

DIVISION OF FISHES  
U. S. NATIONAL MUSEUM

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# FISHERY STATISTICS OF THE UNITED STATES 1964



*STATISTICAL DIGEST NO. 58*

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 58

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FISHERY STATISTICS  
OF THE UNITED STATES

1964

BY

Charles H. Lyles

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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
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
16	Fishery Statistics of the United States, 1944
18	Fishery Statistics of the United States, 1945
19	Fishery Statistics of the United States, 1946
21	Fishery Statistics of the United States, 1947
22	Fishery Statistics of the United States, 1948
25	Fishery Statistics of the United States, 1949
27	Fishery Statistics of the United States, 1950
30	Fishery Statistics of the United States, 1951
34	Fishery Statistics of the United States, 1952
36	Fishery Statistics of the United States, 1953
39	Fishery Statistics of the United States, 1954
41	Fishery Statistics of the United States, 1955
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# FISHERY STATISTICS OF THE UNITED STATES, 1964

CHARLES H. LYLES, Acting Chief, Branch of Fishery Statistics

## Division of Economics

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## ACKNOWLEDGMENTS

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The data in this edition of "Fishery Statistics of the United States" were collected, tabulated, and prepared for publication by the staff of the Branch of Fishery Statistics under the direction of Charles H. Lyles, assisted by Stacey C. Denham, Francis Riley, and B.G. Thompson. Compilation of this report was under the supervision of Mary Louise Kuschwa assisted by Thelma I. Bell. Field surveys were supervised by the various regional and area offices. Project leaders in charge of field surveys were: Dwight L. Hoy, New England, Middle Atlantic and Chesapeake States; George W. Snow, South Atlantic and Gulf States; Victor J. Samson, California; Charles M. Reardon, Washington and Oregon; William K. Evans, Alaska; Howard J. Buettner, Great Lakes and Mississippi River States; and Thomas S. Hida, Hawaii.

The cooperation of the many contributors is gratefully acknowledged. Cooperators are given credit for their information in the section of the report in which the data appear.

## PREFACE

This report contains a review of the fishery statistics for the year 1964 collected by the Branch of Fishery Statistics, Division of Economics. 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.

Data on employment of fishermen, fishing craft and gear in the fisheries, and on the catch of fish, shellfish, etc., are shown for States having commercial fisheries. There is also information on the pack of canned tuna and industrial products for Puerto Rico and American Samoa included in the manufactured products tables. In Section 11, Puerto Rico; catch data are also shown.

In all of the catch tables in this report, except the one on page 30 entitled, "U.S. Catch, 1964 - Live Weight Basis," the volume of fish, crustaceans, and such mollusks as squid is shown in round (live) weight. However, the weights shown for univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) represent the weights of meats, excluding the shell. The weight of shells omitted from the catch in 1964 amounted to about 1.3 billion pounds. It should be noted, however, that the table on page 31 "World Catch of Fish, Crustaceans, Mollusks, Etc., by Countries" is shown on a live weight basis.

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 14 of this publication.

Complete statistical surveys covering the fisheries of the United States were conducted in all areas for 1964. 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 and for 1962 and 1963.

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

U.S. commercial landings of fish, shellfish, and other aquatic products in 1964 were 4.5 billion pounds with a value of \$389.5 million at ex-vessel level. This was 306.5 million pounds less, but \$12.3 million more than in the previous year. There were record landings of blue crabs, king crabs, clams, and yellowtail flounders.

The catch was made by 127,875 fishermen operating 11,808 vessels of 5 net tons or greater and 64,604 motor boats and other boats. Compared with 1963, this was a decrease of 595 fishermen, 120 vessels, and 1,441 boats.

U.S. fishermen took 701.1 million pounds of shellfish valued at \$174.1 million and averaging 25 cents per pound. The value of shellfish exceeded that of fish in 13 of the 18 Atlantic and Gulf coast States.

Disposition of Catch. In 1964, as in the previous year, the catch taken for human food (2.5 billion pounds) exceeded the quantity taken for industrial products (2.0 billion pounds). The latter include the items manufactured into meal, oil, and solubles; used for bait; fed to fur-bearing animals and pets; and manufactured into shell buttons, etc. Bureau of Commercial Fisheries statisticians estimate that the 1964 catch was used as follows: 1,643 million pounds (round weight) as fresh and frozen, 1,033 million for canning, 71 million for cured products, and 1,794 million pounds for manufacture into industrial products.

Per Capita Consumption. The per capita consumption of commercially caught fish and shellfish in the United States was 10.5 pounds (edible weight)--0.1 pound less than in 1963 and 1962.

**PER CAPITA CONSUMPTION OF COMMERCIALY CAUGHT FISH AND SHELLFISH, 1962-64  
(Edible weight)**

<u>Year</u>	<u>Pounds</u>
1962.....	10.6
1963.....	10.6
1964.....	10.5

Vessels. Five hundred and three vessels obtained documents from the Bureau of Customs as fishing craft in 1964. Of this number, 369 (totaling 17,842 gross tons) were built in 1964. An additional 40 vessels (totaling 1,511 gross tons) were constructed in 1963 but were too late to obtain documents in that year and were added to the fleet during 1964.

Of the 369 vessels constructed in 1964, 357 were less than 100 gross tons; 7 ranged from 100 to 199 tons; 3 from 200 to 399 tons; and 2 were over 400 tons. The largest fishing vessel built in 1964 was 806 gross tons. Of the 40 vessels constructed late in 1963, but obtaining documents in 1964, all were less than 90 gross tons.

Of the 79 vessels built prior to 1963 but obtaining documents in 1964, 73 had known ages of 4 to 40 years; the ages of 6 were unknown. These vessels were largely converted from Naval or military craft and had not previously been documented by the Bureau of Customs for commercial trade. Seventy-four of the 79 were less than 100 gross tons; the remaining 5 ranged from 160 to 540 gross tons. The 15 vessels previously documented but removed, for one reason or another, from documentation were almost all under 50 gross tons. Two of these craft, however, were of the 130 and 430 gross-ton class.

## GENERAL REVIEW

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There was a general trend to larger vessels in the shrimp, menhaden, and tuna fisheries. Changes in the shrimp fleet included installation of larger, more powerful engines and electronic devices to aid in fishing and navigation. In addition to the use of larger craft, the menhaden fleet continued to increase its efficiency by installing refrigeration equipment, which permitted vessels to stay out for longer periods and improved the quality of the fish landed.

Principal States. Louisiana again led all other States in volume of catch with 703.6 million pounds--over 15 percent of the entire U.S. catch. California was next with 500.9 million pounds, followed by Alaska with 492.6 million, and Virginia with 465.8 million pounds. Six States (Alaska, California, Louisiana, Massachusetts, Mississippi, and Virginia) accounted for 65 percent of the total U.S. landings. Alaska led all States in ex-vessel value of landings with \$56.0 million, followed by California with \$50.7 million, Massachusetts, \$40.2 million; and Louisiana, \$34.7 million.

Principal Ports. San Pedro, Calif., again led all ports in volume of landings with 341.3 million pounds, followed by Pascagoula, Miss., with 283.6 million; Reedville, Va., 225.5 million; and Empire and Cameron, La., 217.5 and 213.6 million pounds, respectively.

Processed Fishery Products. The value of processed fishery products, \$964.7 million, was 5 percent greater than in 1963. There were increases in breaded shrimp (\$63.4 million), up \$9.9 million; sticks and portions (\$66.5 million), up nearly \$1 million; canned tuna (\$217.6 million), up \$16.0 million; and canned salmon (\$95.8 million), up \$7.8 million. Three species, tuna, shrimp, and salmon, accounted for 53 percent of the value of processed products in 1964.

Menhaden. The catch of menhaden was 1,569,965,000 pounds--245.8 million pounds (14 percent) less than in the previous year. Despite this decline, menhaden accounted for 35 percent of the entire U.S. catch. Reduced catches occurred in the New England, Middle Atlantic, South Atlantic, and Gulf areas. Only in Chesapeake Bay was there an improvement over the previous year. The catch might have been greater in the South Atlantic States but for the stormy weather during the December fishery off North Carolina which curtailed fishing operations to a greater extent than is normal. The storms were so severe that one of the larger vessels was lost while fully loaded with fish.

The catch was made by 183 vessels--4 more than in the previous year. Larger and better equipped vessels, lighter seines, and more refrigeration made the fleet more efficient. Despite a large increase in imports of fish meal, prices remained high throughout the year.

Imports of fish meal and solubles in 1964, were a record 441,889 tons--61,787 tons more than in 1963. The menhaden industry was more concerned with the ability of the resource to withstand continued fishing pressure than with the heavy imports.

Salmon. The catch of salmon in 1964 was 352.3 million pounds valued at \$56.0 million, up 20 percent in volume and 14 percent in value over the previous year. The year was eventful for the salmon industry in many ways--one of the more important events was the completion of 100 years of salmon canning. The Good Friday earthquake in Alaska disrupted plans for the season by damaging shore facilities. The run of red salmon in Bristol Bay was below expectations, and Alaska fishermen sold about 14 million pounds of fresh salmon, mostly pinks, to Japanese freezerships in Prince William Sound. It was an off-year cycle for Puget Sound sockeye. The voters of Oregon rejected by almost 3-to-1 a measure which would have outlawed commercial fishing on the Oregon side of the Columbia River.

## GENERAL REVIEW

Pink salmon were abundant along the Alaska coast for the fourth straight year. This resulted in a buildup in inventories of pink salmon and caused marketing difficulties. Promotional campaigns and reduced prices helped somewhat, though marketing was a problem throughout the year.

Tuna. Landings of tuna by the U.S. fleet at ports in continental United States and Hawaii during 1964 were 305.8 million pounds--down 15.8 million pounds or 5 percent from the previous year. Higher ex-vessel prices for raw tuna were somewhat improved over the previous year, and despite the decreased landings the value was only 2 percent lower. While yellowfin catches were up, catches of albacore, bluefin, and skipjack were less than in 1963. In New England, tuna landings were down 62 percent, with catches of both bluefin and skipjack off sharply.

Despite a decline in catch, the pack of tuna set a new record--17.7 million cases, up 7 percent over the previous year. The increase resulted from gains in landings by U.S. vessels in Puerto Rico, which are not included in domestic catch statistics, and in imports of frozen tuna.

Crabs. Landings of crabs in 1964 again set a record with a total of 270.4 million pounds--18.1 million pounds more than in 1963. The gain was in blue crabs in Maryland, Virginia, and North Carolina, and king crabs in Alaska. While the Alaska Good Friday earthquake damaged king crab shore installations and canning factories, floating equipment was moved in to process the catch. Greater quantities of king crab were frozen while the canned production remained static.

Dungeness crabs continued scarce in Washington, Oregon, and California, and the relatively new fishery in Alaska supplied over one-half the catch.

Blue crabs were taken in record volume in 1964, but the competition with other food products, the increased cost of hand labor to remove the meat, and higher priced raw material continued to plague the industry. The Bureau of Commercial Fisheries, recognizing the importance of mechanizing crab picking, sponsored research to design and build a machine that would satisfactorily remove the meat from the shell with very little hand work.

Shrimp. Shrimp landings were 211.8 million pounds valued at \$70.4 million. Compared with 1963, the volume declined 28.7 million pounds and the value increased slightly.

Shrimp retained its position as the most valuable fishery in the United States. Ex-vessel prices held well, and fishermen had a good year. Inventories of frozen and canned shrimp appeared dangerously high at the beginning of the year, and the industry, with Bureau assistance, put on a well-planned advertising campaign. Stocks were reduced to normal by the end of the year.

Processed shrimp continued to gain in popularity. Peeled and deveined production (26.7 million pounds) increased 2.2 million pounds. Breaded shrimp (91.3 million pounds) was up 15.1 million pounds and \$9.9 million. Both items set new records in quantity and value. Processed shrimp products in 1964 accounted for 17 percent of the total value of all manufactured fishery products, exceeded only by tuna.

U.S. firms continued to expand shrimp vessel and plant operations in the Caribbean area. Most of the catches were unloaded at U.S.-owned plants in countries near the fishing grounds, frozen, and exported to the United States.

## GENERAL REVIEW

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Seizures by foreign countries for alleged violations of territorial waters continued to be a problem for the shrimp industry.

Groundfish. Landings of haddock (133.5 million pounds), the leading species of groundfish, increased 8 percent over the previous year. This was caused principally by vessels shifting from the ocean perch fishery to haddock and other mixed groundfish taken incidental to the haddock catch. Ocean perch landings (89.3 million pounds) declined--principally because of the fleet's shifting emphasis to other species. Scarcity of ocean perch on the usual fishing grounds contributed to the shift. Consumers seemed to prefer other fish and demand for ocean perch lessened. The productivity of the New England fleet increased with the addition of a new stern trawler, Canyon Prince.

Groundfish blocks and slabs for use in the production of fish sticks and portions were imported in record quantities in 1964. A new development was the well-received fish sandwich featured by one of the larger drive-in food chains. The sandwich was made from a portion cut from a fish block.

Flounders. Landings of flounders were 176.4 million pounds valued at \$15.0 million--just short of the 1963 record catch of 176.8 million pounds. In New England, yellowtail (the principal species of flounders taken) reached a record high of 79.2 million pounds. The yellowtail fishery off southern New England has held up well over the past few years and has provided most of the flounders for filleting.

Herring, sea. Catches of sea herring in both the Atlantic (63.7 million pounds) and Pacific (52.2 million) were disappointing in 1964. In Maine, where herring are used for canning sardines, the catch was only 60.9 million pounds--far below the average for the previous decade of 137.3 million pounds. Wide fluctuations in the availability of these fish have created numerous problems for the industry. Imports of canned sardines rose in 1964 to 53.7 million pounds--a gain of 3.6 million compared with 1963.

Mackerel, Pacific and jack. A 2-month tieup of the mackerel fleet at the beginning of the year and a shorter one near the end of the year held the catch to 116.5 million pounds--19.2 million pounds less than in 1963. The catch was made almost entirely off southern California.

Oysters. Landings of oysters (60.5 million pounds) increased slightly over the previous year. Prices remained high, and consumer resistance prevailed. MSX, a mysterious and deadly killer of oysters, continued to plague the northern and middle range of the eastern oyster fishery.

Alewives. Landings of alewives were 55.0 million pounds--down 7.5 million pounds from the previous year. This fish is decreasing in popularity as a food item, and considerable quantities are used for pet food and reduction to meal and oil. The roe is still in demand, however, and is salted, canned, and sold fresh.

Halibut. U.S. landings of halibut, 26.3 million pounds (dressed weight), were 23 percent less than in 1963. Because of higher prices, the \$5.9 million paid fishermen for the catch was down only 14 percent. The principal reason for the decline was a scarcity of fish which caused a number of halibut vessels to shift to salmon, sablefish, and crab fishing. The number of Canadian halibut vessels was less than in 1963, but this was offset somewhat by the addition of several new and larger vessels. Canadian fishermen took 33.6 million pounds (dressed weight) of halibut in 1964--10 percent less than in 1963.

The season was, for the most part, a disappointment and quotas for some of the areas were not filled.

## GENERAL REVIEW

Whales. The six vessels in the whale fishery landed their catches at two whaling stations in California and one in Oregon. There were 274 whales taken--15 more than in the previous year.

Lobsters. Landings of northern lobsters were 31.0 million pounds--up 684,000 pounds from the previous year. The value increased from \$16.8 million in 1963 to \$19.9 million in 1964; and the average price per pound went from 55 cents in 1963 to 64 cents in 1964. In recent years, in an effort to supply the steadily increasing market demand for lobsters, an otter trawl fishery has grown up along the Continental shelf of the New England and Middle Atlantic coasts. The light catches, however, have failed to keep pace with the rising demand.

Scallops, sea. Landings of sea scallop meats were 16.9 million pounds valued at \$9.2 million. The volume was 3.0 million pounds less than in 1963, but the value remained about the same. The Canadian fleet continued to fish the Georges Bank stocks and export most of the catches to the United States. Imports of scallops from Canada set a record with 15.5 million pounds.

Fishery Imports. Both the volume and value of imported fishery products reached new highs in 1964, chiefly because of record receipts of fresh herring, frozen tuna and groundfish blocks or slabs, and fish meal. The expanding fish meal industry in Peru provided the bulk of the gain in fish meal imports, which increased the U.S. supply of meal despite a sharp decline in the domestic production.

Scallops continued to enter the country in record quantities in 1964, providing 46 percent of the total supply compared with 8 percent in 1955.

Shrimp was imported in increasing quantities--169.5 million pounds (heads-off), 56 percent of the total 1964 U.S. supply. Comparative figures for 1950 were 40.2 million pounds--26 percent of the supply.

Imports of fresh and frozen tuna also set a new record. The pack from imported fish--186.1 million pounds--was 53 percent of the canned production. In 1950, the pack from imported fish was only 20.8 million pounds--12 percent.

There were record imports of groundfish and Atlantic ocean perch fillets (including blocks)--246.6 million pounds in 1964 compared with 231.8 million in 1963. U.S. production has declined steadily from the record 148.8 million pounds in 1951 (63 percent of the combined domestic production and imports) to 75.2 million in 1964--only 23 percent of the supply.

U.S. Supply. A record 7.5 billion pounds of imported fishery products (live-weight basis), added to the domestic catch of 4.5 billion pounds, brought the total supply to a peak of 12.0 billion pounds. Imports were 62 percent of the total. The domestic catch (4.5 billion pounds) was about 500.0 million pounds less than the 1960-64 average. Domestic edible fish and shellfish declined to 2.5 billion pounds--the lowest since 1961--and only 51 percent of the total supply of edible fishery products.

World Catch. In 1964, the world catch of fish, crustaceans, mollusks, etc., was a record 113.8 billion pounds--11.5 billion pounds more than in 1963. Peru, for the third consecutive year, was world leader in volume. The United States remained in fifth place.

Detailed summaries of the catch and operating unit data for the United States have been previously published in Current Fishery Statistics No. 4098.

Summaries of operating unit and catch statistics for each region of the United States have been published in the Current Fishery Statistics series of bulletins. "Fisheries of the United States," a preliminary review available each April, 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 from the Office of Information, U.S. Fish and Wildlife Service, Washington, D.C. 20240.

# GENERAL REVIEW

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## CATCH OF FISH AND SHELLFISH, 1945-64

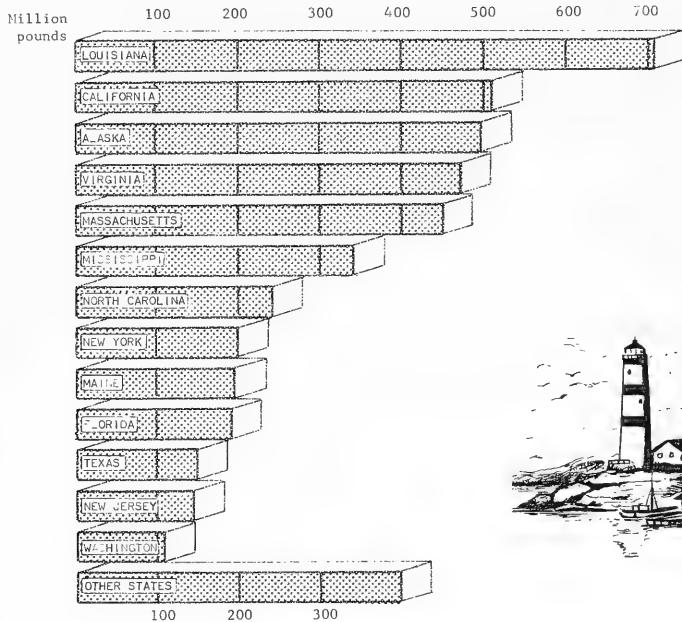
(ROUND WEIGHT BASIS)

YEAR	CATCH FOR HUMAN FOOD	CATCH FOR INDUSTRIAL PRODUCTS 1/	TOTAL		AVERAGE PRICE PER POUND
	MILLION POUNDS	MILLION POUNDS	MILLION POUNDS	MILLION DOLLARS	CENTS
1945	3,167	1,431	4,598	270	5.67
1946	3,049	1,418	4,467	313	7.01
1947	3,020	1,329	4,349	312	7.16
1948	3,146	1,367	4,513	371	8.22
1949	3,305	1,499	4,804	343	7.13
1950	3,307	1,594	4,901	347	7.09
1951	3,048	1,385	4,433	365	8.23
1952	2,778	1,654	4,432	364	8.20
1953	2,519	1,968	4,457	356	7.94
1954	2,705	2,057	4,762	359	7.55
1955	2,579	2,230	4,809	339	7.05
1956	2,690	2,578	5,268	372	7.06
1957	2,475	2,314	4,789	354	7.39
1958	2,451	2,096	4,747	373	7.56
1959	2,369	2,753	5,122	345	6.76
1960	2,498	2,444	4,942	354	7.15
1961	2,490	2,697	5,187	362	6.98
1962	2,540	2,614	5,354	396	7.40
1963	2,556	2,291	4,847	377	7.78
1964	2,497	2,044	4,541	369	8.57

1/ MANUFACTURED INTO MEAL, OIL, FISH SOLUBLES, HOMOGENIZED CONDENSED FISH, SHELL PRODUCTS, AND USED AS BAIT AND ANIMAL FOOD.

NOTE: --DOES NOT INCLUDE DATA ON THE HAWAII CATCH PRIOR TO 1948.

### RELATIVE VOLUME OF THE CATCH BY STATES, 1964



# GENERAL REVIEW

## SUMMARY OF CATCH, 1964

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

REGION	FISH		SHELLFISH, ETC.		WHALE PRODUCTS		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND . . . . .	621	34	61	34	-	-	642	68
MIDDLE ATLANTIC . . . . .	315	9	55	12	-	-	370	21
CHESAPEAKE . . . . .	424	10	113	26	-	-	537	36
SOUTH ATLANTIC . . . . .	261	9	75	12	-	-	336	21
GULF . . . . .	1,085	26	233	73	-	-	1,318	99
PACIFIC . . . . .	965	111	153	17	11	1	1,152	129
GREAT LAKES . . . . .	57	5	-	-	-	-	57	5
MISSISSIPPI RIVER AND TRIBUTARIES . . . . .	66	6	11	1	-	-	77	7
HAWAII . . . . .	12	3	(1)	(1)	-	-	12	3
TOTAL . . . . .	3,829	213	701	175	11	1	4,541	369

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

## SUMMARY OF OPERATING UNITS, 1964

ITEM	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF		
						NUMBER	NUMBER
FISHERMEN:							
ON VESSELS . . . . .	4,058	2,990	3,898	3,442	11,744		
ON BOATS AND SHORE . . . . .	17,136	6,128	14,656	7,839	13,427		
TOTAL . . . . .	20,194	9,118	18,554	11,201	25,171		
VESSELS:							
MOTOR . . . . .	721	608	1,184	1,108	3,582		
GROSS TONNAGE . . . . .	47,084	33,293	27,822	42,230	151,665		
SAIL . . . . .	-	-	61	-	-		
GROSS TONNAGE . . . . .	-	-	657	-	-		
TOTAL VESSELS . . . . .	721	608	1,245	1,108	3,582		
TOTAL GROSS TONNAGE . . . . .	47,084	33,293	28,509	42,230	151,665		
BOATS:							
MOTOR . . . . .	10,128	4,015	9,947	5,297	10,149		
OTHER . . . . .	405	299	996	704	595		
GEAR:							
HAUL SEINES . . . . .	20	78	286	112	114		
STOP NETS AND SEINES . . . . .	123	4	-	-	-		
PURSE SEINES AND LAMPARA NETS:							
HERRING . . . . .	6	-	-	-	-		
MACKEREL AND SARDINE . . . . .	11	-	-	-	-		
MENHADEN . . . . .	-	57	41	63	76		
DOLPHIN . . . . .	8	6	5	-	-		
OTTER . . . . .	3	24	-	2	6		
BAG NETS . . . . .	15	-	-	33	-		
BEAM TRAWLS . . . . .	-	3	-	-	-		
OTTER TRAWLS:							
CRAB . . . . .	-	-	-	432	5		
FISH . . . . .	593	337	83	96	123		
LOBSTER . . . . .	36	39	-	-	-		
SHRIMP . . . . .	20	-	-	2,214	9,176		
WEIRS . . . . .	75	5	-	-	-		
POUND NETS . . . . .	50	147	3,996	613	40		
FLOATING TRAPS . . . . .	44	-	-	-	-		
FISHED HOOP NETS . . . . .	5	277	1,206	400	11,539		
POTS AND TRAPS:							
CONCH . . . . .	939	50	-	-	-		
CRAB . . . . .	1,902	6,074	184,595	69,030	91,119		
CRAWFISH . . . . .	-	-	-	-	-		
EEL . . . . .	1,010	1,363	7,757	750	6,980		
FISH . . . . .	-	20,104	4,646	15,461	660		
LOBSTER . . . . .	894,653	9,580	-	40,100	73,553		
TURTLE . . . . .	-	129	523	80	-		
BOX TRAPS . . . . .	5	-	-	-	-		
SLAT TRAPS . . . . .	-	-	2	-	-		
GILL NETS:							
ANCHOR, SET OR STAKE . . . . .	30	144	2,598	2,463	256		
DRIFT . . . . .	63	99	1,108	596	14		
RUNAROUND . . . . .	-	29	-	432	1,123		

(CONTINUED ON NEXT PAGE)

# GENERAL REVIEW

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## SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
TRAMMEL NETS . . . . .	-	-	-	11	634
HOOKS AND BAITS . . . . .	541,954	190,674	930,230	1,244,368	1,239,736
DIP NETS . . . . .	387	-	374	1,970	29,295
PUSH NETS . . . . .	-	5	-	-	-
CAST NETS . . . . .	-	-	-	19	21
HARPOONS . . . . .	68	8	-	-	-
SPARERS . . . . .	12	18	-	125	268
SCRAPES . . . . .	-	-	579	-	-
DREDGES:					
CLAM . . . . .	78	113	247	21	-
CRAB . . . . .	-	24	366	-	-
MUSSEL . . . . .	3	1	-	-	-
OYSTER . . . . .	41	110	631	164	1,381
SCALLOP . . . . .	1,345	1,760	4	80	57
OTHER . . . . .	-	8	-	-	-
TONGS AND OYSTER GRABS . . . . .	1,109	2,984	8,198	374	2,516
RAKES . . . . .	1,738	2,379	545	269	1
HOES . . . . .	3,133	14	-	-	-
FORKS . . . . .	22	-	-	-	-
BRUSH TRAPS . . . . .	-	-	-	-	26,275
GRABS, FROG . . . . .	-	-	-	-	46
HOOKS, SPONGE . . . . .	-	-	-	3	46
DIVING OUTFITS . . . . .	83	-	-	-	12
ITEM	PACIFIC	GREAT LAKES	MISSISSIPPI RIVER AND TRIBUTARIES	HAWAII	TOTAL, EXCLUDING OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS . . . . .	15,767	836	12	233	40,705
ON BOATS AND SHORE . . . . .	17,332	1,697	9,445	510	87,160
TOTAL . . . . .	33,099	2,533	9,457	743	127,875
VESSELS:					
MOTOR . . . . .	4,567	1/ 366	1/ 4	57	11,747
GROSS TONNAGE . . . . .	141,188	7,099	55	1,722	414,651
SAIL . . . . .	-	-	-	-	61
GROSS TONNAGE . . . . .	-	-	-	-	687
TOTAL VESSELS . . . . .	4,567	1/ 356	1/ 4	57	11,608
TOTAL GROSS TONNAGE . . . . .	141,188	7,099	65	1,722	415,338
BOATS:					
MOTOR . . . . .	13,276	1,089	7,929	350	60,945
OTHER . . . . .	267	89	248	24	3,659
GEAR:					
HAUL SEINES . . . . .	119	91	253	(2)	1,054
STOP NETS AND SEINES . . . . .	-	-	-	-	123
PURSE SEINES AND LAMPARA NETS:					
ANCHOVY . . . . .	24	-	-	-	24
HERRING . . . . .	19	-	-	-	25
MACKEREL AND SARDINE . . . . .	84	-	-	-	95
MENHADEN . . . . .	-	-	-	-	183
SalMON . . . . .	1,439	-	-	-	1,439
SQUID . . . . .	21	-	-	-	21
TUNA . . . . .	105	-	-	-	116
OTHER . . . . .	12	-	-	-	47
BAG NETS . . . . .	-	-	-	(2)	48
BEAM TRAWLS . . . . .	20	-	-	-	23
OTTER TRAWLS:					
CRAB . . . . .	-	-	-	-	437
FISH . . . . .	225	17	6	-	1,479
LOBSTER . . . . .	-	-	-	-	75
SHRIMP . . . . .	40	-	-	-	11,094
WEIRS . . . . .	1	-	55	-	135
POUND NETS . . . . .	4	308	17	-	5,175
TRAP NETS . . . . .	-	1,664	164	-	1,828
FLOATING TRAPS . . . . .	4	-	-	-	48
FYKE AND HOOP NETS . . . . .	-	455	57,435	-	71,245
POTS AND TRAPS:					
CONCH . . . . .	-	-	-	-	909
CRAB . . . . .	112,829	-	-	(2)	465,549
CRAWFISH . . . . .	275	-	20,960	-	21,255

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GENERAL REVIEW

## SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	PACIFIC	GREAT LAKES	MISSISSIPPI RIVER AND TRIBUTARIES	HAWAII	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
<b>GEAR - CONTINUED:</b>					
POTS AND TRAPS - CONTINUED:					
EEL . . . . .	-	-	-	{2}	19,860
FISH . . . . .	50	-	4,413	{2}	45,094
LOBSTER . . . . .	13,015	-	-	{2}	1,030,901
OCTOPUS . . . . .	230	-	-	{2}	230
SHRIMP . . . . .	250	-	560	-	810
TURTLE . . . . .	-	-	-	-	732
BOX TRAPS . . . . .	-	-	-	-	5
WIRE BASKETS . . . . .	-	-	2,548	-	2,548
SLAT TRAPS . . . . .	-	-	-	-	2
GILL NETS:					
ANCHOR, SET OR STAKE . . . . .	3,002	1,501	7,100	{2}	17,414
DRIFT . . . . .	5,087	-	-	-	6,997
GROUND . . . . .	-	-	-	-	1,604
TRAMMER NETS . . . . .	31	-	4,025	-	4,701
HOOKS AND BAITS . . . . .	900,893	84,701	4,182,632	{2}	9,294,190
DIP NETS . . . . .	174	4	572	-	32,762
BRAIL OR SCOOP NETS . . . . .	85	-	-	-	85
LIFT NETS . . . . .	-	-	-	{2}	-
REEF NETS . . . . .	63	-	-	-	63
PUSH NETS . . . . .	-	-	-	-	6
WHEELS . . . . .	6	-	-	-	6
CAST NETS . . . . .	-	-	-	{2}	40
HANDOONS . . . . .	16	-	-	-	92
SPEARS . . . . .	-	-	-	{2}	423
SCRAMS . . . . .	-	-	-	-	579
DREDGES:					
CLAM . . . . .	4	-	-	-	463
CRAB . . . . .	-	-	-	-	390
MUSSEL . . . . .	-	-	-	-	4
OYSTER . . . . .	81	-	-	-	2,408
SCALLOP . . . . .	-	-	-	-	3,266
OTHER . . . . .	-	-	-	-	8
TONGS AND OYSTER GRABS . . . . .	39	-	-	-	15,220
RAKES . . . . .	-	-	-	-	4,932
HOGS . . . . .	-	-	-	-	3,147
FORKS . . . . .	-	-	-	-	22
SHOVELS . . . . .	1,050	-	-	-	1,050
BRUSH TRAPS . . . . .	-	-	-	-	28,275
CROWFOOT BARS . . . . .	-	-	987	-	987
GRABS, FROG . . . . .	-	-	198	-	244
HOOKS, SPONGE . . . . .	-	-	-	-	49
DIVING OUTFITS . . . . .	150	-	-	-	245

1/ DATA ON THE 4 VESSELS OPERATED IN LAKE WINNEBAGO ARE INCLUDED IN MISSISSIPPI RIVER AND TRIBUTARIES.

2/ DATA ON THE NUMBER OF GEAR OPERATED IN HAWAII ARE NOT AVAILABLE.

## VESSELS OBTAINING DOCUMENTS AS FISHING CRAFT, 1955-64

YEAR	FIRST DOCUMENTATION	REDOCUMENTATION		TOTAL
		NUMBER	NUMBER	
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
1962 . . . . .	352	16	-	368
1963 . . . . .	569	21	-	590
1964 . . . . .	468	15	-	503

# GENERAL REVIEW

## U.S. CATCH BY WATERS, FISHERMEN, CRAFT, PLANTS AND EMPLOYMENT, BY STATES, 1964

STATE	MARINE WATERS AND COASTAL RIVERS		LAKES 1/		MISSISSIPPI RIVER AND TRIBUTARIES		TOTAL		FISHING	CRAFT	WHOLESALE AND MANUFACTURING	AVERAGE FOR YEAR
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	PLANTS	BOATS	EMPLOYEES	
ALABAMA . . . . .	15,057	3,975	-	-	4,579	829	19,646	4,804	2,267	1,211	1,216	727
ALASKA . . . . .	492,614	56,016	-	-	492,614	56,016	17,136	2,030	6,240	173	7,648	2,500
ARIZONA . . . . .	-	-	-	-	2	2	(2)	(2)	1	50	40	68
ARKANSAS . . . . .	503,866	50,559	4,031	495	4,031	495	50,559	6,059	1,508	9,411	7,126	9,411
CALIFORNIA . . . . .	1,045	1,113	168	27	1,045	168	(2)	(2)	1,255	-	70	70
CONNECTICUT . . . . .	433	684	1,251	-	433	684	1,113	631	34	210	505	310
DELAWARE . . . . .	33,839	29,496	9,036	1,291	-	-	33,839	8,631	5,266	448	5,710	4,712
FLORIDA . . . . .	177,950	2,973	-	-	187,016	30,767	11,231	1,493	5,266	448	5,710	2,034
GEORGIA . . . . .	12,338	2,848	-	-	18,338	29,793	1,740	1,393	6,677	54	2,775	2,75
HAWAII . . . . .	12,685	-	-	-	12,685	2,646	1,231	1,231	57	374	17	327
IDAHO . . . . .	-	-	645	112	1,231	66	1,231	(2)	5	496	93	-
ILLINOIS . . . . .	-	-	645	112	6,776	633	7,421	607	5	496	1,055	889
INDIANA . . . . .	-	-	11	2	6,840	130	1,851	132	189	-	16	109
IOWA . . . . .	-	-	-	-	3,737	300	3,737	300	52	54	33	402
KANSAS . . . . .	-	-	-	-	1,39	111	1,416	139	13	5	61	59
KENTUCKY . . . . .	-	-	-	-	1,446	203	1,416	201	16	125	125	126
Louisiana . . . . .	695,140	23,595	-	-	7,444	1,099	703,564	34,684	1,602	5,808	227	5,421
Maine . . . . .	192,575	21,050	-	-	192,575	21,050	192,575	21,050	6,140	5,140	2,613	2,613
MARYLAND . . . . .	76,128	11,172	-	-	76,128	11,172	76,128	11,172	5,221	272	5,216	5,216
MASSACHUSETTS . . . . .	446,495	40,184	19,769	2,552	446,495	40,184	446,495	40,184	5,321	5,321	5,042	4,385
MICHIGAN . . . . .	-	-	5,199	90	11,147	723	1,296	2,522	9,347	3,304	234	5,006
MINNESOTA . . . . .	-	-	-	-	2,796	326	1,296	2,522	213	568	637	459
MISSISSIPPI . . . . .	-	-	8,045	-	353	46	9,635	9,635	5,422	26	270	155
MISSOURI . . . . .	-	-	-	-	237	15	3,687	3,687	5,915	80	1,607	1,244
NEBRASKA . . . . .	-	-	-	-	281	33	237	15	-	267	36	234
NEW HAMPSHIRE . . . . .	1,209	501	-	-	1,209	501	1,209	501	136	5	117	97
NEW JERSEY . . . . .	139,269	9,423	-	-	139,302	9,423	9,423	9,423	1,194	112	2,383	1,886
NEW MEXICO . . . . .	197,022	10,790	446	90	59	16	197,022	10,790	3,597	330	3,519	3,293
NORTH CAROLINA . . . . .	236,579	8,023	-	-	238,579	6,023	6,023	6,023	2,661	161	2,582	1,242
NORTH DAKOTA . . . . .	-	-	-	-	468	33	11,230	1,006	504	25	25	16
OHIO . . . . .	-	-	-	-	11,230	1,006	6,99	87	1,067	62	246	428
OKLAHOMA . . . . .	-	-	-	-	-	-	57,206	7,030	2,549	134	2,257	1,540
OREGON . . . . .	57,206	7,030	-	-	91	-	1,209	501	992	623	992	60
PENNSYLVANIA . . . . .	-	-	-	-	-	-	30,928	3,740	3,597	344	1,210	691
RHODE ISLAND . . . . .	36,928	3,740	-	-	-	-	21,723	3,208	1,670	1,129	30	328
SOUTH CAROLINA . . . . .	21,723	3,001	-	-	-	-	9,756	1,448	1,521	624	987	56
TEXAS . . . . .	-	-	-	-	-	-	1,448	9,655	1,188	185	1,253	1,126
VERMONT . . . . .	-	-	-	-	-	-	1,051	1,233	1,227	1,227	1,227	1,032
UTAH . . . . .	-	-	-	-	-	-	2,900	1,441	29,151	1,793	1,793	1,342
VERMONT . . . . .	-	-	-	-	-	-	1,441	1,441	1,441	1,441	1,441	1,342
WISCONSIN . . . . .	100,924	15,632	-	-	16,570	1,505	12,520	690	31,090	2,195	1,289	1,660
WYOMING . . . . .	-	-	-	-	-	-	1,563	1,563	1,563	1,563	1,563	1,262
TOTAL . . . . .	4,397,766	375,252	65,723	16,570	1,505	12,520	77,131	7,393	4,500,622	369,496	2	5,210
1/ INCLUDES THE CATCH OF THE GREAT LAKES, THE INTERNATIONAL LAKES OF MINNESOTA, AND THE INLAND LAKES OF FLORIDA. 2/ DATA NOT AVAILABLE. 3/ EXCLUSIVE OF DUPLICATION.												

# GENERAL REVIEW

## SUMMARY OF U. S. FISHING VESSELS, BY TONNAGE GROUPS, 1964

GROSS TONNAGE	NEW ENGLAND	MIDDLE ATLANTIC	CHESA- PEAKE 1/	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES 2/	HAWAII	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
5 - 9	36	51	758	218	222	929	65	1	2,272
10 - 19	127	139	278	247	819	1,873	195	15	3,665
20 - 29	89	93	65	155	452	667	60	17	1,574
30 - 39	80	71	27	170	451	374	27	10	1,130
40 - 49	57	53	14	138	429	267	20	8	899
50 - 59	46	42	13	59	293	109	2	4	521
60 - 69	44	30	6	42	552	54	-	1	697
70 - 79	46	31	15	13	218	36	1	1	326
80 - 89	22	8	3	3	49	32	-	-	112
90 - 99	22	1	2	2	11	26	-	-	63
100 - 109	16	5	2	1	6	20	-	-	46
110 - 119	32	14	6	1	2	16	-	-	60
120 - 129	14	4	4	3	2	16	-	-	36
130 - 139	12	1	2	-	2	11	-	-	27
140 - 149	10	5	7	3	6	7	-	-	29
150 - 159	14	3	3	-	1	2	-	-	19
160 - 169	8	1	1	-	6	11	-	-	27
170 - 179	6	5	1	1	5	3	-	-	20
180 - 189	3	4	3	2	7	9	-	-	25
190 - 199	5	29	12	17	13	16	-	-	66
200 - 209	1	-	-	-	-	-	-	-	1
210 - 219	3	-	-	-	3	2	-	-	8
220 - 229	3	4	1	3	5	1	-	-	14
230 - 239	3	3	1	2	4	2	-	-	12
240 - 249	3	-	2	4	1	-	-	-	9
250 - 259	2	-	1	5	7	3	2	-	15
260 - 269	3	1	5	4	3	3	-	-	16
270 - 279	-	-	-	-	-	-	5	-	5
280 - 289	-	2	1	2	-	1	-	-	4
290 - 299	2	1	1	2	1	3	-	-	7
300 - 309	2	2	-	2	-	2	-	-	6
310 - 319	2	2	-	1	3	4	-	-	10
320 - 329	-	-	1	1	1	2	-	-	6
330 - 339	-	-	-	-	-	2	-	-	2
340 - 349	-	-	-	-	-	4	-	-	4
350 - 359	-	-	-	-	-	6	-	-	6
360 - 369	-	-	-	-	-	5	-	-	5
370 - 379	-	-	1	1	-	2	-	-	3
380 - 389	-	1	1	-	-	3	-	-	3
390 - 399	-	-	-	-	-	2	-	-	2
400 - 409	-	-	-	-	-	1	-	-	1
410 - 419	-	-	-	-	-	3	-	-	4
420 - 429	-	-	-	-	-	2	-	-	2
430 - 439	-	-	-	-	-	4	-	-	4
440 - 449	-	1	-	-	-	3	-	-	3
450 - 459	-	2	-	-	1	2	-	-	4
460 - 469	-	-	-	-	1	2	-	-	3
470 - 479	-	-	-	-	5	12	-	-	17
480 - 489	-	-	1	-	2	2	-	-	5
490 - 499	-	-	-	-	-	1	-	-	1
520 - 529	-	-	-	-	-	1	-	-	1
530 - 539	1	1	1	1	1	-	-	-	1
540 - 549	-	-	1	1	-	1	-	-	1
560 - 569	-	-	-	-	-	1	-	-	1
600 - 609	-	-	-	-	1	-	-	-	1
610 - 619	-	-	-	-	1	-	-	-	1
630 - 639	-	-	-	-	-	1	-	-	1
640 - 649	-	-	-	-	1	-	-	-	1
660 - 669	-	-	1	-	-	-	-	-	1
720 - 729	-	-	-	-	-	1	-	-	1
800 - 809	-	-	-	-	-	1	-	-	1
810 - 819	-	-	-	-	-	1	-	-	1
TOTAL VESSELS . . .	721	608	1,245	1,108	3,582	4,567	390	57	11,808
TOTAL GROSS TONNAGE . . .	47,084	33,293	26,509	42,230	151,665	141,188	7,154	1,722	415,338

1/ INCLUDES SAILING VESSELS.

2/ INCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.

# GENERAL REVIEW

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## LENGTH DISTRIBUTION OF U. S. FISHING VESSELS, 1964

LENGTH IN FEET	NEW ENGLAND	MIDDLE ATLANTIC	CHESA- PEAKE 1/	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES 2/	HAWAII	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
22,	-	-	-	-	-	1	-	-	1
23,	-	1	-	-	-	-	-	-	1
24,	-	-	-	2	1	-	-	-	3
25,	-	-	-	1	1	2	3	-	10
26,	-	-	-	10	5	19	5	-	40
27,	1	-	-	10	5	65	5	-	86
28,	4	6	2	16	8	259	9	-	314
29,	5	4	-	10	18	205	8	-	250
30,	7	7	-	21	26	196	9	-	266
31,	4	1	5	27	33	278	11	-	357
32,	10	12	13	42	50	201	32	-	356
33,	14	6	44	35	60	247	23	-	437
34,	16	14	73	33	64	219	29	-	451
35,	11	9	109	39	66	207	19	-	460
36,	14	19	114	46	78	240	36	-	544
37,	15	12	156	51	93	220	40	-	583
38,	10	22	122	49	88	185	19	-	493
39,	12	26	94	33	84	168	26	2	441
40,	11	16	84	29	74	149	10	4	374
41,	10	12	45	37	94	134	10	1	337
42,	9	10	35	29	82	125	10	-	299
43,	9	20	25	30	89	127	11	2	304
44,	11	14	20	41	96	100	5	1	293
45,	12	9	24	29	102	96	10	-	274
46,	16	13	17	26	98	66	8	2	232
47,	18	10	18	31	86	67	11	1	232
48,	10	5	5	35	124	75	7	3	249
49,	9	12	15	31	112	234	5	1	404
50,	12	11	14	46	136	36	5	4	247
51,	16	17	10	43	143	30	3	1	232
52,	9	8	17	13	86	19	4	2	148
53,	9	10	5	20	115	25	1	-	174
54,	10	11	7	22	77	19	-	2	132
55,	16	11	14	26	141	16	-	2	206
56,	23	15	7	11	117	233	1	1	196
57,	15	10	13	10	46	15	1	1	100
58,	14	21	11	24	137	23	2	1	212
59,	7	6	5	5	102	42	-	1	164
60,	11	12	5	5	67	30	-	1	126
61,	16	27	7	31	327	20	-	1	403
62,	6	11	5	6	98	25	-	1	146
63,	8	7	2	4	43	13	-	-	75
64,	9	7	1	3	44	11	1	-	123
65,	8	4	2	3	57	19	-	2	45
66,	9	3	1	3	12	15	-	2	38
67,	5	4	1	1	19	8	-	-	40
68,	4	6	-	1	21	6	-	2	37
69,	15	1	1	9	9	9	-	-	26
70,	16	7	2	3	8	14	-	1	43
71,	8	6	2	3	10	13	-	3	39
72,	18	5	1	1	-	11	-	4	35
73,	10	5	-	2	1	6	-	1	23
74,	7	5	-	1	3	3	-	-	18
75,	9	-	-	1	3	19	-	-	32
76,	6	5	2	1	1	4	-	1	16
77,	6	5	-	1	2	6	-	-	22
78,	5	1	1	-	2	13	-	-	22
79,	11	6	4	-	-	12	-	-	26
80,	6	2	-	3	3	6	-	1	20
81,	3	-	-	2	2	5	-	-	10
82,	3	1	1	-	-	10	-	-	13
83,	7	1	1	-	-	2	-	-	10
84,	8	1	-	-	-	3	-	-	12
85,	15	6	4	1	1	2	-	-	23
86,	5	-	-	-	-	2	-	-	8
87,	4	-	-	-	-	4	-	-	13
88,	11	2	1	-	-	1	-	-	18
89,	12	1	1	-	-	5	-	-	18

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

## GENERAL REVIEW

## LENGTH DISTRIBUTION OF U. S. FISHING VESSELS, 1964 - Continued

LENGTH IN FEET	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE <sup>1/</sup>	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES <sup>2/</sup>	HAWAII	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
90	7	25	2	-	3	4	-	-	15
91	4	-	1	1	2	-	-	-	9
92	10	4	2	-	1	-	-	-	11
93	-	-	-	-	-	-	-	-	1
94	-	-	-	-	1	-	-	-	9
95	-	-	-	-	2	-	1	-	6
96	-	1	1	-	-	-	1	-	7
97	2	-	-	-	-	-	-	-	3
98	2	-	-	-	-	-	-	-	2
99	1	1	1	1	-	-	1	-	2
100	2	1	-	1	2	4	-	-	5
101	2	2	-	1	-	2	-	-	6
102	8	-	1	-	1	-	-	-	5
103	3	-	-	-	-	-	-	-	10
104	8	8	5	1	2	-	-	-	16
105	3	3	2	1	8	-	-	-	12
106	3	3	1	-	-	-	3	-	8
107	-	3	3	1	-	2	2	-	9
108	-	1	-	-	1	-	1	-	1
109	1	1	-	-	2	-	-	-	5
110	1	-	-	-	-	-	1	-	2
111	-	-	1	-	2	2	-	-	3
112	-	1	-	1	-	-	1	-	4
113	-	-	2	1	-	-	5	-	2
114	-	5	-	-	-	-	3	-	10
115	-	-	-	-	-	-	1	-	3
116	-	1	3	1	1	-	11	-	5
117	-	-	1	1	-	-	7	-	12
118	2	1	1	-	-	1	10	-	11
119	3	-	-	-	-	-	-	-	12
120	-	5	2	-	1	-	-	-	9
121	-	3	1	-	1	-	3	-	7
122	-	-	2	1	-	-	-	-	4
123	-	-	-	-	-	-	1	-	1
124	2	2	3	1	8	3	-	-	16
125	1	7	8	11	8	8	3	-	26
126	1	2	6	8	3	8	2	-	16
127	-	2	3	3	-	-	2	-	7
128	-	1	1	-	-	-	1	-	3
129	-	1	1	-	-	2	-	-	4
130	-	11	2	5	1	2	-	-	15
131	3	-	1	-	-	1	1	-	6
132	-	3	-	1	-	-	2	-	2
133	-	3	-	-	-	-	1	-	5
134	-	3	-	1	1	3	-	1	5
135	-	-	-	-	-	-	1	-	3
136	-	-	-	-	-	-	-	-	1
137	1	-	-	-	-	-	-	-	1
138	-	-	1	1	-	-	-	-	1
139	-	-	1	1	2	3	-	-	5
140	-	4	-	4	1	-	-	-	5
141	-	1	-	1	2	-	-	-	3
142	-	1	1	3	-	-	-	-	5
143	-	-	-	-	-	-	-	-	1
144	-	4	1	5	3	-	-	-	6
145	-	3	-	3	-	-	-	-	3
146	-	-	-	-	-	-	-	-	3
147	-	-	-	-	-	-	-	-	3
150	-	-	-	-	6	-	-	-	6
152	-	-	-	1	1	1	-	-	2
153	-	-	-	-	1	1	-	-	2
155	-	-	1	-	-	1	-	-	2
160	-	-	-	-	-	-	-	-	2
166	1	1	2	2	2	-	-	-	2
169	-	-	-	-	-	-	1	-	1
171	-	-	-	-	-	-	1	-	1
172	-	-	-	-	-	-	1	-	1
173	-	-	-	-	1	-	-	-	1
194	-	-	-	-	1	-	-	-	1
195	-	-	-	-	1	-	-	-	1
TOTAL . . . . .	721	608	1,245	1,108	3,582	4,567	390	57	11,808

<sup>1/</sup> INCLUDES SAILING VESSELS.<sup>2/</sup> INCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.

# GENERAL REVIEW

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## AGE DISTRIBUTION OF U. S. VESSELS ENGAGED IN COMMERCIAL FISHING, 1865-1964

YEAR BUILT	NEW ENGLAND	MIDDLE ATLANTIC	CHESA- PEAKE <sup>1/</sup>	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES <sup>2/</sup>	HAWAII	TOTAL, EX- CLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
1865 . . . . .	-	-	-	-	1	-	-	-	1
1872 . . . . .	-	1	-	-	-	-	-	-	1
1873 . . . . .	-	1	-	-	-	-	-	-	1
1875 . . . . .	1	1	1	-	-	-	-	-	1
1876 . . . . .	-	3	-	-	-	-	-	-	3
1877 . . . . .	-	-	1	-	-	-	-	-	1
1882 . . . . .	-	-	2	-	-	-	-	-	2
1883 . . . . .	-	2	1	-	-	-	-	-	3
1884 . . . . .	1	1	1	-	-	-	-	-	4
1886 . . . . .	-	1	1	-	-	-	-	-	2
1887 . . . . .	-	2	-	-	-	1	-	-	3
1888 . . . . .	-	1	-	-	1	1	-	-	3
1889 . . . . .	-	-	2	-	-	-	-	-	2
1890 . . . . .	-	-	1	-	-	-	-	-	1
1891 . . . . .	-	-	-	-	1	-	-	-	1
1892 . . . . .	-	-	1	-	1	-	-	-	2
1893 . . . . .	-	1	2	-	1	-	1	-	5
1894 . . . . .	-	-	-	-	1	1	-	-	2
1895 . . . . .	-	-	3	-	-	-	-	-	5
1896 . . . . .	-	-	2	-	1	-	-	-	2
1897 . . . . .	-	-	2	-	-	-	-	-	2
1898 . . . . .	-	-	2	-	-	-	-	-	3
1899 . . . . .	-	1	2	1	-	-	-	-	4
1900 . . . . .	1	2	3	1	3	2	-	-	11
1901 . . . . .	1	4	11	1	3	1	-	-	21
1902 . . . . .	3	4	4	-	-	2	-	-	12
1903 . . . . .	2	3	3	1	4	2	-	-	15
1904 . . . . .	1	2	8	-	3	-	-	-	14
1905 . . . . .	-	3	5	6	8	2	-	-	19
1906 . . . . .	2	7	5	-	4	2	-	-	20
1907 . . . . .	2	3	3	3	1	13	-	-	22
1908 . . . . .	-	1	5	5	-	7	-	-	14
1909 . . . . .	-	4	4	-	4	11	-	-	23
1910 . . . . .	2	7	5	1	-	13	-	-	28
1911 . . . . .	1	7	6	2	3	19	1	-	40
1912 . . . . .	-	3	6	-	6	41	-	-	57
1913 . . . . .	-	4	6	2	3	34	-	-	52
1914 . . . . .	3	1	4	1	3	53	-	-	49
1915 . . . . .	-	1	4	4	6	-	-	-	65
1916 . . . . .	-	2	3	1	2	27	-	-	36
1917 . . . . .	6	8	8	1	5	93	-	-	112
1918 . . . . .	6	6	15	-	6	69	-	-	91
1919 . . . . .	1	4	5	-	-	51	-	-	61
1920 . . . . .	1	5	7	3	5	79	-	-	98
1921 . . . . .	3	2	1	3	2	23	-	-	36
1922 . . . . .	6	4	7	4	5	17	-	-	42
1923 . . . . .	5	6	13	7	12	20	-	-	63
1924 . . . . .	11	9	13	5	25	42	-	-	106
1925 . . . . .	17	5	14	5	21	65	-	-	127
1926 . . . . .	12	4	11	5	16	81	-	-	137
1927 . . . . .	7	9	11	12	13	96	4	-	151
1928 . . . . .	18	7	9	2	28	121	4	4	193
1929 . . . . .	20	10	10	6	29	92	7	3	175
1930 . . . . .	19	15	9	16	21	65	7	-	152
1931 . . . . .	15	8	12	13	20	41	4	-	113
1932 . . . . .	9	3	8	9	11	20	2	-	62
1933 . . . . .	6	2	5	6	8	12	5	-	45
1934 . . . . .	8	4	18	10	14	28	7	-	90
1935 . . . . .	4	2	15	13	19	68	20	-	147
1936 . . . . .	16	9	22	13	44	54	21	-	177
1937 . . . . .	20	10	18	11	59	55	13	-	180
1938 . . . . .	10	9	20	15	54	68	13	2	187
1939 . . . . .	18	6	16	15	37	98	7	-	194
1940 . . . . .	15	8	30	7	36	95	12	1	205
1941 . . . . .	32	11	23	16	40	100	8	-	218
1942 . . . . .	24	20	22	27	42	126	5	1	251
1943 . . . . .	30	28	24	32	60	116	7	1	271
1944 . . . . .	51	26	36	43	69	209	17	1	450
1945 . . . . .	47	37	43	35	91	234	29	2	495
1946 . . . . .	43	40	63	70	128	248	37	10	620
1947 . . . . .	35	27	36	63	147	227	32	14	562
1948 . . . . .	16	13	48	40	178	159	28	-	466
1949 . . . . .	17	20	40	62	98	175	11	2	409

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GENERAL REVIEW

## AGE DISTRIBUTION OF U. S. VESSELS ENGAGED IN COMMERCIAL FISHING, 1865-1964 - Continued

YEAR BUILT	NEW ENGLAND	MIDDLE ATLANTIC	CHESA- PEAKE <sup>1/</sup>	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES <sup>2/</sup>	HAWAII	TOTAL, EX- CLUSIVELY OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
1950 . . . . .	11	20	34	26	119	117	15	1	334
1951 . . . . .	12	14	23	36	110	150	8	-	334
1952 . . . . .	20	14	31	23	177	158	8	-	355
1953 . . . . .	9	15	34	24	235	89	4	3	400
1954 . . . . .	8	10	40	45	224	57	3	-	369
1955 . . . . .	7	8	25	39	89	91	5	-	246
1956 . . . . .	11	13	65	52	123	68	5	1	317
1957 . . . . .	9	15	49	55	209	71	3	-	376
1958 . . . . .	5	7	43	55	268	52	9	-	409
1959 . . . . .	12	7	53	43	107	54	5	-	266
1960 . . . . .	5	7	30	15	82	56	1	-	193
1961 . . . . .	12	5	20	21	78	71	1	1	201
1962 . . . . .	9	4	12	20	63	72	-	-	185
1963 . . . . .	10	10	17	31	154	70	1	1	274
1964 . . . . .	9	5	10	13	129	37	-	1	200
UNKNOWN . . . . .	4	4	17	19	19	36	-	-	99
TOTAL . . . . .	721	608	1,245	1,106	3,562	4,567	390	57	11,808

1/ INCLUDES SAILING VESSELS.

2/ INCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.

## HORSEPOWER DISTRIBUTION OF U. S. FISHING FLEET, 1964

HORSEPOWER	NEW ENGLAND	MIDDLE ATLANTIC	CHESA- PEAKE	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES <sup>2/</sup>	HAWAII	TOTAL, EX- CLUSIVELY OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
UNDER 50 <sup>1/</sup> . . .	18	17	198	39	55	177	66	1	570
50 - 99. . . .	75	50	139	231	441	1,126	117	5	2,161
100 - 149. . . .	135	142	504	333	923	1,541	122	7	3,619
150 - 199. . . .	168	160	168	303	1,573	1,092	58	13	3,409
200 - 249. . . .	88	73	108	106	260	333	21	15	955
250 - 299. . . .	56	34	44	14	105	76	4	6	305
300 - 349. . . .	55	32	23	18	91	51	1	4	258
350 - 399. . . .	24	7	7	1	9	15	-	1	58
400 - 449. . . .	39	14	12	4	10	35	1	1	98
450 - 499. . . .	12	7	5	5	14	17	-	4	57
500 - 599. . . .	26	7	11	6	14	22	-	-	80
600 - 699. . . .	12	9	2	3	20	22	-	-	66
700 - 799. . . .	6	2	1	1	4	3	-	-	15
800 - 899. . . .	2	20	2	11	3	21	-	-	47
900 - 999. . . .	3	1	-	1	11	19	-	-	32
1000 - 1499. . . .	2	13	19	30	29	9	-	-	66
1500 AND OVER . . .	-	-	2	3	-	8	-	-	12
TOTAL . . . . .	721	608	1,245	1,106	3,562	4,567	390	57	11,808

1/ INCLUDES 61 SAILING VESSELS WITHOUT MOTOR POWER OPERATED IN THE CHESAPEAKE AREA.

2/ INCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.

# GENERAL REVIEW

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## CATCH BY REGION, 1964

(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										
ALEWIVES	7,239	90	51	(1)	27,954	516	7,563	77	433	16
AMBERJACK	-	-	(1)	(1)	-	-	(1)	10	(1)	-
ANCHOVIES	74	2	-	-	-	-	-	-	-	-
ANGLERFISH	44	1	27	1	-	-	-	-	-	-
BALLYHOO	-	-	-	-	-	-	30	4	887	125
BARRACUDA	-	-	-	-	-	-	1	(1)	2	(1)
BILLFISH	(1)	(1)	-	-	-	-	-	-	-	-
BLUEFISH	192	29	1,216	196	401	55	2,033	213	805	79
BLUE RUNNER	-	-	-	-	-	-	50	2	1,210	28
BONITO	38	6	12	2	14	1	(1)	(1)	-	-
BOTTIN	-	-	-	-	-	-	-	-	3	(1)
BUFFALOFISH	-	-	-	-	-	-	-	-	955	105
BUTTERFISH	2,869	266	2,258	259	1,244	99	130	9	-	-
CARIBO	-	-	-	-	12	1	14	1	25	2
CARP	3	1	195	13	337	9	226	7	25	1
CATFISH AND BULLHEADS	1	(1)	47	5	1,852	129	14,835	2,113	6,223	1,461
CIGARFISH	-	-	-	-	-	-	-	-	502	36
COD	37,853	2,541	852	123	41	5	-	-	-	-
CRAPPIE	-	-	-	-	5	(1)	-	-	-	-
CREVALLE	-	-	-	-	-	-	114	3	537	13
CROAKER	-	-	-	-	396	64	1,978	155	68	5
CODFISH	2,319	118	-	-	-	-	-	-	-	-
DOLPHIN	-	-	-	-	-	-	6	1	22	2
DRUM	-	-	-	-	-	-	-	-	-	-
BLACK	-	-	33	1	70	2	178	13	1,866	158
RED	-	-	-	-	5	(1)	233	33	1,527	262
EELS	-	-	-	-	-	-	-	-	-	-
COMMON	95	23	265	39	500	36	181	9	-	-
CONGER	34	1	8	(1)	-	-	-	-	-	-
FLOUNDERS	112,172	8,854	11,004	1,650	2,154	393	2,708	526	918	181
GARFISH	-	-	-	-	3	(1)	-	-	1,109	54
GIZARD SHAD	-	-	-	-	86	1	-	-	-	-
GROUPERS	-	-	-	-	-	-	215	27	6,439	916
GUNTS	-	-	1	(1)	-	-	25	2	37	3
HADDOCK	133,450	11,839	48	6	-	-	-	-	-	-
HAKE	-	-	-	-	-	-	-	-	-	-
RED	-	3,054	37	1,294	36	26	(1)	-	-	-
WHITE	-	6,857	308	60	3	(1)	-	-	-	-
HALIBUT	-	307	99	-	-	-	-	-	-	-
HARVESTFISH	-	-	-	-	168	17	17	1	-	-
HERRING, SEA	63,202	1,324	468	10	13	(1)	-	-	-	-
HICKORY SHAD	-	-	-	-	73	4	236	9	-	-
HOGCHOKER	-	-	-	-	9	(1)	-	-	-	-
HOGFISH	-	-	-	-	-	-	2	(1)	21	3
HORN FISH	-	-	-	-	-	-	32	2	209	20
KING MACKEREL	-	-	-	-	37	5	2,105	292	1,314	110
KING WHITING OR "KINGFISH"	(1)	(1)	40	3	76	7	2,642	294	1,855	98
LAUNCE	186	12	-	-	-	-	-	-	-	-
MACKEREL	3,898	249	478	70	356	37	-	-	-	-
MARLIN	-	-	(1)	(1)	-	-	-	-	-	-
MENHADEN	6	(1)	139,258	1,664	336,414	4,869	190,146	2,436	904,141	13,001
MOJARRA	-	-	-	-	-	-	181	13	105	8
MULTIF	-	1	(1)	42	9	52	5	4,754	276	36,890
PELAGIC PERCH, ATLANTIC	89,258	3,761	-	-	-	-	-	-	-	2,030
OCEAN POUT	3,184	44	-	-	-	-	-	-	-	-
PADDLEFISH	-	-	-	-	-	-	-	-	-	-
PERMIT	-	-	-	-	-	-	-	-	11	1
PIKE OR PICKEREL	-	-	-	-	3	(1)	92	(1)	16	2
FOLLOCK	13,263	658	4	(1)	-	-	-	-	7	13
POMPANO	-	-	-	-	4	1	-	-	-	-
SALMON, ATLANTIC	1	(1)	-	-	-	-	176	109	642	397
SAND PERCH	-	-	-	-	-	-	-	-	-	-
SAWFISH	-	-	-	-	-	-	16	(1)	-	-
SEAFLOOR PORGY	9,685	647	16,896	1,631	11,147	620	543	31	4	(1)
SEA BASS, BLACK (ATLANTIC)	189	38	2,696	431	4,045	390	1,190	159	-	-
SEA CATFISH	95	1	68	2	531	5	-	8	1	368
SEA TROUT OR WEAKFISH	1	(1)	728	73	1,765	177	2,080	149	-	22
GRAY	-	-	-	-	23	6	1,031	299	4,280	1,073
SPOTTED	-	-	-	-	-	-	-	-	200	13
WHITE	-	-	-	-	-	-	-	-	-	-
SHAD	320	61	721	96	3,541	442	1,687	315	-	-
SHARKS:										
GRAYFISH	199	1	73	3	1,300	22	-	-	-	-
UNCLASSIFIED	13	(1)	9	(1)	112	3	33	3	4	(1)
TOTAL SHARKS	212	1	82	3	1,412	25	33	3	4	(1)

SEE FOOTNOTES AT END OF TABLE.

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## CATCH BY REGION, 1964 - 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										
SHEEPSHEAD;										
FRESH-WATER . . . . .	-	-	-	-	-	-	-	-	175	18
SALT-WATER . . . . .	-	-	-	-	-	-	-	-	680	63
SILVERSIDES . . . . .	-	-	157	16	-	-	-	-	-	-
SKATES . . . . .	83	3	15	1	-	-	(1)	-	-	-
SMELT . . . . .	257	70	-	-	-	6	(1)	-	-	-
SNAPPER;										
MANGROVE . . . . .	-	-	-	-	-	-	-	85	17	325
MUTTON . . . . .	-	-	-	-	-	-	-	65	16	134
RED . . . . .	-	-	-	-	-	-	-	550	197	13,334
VERMILION . . . . .	-	-	-	-	-	-	-	5	1	90
YELLOWTAIL . . . . .	-	-	-	-	-	-	-	144	36	896
UNCLASSIFIED . . . . .	-	-	-	-	-	-	-	11	{1}	220
SPARFISH . . . . .	-	-	-	-	-	-	-	2	{1}	-
SPANISH MACKEREL . . . . .	-	-	{1}	{1}	33	5	2,083	161	3,957	378
SPOT . . . . .	-	-	{1}	{1}	3,232	536	5,372	450	379	26
STRIPED BASS . . . . .	632	95	2,022	521	5,189	839	717	118	-	-
STURGEON, COMMON . . . . .	19	1	28	6	27	4	100	17	9	2
SUCKERS . . . . .	1	(1)	{1}	{1}	3	(1)	3	(1)	-	-
SUNFISH . . . . .	-	-	{1}	{1}	21	1	-	-	-	-
SWELLFISH . . . . .	-	-	685	28	5,147	99	282	8	-	-
SWORDFISH . . . . .	1,456	431	476	161	635	218	483	233	-	-
TAUTOG . . . . .	84	4	57	2	3	(1)	-	-	-	-
TENPOUNDER . . . . .	-	-	-	-	-	-	-	-	342	19
TILLAPIA . . . . .	1,162	76	149	12	3	(1)	-	1	(1)	(1)
TOMCOD . . . . .	-	-	2	1	-	-	-	6	(1)	-
TRIGGERFISH . . . . .	-	-	-	-	-	-	-	4	24	1
TRIPELTAIL . . . . .	-	-	-	-	-	-	-	{1}	{1}	-
TUNA;										
BLUEFIN . . . . .	2,180	152	2,776	141	1,449	186	33	3	-	-
LITTLE . . . . .	-	-	3	(1)	1	(1)	-	-	-	-
SKIPJACK . . . . .	1,154	84	-	-	1,113	111	-	-	-	-
YELLOWFIN . . . . .	-	-	-	-	277	36	-	-	-	-
UNCLASSIFIED . . . . .	-	-	-	-	123	9	-	-	-	-
TOTAL TUNA . . . . .	3,334	236	2,781	141	2,963	342	33	3	-	-
MARSAL . . . . .	-	-	-	-	-	-	18	2	193	16
WHITE PERCH . . . . .	44	6	244	30	908	96	340	36	-	-
WHITING . . . . .	87,672	1,750	6,394	313	167	4	-	-	-	-
WOLFFISH . . . . .	827	38	-	-	-	-	-	-	-	-
YELLOW PERCH . . . . .	-	-	(1)	(1)	161	18	60	5	-	-
UNCLASSIFIED;										
FOR FOOD . . . . .	6,696	415	379	35	43	4	263	18	1,066	76
BAIT, REDUCTION, AND	27,899	280	122,651	922	10,574	81	12,527	139	86,858	1,458
TOTAL FISH . . . . .	620,508	34,436	314,894	8,517	423,886	10,191	260,955	9,079	1,064,718	26,477
SHELLFISH, ETC.										
CRABS;										
BLUE:										
HARD . . . . .	(1)	(1)	882	114	74,112	4,994	52,011	2,570	25,292	1,589
SOFT AND PEELER . . . . .	-	-	12	3	4,496	1,715	72	34	215	134
GREEN . . . . .	63	5	-	-	-	-	-	-	-	-
ROCK . . . . .	2,232	118	45	2	-	-	-	-	-	-
STONE . . . . .	-	-	-	-	-	-	191	84	752	233
TOTAL CRABS . . . . .	2,295	123	939	119	78,608	6,709	52,274	2,668	26,259	1,956
CRAWFISH, FRESH-WATER . . . . .	-	-	354	2	-	-	-	-	1,340	239
HORSESHOE CRABS . . . . .	-	-	-	-	-	-	-	-	-	-
LOBSTERS;										
NORTHERN . . . . .	29,318	19,020	1,606	822	32	14	-	786	351	2,845
SPINY . . . . .	-	-	-	-	-	-	-	17,341	6,633	179,032
SHRIMP . . . . .	932	113	2	2	-	-	-	-	62,695	-
CLAMS;										
HARD . . . . .	3,600	2,108	7,714	5,141	2,785	1,391	402	152	72	24
OCEAN QUAHOG . . . . .	113	11	-	-	-	-	-	-	-	-
RAZOR . . . . .	9	4	6	1	-	-	-	-	-	-
SOFT . . . . .	2,663	1,389	203	65	8,164	1,667	-	-	-	-
SURF . . . . .	13	3	38,093	2,613	36	3	-	-	-	-
TOTAL CLAMS . . . . .	6,398	3,515	46,016	7,820	10,967	3,061	402	152	72	24
CONCHS . . . . .	147	27	232	47	293	19	(1)	(1)	2	1
MUSSELS, SEA . . . . .	194	17	126	17	-	-	-	1	(1)	-
OCTOPUS . . . . .	-	-	-	-	-	-	-	-	-	-
OYSTERS, MARKET, EASTERN;										
PUBLIC . . . . .	39	44	151	168	10,135	6,925	701	388	11,890	3,234
PRIVATE . . . . .	156	282	1,205	1,199	11,963	8,881	2,826	1,121	11,495	3,039
TOTAL OYSTERS . . . . .	195	326	1,356	1,367	22,098	15,806	3,527	1,509	23,365	6,273

SEE FOOTNOTES AT END OF TABLE.

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## CATCH BY REGION, 1964 - 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.										
PERIWINKLES AND COCKLES	46	13	-	-	-	-	-	-	-	-
SCALLOPS:										
BAY. . . . .	466	595	1,063	886	-	-	340	173	18	14
SEA. . . . .	14,536	7,955	2,184	1,194	194	95	-	-	-	-
SQUID. . . . .	556	58	1,384	96	235	13	44	5	47	4
SEA URCHIN. . . . .	121	3	-	-	-	-	-	-	-	-
TERRAPIN. . . . .	-	-	4	1	9	3	-	-	6	1
TURTLES:										
BABY. . . . .	-	-	-	-	-	-	-	-	7	28
GREEN. . . . .	-	-	-	-	-	-	-	-	33	4
LOGGERHEAD. . . . .	-	-	1	(1)	-	-	-	-	1	(1)
SNAPPER. . . . .	-	-	58	7	254	37	17	3	10	2
SOFT-SHELL. . . . .	-	-	-	-	-	-	310	25	-	-
UNCLASSIFIED. . . . .	-	-	2	(1)	-	-	-	-	-	-
TOTAL TURTLES. . . . .	-	-	61	7	254	37	327	26	51	34
FROGS. . . . .	-	-	-	-	-	-	-	-	15	6
IRISH MOSS. . . . .	4,495	79	-	-	-	-	-	-	-	-
SPONGES. . . . .	-	-	-	-	-	-	(1)	1	44	363
BLOODWORMS. . . . .	818	804	-	-	-	-	-	-	-	-
SANDWORMS. . . . .	830	512	-	-	-	-	-	-	-	-
TOTAL SHELLFISH, ETC. . . . .	61,349	33,160	55,329	12,360	112,710	25,757	75,042	11,540	233,116	72,621
GRAND TOTAL. . . . .	681,857	67,596	370,223	20,897	536,596	35,948	335,997	20,619	1,317,834	99,298

SPECIES	PACIFIC		GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES		HAWAII		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FISH										
ALEWIVES. . . . .	-	-	11,745	219	-	-	-	-	54,985	920
AMBERJACK. . . . .	-	-	-	-	-	-	95	28	113	28
ANCHOVIES. . . . .	4,975	82	-	-	-	-	-	-	5,049	84
ANGLERFISH. . . . .	-	-	-	-	-	-	-	-	71	2
BALLYHOO. . . . .	-	-	-	-	-	-	-	-	917	129
BARRACUDA. . . . .	334	55	-	-	-	-	-	-	348	59
BILLFISH. . . . .	-	-	-	-	-	-	-	-	(1)	(1)
BLUFFISH. . . . .	-	-	-	-	-	-	-	-	4,647	572
BLUE PIKE. . . . .	-	-	(1)	(1)	-	-	-	-	(1)	(1)
BLUE RIBBON. . . . .	-	-	-	-	-	-	-	-	1,260	30
BONITO. . . . .	2,612	66	-	-	-	-	-	-	2,676	75
BOWFIN. . . . .	-	-	2	(1)	143	4	-	-	149	4
BUFFALO FISH. . . . .	-	-	121	15	17,399	1,633	-	-	18,475	1,953
BURBOT. . . . .	-	-	238	13	69	1	-	-	307	14
BUTTERFISH. . . . .	-	-	-	-	-	-	-	-	6,501	632
CABEZON. . . . .	5	(1)	-	-	-	-	-	-	5	(1)
CABIO. . . . .	-	-	-	-	-	-	-	-	51	4
CABRILLA. . . . .	14	2	-	-	-	-	-	-	14	2
CARP. . . . .	1,142	17	5,260	150	25,938	630	-	-	33,146	1,026
CATFISH AND BULLHEADS. . . . .	-	-	1,530	387	13,574	2,784	-	-	38,062	6,879
CHUBS. . . . .	-	-	7,217	1,157	-	-	-	-	7,217	1,157
CIGARFISH. . . . .	-	-	-	-	-	-	-	-	502	36
CISCO. . . . .	-	-	9	3	-	-	-	-	9	3
COD. . . . .	6,414	351	-	-	-	-	-	-	45,160	3,020
CRAPPIE. . . . .	-	-	2	(1)	15	4	-	-	22	4
CREVALLA. . . . .	-	-	-	-	-	-	112	45	763	61
CROAKER. . . . .	-	-	-	-	-	-	-	-	2,462	224
CUSK. . . . .	-	-	-	-	-	-	-	-	2,319	118
DOLLY VARDEN TROUT. . . . .	6	1	-	-	-	-	-	-	6	1
DOLPHIN. . . . .	-	-	-	-	-	-	85	47	113	50
DRAKE. . . . .	-	-	-	-	-	-	-	-	2,147	174
BLACK. . . . .	-	-	-	-	-	-	-	-	1,765	295
RED. . . . .	-	-	-	-	-	-	-	-	-	-
EELS. . . . .	-	-	-	-	-	-	-	-	-	-
COMMON. . . . .	-	-	33	7	1	(1)	-	-	1,075	116
CONGER. . . . .	-	-	-	-	-	-	4	(1)	46	1
FLOUNDERS. . . . .	47,395	3,402	-	-	-	-	-	-	176,351	15,006
FLYING FISH. . . . .	86	11	-	-	-	-	-	-	66	11
GARFISH. . . . .	-	-	(1)	(1)	776	37	-	-	1,868	91
GIZZARD SHAD. . . . .	-	-	11	(1)	-	-	-	-	97	1
GOATFISHES. . . . .	-	-	-	-	-	-	-	-	125	68
GULFISH. . . . .	-	-	159	4	-	-	-	-	159	4
GROUNDFISHERS. . . . .	164	37	-	-	-	-	-	-	8,918	980
GRUNTS. . . . .	-	-	-	-	-	-	-	-	63	5
HADDOCK. . . . .	-	-	-	-	-	-	-	-	133,498	11,845
HAKE. . . . .	-	-	-	-	-	-	-	-	-	-
PACIFIC. . . . .	-	-	-	-	-	-	-	-	878	14
RED. . . . .	-	-	-	-	-	-	-	-	4,366	73
WHITE. . . . .	-	-	-	-	-	-	-	-	6,917	311
HALFMONK. . . . .	10	2	-	-	-	-	-	-	10	2

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## CATCH BY REGION, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	PACIFIC		GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES		HAWAII		TOTAL		
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	
FISH - CONTINUED											
HALIBUT . . . . .	35,047	5,923	-	-	-	-	-	-	35,354	6,022	
HARDHEAD . . . . .	157	42	-	-	-	-	-	-	157	42	
HARVESTFISH . . . . .	-	-	-	-	-	-	-	-	185	16	
HERRING:											
LAKE . . . . .	-	-	6,261	371	-	-	-	-	6,261	371	
SEA . . . . .	52,246	891	-	-	-	-	-	-	115,929	2,225	
HICKORY SHAD . . . . .	-	-	-	-	-	-	-	-	309	13	
HOGCHOKER . . . . .	-	-	-	-	-	-	-	-	9	(1)	
HOGFISH . . . . .	-	-	-	-	-	-	-	-	23	3	
JACK MACKEREL . . . . .	89,693	2,109	-	-	-	-	292	104	69,985	2,213	
JEWFISH . . . . .	-	-	-	-	-	-	-	-	241	22	
KING CROAKER . . . . .	839	39	-	-	-	-	-	-	839	39	
KING MACKEREL . . . . .	-	-	-	-	-	-	-	-	3,459	407	
KING TUNA OR "WALMINGTON"	-	-	-	-	-	-	-	-	-	-	
LAKE TROUT . . . . .	4	1	102	67	-	-	-	-	4,813	402	
LAUNCE . . . . .	-	-	-	-	-	-	-	-	106	68	
LINGCOD . . . . .	5,229	294	-	-	-	-	-	-	166	12	
MACKEREL . . . . .	26,828	666	-	-	-	-	-	-	5,229	294	
MARLIN . . . . .	-	-	-	-	-	-	693	183	31,560	1,022	
MENHADEN . . . . .	-	-	-	-	-	-	-	-	693	183	
MINNOWS . . . . .	-	-	-	-	2	19	-	-	1,569,965	22,190	
MOJARRA . . . . .	-	-	-	-	(1)	(1)	25	2	-	19	
MOONEYE . . . . .	-	-	-	-	-	-	-	-	286	21	
MULLETS . . . . .	-	-	-	-	-	-	-	-	25	(1)	
NORTHERN PIKE . . . . .	(1)	(1)	-	-	-	-	35	31	41,774	2,351	
OCEAN PERCH:											
ATLANTIC . . . . .	-	-	-	-	-	-	-	-	89,268	3,781	
PACIFIC . . . . .	20,973	999	-	-	-	-	-	-	20,973	999	
OCEAN POUT . . . . .	-	-	-	-	-	-	-	-	3,184	44	
OPALEYE . . . . .	2	(1)	-	-	-	-	-	-	2	(1)	
PADDLEFISH . . . . .	-	-	-	-	820	110	-	-	831	111	
PERCH . . . . .	264	34	-	-	-	-	-	-	264	34	
PERMIT . . . . .	-	-	-	-	-	-	-	-	18	2	
PIGFISH . . . . .	-	-	-	-	-	-	-	-	108	8	
PIKE OR PICKEREL . . . . .	-	-	155	22	93	13	-	-	252	36	
POLLACK . . . . .	-	-	-	-	-	-	-	-	13,287	656	
POMPANO . . . . .	121	33	-	-	-	-	-	-	959	539	
QUILLBACK . . . . .	-	-	9	(1)	441	20	-	-	450	20	
RATFISH . . . . .	1,374	9	-	-	-	-	-	-	1,374	9	
ROCK BASS . . . . .	-	-	13	2	-	-	-	-	13	2	
ROCKFISHES . . . . .	19,315	1,003	-	-	-	-	-	-	19,315	1,003	
RUDDERFISH . . . . .	-	-	-	-	-	-	10	4	10	4	
SABLEFISH . . . . .	6,056	877	-	-	-	-	-	-	8,068	877	
SALMON:											
ATLANTIC . . . . .	-	-	-	-	-	-	-	-	29,732	1	
CHINOOK OR KING . . . . .	28,732	11,455	-	-	-	-	-	-	65,842	11,455	
CHUM OR KETA . . . . .	65,842	5,235	-	-	-	-	-	-	162,325	5,235	
PINK . . . . .	162,325	17,182	-	-	-	-	-	-	57,350	17,182	
RED OR SOCKEYEE . . . . .	57,276	13,427	-	-	2/	74	2/	37	36,071	13,464	
SILVER OR COHO . . . . .	36,071	6,659	-	-	-	-	-	-	36,071	8,659	
TOTAL SALMON . . . . .	352,246	55,958	-	-	2/	74	2/	37	-	352,321	55,995
SAND PERCH . . . . .	-	-	-	-	-	-	-	-	16	(1)	
SARDINE, PACIFIC . . . . .	13,138	500	-	-	-	-	-	-	13,138	500	
SAUGER . . . . .	-	-	69	6	-	-	-	-	69	6	
SAWFISH . . . . .	-	-	-	-	-	-	-	-	4	(1)	
SCULPIN . . . . .	94	27	2	(1)	-	-	-	-	96	27	
SCUP OR GORGY . . . . .	-	-	-	-	-	-	-	-	38,525	2,934	
SEA BASS . . . . .	-	-	-	-	-	-	-	-	8,120	1,018	
BLACK (ATLANTIC) . . . . .	-	-	36	-	-	-	-	-	247	46	
BLACK (PACIFIC) . . . . .	223	36	-	-	-	-	24	10	1,400	309	
WHITE . . . . .	1,400	309	-	-	-	-	-	-	376	23	
SEA CATFISH . . . . .	-	-	-	-	-	-	-	-	694	8	
SEA ROBIN . . . . .	-	-	-	-	-	-	-	-	-	-	
SEA TROUT OR WEAKFISH:											
GRAY . . . . .	-	-	-	-	-	-	-	-	4,574	399	
SPOTTED . . . . .	-	-	-	-	-	-	-	-	5,334	1,376	
WHITE . . . . .	-	-	-	-	-	-	-	-	200	13	
SHAD . . . . .	618	61	-	-	-	-	-	-	7,067	975	
SHARKS:											
GRAYFISH . . . . .	1,837	9	-	-	-	-	-	-	3,409	35	
SOUFIN . . . . .	2	(1)	-	-	-	-	-	-	2	(1)	
UNCLASSIFIED . . . . .	649	63	-	-	-	-	-	-	820	69	
TOTAL SHARKS . . . . .	2,486	72	-	-	-	-	-	-	4,231	104	
SHEEFISH . . . . .	1	(1)	-	-	-	-	-	-	1	(1)	
SHEEPSHEAD:											
FRESH-WATER . . . . .	-	-	4,571	79	5,512	345	-	-	10,258	442	
SALT-WATER . . . . .	18	1	-	-	-	-	-	-	808	73	

SEE FOOTNOTES AT END OF TABLE.

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# GENERAL REVIEW

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## CATCH BY REGION, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	PACIFIC		GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES		HAWAII		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FISH - CONTINUED										
SILVERSIDES . . . . .	-	-	-	-	-	-	-	-	157	16
SKATES . . . . .	1,017	12	-	-	-	-	-	-	1,121	16
SMELT . . . . .	1,635	155	3,466	138	-	-	-	-	5,360	363
SNAPPER:										
MANGROVE . . . . .	-	-	-	-	-	-	-	-	410	75
MUTTON . . . . .	-	-	-	-	-	-	-	-	199	46
RED . . . . .	-	-	-	-	-	-	-	-	13,884	4,061
VERMILION . . . . .	-	-	-	-	-	-	-	-	95	16
YELLOWTAIL . . . . .	-	-	-	-	-	-	-	-	1,040	256
UNCLASSIFIED . . . . .	-	-	-	-	-	-	291	167	292	167
SPADEFISH . . . . .	-	-	-	-	-	-	-	-	2	(1)
SPANISH MACKEREL . . . . .	-	-	-	-	-	-	-	-	6,073	564
SPOT . . . . .	-	-	-	-	-	-	2	(1)	8,985	1,014
STEELHEAD TROUT . . . . .	439	123	-	-	-	-	-	-	439	123
STRIPED BASS . . . . .	46	7	-	-	-	-	-	-	6,606	1,380
STURGEON:										
COMMON . . . . .	363	30	5	4	-	-	-	-	551	64
SHOVELNOSE, ETC. . . . .	-	-	-	-	43	6	-	-	43	6
SUCKERS . . . . .	14	(1)	1,212	48	873	22	-	-	2,106	70
SUNFISH . . . . .	-	-	12	1	-	-	-	-	33	2
SWELLFISH . . . . .	-	-	-	-	-	-	-	-	6,114	135
SWORDFISH . . . . .	163	103	-	-	-	-	24	4	3,259	1,150
TAUTOG . . . . .	-	-	-	-	-	-	12	3	144	6
TEMPOUNDER . . . . .	-	-	-	-	-	-	-	-	654	22
TILEFISH . . . . .	-	-	-	-	-	-	-	-	1,315	88
TOMCOD . . . . .	386	7	-	-	-	-	-	-	390	8
TRIGGERFISH . . . . .	-	-	-	-	-	-	2	1	32	2
TRIPLATELAI . . . . .	-	-	-	-	-	-	-	-	6	(1)
TULLIBEE . . . . .	-	-	2,223	67	(1)	(1)	-	-	2,223	67
TUNA:										
ALBACORE . . . . .	48,061	7,466	-	-	-	-	9	3	48,070	7,469
BLUDEFIN . . . . .	23,171	2,627	-	-	-	-	3/	3/	30,450	3,803
LITTLE . . . . .	-	-	-	-	-	-	35	6	39	6
SKIPJACK . . . . .	66,059	6,624	-	-	-	-	9,024	1,222	77,350	8,041
YELLOWFIN . . . . .	149,020	19,849	-	-	-	-	500	165	149,797	20,070
UNCLASSIFIED . . . . .	-	-	-	-	-	-	-	-	123	9
TOTAL TUNA . . . . .	286,311	36,766	-	-	-	-	10,40/	1,910	305,829	39,398
TURBOT . . . . .	93	5	-	-	-	-	-	-	93	5
WAHOO . . . . .	4	1	-	-	-	-	33	7	37	8
WARSAW . . . . .	-	-	-	-	-	-	-	-	211	18
WHITEBAIT . . . . .	191	15	-	-	-	-	-	-	191	15
WHITE BASS . . . . .	-	-	1,542	254	72	7	-	-	1,614	261
WHITEFISH:										
COMMON . . . . .	17	3	1,423	642	132	52	-	-	1,572	897
MENOMINEE . . . . .	-	-	62	13	-	-	-	-	62	13
WHITE PERCH . . . . .	-	-	3	(1)	-	-	-	-	1,539	170
WHITING . . . . .	-	-	-	-	-	-	-	-	94,233	2,067
WOLFWISH . . . . .	-	-	-	-	-	-	-	-	827	36
YELLOW BASS . . . . .	-	-	-	-	-	-	-	-	1	(1)
YELLOW PERCH . . . . .	-	-	8,303	1,394	279	65	-	-	8,803	1,482
YELLOW PIKE . . . . .	-	-	905	309	638	207	-	-	1,543	516
YELLOWTAIL . . . . .	110	12	-	-	-	-	-	-	110	12
UNCLASSIFIED:										
FOR FOOD . . . . .	146	3	-	-	6	3	358	190	8,959	744
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	1,738	35	-	-	-	-	-	-	262,247	2,915
TOTAL FISH . . . . .	987,318	111,201	56,687	5,572	66,926	6,401	12,616	2,806	3,826,508	214,680
SHELLFISH, ETC.										
CRABS:										
BLUE:										
HARD . . . . .	-	-	-	-	-	-	-	-	152,297	9,267
SOFT AND PEELER . . . . .	-	-	-	-	-	-	-	-	4,795	1,886
DUNGENESS . . . . .	23,043	3,992	-	-	-	-	-	-	23,043	3,992
GREEN . . . . .	-	-	-	-	-	-	-	-	63	5
KING . . . . .	86,721	8,186	-	-	-	-	-	-	86,721	8,186
ROCK . . . . .	-	264	25	-	-	-	-	-	2,541	145
STONE . . . . .	-	-	-	-	-	-	-	-	943	317
TANNER . . . . .	-	14	1	-	-	-	-	-	14	1
UNCLASSIFIED . . . . .	-	-	-	-	-	-	25	14	25	14
TOTAL CRABS . . . . .	110,042	12,204	-	-	-	-	25	14	270,442	23,813
ARTEMIA (BRINE SHRIMP)										
EGGS . . . . .	-	-	-	-	108	54	-	-	108	54
CRAWFISH, FRESH-WATER . . . . .	11	3	-	-	1,957	330	-	-	3,336	571
HORSESHOE CRABS . . . . .	-	-	-	-	-	-	-	-	354	2
LIMPET . . . . .	-	-	-	-	-	-	4	9	354	9

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GENERAL REVIEW

## CATCH BY REGION, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	PACIFIC		GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES		HAWAII		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
SHELLFISH, ETC.-CONT'D.										
LOBSTERS:										
NORTHERN . . . . .	-	-	-	-	-	-	-	-	30,956	19,855
SPINY . . . . .	447	309	-	-	-	-	-	-	4,088	1,860
SHRIMP . . . . .	14,497	929	-	-	17	4	(1)	8	211,921	70,376
ABALONE . . . . .	817	574	-	-	-	-	-	-	817	574
CLAMS:										
HARD . . . . .	352	170	-	-	-	-	(1)	(1)	14,925	8,986
OCEAN QUAHOG . . . . .	-	-	-	-	-	-	-	-	113	11
RAZOR . . . . .	224	140	-	-	-	-	-	-	239	145
SOFT . . . . .	-	-	-	-	-	-	-	-	11,030	3,121
SURF . . . . .	-	-	-	-	-	-	-	-	36,144	2,619
MIXED . . . . .	13	8	-	-	-	-	-	-	13	8
TOTAL CLAMS . . . . .	589	318	-	-	-	-	(1)	(1)	64,464	14,890
CONCHS:										
MUSSELS, SEA . . . . .	-	-	-	-	-	-	-	-	674	94
MUSSEL SHELLS . . . . .	-	-	-	-	-	-	-	-	320	34
PEARLS AND SLUGS . . . . .	-	-	-	-	7,847	492	-	-	7,847	492
OCTOPUS . . . . .	75	7	-	-	-	-	12	-	7	12
TOTAL CONCHS . . . . .	75	7	-	-	-	-	-	-	83	11
OYSTERS, MARKET:										
EASTERN . . . . .	-	-	-	-	-	-	-	-	-	-
PUBLIC . . . . .	-	-	-	-	-	-	-	-	-	-
PRIVATE . . . . .	-	-	-	-	-	-	-	-	-	-
PACIFIC . . . . .	9,934	2,537	-	-	-	-	-	-	27,650	14,532
WESTERN . . . . .	34	98	-	-	-	-	-	-	9,934	2,537
TOTAL OYSTERS . . . . .	9,973	2,645	-	-	-	-	-	-	60,534	27,926
PERIWINKLES AND COCKLES										
SCALLOPS:										
BAY . . . . .	-	-	-	-	-	-	-	-	48	13
SEA . . . . .	-	-	-	-	-	-	-	-	-	-
SOUID . . . . .	-	-	-	-	-	-	-	-	1,887	1,668
MOLLUSKS, UNCLASSIFIED	16,435	333	-	-	-	-	-	-	16,914	9,244
SEA URCHIN . . . . .	(1)	(1)	-	-	-	-	-	-	18,710	512
TERRAPIN . . . . .	-	-	-	-	-	-	-	-	(1)	(1)
TURTLES:										
BABY . . . . .	-	-	-	-	11	50	-	-	16	78
GREEN . . . . .	-	-	-	-	-	-	-	-	33	4
LOGGERHEAD . . . . .	-	-	-	-	31	1	-	-	2	{1}
SLIDER . . . . .	-	-	-	-	154	22	-	-	31	1
SHAMPER . . . . .	-	-	-	-	-	-	-	-	493	71
SOFT-SHELL . . . . .	-	-	-	-	-	-	-	-	310	25
UNCLASSIFIED . . . . .	-	-	-	-	-	-	-	-	4	1
TOTAL TURTLES . . . . .	-	-	-	-	196	73	2	1	891	180
FROGS										
KELP (WITH HERRING)	-	-	-	-	50	17	-	-	65	23
LEGS . . . . .	399	80	-	-	-	-	-	-	399	80
IRISH MOSS . . . . .	-	-	-	-	-	-	-	-	4,495	79
SEAWEED . . . . .	-	-	-	-	-	-	-	-	12	3
SPONGES . . . . .	-	-	-	-	-	-	-	-	44	364
BLOODWORMS . . . . .	-	-	-	-	-	-	-	-	818	804
SANDWORMS . . . . .	-	-	-	-	-	-	-	-	630	512
TOTAL SHELLFISH, ETC.. . . . .	153,285	17,402	-	-	10,205	982	69	42	701,105	174,084
WHALE PRODUCTS:										
MEAT . . . . .	3,328	155	-	-	-	-	-	-	3,326	155
MEAT . . . . .	4,521	363	-	-	-	-	-	-	4,521	363
OLIVE SPERM . . . . .	401	25	-	-	-	-	-	-	401	25
WHALE . . . . .	2,759	170	-	-	-	-	-	-	2,759	170
TOTAL WHALE PRODUCTS . . . . .	11,009	734	-	-	-	-	-	-	11,009	734
GRAND TOTAL . . . . .	1,151,612	129,337	56,687	5,572	77,131	7,383	12,685	2,848	4,540,622	389,498

1/ LESS THAN 500 POUNDS OR \$500.

2/ RED OR SOCKEYE SALMON TAKEN FROM WATERS OF IDAHO.

3/ INCLUDES DATA ON THE CATCH OF BIGEYE TUNA IN HAWAII.

# GENERAL REVIEW

## CATCH BY GEAR, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

GEAR	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
HAUL SEINES . . . . .	1,579	40	1,960	239	7,897	653
STOP NETS AND SEINES . . . . .	48,231	1,004	52	4	-	-
PURSE SEINES . . . . .	15,629	466	133,900	1,956	304,196	4,646
BAG NETS . . . . .	77	17	-	-	-	-
BEAM TRAWLS . . . . .	-	-	-	2	-	-
OTTER TRAWLS . . . . .	520,837	31,991	163,705	5,736	28,780	1,480
TRAP NETS . . . . .	5,195	117	305	6	-	-
POUND NETS . . . . .	3,523	147	12,500	400	66,582	2,016
FLOATING TRAPS . . . . .	10,141	641	-	-	-	-
FYKE AND HOOP NETS . . . . .	2	(2)	202	16	3,298	139
POTS AND TRAPS . . . . .	29,026	17,644	3,278	643	3/50,896	3/ 3,763
GILL NETS . . . . .	3,490	255	1,615	237	8,420	1,012
HOOKS AND BAITS . . . . .	13,719	1,331	1,400	293	14,415	1,236
DIP NETS . . . . .	2,069	173	-	-	132	40
PUSH NETS . . . . .	-	-	1	(2)	-	-
HARPOONS . . . . .	264	62	20	7	-	-
SCAPERS . . . . .	6	2	80	12	-	-
SCRAPES . . . . .	-	-	-	-	3,303	1,178
DREDGES . . . . .	16,511	9,164	45,585	7,938	34,594	11,958
TONGS AND RAKES . . . . .	7,127	1,790	4,954	3,149	11,901	7,733
HOES AND FORKS . . . . .	4,357	2,721	13	5	-	-
DIVING OUTFITS . . . . .	24	16	-	-	-	-
BY HAND . . . . .	48	13	585	254	182	92
<b>TOTAL . . . . .</b>	<b>681,857</b>	<b>67,596</b>	<b>370,223</b>	<b>20,897</b>	<b>536,596</b>	<b>35,948</b>

GEAR	SOUTH ATLANTIC		GULF		PACIFIC	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
HAUL SEINES . . . . .	10,520	905	12,929	817	1/ 2,816	1/ 261
PURSE SEINES . . . . .	189,750	2,430	904,944	13,124	1/624,776	1/53,851
BAG NETS . . . . .	210	65	-	-	-	-
BEAM TRAWLS . . . . .	-	-	-	-	2,841	118
OTTER TRAWLS . . . . .	53,158	8,282	270,196	64,542	116,957	6,664
WEIRS . . . . .	-	-	-	-	85	17
POUND NETS . . . . .	7,266	235	11	6	846	59
TRAP NETS . . . . .	-	-	-	-	1,567	176
FYKE AND HOOP NETS . . . . .	594	76	1,691	331	-	-
POTS AND TRAPS . . . . .	34,777	2,850	23,897	2,692	4/110,636	4/12,554
GILL NETS . . . . .	13,335	1,358	36,944	2,755	4/123,014	4/21,174
TRAMMEL NETS . . . . .	100	34	7,041	1,033	-	-
HOOKS AND BAITS . . . . .	21,692	2,486	34,643	6,794	143,257	29,789
DIP NETS . . . . .	182	52	1,807	269	5/ 1,406	5/ 98
REEF NETS . . . . .	-	-	-	-	394	136
WHEELS . . . . .	-	-	-	-	24	4
CAST NETS . . . . .	60	15	16	1	-	-
HARPOONS . . . . .	-	-	-	-	11,163	820
SPARCS . . . . .	167	37	143	37	-	-
POUNDS . . . . .	540	315	18,051	4,719	6/ 9,567	6/ 2,565
TONGS AND RAKES 7/	2,645	1,143	5,275	1,540	6/ 420	6/ 91
SHOVELS . . . . .	-	-	41	19	555	306
BRUSH TRAPS . . . . .	-	-	-	-	-	-
GRABS . . . . .	-	-	11	4	-	-
HOOKS . . . . .	-	-	19	88	-	-
DIVING OUTFITS . . . . .	-	-	24	275	817	574
BY HAND . . . . .	801	334	151	52	399	80
<b>TOTAL . . . . .</b>	<b>335,997</b>	<b>20,619</b>	<b>1,317,834</b>	<b>99,298</b>	<b>1,151,612</b>	<b>129,337</b>

GEAR	GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES	
	QUANTITY	VALUE	QUANTITY	VALUE
HAUL SEINES . . . . .	7,616	439	22,145	904
OTTER TRAWLS . . . . .	11,217	302	1,511	89
WEIRS . . . . .	-	-	985	43
POUND NETS . . . . .	6,860	329	31	5
TRAP NETS . . . . .	7,523	972	633	44
FYKE AND HOOP NETS . . . . .	762	93	13,957	1,363
TRAMMEL NETS . . . . .	-	-	2,876	250
GILL NETS . . . . .	22,484	3,360	10,971	1,250
HOOKS AND BAITS . . . . .	-	-	8,456	662
DIP NETS . . . . .	219	57	7,223	1,643
TONGS AND RAKES 7/	6	(2)	136	68
SHOVELS . . . . .	-	-	45	16
CROWFOOT BARS . . . . .	-	-	108	54
BY HAND . . . . .	-	-	6,223	394
			1,629	112
<b>TOTAL . . . . .</b>	<b>56,687</b>	<b>5,572</b>	<b>77,131</b>	<b>7,383</b>

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GENERAL REVIEW

## CATCH BY GEAR, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

GEAR	HAWAII		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE
HAUL SEINES . . . . .	53	17	67,515	4,275
STOP NETS AND SEINES . . . . .	-	-	46,393	1,098
PURSE SEINES . . . . .	-	-	2,173,195	76,777
BAG NETS . . . . .	125	74	412	156
BEAM TRAWLS . . . . .	-	-	2,843	120
OTTER TRAWLS . . . . .	-	-	1,166,371	119,086
WEIRS . . . . .	-	-	6,630	183
POUND NETS . . . . .	-	-	99,619	3,197
TRAP NETS . . . . .	-	-	9,923	1,192
FLOATING TRAPS . . . . .	-	-	10,141	641
FYKE AND HOOP NETS . . . . .	-	-	20,500	2,016
POTS AND TRAPS . . . . .	121	58	255,511	40,930
GILL NETS . . . . .	60	38	220,333	31,459
TRAMMEL NETS . . . . .	-	-	15,597	1,929
HOOKS AND BAITS . . . . .	12,055	2,545	248,639	46,176
DIP NETS . . . . .	-	-	5,740	700
LIFT NETS . . . . .	155	46	155	46
REEF NETS . . . . .	-	-	394	136
PUSH NETS . . . . .	-	-	1	(2)
WHEELS . . . . .	-	-	24	4
CASING NETS . . . . .	5	3	81	19
HARPOONS . . . . .	-	-	11,407	889
SPEARING . . . . .	-	-	400	91
SCRAPES . . . . .	4	3	3,303	1,178
DREDGES . . . . .	-	-	124,668	36,659
TONGS AND RAKES <sup>1/</sup> . . . . .	-	-	32,597	15,462
HOES AND FORKS . . . . .	-	-	4,370	2,726
SHOVELS . . . . .	-	-	663	360
BRUSH TRAPS . . . . .	-	-	41	19
CROWFOOT BARS . . . . .	-	-	6,223	394
GRABS . . . . .	-	-	11	4
HOOKS . . . . .	-	-	19	88
DIVING OUTFITS . . . . .	-	-	865	865
BY HAND . . . . .	16	12	3,611	949
UNCLASSIFIED GEAR . . . . .	91	52	91	52
TOTAL . . . . .	12,685	2,848	4,540,622	389,498

<sup>1/</sup> THE CATCH BY HAUL SEINES IN ALASKA AND BY LAMPARA NETS IN CALIFORNIA HAS BEEN INCLUDED WITH PURSE SEINES.

<sup>2/</sup> LESS THAN \$500.

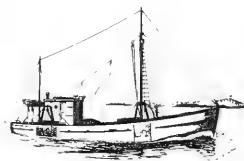
<sup>3/</sup> THE CATCH BY SLAT TRAPS IN VIRGINIA HAS BEEN INCLUDED WITH POTS AND TRAPS.

<sup>4/</sup> THE CATCH BY TRAMMEL NETS IN CALIFORNIA HAS BEEN INCLUDED WITH GILL NETS.

<sup>5/</sup> THE CATCH BY BRAIL OR SCOOP NETS IN CALIFORNIA HAS BEEN INCLUDED WITH DIP NETS.

<sup>6/</sup> THE CATCH BY HAND IN WASHINGTON AND OREGON HAS BEEN INCLUDED WITH THE CATCH BY DREDGES. IN CALIFORNIA, IT HAS BEEN INCLUDED WITH TONGS.

<sup>7/</sup> INCLUDES THE CATCH BY OYSTER GRABS.



SMALL OTTER TRAWL

# GENERAL REVIEW

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## CATCH FROM WATERS OFF THE UNITED STATES AND ON THE HIGH SEAS OFF FOREIGN COASTS, 1964

(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 . . . . .	34.7	3.2	37.9
CUSK . . . . .	1.9	.4	2.3
FLOUNDERS . . . . .	111.2	1.0	112.2
HADDOCK . . . . .	114.7	18.6	133.5
HAKE, WHITE . . . . .	6.5	.4	6.9
HALIBUT . . . . .	.2	.1	.3
OCEAN PERCH . . . . .	17.3	72.0	89.3
POLOCK . . . . .	10.6	2.7	13.3
SWORD FISH . . . . .	1.4	.1	.5
WOLFFISH . . . . .	.5	.3	.8
SCALLOPS, SEA . . . . .	14.5	(1)	14.5
UNCLASSIFIED . . . . .	269.3	.1	269.4
TOTAL . . . . .	582.6	99.1	681.9
MIDDLE ATLANTIC STATES, UNCLASSIFIED, TOTAL . . . . .	370.2	-	370.2
CHESAPEAKE STATES:			
TUNA . . . . .	2.5	.5	3.0
UNCLASSIFIED . . . . .	533.6	-	533.6
TOTAL . . . . .	536.1	.5	536.6
SOUTH ATLANTIC STATES, UNCLASSIFIED, TOTAL . . . . .	336.0	-	336.0
GULF:			
GROUPERS . . . . .	7.2	1.2	8.4
SNAPPER: . . . . .			
RED . . . . .	7.3	6.0	13.3
OTHER . . . . .	1.3	.1	1.4
WARSAW . . . . .	.1	.1	.2
SHRIMP . . . . .	149.0	30.0	179.0
UNCLASSIFIED . . . . .	1,115.5	(1)	1,115.5
TOTAL . . . . .	1,280.4	37.4	1,317.8
TOTAL ATLANTIC AND GULF STATES . . . . .	3,105.5	137.0	3,242.5
PACIFIC COAST STATES:			
ALASKA, WASHINGTON, AND OREGON:			
BOTTFOMFISH (WASHINGTON AND OREGON) 2/ . . . . .	39.4	33.3	72.7
HALIBUT . . . . .	32.7	2.3	35.0
SALMON . . . . .	340.7	2.1	342.8
UNCLASSIFIED . . . . .	200.1	.1	200.2
TOTAL . . . . .	612.9	37.8	650.7
CALIFORNIA:			
BARRACUDA . . . . .	.2	(1)	.3
CABRILLA . . . . .	(1)	(1)	(1)
FLOUNDERS . . . . .	20.4	.2	20.6
GROUPERS . . . . .	-	.2	.2
MACKEREL, JACK . . . . .	89.7	(1)	89.7
ROCKFISHES . . . . .	8.0	.1	8.1
SEA BASS:			
BLACK . . . . .	-	.2	.2
WHITE . . . . .	.6	.6	1.4
SHARKS, UNCLASSIFIED . . . . .	.6	(1)	.6
TOTAL . . . . .			
ALbacore . . . . .	33.9	8.7	42.6
BLUETIN . . . . .	4.7	16.5	23.2
SKIPJACK . . . . .	-	66.1	66.1
YELLOWFIN . . . . .	-	149.0	149.0
YELLOWTAIL . . . . .	-	.1	.1
UNCLASSIFIED . . . . .	98.8	(1)	98.8
TOTAL . . . . .	250.9	244.0	500.9
TOTAL PACIFIC COAST STATES . . . . .	869.8	261.8	1,151.6
GREAT LAKES AND MISSISSIPPI RIVER STATES,			
UNCLASSIFIED, TOTAL . . . . .	133.8	-	133.8
HAWAII, UNCLASSIFIED, TOTAL . . . . .	12.7	-	12.7
GRAND TOTAL . . . . .	4,121.8	416.9	4,540.7

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, 1964

SPECIES	QUANTITY	PERCENT OF TOTAL	RECORD CATCH AND YEAR	
			THOUSAND POUNDS	PERCENT
MENHADEN . . . . .	1,569,965	34.6	1962	2,347,944
SALMON . . . . .	352,321	7.8	1936	790,864
TUNA . . . . .	305,829	6.7	1950	391,454
CRABS . . . . .	270,442	6.0	1964	270,442
INDUSTRIAL FISH 1/ . . . . .	262,247	5.8	1964	262,247
SHRIMP . . . . .	211,821	4.7	1954	268,334
FLOUNDERS . . . . .	176,351	3.9	1963	176,798
HADDOCK . . . . .	133,498	2.9	1929	293,809
HERRING, SEA:				
ATLANTIC . . . . .	63,683	1.4	1902	200,598
PACIFIC . . . . .	52,246	1.1	1937	263,200
TOTAL . . . . .	115,929	2.5	-	-
WHITING . . . . .	94,233	2.1	1957	133,041
JACK MACKEREL . . . . .	89,995	2.0	1952	146,522
OCEAN PERCH, ATLANTIC . . . . .	89,268	2.0	1951	256,320
CLAMS . . . . .	64,464	1.4	1964	64,464
OYSTERS . . . . .	60,534	1.3	2/ 1908	152,046
ALEWIVES . . . . .	54,985	1.2	1908	89,978
COD:				
ATLANTIC . . . . .	39,746	.9	1880	294,351
PACIFIC . . . . .	6,414	.1	1915	32,681
TOTAL . . . . .	45,160	1.0	-	-
MULLET . . . . .	41,774	.9	1902	43,385
SCUP OR PORGY . . . . .	36,525	.8	1950	49,229
CATFISH AND BULLHEADS . . . . .	38,062	.8	1953	36,514
HALLIBUT, PACIFIC . . . . .	35,100	.6	1915	55,696
CARP . . . . .	33,146	.7	1908	42,459
LOBSTERS, NORTHERN . . . . .	30,956	.7	1960	31,168
MACKEREL, PACIFIC . . . . .	26,828	.6	1935	146,727
OCEAN PERCH, PACIFIC . . . . .	20,973	.5	1963	23,578
ROCKFISHES . . . . .	19,315	.4	1945	57,686
SIQUID . . . . .	18,710	.4	1946	40,266
BUFFALO FISH . . . . .	18,475	.4	1950	25,873
SCALLOPS, SEA . . . . .	16,914	.4	1961	27,461
SNAPPER, RED . . . . .	13,884	.3	1902	23,457
POLLOCK . . . . .	13,287	.3	1938	40,694
SARDINE, PACIFIC . . . . .	13,150	.3	1936	1,502,299
WHALE PRODUCTS 3/ . . . . .	11,009	.2	(4)	(4)
SHEEPHEAD, FRESH-WATER SPOT . . . . .	10,258	.2	1959	13,644
GROUPERS . . . . .	8,985	.2	1952	15,863
YELLOW PERCH . . . . .	8,818	.2	1945	8,882
STRIPED BASS . . . . .	8,803	.2	1934	16,282
SEA BASS, BLACK (ATLANTIC) . . . . .	8,606	.2	1961	9,495
SEA BASS, BLACK (ATLANTIC) . . . . .	8,120	.2	1952	21,997
SABLEFISH . . . . .	8,068	.2	1945	17,750
MUSSEL SHELLS . . . . .	7,847	.2	1908	81,869
CHUBS . . . . .	7,217	.2	1960	16,854
SHAD . . . . .	7,000	.2	1930	43,000
HAKE, WHITE . . . . .	6,917	.2	1898	59,000
BUTTERFISH . . . . .	6,501	.1	1939	17,151
HERRING, LAKE . . . . .	6,261	.1	1899	59,914
SWELLFISH . . . . .	6,114	.1	1964	6,114
SPANISH MACKEREL . . . . .	6,073	.1	1945	11,593
SMELT . . . . .	5,360	.1	1958	13,303
SEA TROUT OR WEAKFISH, SPOTTED . . . . .	5,334	.1	1936	8,800
LINGCOD . . . . .	5,229	.1	1944	14,262
ANCHOVES . . . . .	5,049	.1	1953	66,044
KING WHITING OR "KINGFISH" . . . . .	4,613	.1	1952	5,270
BLUFISH . . . . .	4,604	.1	1977	22,673
SEA TROUT OR WEAKFISH, GRAY . . . . .	4,574	.1	1945	41,420
IRISH MOSS . . . . .	4,495	.1	1961	6,995
HAKE, RED . . . . .	4,386	.1	(4)	(4)
SHARKS . . . . .	4,231	.1	1944	61,184
LOBSTERS, SPINY . . . . .	4,088	.1	1957	4,687
KING MACKEREL . . . . .	3,459	.1	1963	5,058
UNCLASSIFIED . . . . .	82,205	1.6	-	-
TOTAL . . . . .	4,540,622	100.0	-	-

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 WHICH INCLUDES MEAL, MEAT, AND OIL. 4/ DATA NOT AVAILABLE.

5/ INCLUDES DATA ON NEW ENGLAND CATCH IN 1898.

# GENERAL REVIEW

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## RELATIVE VALUE OF THE CATCH, BY SPECIES, 1964

SPECIES	VALUE	PERCENT OF TOTAL	RECORD VALUE AND YEAR	
			THOUSAND DOLLARS	YEAR
SHRIMP . . . . .	70,376	18.1	1953	76,641
SALMON . . . . .	55,995	14.4	1962	56,353
TUNA . . . . .	39,398	10.1	1950	61,342
OYSTERS . . . . .	27,926	7.2	1961	33,204
CRABS . . . . .	23,813	6.1	1964	23,813
MENHADEN . . . . .	22,190	5.7	1956	28,425
LOBSTERS, NORTHERN . . . . .	19,856	5.1	1964	19,856
FLOUNDERS . . . . .	15,006	3.9	1963	15,001
CLAMS . . . . .	14,000	3.6	1964	14,900
POLLOCK . . . . .	11,645	3.0	1946	13,043
SCALLOPS, SEA . . . . .	9,244	2.4	1959	11,805
CATFISH AND BULLHEADS . . . . .	6,879	1.8	1964	6,879
HALIBUT, PACIFIC . . . . .	5,923	1.5	1962	11,579
SNAPPER, RED . . . . .	4,061	1.0	1964	4,061
OCEAN PERCH, ATLANTIC . . . . .	3,761	1.0	1951	12,597
COD:				
ATLANTIC . . . . .	2,669	.7	1948	4,742
PACIFIC . . . . .	351	.1	1959	664
TOTAL . . . . .	3,020	.8	-	-
SCUP OR PORGY . . . . .	2,934	.8	1963	3,099
INDUSTRIAL FISH 1/ . . . . .	2,915	.7	1963	3,044
MULLET . . . . .	2,351	.6	1945	4,647
HERRING, SEA:				
ATLANTIC . . . . .	1,334	.4	1948	3,798
PACIFIC . . . . .	891	.2	1947	2,152
TOTAL . . . . .	2,225	.6	-	-
JACK MACKEREL . . . . .	2,213	.6	1952	4,755
WHITING . . . . .	2,067	.5	1951	2,903
BUFFALOFISH . . . . .	1,953	.5	1952	3,564
LOBSTERS, SPINY . . . . .	1,880	.5	1964	1,880
SCALLOPS, BAY . . . . .	1,668	.4	1964	1,668
YELLOW PERCH . . . . .	1,482	.4	1958	1,540
STRIPED BASS . . . . .	1,380	.4	1959	1,435
SPOTTED TROUT OR WEKFISH, SPOTTED . . . . .	1,378	.4	1952	1,781
CHUBS . . . . .	1,157	.3	1958	2,554
SWORDFISH . . . . .	1,150	.3	1946	1,435
CARP . . . . .	1,028	.3	1951	2,007
SEA BASS, BLACK (ATLANTIC) . . . . .	1,018	.3	1952	5,205
SPOT . . . . .	1,014	.3	1964	1,014
ROCKFISHES . . . . .	1,003	.3	1945	2,648
OCEAN PERCH, PACIFIC . . . . .	999	.3	1963	1,172
GROUPERS . . . . .	980	.3	1945	1,038
SHAD . . . . .	975	.2	1945	2,680
ALEVINES . . . . .	920	.2	1964	920
SPOTTED TROUT, COMMON . . . . .	897	.2	(3)	3,784
SABLEFISH . . . . .	877	.2	1946	1,834
BLOODWORMS . . . . .	804	.2	1954	804
WHALE PRODUCTS 2/ . . . . .	734	.2	(3)	(3)
MACKEREL, PACIFIC . . . . .	666	.2	1957	1,231
POLLOCK . . . . .	658	.2	1945	1,819
BUTTERFISH . . . . .	632	.2	1952	1,005
ABALONE . . . . .	574	.1	1963	626
BLUEFISH . . . . .	572	.1	1951	760
CRAWFISH, FRESH-WATER . . . . .	571	.1	1964	571
SPANISH MACKEREL . . . . .	564	.1	1945	1,521
TRIDACNA . . . . .	539	.1	1941	595
YELLOW PIKE . . . . .	516	.1	1951	2,152
SQUID . . . . .	512	.1	1947	1,370
SANDWORMS . . . . .	512	.1	1963	526
SARDINE, PACIFIC . . . . .	500	.1	1950	12,140
MUSSEL SHELLS . . . . .	492	.1	(3)	(3)
SHEEPSHEAD, FRESH-WATER . . . . .	442	.1	1951	929
KING MACKEREL . . . . .	407	.1	1945	578
UNCLASSIFIED . . . . .	9,136	2.3	-	-
TOTAL . . . . .	389,498	100.0	-	-

1/ UNCLASSIFIED SPECIES FOR BAIT, REDUCTION, AND ANIMAL FOOD. 2/ THE VALUE OF THE WHALE PRODUCTS REPRESENTS THE AMOUNT RECEIVED BY THE MANUFACTURER FOR THE PRODUCTION OF WHALE MEAL, MEAT, AND OIL. 3/ DATA NOT AVAILABLE.

# GENERAL REVIEW

## U. S. CATCH - LIVE WEIGHT BASIS

In the annual digest it has been the practice of the Bureau to show the catch of univalve 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 1964 U. S. 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 univalve and bivalve mollusks in the Food and Agriculture Organization data.

Included, therefore, in this report is 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:

### U. S. CATCH, 1964 - LIVE WEIGHT BASIS

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

ITEM	QUANTITY	VALUE
FISH . . . . .	3,828,508	214,680
SHELLFISH, ETC: UNIVALVE AND BIVALVE MOLLUSKS: ABALONE . . . . .	4,000	574
CLAMS: HARD . . . . . OCEAN QUAHOG . . . . . RAZOR . . . . . SOFT . . . . . SURF . . . . . MIXED . . . . .	114,224 901 571 56,615 201,203 63	8,986 11 145 3,121 2,619 6
TOTAL CLAMS . . . . .	373,577	14,890
CONCHES . . . . . LIMPETS . . . . . MUSSELS: SEA . . . . . FRESH-WATER . . . . . OYSTERS, MARKET . . . . . PERIWINKLES AND COCKLES . . . . . SCALLOPS: BAY . . . . . SEA . . . . .	2,131 20  2,014 8,632 913,762 200  15,318 139,960	94 9  34 504 27,926 13  1,668 9,244
TOTAL UNIVALVE AND BIVALVE MOLLUSKS . . . . .	1,459,614	54,956
CRUSTACEANS . . . . . OTHER . . . . .	521,001 26,595	116,498 2,630
TOTAL SHELLFISH, ETC. . . . .	2,007,210	174,084
WHALE PRODUCTS . . . . .	11,009	734
GRAND TOTAL . . . . .	5,846,727	369,498

# GENERAL REVIEW

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## WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES, 1964

The world commercial landings of fish, crustaceans, mollusks, etc., in 1964 was 113.8 billion pounds, according to the "Yearbook of Fishery Statistics, 1964" released by the Food and Agriculture Organization of the United Nations. The landings were 11 percent more than the 1963 production of 102.3 billion pounds and once again established a new record.

Five countries accounted for well over 50 percent of the 1964 world catch. Peru, with 17.7 percent, continued for the third successive year as world leader in total fishery landings--the result of phenomenal increases in the catch of industrial fish (anchoveta) used primarily for fish meal. Japan (12.3 percent) was in second place, followed by China (Mainland) with 11.2 percent. The U.S.S.R. was fourth (8.7 percent), and the United States, fifth (5.1 percent).

Asia accounted for 37 percent of the world landings, followed by South America (21 percent); Europe (19 percent); U.S.S.R. (9 percent); North America (8 percent); and Africa (6 percent). An insignificant percentage was taken in Oceania.

## WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES, 1964 (LIVE WEIGHT BASIS)

COUNTRY	BILLION POUNDS	PERCENT
PERU . . . . .	20.13	17.7
JAPAN . . . . .	13.97	12.3
CHINA (MAINLAND) . . . . .	12.79	11.2
U.S.S.R. . . . .	9.87	8.7
UNITED STATES . . . . .	5.84	5.1
NORWAY . . . . .	3.55	3.1
INDIA . . . . .	2.91	2.5
CANADA . . . . .	2.67	2.4
SPAIN . . . . .	2.64	2.3
CHILE . . . . .	2.56	2.3
UNITED KINGDOM . . . . .	2.15	1.9
ICELAND . . . . .	2.14	1.9
INDONESIA . . . . .	2.06	1.8
DENMARK . . . . .	1.92	1.7
FRANCE . . . . .	1.72	1.5
SOUTH WEST AFRICA . . . . .	1.47	1.3
FEDERAL REPUBLIC OF GERMANY . . . . .	1.38	1.2
PHILIPPINES . . . . .	1.37	1.2
PORTUGAL . . . . .	1.33	1.2
SOUTH AFRICA . . . . .	1.29	1.1
THAILAND . . . . .	1.27	1.1
REPUBLIC OF KOREA . . . . .	1.16	1.0
REPUBLIC OF VIET-NAM . . . . .	.88	.8
NETHERLANDS . . . . .	.85	.7
BRAZIL . . . . .	.84	.7
CHINA (TAIWAN) . . . . .	.83	.7
SWEDEN . . . . .	.82	.7
BURMA . . . . .	.79	.7
AFGHANISTAN . . . . .	.78	.7
PAKISTAN . . . . .	.76	.7
POLAND . . . . .	.58	.5
MEXICO . . . . .	.57	.5
ITALY . . . . .	.56	.5
MALAYSIA . . . . .	.53	.5
GERMANY, EASTERN . . . . .	.50	.4
MOROCCO . . . . .	.45	.4
CAMBODIA . . . . .	.36	.3
ARGENTINA . . . . .	.35	.3
OTHER . . . . .	7.12	6.3
TOTAL . . . . .	113.76	100.0

<sup>1/</sup> 1960 DATA.

<sup>2/</sup> REVISED. EXCLUDES WHALE PRODUCTS.

<sup>3/</sup> 1963 DATA.

<sup>4/</sup> 1962 DATA.

SOURCE:—YEARBOOK OF FISHERY STATISTICS, 1964, VOLUME 18, FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS.

## GENERAL REVIEW

## SEED OYSTER FISHERY, 1964

ITEM	NEW ENGLAND 1/	MIDDLE ATLANTIC 2/	CHESAPEAKE 3/	TOTAL
OPERATING UNITS	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS . . . . .	14	1,083	239	1,336
ON BOATS AND SHORE:				
REGULAR . . . . .	1	195	568	764
CASUAL . . . . .	3	-	576	579
TOTAL . . . . .	18	1,278	1,383	2,679
VEHICLES, MOTOR				
GROSS TONNAGE: . . . . .	4	121	113	238
BOATS	163	3,657	693	4,513
MOTOR, . . . . .	3	115	518	636
OTHER, . . . . .	1	-	-	1
GEAR:				
DREDGES, COMMON . . . . .	2	242	-	244
YARDS AT MOUTH . . . . .	1	243	-	244
TONGS. . . . .	2	-	1,383	1,385
CATCH	U. S. BUSHELS	U. S. BUSHELS	U. S. BUSHELS	U. S. BUSHELS
OYSTER, SEED:	VALUE	VALUE	VALUE	VALUE
PUBLIC:				
SPRING . . . . .	-	216,629	\$ 441,415	\$ 786,939
FALL . . . . .	148	\$ 447	11,520	140,368
PRIVATE:				
SPRING . . . . .	10,731	54,150	2,058	24,425
FALL . . . . .	11,696	55,089	5,000	35,785
TOTAL . . . . .	22,575	109,686	225,607	1,057,982
			719,977	966,159
				1,691,509

1/ CONFINED TO CONNECTICUT AND MASSACHUSETTS.

2/ CONFINED TO NEW YORK AND NEW JERSEY

3/ CONFINED TO VIRGINIA.

NOTE:--SOME OF THE FISHERMEN ENGAGED IN HARVESTING SEED OYSTERS ALSO FISH FOR MARKET OYSTERS OR OTHER SPECIES.

## **WHOLESALING AND MANUFACTURING, 1964**

ITEM	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING; ESTABLISHMENTS . . . . .	539	484	622	423	780
PERSONS ENGAGED;					
AVERAGE FOR SEASON . . . . .	11,842	7,436	10,264	8,148	16,924
AVERAGE FOR YEAR . . . . .	8,246	6,235	7,454	5,367	11,804
ITEM	PACIFIC	GREAT LAKES	MISSISSIPPI RIVER AND TRIBUTARIES	HAWAII	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING; ESTABLISHMENTS . . . . .	600	254	402	17	4,121
PERSONS ENGAGED;					
AVERAGE FOR SEASON . . . . .	23,476	2,880	2,659	327	83,976
AVERAGE FOR YEAR . . . . .	13,273	2,184	2,359	275	57,219



## MANUFACTURED FISHERY PRODUCTS, 1964

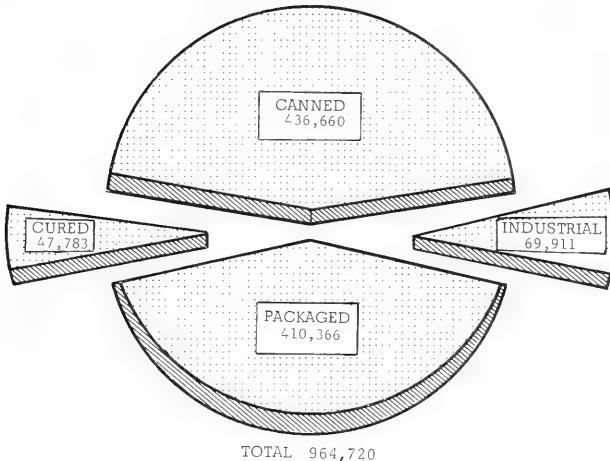
The production of manufactured products (packaged fresh and frozen, canned, cured, and industrial products) in the United States, American Samoa, and Puerto Rico was valued at \$964.7 million to the producers--an increase of \$50.2 million compared with 1963. Canned products accounted for 45 percent of the total value; fresh and frozen packaged products, 43 percent; industrial products (principally meal and oil), 7 percent; and cured products, 5 percent.

The 1964 canned fish and shellfish pack was 1.1 billion pounds valued at \$436.7 million to the packers. The pack for human food was 742.1 million pounds worth \$391.0 million; the pack for animal food and bait was 353.5 million pounds worth \$45.6 million. Tuna led all other species in 1964 with a record pack of 17.7 million cases (349.8 million pounds) valued at \$217.6 million. The value of three items--salmon, tuna, and animal food accounted for 82 percent of the total amount received by the producers of canned fishery products in 1964.

Production of fresh and frozen packaged fish and shellfish was 708.5 million pounds valued at \$410.4 million--an increase of 38.1 million pounds and \$34.3 million compared with 1963.

Industrial fishery products, principally meal and oil, were valued at \$69.9 million--an increase of \$1.3 million compared with the previous year. There were 235,252 tons of fish meal manufactured in 1964--20,655 tons less than in 1963. The 1964 production of solubles and marine-animal oils was 186.6 and 180.2 million pounds respectively.

## VALUE OF MANUFACTURED FISHERY PRODUCTS, 1964 (thousands of dollars)



## GENERAL REVIEW

## MANUFACTURED FISHERY PRODUCTS, 1964

ITEM		QUANTITY	VALUE
ALEVIVES:			
CANNED:			
FISH . . . . .	STANDARD CASES	74,581	\$300,402
ROE . . . . .	DO	44,988	577,950
SALTED AND PICKLED . . . . .	POUNDS	7,676,965	438,158
SMOKED . . . . .	DO	4,866	487
SPECIALTIES, CURED AND REFRIGERATED . . . . .	DO	(1)	(1)
MEAL . . . . .	TONS	1,457	180,528
OIL . . . . .	1,000 POUNDS	703	50,399
SOLUBLES . . . . .	TONS	848	51,234
ANCINIES:			
CANNED:			
IN TOMATO SAUCE . . . . .	STANDARD CASES	(1)	(1)
PASTE . . . . .	DO	1,068	73,235
OIL . . . . .	1,000 POUNDS	(1)	(1)
BARRACUDA:			
FILLETS, FRESH . . . . .	POUNDS	(1)	(1)
SMOKED . . . . .	DO	9,041	7,207
BLUEFISH FILLETS, FRESH AND FROZEN . . . . .	DO	66,000	35,520
BUFFALOFISH, SMOKED . . . . .	DO	50,000	44,600
BUTTERFISH, SMOKED . . . . .	DO	414,637	328,787
CARP:			
FILLETS AND STEAKS, FRESH AND FROZEN . . . . .	DO	1,590,000	329,450
SMOKED . . . . .	DO	253,740	109,684
CATFISH:			
FILLETS:			
FROZEN . . . . .	DO	(1)	(1)
BREADED, FROZEN . . . . .	DO	(1)	(1)
SMOKED . . . . .	DO	(1)	(1)
CHUBS, SMOKED . . . . .	DO	4,501,038	2,866,792
CISCO, SMOKED . . . . .	DO	(1)	(1)
COD:			
FILLETS:			
FRESH . . . . .	DO	7,217,103	2,510,515
FROZEN . . . . .	DO	2,698,628	640,501
BREADED AND COOKED . . . . .	DO	262,123	149,977
SPECIALTIES:			
FROZEN [CAKES, ETC.] . . . . .	DO	2,513,087	928,663
CANNED [CAKES, SALTED] . . . . .	STANDARD CASES	(1)	(1)
SALTED . . . . .	POUNDS	849,550	420,205
SMOKED . . . . .	DO	526,100	208,640
DRIED [INCLUDES FREEZE-DRIED] . . . . .	DO	(1)	(1)
LUTEFISK . . . . .	DO	862,100	229,635
CUSK:			
FILLETS:			
FRESH . . . . .	DO	256,763	77,436
FROZEN . . . . .	DO	69,021	20,699
SALTED . . . . .	DO	(1)	(1)
EELS, SMOKED . . . . .	DO	167,500	149,300
FLOUNDER:			
FILLETS:			
FRESH . . . . .	DO	33,209,497	12,549,775
FROZEN . . . . .	DO	15,344,146	4,907,528
BREADED AND COOKED . . . . .	DO	2,205,355	1,063,976
SPECIALTIES, FROZEN [STUFFED, BREADED WHOLE, SAUCES, ETC.] . . . . .	DO	1,283,529	868,659
DRIED . . . . .	DO	(1)	(1)
GROUPER:			
FILLETS:			
FRESH . . . . .	DO	167,417	75,578
FROZEN . . . . .	DO	294,612	130,799
STEAKS:			
FRESH . . . . .	DO	121,582	47,315
FROZEN . . . . .	DO	663,096	265,041
HADDOCK:			
FILLETS:			
FRESH . . . . .	DO	23,597,572	9,131,439
FROZEN . . . . .	DO	13,733,036	4,578,181
BREADED AND COOKED, FROZEN . . . . .	DO	842,312	418,448

SEE FOOTNOTE AT END OF TABLE.

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## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		QUANTITY	VALUE
<b>HADDOCK - CONTINUED:</b>			
SPECIALTIES:			
FROZEN DINNERS . . . . .	POUNDS	780,702	\$449,169
CANNED (FINNAN HADDIE, CREAMED) . . . . .	STANDARD CASES	(1)	{1}
SMOKED:			
FILLETS . . . . .	POUNDS	(1)	{1}
FINNAN HADDIES . . . . .	DO	180,650	80,325
HAKE:			
FILLETS:			
FRESH . . . . .	DO	267,081	60,884
FROZEN . . . . .	DO	142,790	25,350
SALTED . . . . .	DO	(1)	{1}
HALIBUT (INCLUDES ALASKA PRODUCTION):			
FILLETS, FRESH AND FROZEN . . . . .	DO	1,558,507	782,832
STEAKS, FROZEN . . . . .	DO	8,001,132	3,777,327
SPECIALTIES, FROZEN (AU GRATIN, DINNERS, ETC.) . . . . .	DO	(1)	{1}
CANNED, SMOKED . . . . .	STANDARD CASES	7	420
SMOKED . . . . .	POUNDS	480,870	169,805
HERRING, LAKE:			
FILLETS:			
FRESH AND FROZEN . . . . .	DO	33,750	9,008
BREADED . . . . .	DO	(1)	{1}
SALTED . . . . .	DO	653,590	65,779
SMOKED . . . . .	DO	134,418	40,584
HERRING, SEA:			
CANNED:			
MAINE SARDINES . . . . .	STANDARD CASES	865,751	7,583,821
SPECIALTIES (TIDBITS, SNACKS, AND SPREADS) . . . . .	DO	8,100	100,741
SALTED:			
BRINED . . . . .	POUNDS	(1)	{1}
PICKLED . . . . .	DO	10,621,557	4,684,609
SMOKED . . . . .	DO	454,442	138,087
SPECIALTIES, CURED AND REFRIGERATED (PARTY SNACKS, BISMARCK, ETC.) . . . . .	DO	7,455,796	4,316,860
SALTED EGGS (WITH KELP) . . . . .	DO	274,600	162,000
MEAL AND SCRAP . . . . .	TONS	5,881	1,102,522
OIL . . . . .	1,000 POUNDS	10,954	785,155
KING MACKEREL:			
STEAKS, FROZEN . . . . .	POUNDS	92,000	34,670
SMOKED . . . . .	DO	(1)	{1}
LAKE TROUT:			
FILLETS:			
FRESH . . . . .	DO	53,145	35,130
FROZEN . . . . .	DO	23,690	13,622
SMOKED . . . . .	DO	24,960	20,373
LINGOON FILLETS:			
FRESH . . . . .	DO	923,578	218,301
FROZEN . . . . .	DO	527,235	132,583
LUMPFISH CAVIAR, CANNED . . . . .	STANDARD CASES	(1)	{1}
MACKEREL:			
ATLANTIC:			
FILLETS, FRESH AND FROZEN . . . . .	POUNDS	24,475	7,111
CANNED . . . . .	STANDARD CASES	(1)	{1}
SALTED . . . . .	POUNDS	(1)	{1}
SMOKED . . . . .	DO	82,415	35,580
JACK:			
CANNED . . . . .	STANDARD CASES	620,554	5,224,656
SALTED (DRIED) . . . . .	POUNDS	34,105	24,253
SMOKED . . . . .	DO	(1)	{1}
PACIFIC:			
CANNED . . . . .	STANDARD CASES	250,269	1,535,184
SALTED (DRIED) . . . . .	POUNDS	(1)	{1}
SMOKED . . . . .	DO	(1)	{1}
MARLIN, SMOKED . . . . .	DO	(1)	{1}
MENHADEN:			
MEAL AND SCRAP . . . . .	TONS	160,349	20,001,220
OIL . . . . .	1,000 POUNDS	157,730	11,734,935
SOLUBLES . . . . .	TONS	68,738	4,054,981
MULLET:			
FILLETS, FRESH AND FROZEN . . . . .	POUNDS	(1)	{1}
CANNED . . . . .	STANDARD CASES	(1)	{1}

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GENERAL REVIEW

## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		QUANTITY	VALUE
<b>MULLET - CONTINUED:</b>			
SALTED:			
FISH . . . . .	POUNDS	297,900	\$33,128
ROE . . . . .	DO	18,750	14,168
SMOKED . . . . .	DO	{1}	{1}
SPECIALTIES, CURED AND REFRIGERATED . . . . .	DO	{1}	{1}
OCEAN PERCH:			
ATLANTIC FILLETS:			
FRESH . . . . .	DO	428,003	121,463
FROZEN . . . . .	DO	23,386,520	6,202,712
BREADED, RAW AND COOKED, FROZEN . . . . .	DO	1,446,100	573,051
PACIFIC FILLETS:			
FRESH . . . . .	DO	2,191,633	483,975
FROZEN . . . . .	DO	3,341,832	799,142
PADDLEFISH, SMOKED . . . . .	DO	18,440	15,420
PIKE OR PICKEREL FILLETS:			
FRESH AND FROZEN . . . . .	DO	50,300	24,126
BREADED, FROZEN . . . . .	DO	{1}	{1}
POLLOCK:			
FILLETS:			
FRESH . . . . .	DO	1,488,212	353,440
FROZEN . . . . .	DO	1,608,977	365,417
BREADED AND COOKED . . . . .	DO	{1}	{1}
SALTED . . . . .	DO	15,250	4,026
SMOKED . . . . .	DO	{1}	{1}
DRIED . . . . .	DO	{1}	{1}
POMPANO FILLETS, FROZEN . . . . .	DO	{1}	{1}
ROCKFISH:			
FILLETS:			
FRESH . . . . .	DO	2,707,576	587,095
FROZEN . . . . .	DO	1,462,765	330,951
SMOKED . . . . .	DO	{1}	{1}
SABLETISH:			
FILLETS, FROZEN . . . . .	DO	{1}	{1}
STEAKS, FRESH AND FROZEN . . . . .	DO	{1}	{1}
SPECIALTIES, FROZEN (IN SAUCES) . . . . .	DO	11,375	8,900
SALTED . . . . .	DO	143,100	54,010
SMOKED . . . . .	DO	3,014,167	2,160,880
SALMON:			
FILLETS, FROZEN . . . . .	DO	864,500	581,600
STEAKS, FROZEN . . . . .	DO	1,115,250	763,136
CANNED:			
CHINOOK OR KING . . . . .	STANDARD CASES	95,804	3,695,711
CHUM OR KETA . . . . .	DO	724,459	13,032,634
PINK . . . . .	DO	1,940,061	39,698,211
RED OR SOCKEYE . . . . .	DO	776,894	32,474,213
SILVER OR COHO . . . . .	DO	219,066	6,728,886
STEELHEAD . . . . .	DO	2,914	131,062
TOTAL . . . . .	DO	3,759,198	95,760,717
SMOKE:			
CAVIAR . . . . .	DO	1,840	147,120
EGGS FOR BAIT . . . . .	DO	5,952	549,329
SPECIALTIES (SPREADS AND SALTED LIVERS) . . . . .	DO	21,906	2,162,995
SALTLED:			
MILD-CURED . . . . .	POUNDS	5,169,850	4,532,800
CAVIAR . . . . .	DO	504,936	508,362
EGGS FOR BAIT . . . . .	DO	2,623,006	1,275,053
SPECIALTIES (SALTED BELLIES, ROE IN WINE SAUCE) . . . . .	DO	12,475	16,926
SMOKED . . . . .	DO	11,364,722	17,501,797
OIL . . . . .	1,000 POUNDS	491	43,115
SARDINES, PACIFIC:			
CANNED . . . . .	STANDARD CASES	120,850	1,029,903
SALTED . . . . .	POUNDS	{1}	{1}
MEAL AND SCRAP . . . . .	TONS	{1}	{1}
OIL . . . . .	1,000 POUNDS	{1}	{1}
SAUER FILLETS:			
FRESH . . . . .	POUNDS	393,200	287,960
FROZEN . . . . .	DO	459,200	313,650
SCUP OR PORGY FILLETS, FRESH . . . . .	DO	{1}	{1}

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GENERAL REVIEW

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## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		QUANTITY	VALUE
YELLOW PERCH FILLETS:			
FRESH . . . . .	POUNDS	2,462,652	\$1,584,491
FROZEN . . . . .	DO	604,198	332,937
BREADED, FROZEN . . . . .	DO	310,100	223,085
YELLOW PIKE FILLETS:			
FRESH . . . . .	DO	720,003	568,099
FROZEN . . . . .	DO	659,500	471,450
BREADED, FROZEN . . . . .	DO	(1)	(1)
CRABS:			
BLUE, HARD (INCLUDES ROCK CRABS):			
FRESH AND FROZEN COOKED MEAT . . . . .	DO	16,244,243	19,100,549
SPECIALTIES, FROZEN:			
CAKES AND DEVILED . . . . .	DO	6,131,073	4,468,469
OTHER (AU GRATIN, STUFFED, ROLLS, STICKS, ETC.) . . . . .	DO	1,514,786	1,031,930
CANNED:			
REGULAR . . . . .	STANDARD CASES	49,848	1,143,420
SPECIALTIES (BISQUE, DEVILED, DIPS, ETC.) . . . . .	DO	16,319	248,339
BACK SHELLS, CLEANED AND POLISHED . . . . .	-	-	46,103
DUNGENESS:			
FRESH AND FROZEN:			
COOKED MEAT . . . . .	POUNDS	4,331,926	4,205,853
SECTIONS . . . . .	DO	2,701,300	1,291,950
CANNED:			
REGULAR . . . . .	STANDARD CASES	19,885	679,562
SPECIALTIES . . . . .	DO	140	8,198
KING:			
FRESH AND FROZEN:			
COOKED MEAT . . . . .	POUNDS	12,311,200	12,209,510
SECTIONS . . . . .	DO	6,207,000	3,226,580
CANNED, REGULAR . . . . .	STANDARD CASES	267,060	6,813,482
FREEZE-DRIED . . . . .	POUNDS	(1)	(1)
STONE CLAWS, COOKED, FROZEN . . . . .	DO	55,350	52,345
TANNER, WHOLE, FROZEN . . . . .	DO	12,800	3,840
MEAL AND SCRAP . . . . .	TONS	9,723	439,440
CRAWFISH:			
COOKED MEAT, FRESH . . . . .	POUNDS	43,838	59,757
SPECIALTIES:			
FRESH AND FROZEN (BISQUE) . . . . .	DO	(1)	(1)
CANNED (BISQUE) . . . . .	STANDARD CASES	1,162	24,491
LOBSTERS:			
NORTHERN:			
FRESH AND FROZEN, COOKED MEAT . . . . .	POUNDS	1,026,299	3,640,137
FROZEN, WHOLE . . . . .	DO	(1)	(1)
SPECIALTIES:			
FROZEN (COCKTAILS, LOBSTERETTES, NEWBURGS, ETC.) . . . . .	DO	561,510	730,705
CANNED (MEAT, DEVILED, DIP, NEWBURGS, ETC.) . . . . .	STANDARD CASES	15,197	301,562
SPINY, FRESH AND FROZEN (WHOLE AND TAILS) . . . . .	POUNDS	1,892,658	1,872,660
SHRIMP, FRESH AND FROZEN:			
RAW, HEADLESS . . . . .	DO	64,536,864	52,895,063
PEELED (INCLUDING DEVILED):			
RAW . . . . .	DO	23,133,746	26,107,154
COOKED . . . . .	DO	3,559,428	4,958,053
BREADED (RAW AND COOKED) . . . . .	DO	91,333,152	63,387,788
SPECIALTIES:			
FRESH COCKTAILS (REFRIGERATED) . . . . .	DO	2,984,594	2,519,974
FROZEN (DIPS, BURGERS, SAUCES, STUFFED, ETC.) . . . . .	DO	4,774,249	3,512,140
CANNED:			
REGULAR . . . . .	STANDARD CASES	649,332	12,985,850
SPECIALTIES . . . . .	DO	12,235	245,637
CURED:			
FREEZE-DRIED . . . . .	POUNDS	(1)	(1)
SUN DRIED . . . . .	DO	226,166	460,902
SMOKED . . . . .	DO	(1)	(1)
MEAL AND SCRAP . . . . .	TONS	377	15,430
ABALONE:			
STEAKS . . . . .	POUNDS	603,991	955,704
SPECIALTIES, FROZEN (BREADED PATTIES) . . . . .	DO	(1)	(1)

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GENERAL REVIEW

## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		QUANTITY	VALUE
SEA BASS:			
FILLETS AND STEAKS, FRESH AND FROZEN . . . . .	POUNDS	175,219	\$61,731
SMOKED . . . . .	DO	(1)	(1)
SEA TROUT FILLETS, FRESH AND FROZEN . . . . .	DO	99,501	45,620
SHAD:			
FILLETS, FRESH AND FROZEN . . . . .	DO	84,336	58,214
CANNED:			
FISH . . . . .	STANDARD CASES	1,235	10,886
ROE . . . . .	DO	670	38,592
SMOKED . . . . .	POUNDS	94,600	38,640
SHARIK, SMOKED . . . . .	DO	(1)	(1)
SIMELT:			
BREADED AND COOKED, FROZEN . . . . .	DO	{1}	{1}
CANNED, SMOKED . . . . .	STANDARD CASES	{1}	{1}
SMOKED . . . . .	POUNDS	{1}	{1}
DRIED . . . . .	DO	{1}	{1}
SNAPPER, RED:			
FILLETS:			
FRESH . . . . .	DO	60,128	67,747
FROZEN . . . . .	DO	374,635	283,142
STEAKS, FRESH AND FROZEN . . . . .	DO	136,800	76,680
SPANISH MACKEREL FILLETS, FRESH AND FROZEN . . . . .	DO	939,520	318,271
STRIPED BASS FILLETS, FRESH AND FROZEN . . . . .	DO	(1)	(1)
STURGEON:			
CANNED:			
SMOKED AND SPREADS . . . . .	STANDARD CASES	1,040	61,655
CAVIAR . . . . .	DO	(1)	(1)
SMOKED . . . . .	POUNDS	1,476,038	2,723,208
SUCKERS, SMOKED . . . . .	DO	(1)	(1)
SWORDFISH:			
STEAKS, FROZEN . . . . .	DO	1,163,726	605,891
SPECIALTIES, DINNERS . . . . .	DO	(1)	(1)
SMOKED . . . . .	DO	13,454	10,925
TUNA:			
SPECIALTIES, FROZEN (PIES, WITH NOODLES, ETC.).	DO	1,027,567	246,574
CANNED:			
ALBACORE . . . . .	STANDARD CASES	5,982,266	77,754,593
LIGHTMEAT { INCLUDING TONNO } . . . . .	DO	11,705,737	139,829,972
TOTAL . . . . .	DO	17,689,003	217,584,565
SPECIALTIES:			
SMOKED, CREAMED AND SPREADS . . . . .	DO	8,213	98,796
WITH NOODLES . . . . .	DO	48,341	888,894
SMOKED . . . . .	POUNDS	38,910	38,230
DRIED WITH SALT . . . . .	DO	88,738	95,648
TUNA LIKE:			
FILLETS, FRESH AND FROZEN . . . . .	DO	{1}	{1}
CANNED . . . . .	STANDARD CASES	24,674	177,062
SMOKED . . . . .	POUNDS	22,205	18,531
WHITE BASS:			
CANNED:			
SMOKED . . . . .	STANDARD CASES	{1}	{1}
WHITEBASS FILLETS:			
FRESH . . . . .	DO	117,578	61,106
FROZEN . . . . .	DO	60,500	28,590
WHITEFISH:			
FILLETS:			
FRESH . . . . .	DO	306,652	235,032
FROZEN . . . . .	DO	70,960	45,976
CANNED:			
FISH . . . . .	STANDARD CASES	{1}	{1}
CAVIAR . . . . .	DO	1,571	120,604
SMOKED . . . . .	POUNDS	2,918,430	2,525,845
WHITING:			
FILLETS:			
FRESH . . . . .	DO	2,778	696
FROZEN . . . . .	DO	2,091,581	458,846
SMOKED . . . . .	DO	608,200	229,459
WOLFGH FILLETS:			
FRESH . . . . .	DO	19,904	5,811
FROZEN . . . . .	DO	82,441	25,812

SEE FOOTNOTE AT END OF TABLE.

{CONTINUED ON NEXT PAGE}

# GENERAL REVIEW

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## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		QUANTITY	VALUE
CLAMS:			
SHUCKED, FRESH AND FROZEN:			
HARD (INCLUDING SURF AND OCEAN QUAHOG, WHOLE AND MINCED) . . . . .	GALLONS	1,891,957	\$4,964,238
RAZOR . . . . .	DO	14,393	110,592
SOFT . . . . .	DO	786,487	4,295,543
SPECIALTIES, FROZEN:			
BREADED (INCLUDING DEVILED) . . . . .	POUNDS	2,148,992	2,228,817
OTHER (CROQUETTES, CUTLETS, STICKS, ETC.) . . . . .	DO	1,514,346	824,471
CANNED:			
WHOLE AND MINCED:			
HARD, SOFT AND SURF . . . . .	STANDARD CASES	577,418	6,662,543
RAZOR . . . . .	DO	1,151	31,171
CHODDER, CREAM JUICE (HARD, SURF AND SOFT)	DO	1,722,318	11,262,788
SPECIALTIES . . . . .	DO	65,350	1,169,605
CONCH MEAT:			
FROZEN . . . . .	POUNDS	{1}	{1}
STEAMED . . . . .	DO	{1}	{1}
CANNED:			
MEAT . . . . .	STANDARD CASES	5,597	162,795
SPECIALTIES . . . . .	DO	{1}	{1}
MUSSELS, SEA:			
SPECIALTIES, FROZEN . . . . .	POUNDS	{1}	{1}
CANNED . . . . .	STANDARD CASES	{1}	{1}
MUSSEL SHELL:			
BUTTONS . . . . .	GROSS	223,300	242,356
CHIPS . . . . .	TONS	848	48,577
LIME . . . . .	DO	{1}	{1}
OYSTERS:			
EASTERN:			
SHUCKED, FRESH AND FROZEN . . . . .	GALLONS	4,139,486	30,708,800
STEAMED . . . . .	DO	112,502	2,162,580
FROZEN:			
BREADED . . . . .	POUNDS	3,110,592	3,166,179
SPECIALTIES (BURGERS, PIES, STEWS, STUFFED, ETC.) . . . . .	DO	1,058,431	451,262
CANNED:			
REGULAR . . . . .	STANDARD CASES	359,907	4,383,403
SPECIALTIES (BISQUE, SOUP AND STEWS) . . . . .	DO	1,082	16,874
SMELL PRODUCTS:			
CRUSHED SHELL FOR POULTRY GRIT . . . . .	TONS	287,531	4,300,568
LIME, BURNED AND UNBURNED . . . . .	DO	66,099	506,808
PACIFIC:			
SHUCKED, FRESH AND FROZEN . . . . .	GALLONS	1,126,200	4,366,361
BREADED . . . . .	POUNDS	62,765	48,141
CANNED:			
REGULAR . . . . .	STANDARD CASES	62,354	908,277
SPECIALTIES:			
SMOKED . . . . .	DO	307	27,949
OTHER (SOUP, STEMS, AND CASSEROLES) . . . . .	DO	114,737	2,122,291
SMELL PRODUCTS:			
CRUSHED SHELL FOR POULTRY GRIT . . . . .	TONS	7,359	92,677
LIME, BURNED AND UNBURNED . . . . .	DO	1,564	14,871
WESTERN OYSTERS, SHUCKED . . . . .	GALLONS	6,260	168,755
SCALLOPS:			
BAY, SHUCKED, FRESH AND FROZEN . . . . .	DO	176,545	1,840,916
SEA, FRESH AND FROZEN MEATS . . . . .	POUNDS	4,832,894	2,977,815
BREADED:			
RAW . . . . .	DO	3,170,227	2,061,555
COOKED . . . . .	DO	3,364,566	2,612,947
SPECIALTIES, FROZEN (DINNERS, ETC.) . . . . .	DO	989,310	692,638
SQUID:			
FROZEN:			
NATURAL . . . . .	DO	{1}	{1}
IN TOMATO SAUCE . . . . .	DO	{1}	{1}
CANNED . . . . .	STANDARD CASES	214,649	887,484
TURTLE:			
STEAKS, FROZEN . . . . .	POUNDS	31,340	23,537
CANNED (MEAT, SOUP AND STEWS) . . . . .	STANDARD CASES	1,343	271,555
OIL . . . . .	1,000 POUNDS	{1}	{1}

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

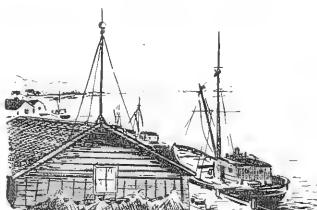
## GENERAL REVIEW

## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		QUANTITY	VALUE
WHALE:			
MEAT, FROZEN . . . . .	POUNDS	4,521,766	\$382,521
MEAT . . . . .	TONS	1,664	155,359
OIL:			
SPERM . . . . .	1,000 POUNDS	401	25,684
OTHER . . . . .	DO	2,759	169,926
UNCLASSIFIED:			
PACKAGED FRESH AND FROZEN:			
FISH:			
FILLETS AND STEAKS, RAW, NOT BREADED . . . . .	POUNDS	682,106	355,269
STICKS, BREADED:			
RAW . . . . .	DO	5,753,703	1,989,071
COOKED . . . . .	DO	67,810,261	27,995,699
FILLETS, STEAKS AND PORTIONS, BREADED			
(RAW AND COOKED) . . . . .	DO	104,836,461	36,106,040
PORTIONS, RAW, NOT BREADED . . . . .	DO	2,541,264	910,002
CAKES, RAW AND COOKED . . . . .	DO	1,435,510	667,432
FISH AND SHELLFISH SPECIALTIES . . . . .	DO	13,879,059	9,855,711
CANNED FISH AND SHELLFISH:			
CAKES . . . . .	STANDARD CASES	60,372	845,087
GELIFILFISH . . . . .	DO	311,954	5,095,732
ANIMAL FOOD . . . . .	DO	7,341,670	43,470,700
MISCELLANEOUS (CHONDERS, GUMBO AND UNCLASSIFIED SHELLFISH IN SOUP, STEWS, ETC.) . . . . .	DO	114,966	2,813,552
CURED:			
SMOKED . . . . .	POUNDS	392,435	261,081
SALTED . . . . .	DO	676,604	186,593
CURED (INCLUDES FREEZE-DRIED) . . . . .	DO	80,060	505,068
MEAL AND SCRAPS:			
TUNA AND MACKEREL . . . . .	TONS	21,113	2,229,443
UNCLASSIFIED . . . . .	DO	31,688	3,914,916
OIL:			
BODY:			
TUNA AND MACKEREL . . . . .	1,000 POUNDS	4,816	272,178
UNCLASSIFIED . . . . .	DO	2,918	191,599
LIVER . . . . .	DO	23	24,000
FISH SOLUBLES . . . . .	TONS	23,711	1,555,979
MARINE PEARL SHELL BUTTONS . . . . .	GROSS	406,917	1,004,344
OTHER (AGAR-AGAR, FISH FEED PELLETS, LIQUID FERTILIZER, IRISH MOSS EXTRACT, KELP PRODUCTS, PEARL ESSENCE, ETC.) . . . . .	-	-	16,656,549
GRAND TOTAL . . . . .	-	-	964,720,194

<sup>1/</sup> INCLUDED WITH UNCLASSIFIED ITEMS.

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 SALTED ALEWIVES, MILD CURED SALMON AND STEAMED OYSTERS, ETC., ARE SHOWN IN AN INTERMEDIATE AND ALSO A MORE ADVANCED STAGE OF PROCESSING. THE LIME AND POULTRY FEED MANUFACTURED FROM SHELL PRODUCTS WERE PROCESSED FROM LIVE AND REEF MOLLUSK SHELLS THAT ARE NOT INCLUDED IN THE CATCH STATISTICS.



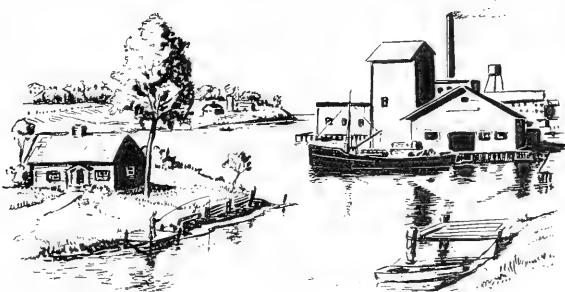
# GENERAL REVIEW

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## SUMMARY OF MANUFACTURED FISHERY PRODUCTS, 1964

(THOUSANDS OF DOLLARS)

ITEM	QUANTITY	VALUE
PACKAGED PRODUCTS, FRESH AND FROZEN:		
FISH:		
NOT BREADED:		
FILLETS AND STEAKS, RAW . . . . .	1,000 POUNDS	161,363
OTHER (INCLUDES WHALE MEAT FOR ANIMAL FEEDING) . . . . .	DO	11,047
BREADED, RAW AND COOKED:		
STICKS . . . . .	DO	73,574
FILLETS, PORTIONS, AND STEAKS . . . . .	DO	109,416
SHELLFISH:		
NOT BREADED . . . . .	DO	214,007
BREADED . . . . .	DO	103,327
SPECIALTIES, FISH AND SHELLFISH . . . . .	DO	35,756
TOTAL FRESH AND FROZEN . . . . .	DO	708,492
CANNED:		
FISH, SHELLFISH, ETC., FOR HUMAN CONSUMPTION . . . . .	DO	742,114
SALMON EGGS FOR BAIT . . . . .	DO	1,051
ANIMAL FOOD . . . . .	DO	352,400
TOTAL BAIT AND ANIMAL FOOD . . . . .	DO	353,451
TOTAL CANNED . . . . .	DO	1,095,565
CURED:		
SALTED . . . . .	DO	37,015
SMOKED . . . . .	DO	27,213
LUTEFISK . . . . .	DO	862
DRIED (INCLUDES FREEZE-DRIED PRODUCTS) . . . . .	DO	429
TOTAL CURED . . . . .	DO	65,519
INDUSTRIAL:		
MEAL AND SCRAP (2,000 POUNDS PER TON) . . . . .	DO	470,504
OIL, BODY AND LIVER (7.75 POUNDS PER GALLON) . . . . .	DO	180,198
FISH SOLUBLES . . . . .	DO	186,592
OYSTER SHELL LIME AND POULTRY GRIT . . . . .	DO	725,086
MARINE PEARL SHELL AND MUSSEL SHELL BUTTONS . . . . .	1,000 GROSS	634
OTHER (AGAR-AGAR, FISH FEED PELLETS, ANIMAL FEEDS, IRISH MOSS EXTRACTS, KELP PRODUCTS, PEARL ESSENCE, ETC.) . . . . .	-	-
TOTAL INDUSTRIAL PRODUCTS . . . . .	-	15,721
GRAND TOTAL . . . . .	-	69,911
	-	964,720



# GENERAL REVIEW

## CANNED FISHERY PRODUCTS, 1964

The pack of canned fishery products by 324 plants in the United States, American Samoa, and Puerto Rico was 35.8 million standard cases (1.1 billion pounds) valued at \$436.7 million to the packers. Compared with 1963, production was up 1.2 million cases and \$15.1 million. The gain resulted mainly from a record pack of tuna and increases in the packs of salmon and animal food. The packs of mackerel, Maine sardines, crab meat, clam chowder and juice, oysters, and shrimp were smaller than in the previous year.

The pack for human consumption (742.1 million pounds) was 13.2 million pounds more than in 1963, while production of bait and animal food (353.5 million pounds) was 46.5 million pounds greater. Three items--salmon, tuna, and animal food--accounted for 82 percent of the total value received by producers of canned fishery products in 1964. Animal food containing less than 10 pounds of fish per standard case of 48 pounds (4.0 million cases valued at \$17.3 million) has been excluded.

**Tuna:**--The pack reached a record 17.7 million cases (349.8 million pounds) valued at a new high of \$217.6 million--an increase of 1.1 million cases (23.1 million pounds) and \$16 million compared with 1963. The Pacific Coast led with 61 percent of the pack, followed by Puerto Rico, 27 percent; Hawaii and American Samoa, 8 percent; and Atlantic Coast plants, 4 percent. Although the 1964 domestic catch of tuna was less than in 1963, imports of frozen tuna for canning were up sharply. Production and consumption of tuna in 1964 was at a high level and consumers bought tuna at prices that reflected the popularity of the product.

**Salmon:**--The pack of salmon was 3.8 million cases (180.4 million pounds) valued at \$95.8 million. Compared with 1963, this was an increase of 464,000 cases and \$7.8 million. Alaska accounted for 94 percent of the volume and 91 percent of the value. Production in Washington was low because of light runs of pink salmon in even-numbered years.

**Mackerel:**--The pack of mackerel (1.1 million cases valued at \$6.8 million) was 205,000 cases less than in 1963. Jack mackerel accounted for 77 percent of the volume and value of the total pack. There might have been a larger pack had not fishing been curtailed for two months pending the outcome of negotiations for an increase in ex-vessel price.

**Sardines:**--The 1964 pack of Pacific sardines (121,000 cases valued at \$1.0 million) was one of the smallest on record. Except for a good showing of fish in Southern California on the season's opening night, sardines failed to appear in large numbers and only scattered small catches were made during the balance of the year.

In Maine, the pack was the second smallest since 1938--production was down 48 percent in volume and 43 percent in value, compared with 1963.

**Clams:**--The 1964 pack of clams and clam products was 2.3 million cases valued at \$18.0 million; in 1963, the pack was 2.2 million cases valued at \$17.4 million. Whole and minced clams accounted for 25 percent of the pack; chowders and juices, 75 percent.

**Shrimp:**--The pack of shrimp was 649,000 cases valued at \$13.0 million--a decline of 39 percent in volume and 34 percent in value, compared with 1963. The 1964 pack was the second lowest since 1948. Production in the Gulf States and on the Pacific Coast was less than in the previous year.

**Crabs:**--The pack of 336,793 cases valued at \$8.6 million was 40,000 cases (11 percent) and \$1.7 million (16 percent) less than the record 1963 pack. Compared with the previous year, the pack of blue crab meat along the Atlantic and Gulf Coasts was down 9 percent, and the combined packs of Dungeness and king crab meat in Washington and Oregon were down 30 percent--primarily as a result of the continued scarcity of Dungeness crabs. There was a large decrease in Alaska's spectacular king crab industry. For the first year since 1955, the pack failed to increase over the previous year's production. There was a record catch of king crabs in 1964, but a disastrous earthquake crippled canning operations.

# GENERAL REVIEW

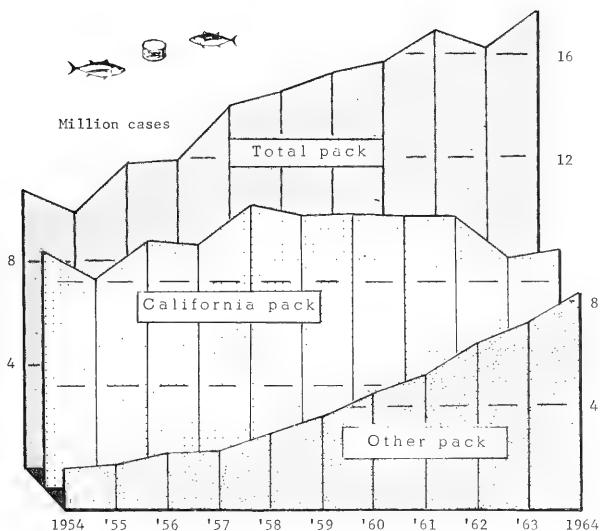
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**Oysters:**--The oyster pack was 422,000 cases valued at \$5.3 million--24,000 cases and \$300,000 less than in 1963. Production of oyster specialties (smoked, stew, bisque, and soup) was 116,000 cases, compared with 172,000 cases in the previous year.

**Animal Food:**--The 1964 pack of animal food containing 10 pounds or more of raw fish per standard case (48 one pound cans) was 7.3 million cases valued at \$43.5 million--an increase of 15 percent in volume and 11 percent in value, compared with 1963.



U. S. CANNED TUNA PACK, 1954-64



## GENERAL REVIEW

## SUMMARY OF PRODUCTION, BY COMMODITIES, 1964

PRODUCT	NUMBER OF PLANTS	STANDARD CASES	POUNDS PER CASE	POUNDS	VALUE
CANNED PRODUCTS; FOR HUMAN CONSUMPTION:					
SALMON . . . . .	108	3,759,198	48	180,441,504	\$95,760,717
SARDINES: MAINE . . . . .	23	865,751	23.4	20,258,573	7,583,821
PACIFIC . . . . .	7	120,850	45	5,438,250	1,029,903
TUNA: SOULD . . . . .	32	4,519,498	21	94,907,568	61,010,912
CHUNKS . . . . .	25	11,915,930	19.5	232,380,635	147,213,291
FLAKES AND GRATED . . . . .	26	1,253,665	16	22,565,970	9,360,555
TOTAL . . . . .	1/ 35	17,689,003	-	349,834,173	217,584,565
TUNALIKE FISH . . . . .					
ALEWIVES . . . . .	5	24,674	21-19.5-18	466,743	177,062
MACKEREL . . . . .	8	74,581	45	3,356,145	300,402
SHAD . . . . .	9	1,070,823	45	48,187,035	6,760,040
FISH CAKES (PRINCIPALLY GROUND FISH). . . . .	5	1,235	45	55,575	10,586
GEFILET FISH . . . . .	13	60,372	48	2,897,856	845,067
SALMON, SMOKED . . . . .	5	311,954	48	14,973,792	5,095,732
STURGEON, SMOKED AND SPREADS . . . . .	34	1,840	48	88,320	147,120
TUNA SPECIALTIES: WITH CREAMED AND SPREADS . . . . .	15	1,040	48	49,920	61,655
WITH NOODLES . . . . .	7	8,213	48	394,224	98,796
ANCHOVY PASTE . . . . .	3	491,341	48	2,320,368	889,694
MISCELLANEOUS FISH SPECIALTIES . . . . .	4	1,058	48	51,264	73,235
FISH ROE AND CAVIAR . . . . .	23	97,895	48	4,608,960	1,308,963
	25	66,390	48	3,186,720	2,764,305
TOTAL FISH . . . . .	-	24,203,228	-	636,699,422	340,491,183
CRAB MEAT . . . . .	30	336,793	19.5	6,567,464	8,636,464
CRAB MEAT SPECIALTIES . . . . .	10	16,459	48	790,032	256,537
LOBSTER MEAT AND SPECIALTIES . . . . .	5	15,197	48	729,456	301,562
SHRIMP SPECIALTIES . . . . .	33	645,332	15	2/ 9,739,980	12,985,850
CLAMS AND CLAM PRODUCTS: WHOLE . . . . .	11	12,235	48	587,280	245,637
MINCED . . . . .	8	15,426	15	231,390	231,165
CHOWDER . . . . .	23	563,143	15	3/ 8,447,145	6,462,549
JUICE . . . . .	17	1,600,867	30	3/ 48,026,010	10,676,125
	12	121,451	30	3/ 3,643,530	586,663
TOTAL . . . . .	1/ 42	2,300,887	-	3/ 60,348,075	17,956,502
CLAM SPECIALTIES . . . . .					
CONCH MEAT . . . . .	16	65,350	48	3,136,800	1,189,605
OYSTERS . . . . .	3	5,597	48	266,656	182,795
OSTRICH SPECIALTIES: SMOKED . . . . .	26	422,261	14	2/ 5,911,654	5,291,680
STEWS . . . . .	7	307	48	14,736	27,949
BISQUE AND SOUPS . . . . .	6	113,169	48	5,432,112	2,090,954
SOUD . . . . .	7	2,650	48	127,200	48,211
TURTLE MEAT, SOUPS AND STEWS . . . . .	9	214,649	48	10,303,152	887,484
MISCELLANEOUS SHELLFISH SPECIALTIES . . . . .	9	17,043	48	818,064	271,155
	9	13,327	48	639,696	162,405
TOTAL SHELLFISH . . . . .	-	4,185,256	-	105,414,357	50,534,790
TOTAL FOR HUMAN CONSUMPTION . . . . .	-	26,388,484	-	742,113,779	391,025,973
BAIT AND ANIMAL FOOD: ANIMAL FOOD . . . . .	56	7,341,670	48	352,400,160	43,470,700
SALMON EGGS FOR BAIT . . . . .	9	21,906	48	1,051,488	2,162,995
TOTAL BAIT AND ANIMAL FOOD . . . . .	1/ 65	7,363,576	-	353,451,648	45,633,695
GRAND TOTAL . . . . .	1/324	35,752,060	-	1,095,565,427	436,659,668

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, D.C. 20240.

# GENERAL REVIEW

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## SUMMARY OF PRODUCTION, BY STATES, 1964

STATE	CANNED FISHERY PRODUCTS	
	POUNDS	VALUE
MAINE . . . . .	44,039,868	\$13,713,179
MASSACHUSETTS, RHODE ISLAND, AND CONNECTICUT . . . . .	75,006,034	9,180,130
NEW YORK . . . . .	10,130,133	4,790,177
PENNSYLVANIA AND DELAWARE . . . . .	39,393,759	13,536,838
MARYLAND . . . . .	15,646,866	4,845,724
VIRGINIA . . . . .	16,138,271	7,343,300
NORTH CAROLINA . . . . .	8,286,562	1,096,807
SOUTH CAROLINA . . . . .	1,211,895	487,296
FLORIDA . . . . .	1,245,999	1,197,972
ALABAMA AND TEXAS . . . . .	120,864	59,457
MISSISSIPPI . . . . .	309,522	348,471
LOUISIANA . . . . .	117,301,379	11,783,732
WISCONSIN . . . . .	10,692,910	12,640,467
ILLINOIS, KANSAS, AND NEBRASKA . . . . .	6,503,932	663,777
OHIO AND MICHIGAN . . . . .	6,294,816	51,022
ALASKA . . . . .	175,917,120	73,272
WASHINGTON . . . . .	29,677,256	94,763,050
OREGON . . . . .	42,319,757	16,966,186
CALIFORNIA . . . . .	341,599,425	20,386,379
HAWAII AND AMERICAN SAMOA . . . . .	32,292,967	137,632,957
PUERTO RICO . . . . .	120,646,340	18,623,540
TOTAL . . . . .	1,095,565,427	436,659,668

## FACTORS USED TO CONVERT STANDARD CASES TO POUNDS

PRODUCT	PRIOR TO 1939	1939 AND 1940	1941	1942	1943
	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
ALEVIRES . . . . .	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
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 1964
	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
ALEVIRES . . . . .	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
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 BULLETINS FOR THE YEARS INDICATED.

# GENERAL REVIEW

## PLANTS PRODUCING CANNED FISHERY PRODUCTS, 1964

AREA AND STATE	NUMBER OF PLANTS
NEW ENGLAND:	
MAINE . . . . .	30
MASSACHUSETTS . . . . .	5
RHODE ISLAND . . . . .	1
CONNECTICUT . . . . .	1
TOTAL . . . . .	37
MIDDLE ATLANTIC:	
NEW YORK . . . . .	11
NEW JERSEY . . . . .	14
PENNSYLVANIA . . . . .	8
DELAWARE . . . . .	1
TOTAL . . . . .	34
CHESAPEAKE BAY:	
MARYLAND . . . . .	5
VIRGINIA . . . . .	9
TOTAL . . . . .	14
SOUTH ATLANTIC AND GULF:	
NORTH CAROLINA . . . . .	6
SOUTH CAROLINA . . . . .	3
FLORIDA . . . . .	4
ALABAMA . . . . .	1
MISSISSIPPI . . . . .	13
LOUISIANA . . . . .	22
TEXAS . . . . .	2
TOTAL . . . . .	51
GREAT LAKES AND MISSISSIPPI RIVER:	
ILLINOIS . . . . .	2
KANSAS . . . . .	1
MICHIGAN . . . . .	1
NEBRASKA . . . . .	1
OHIO . . . . .	2
WISCONSIN . . . . .	3
TOTAL . . . . .	10
PACIFIC COAST:	
ALASKA . . . . .	68
WASHINGTON . . . . .	52
OREGON . . . . .	18
CALIFORNIA . . . . .	23
TOTAL . . . . .	171
HAWAII . . . . .	1
AMERICAN SAMOA . . . . .	2
PUERTO RICO . . . . .	4
GRAND TOTAL . . . . .	324

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## PACK OF SALMON, 1964

(STANDARD CASES)

SPECIES	ALASKA		WASHINGTON	
	CASES	VALUE	CASES	VALUE
CHINOOK OR KING . . . . .	37,759	\$1,260,710	12,913	\$399,794
CHUM OR KETA . . . . .	702,569	12,665,610	21,178	359,372
PINK . . . . .	1,928,231	39,428,970	11,830	269,241
RED OR SOCKEYE . . . . .	715,560	29,428,080	59,736	2,884,432
SILVER OR COHO . . . . .	164,860	4,746,660	25,672	844,034
TOTAL . . . . .	3,549,379	87,530,030	130,329	4,755,873

SPECIES	OREGON		TOTAL	
	CASES	VALUE	CASES	VALUE
CHINOOK OR KING . . . . .	1/45,132	1/ \$2,036,207	95,804	\$3,695,711
CHUM OR KETA . . . . .	412	7,652	724,459	13,032,634
PINK . . . . .	-	-	1,940,061	39,696,211
RED OR SOCKEYE . . . . .	2,498	161,701	776,894	32,474,213
SILVER OR COHO . . . . .	28,504	1,139,192	219,066	6,728,686
STEELHEAD. . . . .	2,914	131,082	2,914	131,062
TOTAL . . . . .	79,490	3,474,814	3,759,196	95,760,717

1/ INCLUDES A SMALL PACK PRODUCED IN CALIFORNIA.

NOTE:—"STANDARD CASES" REPRESENT THE VARIOUS SIZE CANS CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT 1 POUND CANS EACH CONTAINING 16 OUNCES. SALMON WERE CANNED IN 29 PLANTS IN WASHINGTON; 10 IN OREGON AND 69 IN ALASKA, AND 1 IN CALIFORNIA. THE PACK OF SMOKED SALMON IS INCLUDED IN THE TABLE "PACK OF MISCELLANEOUS FISHERY PRODUCTS".

## PACK OF SALMON, BY CAN SIZES, 1964

(STANDARD CASES)

STATE AND SPECIES	CAN SIZE							
	4-POUND TALL		1-POUND TALL		1/2-POUND FLAT		1/4-POUND FLAT	
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
ALASKA:								
CHINOOK OR KING . . . . .	20	\$560	17,690	\$510,180	19,990	\$747,830	59	\$2,120
CHUM OR KETA . . . . .	10,816	206,240	665,242	11,877,430	26,748	560,050	63	1,890
PINK . . . . .	38,242	829,420	1,756,272	35,195,600	131,461	3,395,730	256	8,200
RED OR SOCKEYE . . . . .	4,212	156,350	462,838	17,383,670	186,399	8,469,210	62,211	3,416,650
SILVER OR COHO . . . . .	6,332	182,700	150,936	4,297,960	6,728	231,440	564	34,560
TOTAL . . . . .	59,622	1,377,270	3,054,978	69,265,040	371,326	13,424,300	63,453	3,463,420
WASHINGTON:								
CHINOOK OR KING . . . . .	665	19,721	4,236	74,599	7,513	280,016	499	24,458
CHUM OR KETA . . . . .	1,928	35,624	15,474	249,931	3,590	69,331	186	4,466
PINK . . . . .	1,299	27,918	3,179	60,495	6,324	151,182	1,058	29,646
RED OR SOCKEYE . . . . .	1,431	56,589	11,922	420,367	24,870	1,235,013	20,493	1,172,463
SILVER OR COHO . . . . .	3,262	97,860	3,025	60,987	10,513	346,120	8,872	339,067
TOTAL . . . . .	8,575	237,712	37,836	866,379	52,810	2,081,662	31,108	1,570,120
OREGON:								
CHINOOK OR KING . . . . .	-	-	2,970	79,239	1/37,028	1/1,627,749	5,134	329,219
CHUM OR KETA . . . . .	-	-	335	6,030	77	1,622	-	-
PINK . . . . .	-	-	-	-	420	23,497	2,078	138,204
RED OR SOCKEYE . . . . .	-	-	3,210	85,876	8,239	300,143	17,085	752,173
SILVER OR COHO . . . . .	-	-	-	-	2,209	102,962	28,200	-
STEELHEAD. . . . .	-	-	-	-	-	-	-	-
TOTAL . . . . .	-	-	6,515	171,145	47,973	2,055,873	25,002	1,247,796
GRAND TOTAL . . .	68,197	1,614,982	3,099,329	70,302,564	472,109	17,561,835	119,563	6,281,336

1/ INCLUDES A SMALL PACK PRODUCED IN CALIFORNIA.

# GENERAL REVIEW

## WASHINGTON AND OREGON SALMON PACK, BY DISTRICTS, 1964

(STANDARD CASES)

SPECIES	PUGET SOUND		COLUMBIA RIVER		COASTAL		TOTAL	
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
CHINOOK OR KING . . . . .	4,672	\$88,234	52,620	\$2,328,838	1/ 671	1/ \$23,437	58,163	\$2,440,509
CHUM OR KETA . . . . .	19,499	329,983	2,091	37,041	-	-	21,590	367,024
PINK . . . . .	11,830	269,241	-	-	-	-	11,830	269,241
RED OR SOCKEYE . . . . .	58,196	2,856,066	2,705	172,169	332	17,898	61,234	3,046,133
SILVER OR COHO . . . . .	23,551	777,744	30,478	1,198,947	177	5,535	54,206	1,982,226
STEELHEAD . . . . .	-	-	-	-	2,914	131,062	2,914	131,062
TOTAL . . . . .	117,948	4,321,268	87,895	3,736,995	4,094	177,932	209,937	8,236,195

1/ 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.

## PUGET SOUND SALMON PACK, BY ORIGIN OF FISH, 1964

(STANDARD CASES)

SPECIES	PUGET SOUND FISH	CANADIAN FISH		ALASKAN FISH		TOTAL FISH	
		CASES	CASES	CASES	CASES	CASES	CASES
CHINOOK OR KING . . . . .	1/ 4,872	-	-	-	-	4,872	4,872
CHUM OR KETA . . . . .	8,717	-	-	10,782	19,499	19,499	19,499
PINK . . . . .	268	-	-	11,562	11,830	11,830	11,830
RED OR SOCKEYE . . . . .	42,476	-	-	15,720	58,196	58,196	58,196
SILVER OR COHO . . . . .	19,601	-	-	3,950	23,551	23,551	23,551
TOTAL . . . . .	75,934	-	-	42,014	117,948	117,948	117,948

1/ INCLUDES A SMALL PACK FROM ALASKA FISH.

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, 1964 1/

STYLE OR PACK	STANDARD CASES	VALUE	CAN CONTENTS AND CASE SIZE	ACTUAL CASES	VALUE
IN SOYBEAN OIL . . . . .	759,126	\$6,859,704	3-3/4 OUNCES NET (100 CANS)	747,067	\$6,816,871
IN MUSTARD SAUCE . . . . .	59,299	462,583	15 OUNCES NET (48 CANS) . . .	29,456	252,332
IN TOMATO SAUCE . . . . .	43,389	217,660	OTHER SIZES CONVERTED TO STANDARD CASES . . . . .	62,038	514,618
IN OLIVE OIL . . . . .	3,937	43,854			
TOTAL . . . . .	865,751	7,583,821	TOTAL . . . . .	838,561	7,583,821

1/ INCLUDES SEA HERRING.

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 23 PLANTS IN MAINE.

## PACK OF PACIFIC SARDINES, 1964

STYLE OF PACK	STANDARD CASES	VALUE	CAN CONTENTS AND CASE SIZE	ACTUAL CASES	VALUE
NATURAL . . . . .	29,303	\$187,596	1 POUND CAN:		
IN TOMATO SAUCE . . . . .	72,340	653,045	15 OUNCES NET, OVAL (48 CANS) . . . . .	30,395	\$194,497
IN MUSTARD SAUCE . . . . .	19,207	184,262	15 OUNCES NET, TALL (48 CANS) . . . . .	86,780	795,748
			OTHER SIZES CONVERTED TO STANDARD CASES . . . . .	3,675	39,656
TOTAL . . . . .	120,850	1,029,903	TOTAL . . . . .	120,850	1,029,903

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 7 PLANTS IN CALIFORNIA.

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## PACK OF TUNA, 1964

(STANDARD CASES)

SPECIES	CALIFORNIA		WASHINGTON AND OREGON		ATLANTIC COAST, HAWAII, AND TERRITORIES		TOTAL	
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
ALbacore:								
SOLID PACK . . . . .	963,518	\$12,740,640	722,025	\$10,766,892	1,831,797	\$24,334,754	3,517,340	\$47,842,286
CHUNKS . . . . .	815,585	10,626,949	118,106	2,422,802	1,029,810	13,086,866	1,963,501	26,136,617
FLAKES AND GRATED . . . . .	199,603	1,483,841	95,161	754,887	206,661	1,536,962	501,425	3,775,690
TOTAL . . . . .	1,978,706	24,851,430	935,292	13,944,581	3,068,268	38,958,582	5,982,266	77,754,593
LIGHT MEAT:								
SOLID PACK . . . . .	686,754	9,513,935	2,795	33,710	312,519	3,620,988	1,002,068	13,168,633
CHUNKS . . . . .	6,102,705	74,096,276	553,107	5,356,670	3,296,617	41,621,728	9,952,429	121,076,674
FLAKES AND GRATED . . . . .	524,464	3,891,500	12,089	84,623	215,687	1,608,542	752,240	5,584,665
TOTAL . . . . .	7,313,923	87,503,711	567,991	5,475,003	3,824,823	46,851,258	11,706,737	139,829,972
GRAND TOTAL . . . . .	9,292,629	112,355,141	1,503,283	19,419,584	6,893,091	85,809,840	17,689,003	217,584,565

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. THE PACK OF DIETETIC TUNA IS INCLUDED IN THESE TOTALS. TUNA WERE CANNED IN 12 PLANTS IN CALIFORNIA, 7 PLANTS IN OREGON, 6 PLANTS IN WASHINGTON, 4 PLANTS IN PUERTO RICO, 2 PLANTS EACH IN MARYLAND AND AMERICAN SAMOA, AND 1 PLANT EACH IN MAINE AND HAWAII. DATA ON THE PACK OF TUNA SPECIALTIES CAN BE FOUND IN THE TABLE "PACK OF MISCELLANEOUS FISHERY PRODUCTS". THE PACK OF TUNA FOR ANIMAL FOOD IS NOT INCLUDED IN THE ABOVE TABLE.

## PACK OF TUNA, BY CAN SIZES, 1964

CAN AND CASE SIZE	ACTUAL CASES	VALUE
4 POUND . . . . .	(12 CANS) . . . . .	333,173
1 POUND . . . . .	(48 CANS) . . . . .	540,993
1/2 POUND . . . . .	(48 CANS) . . . . .	13,840,056
1/4 POUND . . . . .	(48 CANS) . . . . .	1,066,967
4 OUNCES . . . . .	(100 CANS) . . . . .	77,924
9-1/4 OUNCES . . . . .	(24 CANS) . . . . .	2,057,101
OTHER SIZES (CONVERTED TO STANDARD CASES) . . . . .		6,726
TOTAL . . . . .		17,932,940
		217,584,565

## PACK OF TUNA, BY AREAS AND STATES, 1964

(STANDARD CASES)

AREA AND STATE	CASES	VALUE	AREA AND STATE	CASES	VALUE
ATLANTIC COAST, MAINE AND MARYLAND . . . . .	695,340	\$7,170,091			
PACIFIC COAST:			OTHER:		
WASHINGTON . . . . .	523,014	\$1,125,179	HAWAII AND AMERICAN SAMOA . . . . .	1,351,855	\$17,476,170
OREGON . . . . .	980,269	14,294,405	PUERTO RICO . . . . .	4,844,896	61,163,579
CALIFORNIA . . . . .	9,292,629	112,355,141	TOTAL . . . . .	6,196,751	78,639,749
TOTAL . . . . .	10,795,912	131,774,725	GRAND TOTAL . . . . .	17,689,003	217,584,565

## PACK OF TUNALIKE FISH, 1964

SPECIES	STANDARD CASES	VALUE
BONITO, SOLID PACK, CHUNKS AND FLAKES OR GRATED . . . . .	24,674	\$177,062

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, 6-1/2 OUNCES NET WEIGHT OF CHUNKS, AND 6 OUNCES NET WEIGHT OF FLAKES OR GRATED. TUNALIKE FISHES WERE CANNED IN 5 PLANTS IN CALIFORNIA.

# GENERAL REVIEW

## PACK OF ALEWIVES, 1964

STATE AND NUMBER OF PLANTS	STANDARD CASES	VALUE
MARYLAND (1), AND NORTH CAROLINA (2). . . . . VIRGINIA (5) . . . . .	9,547 65,034	\$44,235 256,167
TOTAL (8) . . . . .	74,581	300,402

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

## PACK OF MACKEREL, 1964

ITEM	STANDARD CASES	VALUE
JACK MACKEREL: NATURAL 1/2 . . . . . IN TOMATO SAUCE 2/ . . . . .	735,774 84,780	\$4,500,868 723,988
TOTAL . . . . .	820,554	5,224,856
PACIFIC MACKEREL, NATURAL . . . . .	250,269	1,535,184
GRAND TOTAL . . . . .	1,070,823	6,760,040

1/ INCLUDES A SMALL PRODUCTION PACKED IN CHILI SAUCE.

2/ INCLUDES A SMALL PRODUCTION PACKED IN HOT SAUCE.

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 9 PLANTS IN CALIFORNIA. A SMALL PACK OF ATLANTIC MACKEREL IS INCLUDED IN THE TABLE "PACK OF MISCELLANEOUS FISHERY PRODUCTS".

## PACK OF SHAD, 1964

STATE AND NUMBER OF PLANTS	STANDARD CASES	VALUE
OREGON (4), AND WASHINGTON (1) . . . . .	1,235	\$10,886

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, 1964

STATE AND NUMBER OF PLANTS	STANDARD CASES	VALUE	CAN CONTENTS AND CAN SIZE	ACTUAL CASES	VALUE
MAINE (2), MASSACHUSETTS (2) . . . . . NEW JERSEY (1), PENNSYLVANIA (3) . . . . . MARYLAND (2), VIRGINIA (2), AND NORTH CAROLINA (1) . . . . . MISSISSIPPI (4) . . . . . ILLINOIS (2), WISCONSIN (2) . . . . . OHIO (1), KANSAS (1), AND NEBRASKA (1) . . . . . WASHINGTON (4) . . . . . OREGON (6) . . . . . CALIFORNIA (15) . . . . . HAWAII (1), AMERICAN SAMOA (2) . . . . . PUERTO RICO (4) . . . . .	1,485,164 80,478 120,949 2,363,939 207,698 70,261 89,987 384,721 1,903,647 102,502 512,124	\$8,003,003 287,030 875,980 8,478,585 1,071,624 245,886 595,354 2,380,772 15,379,334 1,090,855 5,062,276	6 OUNCES NET (48 CANS) . . . . . 6-1/2 OUNCES NET (48 CANS) . . . . . 8 OUNCES NET (48 CANS) . . . . . 15 OUNCES NET (48 CANS) . . . . . 15-1/2 OUNCES NET (48 CANS) . . . . . 16 OUNCES NET (48 CANS) . . . . . OTHER SIZES CONVERTED TO STANDARD CASES (16 OUNCES NET-48 CANS) . . . . .	195,900 54,980 4,996,929 2,338,713 1,648,084 736,405  221,878	\$591,491 211,002 20,259,000 9,749,497 6,361,437 4,636,284  1,661,969
TOTAL (56) . . . . .	7,341,670	43,470,700	TOTAL . . . . .	10,192,889	43,470,700

NOTE:--EACH STANDARD CASE CONTAINS 10 OR MORE POUNDS OF FISH. AN ADDITIONAL PACK (4,001,215 STANDARD CASES VALUED AT \$17,335,586) HAD LESS THAN 10 POUNDS OF FISH PER STANDARD CASE AND IS NOT INCLUDED IN THE ABOVE PACK OF 7,341,670 STANDARD CASES. "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, 1964

PRODUCT AND NUMBER OF PLANTS	STANDARD CASES	VALUE	STATES OF PRODUCTION AND NUMBER OF PLANTS
ALEWIFE ROE (14) . . . . .	44,988	\$577,950	
SHAD ROE (5) . . . . .	670	38,592	MARYLAND (1), VIRGINIA (9), AND NORTH CAROLINA (4)
SALMON CAVIAR (4) . . . . .	5,952	549,329	CALIFORNIA (1) AND OREGON (4)
GROUNDFISH ROE (1), WHITEFISH CAVIAR (4), STURGEON CAVIAR (2), AND LUMPFISH CAVIAR (2) . . . . .	14,780	1,598,434	NEW YORK (4)
TOTAL EDIBLE ROE AND CAVIAR (25) 1/ . . . . .	66,390	2,764,305	MASSACHUSETTS (1), NEW YORK (4), AND WISCONSIN (1)
SALMON EGGS FOR BAIT (9) . . . . .	21,906	2,162,995	WASHINGTON (9)
GRAND TOTAL (34) 1/ . . . . .	88,296	4,927,300	

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, 1964

STATE AND NUMBER OF PLANTS	STANDARD CASES	VALUE
MASSACHUSETTS (1) AND NEW YORK (4) . . . . .	19,763	\$2,082,252
MARYLAND (1) AND VIRGINIA (9) . . . . .	36,438	474,250
NORTH CAROLINA (4) . . . . .	8,550	103,700
WASHINGTON (9) . . . . .	21,906	2,162,995
OREGON (4), CALIFORNIA (1), AND WISCONSIN (1) . . . . .	1,639	104,103
TOTAL (34) . . . . .	88,296	4,927,300

## PACK OF CRAB MEAT, 1964

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), MISSISSIPPI (3), AND LOUISIANA (1) . . . . .	BLUE 1/	49,848	\$1,143,420	5 OUNCES NET (24 CANS) . . . . .	38,071	\$511,620
TOTAL (8) . . . . .		49,848	1,143,420	6-1/2 OUNCES NET (48 CANS) . . . . .	56,511	1,401,705
PACIFIC STATES: WASHINGTON (5) AND OREGON (1) . . . . .	Dungeness Dungeness King	35,477 15,498 235,970	1,000,104 551,680 5,941,260	7-1/2 OUNCES NET (24 CANS) . . . . .	340,834	5,055,771
ALASKA (6) . . . . .		286,945	7,493,044	15 OUNCES NET (24 CANS) . . . . .	54,905	1,539,830
ALASKA (10) . . . . .		336,793	8,636,464	OTHER SIZES CONVERTED TO STANDARD CASES . . . . .	5,664	107,938
TOTAL, EXCLUSIVE OF DUPLICATION (22) . . . . .				TOTAL . . . . .	495,985	8,636,464
GRAND TOTAL (30) . . . . .						

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, 1964

(STANDARD CASES)

SPECIES	WHOLE AND MINCED		CHOWDER AND JUICE		TOTAL	
	CASES	VALUE	CASES	VALUE	CASES	VALUE
CLAMS: HARD, SOFT AND SURF . . . . .	577,418 1,151	\$6,662,543 31,171	1,722,318	\$11,262,788	2,299,736 1,151	\$17,925,331 31,171
TOTAL . . . . .	578,569	6,693,714	1,722,318	11,262,788	2,300,887	17,956,502

NOTE:--CLAMS WERE CANNED IN 9 PLANTS IN WASHINGTON, 8 PLANTS IN NEW JERSEY, 6 PLANTS IN ALASKA, 5 PLANTS IN MAINE, 4 PLANTS IN NEW YORK, 2 PLANTS EACH IN MASSACHUSETTS, PENNSYLVANIA, AND OREGON, AND 1 PLANT EACH IN RHODE ISLAND, CONNECTICUT, DELAWARE, AND MARYLAND. "STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS. 1 PICNIC CAN, 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, 1964

PRODUCT AND NUMBER OF PLANTS	STANDARD CASES	POUNDS	VALUE
CLAMS: WHOLE (8), . . . . .	15,426	231,390	\$231,165
MINCED (23), . . . . .	563,143	8,447,145	6,462,549
CHOWDER (18), . . . . .	1,600,867	46,026,010	10,676,125
JUICE (INCLUDES BOUILLON, BROTH, AND NECTAR) (12), . . . . .	121,451	3,643,530	586,663
TOTAL 1/ (42), . . . . .	2,300,887	60,348,075	17,956,502

1/ EXCLUSIVE OF DUPLICATION.

## PACK OF OYSTERS, 1964

STATE AND NUMBER OF PLANTS	STANDARD CASES	VALUE	CAN CONTENTS AND CASE SIZE	ACTUAL CASES	VALUE
ATLANTIC AND GULF STATES: SOUTH CAROLINA (2), . . . . .	53,574	\$614,417	ATLANTIC AND GULF STATES: 4-2/3 OUNCES (24 CANS), . . . . .	641,916	\$3,906,039
ALABAMA (1), . . . . .	197,789	2,344,790	6-1/2 OUNCES (24 CANS), . . . . .	43,138	362,176
LOUISIANA (5), . . . . .	106,544	1,424,196			
MISSISSIPPI (10), . . . . .	359,907	4,383,403	PACIFIC STATES: 4-2/3 OUNCES (24 CANS), . . . . .	31,873	266,269
TOTAL (22), . . . . .			6-1/2 OUNCES (24 CANS), . . . . .	66,652	642,008
PACIFIC STATES: WASHINGTON (5), OREGON (1), . . .	62,354	908,277	OTHER SIZES CONVERTED TO STANDARD CASES, . . . . .	8,907	115,189
GRAND TOTAL (28), . . . . .	422,261	5,291,680	GRAND TOTAL, . . . . .	792,486	5,291,680

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 OF OYSTER MEATS.



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## PACK OF SHRIMP, 1964

STATE AND NUMBER OF PLANTS	STANDARD CASES	VALUE	CAN CONTENTS AND CASE SIZE	ACTUAL CASES	VALUE
GULF STATES:					
MISSISSIPPI (5) . . . . .	81,953	\$1,747,108	4-1/2 OUNCES (24 CANS) . . . . .	1,157,105	\$10,478,103
LOUISIANA (14) . . . . .	505,903	10,181,526	5 OUNCES (24 CANS) . . . . .	195,915	1,891,715
ALABAMA (1), TEXAS (2)	14,354	266,792			
TOTAL (26) . . . . .	602,210	12,195,526		30,676	616,032
PACIFIC STATES:					
WASHINGTON (2),					
OREGON (1) . . . . .	6,618	105,874			
ALASKA (4) . . . . .	40,504	684,450			
TOTAL (7) . . . . .	47,122	790,324			
GRAND TOTAL (33) . . . . .	649,332	12,985,850	TOTAL . . . . .	1,383,696	12,985,850

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

## PACK OF MISCELLANEOUS FISHERY PRODUCTS, 1964

PRODUCT	STANDARD CASES	VALUE	LOCATION AND NUMBER OF PLANTS
FISH:			
ANCHOVY PASTE . . . . .	1,068	\$73,235	
CAKES (PRINCIPALLY GROUND FISH) . . . . .	60,372	845,087	
GETILTEFISH . . . . .	311,954	5,095,732	
HERRING SPECIALTIES (TIDBITS, SNACKS, AND SPREADS) . . . . .	8,100	100,741	
SALMON:			
SMOKED . . . . .	1,840	147,120	
SPECIALTIES (SPREADS AND SALTED LIVERS) . . . . .	196	9,994	
STURGEON, SMOKED AND SPREADS . . . . .	1,040	61,655	
TUNA SPECIALTIES . . . . .			
SMOKED, CREAMED, AND SPREADS . . . . .			
WITH NOODLES . . . . .			
OTHER (HALIBUT, ATLANTIC MACKEREL, MULLET, WAHOO, WHITEFISH, SALTED CODFISH, AND FISH APPETIZERS) . . . . .	8,213	98,796	
BITES, CHOWDERS, IN CREAMS, FLAKES, SPREADS, AND SAUCES) AND OTHER SPECIALTIES . . . . .	46,341	686,894	
TOTAL FISH . . . . .	89,599	1,198,228	
530,723	8,519,482		
SHELLFISH:			
CRAB SPECIALTIES (BISQUE, COCK-TAILS, DEVILED, DIPS, SMOKED, SOUPS, AND SPREADS) . . . . .	16,459	255,537	
LOBSTER SPECIALTIES (MEAT, DEVILED, DIPS, NEWBURG, SAUCES, SOUPS, SPREADS, AND STEWS) . . . . .	15,197	301,562	
SHRIMP SPECIALTIES (COCKTAILS, DIPS, PICKLED SAUCE, SOUPS, SPREADS, AND STEWS) . . . . .	12,235	245,637	
CLAM SPECIALTIES (CAKES, DIPS, FRIED CLAMS, CRISPS, A LA KING, SPREADS, IN THE SHELL, SMOKED, SOUPS, STEWS, AND SAUCES) . . . . .	65,350	1,189,605	
CONCH MEAT . . . . .	5,597	162,795	
OYSTER SPECIALTIES . . . . .			
SMOKED . . . . .	307	27,949	
STEW . . . . .	113,169	2,090,954	
BISQUE, SOUPS, CASSEROLES AND SPREADS . . . . .	2,650	48,211	
SQUID . . . . .	214,649	887,484	
TURTLE MEAT, SOUPS AND STEWS . . . . .	17,043	271,155	
OTHER SPECIALTIES (CONCH CHOWDER, CRAWFISH BISQUE, GUMBO, MUSSELS WHOLE AND IN BISQUE, AND UNCLASSIFIED SHELLFISH IN SOUPS, CHOWDERS, ETC.) . . . . .	13,327	162,405	
TOTAL SHELLFISH . . . . .	475,983	5,664,294	
GRAND TOTAL . . . . .	1,006,706	14,183,776	

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, 1964

The production of industrial fishery products by 160 plants in the United States, American Samoa, and Puerto Rico was valued at \$69.9 million--an increase of more than \$1.3 million compared with 1963.

Marine animal scrap and meal--The production of 235,252 tons was 8 percent less than the 255,907 tons manufactured in 1963 and the smallest production since 1952. Menhaden scrap and meal (160,349 tons) was nearly 24,000 tons below the 1963 production. In 1964, menhaden landings declined along the Atlantic Coast and in the Gulf of Mexico, excepting only the Chesapeake Area and the West Coast of Florida. However, imports of meal (439,143 tons) were received in record volume and the supply, 674,395 tons (domestic production plus imports) was the largest in history.

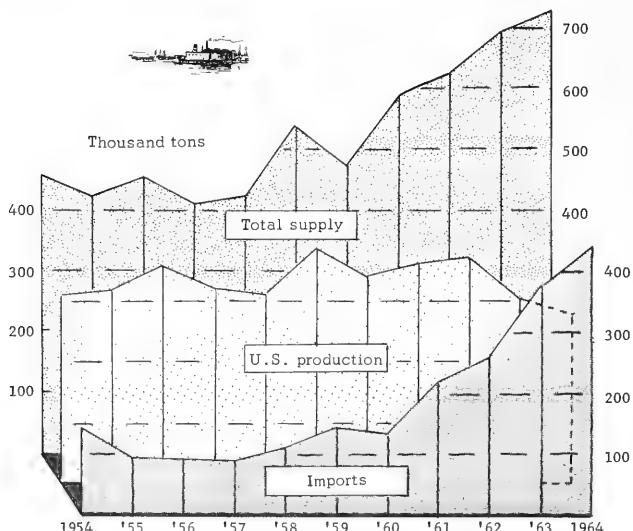
Marine animal oil--Domestic production of marine animal oil (180.2 million pounds) was 3 percent less than the 185.8 million manufactured in 1963. Despite the decline in menhaden landings, the production of menhaden oil (157.7 million pounds) accounted for 88 percent of the total fish oil produced in 1964. Nearly 151.4 million pounds of fish oil were exported in 1964.

Fish solubles--There were 93,296 tons of solubles produced in 1964--7 percent less than in the previous year. There was no production of homogenized condensed fish in 1964.

Other industrial products--Products from oyster shells and buttons from fresh-water and marine mollusk shells were valued at \$6.2 million in 1964. Compared with the previous year, this was a decrease of more than \$808,000.

Other industrial items produced included agar-agar, fish feed pellets and animal feeds, Irish moss extract, kelp products, fish leather, liquid fertilizer, shell lime and chips, pearl essence, and crab shells valued at \$16.7 million. In the previous year, other industrial products were valued at \$13.8 million.

### U. S. SUPPLY OF FISH MEAL AND SOLUBLES, 1954-64



# GENERAL REVIEW

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## SUMMARY OF PRODUCTION, BY COMMODITIES, 1964

PRODUCTS	NUMBER OF PLANTS	UNIT	QUANTITY	VALUE
MARINE ANIMAL SCRAP AND MEAL . . . . .	109	TONS	235,252	\$28,038,658
MARINE ANIMAL OILS:				
BODY OIL . . . . .	74	THOUSAND POUNDS	180,175	13,272,991
LIVER OIL . . . . .	2	DO	23	24,000
FISH SOLUBLES . . . . .	36	TONS	93,296	5,652,194
MARINE PEARL SHELL BUTTONS . . . . .	6	GROSS	406,917	1,004,344
MUSSEL SHELL BUTTONS . . . . .	7	DO	226,625	272,281
OYSTER SHELL GRIT AND LIME ("LIVE AND REEF SHELLS") . . . . .	14	TONS	362,543	4,914,924
MISCELLANEOUS INDUSTRIAL PRODUCTS . . . . .	22	-	-	16,721,404
TOTAL . . . . .	1/ 160	-	-	69,910,996

<sup>1/</sup> EXCLUSIVE OF DUPLICATION.

NOTE:--LIST OF MANUFACTURERS OF FISHERY INDUSTRIAL PRODUCTS BY INDIVIDUAL COMMODITIES MAY BE OBTAINED FROM THE OFFICE OF INFORMATION, U.S. FISH AND WILDLIFE SERVICE, WASHINGTON, D.C. 20240.

## SUMMARY OF PRODUCTION, BY STATES, 1964

AREA AND STATE	VALUE
MAINE . . . . .	\$6,038,127
MASSACHUSETTS AND CONNECTICUT . . . . .	1,466,691
NEW YORK . . . . .	2,926,690
NEW JERSEY . . . . .	2,524,163
PENNSYLVANIA AND DELAWARE . . . . .	767,549
MARYLAND . . . . .	1,491,325
VIRGINIA . . . . .	7,910,302
NORTH CAROLINA . . . . .	3,943,604
GEORGIA, FLORIDA, AND ALABAMA . . . . .	2,332,369
MISSISSIPPI . . . . .	5,281,701
LOUISIANA . . . . .	15,084,158
TEXAS . . . . .	2,605,554
ILLINOIS, IOWA, AND WISCONSIN . . . . .	322,074
ALASKA . . . . .	1,048,020
WASHINGTON . . . . .	630,954
OREGON . . . . .	712,662
CALIFORNIA . . . . .	14,465,519
AMERICAN SAMOA AND PUERTO RICO . . . . .	727,358
TOTAL . . . . .	69,910,996

## PLANTS PRODUCING INDUSTRIAL FISHERY PRODUCTS, 1964

AREA AND STATE	NUMBER	AREA AND STATE	NUMBER
NEW ENGLAND:			
MAINE . . . . .	16	SOUTH ATLANTIC AND GULF:	
MASSACHUSETTS . . . . .	5	NORTH CAROLINA . . . . .	15
CONNECTICUT . . . . .	1	GEORGIA . . . . .	1
TOTAL . . . . .	22	FLORIDA . . . . .	8
MIDDLE ATLANTIC:		ALABAMA . . . . .	1
NEW YORK . . . . .	4	MISSISSIPPI . . . . .	4
NEW JERSEY . . . . .	12	LOUISIANA . . . . .	9
PENNSYLVANIA . . . . .	2	TEXAS . . . . .	3
DELAWARE . . . . .	2	TOTAL . . . . .	41
TOTAL . . . . .	20	GREAT LAKES, WISCONSIN . . . . .	2
CHESAPEAKE:		MISSISSIPPI RIVER:	
MARYLAND . . . . .	8	ILLINOIS . . . . .	1
VIRGINIA . . . . .	14	IOWA . . . . .	8
TOTAL . . . . .	22	TOTAL . . . . .	9
PACIFIC COAST:		PACIFIC COAST:	
ALASKA . . . . .		ALASKA . . . . .	2
WASHINGTON . . . . .		WASHINGTON . . . . .	9
OREGON . . . . .		OREGON . . . . .	5
CALIFORNIA . . . . .		CALIFORNIA . . . . .	23
TOTAL . . . . .		TOTAL . . . . .	39
AMERICAN SAMOA . . . . .		AMERICAN SAMOA . . . . .	2
PUERTO RICO . . . . .		PUERTO RICO . . . . .	3
GRAND TOTAL . . . . .		GRAND TOTAL . . . . .	160

# GENERAL REVIEW

## NUMBER OF PLANTS PRODUCING INDUSTRIAL FISHERY PRODUCTS, 1964

PRODUCTS	ATLANTIC AND GULF COAST 1/	PACIFIC COAST 2/	TOTAL
	NUMBER	NUMBER	NUMBER
SCRAP AND MEAL, DRIED:			
ALEWIFE . . . . .	5	-	5
CABRILLA . . . . .	15	2	17
OCEAN PERCH . . . . .	1	-	1
HERRING, SEA . . . . .	8	3	11
MENHADEN . . . . .	31	-	31
SARDINE, PACIFIC . . . . .	-	3	3
SHRIMP . . . . .	3	-	3
TUNA AND MACKEREL . . . . .	-	17	17
WHALE . . . . .	-	3	3
UNCLASSIFIED . . . . .	20	11	31
OILS:			
BODY:			
ALEWIFE . . . . .	6	-	6
OCEAN PERCH . . . . .	1	-	1
HERRING, SEA . . . . .	6	3	9
MENHADEN . . . . .	31	-	31
SALMON <sub>2</sub> :			
EDIBLE . . . . .	-	3	3
INDUSTRIAL . . . . .	-	1	1
SARDINE, PACIFIC . . . . .	-	5	5
TUNA AND MACKEREL . . . . .	-	12	12
WHALE:			
SPERM . . . . .	1	3	3
OTHER . . . . .	1	2	2
UNCLASSIFIED . . . . .	9	5	14
LIVER OILS:			
MUSSEL SHELL PRODUCTS (FRESH-WATER):			
BUTTONS . . . . .	7	-	7
LIME AND COLORED CHIPS . . . . .	3	-	3
OYSTER SHELL PRODUCTS:			
CRUSHED SHELL FOR POULTRY FEED . . .	9	5	14
SHELL LIME:			
BURNED . . . . .	9	-	9
UNBURNED . . . . .	6	4	10
MARINE PEARL SHELL BUTTONS . . . . .	6	-	6
AGAR-AGAR . . . . .	-	1	1
FISH SOLUBLES . . . . .	28	10	38
IRISH MOSS EXTRACTS AND STABILIZER . . .	2	1	2
KELP PRODUCTS . . . . .	1	3	4
LIQUID AND DRY FERTILIZER . . . . .	1	3	3
PEARL ESSENCE AND NOVELTIES . . . . .	-	7	7
CRAB SHELLS (FOR DEVILED CRAB MEAT) . . .	3	-	3
ANIMAL FEEDS . . . . .	-	1	1
FISH FEED PELLETS . . . . .	-	3	3
LEATHER PRODUCTS . . . . .	1	-	1
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	117	43	160

1/ INCLUDES FIRMS IN THE MISSISSIPPI RIVER AND GREAT LAKES AREA.

2/ INCLUDES AMERICAN SAMOA AND PUERTO RICO.



# GENERAL REVIEW

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## PRODUCTION OF MARINE ANIMAL SCRAP AND MEAL, 1964

PRODUCT	ATLANTIC AND GULF COASTS		PACIFIC COASTS AND TERRITORIES		TOTAL	
	TONS	VALUE	TONS	VALUE	TONS	VALUE
DRIED SCRAP AND MEAL:						
ALEWIFE . . . . .	1,651	\$205,569	(1)	(1)	1,651	\$205,569
CRAB . . . . .	1/9,723	1/439,440	3,636	\$497,400	9,723	439,440
HERRING . . . . .	5,245	605,122	-	-	8,881	1,102,522
MENHADEN . . . . .	160,349	20,001,220	-	-	160,349	20,001,220
SHRIMP . . . . .	377	15,430	-	-	377	15,430
TUNA AND MACKEREL . . . . .	-	-	21,113	2,229,443	21,113	2,229,443
WHALE . . . . .	-	-	1,664	1,55,359	1,664	155,359
UNCLASSIFIED . . . . .	2/24,002	2/3,089,375	3/7,492	3/800,500	31,494	3,889,875
TOTAL . . . . .	201,347	24,356,156	33,905	3,682,702	235,252	28,038,898

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

2/ INCLUDES OCEAN PERCH MEAL AND SCRAP.

3/ INCLUDES PACIFIC SARDINE AND SALMON MEAL AND SCRAP.

## PRODUCTION OF MARINE ANIMAL OIL, 1964

PRODUCT	ATLANTIC AND GULF COASTS		PACIFIC COAST AND PUERTO RICO		TOTAL	
	THOUSAND POUNDS	VALUE	THOUSAND POUNDS	VALUE	THOUSAND POUNDS	VALUE
BODY OIL:						
ALEWIFE . . . . .	1/805	1/57,730	-	-	805	\$57,730
HERRING . . . . .	2,461	203,555	7,893	\$581,600	10,354	785,155
MENHADEN . . . . .	157,730	11,734,935	-	-	157,730	11,734,935
SALMON . . . . .	-	-	491	43,115	491	43,115
TUNA AND MACKEREL . . . . .	-	-	4,816	272,178	4,816	272,178
WHALE . . . . .	-	-	-	-	-	-
SPERM . . . . .	-	-	401	25,684	401	25,684
OTHER . . . . .	-	-	2,759	169,926	2,759	169,926
UNCLASSIFIED . . . . .	2/1,816	2/131,893	3/1,003	3/52,375	2,819	184,268
TOTAL . . . . .	162,812	12,128,113	17,363	1,144,678	180,175	13,273,991
LIVER OIL (TUNA, SHARK, MIXED) . . . . .	(4)	(4)	23	24,000	23	24,000
GRAND TOTAL . . . . .	162,812	12,128,113	17,363	1,168,678	180,198	13,296,991

1/ INCLUDES PRODUCTION FROM THE GREAT LAKES.

2/ INCLUDES OCEAN PERCH OIL.

3/ INCLUDES ANCHOVY AND SARDINE OIL.

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

NOTE:--TO CONVERT POUNDS OF OIL TO GALLONS, DIVIDE BY 7.75.

## PRODUCTION OF FISH SOLUBLES, 1964

PRODUCT, STATE, AND NUMBER OF PLANTS	TONS	VALUE
FISH SOLUBLES:		
MASSACHUSETTS (2), NEW YORK (1), NEW JERSEY (3) . . . . .	10,318	\$595,766
VIRGINIA (5), WISCONSIN (1) . . . . .	22,097	1,310,575
NORTH CAROLINA (4), EAST COAST OF FLORIDA (1) . . . . .	7,908	431,200
MISSISSIPPI (3), TEXAS (1) . . . . .	15,728	619,790
LOUISIANA (7) . . . . .	22,270	1,334,413
OREGON (1), CALIFORNIA (7) . . . . .	16,965	1,170,380
TOTAL (36) . . . . .	93,296	5,662,194

NOTE:--INCLUDES MENHADEN SOLUBLES. NO HOMOGENIZED CONDENSED FISH PRODUCTION IN 1964.

# GENERAL REVIEW

## PRODUCTION OF MENHADEN PRODUCTS, 1964

STATE AND NUMBER OF PLANTS	DRY SCRAP AND MEAL		OIL		SOLUBLES		TOTAL
	TONS	VALUE	POUNDS	VALUE	TONS	VALUE	
NEW YORK {1}, NEW JERSEY {3}, DELAWARE {2} . . . . .	13,133	\$1,589,257	16,095,990	\$1,075,433	3,656	\$210,856	\$2,875,546
VIRGINIA {5} . . . . .	32,804	4,201,269	23,944,400	1,737,616	21,176	1,258,672	7,197,557
NORTH CAROLINA {8}, FLORIDA {1} . . . . .	19,671	2,600,133	11,982,926	1,003,525	7,908	431,250	4,034,908
MISSISSIPPI {3} . . . . .	24,231	2,956,182	22,183,926	1,574,343	11,777	706,632	5,237,157
LOUISIANA {7}, TEXAS {1} . . . . .	70,510	8,654,379	83,522,292	6,344,018	24,221	1,447,571	16,445,968
TOTAL {31} . . . . .	160,349	20,001,220	157,729,534	11,734,935	68,730	4,054,981	35,791,136

NOTE:--INCLUDES A SMALL QUANTITY OF OTHER SPECIES.

## PRODUCTION OF OYSTER SHELL PRODUCTS, 1964

("LIVE AND REEF SHELLS")

STATE AND NUMBER OF PLANTS	POULTRY GRIT		LIME, BURNED AND UNBURNED		TOTAL	
	TONS	VALUE	TONS	VALUE	TONS	VALUE
NEW JERSEY {1}, PENNSYLVANIA {1}, MARYLAND {2}, VIRGINIA {3} . . .	63,593	\$1,154,279	33,202	\$283,606	96,795	\$1,437,885
FLORIDA {1}, ALABAMA {1}, TEXAS {2} . . . . .	223,938	3,146,289	32,887	223,202	256,625	3,369,491
WASHINGTON {3}, OREGON {1}, CALIFORNIA {1} . . . . .	7,359	92,677	1,564	14,871	8,923	107,548
TOTAL {16} . . . . .	294,890	4,393,245	67,653	521,679	362,543	4,914,924

## PRODUCTION OF FRESH-WATER MUSSEL SHELL BUTTONS, 1964

STATE AND NUMBER OF PLANTS	BUTTONS	
	GROSS	VALUE
IOWA {6}, PENNSYLVANIA {1} . . . . .	226,625	\$272,281

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, 1964

STATE AND NUMBER OF PLANTS	BUTTONS	
	GROSS	VALUE
CONNECTICUT {1}, NEW YORK {1}, PENNSYLVANIA {1} . . . . .	111,300	\$245,743
NEW JERSEY {3} . . . . .	295,617	758,601
TOTAL {6} . . . . .	406,917	1,004,344

## PRODUCTION OF MISCELLANEOUS INDUSTRIAL FISHERY PRODUCTS, 1964

PRODUCT	STATE AND NUMBER OF PLANTS	VALUE
AGAR-AGAR . . . . .	CALIFORNIA {1} . . . . .	
ANIMAL FEEDS AND FISH FEED PELLETS . . . . .	WASHINGTON {2}, OREGON {1} . . . . .	
FISH FERTILIZER . . . . .	OREGON {1} . . . . .	
IRISH MOSS EXTRACT AND STABILIZER . . . . .	MAINE {2} . . . . .	
KELP PRODUCTS . . . . .	MAINE {1}, CALIFORNIA {3} . . . . .	
LEATHER PRODUCTS . . . . .	NEW JERSEY {1} . . . . .	
LIQUEFIED FERTILIZER . . . . .	CALIFORNIA {2} . . . . .	
MUSSEL SHELL LIME AND COLORED CHIPS . . . . .	IOWA {2}, ILLINOIS {1} . . . . .	
PEARL ESSENCE AND NOVELTIES . . . . .	MAINE {6}, MASSACHUSETTS {1} . . . . .	
CRAB SHELLS (FOR DEVILED CRAB MEAT) . . . . .	FLORIDA {3} . . . . .	
		\$16,721,404

## PACKAGED FISHERY PRODUCTS, 1964

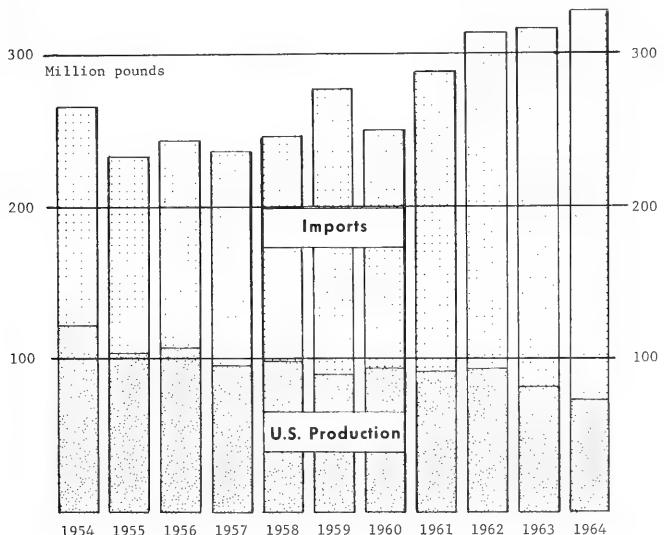
The production of fresh and frozen packaged fillets and steaks in the United States, excluding Alaska and Hawaii, was 161.1 million pounds valued at \$57.4 million--a decline of 4.9 million pounds and \$97,000 compared with 1963.

Flounder fillets (48.6 million pounds), haddock fillets (37.3 million), and Atlantic ocean perch fillets (23.8 million pounds) continued to be the leading items. They accounted for 68 percent of the volume and 65 percent of the value. Cod fillets and halibut steaks were among other important leading items. The New England area continued to lead all other areas in the production of packaged fish with 66 percent of the total volume and 59 percent of the value.

Data on the production of packaged fish during 1964 have been published previously in Current Fishery Statistics No. 3776.



## SUPPLY OF GROUNDFISH FILLETS, 1954-64



# GENERAL REVIEW

## SUMMARY OF PRODUCTION OF PACKAGED FISH, 1964

ITEM	FILLETS		STEAKS		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FRESH . . . . .	78,421,336	\$29,491,506	155,176	\$65,113	78,576,512	\$29,556,619
FROZEN . . . . .	71,250,701	22,209,074	11,294,129	5,597,969	82,544,830	27,807,043
TOTAL . . . . .	149,672,037	51,700,580	11,449,305	5,663,082	161,121,342	57,363,662

## PRODUCTION OF FRESH AND FROZEN PACKAGED FISH, BY SECTIONS, 1964

SPECIES	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE, SOUTH ATLANTIC, AND GULF	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH . . . . .	5,617,493	\$1,804,185	2,472,452	\$1,124,724	68,000	\$35,520
COD . . . . .	325,784	98,135	-	-	-	-
CUSHK . . . . .	32,695,650	10,466,641	4,918,980	2,743,073	436,500	212,900
FLOUNDERS . . . . .	-	-	-	-	1,271,707	529,983
GROUPERS . . . . .	-	-	-	-	-	-
HADDOCK . . . . .	36,285,015	13,201,592	1,045,593	508,027	-	-
HAKE . . . . .	231,371	66,664	50,500	17,170	-	-
HALIBUT . . . . .	641,110	285,243	-	-	-	-
KING MACKEREL . . . . .	-	-	-	-	92,000	34,670
MACKEREL . . . . .	24,475	7,111	-	-	-	-
OCEAN PERCH . . . . .	23,614,523	6,324,175	-	-	-	-
POLLOCK . . . . .	3,297,189	716,857	-	-	-	-
SALMON . . . . .	57,490	43,330	-	-	-	-
SEA TROUT . . . . .	-	-	-	-	101,501	46,620
SNAPPER, RED . . . . .	-	-	-	-	494,663	340,329
SPANISH MACKEREL . . . . .	-	-	-	-	966,820	329,271
SWORDFISH . . . . .	252,280	114,236	-	-	-	-
WHITING . . . . .	2,094,359	459,542	-	-	-	-
WOLFGHISH . . . . .	102,345	31,623	-	-	-	-
UNCLASSIFIED . . . . .	23,836	35,754	44,000	14,460	470,887	270,047
TOTAL . . . . .	105,662,920	33,677,089	8,531,525	4,407,454	3,902,078	1,799,340

SPECIES	GREAT LAKES AND MISSISSIPPI RIVER		PACIFIC COAST	
	POUNDS	VALUE	POUNDS	VALUE
CARP . . . . .	1,590,000	\$329,450	-	-
COD . . . . .	-	-	1,825,986	\$422,106
FLOUNDER . . . . .	-	-	10,502,513	4,014,689
HALIBUT . . . . .	-	-	8,676,829	4,117,406
HERRING, LAKE . . . . .	33,750	9,008	-	-
LAKE TROUT . . . . .	76,835	48,752	-	-
LINGCOD . . . . .	-	-	1,450,813	350,884
OCEAN PERCH . . . . .	-	-	5,533,465	1,283,117
PIKE OR PICKEREL . . . . .	50,300	24,126	-	-
ROCKFISHES . . . . .	-	-	4,170,341	918,046
SALMON . . . . .	-	-	1,922,260	1,301,406
SAUGER . . . . .	852,400	601,610	-	-
SEA BASS . . . . .	-	-	175,219	81,731
SNAPPER, RED . . . . .	76,900	87,240	-	-
SWORDFISH . . . . .	-	-	911,446	491,655
WHITE BASS . . . . .	178,078	59,696	-	-
WHITEFISH . . . . .	377,512	251,009	-	-
YELLOW PERCH . . . . .	3,066,650	1,917,425	-	-
YELLOW PIKE . . . . .	1,379,503	1,040,449	-	-
UNCLASSIFIED . . . . .	80,000	52,000	93,719	17,972
TOTAL . . . . .	7,762,228	4,480,767	35,262,591	12,999,012

# GENERAL REVIEW

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## PRODUCTION OF PACKAGED FISH, BY METHOD OF PREPARATION, 1964

SPECIES	FILLETS			
	FRESH		FROZEN	
	POUNDS	VALUE	POUNDS	VALUE
BLEUFISH . . . . .	-	-	66,000	\$35,520
CARP . . . . .	1,590,000	\$329,450	2,898,828	840,501
COD . . . . .	7,217,103	2,510,515	2,69,021	20,699
CUSK . . . . .	256,763	77,436	15,344,146	4,907,528
FLOUNDERS . . . . .	33,209,497	12,549,775	294,612	130,799
GROUPERS . . . . .	193,417	86,828	13,733,036	4,578,181
HADDOCK . . . . .	23,597,572	9,131,438	14,790	2,950
HAKE . . . . .	267,061	80,884	1,316,807	625,322
HALIBUT . . . . .	-	-	-	-
HERRING, LAKE . . . . .	33,750	9,008	23,690	13,622
LAKE TROUT . . . . .	53,145	35,130	527,235	132,563
LINGCOD . . . . .	923,576	216,301	-	-
MACKEREL . . . . .	24,475	7,111	-	-
OCEAN PERCH . . . . .	-	-	-	-
ATLANTIC . . . . .	428,003	121,463	23,386,520	6,202,712
PACIFIC . . . . .	2,191,633	483,975	3,341,832	799,142
PIKE OR PICKEREL . . . . .	50,300	24,126	-	-
POLLOCK . . . . .	1,488,212	353,440	1,808,977	365,417
ROCKFISHES . . . . .	2,707,576	587,095	1,452,765	330,951
SALMON . . . . .	-	-	864,500	581,600
SAUER . . . . .	393,200	287,960	459,200	313,650
SEA BASS . . . . .	-	-	175,219	81,731
SEA TROUT . . . . .	-	-	101,501	45,620
SNAPPER, RED . . . . .	60,128	67,747	374,635	229,142
SPANISH MACKEREL . . . . .	-	-	966,620	329,171
WHITE BASS . . . . .	117,578	61,106	60,500	28,590
WHITEFISH . . . . .	306,652	235,032	70,960	45,976
WHITING . . . . .	2,778	696	2,091,581	458,846
WOLFFISH . . . . .	19,904	5,811	82,441	25,812
YELLOW PERCH . . . . .	2,462,652	1,584,491	604,198	332,937
YELLOW PIKE . . . . .	720,003	568,999	659,500	471,450
UNCLASSIFIED . . . . .	107,336	73,689	449,387	223,522
TOTAL . . . . .	78,421,336	29,491,506	71,250,701	22,209,074

SPECIES	STEAKS, FRESH AND FROZEN		TOTAL	
	POUNDS	VALUE		
			POUNDS	VALUE
BLEUFISH . . . . .	-	-	68,000	\$35,520
CARP . . . . .	-	-	1,590,000	329,450
COD . . . . .	-	-	10,115,931	3,351,016
CUSK . . . . .	-	-	325,784	95,131
FLOUNDERS . . . . .	-	-	48,253,643	17,467,493
GROUPERS . . . . .	784,678	\$312,356	1,271,707	529,993
HADDOCK . . . . .	-	-	37,323,608	13,709,619
HAKE . . . . .	-	-	291,871	83,834
HALIBUT . . . . .	8,001,132	3,777,327	9,317,939	4,402,649
HERRING, LAKE . . . . .	92,000	34,670	33,750	9,008
KING MACKEREL . . . . .	-	-	92,000	34,670
LAKE TROUT . . . . .	-	-	76,835	48,752
LINGCOD . . . . .	-	-	1,450,613	350,884
MACKEREL . . . . .	-	-	24,475	7,111
OCEAN PERCH . . . . .	-	-	-	-
ATLANTIC . . . . .	-	-	23,814,523	6,328,175
PACIFIC . . . . .	-	-	5,535,485	1,283,100
PIKE OR PICKEREL . . . . .	-	-	2,000	2,126
POLLOCK . . . . .	-	-	3,297,189	718,857
ROCKFISHES . . . . .	-	-	4,170,341	916,046
SALMON . . . . .	1,115,250	763,136	1,979,750	1,344,736
SAUER . . . . .	-	-	852,400	601,610
SEA BASS . . . . .	-	-	175,219	81,731
SEA TROUT . . . . .	-	-	101,501	45,620
SNAPPER, RED . . . . .	136,800	76,680	571,563	427,569
SPANISH MACKEREL . . . . .	-	-	966,620	329,271
SWORDFISH . . . . .	1,163,726	605,891	1,163,726	605,891
WHITE BASS . . . . .	-	-	178,076	89,696
WHITEFISH . . . . .	-	-	377,612	281,008
WHITING . . . . .	-	-	2,094,339	459,008
WOLFFISH . . . . .	-	-	102,155	31,623
YELLOW PERCH . . . . .	-	-	3,945,650	1,617,428
YELLOW PIKE . . . . .	-	-	1,379,503	1,040,449
UNCLASSIFIED . . . . .	155,719	93,022	712,442	390,233
TOTAL . . . . .	11,449,305	5,663,082	161,121,342	57,363,662

# GENERAL REVIEW

## PRODUCTION OF FISH STICKS, 1964

MONTH	COOKED	RAW	TOTAL	
			THOUSAND POUNDS	THOUSAND POUNDS
JANUARY . . . . .	6,709	517		7,226
FEBRUARY . . . . .	6,595	467		7,062
MARCH . . . . .	6,417	548		6,965
APRIL . . . . .	5,468	403		5,871
MAY . . . . .	5,251	410		5,661
JUNE . . . . .	3,700	521		4,221
JULY . . . . .	3,398	417		3,815
AUGUST . . . . .	5,675	635		6,310
SEPTEMBER . . . . .	5,944	538		6,482
OCTOBER . . . . .	6,683	346		7,029
NOVEMBER . . . . .	5,749	404		6,153
DECEMBER . . . . .	6,221	558		6,779
TOTAL . . . . .	67,810	5,764		73,574
TOTAL VALUE-YEAR . . . . .	27,997	1,969		29,966

NOTE:--A FISH STICK IS AN ELONGATED PIECE OF FISH FLESH (GENERALLY CUT FROM A BLOCK OF FILLETS) WEIGHING NOT LESS THAN 3/4 OF AN OUNCE AND NOT MORE THAN 1-1/4 OUNCES WITH THE LARGEST DIMENSION AT LEAST THREE TIMES THAT OF THE NEXT LARGEST DIMENSION.

## PRODUCTION OF FISH PORTIONS, 1964

MONTH	BREADED			UNBREADED	TOTAL
	COOKED	RAW	TOTAL		
	THOUSAND POUNDS	THOUSAND POUNDS	THOUSAND POUNDS	THOUSAND POUNDS	THOUSAND POUNDS
JANUARY . . . . .	1,540	7,079	8,619	258	8,877
FEBRUARY . . . . .	1,742	6,335	8,077	420	8,497
MARCH . . . . .	2,111	6,465	8,576	185	8,761
APRIL . . . . .	1,950	5,961	7,911	105	8,016
MAY . . . . .	1,722	5,731	7,453	168	7,621
JUNE . . . . .	1,219	6,284	7,503	169	7,672
JULY . . . . .	774	5,720	6,494	105	6,599
AUGUST . . . . .	1,711	7,432	9,143	255	9,398
SEPTEMBER . . . . .	2,544	7,157	9,701	129	9,830
OCTOBER . . . . .	2,933	8,797	10,830	293	11,123
NOVEMBER . . . . .	1,742	8,979	10,721	201	10,922
DECEMBER . . . . .	1,868	6,876	8,744	253	8,997
TOTAL . . . . .	20,956	82,816	103,772	2,541	106,313
TOTAL VALUE-YEAR . . . . .	6,667	26,955	35,622	910	36,532

NOTE:--A FISH PORTION IS A PIECE OF FISH FLESH GENERALLY OF UNIFORM SIZE AND GENERALLY CUT FROM A BLOCK OF FILLETS. IT HAS A THICKNESS, INCLUDING THE BATTER, OF 3/8 OF AN INCH OR MORE, AND DOES NOT CONFORM TO THE DEFINITION OF A FISH STICK.

## FROZEN FISHERY TRADE, 1964

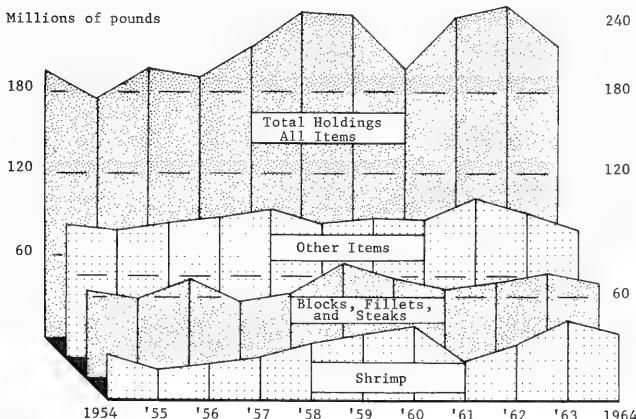
The 1964 production of frozen fish and shellfish by firms reporting monthly to the Bureau of Commercial Fisheries totaled 332.3 million pounds. Leading products frozen were shrimp (106.9 million pounds); bait and animal food (57.2); fillets and steaks consisting chiefly of ocean perch and haddock (48.3); whiting, headed and gutted (27.4); and dressed halibut (24.8 million pounds). An estimated 543.5 million pounds of fish and shellfish (live weight) were required to produce the 332.3 million pounds of frozen fishery items. Not included were freezings by cold storage plants not reporting to the Bureau and a considerable volume of frozen fillets and steaks produced by firms operating plate freezers at the end of fillet production lines. Data assembled in the packaged fish survey for 1964 indicate that about 21.9 million pounds (an estimated 67.6 million pounds, live weight) of fillets and steaks were frozen by these firms.

New England led all other areas in freezings with 125.8 million pounds, or 38 percent of the total, followed by the South Central, with 75.4 million pounds; South Atlantic, 41.3; Alaska, 40.1; and the Pacific area, 39.9 million pounds. The Middle Atlantic, North Central East, and North Central West accounted for the remainder.

Information on the freezings and holdings of fishery products for 1964 by firms supplying monthly data on their operations and a list of these firms were published previously in Current Fishery Statistics No. 3772. Data on freezings and holdings were also published in the preliminary monthly bulletin, Frozen Fish Report, and in the final monthly report, Frozen Fishery Products, which are also in the Current Fishery Statistics series.

## HOLDINGS OF FROZEN FISHERY PRODUCTS, 1954 - 64

(ON DECEMBER 31)



# GENERAL REVIEW

## SUMMARY OF FREEZINGS, BY MONTHS, 1964

SPECIES	(THOUSANDS OF POUNDS)					
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
FISH	1	156	67	103	170	179
SALT-WATER: BLOCKS . . . . .						
FILLETS AND STEAKS:						
COD . . . . .	45	46	94	253	245	214
FLOUNDER . . . . .	171	80	119	500	920	866
HADDOCK . . . . .	343	848	1,591	2,607	1,784	1,785
HALIBUT . . . . .	-	-	-	15	878	818
POLLOCK . . . . .	316	993	1,212	1,110	1,371	2,199
SALMON . . . . .	335	27	43	141	72	36
WHITING . . . . .	-	-	9	9	34	-
UNCLASSIFIED . . . . .	45	42	116	196	47	195
TOTAL FILLETS AND STEAKS . . . . .	1,255	2,036	3,184	4,831	5,498	5,753
TOTAL BLOCKS, FILLETS, AND STEAKS	1,256	2,192	3,291	4,934	5,668	5,932
ROUND, DRESSED, ETC.:						
HALIBUT . . . . .	-	-	-	1,546	5,115	6,124
MACKEREL (EXCEPT SPANISH) . . . . .	55	83	14	47	24	108
SABLEFISH . . . . .	1	7	11	27	125	206
SALMON:						
CHINOOK OR KING . . . . .	-	-	3	45	601	1,668
SILVER OR COHO . . . . .	-	-	-	-	-	247
CHUM OR KETA . . . . .	-	-	-	-	-	12
OTHER . . . . .	-	-	-	-	-	406
TOTAL SALMON . . . . .	-	-	3	45	601	2,333
SMELT . . . . .	5	-	-	3	-	15
SWORDFISH . . . . .	-	-	-	-	7	26
TUNA . . . . .	-	-	-	1	3	2
WHITING, HEADED AND GUTTED . . . . .	25	7	18	-	251	4,974
OTHER (EXCEPT BAIT) . . . . .	1,761	1,294	1,775	2,672	2,166	1,546
TOTAL SALT-WATER FISH . . . . .	3,123	3,583	5,072	9,275	13,960	21,266
FRESH-WATER:						
FILLETS AND STEAKS . . . . .	-	-	-	1	-	7
ROUND, DRESSED, ETC.:						
CHUBS . . . . .	-	-	-	1	12	1
TROUT . . . . .	38	38	57	54	50	89
WHITEFISH . . . . .	1	-	1	1	-	34
OTHER (EXCEPT BAIT) . . . . .	5	10	61	120	39	69
TOTAL FRESH-WATER FISH . . . . .	44	48	119	177	101	220
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER) . . . . .	3,065	2,523	1,899	4,119	7,532	7,566
SHELLFISH						
CRABS (INCLUDING CRAB MEAT) . . . . .	324	417	491	363	169	1,083
SPINY LOBSTER (TAILS) . . . . .	22	24	17	15	28	14
OYSTER MEATS . . . . .	215	236	311	569	387	385
SCALLOP MEATS . . . . .	92	80	96	265	345	333
SHRIMP:						
RAW (HEADLESS, SHELL-ON) . . . . .	2,415	1,604	1,627	2,532	2,661	2,937
ALL OTHER (INCLUDING BREADED) . . . . .	5,738	6,126	6,013	5,089	3,988	4,726
TOTAL SHRIMP . . . . .	8,153	7,730	7,640	7,621	6,649	7,663
SQUID . . . . .	200	210	71	189	156	85
OTHER . . . . .	108	78	129	460	279	272
TOTAL SHELLFISH . . . . .	9,114	8,775	8,754	9,482	8,013	9,835
TOTAL FISH AND SHELLFISH . . . . .	15,346	14,929	15,644	23,053	29,606	38,887

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GENERAL REVIEW

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## SUMMARY OF FREEZINGS, BY MONTHS, 1964 - Continued

(THOUSANDS OF POUNDS)

SPECIES	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
<u>FISH</u>							
SALT-WATER: BLOCKS . . . . .	177	331	210	129	220	220	1,963
FILLETS AND STEAKS:							
COD . . . . .	216	138	66	161	114	28	1,620
FLOUNDER . . . . .	330	963	598	992	724	724	7,263
HADDOCK . . . . .	1,068	915	468	731	278	377	12,795
HALIBUT . . . . .	479	174	169	-	-	-	1,928
OCEAN PERCH . . . . .	2,638	2,585	2,103	2,420	1,480	895	19,232
POLLOCK . . . . .	76	39	38	51	595	153	1,600
SAFETY . . . . .	2	2	2	9	3	-	69
WHITING . . . . .	461	290	155	156	169	6	1,461
UNCLASSIFIED . . . . .	256	346	263	361	153	42	2,212
TOTAL FILLETS AND STEAKS . . . . .	5,524	5,432	3,862	4,873	3,782	2,225	48,255
TOTAL BLOCKS, FILLETS, AND STEAKS	5,701	5,763	4,072	5,002	4,002	2,445	50,218
ROUND, DRESSED, ETC.:							
HALIBUT . . . . .	5,719	4,206	1,397	655	-	-	24,762
MACKEREL (EXCEPT SPANISH) . . . . .	245	41	53	231	21	39	961
SABLEFISH . . . . .	298	513	613	922	191	5	2,919
SALMON:							
CHINOOK OR KING . . . . .	1,759	1,323	634	130	62	-	6,225
SILVER OR COHO . . . . .	1,345	2,188	1,713	470	38	-	5,951
CHUM OR KETA . . . . .	510	519	243	545	624	-	2,453
OTHER . . . . .	774	750	261	37	28	-	2,256
TOTAL SALMON . . . . .	4,388	4,730	2,851	1,182	752	-	16,685
SMELT . . . . .	14	60	36	17	6	8	164
SWORDFISH . . . . .	71	7	4	20	8	4	147
TUNA . . . . .	1,309	923	819	628	40	18	3,749
WHITING, HEADED AND GUTTED . . . . .	13,131	5,205	1,970	1,177	614	23	27,396
OTHER (EXCEPT BAIT) . . . . .	1,315	2,287	1,305	2,671	2,299	2,772	23,883
TOTAL SALT-WATER FISH . . . . .	32,191	23,742	13,120	12,505	7,933	5,314	151,084
<u>FRESH-WATER:</u>							
FILLETS AND STEAKS . . . . .	-	-	5	16	8	-	37
ROUND, DRESSED, ETC.:							
CHUBS . . . . .	13	12	46	68	53	35	241
TROUT . . . . .	72	85	94	114	84	69	844
WHITEFISH . . . . .	46	5	8	-	10	36	142
OTHER (EXCEPT BAIT) . . . . .	63	39	40	73	17	19	595
TOTAL FRESH-WATER FISH . . . . .	214	141	193	271	172	159	1,859
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER) . . . . .	7,401	7,345	5,127	4,640	4,063	1,914	57,194
<u>SELLFISH</u>							
CRABS (INCLUDING CRAB MEAT) . . . . .	1,404	804	340	561	322	849	7,127
SPINY LOBSTER (TAILS) . . . . .	23	57	44	34	20	17	315
OSTER MEATS . . . . .	1	11	11	49	56	61	2,303
SCALLOP MEATS . . . . .	87	194	163	112	120	133	2,020
SHRIMP:							
RAW (HEADLESS, SHELL-ON) . . . . .	4,300	5,244	5,612	5,801	4,420	3,244	42,397
ALL OTHER (INCLUDING BREADED) . . . . .	5,076	5,506	5,824	5,788	5,444	5,142	64,460
TOTAL SHRIMP . . . . .	9,376	10,750	11,436	11,589	9,864	8,386	106,857
SQUID . . . . .	139	61	12	12	148	218	1,501
OTHER . . . . .	238	55	87	112	79	128	2,024
TOTAL SELLFISH . . . . .	11,289	11,922	12,093	12,469	10,609	9,792	122,147
TOTAL FISH AND SELLFISH . . . . .	51,095	43,150	30,533	29,895	22,777	17,179	332,284

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, 1964

(THOUSANDS OF POUNDS)

SPECIES	NEW ENGLAND	MIDDLE ATLANTIC	SOUTH ATLANTIC	NORTH CENTRAL, EAST	NORTH CENTRAL, WEST
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
<u>FISH</u>					
SALT-WATER: BLOCKS . . . . .	1,843	-	1	-	-
FILLETS AND STEAKS:					
COD . . . . .	1,283	8	-	-	-
FLOUNDER . . . . .	6,703	-	11	-	-
HADDOCK . . . . .	12,793	2	-	-	-
OCEAN PERCH . . . . .	18,309	-	-	-	-
POLLOCK . . . . .	1,599	-	-	-	-
WHITING . . . . .	1,481	-	-	-	-
UNCLASSIFIED . . . . .	697	-	106	-	-
TOTAL FILLETS AND STEAKS . . . . .	42,865	10	117	-	-
TOTAL BLOCKS, FILLETS, AND STEAKS	44,708	10	118	-	-
ROUND, DRESSED, ETC.:					
HALIBUT . . . . .	25	44	-	-	-
MACKEREL (EXCEPT SPANISH) . . . . .	557	203	123	-	-
SALMON, OTHER . . . . .	5	139	-	-	-
SELT . . . . .	-	17	-	-	-
SWORDFISH . . . . .	108	32	-	-	-
TUNA . . . . .	1,426	15	150	-	-
WHITING, HEADED AND GUTTED . . . . .	27,042	295	69	-	-
OTHER (EXCEPT BAIT) . . . . .	13,308	2,695	1,156	2	-
TOTAL SALT-WATER FISH . . . . .	87,179	3,440	1,616	2	-
FRESH-WATER:					
FILLETS AND STEAKS . . . . .	-	-	-	25	12
ROUND, DRESSED, ETC.:					
CHUBS . . . . .	-	89	-	152	-
TROUT . . . . .	4	-	-	4	-
WHITEFISH . . . . .	-	138	-	4	-
OTHER (EXCEPT BAIT) . . . . .	2	166	163	154	46
TOTAL FRESH-WATER FISH . . . . .	6	413	163	339	58
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER) . . . . .	35,373	2,299	1,862	141	-
<u>SHELLFISH</u>					
CRABS (INCLUDING CRAB MEAT) . . . . .	-	-	208	-	-
SPINY LOBSTER (TAILS) . . . . .	-	-	162	-	-
OYSTER MEATS . . . . .	-	-	895	-	2
SCALLOP MEATS . . . . .	1,840	97	83	-	-
SHRIMP:					
RAW (HEADLESS, SHELL-ON) . . . . .	99	2,417	6,475	-	-
ALL OTHER (INCLUDING BREADED) . . . . .	-	-	29,795	-	-
TOTAL SHRIMP . . . . .	99	2,417	36,270	-	-
SQUID . . . . .	8	400	11	-	-
OTHER . . . . .	1,297	145	72	-	-
TOTAL SHELLFISH . . . . .	3,244	3,059	37,691	-	2
TOTAL FISH AND SHELLFISH . . . . .	125,802	9,211	41,332	482	60

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, 1964 - Continued

{THOUSANDS OF POUNDS}

SPECIES	SOUTH CENTRAL	PACIFIC	ALASKA	TOTAL
FISH	QUANTITY	QUANTITY	QUANTITY	QUANTITY
SALT-WATER: BLOCKS . . . . .	-	119	-	1,963
FILLETS AND STEAKS: COD . . . . .	-	329	-	1,620
FLOUNDER . . . . .	58	491	-	7,263
HADDOCK . . . . .	-	-	-	12,795
HALIBUT . . . . .	-	576	1,352	1,929
OCEAN PERCH . . . . .	-	973	-	19,282
POLLOCK . . . . .	-	7	-	1,606
SAFON . . . . .	-	7	61	68
WHITING . . . . .	-	-	-	1,481
UNCLASSIFIED . . . . .	43	1,363	3	2,212
TOTAL FILLETS AND STEAKS . . . . .	101	3,746	1,416	48,255
TOTAL BLOCKS, FILLETS, AND STEAKS ROUND, DRESSED, ETC.: . . . . .	101	3,865	1,416	50,216
HALIBUT . . . . .	-	6,843	17,850	24,762
MACKEREL (EXCEPT SPANISH) . . . . .	-	78	-	961
SABLEFISH . . . . .	-	1,942	977	2,919
SALMON: CHINOOK OR KING . . . . .	-	2,213	4,012	6,225
SILVER OR COHO . . . . .	-	3,295	2,656	5,951
CHUM OR KETA . . . . .	-	1,360	893	2,453
OTHER . . . . .	-	396	1,716	2,256
TOTAL SALMON . . . . .	-	7,454	9,277	16,885
SMELT . . . . .	-	147	-	164
SWORDFISH . . . . .	-	7	-	147
TUNA . . . . .	-	2,158	-	3,749
WHITING, HEADED AND GUTTED . . . . .	-	-	-	27,396
OTHER (EXCEPT BAIT) . . . . .	5,361	1,330	31	23,883
TOTAL SALT-WATER FISH . . . . .	5,462	23,834	29,551	151,084
FRESH-WATER: FILLETS AND STEAKS . . . . .	-	-	-	37
ROUND, DRESSED, ETC.: . . . . .	-	-	-	-
CHUBS . . . . .	-	-	-	241
TROUT . . . . .	1	835	-	844
WHITEFISH . . . . .	-	-	-	142
OTHER (EXCEPT BAIT) . . . . .	27	17	-	59
TOTAL FRESH-WATER FISH . . . . .	28	852	-	1,859
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER) . . . . .	179	12,997	4,343	57,194
<u>SHELLFISH</u>				
CRABS (INCLUDING CRAB MEAT) . . . . .	426	407	6,086	7,127
SPINY LOBSTER (TAILS) . . . . .	129	24	-	315
OSTER MEATS . . . . .	1,228	168	-	2,303
SCALLOP MEATS . . . . .	-	-	-	2,020
SHRIMP: RAW (HEADLESS, SHELL-ON) . . . . .	33,032	362	12	42,397
ALL OTHER (INCLUDING BREADED) . . . . .	34,543	38	84	64,460
TOTAL SHRIMP . . . . .	67,575	400	96	106,857
QUID . . . . .	81	1,001	-	1,501
OTHER . . . . .	304	197	9	2,024
TOTAL SHELLFISH . . . . .	69,743	2,217	6,191	122,147
TOTAL FISH AND SHELLFISH . . . . .	75,412	39,900	40,085	332,284

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, 1964

MONTH	(THOUSANDS OF POUNDS)				
	NEW ENGLAND	MIDDLE ATLANTIC	SOUTH ATLANTIC	NORTH CENTRAL, EAST	NORTH CENTRAL, WEST
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
JANUARY . . . . .	3,054	535	3,826	12	3
FEBRUARY . . . . .	3,769	182	3,460	1	-
MARCH . . . . .	5,249	546	3,660	-	-
APRIL . . . . .	8,120	1,239	4,849	68	2
MAY . . . . .	10,060	1,741	3,343	40	4
JUNE . . . . .	16,813	1,234	3,777	17	25
JULY . . . . .	25,920	1,226	3,269	5	-
AUGUST . . . . .	17,116	1,005	2,661	8	-
SEPTEMBER . . . . .	10,365	545	3,668	43	4
OCTOBER . . . . .	11,110	302	2,539	144	4
NOVEMBER . . . . .	8,430	313	3,265	67	-
DECEMBER . . . . .	5,376	333	2,975	77	5
TOTAL . . . . .	125,802	9,211	41,332	482	60

MONTH	SOUTH CENTRAL			TOTAL
	PACIFIC	ALASKA		
	QUANTITY	QUANTITY	QUANTITY	QUANTITY
JANUARY . . . . .	5,053	1,007	1,856	15,346
FEBRUARY . . . . .	5,156	1,022	1,339	14,929
MARCH . . . . .	4,606	1,014	569	15,844
APRIL . . . . .	4,387	1,995	2,403	23,053
MAY . . . . .	4,709	5,801	3,888	29,606
JUNE . . . . .	4,649	4,398	7,974	38,887
JULY . . . . .	6,489	4,079	10,064	51,095
AUGUST . . . . .	8,582	6,590	6,788	43,150
SEPTEMBER . . . . .	8,385	4,454	3,049	30,533
OCTOBER . . . . .	9,535	5,086	1,165	29,885
NOVEMBER . . . . .	7,573	2,877	252	22,777
DECEMBER . . . . .	6,088	1,867	736	17,179
TOTAL . . . . .	75,412	39,900	40,085	332,284

NOTE:--THE STATES INCLUDED IN THE VARIOUS SECTIONS ARE INDICATED ON PAGES 66 AND 67.



## COLD STORAGE HOLDINGS OF FROZEN FISHERY PRODUCTS, 1964

Holdings of frozen fishery products were highest on January 1, when 244.1 million pounds were in storage. The January 31 holdings of 219.9 million pounds were second highest, followed by the September 30 and November 30 holdings of 218.6 and 218.1 million pounds, respectively. The lowest level was on April 30, when stocks totaled only 155.7 million pounds.

# GENERAL REVIEW

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## SUMMARY OF HOLDINGS, BY MONTHS, 1964

(THOUSANDS OF POUNDS)

SPECIES	JANUARY 1	JANUARY 31	FEBRUARY 29	MARCH 31	APRIL 30	MAY 31
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
<b>FISH</b>						
SALT-WATER: BLOCKS . . . . .	25,834	24,754	17,178	10,878	9,890	13,118
FILLETS AND STEAKS: COD . . . . .	8,916	7,727	7,018	8,152	7,599	6,733
FLOUNDER . . . . .	8,021	7,459	5,409	4,374	4,074	4,581
HADDOCK . . . . .	4,785	3,477	3,265	5,692	7,213	7,782
HALIBUT . . . . .	3,858	2,539	2,183	1,944	1,261	2,476
OCEAN PERCH . . . . .	16,339	13,125	9,668	8,790	7,556	7,754
POLLOCK . . . . .	966	1,006	625	681	705	684
SMALM . . . . .	741	403	373	204	192	172
WHITING . . . . .	1,755	1,374	1,012	804	379	307
UNCLASSIFIED . . . . .	6,497	5,612	4,710	4,807	4,972	5,378
TOTAL FILLETS AND STEAKS . . . . .	51,898	42,722	34,263	35,438	34,412	35,867
TOTAL BLOCKS, FILLETS, AND STEAKS . . . . .	77,732	67,476	51,441	46,316	44,302	48,985
FISH STICKS AND PORTIONS (RAW AND COOKED). . . . .	13,614	11,330	8,266	8,428	9,290	9,409
ROUND, DRESSED, ETC.: . . . . .	20,027	17,738	13,710	9,855	8,088	11,611
HALIBUT . . . . .	871	859	687	559	508	383
MACKEREL (EXCEPT SPANISH) . . . . .	2,369	2,028	1,781	1,576	1,397	1,248
SALMON: . . . . .						
CHINOOK OR KING . . . . .	3,542	3,777	3,038	2,775	2,329	2,536
SILVER OR COHO . . . . .	3,565	2,850	2,140	1,939	1,447	1,982
CHUM OR KETA . . . . .	1,671	1,311	1,034	809	727	792
OTHER . . . . .	1,350	1,210	867	899	546	655
TOTAL SALMON . . . . .	10,128	9,148	7,079	6,422	5,049	4,965
SMELT . . . . .	1,155	985	1,055	1,011	1,109	904
SWORDFISH . . . . .	2,933	2,581	1,782	1,685	1,595	1,607
TUNA . . . . .	804	175	179	108	130	240
WHITING, HEADED AND GUTTED . . . . .	10,687	8,333	5,881	5,312	3,865	1,836
OTHER (EXCEPT BAIT) . . . . .	11,634	10,490	9,196	7,793	10,553	9,093
TOTAL SALT-WATER FISH . . . . .	151,954	131,143	101,057	89,065	85,886	90,281
<b>FRESH-WATER:</b>						
FILLETS AND STEAKS: . . . . .	1,459	1,279	985	806	680	757
ROUND, DRESSED, ETC.: . . . . .						
CHUBS . . . . .	1,697	1,787	1,462	1,398	1,284	1,384
TROUT . . . . .	1,323	1,197	1,023	1,044	1,075	1,049
WHITEFISH . . . . .	1,220	1,466	1,497	1,144	859	609
OTHER (EXCEPT BAIT) . . . . .	3,009	2,373	2,390	2,257	2,224	2,028
TOTAL FRESH-WATER FISH . . . . .	8,708	8,102	7,357	6,649	6,122	5,627
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER) . . . . .	6,486	6,668	7,106	7,835	8,654	13,418
<b>SHELLFISH</b>						
CRABS (INCLUDING CRAB MEAT) . . . . .	5,037	4,694	5,053	5,586	5,597	5,270
SPINY LOBSTER (TAILS) . . . . .	5,711	5,301	4,701	4,660	4,143	3,721
OYSTER MEATS . . . . .	1,426	1,295	1,365	1,785	2,055	1,993
SCALLOP MEATS . . . . .	3,275	2,736	1,774	1,594	1,730	1,591
SHRIMP: . . . . .						
RAW (HEADLESS, SHELL-ON) . . . . .	45,335	43,752	35,303	31,428	26,524	26,082
ALL OTHER (INCLUDING BREADED) . . . . .	13,781	13,175	11,065	11,264	10,411	9,637
TOTAL SHRIMP . . . . .	59,116	56,927	46,368	42,692	36,935	37,719
SQUID . . . . .	968	1,072	1,105	1,074	1,001	1,019
OTHER . . . . .	2,029	1,981	1,657	1,729	1,570	1,522
TOTAL SHELLFISH . . . . .	76,922	74,006	62,023	59,130	55,031	52,775
TOTAL FISH AND SHELLFISH . . . . .	244,070	219,919	177,543	162,679	155,693	162,301
<b>CURED FISH</b>						
HERRING, SALTED . . . . .	5,601	6,360	6,883	6,295	6,139	6,156
SALMON, MILD-CURED . . . . .	3,964	3,397	3,346	3,116	2,561	2,669
OTHER SALTED . . . . .	1,726	1,847	1,853	2,098	2,013	1,977
SMOKED FISH . . . . .	555	534	467	482	647	751
TOTAL CURED FISH . . . . .	11,846	12,138	12,549	11,991	11,360	11,553

(CONTINUED ON NEXT PAGE)

# GENERAL REVIEW

## SUMMARY OF HOLDINGS, BY MONTHS, 1964 - Continued

(THOUSANDS OF POUNDS)

SPECIES	JUNE 30	JULY 31	AUGUST 31	SEPTEM- BER 30	OCTOBER 31	NOVEM- BER 30	DECEMBER 31
<u>FISH</u>							
SALT-WATER: BLOCKS . . . . .	14,035	18,458	23,855	22,699	20,080	18,744	20,010
FILLETS AND STEAKS:							
COD . . . . .	6,178	6,469	6,878	7,024	6,685	6,381	6,220
FLOUNDER . . . . .	5,133	4,658	7,132	7,455	8,083	9,060	9,000
HADDOCK . . . . .	9,128	9,518	9,665	8,808	8,721	7,405	7,448
HALIBUT . . . . .	3,259	2,413	3,177	3,501	4,056	3,641	2,803
OCEAN PERCH . . . . .	2,289	9,926	11,657	12,789	14,812	14,999	15,395
POLLOCK . . . . .	541	680	575	393	354	721	752
SAFETY . . . . .	139	138	136	125	778	247	190
WHITING . . . . .	572	1,027	1,287	1,465	1,435	1,388	1,376
UNCLASSIFIED . . . . .	5,292	6,662	6,930	6,154	6,283	6,965	6,789
TOTAL FILLETS AND STEAKS . . . . .	38,529	40,911	47,381	46,014	51,067	50,827	49,973
TOTAL BLOCKS, FILLETS, AND STEAKS FISH STICKS AND PORTIONS (RAW AND COOKED) . . . . .	52,564	59,369	71,236	70,713	71,147	69,571	69,983
ROUND, DRESSED, ETC.:							
HALIBUT . . . . .	9,679	8,508	9,112	9,210	9,201	9,204	8,094
MACKEREL (EXCEPT SPANISH) . . . . .	13,942	19,908	19,641	18,296	15,669	13,330	11,896
SABLEFISH . . . . .	456	601	527	556	756	1,004	996
1,294	1,424	1,811	1,985	2,468		2,531	2,224
SALMON:							
CHINOOK OR KING . . . . .	4,127	5,197	5,873	6,379	5,440	6,275	5,310
SILVER OR COHO . . . . .	952	1,730	4,622	6,757	5,418	5,352	4,728
CHUM OR KETA . . . . .	646	814	1,303	1,778	2,232	2,964	2,692
OTHER . . . . .	1,118	1,947	2,448	2,427	1,783	1,655	1,363
TOTAL SALMON . . . . .	6,843	9,688	14,246	17,341	14,873	16,246	14,093
SMELT . . . . .	771	820	899	1,157	1,436	1,637	856
SWORDFISH . . . . .	1,294	1,325	1,525	1,567	1,922	2,261	2,450
TUNA . . . . .	264	877	1,627	6,227	2,505	1,356	829
WHITING, HEADED AND QUOTED . . . . .	5,292	16,263	17,452	16,572	15,600	15,478	11,354
OTHER (EXCEPT BAIT) . . . . .	6,555	9,317	9,591	9,571	9,449	10,293	10,065
TOTAL SALT-WATER FISH . . . . .	100,954	128,100	147,766	153,161	145,026	142,911	132,840
<u>FRESH-WATER:</u>							
FILLETS AND STEAKS . . . . .	785	900	736	778	1,156	1,123	828
ROUND, DRESSED, ETC.:							
CHUBS . . . . .	1,414	1,306	1,426	1,493	967	788	1,011
THROU . . . . .	1,027	917	933	923	1,223	1,424	1,503
WHITEFISH . . . . .	804	965	1,326	1,540	1,555	1,330	1,467
OTHER (EXCEPT BAIT) . . . . .	2,657	2,297	2,313	2,775	2,782	2,818	2,743
TOTAL FRESH-WATER FISH . . . . .	6,687	6,385	6,734	7,599	7,684	7,483	7,552
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER) . . . . .	17,296	16,197	14,417	11,285	6,545	6,989	7,060
<u>SELLFISH</u>							
CRABS (INCLUDING CRAB MEAT) . . . . .	5,439	4,912	3,823	4,036	6,578	6,678	8,259
SPINY LOBSTER (TAILS) . . . . .	3,759	3,335	3,106	2,614	2,161	2,784	2,711
OYSTER MEATS . . . . .	2,216	1,747	1,548	1,270	1,195	1,075	1,051
SCALLOP MEATS . . . . .	1,981	2,074	2,741	2,476	2,530	2,913	3,078
SHRIMP:							
RAW (HEADLESS, SHELL-ON) . . . . .	25,546	24,315	21,956	22,909	26,674	33,268	36,641
ALL OTHER (INCLUDING BREADED) . . . . .	9,972	9,124	10,065	9,582	10,390	10,439	11,875
TOTAL SHRIMP . . . . .	35,518	33,439	32,017	32,471	37,264	43,707	48,516
SQUID . . . . .	1,058	1,379	1,569	1,576	1,637	1,853	1,602
OTHER . . . . .	1,741	1,964	2,003	2,244	2,016	2,114	1,937
TOTAL SHELLFISH . . . . .	51,712	48,650	46,807	46,667	53,382	60,724	67,154
TOTAL FISH AND SHELLFISH . . . . .	176,649	199,532	215,724	216,642	212,637	218,107	214,006
<u>CURED FISH</u>							
HERLING, SALTED . . . . .	5,562	6,188	5,713	4,984	5,230	6,762	6,895
SAFETY, MILD-CURED . . . . .	3,136	4,061	4,946	5,489	5,175	4,689	4,136
OTHER SALTED . . . . .	1,741	2,027	2,193	2,341	2,096	2,323	2,254
SMOKED FISH . . . . .	736	682	659	649	539	541	498
TOTAL CURED FISH . . . . .	11,460	12,958	13,511	13,463	13,040	14,315	13,763

# GENERAL REVIEW

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## SUMMARY OF HOLDINGS, BY SECTIONS AND MONTHS, 1964

(THOUSANDS OF POUNDS)					
DATE	NEW ENGLAND	MIDDLE ATLANTIC	SOUTH ATLANTIC	NORTH CENTRAL EAST	NORTH CENTRAL WEST
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
JANUARY 31 . . . . .	60,617	40,419	15,600	20,880	10,390
FEBRUARY 29 . . . . .	42,713	36,231	12,713	16,842	9,196
MARCH 31 . . . . .	37,827	35,565	11,381	13,432	6,190
APRIL 30 . . . . .	39,593	34,647	10,594	11,359	8,406
MAY 31 . . . . .	45,372	29,915	9,543	11,060	8,917
JUNE 30 . . . . .	54,238	27,287	9,422	12,767	10,122
JULY 31 . . . . .	71,749	25,211	8,044	13,312	9,792
AUGUST 31 . . . . .	82,453	28,932	8,420	13,267	10,595
SEPTEMBER 30 . . . . .	79,400	30,088	12,345	13,776	11,910
OCTOBER 31 . . . . .	73,804	30,304	9,054	15,241	11,962
NOVEMBER 30 . . . . .	70,932	33,643	10,982	16,936	14,339
DECEMBER 31 . . . . .	67,696	33,796	12,639	16,106	14,370

DATE	SOUTH CENTRAL	PACIFIC	ALASKA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY
JANUARY 31 . . . . .	19,754	42,773	9,486	219,919
FEBRUARY 29 . . . . .	16,388	36,284	7,176	177,543
MARCH 31 . . . . .	16,241	35,015	5,028	162,670
APRIL 30 . . . . .	14,271	32,039	4,684	155,693
MAY 31 . . . . .	14,438	36,548	6,508	162,301
JUNE 30 . . . . .	13,164	38,393	11,256	176,649
JULY 31 . . . . .	14,458	39,228	14,738	199,532
AUGUST 31 . . . . .	16,381	37,852	17,513	215,724
SEPTEMBER 30 . . . . .	15,743	40,631	15,601	218,642
OCTOBER 31 . . . . .	16,429	46,672	9,271	212,537
NOVEMBER 30 . . . . .	17,161	48,390	5,724	216,107
DECEMBER 31 . . . . .	17,608	48,019	4,372	214,506

NOTE:--THE STATES INCLUDED IN THE VARIOUS SECTIONS ARE INDICATED ON PAGES 66 AND 67.

## COLD STORAGE HOLDINGS OF CURED FISH, 1964

Monthly average holdings of salted and smoked fish were 12.7 million pounds. Cured herring (6.1 million pounds) and mild-cured salmon (3.9 million pounds) accounted for 79 percent of the average cold storage inventories of cured fish.

## SUMMARY OF HOLDINGS OF CURED FISH, BY MONTHS, 1964

DATE	(THOUSANDS OF POUNDS)				
	SALTED			SMOKED	TOTAL
	HERRING, CURED	SALMON, MILD- CURED	OTHER		
JANUARY 31 . . . . .	6,360	3,397	1,847	534	12,138
FEBRUARY 29 . . . . .	6,683	3,346	1,853	467	12,549
MARCH 31 . . . . .	6,205	3,116	2,008	482	11,991
APRIL 30 . . . . .	6,139	2,561	2,013	647	11,360
MAY 31 . . . . .	6,156	2,669	1,977	751	11,553
JUNE 30 . . . . .	5,562	3,136	2,026	736	11,460
JULY 31 . . . . .	6,188	4,061	2,027	662	12,959
AUGUST 31 . . . . .	5,713	4,946	2,193	659	13,511
SEPTEMBER 30 . . . . .	4,984	5,489	2,341	649	13,463
OCTOBER 31 . . . . .	5,230	5,175	2,096	539	13,040
NOVEMBER 30 . . . . .	6,762	4,689	2,323	541	14,315
DECEMBER 31 . . . . .	6,895	4,136	2,254	496	13,783

## GENERAL REVIEW

### FOREIGN FISHERY TRADE, 1964

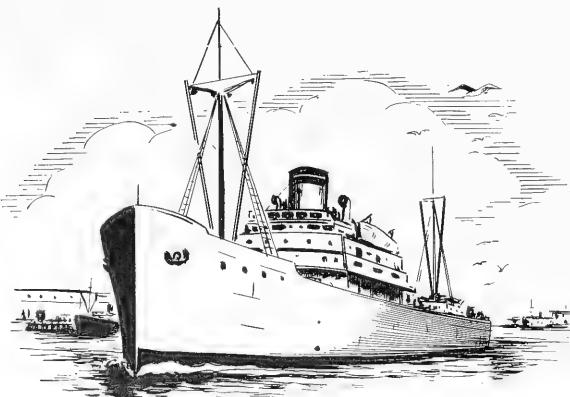
U. S. foreign trade in fishery products was valued at a record \$628 million--an increase of \$71 million compared with 1963. Imports for consumption were valued at \$564 million and exports, \$64 million. The value of imports was \$63.5 million more than in 1963, while exports increased \$7.6 million.

Imports of edible fishery products were 1.3 billion pounds valued at \$434 million. Compared with 1963, this was an increase of 10 percent in volume and 8 percent in value. The increase was due chiefly to larger receipts of fresh and frozen sea herring, tuna, fillets and steaks, shrimp, and canned sardines. Other important edible items (including ground-fish fillets and blocks) received in considerable volume in 1964 were fresh and frozen halibut; lobsters (common and spiny); canned tuna in brine; and pickled or salted cod, haddock, hake, pollock, and cusk.

Shrimp was the major item imported with respect to value. Nearly 154.6 million pounds (including fresh and frozen, canned, and cured) valued at \$107 million were received from 57 countries. Shrimp accounted for 25 percent of the value of imported edible items in 1964. Mexico, Panama, and India were among the principal sources. Mexican shrimp accounted for 47 percent of the total imports of shrimp in 1964.

Imports of nonedible fishery products were valued at \$131 million in 1964. Important items were fish meal, cultured pearls, and fish and marine animal oils. Fish meal and scrap accounted for 34 percent of the value of imported nonedible fishery products in 1964.

Exports of domestic edible fishery products (94.8 million pounds valued at \$42.8 million) increased 46 percent in quantity and 41 percent in value compared with the previous year--principally because of exporting more fresh and frozen salmon to Japan and canned salmon to the United Kingdom. Exports of nonedible domestic fishery products were valued at \$21.3 million--19 percent less than in 1963. Exports of foreign produced fishery products were \$9.4 million compared with \$8.5 million in 1963.



## GENERAL REVIEW



### Explanation of Changes In Reporting Statistics on U. S. Foreign Trade in Fishery Products

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 statistical digests published by the Bureau of Commercial Fisheries and its predecessor organizations.

Until September 1963, data were compiled from Bureau of the Census records utilizing "Schedule A. Statistical Classification of Commodities Imported into the United States." However, since August 31, 1963, U. S. importers have been required to report shipments in terms of "Tariff Schedules of the United States Annotated." Commencing with September 1963, "Schedule A. Statistical Classification of Commodities Imported into the United States" were replaced by commodity classifications (for statistical reporting and publication purposes) in the "Tariff Schedules of the United States Annotated" (TSUSA).

The principal effect of this change in reporting has been an unavoidable break in the historical and current series of statistics on the imports of fishery commodities. In some instances there were direct correlations between the Schedule A commodity numbers and TSUSA item numbers; however, there were no apparent correlations for other commodity numbers. A number of fishery items described in Schedule A. classifications lost their identity when the TSUSA classifications became effective. Other fishery items not listed in Schedule A. classifications are described in the new TSUSA classifications.

This publication has been reorganized in an effort to retain continuity in the Bureau's reporting of historical and current statistics of foreign trade in fishery products.



# GENERAL REVIEW

## EXPORTS OF DOMESTIC FISHERY PRODUCTS, 1963-64

ITEM	UNIT	1963		1964	
		QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS
EDIBLE FISHERY PRODUCTS					
FRESH OR FROZEN:					
COD, HADDOCK, HAKE, POLLOCK, AND CUSK . . . . .	1,000 POUNDS	543	113	563	140
SALMON . . . . .	00	4,888	2,530	22,560	5,371
OTHER . . . . .	00	13,921	1,658	9,965	1,664
SHELLFISH:					
SHRIMP . . . . .	00	8,078	7,748	7,952	7,103
OYSTERS, SHUCKED . . . . .	00	251	191	362	301
OTHER (INCLUDING LOBSTERS, SHUCKED CLAMS, AND OYSTERS IN THE SHELL) . . . . .	00	2,580	1,196	2,478	1,644
TOTAL FRESH AND FROZEN . . . . .	00	30,261	13,636	43,780	16,223
CANNED:					
FISH:					
MACKEREL . . . . .	00	4,940	681	8,568	1,140
SALMON . . . . .	00	10,228	8,239	20,924	14,852
SARDINES:					
IN OIL . . . . .	00	146	50	839	244
NOT IN OIL . . . . .	00	3,493	666	2,426	485
TUNA . . . . .	00	201	119	416	194
OTHER (INCLUDING HERRING) . . . . .	00	723	628	595	596
SHELLFISH:					
SHRIMP . . . . .	00	3,199	3,054	3,692	3,664
SQUID . . . . .	00	8,048	742	7,005	662
OTHER (INCLUDING CRABS AND CRAB MEAT) . . . . .	00	1,685	1,263	2,928	2,222
TOTAL CANNED . . . . .	00	32,663	15,442	47,413	24,059
CURED, SALTED, PICKLED, OR DRY CURED:					
SALMON . . . . .	00	574	509	1,000	743
MISCELLANEOUS FISH . . . . .	00	309	121	858	230
SHRIMP . . . . .	00	80	81	157	145
TOTAL CURED . . . . .	00	963	711	2,015	1,118
FISH, SHELLFISH, AND OTHER MARINE ANIMAL PRODUCTS (INCLUDING CANNED OR FROZEN SPECIALTIES AND SMOKED FISH AND SHELLFISH).	00	858	587	1,627	1,478
TOTAL EDIBLE FISHERY PRODUCTS . . . . .	00	64,745	30,376	94,835	42,878
NONEDIBLE FISHERY PRODUCTS					
FISH AND MARINE ANIMAL BODY AND LIVER OIL (EXCEPT MEDICINAL). . . . .	00	262,342	15,636	151,469	13,096
WHALE AND SPERM OIL . . . . .	00	5,591	457	5,565	395
SEAL FURS, DRESSED OR DYED . . . . .	1,000 PIECES	75	5,877	73	4,706
PEARL ESSENCE . . . . .	1,000 POUNDS	17	276	23	322
SHELLS, UNMANUFACTURED . . . . .	00	14,988	2,137	16,617	1,606
FISH, SHELLFISH, AND OTHER MARINE ANIMAL PRODUCTS, NONEDIBLE . . . . .	-	-	1,846	-	1,201
TOTAL NONEDIBLE FISHERY PRODUCTS . . . . .	-	-	26,229	-	21,326
GRAND TOTAL . . . . .	-	-	56,605	-	64,204

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

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## EXPORTS OF FOREIGN FISHERY PRODUCTS, 1963-64

ITEM	UNIT	1963		1964	
		QUANTITY	1,000 DOLLARS	QUANTITY	1,000 DOLLARS
EDIBLE FISHERY PRODUCTS					
FRESH OR FROZEN:					
COD, HADDOCK, HAKE, POLLACK, AND CUSK.	1,000 POUNDS	192	50	165	46
DO		65	33	116	60
DO		1,049	173	2,306	409
DO		5,733	5,276	7,254	6,013
DO		278	234	182	138
TOTAL FRESH AND FROZEN	DO	7,317	5,766	10,023	6,566
CANNED:					
MACKEREL	DO	9	1	8	2
SALMON	DO	-	-	12	4
SARDINES:					
IN OIL	DO	34	12	15	6
NOT IN OIL	DO	237	41	3	1
TUNA	DO	58	20	85	46
OTHER FISH	DO	38	57	84	92
SHRIMP	DO	33	42	25	24
DO		9	1	45	4
DO		3,234	1,786	4,061	2,126
TOTAL CANNED	DO	3,652	1,962	4,338	2,305
CURED, SALTED, PICKLED, OR DRY CURED:					
SALMON	DO	3	1	6	4
MISCELLANEOUS FISH	DO	160	59	261	77
DO		2	3	6	3
TOTAL CURED	DO	165	63	273	84
FISH, SHELLFISH, AND OTHER MARINE ANIMAL PRODUCTS (INCLUDING CANNED OR FROZEN SPECIALTIES, AND SMOKED FISH AND SHELL-FISH)	DO	82	84	214	124
TOTAL EDIBLE FISHERY PRODUCTS	DO	11,216	7,875	14,848	9,179
NONEDIBLE FISHERY PRODUCTS					
FISH AND MARINE ANIMAL BODY AND LIVER OIL (EXCEPT MEDICINAL).	DO	1,110	90	22	4
DO		4,004	285	-	-
DO		4	113	1	25
SEAL FURS, DRESSED OR DYED	1,000 PIECES	(1)	4	(1)	3
PEARL ESSENCE	1,000 POUNDS	4	1	26	5
DO		1	-	-	-
DO		-	148	-	213
TOTAL NONEDIBLE FISHERY PRODUCTS	-	-	641	-	250
GRAND TOTAL	-	-	8,516	-	9,429

1/ LESS THAN 500 POUNDS OR \$500.



# IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1963-64

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## GENERAL REVIEW

ITEM	UNIT	1963			1964		
		FIRST 6 MONTHS 1,000 DOLLARS	LAST 4 MONTHS 1,000 DOLLARS	QUANTITY	TOTAL 1/ 1,000 DOLLARS	QUANTITY	1/ 1,000 DOLLARS
<b>FRESH OR FROZEN:</b>							
FISH; WHETHER OR NOT WHOLE (EXCEPT FILLETS, STEAKS, ETC.):							
FRESH-BOTTLED, CISCO, AND CHUB.	1,000 POUNDS	1,153	249	372	1,550	339	1,543
LAK. TROUT	DO	1,142	431	779	1,941	712	1,959
PIKE, EXCEPT YELLOW PINÉ	DO	1,358	511	(3) 241	(2)	513	513
SAUER (INCLUDING RAINBOW, BROOK, AND BROWN)	DO	2,538	1,201	1,511	1,03	1,04	1,04
WHITEFISH.	DO	9,569	4,362	4,365	13,985	5,923	1,960
YELLOW PERCH	DO	1,333	1,157	(3) 91	(3)	1,156	1,156
YELLOW PIKE	DO	4,579	1,908	2,926	(3) 110	7,505	6,641
UNCLASSIFIED	DO	3,444	88	(3) 34	(3)	5,449	5,449
TOTAL FRESH-WATER FISH	DO	25,249	8,590	12,080	4,295	37,329	12,986
SALT-WATER:							
COD, HADDOCK, HAKE, POLLACK, AND CUSK (INCLUDES EELS AND SHAD FOR LAST 4 MONTHS OF 1963 AND SAME FOR YEAR 1964)							
HADDOCK	DO	1,397	5,151	788	141	2,175	2,175
MACERATED	DO	16,614	5,129	4,108	1,229	22,722	6,358
SHAD	DO	739	116	1,237	178	1,976	2,278
TROUT	DO	595	74	430	554	1,928	2,278
SALMON	DO	5,042	3,063	3,856	2,040	6,058	5,016
SEA HERRING.	DO	22,369	567	20,056	4,580	21,163	5,830
SHAD	DO	3,35	8	(3) 781	(3)	4,455	4,455
SMELT	DO	5,72	3,029	3,029	2,394	6,781	5,150
STURGEON	DO	773	445	638	1,411	1,66	8,637
SWORD FISH:							
FRESH	DO	5,143	1,734	4,634	1,462	9,777	1,019
FROZEN	DO	135	33	67	18	202	51
TUNA (WHOLE AND OTHER THAN WHOLE): 5/							
ALbacore	DO	65,161	10,219	41,480	6,643	106,641	16,862
YELLOWFIN.	DO	76,517	10,347	28,924	3,968	105,441	14,315
SKI JACK (FILED)	DO	26,659	2,502	21,639	1,375	48,298	3,677
UNCLASSIFIED	DO	2,158	261	7,418	827	9,576	1,088
TOTAL TUNA	DO	170,495	23,329	99,461	12,813	269,355	36,142
TUNA LOINS AND DISCS:							
ALbacore	DO	2,190	(2) 867	2,742	1,064	4,932	1,931
TELLOFIN	DO	3,732	1,998	3,221	1,091	(2) 3,361	1,367
UNCLASSIFIED	DO	5,922	2,165	6,192	2,224	12,114	4,399
TOTAL LOINS AND DISCS.	DO	6,293	1,504	2,542	514	8,835	2,018
UNCLASSIFIED	DO	243,324	39,090	150,038	21,201	395,362	60,991
TOTAL SALT-WATER FISH.	DO	243,324	39,090	150,038	21,201	395,362	60,991

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

# GENERAL REVIEW

## IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1963-64 - Continued

ITEM	UNIT	1963			1964		
		FIRST 8 MONTHS QUANTITY	1,000 DOLLARS	LAST 4 MONTHS QUANTITY	1,000 DOLLARS	TOTAL 1/ 1,000 DOLLARS	QUANTITY
FRESH OR FROZEN - CONTINUED:							
FISH - CONTINUED:							
FILLETS, STEAKS, ETC.; GROUND FISH AND OCEAN PERCH;							
COD, HAKE, POLLACK, AND CUSK . . . . .	1,000 POUNDS	5,371	9,977	2,292	7,663	33,457	8,048
HADDOCK, COD, POLLOCK, AND CUSK . . . . .	DO	4,720	6,819	1,848	6,568	24,013	6,591
OCEAN PERCH, BLOCKS . . . . .	DO	2,613	9,657	2,097	5,275	22,933	5,809
BLOCKS . . . . .	DO	100,936	52,354	10,354	31,387	166,166	37,100
TOTAL GROUND FISH AND OCEAN PERCH . . . . .	DO	132,981	33,287	78,787	17,041	231,768	50,569
OTHER: FLounder or flatfish (EXCEPT HALIBUT), halibut and salmon . . . . .	DO	10,640	3,223	5,958	1,747	4,970	21,574
halibut and salmon . . . . .	DO	22,909	1,952	1,908	879	4,817	6,879
swordfish (TÉTÉ, CAÍ, ISH) . . . . .	DO	12,442	5,979	5,540	1,784	5,763	2,620
wolfish . . . . .	DO	5,450	1,315	1,590	409	1,724	5,312
unclassified salt-water fish . . . . .	DO	4,687	1,506	1,506	655	5,750	2,297
yellow perch . . . . .	DO	5,574	1,506	2,570	1,261	8,654	2,748
yellow pike . . . . .	DO	2,206	1,579	2,230	1,450	5,052	1,860
UNCLASSIFIED FRESH-WATER . . . . .	DO	21,060	4,423	4,423	4,423	6,116	3,962
TOTAL, OTHER THAN GROUND FISH . . . . .	DO	45,908	15,644	22,961	8,128	68,869	23,772
TOTAL FILLETS, STEAKS, ETC. . . . .	DO	196,669	45,931	101,748	25,169	300,637	74,100
FISH STICKS AND SIMILAR PRODUCTS . . . . .	DO	299	83	76	29	377	112
TOTAL FISH, FRESH AND FROZEN . . . . .	DO	467,761	96,794	263,944	51,395	731,705	148,169
SHELLFISH, ETC.:							
FISH OR FROZEN (INCLUDING PREPARED OR PRESERVED, EXCEPT CANNED)							
CRAB NEAT (FRESH COOKED) . . . . .	DO	500	213	181	51	561	264
LOBSTERS (CANNED) . . . . .	DO	210	160	41	44	231	844
COMMON (INCLUDES FRESH-COOKED MEAT) . . . . .	DO	16,633	13,427	9,194	2,632	21,847	10,707
SPINY . . . . .	DO	24,187	9,661	10,282	34,048	16,599	121
SHRIMP <sup>9</sup> . . . . .							
BREADED . . . . .	DO	62,703	42,235	(3)	(3)	(3)	317
PEELED AND deveined . . . . .	DO	20,281	14,140	(3)	(3)	(3)	16,041
PEELED, RAW . . . . .	DO	1,140	(2)	49,014	31,987	(2)	43,547
PEELED, COOKED . . . . .	DO	1,140	(2)	9,179	6,722	(2)	75,360
UNCLASSIFIED . . . . .	DO	6,745	(2)	807	493	(2)	20,340
TOTAL SHRIMP . . . . .	DO	90,086	61,969	60,052	39,942	150,138	101,911
CLAMS (IN SHELL OR SHUCKED) . . . . .							
EXCEPT SEED OYSTERS, (PRINCIPALLY SEED OYSTERS) . . . . .	DO	402	87	67	10	469	411
SCALLOPS (INCLUDES PREPARED AND PRESERVED) . . . . .	DO	805	334	575	271	1,380	905
FROG LEGS (INCLUDES PREPARED AND PRESERVED) . . . . .	DO	7	445	7/	2/24	7/	444
TURTLES (LIVE ONLY) . . . . .	DO	8,968	1,411	7/	746	5,437	497
DO	1,661	1,581	1,274	2,169	13,342	6,108	8,491
DO	239	79	250	1,128	2,935	2,217	2,442
TOTAL SHELLFISH, ETC., FRESH AND FROZEN, TOTAL FRESH AND FROZEN FISH, SHELLFISH, ETC. . . . .	DO	110,402	110,372	80,615	56,795	231,017	167,167
SEE FOOTNOTES AT END OF TABLE.	DO	618,163	207,166	344,559	108,190	962,722	315,356
(CONTINUED ON NEXT PAGE)							345,877

# GENERAL REVIEW

## IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1963-64 - Continued

ITEM	UNIT	1963				1964			
		FIRST 8 MONTHS	LAST 4 MONTHS	QUANTITY	1,000 DOLLARS	FIRST 8 MONTHS	LAST 4 MONTHS	QUANTITY	1,000 DOLLARS
CANNED: FISH; ANCHovies;	1,000 POUNDS	2,738 -	1,652 (2)	1,162 1, 271	600 77	3,900 271	2,452 (2)	4,735 65	3,917 772
IN OIL *	DO	-	-	-	-	-	-	-	-
SALMON;	DO	13,203 17,556	6,344 2,604	4,084	222 798	19,908 21,640	9,592 3,402	15 221	214 100
IN OIL *	DO	-	-	-	-	-	-	-	-
SARDINES;	DO	5,364	(2)	5	1,053	(2)	6,524	35	9,576 3,953
NOT IN OIL *	DO	-	-	-	-	-	-	-	-
HERRING; IN OIL *	DO	150 171	79 80	53	29	203 (3)	106 (3)	201 (3)	19 9,988
TUNA; IN OIL;	DO	-	-	-	-	-	-	-	-
ALBACORE;	DO	121	10	1	1	-	-	-	-
OTHER,	DO	171	80	53	29	224	118	201	106
TOTAL, IN OIL *	DO	-	-	-	-	-	-	-	-
IN BRINE:	DO	-	-	-	-	-	-	-	-
ALBACORE;	DO	17,932 15,779	8,543 5,457	12,508 11,151	5,008 3,946	30,340 26,038	14,451 9,205	33,620 29,626	16,048 7,119
OTHER,	DO	-	-	-	-	-	-	-	-
TOTAL, IN BRINE *	DO	33,611	14,000	23,659	9,747	57,270	23,746	54,446	23,167
BONITO AND YELLOWTAIL:	DO	-	-	-	-	-	-	-	-
IN OIL *	DO	3,018	866	462	135	3,460	1,003	3,050	894
IN BRINE *	DO	1,166	291	1,219	323	2,385	614	1,940	469
TOTAL, BONITO AND YELLOWTAIL *	DO	4,164	1,159	1,661	456	5,965	1,617	4,990	1,363
POLLOCK, SMOKED;	DO	3	2	3	3	6	5	9	7
ANTIPASTO, IN OIL;	DO	129	95	85	224	211	248	248	203
FISH CAKES, BALLS, AND PUDDING	DO	777	193	129	1,280	322	307	307	307
CAVIAR AND OTHER FISH ROE (MAY INCLUDE SOME NOT CANNED) *	DO	189	537	421	307	938	443	1,453	1,453
FISH PASTE AND SAUCE *	DO	106	56	33	170	89	172	172	96
UNCLASSIFIED FISH:	DO	-	-	-	-	-	-	-	-
IN OIL *	DO	469	241	83	613	324	390	224	224
NOT IN OIL *	DO	650	235	242	996	487	1,482	565	565
TOTAL, CANNED FISH *	DO	79,931	29,369	42,522	77,431	122,453	46,820	122,994	48,190
SHELLFISH, ETC.:	DO	-	-	-	-	-	-	-	-
ABALONE (MAY INCLUDE FRESH OR FRIED, AND CANNED PASTE AND SAUCE) *	DO	4,237	2,297	2,641	1,365	6,878	3,662	6,487	3,468
CLAMS:	DO	60	34	-	-	-	-	-	-
RAZOR, *	DO	969	564	478	281	1,447	845	1,403	913
OTHER, JUICE, ETC. *	DO	-	5	37	24	24	24	3	1
CHOWDER, *	DO	3,206	3,902	2,090	2,468	5,296	6,370	4,550	3,358
CRAB MEAT (INCLUDES PASTE AND SAUCE) *	DO	1,877	3,576	485	955	2,362	4,331	2,817	6,631
LOBSTER MEAT:	DO	1,712	269	109	198	1,281	(2)	1,487	193
SPRAT, *	DO	(2)	1,304	4,298	1,463	8,463	3,101	3,004	2,638
SHRIMP, *	DO	4,165	1,388	-	-	-	-	-	2,676
OYSTERS AND OYSTER JUICE	DO	-	-	-	-	-	-	-	7,369

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

# GENERAL REVIEW

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## IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1963-64 - Continued

ITEM	UNIT	1963			1964		
		FIRST 6 MONTHS QUANTITY	LAST 4 MONTHS QUANTITY	1,000 DOLLARS	TOTAL 1/ QUANTITY	1,000 DOLLARS	TOTAL 1/ QUANTITY
<b>CANNED FISHERY PRODUCTS - CONTINUED</b>							
SCALLOP, ETC. - CONTINUED:							
SCALLOP, HAKE, POLLOCK, AND CUSK:	1,000 POUNDS	(2) 65	54	34	(2) 154	67	49
SCALLOP, PASTE AND SAUCE:	DO	2,759	724	429	3,773	11,153	4,060
UNCLASSIFIED:	DO		1,014				1,459
TOTAL CANNED SHELLFISH:	DO	17,510	12,661	12,543	8,414	30,053	21,275
TOTAL CANNED FISH, SHELLFISH, ETC. . . . .	DO	97,441	42,250	55,065	25,845	152,506	68,095
PICKLED OR SALTED:							
DRIED SHRIMP, ETC. . . . .	DO	(2)	(2)	88	62	(2)	404
DRIED (UNSALEABLE):	DO	62	33	1,028	534	1,090	1,021
COD, HADDOCK, HAKE, POLLOCK, AND CUSK . . . . .	DO	69	62	70	70	120	558
SALMON FINNS:	DO	86	78	67	48	153	107
UNCLASSIFIED:	DO						139
TOTAL DRIED (UNSALEABLE):	DO	217	173	1,234	714	1,451	987
ALEWIVES:	DO	1	(6)	-	-	(6)	(6)
COD, HADDOCK, HAKE, POLLOCK, AND CUSK:	DO	5,069	1,524	4,291	1,372	9,360	8,869
SKINNED OR BONED:	DO	20,315	5,244	13,155	2,470	33,601	31,469
HERRING:	DO	14,560	2,650	10,257	1,559	23,501	5,994
MACKEREL:	DO	932	145	1,257	2,146	2,157	3,980
SALMON:	DO	51	51	1	52	3	567
UNCLASSIFIED:	DO	252	132	123	96	375	257
TOTAL SKINNED OR BONED:	DO	41,247	7,413	29,601	5,668	70,848	13,081
SMOKED OR KIPPERED:							
COD, HADDOCK, HAKE, POLLOCK, AND CUSK:	DO	110	28	34	10	144	38
WHOLE, BEHEADED, OR EVISCERATED OR BOTH:	DO	680	264	411	117	1,291	381
FILLETS, STEAKS, ETC. . . . .	DO						30
HERRING:	DO						381
WHOLE OR BEHEADED:							
HARD DRY SMOKED:	DO	108	12	44	6	152	18
BONED:	DO	486	70	607	89	1,093	159
OTHER:	DO	375	90	{ 687	146	1,330	109
NOT BONED [EVISCERATED, SPLIT]:	DO	288	{ 56	{ 2	{ 2	292	712
MACKEREL:	DO	(2)	63	20	1	111	115
SALMON:	DO	63	94	9	27	83	170
UNCLASSIFIED:	DO	68	17	5	5	77	135
TOTAL SMOKED OR KIPPERED:	DO	2,378	621	1,794	401	4,172	1,022
TOTAL CURED:	DO	43,842	8,207	32,629	6,793	76,471	14,990
OTHER FISH AND SHELLFISH, NOT ESPECIALLY PROVIDED FOR	DO	2,425	734	2,633	753	5,278	1,487
TOTAL EDIBLE FISHERY PRODUCTS:	DO	776,871	7256,357	7435,106	7141,571	71,196,977	7399,928

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GENERAL REVIEW

## IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1963-64 - Continued

ITEM	UNIT	1963		1964	
		FIRST 8 MONTHS	LAST 4 MONTHS	1,000 DOLLARS QUANTITY	1,000 DOLLARS QUANTITY
<b>OILS, FISH AND MARINE ANIMAL:</b>					
INDUSTRIAL	1,000 GALLONS	594	290	118	712
COD, MEDICINAL (LIVER)	DO	671	590	(3) 23	343
HALIBUT LIVER	DO	2	100	(3) 8	870
HERRING, SHARKS, INCLUDING GRAYFISH;	DO	285		(3) 296	(3) 108
EEL*, WHALE*, SODA LIVER	DO		1	(3) 3	(3) 1
WHALE*, SPERM, CRUDE	DO		4	(3) 36	(3) 10
OTHER UNCLASSIFIED; BODY, LIVER	DO	-	27	(3) 11	(3) 3
TOTAL FISH AND MARINE ANIMAL OIL,	DO				
MEAL AND SCRAPS;	1,000 TONS				
ANIMAL FEED, FERTILIZER,	DO	252	255	113	10,791
DO	10	1,163	1	60	8,160
TOTAL MEAL AND SCRAPS,	DO	262	26,418	114	10,621
COD LIVER OIL, CAKE AND MEAL:	1,000 POUNDS	495	39	(3) 7	376
FISH SOUPLES	1,000 TONS	3	233	(3) 261	37,039
FISH LIVERS FOR DRUGS	1,000 POUNDS	17	31	(3) 6	(3) 494
GLUE	DO			(3) 20	(3) 51
ISINGLASS	DO	916	100	(3) 25	(3) 25
MOTHER-OF-PEARL	DO	14	10	(3) 12	(3) 15
PEARL ESSENCE	DO	20	91	(3) 16	(3) 36
AQUARIUM FISH [INCLUDING GOLD FISH]	DO		344	(3) 25	(3) 22
FISH (OTHER THAN FOR HUMAN CONSUMPTION)	-		2/2, 131	(3) 21	(3) 19
CUTTLEFISH BONE, SHELLS AND BUTTONS;	1,000 POUNDS	188	77	2/1, 131	153
MOTHER-OF-PEARL AND TROCHUS SHELL,	DO			(3) 33	(3) 40
OTHER SHELLS AND SHELLS, SHELL AND MOTHER-OF-PEARL, ORNAMENTED OCEAN AND FRESH-WATER PEARL AND SHELL BUTTONS AND BLANKS	DO	375	167	(3) 141	175
PEARLS, CULTURED, NATURAL	DO	2,018	(3) 161	(3) 141	565
PEARLS, CULTURED, NATURAL	DO	(2)	284	(3) 2	(3) 12
AMBERGRIS	-		7/428	7/363	610
TOTAL PEARLS,	-			-	7/611
SEE FOOTNOTES AT END OF TABLE.		-	16	-	-
(CONTINUED ON NEXT PAGE)					28

## GENERAL REVIEW

IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1963-64 - Continued

# GENERAL REVIEW

## U. S. IMPORTS OF EDIBLE FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF ORIGIN, 1964

CONTINENT AND COUNTRY OF ORIGIN	THOUSAND POUNDS	PERCENT	CONTINENT AND COUNTRY OF ORIGIN	THOUSAND POUNDS	PERCENT
NORTH AMERICA:			ASIA:		
CANADA . . . . .	459,269	34.84	JAPAN . . . . .	307,939	23.36
MEXICO . . . . .	93,207	7.07	INDIA . . . . .	10,948	.83
TRINIDAD . . . . .	19,015	1.44	MALAYSIA . . . . .	8,680	.66
PANAMA . . . . .	12,459	.95	TAIWAN . . . . .	5,925	.45
GREENLAND . . . . .	7,327	.55	KUWAIT . . . . .	5,358	.40
EL SALVADOR . . . . .	6,298	.48	PAKISTAN . . . . .	4,924	.37
COSTA RICA . . . . .	3,158	.24	OTHER . . . . .	8,012	.61
OTHER . . . . .	13,316	1.03	TOTAL . . . . .	351,786	26.68
TOTAL . . . . .	614,251	46.60			
SOUTH AMERICA:			AUSTRALIA AND OCEANIA:		
PERU . . . . .	31,428	2.39	AUSTRALIA . . . . .	12,171	.92
ECUADOR . . . . .	18,165	1.38	BRITISH WESTERN PACIFIC ISLANDS . . . . .	4,556	.35
VENEZUELA . . . . .	8,086	.62	OTHER . . . . .	6,362	.48
BRITISH GUIANA . . . . .	5,513	.42	TOTAL . . . . .	23,089	1.75
OTHER . . . . .	11,255	.86			
TOTAL . . . . .	74,447	5.67			
EUROPE:			AFRICA:		
ICELAND . . . . .	66,875	5.07	REPUBLIC OF SOUTH AFRICA . . . . .	37,770	2.86
IRELAND . . . . .	44,119	3.35	SIERRA LEONE . . . . .	11,638	.88
SPAIN . . . . .	19,918	1.51	IVORY COAST . . . . .	11,337	.86
PORTUGAL . . . . .	11,046	.84	CANARY ISLANDS . . . . .	9,965	.76
DENMARK . . . . .	10,508	.80	OTHER . . . . .	6,576	.50
WEST GERMANY . . . . .	7,959	.60	TOTAL . . . . .	77,286	5.86
UNITED KINGDOM . . . . .	5,776	.44			
FRANCE . . . . .	4,804	.36	GRAND TOTAL . . . . .	1,318,099	100.00
OTHER . . . . .	6,235	.47			
TOTAL . . . . .	177,240	13.44			

SOURCE:--DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS.

## VALUE OF U. S. IMPORTS OF EDIBLE FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF ORIGIN, 1964

CONTINENT AND COUNTRY OF ORIGIN	THOUSAND DOLLARS	PERCENT	CONTINENT AND COUNTRY OF ORIGIN	THOUSAND DOLLARS	PERCENT
NORTH AMERICA:			ASIA:		
CANADA . . . . .	123,504	28.48	JAPAN . . . . .	78,657	18.14
MEXICO . . . . .	60,691	13.99	INDIA . . . . .	6,208	1.43
PANAMA . . . . .	8,586	1.98	KUWAIT . . . . .	3,539	.81
EL SALVADOR . . . . .	3,920	.90	OTHER . . . . .	10,526	2.43
OTHER . . . . .	13,514	3.12	TOTAL . . . . .	98,940	22.81
TOTAL . . . . .	210,215	48.47			
SOUTH AMERICA:			AUSTRALIA AND OCEANIA:		
ECUADOR . . . . .	6,336	1.46	AUSTRALIA . . . . .	12,268	2.83
VENEZUELA . . . . .	4,516	1.04	NEW ZEALAND . . . . .	4,098	.94
BRITISH GUIANA . . . . .	4,023	.93	OTHER . . . . .	1,289	.30
PERU . . . . .	3,980	.92	TOTAL . . . . .	17,645	4.07
OTHER . . . . .	9,108	2.10			
TOTAL . . . . .	27,963	6.45			
EUROPE:			AFRICA:		
ICELAND . . . . .	16,407	3.78	REPUBLIC OF SOUTH AFRICA . . . . .	20,847	4.81
MICRO. . . . .	13,741	3.17	OTHER . . . . .	6,211	1.43
PORTUGAL . . . . .	5,647	1.35	TOTAL . . . . .	27,058	6.24
SPAIN . . . . .	5,977	1.27			
DENMARK . . . . .	5,777	.87	GRAND TOTAL . . . . .	433,674	100.00
OTHER . . . . .	5,564	.52			
TOTAL . . . . .	51,853	11.96			

SOURCE:--DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS.

# GENERAL REVIEW

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## U. S. EXPORTS OF EDIBLE FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1964

CONTINENT AND COUNTRY OF DESTINATION	THOUSAND POUNDS	PERCENT	CONTINENT AND COUNTRY OF DESTINATION	THOUSAND POUNDS	PERCENT
NORTH AMERICA:			ASIA:		
CANADA . . . . .	16,545	17.44	JAPAN . . . . .	22,347	23.57
EL SALVADOR . . . . .	1,677	1.77	PHILIPPINES . . . . .	7,485	7.89
DOMINICAN REPUBLIC . . . . .	947	1.00	HONG KONG . . . . .	1,102	1.16
JAMAICA . . . . .	870	.92	OTHER . . . . .	1,092	1.15
NICARAGUA . . . . .	589	.62	TOTAL . . . . .	32,026	33.77
NETHERLAND ANTILLES . . . . .	464	.49			
OTHER . . . . .	2,099	2.21			
TOTAL . . . . .	23,191	24.45			
SOUTH AMERICA:			AUSTRALIA AND OCEANIA:		
VENEZUELA . . . . .	303	.32	NEW ZEALAND . . . . .	1,050	1.11
ECUADOR . . . . .	214	.23	AUSTRALIA . . . . .	982	1.03
OTHER . . . . .	266	.28	OTHER . . . . .	739	.78
TOTAL . . . . .	783	.83	TOTAL . . . . .	2,771	2.92
EUROPE:			AFRICA:		
UNITED KINGDOM . . . . .	19,235	20.28	LIBERIA . . . . .	125	.13
GREECE . . . . .	4,666	4.92	REPUBLIC OF SOUTH AFRICA . . . . .	118	.13
FRANCE . . . . .	3,464	3.65	OTHER . . . . .	315	.33
NETHERLANDS . . . . .	3,191	3.37	TOTAL . . . . .	558	.59
BELGIUM . . . . .	2,091	2.21			
DENMARK . . . . .	665	.70			
SWEDEN . . . . .	543	.57			
WEST GERMANY . . . . .	538	.57			
OTHER . . . . .	1,113	1.17			
TOTAL . . . . .	35,506	37.44	GRAND TOTAL . . . . .	94,835	100.00

SOURCE:--DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS.

## VALUE OF U. S. EXPORTS OF FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1964

CONTINENT AND COUNTRY OF DESTINATION	THOUSAND DOLLARS	PERCENT	CONTINENT AND COUNTRY OF DESTINATION	THOUSAND DOLLARS	PERCENT
NORTH AMERICA:			ASIA:		
CANADA . . . . .	10,433	16.25	JAPAN . . . . .	9,200	14.33
MEXICO . . . . .	417	.55	PHILIPPINES . . . . .	1,043	1.62
EL SALVADOR . . . . .	357	.56	HONG KONG . . . . .	603	.94
OTHER . . . . .	1,801	2.60	OTHER . . . . .	748	1.17
TOTAL . . . . .	13,008	20.26	TOTAL . . . . .	11,594	18.06
SOUTH AMERICA:			AUSTRALIA AND OCEANIA:		
VENEZUELA . . . . .	239	.37	AUSTRALIA . . . . .	427	.67
OTHER . . . . .	216	.34	NEW ZEALAND . . . . .	150	.23
TOTAL . . . . .	455	.71	OTHER . . . . .	168	.26
EUROPE:			TOTAL . . . . .	745	1.16
UNITED KINGDOM . . . . .	15,102	23.52	AFRICA:		
SWEDEN . . . . .	6,425	10.01	REPUBLIC OF SOUTH AFRICA . . . . .	117	.18
NETHERLANDS . . . . .	4,879	7.60	ZAMBIA . . . . .	70	.11
WEST GERMANY . . . . .	3,146	4.90	OTHER . . . . .	163	.25
FRANCE . . . . .	2,325	3.62	TOTAL . . . . .	350	.54
SWITZERLAND . . . . .	1,293	2.00			
ITALY . . . . .	1,116	1.74			
NORWAY . . . . .	1,054	1.66			
DENMARK . . . . .	1,052	1.64			
OTHER . . . . .	1,660	2.58			
TOTAL . . . . .	38,052	59.27	GRAND TOTAL . . . . .	64,204	100.00

SOURCE:--DEPARTMENT OF COMMERCE, BUREAU OF THE CENSUS.

## SECTION 2 - NEW ENGLAND FISHERIES

The commercial fisheries of the New England States, (Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut) in 1964 yielded 681.9 million pounds of fish and shellfish worth \$67.6 million to the fishermen. This was a decline from 1963 of 147.0 million pounds (18 percent) and \$693,000 (1 percent). The principal species contributing to the lower volume were sea herring, unclassified species for industrial purposes, ocean perch, tuna, and sea scallops. There was a large increase in the catch of haddock, with minor increases in whiting, yellowtail flounder, lobsters, and shrimp. The average price of fish increased 13.7 percent, while shellfish average prices jumped 21.0 percent, offsetting, to a considerable extent, the effect of decreased production.

Landings in the New England States, except New Hampshire, were down from 1963. Massachusetts led with 66 percent, followed by Maine, 28 percent; and Rhode Island, 5 percent. Connecticut and New Hampshire made up the remaining 1 percent. The percentage breakdown by value was Massachusetts, 59; Maine, 32; Rhode Island, 6; Connecticut, 2; and New Hampshire, 1 percent.

Fishermen and vessels. In 1964, New England had 20,194 fishermen using 721 vessels of 5 net tons or greater and 10,593 other craft. This was a decline of 1,234 fishermen, 12 vessels, and 153 other craft compared with 1963.

Vessel construction. Among the new vessels added to the New England fleet in 1964 was another stern trawler, the 64-foot-long Canyon Prince, built at the same yard that constructed the highly successful Narragansett. Two other vessels, the Chilmark Sword and the Chilmark Voyager joined the fleet as longliners but can be converted to stern trawling when required. A total of eight new vessels entered the fishery in 1964, all with New Bedford as home port.

In August, Congress passed Public Law 88-498, a fishing vessel construction subsidy law to replace the earlier and more restrictive Public Law 86-516 which expired in June 1963. The new law, The U. S. Fishing Fleet Improvement Act, authorizes an annual sum of \$10 million for a period of 5 years to be made available for the construction of vessels of advanced design, capable of fishing in expanded areas, equipped with newly developed gear and scheduled for operation where such use will not cause economic hardship to other fishermen operating in that particular fishery. Up to 50 percent of the cost of the new vessel may be subsidized under the law. The earlier subsidy act limited assistance to a maximum of 33-1/3 percent and under the restrictions imposed by the act, the only fishery qualified for assistance was the New England groundfish industry. Regulations covering the new act were issued in the closing days of 1964, so no New England vessels were constructed under this program during the year.

Losses to the fleet were heavy in 1964 and included seven vessels from New Bedford, eight from Gloucester, two from Portland, one from Boston, and one from Point Judith. Six men lost their lives as a result of two sinkings.

Weather. The 1964 weather pattern could best be described as near normal although January and February were severe, and the loss of fishing time during these months was greater than usual because of gale-force winds. Especially affected were vessels of the New Bedford scallop and yellowtail fleets. A warning of a hurricane, which failed to materialize, also interrupted fishing temporarily. Losses of lobster pots and other inshore fishing gear were nominal.

Labor. No serious labor-management disagreements troubled shore installations of the New England fishing industry in 1964. Fishing was interrupted, however, by minor localized disputes and by contract negotiations at some of the ports, the most prolonged of which was at Rockland. The trend toward longer term contracts continued in 1964. Three-year agreements

were reached in Gloucester between two major fish processors and the shoreworkers' union, and also between management and the stevedores. The new contracts were generally more rewarding than usual to employees and reflected the relative prosperity of this branch of the fishing industry. In New Bedford, Boston, and Rockland, fishermen and vessel owners reached new agreements. In all instances the principal gain was in fringe benefits.

Legislation. In June, the Governor of Massachusetts signed a bill transferring responsibility for the inspection of landings of commercial fish from the Department of Natural Resources to the State Department of Public Health.

Groundfish. Landings of the six groundfish species--cod, cusk, haddock, white hake, pollock, and ocean perch--were 283.0 million pounds in 1964 valued at \$19.2 million. The catches of cusk, haddock, and white hake improved over the previous year, whereas the other species declined. An 8-percent increase in haddock landings to 133.5 million pounds was more than offset by the 18-percent drop in the ocean perch catch to 89.3 million.

Imports of groundfish fillets, including blocks and slabs, were 246.6 million pounds in 1964--a new record and 6 percent above the 1963 imports. The available supply of groundfish fillets and blocks in the United States was 321.7 million pounds in 1964, only 23 percent of which was domestically produced.

Haddock. Haddock led in both volume and value among the fishes landed at New England ports in 1964. Landings increased 8 percent to 133.4 million pounds; the value of the catch, \$11.8 million, was 1 percent above that of 1963. Boston continued to be the dominant haddock port with 65 percent of the catch. Gloucester ranked second with 20 percent, up from 16 percent in 1963; followed by New Bedford, with 10 percent. Gloucester vessels, many of which formerly fished ocean perch, continue to contribute heavily to the supply of groundfish, principally haddock landed at the port of Boston. Gloucester received a larger share than usual of the haddock and mixed groundfish (other than ocean perch) landings, which enter both the fresh and frozen fish market.

Ocean perch. The New England ocean perch fishery continued to decline. The landings of only 89.3 million pounds were down 18 percent from the 108.3 million pounds taken in 1963 and were the lowest since 1940. Contrary to expectations, the average price per pound also declined--4.23 cents compared with 4.75 cents in 1963. The dimension of the ocean perch catch decline in recent years can best be pointed out by noting that the total New England landings for 1964 were almost exactly half the record 1951 Gloucester landings of 177.7 million pounds. Sixty-six percent of the 1964 production was landed at Maine ports compared with 59 percent in 1963.

Lower average prices and the failure of imports to compensate for the decline in domestic production (imports were up 6 percent to 22.9 million pounds) appear to indicate that the consumer market for ocean perch fillets in the raw state is declining. Some domestic perch have been made into blocks or slabs for the stick and portion industry, but cod and haddock continue to be preferred.

Whiting. Landings of whiting in 1964 were 87.7 million pounds--1 percent above the 1963 landings, but nevertheless a great disappointment to a large segment of the industry. The 25.3 million pounds landed at Maine ports were 59 percent above 1963 and established a new record for that State. In Massachusetts, however, landings declined 13 percent from 1963 to 58.1 million pounds and were the lowest since 1950. Fishermen and processors generally felt that the continued large-scale whiting fishery of the Russian fleet on the offshore banks has affected the productivity of some of the whiting grounds. Little or no change occurred in the methods of catching, handling, or processing whiting in 1964. No further attempts were made to form cooperative organizations for the marketing or processing of these fish.

## NEW ENGLAND FISHERIES

Herring. Landings of sea herring in Maine during 1964 declined severely to 60.9 million pounds. This is 60 percent below the 152.3 million landed in 1963 and continues the pattern of wide fluctuations in supply that has plagued this industry. Imports of sea herring from Canada increased to 97.3 million pounds from 45.5 million in 1963. Twenty-three canneries processed 866,000 standard cases of Maine sardines compared with 27 packers and a production of 1.6 million cases in 1963. In 1964, imports of canned sardines, including sea herring, increased 7 percent to 53.7 million pounds.

As a result of a court ruling, Maine sardine packers may now extend their season. A court decision found that the existing law making it illegal to pack sardines except during the period from April 15 to December 1, carried no specific prohibition against packing imported sea herring during the closed season.

Tuna. Landings of tuna, both bluefin and skipjack, were only 3.3 million pounds in 1964, most of which came into New Bedford. The catch in 1963 was 8.8 million pounds. Large tuna seiners were deterred from landing at New England ports by the additional costs of handling, storage, and transportation required before the tuna could reach canneries, which are generally located outside New England. One tuna seiner landed more than 200,000 pounds of mackerel, which is believed to have been the largest trip of fresh mackerel ever landed on the Atlantic coast. Most of the record catch was sold for fish meal and oil because the foodfish market was unable to absorb such a large quantity.

Swordfish. The relatively new swordfish longline fishery proved a disappointment in 1964, failing to live up to the promise indicated in 1963. New England landings by longliners were only 1.2 million pounds, which was 64 percent of the 1963 catch. Incidental catches of tunas and sharks were also less. Several vessels, principally out of New Bedford, made short-lived attempts at the fishery, with discouraging results. The active vessels in the fleet landed much of their catches at ports in the Middle Atlantic States, which were closer to the more productive fishing grounds. The longline fishery takes all sizes of swordfish, which average considerably less than those taken in the harpoon fishery. Swordfish under 100 pounds are known as pups and bring a much lower price. While no data are available on the population structure of the swordfish catch, landings record show that an increasing percentage consists of small fish.

Industrial fish. The production of fish for manufacture into meal and oil was far less than in 1963. Landings of unclassified species of industrial fish were 27.9 million pounds in 1964 compared with 58.2 million in 1963. This 52-percent drop was almost entirely due to closing of the industrial plant at Point Judith, R. I. Although the fleet continued to fish out of that port, its catches were placed aboard carrier vessels and transported to ports outside New England. In addition to the unclassified species, 4.0 million pounds of alewives were caught by purse seiners for industrial use and landed at Gloucester. This was a 63-percent drop from the 10.9 million pounds landed in 1963. For the second year, no menhaden were taken by purse seiners north of Cape Cod.

Yellowtail flounder. Landings of yellowtail flounders increased once again in 1964 to establish a record for the fourth consecutive year. The catch of 79.3 million pounds valued at \$5.4 million was up 2 percent in volume and 6 percent in value from 1963. The 65.8 million pounds of yellowtails landed at New Bedford represented 48 percent of that port's total landings of fish and shellfish. Improved and enlarged fillet processing facilities at New Bedford have eliminated the gluts of raw fish, which had occurred in previous years.

Lobsters. The lobster supply continues to fall behind the demand, which is spreading to overseas markets. The 1964 landings of 29.3 million pounds were less than 1 percent above the 1963 total, but the value climbed to a record \$19.0 million or 17 percent above the \$16.2 million received the previous year. Maine landings were 21.4 million pounds, followed by

# NEW ENGLAND FISHERIES

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Massachusetts, 5.5 million; and Rhode Island, New Hampshire, and Connecticut, with less than 1 million pounds each.

Otter trawling for lobsters continued to grow in importance. Several large trawlers, some formerly in the ocean perch fleet, joined the lobster dragging fleet late in 1964 and were generally successful. Landings of lobsters by otter trawlers in New England in 1964 were 9 percent of the total compared with 7 percent in 1963. The feeling that there was need for research on the offshore lobster fishery has prompted several groups to urge that a program of study be undertaken.

Sea scallops. Landings of sea scallop meats declined 18 percent to 14.5 million pounds compared with 17.8 million pounds in 1963. The total value of \$8.0 million, however, was only 4 percent under that of the previous year. In December, one trip of sea scallop meats landed at New Bedford sold for 80 cents a pound--an alltime record price. New Bedford remained the center of the domestic sea scallop industry and had landings of 12.9 million pounds. In spite of the increasing value of sea scallop meats, the New Bedford scallop fleet had only 35 vessels at the close of the year. The scarcity of scallops on Georges Bank and the profit in fishing for yellowtail flounders and groundfish contributed to the decrease in scallopers. Imports of sea scallops in 1964 increased for the ninth straight year and were 16.2 million pounds, 21 percent above 1963.

Shrimp. Nearly 1 million pounds of northern shrimp valued at 12 cents a pound were landed in Maine--an increase of 72 percent in volume over the previous year and a record. This fishery provides a welcome financial lift to Maine fishermen during January, February, and March, the time of year when additional income is most needed. A shrimp peeling machine was in operation in Maine for the first time in 1964.

Processed fishery products. The total value of fishery products manufactured in the New England States in 1964 was \$118.1 million--down \$3.7 million from 1963. The decline resulted from reduced production of ocean perch fillets and canned sardines.

New Bureau facilities. The Marine Products Development Irradiator located in Gloucester, Mass., was formally dedicated by the Bureau in September. A facility in the Atomic Energy Commission's long-range program of using isotopes for food preservation, the plant is adjacent to the Bureau's Technological Laboratory. Programs to determine the feasibility of irradiation for preserving seafoods were started during the year.

In December, ground was broken for a new shellfisheries center at Milford, Conn. The present laboratory at Milford is housed in one of the older facilities of the Bureau and has long been inadequate for the growing program in basic research on the ecology and physiology of marine invertebrates at that station. Completion of the new laboratory will be in 1966.

Harbor and plant development. A \$1.2-million dredging project was started in Gloucester Harbor in 1964. The long-awaited project will deepen the inner harbor to a mean low-water depth of 20 feet, thus allowing larger ocean-going cargo vessels to use the port's docking facilities. It will also remove several ledges that have been a navigational hazard.

Facilities for handling fish and shellfish at New Bedford were improved during the year. Work continued on the city's hurricane protection dike, which is expected to cost over \$16 million when it is completed in 1965. The New Bedford Maritime Terminal continued to grow. The terminal initially covered 19 acres and featured a 1,500-foot-long bulk-head for mooring vessels. More area was acquired in 1964, and a 20-million-pound cold storage plant was built on the site. The terminal already houses a pet food manufacturing plant and a fish stick-portion processor. Additional processors and fish handlers are expected to locate in the area.

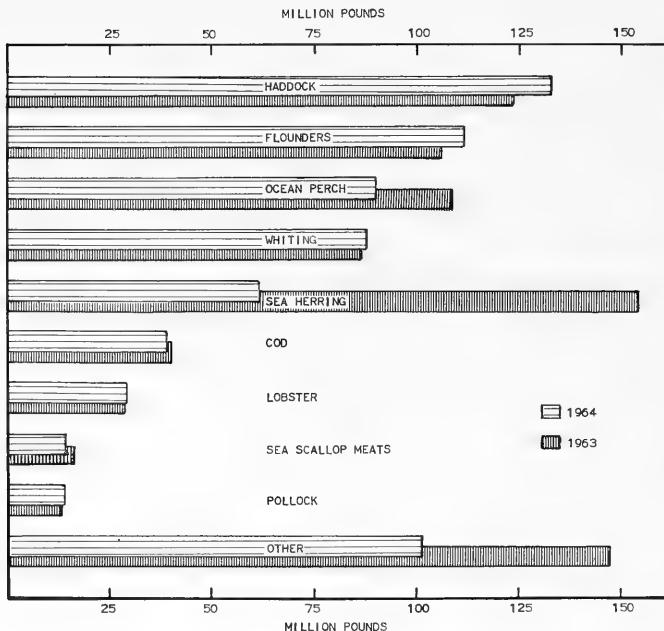
# NEW ENGLAND FISHERIES

Urban Renewal programs along both the Gloucester and Boston water-fronts began in 1964, but there was no major dislocation of fish processing plants. These programs may bring several changes in the next 2 or 3 years, however, along Boston's Atlantic Avenue section where many fish processing plants are located and also on the Gloucester waterfront.

Other information. The following tables contain summarized and detailed information on the 1964 operating units and landings of fish and shellfish in the New England States. Condensed summary data on the operating units and landings by States of the New England area, appearing on the following pages, have been previously published in Current Fishery Statistics No. 3919. Additional data on many aspects of the New England fisheries may be found in Maine, Massachusetts, and Rhode Island monthly and annual landing bulletins released by the Branch of Fishery Statistics and in daily, monthly, and annual reports published by the Bureau's Fishery Market News Office, Commonwealth Pier, Boston, Mass.

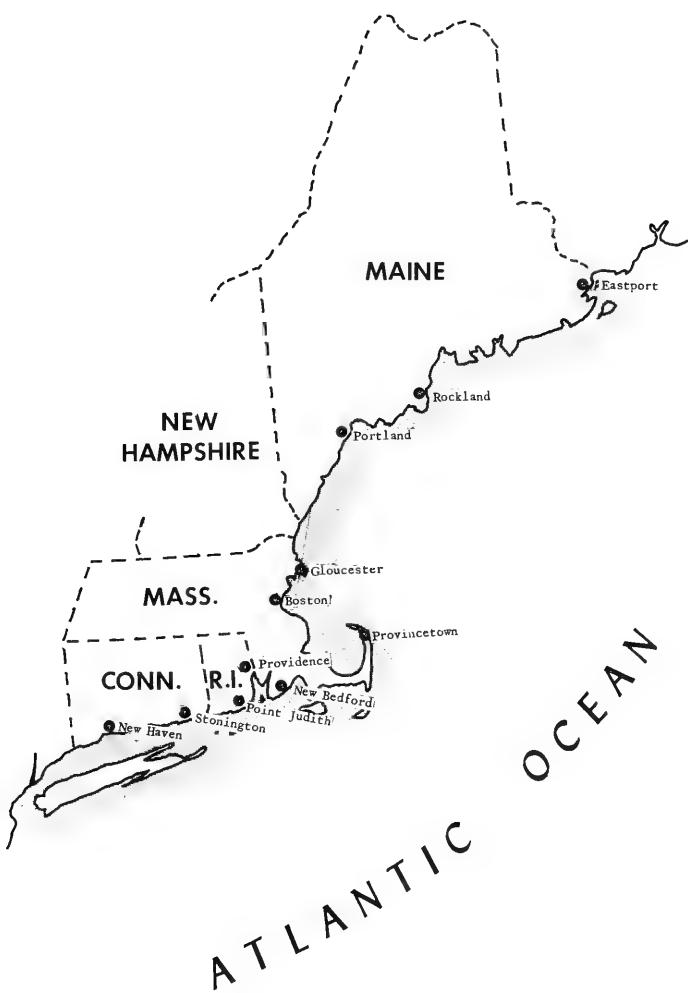
Acknowledgments. The following organizations assisted in collecting the data appearing in this section: Maine Department of Sea and Shore Fisheries; New Hampshire Fish and Game Department; Massachusetts Department of Natural Resources, Division of Marine Fisheries; Rhode Island Department of Agriculture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

## NEW ENGLAND CATCH OF CERTAIN SPECIES, 1964 AND 1963



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# NEW ENGLAND FISHERIES

## SECTIONAL SUMMARIES

### SUMMARY OF CATCH, 1964

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

STATE	FISH		SHELLFISH, ETC.		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
MAINE . . . . .	162	5	31	17	193	22
NEW HAMPSHIRE . . . . .	(1)	(1)	1	1	1	1
MASSACHUSETTS . . . . .	422	27	24	13	446	40
RHODE ISLAND . . . . .	33	2	4	2	37	4
CONNECTICUT . . . . .	4	(1)	1	1	5	1
TOTAL . . . . .	621	34	61	34	682	68

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

### SUMMARY OF OPERATING UNITS, 1964

ITEM	MAINE	NEW HAMPSHIRE	MASSA-CHUSETTS	RHODE ISLAND	CONNECT-I-CUT	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
FISHERMEN:						
ON VESSELS, . . . . .	535	-	3,296	390	142	4,058
ON BOATS AND SHORE:						
REGULAR . . . . .	4,104	100	883	465	47	5,599
CASUAL . . . . .	3,928	302	5,166	815	326	10,537
TOTAL . . . . .	8,567	402	9,347	1,670	515	20,194
VESSELS, MOTOR . . . . .	140	-	489	102	51	721
GROSS TONNAGE . . . . .	8,496	-	38,086	3,274	1,611	47,084
BOATS:						
MOTOR . . . . .	5,445	179	3,171	1,091	242	10,128
OTHER . . . . .	266	5	133	38	23	465
GEAR:						
HAUL SEINES, COMMON . . . . .	-	-	7	4	9	20
LENGTH, YARDS . . . . .	-	-	420	500	471	1,391
STOP SEINES . . . . .	123	-	-	-	-	123
LENGTH, YARDS . . . . .	55,050	-	-	-	-	55,050
PURSE SEINES:						
HERRING . . . . .	6	-	-	-	-	6
LENGTH, YARDS . . . . .	2,200	-	-	-	-	2,200
MACKEREL . . . . .	8	-	-	-	-	11
LENGTH, YARDS . . . . .	3,300	-	-	500	-	3,800
TUNA . . . . .	-	-	8	-	-	8
LENGTH, YARDS . . . . .	-	-	5,800	-	-	5,800
OTHER . . . . .	-	-	3	-	-	3
LENGTH, YARDS . . . . .	-	-	1,625	-	-	1,625
BAG NETS . . . . .	10	5	-	-	-	15
OTTER TRAWLS:						
FISH . . . . .	113	-	405	70	54	593
YARDS AT MOUTH . . . . .	2,467	10,875	1,744	937	14,774	
LOBSTER . . . . .	-	-	24	9	5	36
YARDS AT MOUTH . . . . .	-	-	680	246	159	1,034
SHRIMP . . . . .	28	-	-	-	-	28
YARDS AT MOUTH . . . . .	560	-	-	-	-	560
WEIRS . . . . .	68	7	-	-	-	75
POUND NETS, FISH . . . . .	-	-	49	1	-	50
FLOATING TRAPS . . . . .	12	-	13	19	-	44
FENDER HOOP NETS, FISH . . . . .	-	-	-	-	5	5
POTS AND TRAPS:						
CONCH . . . . .	-	-	135	375	429	939
CRAB . . . . .	835	150	40	877	-	1,902
EEL . . . . .	-	-	175	390	445	1,010
LOBSTER . . . . .	754,190	17,000	106,624	7,008	9,631	894,653
BOX TRAPS . . . . .	5	-	-	-	-	5
GILL NETS:						
ANCHOR, SET OR STAKE . . . . .	8	-	14	1	8	30
SQUARE YARDS . . . . .	40,920	-	79,000	100	1,467	109,487
DRIFT:						
SAID . . . . .	-	-	-	-	46	46
SQUARE YARDS . . . . .	-	-	-	-	100,954	100,954
OTHER . . . . .	-	1	26	-	10	37
SQUARE YARDS . . . . .	-	3,000	250,820	-	2,953	256,773
LINES:						
HAND . . . . .	325	340	1,982	194	41	2,882
HOOKS . . . . .	331	740	2,226	361	64	3,722
TROLL . . . . .	-	-	15	27	-	42
HOOKS . . . . .	-	-	15	27	-	42
LONG OR SET WITH HOOKS . . . . .	82	6	77	6	-	171
HOOKS . . . . .	321,000	10,000	203,000	4,200	-	539,200
DIP NETS, COMMON . . . . .	83	-	250	-	44	367

(CONTINUED ON NEXT PAGE)

# NEW ENGLAND FISHERIES

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## SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	MAINE	NEW HAMPSHIRE	MASSA-	ROHDE	CONNECT-	TOTAL,
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	EXCLUSIVE OF DUPLICATION
GEAR - CONTINUED						
HARPOONS:						
SWORDFISH . . . . .	-	-	29	6	3	36
OTHER . . . . .	19	2	9	-	-	30
SPEARS . . . . .	-	-	11	1	-	12
DREDGES:						
CLAM . . . . .	-	-	40	31	7	78
YARDS AT MOUTH . . . . .	-	-	37	31	7	75
MUSSEL . . . . .	-	-	2	1	-	3
YARDS AT MOUTH . . . . .	-	-	2	2	-	4
OYSTER, COMMON . . . . .	4	-	20	-	17	41
YARDS AT MOUTH . . . . .	4	-	16	-	23	43
SCALLOP . . . . .	39	-	1,294	18	-	1,345
YARDS AT MOUTH . . . . .	63	-	1,303	16	-	1,363
TONGS:						
OYSTER . . . . .	-	-	12	20	8	40
OTHER . . . . .	-	-	160	676	13	1,069
RAKES:						
OYSTER . . . . .	-	-	2	-	-	2
OTHER . . . . .	214	-	1,304	218	-	1,736
HOES . . . . .	2,437	34	596	65	1	3,133
FORKS . . . . .	-	-	22	-	-	22
DIVING OUTFITS . . . . .	2	-	81	-	-	83

## CATCH BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	MAINE		NEW HAMPSHIRE		MASSACHUSETTS	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FISH						
ALEWIVES . . . . .	1,480	24	75	1	5,529	63
ANGLERISH . . . . .	-	-	-	-	30	1
BILLFISH . . . . .	-	-	-	-	(1)	(1)
BLUEFISH . . . . .	-	-	-	-	42	7
BONITO . . . . .	-	-	-	-	14	2
BUTTERFISH . . . . .	6	1	-	-	69	11
COD . . . . .	2,400	107	60	4	34,802	2,363
CUSK . . . . .	371	18	12	1	1,936	99
EELS:						
COMMON . . . . .	23	5	5	1	16	5
CONGER . . . . .	-	-	-	-	1	(1)
FLOUNDERS:						
BLACKBACK . . . . .	75	4	-	-	13,901	1,324
DAB . . . . .	573	26	-	-	5,531	377
FLUKE . . . . .	-	-	-	-	154	449
GRAY SOLE . . . . .	498	40	-	-	2,607	317
LEMON SOLE . . . . .	2	{1}	-	-	2,084	427
YELLOWTAIL . . . . .	5	(1)	-	-	70,974	4,879
TOTAL FLOUNDERS . . . . .	1,153	70	-	-	96,781	7,773
HADDOCK . . . . .	2,948	260	55	6	130,373	11,568
HAKE:						
RED . . . . .	-	-	-	-	2,876	33
WHITE . . . . .	3,554	129	1	(1)	3,251	177
HALIBUT . . . . .	77	25	2	1	228	73
HEMING, SEA.	60,866	1,275	-	-	2,051	38
LAMPREY . . . . .	-	-	-	-	186	12
MACKEREL . . . . .	488	18	2	(1)	3,208	206
MENHADEN . . . . .	-	-	-	-	2	(1)
OCEAN PERCH . . . . .	58,936	2,500	-	-	30,332	1,281
OCEAN POUT . . . . .	-	-	-	-	2,453	33
POLLOCK . . . . .	1,312	44	8	1	11,954	613
SALMON . . . . .	1	{1}	-	-	-	-
SCUP OR PORGY . . . . .	-	-	-	-	490	37
SEA BASS . . . . .	-	-	-	-	10	2
SHAD . . . . .	-	-	-	-	39	3
SHARKS:						
GRAYFISH . . . . .	188	1	-	-	-	(1)
UNCLASSIFIED . . . . .	(1)	(1)	-	-	11	(1)
TOTAL SHARKS . . . . .	188	1	-	-	11	(1)

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# NEW ENGLAND FISHERIES

## CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	MAINE		NEW HAMPSHIRE		MASSACHUSETTS	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
<b>FISH - CONTINUED</b>						
SKATES . . . . .	-	-	-	-	62	2
SMELT . . . . .	185	41	68	27	-	-
STRIPED BASS . . . . .	-	-	-	-	522	78
STURGEON . . . . .	(1)	(1)	-	-	4	(1)
SWORDFISH . . . . .	241	84	-	-	1,149	326
TAUTOG . . . . .	-	-	-	-	10	(1)
TILEFISH . . . . .	-	-	-	-	226	19
TUNA:						
BLUEFIN . . . . .	51	4	8	1	2,082	145
SKIPJACK . . . . .	-	-	-	-	1,154	84
TOTAL TUNA . . . . .	51	4	8	1	3,236	229
WHITE PERCH . . . . .	-	-	-	-	25	3
WHITING . . . . .	25,304	373	-	-	58,067	1,263
WOLFGHISH . . . . .	26	1	-	-	801	37
UNCLASSIFIED:						
FOR FOOD . . . . .	(1)	(1)	-	-	6,690	414
BAIT, REDUCTION, AND						
ANIMAL FOOD . . . . .	1,735	13	-	-	24,529	250
TOTAL FISH . . . . .	161,345	4,993	296	43	422,007	27,041
<b>CRABS; SHELLFISH, ETC.</b>						
CRABS:						
GREEN . . . . .	-	-	38	3	21	2
ROCK . . . . .	1,964	82	10	(1)	50	12
TOTAL CRABS . . . . .	1,964	82	48	3	71	14
LOBSTERS, NORTHERN . . . . .	21,413	14,182	850	544	5,488	3,316
SHRIMP . . . . .	925	112	-	-	7	1
CLAMS:						
HARD:						
PUBLIC . . . . .	2	2	-	-	1,425	999
PRIVATE . . . . .	-	-	-	-	15	13
RAZOR . . . . .	-	-	-	-	9	4
SOFT, PUBLIC . . . . .	1,798	627	-	-	801	533
SURF. . . . .	-	-	-	-	13	3
TOTAL CLAMS . . . . .	1,800	829	-	-	2,263	1,552
CONCHS . . . . .	-	-	-	-	32	5
MUSSELS, SEA. . . . .	15	1	-	-	179	16
OYSTERS, MARKET;						
PUBLIC:						
SPRING. . . . .	2	1	-	-	11	15
FALL. . . . .	-	-	-	-	12	14
PRIVATE:						
SPRING. . . . .	-	-	-	-	15	20
FALL. . . . .	-	-	-	-	18	27
TOTAL OYSTERS . . . . .	2	1	-	-	56	76
PERIWINKLES AND COCKLES . . . . .	48	13	-	-	-	-
SCALLOPS:						
BAY . . . . .	-	-	-	-	439	557
SEA . . . . .	917	502	-	-	13,612	7,450
SCORPION FISH . . . . .	-	-	-	-	236	12
SEA URCHINS . . . . .	121	3	-	-	-	-
IRISH MOSS . . . . .	2,495	44	-	-	2,000	35
BLOODWORMS . . . . .	758	745	2	2	58	57
SANDWORMS . . . . .	772	451	13	9	45	52
TOTAL SHELLFISH, ETC. . . . .	31,230	16,965	913	558	24,488	13,143
GRAND TOTAL . . . . .	192,575	21,956	1,209	601	446,495	40,184

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# NEW ENGLAND FISHERIES

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## CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	RHODE ISLAND		CONNECTICUT		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FISH						
ALEWIVES . . . . .	140	2	15	(1)	7,239	90
ANCHOVIES . . . . .	74	2	-	-	74	2
ANGLERFISH . . . . .	14	(1)	-	-	44	1
BILFLFISH . . . . .	-	-	-	-	(1)	(1)
BLUEFISH . . . . .	90	13	60	9	192	29
BONITO . . . . .	24	4	-	-	36	6
BUTTERFISH . . . . .	2,671	242	123	12	2,869	266
CARP . . . . .	-	-	3	1	3	1
CATFISH AND BULLHEADS	-	-	1	(1)	1	(1)
COOKFISH . . . . .	444	35	147	12	37,853	2,541
CUSK . . . . .	-	-	-	-	2,319	118
EELS:						
COMMON . . . . .	31	8	18	4	95	23
CONGER . . . . .	33	1	-	-	34	1
FLOUNDERS:						
BLACKBACK . . . . .	4,080	216	957	52	19,013	1,596
DAB . . . . .	4	(1)	(1)	(1)	6,106	403
FLUKE . . . . .	676	217	36	44	2,198	710
GRAY SOLE . . . . .	52	4	4	(1)	3,471	361
LEMON SOLE . . . . .	15	3	4	1	2,105	431
YELLOWTAIL . . . . .	8,249	471	49	3	79,277	5,353
TOTAL FLOUNDERS . . . . .	13,088	911	1,150	100	112,172	8,854
HADDOCK . . . . .	68	5	6	(1)	133,450	11,839
HAKE:						
RED . . . . .	161	3	27	1	3,064	37
WHITE . . . . .	51	2	-	-	6,857	308
HALIBUT . . . . .	-	-	-	-	307	99
HERRING, SEA . . . . .	259	10	26	1	63,202	1,324
KING WHITING OR "KINGFISH" . . . . .	(1)	(1)	-	-	(1)	(1)
LANICE . . . . .	-	-	-	-	186	12
MACKEREL . . . . .	194	24	6	1	3,898	249
MENHADEN . . . . .	-	-	4	(1)	6	(1)
MULLET, BLACK . . . . .	1	(1)	-	-	1	(1)
OCEAN PERCH . . . . .	-	-	-	-	89,268	3,781
OCEAN POUT . . . . .	731	11	-	-	3,184	44
POLLOCK . . . . .	8	(1)	1	(1)	13,263	658
SALMON . . . . .	-	-	-	-	1	(1)
SCUP OR PORGY . . . . .	8,673	528	722	82	9,885	647
SEA BASS . . . . .	151	31	28	5	189	38
SEA ROBIN . . . . .	88	1	7	(1)	95	1
SEA TROUT OR WEAKFISH, GRAY . . . . .	1	(1)	(1)	(1)	1	(1)
SHAD . . . . .	3	{1}	278	58	320	61
SHARKS:						
GRAYFISH . . . . .	1	{1}	10	{1}	199	1
UNCLASSIFIED . . . . .	2	{1}	(1)	{1}	13	(1)
TOTAL SHARKS . . . . .	3	{1}	10	{1}	212	1
SKATES . . . . .	(1)	14	7	(1)	83	3
SMELT . . . . .	(1)	1	4	2	257	70
STRIPED BASS . . . . .	75	12	35	5	632	95
STURGEON . . . . .	4	(1)	11	1	19	1
SUCKERS . . . . .	-	-	1	{1}	1	(1)
SWORDFISH . . . . .	65	21	1	{1}	1,456	431
TAUTOG . . . . .	62	3	12	1	84	4
TILEFISH . . . . .	935	57	1	(1)	1,162	76
TUNA:						
BLUEFIN . . . . .	39	2	(1)	(1)	2,180	152
SKIPJACK . . . . .	-	-	-	-	1,154	84
TOTAL TUNA . . . . .	39	2	(1)	(1)	3,334	236
WHITE PERCH . . . . .	19	3	-	-	44	6
WHITING . . . . .	3,905	104	396	10	87,672	1,750
WOLFFISH . . . . .	-	-	-	-	627	38
UNCLASSIFIED:						
FOR FOOD . . . . .	6	1	(1)	(1)	6,696	415
BAIT, REDUCTION, AND						
ANIMAL FOOD . . . . .	1,235	12	400	5	27,899	280
TOTAL FISH . . . . .	33,360	2,049	3,500	310	620,508	34,436

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# NEW ENGLAND FISHERIES

## CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	RHODE ISLAND		CONNECTICUT		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
SHELLFISH, ETC.						
CRABS:						
BLUE, HARD . . . . .	-	-	(1)	(1)	(1)	(1)
GREEN . . . . .	4	(1)	-	-	63	5
ROCK . . . . .	208	24	-	-	2,232	118
TOTAL CRABS . . . . .	212	24	(1)	(1)	2,295	123
LOBSTERS, NORTHERN . . . . .	996	599	571	379	29,318	19,020
SHRIMP . . . . .	-	-	-	-	932	113
CLAMS:						
HARD:						
PUBLIC . . . . .	1,627	956	5	2	3,259	1,959
PRIVATE . . . . .	-	-	326	136	341	149
OCEAN QUAHOG . . . . .	113	11	-	-	113	11
RAZOR . . . . .	-	-	-	-	9	4
SOFT, PUBLIC . . . . .	64	29	(1)	(1)	2,663	1,389
SURF. . . . .	-	-	-	-	13	3
TOTAL CLAMS . . . . .	2,004	996	331	138	6,398	3,515
CONCHS . . . . .	47	10	68	12	147	27
MUSSELS, SEA . . . . .	(1)	(1)	-	-	194	17
OYSTERS, MARKET:						
PUBLIC:						
SPRING . . . . .	5	5	-	-	18	21
FALL . . . . .	8	8	1	1	21	23
PRIVATE:						
SPRING . . . . .	-	-	46	84	61	104
FALL . . . . .	-	-	77	151	95	178
TOTAL OYSTERS . . . . .	13	13	124	236	195	326
PERIWINKLES AND COCKLES . . . . .	-	-	-	-	48	13
SCALLOPS:						
BAY . . . . .	2	3	25	35	466	595
SEA . . . . .	7	3	-	-	14,536	7,955
SQUID . . . . .	267	43	31	3	556	58
SEA URCHINS . . . . .	-	-	-	-	121	3
IRISH MOSS . . . . .	-	-	-	-	4,495	79
BLOODWORMS . . . . .	-	-	-	-	818	604
SANDWORMS . . . . .	-	-	-	-	630	512
TOTAL SHELLFISH, ETC . . . . .	3,568	1,691	1,150	803	61,349	33,160
GRAND TOTAL . . . . .	36,928	3,740	4,650	1,113	681,857	67,596

1/ LESS THAN 500 POUNDS OR \$500.

NOTE:—STATISTICS ON THE CATCH ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. CLAMS, CONCHS, MUSSELS, OYSTERS, AND PERIWINKLES AND COCKLES ARE REPORTED IN WEIGHT OF TOTAL MEATS. SCALLOPS ARE REPORTED IN WEIGHT OF EDIBLE MEATS.



DIP NET

# NEW ENGLAND FISHERIES

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## CATCH OF CERTAIN SHELLFISH, 1964

(NUMBER AND BUSHELS)

SPECIES		MAINE		NEW HAMPSHIRE		MASSACHUSETTS	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRABS:							
GREEN . . . . .	NUMBER	"	"	549,736	\$3,200	302,948	\$1,708
ROCK . . . . .	DO	5,891,229	\$82,345	30,000	300	150,900	11,231
CLAMS:							
HARD:	U. S. STANDARD						
PUBLIC . . . . .	BUSHELS	209	1,764	-	-	129,582	99,067
PRIVATE . . . . .	DO	-	-	-	-	1,382	12,519
RAZOR . . . . .	DO	-	-	-	-	569	3,900
SOFT, PUBLIC . . . . .	DO	119,876	826,784	-	-	61,631	533,131
SURF. . . . .	DO	-	-	-	-	1,191	2,778
CONCHS. . . . .	DO	-	-	-	-	2,127	4,648
MUSSELS, SEA . . . . .	DO	1,027	1,024	-	-	17,650	16,250
OYSTERS, MARKET:							
PUBLIC:							
SPRING . . . . .	DO	199	1,201	-	-	1,615	14,706
FALL . . . . .	DO	-	-	-	-	1,892	14,216
PRIVATE:							
SPRING . . . . .	DO	-	-	-	-	2,308	20,600
FALL . . . . .	DO	-	-	-	-	2,818	26,737
PERIWINKLES AND							
COCKLES. . . . .	DO	2,672	12,686	-	-	-	-
SCALLOPS:							
BAY . . . . .	DO	-	-	-	-	73,233	556,717
SEA . . . . .	DO	152,815	501,752	-	-	2,268,533	7,450,189

SPECIES		RHODE ISLAND		CONNECTICUT		TOTAL	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRABS:							
BLUE, HARD . . . . .	NUMBER	-	-	240	\$30	240	\$30
GREEN . . . . .	DO	49,644	\$450	-	-	901,328	5,358
ROCK . . . . .	DO	624,300	24,114	-	-	6,696,429	117,990
CLAMS:							
HARD:	U. S. STANDARD						
PUBLIC . . . . .	BUSHELS	152,267	956,233	450	2,198	282,508	1,959,262
PRIVATE . . . . .	DO	-	-	27,192	136,000	28,574	148,519
OCEAN QUAHOG . . . . .	DO	11,260	11,263	-	-	11,260	11,263
RAZOR . . . . .	DO	-	-	-	-	569	3,900
SOFT, PUBLIC . . . . .	DO	4,900	29,347	23	200	186,430	1,389,462
SURF. . . . .	DO	-	-	-	-	1,191	2,778
CONCHS. . . . .	DO	3,147	10,410	4,560	12,019	9,834	27,077
MUSSELS, SEA . . . . .	DO	30	52	-	-	18,907	17,326
OYSTERS, MARKET:							
PUBLIC:							
SPRING . . . . .	DO	700	5,135	-	-	2,514	21,042
FALL . . . . .	DO	1,143	7,982	104	905	3,139	23,103
PRIVATE:							
SPRING . . . . .	DO	-	-	5,935	83,734	8,243	104,334
FALL . . . . .	DO	-	-	10,039	150,962	12,857	177,699
PERIWINKLES AND							
COCKLES. . . . .	DO	-	-	-	-	2,672	12,886
SCALLOPS:							
BAY . . . . .	DO	300	2,736	4,000	35,216	77,533	594,669
SEA . . . . .	DO	1,100	3,485	-	-	2,422,548	7,955,426

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

## AVERAGE WEIGHTS OF CERTAIN SHELLFISH, 1964

SPECIES		MAINE	NEW HAMPSHIRE	MASSACHUSETTS	ROHDE 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:	LBS. OF MEATS PER U. S. STANDARD BUSHEL	11.00	-	11.00	12,00	12,00
PUBLIC . . . . .	STANDARD BUSHEL	-	-	11,00	-	12,00
PRIVATE . . . . .	DO	-	-	-	10,00	-
OCEAN QUAHOG . . . . .	DO	-	-	16.00	-	13,00
RAZOR . . . . .	DO	15.00	-	13.00	15.00	15.00
SOFT, PUBLIC . . . . .	DO	-	-	11.00	-	-
SURF. . . . .	DO	-	-	15.00	15.00	15.00
CONCHS. . . . .	DO	-	-	10.00	10.00	-
MUSSELS, SEA . . . . .	DO	15.00	-	10.00	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING . . . . .	DO	7.50	-	6.50	7.00	-
FALL . . . . .	DO	-	-	6.50	7.00	7.70
PRIVATE:						
SPRING . . . . .	DO	-	-	6.50	-	7.70
FALL . . . . .	DO	-	-	6.53	-	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 FISHERIES

## MANUFACTURED FISHERY PRODUCTS, 1964

ITEM	MAINE		NEW HAMPSHIRE	
	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES:				
FILLETS, SALTED . . . . .	POUNDS	(1) 4,866	(1)	-
SMOKED . . . . .	DO	\$487	-	-
COD:				
FILLETS, FRESH AND FROZEN . . . . .	DO	179,965	48,855	-
SALTED (WHOLE, FILLETS AND STRIPS) . . . . .	DO	(1) 6,450	(1) 2,406	-
SMOKED . . . . .	DO	-	-	-
DRIED . . . . .	DO	(1)	(1)	-
CUSK:				
FILLETS, FRESH AND FROZEN . . . . .	DO	77,360	24,640	-
SALTED . . . . .	DO	(1)	(1)	-
FLOUNDER FILLETS, FRESH AND FROZEN . . . . .	DO	20,268	7,565	-
HADDOCK:				
FILLETS, FRESH AND FROZEN . . . . .	DO	750,862	292,659	-
CANNED SPECIALTIES (CREAMED) . . . . .	STANDARD CASES	(1)	(1)	-
SMOKED . . . . .	POUNDS	(1)	(1)	-
HAKE:				
FILLETS, FRESH AND FROZEN . . . . .	DO	177,197	52,700	-
SALTED . . . . .	DO	(1)	(1)	-
HALIBUT STEAKS, FROZEN . . . . .	DO	(1)	(1)	-
HERRING, SEA:				
CANNED:				
SARDINES . . . . .	STANDARD CASES	865,751	7,583,621	-
SPECIALTIES (SNACKS, TIDBITS, ETC.) . . . . .	DO	8,100	100,741	-
SMOKED . . . . .	POUNDS	(1)	(1)	-
MILK AND SCRAP . . . . .	TONS	5,245	605,122	-
OIL . . . . .	1,000 POUNDS	2,461	203,355	-
MACKEREL, CANNED . . . . .	STANDARD CASES	(1)	(1)	-
OCEAN PERCH FILLETS:				
FRESH AND FROZEN . . . . .	POUNDS	15,435,639	4,080,349	-
BREADED AND COOKED . . . . .	DO	(1)	(1)	-
POLLOCK:				
FILLETS, FRESH AND FROZEN . . . . .	DO	383,503	68,229	-
SALTED (WHOLE, FILLETS AND STRIPS) . . . . .	DO	(1)	(1)	-
SMOKED . . . . .	DO	(1)	(1)	-
DRIED . . . . .	DO	(1)	(1)	-
SALMON, CANNED, SPECIALTIES (SPREADS) . . . . .	STANDARD CASES	(1)	(1)	-
TUNA, CANNED:				
REGULAR . . . . .	DO	(1)	(1)	-
SPECIALTIES (SPREADS) . . . . .	DO	(1)	(1)	-
WHITEFISH FILLETS, FRESH AND FROZEN, WOLFFISH FILLETS, FRESH AND FROZEN CRABS:				
COOKED MEAT, FRESH . . . . .	DO	144,012	168,816	-
COOKED . . . . .	DO	(1)	(1)	-
REGULAR . . . . .	STANDARD CASES	(1)	(1)	-
SPECIALTIES (DIPS AND SPREADS) . . . . .	DO	(1)	(1)	-
LOBSTERS, NORTHERN FRESH AND FROZEN:				
COOKED MEAT . . . . .	POUNDS	261,021	894,122	47,300
WHOLE . . . . .	DO	(1)	(1)	-
SPECIALTIES (DINNERS, PIES, STEWS, ETC.) . . . . .	DO	(1)	(1)	-
CANNED:				
REGULAR . . . . .	STANDARD CASES	(1)	(1)	-
SPECIALTIES (DIPS, NEWBURGS, SPREADS, ETC.) . . . . .	DO	(1)	(1)	-
SHRIMP:				
RAW HEADLESS, FRESH . . . . .	POUNDS	25,616	18,883	-
COOKED, PEELED, FRESH . . . . .	DO	29,000	26,600	-
SPECIALTIES:				
FROZEN (CROQUETTES, DINNERS, AND IN SAUCES) . . . . .	DO	(1)	(1)	-
CANNED (DIPS) . . . . .	STANDARD CASES	(1)	(1)	-
CLAMS:				
SOFT, FRESH AND FROZEN, SHUCKED, CANED:	GALLONS	93,586	645,006	71,004
WHOLE AND MINCED . . . . .	STANDARD CASES	7,954	139,277	-
CHOWDER AND JUICE . . . . .	DO	567,194	3,718,177	-
SPECIALTIES (CRISPS, STEWS, ALA KING, ETC.) . . . . .	DO	(1)	(1)	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# NEW ENGLAND FISHERIES

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## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM	MAINE		NEW HAMPSHIRE	
	QUANTITY	VALUE	QUANTITY	VALUE
SCALLOPS, SPECIALTIES, FROZEN (DINNERS, ETC.) . . . . .	POUNDS	(1)	(1)	-
UNCLASSIFIED:				
FRESH AND FROZEN, PACKAGED:				
FISH, PORTIONS, RAW:				
NOT BREADED . . . . .	DO	{1}	{1}	-
BREADED . . . . .	DO	{1}	{1}	-
FISH AND SHELLFISH . . . . .	STANDARD CASES	3,284,697	\$1,930,406	-
CANNED . . . . .	POUNDS	196,120	2,171,163	-
CURED . . . . .		399,675	69,392	-
INDUSTRIAL . . . . .		-	5,229,450	-
TOTAL . . . . .	-	-	28,201,434	\$653,412
ITEM	MASSACHUSETTS		RHODE ISLAND AND CONNECTICUT	
	QUANTITY	VALUE	QUANTITY	VALUE
CHUBS, SMOKED . . . . .	POUNDS	(1)	(1)	-
COD:				
FILLETS:				
FRESH AND FROZEN . . . . .	DO	5,137,508	\$1,687,331	-
BREADED AND COOKED . . . . .	DO	{1}	{1}	-
STEAKS, FRESH . . . . .	DO	400,000	68,000	-
CANNED, SPECIALTIES (CAKES, ETC.) . . . . .	STANDARD CASES	(1)	(1)	-
SALTED (WHOLE, FILLETS AND STRIPS) . . . . .	POUNDS	{1}	{1}	-
SMOKED . . . . .	DO	{1}	{1}	-
CUSK FILLETS, FRESH AND FROZEN . . .	DO	248,424	73,495	-
FLounder:				
FILLETS:				
FRESH AND FROZEN . . . . .	DO	30,479,298	9,774,995	2,196,093
BREADED AND COOKED . . . . .	DO	1,775,520	753,758	\$704,081
SPECIALTIES, FROZEN (BREADED IN SAUCES AND DINNERS) . . . . .	DO	-	-	-
Haddock:				
FILLETS:				
FRESH AND FROZEN . . . . .	DO	35,534,153	12,908,933	-
BREADED AND COOKED . . . . .	DO	547,402	258,658	-
SPECIALTIES, FROZEN (DINNERS). . . . .	DO	780,702	449,169	-
SMOKED . . . . .	DO	{1}	{1}	-
HAKE FILLETS, FRESH AND FROZEN . . .	DO	54,174	13,964	-
HALIBUT, FROZEN:				
STEAKS . . . . .	DO	621,310	263,243	-
SPECIALTIES (AU GRATIN) . . . . .	DO	{1}	{1}	-
Herring, Sea:				
STEAKS . . . . .	DO	{1}	{1}	-
SMOKED . . . . .	DO	40,570	22,015	-
Mackerel:				
FILLETS, FRESH AND FROZEN . . . . .	DO	24,475	7,111	-
SMOKED . . . . .	DO	{1}	{1}	-
OCEAN PERCH FILLETS:				
FRESH AND FROZEN . . . . .	DO	8,378,864	2,243,826	-
BREADED AND COOKED . . . . .	DO	{1}	{1}	-
POLLOCK:				
FILLETS, FRESH AND FROZEN . . . . .	DO	2,913,686	650,628	-
SALTLED (WHOLE, FILLETS AND STRIPS) . . . . .	DO	{1}	{1}	-
SMOKED . . . . .	DO	{1}	{1}	-
SABLEFISH, SMOKED . . . . .	DO	{1}	{1}	-
Salmon:				
STEAKS, FROZEN . . . . .	DO	57,490	43,330	-
SMOKED . . . . .	DO	{1}	{1}	-
Shad FILLETS, FRESH (BONED) . . . . .	DO	{1}	{1}	23,836
Smelt, Cooked, FROZEN . . . . .	DO	{1}	{1}	35,754
Swordfish, FROZEN:				
STEAKS . . . . .	DO	252,290	114,236	-
SPECIALTIES (DINNERS) . . . . .	DO	{1}	{1}	-
Whiting FILLETS, FRESH AND FROZEN . . .	DO	1,642,854	379,729	-
Wolfish FILLETS, FRESH AND FROZEN . . .	DO	101,545	31,463	-
Crabs, Cooked MEAT, FRESH . . . . .	DO	96,500	185,325	-
Lobsters, Northern:				
FRESH AND FROZEN, COOKED MEAT . . .	DO	642,591	2,317,763	75,387
CANNED:				
REGULAR . . . . .	STANDARD CASES	-	-	(1)
SPECIALTIES (DIPS, NEWBURGS, SPREADS, ETC.) . . . . .	DO	-	-	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# NEW ENGLAND FISHERIES

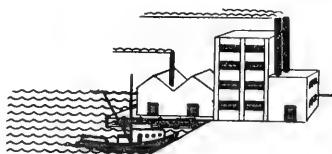
## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM	MASSACHUSETTS		RHODE ISLAND AND CONNECTICUT	
	QUANTITY	VALUE	QUANTITY	VALUE
SHRIMP:				
COOKED:				
PEELED AND DEVEINED, FRESH . . . . .	POUNDS	(1)	{1}	-
BREADED, FROZEN . . . . .	DO	(1)	{1}	-
SPECIALTIES, FROZEN (CROQUETTES, DINNERS, AND IN SAUCES) . . . . .	DO	2,290,452	\$1,624,167	-
CLAMS:				
FRESH AND FROZEN:				
SHUCKED:				
HARD AND SURF { INCLUDES OCEAN QUAHOOGS } . . . . .	GALLONS	127,985	365,244	320,782
SOFT . . . . .	DO	95,056	531,425	{1}
BREADED, RAW AND COOKED . . . . .	POUNDS	(1)	{1}	{1}
SPECIALTIES (CHOWDER BASE, STUFFED, ETC.) . . . . .	DO	236,174	292,622	(1)
CANNED:				
WHOLE AND MINCED . . . . .	STANDARD CASES	-	-	{1}
CHOWDER AND JUICE . . . . .	DO	(1)	(1)	{1}
ALA KING, ETC., . . . . .	DO	-	-	{1}
OYSTERS, SHUCKED FRESH . . . . .	GALLONS	-	-	{1}
SCALLOPS:				
FRESH AND FROZEN:				
BAY, SHUCKED, . . . . .	DO	50,200	572,280	6,492
SEA:				
SHUCKED . . . . .	POUNDS	4,832,894	2,977,815	-
BREADED . . . . .	DO	905,347	642,591	(1)
RAW . . . . .	DO	2,332,597	2,089,902	-
COOKED . . . . .	DO	620,029	589,422	-
SPECIALTIES (DINNERS, ETC.) . . . . .	DO			
UNCLASSIFIED:				
FRESH AND FROZEN, PACKAGED:				
FISH:				
PORTIONS:				
RAW:				
NOT BREADED . . . . .	DO	846,442	293,956	-
BREADED . . . . .	DO	27,481,234	9,607,076	-
BREADED AND COOKED . . . . .	DO	9,453,212	3,585,558	-
STICKS, BREADED:				
RAW . . . . .	DO	664,776	247,233	-
COOKED . . . . .	DO	33,189,914	14,018,944	-
CAKES, COOKED . . . . .	DO	989,547	349,561	-
FISH AND SHELLFISH:				
CANNED . . . . .	STANDARD CASES	5,862,802	4,331,483	61,161
CURED . . . . .	POUNDS	1,552,190	8,887,720	208,857
INDUSTRIAL . . . . .	-	1,539,436	1,107,235	33,493
TOTAL . . . . .	-	-	86,189,515	292,410
			-	3,019,267

1/ INCLUDED IN UNCLASSIFIED ITEMS.

2/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH.

NOTE:--SOME 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. CERTAIN ITEMS ARE SHOWN IN AN INTERMEDIATE AND ALSO IN A MORE ADVANCED STAGE OF PROCESSING.



# NEW ENGLAND FISHERIES

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## SUMMARY OF MANUFACTURED PRODUCTS, 1964

(VALUE IN THOUSAND DOLLARS)

ITEM		QUANTITY	VALUE
PACKAGED PRODUCTS, FRESH AND FROZEN:			
NOT BREADED:			
FISH . . . . .	1,000 POUNDS	109,543	\$35,148
SHELLFISH . . . . .	DO	13,676	11,943
BREADED:			
FISH . . . . .	DO	75,009	29,072
SHELLFISH . . . . .	DO	4,807	4,489
SPECIALTIES, FISH AND SHELLFISH (NOT BREADED AND BREADED) . . . . .	DO	7,029	5,792
CANNED:			
FISH . . . . .	1,000 STANDARD CASES	1,093	10,214
SHELLFISH . . . . .	DO	653	4,677
ANIMAL FOOD . . . . .	DO	1,485	8,003
CURED:			
SALTED (INCLUDING DRIED) . . . . .	1,000 POUNDS	700	244
SMOKED . . . . .	DO	1,291	977
INDUSTRIAL . . . . .	-		7,505
TOTAL . . . . .	-	-	118,064

## VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964

(THOUSANDS OF DOLLARS)

STATE	VALUE
MAINE . . . . .	28,202
NEW HAMPSHIRE . . . . .	653
MASSACHUSETTS . . . . .	86,190
RHODE ISLAND . . . . .	2,644
CONNECTICUT . . . . .	375
TOTAL . . . . .	118,064

## WHOLESALING AND MANUFACTURING, 1964

ITEM	MAINE	NEW HAMPSHIRE	MASSA-CHUSETTS	RHODE ISLAND	CONNECTI-CUT	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:						
ESTABLISHMENTS . . . . .	252	13	234	30	10	539
PERSONS ENGAGED:						
AVERAGE FOR SEASON . . . . .	5,215	102	6,118	328	79	11,842
AVERAGE FOR YEAR . . . . .	2,613	86	5,006	273	70	8,248



# NEW ENGLAND FISHERIES

## MAINE

### OPERATING UNITS BY GEAR, 1964

ITEM	STOP SEINES	PURSE SEINES		BAG NETS	OTTER TRAWLS	
		HERRING	MACKEREL		FISH	SHRIMP
		NUMBER	NUMBER		NUMBER	NUMBER
FISHERMEN:						
ON VESSELS . . . . .	84	17	-	-	332	-
ON BOATS AND SHORE:						
REGULAR . . . . .	172	6	10	3	46	28
CASUAL . . . . .	317	2	30	9	10	6
TOTAL. . . . .	573	25	40	12	368	34
VESSELS, MOTOR . . . . .	22	4	-	-	73	-
GROSS TONNAGE . . . . .	397	113	-	-	7,090	-
BOATS:						
MOTOR. . . . .	128	4	8	5	40	-
OTHER. . . . .	169	11	10	5	-	28
GEAR:						
NUMBER . . . . .	123	6	8	10	113	28
LENGTH, YARDS . . . . .	55,050	2,200	3,300	-	-	-
YARDS AT MOUTH . . . . .	-	-	-	-	2,467	560
ITEM	WEIRS	FLOATING TRAPS	POTS AND TRAPS			GILL NETS, ANCHOR, SET OR STAKE
			CRAB	LOBSTER	BOX TRAP	
			NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS . . . . .	-	-	-	36	-	9
ON BOATS AND SHORE:						
REGULAR . . . . .	75	8	2	3,071	3	1
CASUAL . . . . .	60	17	9	2,680	6	5
TOTAL. . . . .	135	25	11	5,767	9	15
VESSELS, MOTOR . . . . .	-	-	-	35	-	3
GROSS TONNAGE . . . . .	-	-	-	407	-	62
BOATS:						
MOTOR. . . . .	68	8	11	5,301	5	-
OTHER. . . . .	58	7	-	13	2	2
GEAR:						
NUMBER . . . . .	68	12	835	754,190	5	8
SQUARE YARDS . . . . .	-	-	-	-	-	40,920
ITEM	LINES		DIP NETS, COMMON	HARPOONS	DREDGES	
	HAND	LONG OR SET WITH HOOKS			OYSTER, COMMON	SCALLOP
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS . . . . .	6	11	-	2	-	57
ON BOATS AND SHORE:						
REGULAR . . . . .	56	103	6	18	-	36
CASUAL . . . . .	263	13	77	9	4	8
TOTAL. . . . .	325	127	83	29	4	101
VESSELS, MOTOR . . . . .	3	3	-	1	-	7
GROSS TONNAGE . . . . .	22	203	-	11	-	459
BOATS, MOTOR . . . . .	46	79	10	18	4	28
GEAR:						
NUMBER . . . . .	325	82	83	19	4	39
YARDS AT MOUTH . . . . .	-	-	-	-	4	63
HOOKS. . . . .	331	321,000	-	-	-	-
ITEM	RAKES	HOES	DIVING OUTFITS	BY HAND	TOTAL, EX- CLUSIVE OF DUPLICATION	
FISHERMEN:						
ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
ON BOATS AND SHORE:	-	-	-	-	-	
REGULAR . . . . .	-	1,340	-	-	46	
CASUAL . . . . .	214	1,097	2	39	4,104	
TOTAL. . . . .	214	2,437	2	65	3,928	
VESSELS, MOTOR . . . . .	-	-	-	-	140	
GROSS TONNAGE . . . . .	-	-	-	-	8,496	
BOATS:						
MOTOR. . . . .	135	-	-	-	5,445	
OTHER. . . . .	-	-	-	-	266	
GEAR, NUMBER . . . . .	214	2,437	2	-	-	

# NEW ENGLAND FISHERIES

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## MAINE - CATCH BY GEAR, 1964

SPECIES	STOP SEINES		PURSE SEINES			
			HERRING		MACKEREL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HERRING, SEA . . . . .	46,196,700	\$1,003,840	7,328,600	\$158,266	28,400	\$1,234
MACKEREL . . . . .	600	70	-	-	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	31,100	233	22,400	134	-	-
TOTAL . . . . .	48,230,600	1,004,143	7,351,000	158,400	28,400	1,234
SPECIES	BAG NETS		OTTER TRAWLS			
			FISH		SHRIMP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUTTERFISH . . . . .	-	-	200	\$50	-	-
COD . . . . .	-	-	1,361,500	63,203	-	-
CUSK . . . . .	-	-	292,200	13,951	-	-
FLOUNDERS:						
BLACKBACK	-	-	75,000	3,776	-	-
DAB	-	-	572,600	26,266	-	-
GRAY SOLE	-	-	496,800	40,008	-	-
LEMON SOLE	-	-	1,500	77	-	-
YELLOWTAIL	-	-	5,400	156	-	-
HADDOCK	-	-	2,675,800	237,698	-	-
HAKE, WHITE	-	-	721,100	31,235	-	-
HALIBUT	-	-	27,100	6,489	-	-
HERRING, SEA . . . . .	-	-	269,100	6,114	-	-
OCEAN PERCH	-	-	58,936,200	2,500,433	-	-
POLLOCK	-	-	883,000	25,856	-	-
SHARKS, GRAYFISH . . . . .	-	-	6,700	57	-	-
SMET	-	-	-	-	-	-
WHITING . . . . .	73,900	\$16,435	25,303,100	373,481	-	-
WOLFWISH . . . . .	-	-	25,400	861	-	-
UNCLASSIFIED:						
FOR FOOD	-	-	200	8	-	-
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	-	-	1,308,300	9,792	-	-
SHRIMP . . . . .	-	-	-	-	924,700	\$111,626
TOTAL . . . . .	73,900	16,435	92,963,200	3,341,511	924,700	111,626
SPECIES	WEIRS		FLOATING TRAPS		POTS AND TRAPS	
			CRAB			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUTTERFISH . . . . .	-	-	5,700	\$524	-	-
HERRING, SEA . . . . .	5,061,800	\$105,232	7,800	136	-	-
MACKEREL . . . . .	28,600	1,716	430,300	15,056	-	-
SALMON . . . . .	-	-	500	385	-	-
WHITING . . . . .	-	-	600	9	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	-	-	5,700	76	-	-
CRABS, ROCK . . . . .	-	-	-	-	1,963,700	\$92,345
TOTAL . . . . .	5,090,400	107,948	450,600	16,286	1,963,700	82,345
SPECIES	POTS AND TRAPS - CONTINUED				GILL NETS, ANCHOR, SET OR STAKE	
	LOBSTER		BOX TRAPS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
COD . . . . .	-	-	-	-	510,500	\$29,869
CUSK . . . . .	-	-	-	-	1,600	102
EELS, COMMON . . . . .	-	-	22,300	\$4,899	-	-
HADDOCK . . . . .	-	-	-	-	861,100	7,396
HAKE, WHITE . . . . .	-	-	-	-	160,600	9,919
HALIBUT . . . . .	-	-	-	-	300	110
POLLOCK . . . . .	-	-	-	-	311,500	15,452

(CONTINUED ON NEXT PAGE)

## NEW ENGLAND FISHERIES

## MAINE - CATCH BY GEAR, 1964 - Continued

SPECIES	POTS AND TRAPS - CONTINUED				GILL NETS, ANCHOR, SET OR STAKE	
	LOBSTER		BOX TRAPS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SHARKS:						
GRAYFISH.	-	-	-	-	161,000	\$1,044
UNCLASSIFIED.	-	-	-	-	200	11
SMELT.	-	-	-	-	13,800	2,625
STURGEON.	-	-	-	-	100	7
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	-	-	303,100	1,901
LOBSTERS, NORTHERN.	21,413,400	\$14,182,536	-	-	-	-
TOTAL . . . . .	21,413,400	14,182,536	22,300	\$4,899	1,549,200	68,436
SPECIES	LINES				DIP NETS, COMMON	
	HAND		LONG OR SET WITH HOOKS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES.	-	-	-	-	1,479,600	\$23,543
COD.	232,400	\$2,043	295,700	\$8,360	-	-
CUSK.	3,600	236	73,000	\$3,530	-	-
FELS, COMMON.	-	-	-	-	600	120
FLOUNDERS:						
DAB.	-	-	100	4	-	-
GRAY SOLE.	-	-	800	45	-	-
HADDOCK.	13,100	1,028	173,200	13,643	-	-
HAKE, WHITE.	17,200	795	2,655,300	87,459	-	-
HALIBUT.	3,900	1,459	45,500	14,864	-	-
POLLOCK.	78,000	1,763	39,800	887	-	-
SHADS:						
GRASSFISH.	-	-	17,900	115	-	-
UNCLASSIFIED.	200	9	-	-	-	-
SMELT.	88,900	20,284	-	-	8,200	1,751
SWORDFISH.	-	-	241,100	83,838	-	-
TUNA, BLUEFIN.	500	28	10,700	927	-	-
WHITING.	400	12	-	-	-	-
WOLFFISH.	200	10	200	4	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	50,300	328	13,900	279
SEA URCHINS . . . . .	-	-	-	-	120,900	3,377
TOTAL . . . . .	438,600	31,669	3,603,600	214,004	1,623,200	29,070
SPECIES	DREDGES					
	HARPOONS		OYSTER		SCALLOP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SWORDFISH.	40,100	\$2,766	-	-	-	-
OYSTERS, MARKET, PUBLIC,	-	-	300	\$247	-	-
SPRING.	-	-	-	-	916,900	\$501,752
SCALLOPS, SEA.	-	-	-	-	-	-
TOTAL . . . . .	40,100	2,766	300	247	916,900	501,752
SPECIES	RAKES		HOES		DIVING OUTFITS	BY HAND
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS:						
HARD, PUBLIC.	-	-	2,300	\$1,764	-	-
SOFT, SEA.	-	-	1,796,100	826,784	-	-
MUSSELS, SEA.	-	-	15,400	1,024	-	-
OYSTERS, MARKET, PUBLIC,	-	-	-	-	-	-
SPRING.	-	-	-	-	1,200	\$954
PERIWINKLES AND COCKLES	-	-	-	-	-	-
IRISH MOSS.	2,495,000	\$43,663	-	-	48,100	\$12,886
BLOODWORMS.	-	-	756,000	745,315	-	-
SANDWORMS.	-	-	772,400	450,544	-	-
TOTAL . . . . .	2,495,000	43,663	3,346,200	2,025,431	1,200	954
					48,100	12,886

# NEW ENGLAND FISHERIES

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## NEW HAMPSHIRE OPERATING UNITS BY GEAR, 1964

ITEM	BAG NETS	WEIRS	POTS AND TRAPS		GILL NETS, DRIFT
			CRAB	LOBSTER	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:					
REGULAR . . . . .	-	-	2	98	2
CASUAL . . . . .	5	7	2	136	-
TOTAL . . . . .	5	7	4	234	2
BOATS:					
MOTOR . . . . .	-	2	-	174	1
OTHER . . . . .	-	3	-	2	-
GEAR:					
NUMBER . . . . .	5	7	150	17,000	1
SQUARE YARDS . . . . .	-	-	-	-	3,000
LINES			HARPOONS	HOES	TOTAL, EX- CLUSIVELY OF DUPLI- CATION
ITEM	HAND	LONG OR SET WITH HOOKS			
FISHERMEN, ON BOATS AND SHORE:					
REGULAR . . . . .	10	12	4	-	100
CASUAL . . . . .	175	-	-	34	302
TOTAL . . . . .	185	12	4	34	402
BOATS:					
MOTOR . . . . .	5	6	2	-	179
OTHER . . . . .	-	-	-	-	5
GEAR:					
NUMBER . . . . .	340	6	2	34	-
HOOKS . . . . .	740	10,000	-	-	-

## NEW HAMPSHIRE - CATCH BY GEAR, 1964

SPECIES	BAG NETS		WEIRS		POTS AND TRAPS			
	POUNDS	VALUE	POUNDS	VALUE	CRAB		LOBSTER	
					POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	-	-	75,000	\$1,125	-	-	-	-
EELS, COMMON . . . . .	-	-	5,000	1,200	-	-	-	-
SMELT . . . . .	3,000	\$1,050	25,000	6,750	-	-	-	-
CRABS:								
GREEN . . . . .	-	-	-	-	38,400	\$3,200	-	-
ROCK . . . . .	-	-	-	-	-	-	10,000	\$300
LOBSTERS, NORTHERN . . . . .	-	-	-	-	-	-	650,000	544,000
TOTAL . . . . .	3,000	1,050	105,000	9,075	38,400	3,200	860,000	544,300
SPECIES	GILL NETS, DRIFT			LINES				
	POUNDS	VALUE	POUNDS	VALUE	HAND		LONG OR SET WITH HOOKS	
					POUNDS	VALUE	POUNDS	VALUE
COD . . . . .	-	-	40,000	\$2,600	20,000	\$1,400	-	-
CUSK . . . . .	-	-	-	-	12,000	600	-	-
HADDOCK . . . . .	-	-	-	-	55,000	6,050	-	-
HAKE, WHITE . . . . .	-	-	-	-	1,000	70	-	-
HALIBUT . . . . .	-	-	500	200	2,000	800	-	-
MACKEREL . . . . .	1,500	\$300	-	-	-	-	-	-
POLLOCK . . . . .	-	-	6,000	300	1,500	75	-	-
SMELT . . . . .	-	-	40,000	18,600	-	-	-	-
TUNA, BLUEFIN . . . . .	-	-	3,000	150	-	-	-	-
TOTAL . . . . .	1,500	300	89,500	22,250	91,500	8,995	-	-
SPECIES	HARPOONS				HOES			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
TUNA, BLUEFIN . . . . .	5,000	\$250	-	-	-	-	-	-
BLOODWORMS . . . . .	-	-	2,000	-	-	-	2,000	\$2,000
SANDWORMS . . . . .	-	-	13,000	-	-	-	13,000	9,100
TOTAL . . . . .	5,000	250	-	-	15,000	-	-	11,100

## NEW ENGLAND FISHERIES

## MASSACHUSETTS

## OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES		OTTER TRAWLS		POUND NETS, FISH	FLOATING TRAPS
		TUNA	OTHER	FISH	LOBSTER		
FISHERMEN:							
ON VESSELS . . . . .	-	89	39	2,477	164	12	5
ON BOATS AND SHORE:							
REGULAR . . . . .	3	-	-	4	-	51	17
CASUAL . . . . .	19	-	-	3	-	2	6
TOTAL . . . . .	22	89	39	2,484	164	65	28
VESSELS, MOTOR . . . . .	-	8	3	401	24	3	2
GROSS TONNAGE . . . . .	-	1,626	664	29,871	2,473	33	25
BOATS:							
MOTOR . . . . .	3	6	4	4	-	23	9
OTHER . . . . .	3	2	2	-	-	15	12
GEAR:							
NUMBER . . . . .	7	8	3	405	24	49	13
LENGTH, YARDS . . . . .	420	5,800	1,825	-	-	-	-
YARDS AT MOUTH . . . . .	-	-	-	10,875	660	-	-
ITEM	POTS AND TRAPS				GILL NETS		
	CONCH	CRAB	EEL	LOBSTER	ANCHOR, SET OR STAKE	DRIFT	
FISHERMEN:							
ON VESSELS . . . . .	-	-	-	-	-	15	5
ON BOATS AND SHORE:							
REGULAR . . . . .	1	-	2	1	434	12	24
CASUAL . . . . .	1	-	-	4	982	5	13
TOTAL . . . . .	2	2	-	5	1,416	32	42
VESSELS, MOTOR . . . . .	-	-	-	-	-	4	2
GROSS TONNAGE . . . . .	-	-	-	-	-	109	42
BOATS:							
MOTOR . . . . .	2	-	2	5	1,077	10	24
OTHER . . . . .	-	-	-	-	94	-	-
GEAR:							
NUMBER . . . . .	135	-	40	175	106,624	14	26
SQUARE YARDS . . . . .	-	-	-	-	-	79,000	250,820
ITEM	LINES			DIP NETS, COMMON		HARPOONS	
	HAND	TROLL	LONG OR SET WITH HOOKS	DIP NETS, COMMON		SWORDFISH	OTHER
FISHERMEN:							
ON VESSELS . . . . .	8	-	88	-	-	21	-
ON BOATS AND SHORE:							
REGULAR . . . . .	67	-	83	11	-	4	-
CASUAL . . . . .	1,767	15	29	249	57	-	16
TOTAL . . . . .	1,842	15	200	260	78	-	20
VESSELS, MOTOR . . . . .	3	-	20	-	-	5	-
GROSS TONNAGE . . . . .	72	-	935	-	-	157	-
BOATS:							
MOTOR . . . . .	376	6	57	250	24	1	9
OTHER . . . . .	-	-	-	-	-	-	-
GEAR:							
NUMBER . . . . .	1,982	15	77	260	29	-	9
HOOKS . . . . .	2,226	15	203,000	-	-	-	-
ITEM	SPEARS	DREDGES				TONGS	
		CLAM	MUSSEL	OYSTER, COMMON	SCALLOP	OYSTER	OTHER
FISHERMEN:							
ON VESSELS . . . . .	-	27	-	-	653	-	-
ON BOATS AND SHORE:							
REGULAR . . . . .	-	33	-	6	73	6	54
CASUAL . . . . .	11	31	4	23	679	6	126
TOTAL . . . . .	11	91	4	29	1,405	12	180
VESSELS, MOTOR . . . . .	-	9	-	-	62	-	-
GROSS TONNAGE . . . . .	-	177	-	-	5,788	-	-
BOATS, MOTOR . . . . .	3	31	2	17	409	12	180
GEAR:							
NUMBER . . . . .	11	40	2	20	1,294	12	180
YARDS AT MOUTH . . . . .	-	37	2	16	1,303	-	-

# NEW ENGLAND FISHERIES

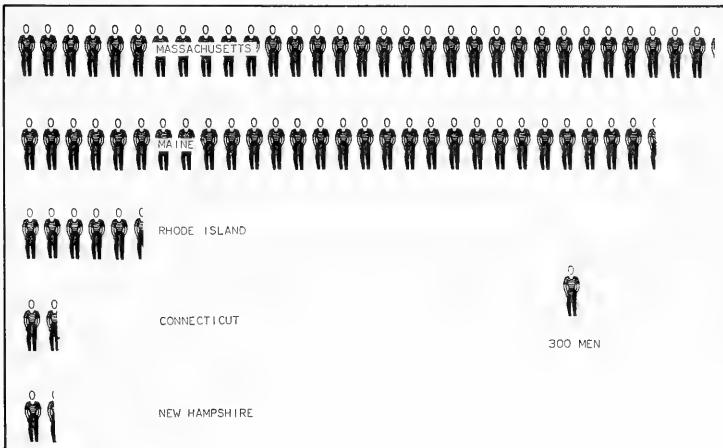
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## MASSACHUSETTS - OPERATING UNITS BY GEAR, 1964 - Continued

ITEM	RAKES		HOES	FORKS	DIVING OUTFITS	TOTAL, EXCLUSIVE OF DUPLI- CATION
	OYSTER	OTHER				
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS . . . . .	-	-	-	-	-	3,298
ON BOATS AND SHORE:						
REGULAR . . . . .	1	153	111	5	1	883
CASUAL . . . . .	1	1,151	485	17	80	5,166
TOTAL . . . . .	2	1,304	596	22	81	9,347
VESSELS, MOTOR . . . . .	-	-	-	-	-	489
GROSS TONNAGE . . . . .	-	-	-	-	-	38,086
BOATS:						
MOTOR . . . . .	-	1,112	5	-	11	3,171
OTHER . . . . .	-	1,304	596	22	4	133
GEAR, NUMBER . . . . .	2				81	-



## FISHERMEN EMPLOYED IN THE NEW ENGLAND FISHERIES, 1964



# NEW ENGLAND FISHERIES

## MASSACHUSETTS - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		PURSE SEINES			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	1,190,300	\$18,611	-	-	3,998,600	\$39,985
HERRING, SEA . . . . .	-	-	-	-	166,900	3,468
LANCE . . . . .	186,400	11,650	-	-	-	-
MACKEREL . . . . .	-	-	-	-	1,334,200	65,533
SHAD . . . . .	-	-	-	-	900	17
TUNA . . . . .	-	-	-	-	-	-
BLUEFIN . . . . .	-	-	1,574,400	\$113,503	-	-
SKIPJACK . . . . .	-	-	1,154,000	84,269	-	-
WHITE PERCH . . . . .	24,000	2,880	-	-	-	-
TOTAL . . . . .	1,400,700	33,141	2,728,400	197,772	5,500,600	109,023
SPECIES	OTTER TRAWLS				POUND NETS	
	FISH		LOBSTER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANGLERFISH . . . . .	29,800	\$883	-	-	-	-
BILLFISH . . . . .	-	-	-	-	300	\$12
BLUEFISH . . . . .	900	160	-	-	10,400	1,630
BONITO . . . . .	-	-	-	-	13,800	2,198
BUTTERFISH . . . . .	53,500	7,662	-	-	15,600	2,673
COD . . . . .	31,175,300	2,136,985	600	\$50	1,600	99
CUSK . . . . .	1,412,000	71,771	-	-	-	-
EELS; COMMON . . . . .	-	-	-	-	1,400	140
CONGER . . . . .	700	29	-	-	-	-
FLoundERS; BLACKBACK . . . . .	13,715,600	1,308,049	1,500	300	100	7
DAB . . . . .	5,517,600	378,149	-	-	-	-
FUKE . . . . .	1,369,100	442,231	10,500	3,150	1,600	367
GRAY SOLE . . . . .	2,902,700	317,057	-	-	-	-
LEMON SOLE . . . . .	2,064,900	424,484	-	-	-	-
YELLOWTAIL . . . . .	70,895,300	4,875,579	2,800	280	-	-
HADDOCK . . . . .	127,099,600	11,224,467	600	65	-	-
HAKE; RED . . . . .	2,675,200	32,774	-	-	400	4
WHITE . . . . .	3,141,000	171,691	-	-	-	-
HALIBUT . . . . .	162,000	42,643	-	-	-	-
HERRING, SEA . . . . .	109,200	3,481	-	-	1,714,000	30,243
MACKEREL . . . . .	1,600	312	-	-	1,053,200	68,030
MENHADEN . . . . .	-	-	-	-	2,100	35
OCEAN PERCH . . . . .	30,331,500	1,280,454	-	-	-	-
OCEAN POUT . . . . .	2,453,100	32,625	-	-	-	-
POLLOCK . . . . .	11,398,900	569,787	-	-	38,100	1,738
SCUP OR GORGY . . . . .	461,600	34,536	-	-	28,500	2,379
SEA BASS . . . . .	10,400	1,687	-	-	-	-
SHAD . . . . .	5,700	312	-	-	32,700	2,498
SHARKS, UNCLASSIFIED . . . . .	2,100	91	-	-	700	26
SKATES . . . . .	62,000	2,50	-	-	-	-
STRIPED BASS . . . . .	100	18	-	-	21,200	3,311
STURGEON . . . . .	3,700	384	-	-	-	-
TAUTOG . . . . .	1,700	48	-	-	8,500	171
FILEFISH . . . . .	225,600	19,307	-	-	-	-
TUNA, BLUEFIN . . . . .	-	-	-	-	346,200	19,178
WHITING . . . . .	58,049,100	1,262,555	-	-	17,200	444
WOLFTH. . . . .	792,600	36,350	-	-	-	-
UNCLASSIFIED; FOR FOOD . . . . .	5,787,000	344,309	-	-	-	-
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	24,529,200	249,857	-	-	-	-
LOBSTERS, NORTHERN . . . . .	171,100	90,970	1,540,000	617,835	-	-
SHRIMP . . . . .	6,900	916	-	-	-	-
SQUID . . . . .	26,000	1,481	-	-	211,900	10,752
TOTAL . . . . .	396,844,700	25,366,354	1,556,000	821,680	3,519,500	146,137
SPECIES	FLOATING TRAPS		POTS AND TRAPS			
	CONCH		CRAB		EEL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUTTERFISH . . . . .	100	\$11	-	-	-	-
COD . . . . .	14,500	1,222	-	-	-	-
EELS, COMMON . . . . .	-	-	-	-	10,300	\$2,765
HERRING, SEA . . . . .	60,600	619	-	-	-	-
MACKEREL . . . . .	727,000	53,785	-	-	-	-
PORPOISE . . . . .	100	34	-	-	-	-
STRIPED BASS . . . . .	300	51	-	-	-	-
WHITING . . . . .	300	10	-	-	-	-
UNCLASSIFIED; FOR FOOD . . . . .	44,900	2,717	-	-	21,200	\$1,708
CRABS, GREEN . . . . .	-	-	27,000	\$4,000	-	-
CONCHS . . . . .	-	-	-	-	-	-
TOTAL . . . . .	848,400	56,449	27,000	4,000	21,200	1,708
					10,300	2,765

(CONTINUED ON NEXT PAGE)

# NEW ENGLAND FISHERIES

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## MASSACHUSETTS - CATCH BY GEAR, 1964 - Continued

SPECIES	POTS AND TRAPS - CONTINUED		GILL NETS				LINES	
	LOBSTER		ANCHOR, SET OR STAKE		DRIFT		HAND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLEUFISH . . . . .	-	-	627,000	\$41,060	-	-	29,900	\$4,633
COD . . . . .	-	-	1,700	76	-	-	1,644,500	91,282
CUSK . . . . .	-	-	-	-	-	-	5,600	106
EELS, COMMON . . . . .	-	-	-	-	-	-	200	50
FLOUNDERS; . . . . .	-	-	-	-	-	-	-	-
BLACKBACK . . . . .	-	-	71,700	4,311	-	-	5,000	312
LEMON SOLE . . . . .	-	-	-	-	-	-	200	14
YELLOWTAIL . . . . .	-	-	-	-	-	-	1,900	170
HADDOCK . . . . .	-	-	272,700	24,400	-	-	269,300	21,853
HAKE, WHITE . . . . .	-	-	57,500	2,210	-	-	1,300	50
HALIBUT . . . . .	-	-	700	259	-	-	4,000	1,732
HERRING . . . . .	-	-	-	-	92,300	\$18,558	-	-
POLLOCK . . . . .	-	-	222,000	10,344	-	-	224,200	9,377
SHARKS, UNCLASSIFIED . . . . .	-	-	2,200	63	500	21	490,200	73,441
STRIPED BASS . . . . .	-	-	700	92	100	21	490,200	73,441
STURGEON . . . . .	-	-	-	-	-	-	-	-
TUNA, BLUEFIN . . . . .	-	-	-	-	-	-	5,900	410
WHITE PERCH . . . . .	-	-	-	-	-	-	600	162
WHITING . . . . .	-	-	-	-	200	4	-	-
WOLFFISH . . . . .	-	-	-	-	-	-	-	-
UNCLASSIFIED, FOR FOOD . . . . .	-	-	277,200	21,951	600	26	1,200	39
CRABS, ROCK . . . . .	50,300	\$11,231	-	-	-	-	342,800	25,161
CRABS, ROCK . . . . .	3,754,000	2,993,123	-	-	-	-	-	-
LOBSTERS, NORTHERN . . . . .	-	-	-	-	400	12	-	-
SQUID . . . . .	-	-	-	-	-	-	-	-
TOTAL . . . . .	3,604,300	2,404,354	1,533,400	104,786	94,100	18,642	3,026,800	228,992
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SPECIES	LINES - CONTINUED					DIP NETS, COMMON		
	TROLL		LONG OR SET WITH HOOKS					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	-	-	-	-	-	-	339,900	\$4,278
BLEUFISH . . . . .	-	-	500	78	-	-	-	-
COD . . . . .	-	-	1,337,300	112,505	-	-	-	-
CUSK . . . . .	-	-	516,400	27,459	-	-	-	-
FLOUNDERS; . . . . .	-	-	-	-	-	-	-	-
BLACKBACK . . . . .	-	-	48,700	6,171	-	-	-	-
DAB . . . . .	-	-	100	2	-	-	-	-
GRAY SOLE . . . . .	-	-	100	7	-	-	-	-
LEMON SOLE . . . . .	-	-	2,300	205	-	-	-	-
YELLOWTAIL . . . . .	-	-	12,900	652	-	-	-	-
HADDOCK . . . . .	-	-	2,726,600	297,619	-	-	-	-
HAKE; . . . . .	-	-	-	-	-	-	-	-
RED . . . . .	-	-	300	12	-	-	-	-
WHITE . . . . .	-	-	50,700	2,726	-	-	-	-
HALIBUT . . . . .	-	-	61,700	27,950	-	-	-	-
POLLOCK . . . . .	-	-	70,100	3,202	-	-	-	-
SHARKS, UNCLASSIFIED . . . . .	-	-	5,600	204	-	-	-	-
SKATES; . . . . .	-	-	300	10	-	-	-	-
STRIPED BASS . . . . .	-	-	9,800	1,347	-	-	-	-
SWORDFISH . . . . .	-	-	973,600	279,102	-	-	-	-
TUNA, BLUEFIN . . . . .	16,500	\$1,320	131,500	10,406	-	-	-	-
WHITING . . . . .	-	-	500	20	-	-	-	-
WOLFFISH . . . . .	-	-	5,600	198	-	-	-	-
UNCLASSIFIED, FOR FOOD . . . . .	-	-	237,900	20,320	-	-	-	-
SCALLOPS, BAY . . . . .	-	-	-	-	-	-	60,000	104,285
TOTAL . . . . .	16,500	1,320	6,194,700	790,205	419,900	106,-43	-	-
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SPECIES	HARPOONS			SPEARS			DREDGES	
	SWORDFISH		OTHER	SPEARS			CLAM	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
EELS, COMMON . . . . .	-	-	-	-	5,700	\$1,605	-	-
SWORDFISH . . . . .	175,700	\$46,671	-	-	-	-	-	-
TUNA, BLUEFIN . . . . .	3,300	241	3,900	\$312	-	-	-	-
CLAMS; . . . . .	-	-	-	-	-	-	-	-
HARD, PUBLIC . . . . .	-	-	-	-	-	-	521,600	\$212,349
SURF . . . . .	-	-	-	-	-	-	10,900	2,478
TOTAL . . . . .	179,200	46,912	3,900	312	5,700	1,605	532,500	214,827

(CONTINUED ON NEXT PAGE)

# NEW ENGLAND FISHERIES

## MASSACHUSETTS - CATCH BY GEAR, 1964 - Continued

SPECIES	DREDGES - CONTINUED					
	MUSSEL		OYSTER		SCALLOP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
COD . . . . .	-	-	-	-	1,000	\$45
FLOUNDERS; BLACKBACK . . . . .	-	-	-	-	57,700	5,155
DAB . . . . .	-	-	-	-	13,600	665
FLUKE . . . . .	-	-	-	-	2,400	403
GRAY SOLE . . . . .	-	-	-	-	4,100	283
LEMON SOLE . . . . .	-	-	-	-	16,600	2,206
YELLOWTAIL . . . . .	-	-	-	-	60,900	2,200
HADDOCK . . . . .	-	-	-	-	1,400	67
WOLFISH . . . . .	-	-	-	-	1,400	50
MUSSELS, SEA . . . . .	23,000	\$1,725	-	-	-	-
OYSTERS, MARKET; PUBLIC; SPRING . . . . .	-	-	4,600	\$5,706	-	-
FALL . . . . .	-	-	5,500	4,012	-	-
PRIVATE; SPRING . . . . .	-	-	7,200	9,800	-	-
FALL . . . . .	-	-	4,700	7,762	-	-
SCALLOPS; BAY . . . . .	-	-	-	-	359,400	452,452
SEA . . . . .	-	-	-	-	13,611,800	7,450,189
TOTAL. . . . .	23,000	1,725	22,000	27,280	14,130,300	7,913,805
SPECIES	TONGS			RAKES		
	OYSTER		OTHER	OYSTER		OTHER
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS; HARD; PUBLIC; PRIVATE . . . . .	-	-	212,300	\$181,312	-	-
SOFT, PUBLIC . . . . .	-	-	-	-	-	-
SURF . . . . .	-	-	-	-	-	-
CONCHS . . . . .	-	-	4,900	648	-	-
MUSSELS, SEA . . . . .	-	-	18,800	1,319	-	-
OYSTERS, MARKET; PUBLIC; SPRING . . . . .	2,000	\$1,800	-	-	-	-
FALL . . . . .	2,600	2,500	-	-	-	-
PRIVATE; SPRING . . . . .	5,800	6,300	-	-	2,000	\$4,500
FALL . . . . .	11,300	13,500	-	-	2,400	5,475
IRISH MOSS . . . . .	-	-	-	-	-	-
TOTAL. . . . .	21,700	24,100	236,000	183,279	4,400	9,975
	HOES		FORKS		DIVING OUTFITS	
SPECIES	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
	-	-	-	-	23,000	\$14,657
	-	-	-	-	-	-
LOBSTERS, NORTHERN . . . . .	-	-	-	-	-	-
CLAMS; HARD, PUBLIC . . . . .	57,800	\$45,085	-	-	-	-
SOFT, PUBLIC . . . . .	3,100	3,900	-	-	-	-
MUSSELS, SEA . . . . .	738,300	476,343	19,300	\$19,998	-	-
BLOODWORMS . . . . .	58,000	57,325	4,700	306	-	-
SANDWORMS . . . . .	44,800	51,620	-	-	-	-
TOTAL. . . . .	908,200	634,273	24,000	20,304	23,000	14,657



## NEW ENGLAND FISHERIES

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# RHODE ISLAND

## OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES, MACKEREL	OTTER TRAWLS		POUND NETS, FISH	FLOATING TRAPS
			FISH	LOBSTER		
<u>FISHERMEN:</u>						
ON VESSELS . . . . .	-	-	207	42	-	89
ON BOATS AND SHORE:						
REGULAR. . . . .	6	4	15	-	1	4
CASUAL . . . . .	-	2	-	-	-	-
TOTAL . . . . .	6	6	222	42	1	93
<u>VEHICLES, MOTOR . . . . .</u>						
GROSS TONNAGE . . . . .	-	-	63	9	-	6
BOATS:						
MOTOR. . . . .	-	3	2,194	520	-	154
OTHER. . . . .	4	3	7	-	1	2
GEAR:						
NUMBER . . . . .	4	3	-	-	-	24
LENGTH, YARDS . . . . .	500	500	70	9	1	19
YARDS AT MOUTH . . . . .	-	-	1,744	246	-	-
<u>ITEM</u>	POTS AND TRAPS				<u>GILL NETS, ANCHOR, SET OR STAKE</u>	<u>LINES</u>
	CONCH	CRAB	EEL	LOBSTER		HAND
<u>FISHERMEN:</u>						
ON VESSELS . . . . .	2	2	-	2	-	11
ON BOATS AND SHORE:						
REGULAR. . . . .	6	9	6	50	3	32
CASUAL . . . . .	2	-	1	100	-	143
TOTAL . . . . .	10	11	7	152	3	186
<u>VEHICLES, MOTOR . . . . .</u>						
GROSS TONNAGE . . . . .	1	1	-	1	-	5
BOATS, MOTOR . . . . .	16	12	-	10	-	75
GEAR:	6	5	7	130	1	46
NUMBER . . . . .	375	877	390	7,008	1	194
SQUARE YARDS . . . . .	-	-	-	-	100	-
HOOKS. . . . .	-	-	-	-	-	361
<u>ITEM</u>	LINES - CONTINUED		HARPOONS, SWORDFISH	SPEARS	DREDGES	
	TROLL	LONG OR SET WITH HOOKS			CLAM	MUSSEL
<u>FISHERMEN:</u>						
ON VESSELS . . . . .	9	14	23	-	30	2
ON BOATS AND SHORE:						
REGULAR. . . . .	-	4	-	1	28	-
CASUAL . . . . .	18	1	-	-	4	-
TOTAL . . . . .	27	19	23	1	62	2
<u>VEHICLES, MOTOR . . . . .</u>						
GROSS TONNAGE . . . . .	4	3	6	-	15	1
BOATS:						
MOTOR. . . . .	55	140	266	-	242	16
OTHER. . . . .	12	3	-	1	16	-
GEAR:	-	-	7	-	-	-
NUMBER . . . . .	27	6	6	1	31	1
YARDS AT MOUTH . . . . .	-	-	-	-	31	2
HOOKS. . . . .	27	4,200	-	-	-	-
<u>ITEM</u>	DREDGES- CONTINUED		TONGS		RAKES	HOES
	SCALLOP	OYSTER	OTHER			
<u>FISHERMEN:</u>						
ON VESSELS . . . . .	4	-	-	-	-	390
ON BOATS AND SHORE:						
REGULAR. . . . .	2	12	-	88	46	465
CASUAL . . . . .	5	8	354	130	19	815
TOTAL . . . . .	11	20	876	218	65	1,670
<u>VEHICLES, MOTOR . . . . .</u>						
GROSS TONNAGE . . . . .	2	-	-	-	-	102
BOATS:						
MOTOR. . . . .	76	-	-	-	-	3,274
OTHER. . . . .	7	20	876	218	-	1,091
GEAR:	-	-	-	-	-	36
NUMBER . . . . .	18	20	876	218	65	-
YARDS AT MOUTH . . . . .	18	-	-	-	-	-

## NEW ENGLAND FISHERIES

## RHODE ISLAND - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		PURSE SEINES, MACKEREL		OTTER TRAWLS			
	POUNDS	VALUE	POUNDS	VALUE	FISH		LOBSTER	
					POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	140,000	\$2,000	-	-	-	-	-	-
ANGLERFISH . . . . .	-	-	-	-	13,600	\$296	-	-
BLUDEFISH . . . . .	-	-	-	-	12,300	1,674	-	-
BUTTERFISH . . . . .	-	-	-	-	2,384,600	189,271	-	-
COD . . . . .	-	-	-	-	371,800	29,112	-	-
EELS, CONGER . . . . .	-	-	-	-	32,800	957	-	-
FLOUNDERS:								
BLACKBACK . . . . .	200	10	-	-	4,060,000	215,800	-	-
DAB . . . . .	-	-	-	-	3,500	194	-	-
FLUME . . . . .	-	-	-	-	614,100	202,112	-	-
GRAY SOLE . . . . .	-	-	-	-	62,200	2,222	-	-
LEMON SOLE . . . . .	-	-	-	-	14,700	2,504	-	-
YELLOWTAIL . . . . .	-	-	-	-	8,246,700	470,540	-	-
HADDOCK . . . . .	-	-	-	-	57,600	4,403	-	-
HAKE:								
RED . . . . .	-	-	-	-	153,500	2,907	-	-
WHITE . . . . .	-	-	-	-	50,700	2,146	-	-
HERRING, SEA . . . . .	-	-	-	-	225,300	8,561	-	-
KING WHITING OR "KINGFISH" . . . . .	-	-	-	-	200	.30	-	-
MACKEREL . . . . .	-	-	20,300	\$1,736	7,300	1,086	-	-
OCEAN POUT . . . . .	-	-	-	-	73,500	10,721	-	-
POLLOCK . . . . .	-	-	-	-	57,700	2,257	-	-
SCUP OR PORGY . . . . .	-	-	-	-	1,185,000	138,597	-	-
SEA BASS . . . . .	-	-	-	-	23,200	4,846	-	-
SEA TROUT OR WEAKFISH, GRAY . . . . .	-	-	-	-	1,100	156	-	-
SHAD . . . . .	-	-	-	-	1,600	.63	-	-
SHARKS:								
GRAYFISH . . . . .	-	-	-	-	700	.23	-	-
UNCLASSIFIED . . . . .	-	-	-	-	600	.27	-	-
SKATES . . . . .	-	-	-	-	8,100	.236	-	-
SMELT . . . . .	100	.36	-	-	-	-		
STRIPED BASS . . . . .	400	100	-	-	8,100	1,195	-	-
STURGEON, COMMON . . . . .	-	-	-	-	1,500	.100	-	-
TAUTOG . . . . .	-	-	-	-	27,500	.911	-	-
TILEFISH . . . . .	-	-	-	-	935,100	57,225	-	-
WHITE PERCH . . . . .	14,700	2,334	-	-	3,703,500	92,916	-	-
UNCLASSIFIED:								
FOR FOOD . . . . .	-	-	-	-	4,500	.355	-	-
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	-	-	-	-	1,218,100	11,650	-	-
LOBSTERS, NORTHERN . . . . .	-	-	-	-	70,900	40,562	714,700	\$411,784
SQUID. . . . .	-	-	-	-	179,400	19,012	-	-
TOTAL. . . . .	155,400	4,480	20,300	\$1,736	24,449,000	1,514,999	714,700	411,784

SPECIES	POUND NETS, FISH		FLOATING TRAPS		POTS AND TRAPS			
	POUNDS	VALUE	POUNDS	VALUE	CONCH		CRAB	
					POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES . . . . .	-	-	73,600	\$1,983	-	-	-	-
BLUDEFISH . . . . .	-	-	73,700	10,267	-	-	-	-
BONITO . . . . .	-	-	19,900	3,430	-	-	-	-
BUTTERFISH . . . . .	-	-	286,900	52,942	-	-	-	-
COD . . . . .	-	-	25,400	2,465	-	-	-	-
EELS, CONGER . . . . .	-	-	300	.10	-	-	-	-
FLOUNDERS:								
BLACKBACK . . . . .	-	-	200	.10	-	-	-	-
FLUME . . . . .	-	-	63,900	15,135	-	-	-	-
HAKE, RED. . . . .	-	-	6,300	.75	-	-	-	-
HERRING, SEA . . . . .	-	-	33,700	1,150	-	-	-	-
KING WHITING OR "KINGFISH" . . . . .	-	-	200	.22	-	-	-	-
MACKEREL . . . . .	-	-	166,000	20,610	-	-	-	-
MULLET, BLACK. . . . .	-	-	800	.76	-	-	-	-
POLLOCK. . . . .	-	-	2,300	112	-	-	-	-
SCUP OR PORGY . . . . .	-	-	7,487,100	389,136	-	-	-	-
SEA BASS . . . . .	-	-	127,400	26,148	-	-	-	-
SEA ROBIN . . . . .	-	-	88,200	1,370	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY. . . . .	-	-	300	.44	-	-	-	-
SHAD . . . . .	-	-	1,100	.62	-	-	-	-
SHARKS:								
GRAYFISH . . . . .	-	-	100	.5	-	-	-	-
UNCLASSIFIED . . . . .	-	-	1,200	.52	-	-	-	-
SKATES . . . . .	-	-	5,800	245	-	-	-	-
STRIPED BASS . . . . .	-	-	20,300	4,218	-	-	-	-
STURGEON, COMMON . . . . .	-	-	2,700	161	-	-	-	-
TAUTOG . . . . .	-	-	17,800	.561	-	-	-	-
TUNA, BLUEFIN. . . . .	-	-	6,400	.550	-	-	-	-
WHITE PERCH. . . . .	4,000	\$600	-	-	-	-	-	-
WHITING. . . . .	-	-	201,100	11,085	-	-	-	-

(CONTINUED ON NEXT PAGE)

## NEW ENGLAND FISHERIES

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**RHODE ISLAND - CATCH BY GEAR, 1964 - Continued**

SPECIES	POUND NETS, FISH		FLOATING TRAPS		POTS AND TRAPS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
UNCLASSIFIED:								
FOR FOOD . . . . .	-	-	800	\$60	-	-	-	-
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	-	-	17,300	173	-	-	-	-
CRABS . . . . .	-	-	-	-	-	-	3,600	\$450
GREEN, . . . . .	-	-	-	-	-	-	169,000	22,217
ROCK . . . . .	-	-	-	-	-	-	11,100	7,539
LOBSTERS, NORTHERN . . . . .	-	-	-	-	42,500	\$9,723	-	-
CONCHS . . . . .	-	-	-	-	-	-	-	-
SQUID . . . . .	-	-	105,800	23,638	-	-	-	-
TOTAL . . . . .	4,000	\$600	8,841,500	565,915	42,500	9,723	203,700	30,205
SPECIES	POTS AND TRAPS - CONTINUED				GILL NETS, ANCHOR, SET OR STAKE		LINES HAND	
	EEL	LOBSTER						
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH . . . . .	-	-	-	-	1,500	\$211	2,200	\$295
BONITO . . . . .	-	-	-	-	4,000	713	-	-
COD . . . . .	-	-	-	-	-	-	45,800	3,675
EELS . . . . .	-	-	-	-	-	-	-	-
COMMON . . . . .	31,200	\$7,775	-	-	-	-	-	-
CONGER . . . . .	-	-	-	-	-	-	300	19
MACKEREL . . . . .	-	-	-	-	-	-	400	45
POLLOCK . . . . .	-	-	-	-	-	-	100	3
SCUP OR PORGY . . . . .	-	-	-	-	-	-	200	16
SEA BASS . . . . .	-	-	-	-	-	-	200	60
STRIPED BASS . . . . .	-	-	-	-	-	-	45,900	6,413
TAUTOG . . . . .	-	-	-	-	-	-	16,400	1,210
UNCLASSIFIED, FOR FOOD . . . . .	-	-	19,100	\$1,897	-	-	-	-
CRABS, ROCK . . . . .	-	-	199,700	138,914	-	-	-	-
LOBSTERS, NORTHERN . . . . .	-	-	600	122	-	-	-	-
CONCHS . . . . .	-	-	-	-	-	-	-	-
TOTAL . . . . .	31,200	7,775	219,400	140,933	5,500	924	111,700	11,754
SPECIES	LINES - CONTINUED				HARPOONS, SWORDFISH		SPEARS	
	TROLL	LONG OR SET WITH HOOKS						
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH . . . . .	600	\$62	1,000	\$67	-	-	-	-
COD . . . . .	-	-	-	-	-	-	100	\$24
EELS, COMMON . . . . .	-	-	-	-	-	-	-	-
STRIPED BASS . . . . .	100	15	-	-	-	-	-	-
SWORDFISH . . . . .	-	-	29,900	9,795	35,200	\$11,134	-	-
TUNA, BLUEFIN . . . . .	31,200	788	1,400	75	-	-	-	-
TOTAL . . . . .	31,900	885	32,300	9,937	35,200	11,134	100	24
SPECIES	DREDGES							
	CLAM		MUSSEL		SCALLOP			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, YELLOWTAIL . . . . .	-	-	-	-	-	-	500	\$19
CLAMS:								
HARD, PUBLIC . . . . .	307,100	\$114,514	-	-	-	-	-	-
OCEAN QUAHOG . . . . .	112,600	11,263	-	-	-	-	-	-
CONCHS . . . . .	4,000	550	-	-	-	-	-	-
MUSSELS, SEA . . . . .	-	-	300	\$52	-	-	-	-
SCALLOPS:								
BAY . . . . .	-	-	-	-	-	-	1,800	2,736
SEA . . . . .	-	-	-	-	-	-	6,600	3,485
TOTAL . . . . .	423,700	126,327	300	52	-	-	8,900	6,240
SPECIES	TONGS				RAKES		HOES	
	OYSTER		OTHER					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS:								
HARD, PUBLIC . . . . .	-	-	1,216,000	\$673,376	304,100	\$168,343	-	\$29,347
SOFT, PUBLIC . . . . .	-	-	100	15	-	-	63,700	-
CONCHS . . . . .	-	-	-	-	-	-	-	-
OYSTERS, MARKET, PUBLIC:								
SPRING . . . . .	4,900	\$5,125	-	-	-	-	-	-
FALL . . . . .	8,000	7,982	-	-	-	-	-	-
TOTAL . . . . .	12,900	13,117	1,216,100	673,391	304,100	168,343	63,700	29,347

**NEW ENGLAND FISHERIES**  
**CONNECTICUT**  
**OPERATING UNITS BY GEAR, 1964**

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS		FYKE AND HOOP NETS, FISH	POTS AND TRAPS			
		FISH	LOBSTER		CONCH	EEL		
FISHERMEN:								
ON VESSELS . . . . .	-	65	18	-	1	-		
ON BOATS AND SHORE:								
REGULAR. . . . .	5	9	-	-	7	1		
CASUAL . . . . .	11	29	-	1	4	24		
TOTAL. . . . .	16	103	18	1	12	25		
VESSELS, MOTOR . . . . .	-	26	5	-	1	-		
GROSS TONNAGE . . . . .		771	393	-	11	-		
BOATS:								
MOTOR. . . . .	1	28	-	1	9	21		
OTHER. . . . .	8	-	-	-	-	1		
GEAR:								
NUMBER . . . . .	9	54	5	5	429	445		
LENGTH, YARDS . . . . .	471	-	159	-	-	-		
YARDS AT MOUTH . . . . .	-	937	-	-	-	-		
ITEM	POTS AND TRAPS-CONTINUED	GILL NETS			LINES, HAND	DIP NETS, COMMON		
	LOBSTER	ANCHOR, SET OR STAKE	DRIFT					
			SHAD	OTHER				
FISHERMEN:								
ON VESSELS . . . . .	21	-	10	-	2	-		
ON BOATS AND SHORE:								
REGULAR. . . . .	26	-	9	-	4	11		
CASUAL . . . . .	143	10	100	3	35	33		
TOTAL. . . . .	190	10	119	11	41	44		
VESSELS, MOTOR . . . . .	10	-	3	-	1	-		
GROSS TONNAGE . . . . .	99	-	36	-	11	-		
BOATS:								
MOTOR. . . . .	126	1	42	-	29	44		
OTHER. . . . .	7	7	7	10	-	-		
GEAR:								
NUMBER . . . . .	9,831	8	46	10	41	44		
SQUARE YARDS . . . . .	-	1,467	100,954	2,953	-	-		
HOOKS. . . . .	-	-	-	-	64	-		
ITEM	HARPOONS, SWORDFISH	DREDGES		TONGS		HOES		
		CLAM	OYSTER, COMMON	OYSTER	OTHER			
FISHERMEN:								
ON VESSELS . . . . .	2	18	28	-	-	142		
ON BOATS AND SHORE:								
REGULAR. . . . .	-	2	-	1	2	47		
CASUAL . . . . .	5	-	-	7	11	326		
TOTAL. . . . .	7	20	28	8	13	1		
VESSELS, MOTOR . . . . .	1	6	9	-	-	51		
GROSS TONNAGE . . . . .	11	205	214	-	-	1,611		
BOATS:								
MOTOR. . . . .	2	1	-	7	11	242		
OTHER. . . . .	-	-	-	-	-	23		
GEAR:								
NUMBER . . . . .	3	7	17	8	13	1		
YARDS AT MOUTH . . . . .	-	7	23	-	-	-		

## NEW ENGLAND FISHERIES

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## **CONNECTICUT - CATCH BY GEAR, 1964**

SPECIES	HAUL SEINES, COMMON		OTTER TRAWLS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALLEWIVES . . . . .	12,700	\$133	1,500	\$15	-	-
BLUEFISH . . . . .	-	-	15,300	2,016	-	-
BUTTERFISH . . . . .	-	-	122,700	11,540	-	-
CARP . . . . .	2,300	446	-	-	-	-
COD. . . . .	-	-	135,100	10,694	-	-
EELS, COMMON . . . . .	700	162	-	-	-	-
FLOWERS:						
BLACKBACK. . . . .	100	10	953,600	51,535	-	-
DAB. . . . .	-	-	200	11	-	-
FLUKE. . . . .	-	-	135,200	43,686	-	-
GRAY SOLE. . . . .	-	-	4,000	274	-	-
LEMON SOLE. . . . .	-	-	4,000	740	-	-
YELLOWTAIL. . . . .	-	-	48,900	2,787	-	-
HADDOCK. . . . .	-	-	5,000	390	-	-
HAKE, RED. . . . .	-	-	27,000	510	-	-
HERRING, SEA. . . . .	-	-	25,500	955	-	-
MACKEREL. . . . .	-	-	3,200	478	-	-
MENHADEN. . . . .	-	-	100	1	-	-
POLLOCK. . . . .	-	-	1,100	45	-	-
SEA BASS PORGY. . . . .	-	-	721,400	82,185	-	-
SEA BASS. . . . .	-	-	27,300	5,259	-	-
SEA ROBIN. . . . .	-	-	7,400	93	-	-
SEA TROUT OR WEAKFISH, GRAY. . . . .	-	-	200	36	-	-
SHAD. . . . .	-	-	100	8	-	-
SHARKS:						
GRAYFISH. . . . .	-	-	10,300	113	-	-
UNCLASSIFIED. . . . .	-	-	200	9	-	-
SKATES. . . . .	-	-	6,900	109	-	-
SMELT. . . . .	4,000	1,400	-	-	-	-
STURGEON. . . . .	-	-	11,000	1,082	-	-
SUCKERS. . . . .	500	10	-	-	-	-
TILAPIA. . . . .	100	10	6,900	368	-	-
WHITE SH. . . . .	-	-	900	74	-	-
WHITING. . . . .	-	-	395,900	10,324	-	-
UNCLASSIFIED, FOR BAIT, RE- DUCTION, AND ANIMAL FOOD. . . . .	2,500	60	394,200	5,269	-	-
LOBSTERS, NORTHERN. . . . .	-	-	500	206	260,000	\$167,720
CONCHS. . . . .	-	-	5,100	852	-	-
SQUID. . . . .	-	-	31,200	3,317	-	-
TOTAL. . . . .	22,900	2,231	3,104,900	234,983	280,000	167,720

SPECIES	FYKE AND HOOP NETS, FISH		POTS AND TRAPS					
			CONCH		EEL		LOBSTER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CARP . . . . .	200	\$20	-	-	-	-	-	-
CATFISH AND BULLHEADS . . . . .	800	73	-	-	-	-	-	-
EELS, COMMON . . . . .	300	90	-	-	16,800	\$3,706	-	-
SUCKERS . . . . .	500	10	-	-	-	-	-	-
LOBSTERS, NORTHERN . . . . .	-	-	-	-	-	-	290,200	\$210,747
CONCHS . . . . .	-	-	62,000	\$10,943	-	-	1,300	224
TOTAL . . . . .	1,800	193	62,000	10,943	16,800	3,706	291,500	210,971

SPECIES	GILL NETS						LINES, HAND			
	ANCHOR, SET OR STAKE		DRIFT							
			SHAD		OTHER					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE		
BLUEFISH . . . . .	-	-	-	-	14,000	\$2,221	31,000	\$4,853		
CARP . . . . .	-	-	-	-	500	75	-	-		
COD . . . . .	-	-	-	-	-	-	12,000	957		
EELS, COMMON . . . . .	-	-	-	-	-	-	200	40		
FLOUNDERS:										
BLACKBACK . . . . .	-	-	-	-	-	-	2,800	189		
FLUKE . . . . .	-	-	-	-	-	-	200	63		
HERRING, SEA . . . . .	-	-	-	-	200	5	-	-		
MACKEREL . . . . .	-	-	-	-	2,100	378	300	42		
MENHADEN . . . . .	-	-	-	-	3,800	72	-	-		
SCUP OR PORGY . . . . .	-	-	-	-	-	-	500	56		
SEA BASS . . . . .	-	-	-	-	-	-	300	62		
SHAD . . . . .	1,500	\$310	276,100	\$56,079	-	-	-	-		
SKATES . . . . .	-	-	-	-	-	-	100	1		
SMELT . . . . .	100	40	-	-	-	-	-	-		
STRIPED BASS . . . . .	-	-	-	-	5,800	799	29,600	4,014		
							3,300	272		

(CONTINUED ON NEXT PAGE)

## NEW ENGLAND FISHERIES

## CONNECTICUT - CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS						LINES, HAND			
	ANCHOR, SET OR STAKE		DRIFT							
			SHAD		OTHER					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE		
UNCLASSIFIED: FOR FOOD . . . . . BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	-	-	-	-	100	\$3	300	\$34		
TOTAL. . . . .	1,600	\$350	276,100	\$ 58,079	28,400	3,583	81,500	10,596		
SPECIES	DIP NETS, COMMON		HARPOONS, SWORDFISH		DREDGES					
					CLAM		OYSTER, COMMON			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE		
ALEWIVES . . . . . SWORDFISH . . . . . TUNA, BLUEFIN . . . . . CRABS, BLUE, HARD . . . . . CLAMS, HARD: PUBLIC . . . . . PRIVATE . . . . . OYSTERS, MARKET, PRIVATE: FALL . . . . . SCALLOPS, BAY . . . . .	600 - - 100 - - - - 24,800	\$9 - - 30 - - - - 35,216	- 500 300 - - - - - -	- \$319 26 - - - - - -	- - - - - 3,700 325,300 - - -	- - - - \$1,352 136,000 - - -	- - - - - 45,700 77,300 - - -	- - - - - \$93,734 150,962 - - -		
TOTAL. . . . .	25,500	35,255	900	345	330,000	137,352	123,000	234,696		
SPECIES	TONGS				HOES					
	OYSTER		OTHER							
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE		
CLAMS: HARD, PUBLIC . . . . . SOFT, PUBLIC . . . . . OYSTERS, MARKET, PUBLIC, FALL. . . . . . . . .	- - 800	- - \$905	1,700 - -	\$646 - -	- 300 -	- \$200 -	- - -			
TOTAL. . . . . . . . .	800	905	1,700	846	300	200				



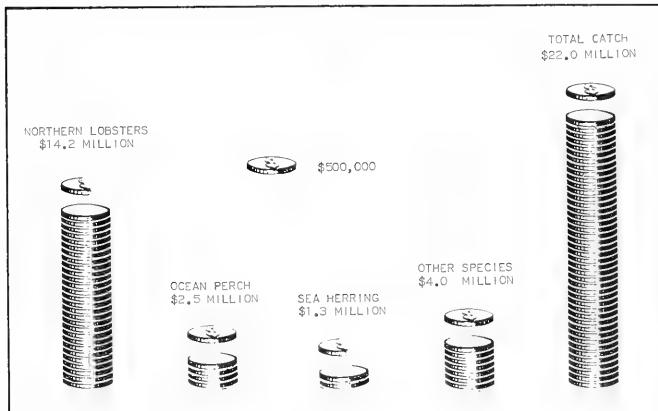
## LANDINGS AT MAINE PORTS

In cooperation with the Maine Department of Sea and Shore Fisheries, the Bureau of Commercial 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 monthly in "Maine Landings," which is in the Current Fishery Statistical series. 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 1947-58. In 1959, data were shown on the catch off Canada by species and area of capture. Information was also included on the number of fishing craft operated, trips, days absent, and days fished. Since 1960, similar data have been shown for most of the Maine catch, except sea herring, lobsters, sea scallops, and a small amount of other fish. The quantities shown represent the round weight of 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.

Landings at Maine ports by fishing craft of all sizes during 1964 were 192.6 million pounds, valued at \$22.0 million. Compared with 1963 (285.6 million pounds worth \$21.2 million), this was a decline in poundage of 33 percent but an increase of 3 percent in value. The major decreases were in sea herring, down 91.5 million pounds and ocean perch, 5.0 million pounds. Whiting (25.3 million pounds--9.4 million more than in 1963) was the only species to show a substantial increase. Lobsters (21.4 million pounds valued at \$14.2 million) accounted for 11 percent of the total catch and 65 percent of the total value. Although the lobster catches declined 1.4 million pounds, the demand for this species brought an increase in value of \$1.5 million and was responsible for the overall increase in value of Maine landings during 1964.

### VALUE OF MAINE CATCH, 1964



## NEW ENGLAND FISHERIES

## LANDINGS AT MAINE PORTS

## SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964

GEAR AND SUBAREA	CRAFT FISHING	TRIPS	DAYS ABSENT	DAYS FISHED	COD, DRAWN			FLOUNDERS, ROUND			
					NUMBER	NUMBER	POUNDS	MARKET	SCROD	CUSK, DRUM	GRAY SOLE
										LEMON SOLE	YELLOW- TAIL
LINE TRAWLS:											
EASTERN MAINE . . . . .	14	201.0	201	100.5	32,987	41,712	-	92	17,733	-	-
GULF . . . . .	634.0	634	377.0	19,777	117,440	24,190	160	46,695	753	-	-
WESTERN MAINE . . . . .	11	48.0	48	27.7	1,315	-	-	-	-	-	-
TOTAL . . . . .	162	683.0	683	445.2	69,073	183,362	252	64,928	753	-	-
HANDLINES:											
EASTERN MAINE . . . . .	6	40.0	40	20.0	3,703	18,859	-	-	-	-	-
CENTRAL MAINE . . . . .	30	205.0	206	22,865	139,170	-	-	-	-	-	-
WESTERN MAINE . . . . .	9	45.0	45	33.5	1,940	11,703	415	1,069	-	-	-
TOTAL . . . . .	145	291.0	291	156.5	28,509	169,732	415	3,293	-	-	-
HARPOONS, WESTERN MAINE . . . . .	1/18	74.0	74	37.0	-	-	-	-	-	-	-
LONGLINES:											
SOUTHWEST GRAND BANKS . . . . .	1	2.0	44	26.0	-	-	-	-	-	-	-
CENTRAL AND SOUTHEAST GEORGES . . . . .	1	3.0	28	-	-	-	-	-	-	-	-
XXII UNCLASSIFIED . . . . .	1	1.0	12	6.0	-	-	-	-	-	-	-
OFF LONG ISLAND . . . . .	1	3.0	56	39.0	-	-	-	-	-	-	-
TOTAL . . . . .	1/1	9.0	142	88.0	-	-	-	-	-	-	-
OTTER TRAWLS:											
SOUTHEAST GRAND BANKS . . . . .	8	27.3	460	102.4	-	-	-	-	-	-	-
SOUTHWEST GRAND BANKS . . . . .	14	15.0	237	69.6	-	-	-	-	-	-	-
STARFISH BANK . . . . .	6	1.9	24	7.6	-	-	-	-	-	-	-
EAST GULF, ST. LAWRENCE . . . . .	16	36.6	485	63.3	-	-	-	-	-	-	-
NORTH GULF, OFF ST. LAWRENCE . . . . .	16	50.6	677	18.5	350	305	-	-	-	-	-
NORTHEAST CASE, BRETON . . . . .	3	1.6	122	6.1	-	-	-	-	-	-	-
M'SAINE BANK . . . . .	8	9.1	124	27.6	-	-	-	-	-	-	-
BANQUIEREAU . . . . .	16	52.5	612	299.5	-	-	-	-	-	-	-
CANSO . . . . .	16	1.0	14	1.0	14	1.335	5,325	340	7,100	10	-
MIDDLE GROUND . . . . .	4	1.9	22	7.4	725	1,150	-	-	-	-	-
HORSESHOE GROUND . . . . .	4	3.6	54	16.7	970	2,700	-	-	-	-	-
SOUTHWEST SABLE ISLAND BANK . . . . .	1	1.8	7	2.1	-	-	-	-	-	-	-
SOUTHERN NOVA SCOTIA . . . . .	7	7.5	89	20.0	2,205	11,085	-	-	-	-	-
EMERALD BANK . . . . .	6	3.2	46	9.4	-	-	-	-	-	-	-
CENTRAL NOVA SCOTIA . . . . .	4	2.9	42	6.1	-	-	-	-	-	-	-
SOUTHERN NOVA SCOTIA . . . . .	3	4.5	52	13.3	1,575	19,407	870	20,455	3,005	3,005	-
WESTERN NOVA SCOTIA . . . . .	16	44.3	39	13.0	13,945	15,712	-	-	-	-	-
WESTERN IDYLLWELL . . . . .	11	13.6	69	26.6	11,260	11,628	870	7,000	3,190	3,190	-
SOUTHERN BAY OF FUNDY . . . . .	5	9.2	60	27.0	11,260	11,628	-	-	-	-	-
NORTHERN BAY OF FUNDY . . . . .	3	4.8	38	27.0	5,995	9,154	-	-	-	-	-
EASTERN MAINE . . . . .	11	31.4	186	62.1	8,068	28,668	-	-	-	-	-
CENTRAL MAINE . . . . .	40	1,046.4	1,396	1,233.4	30,114	190,194	1,278	9,691	51,476	31,145	54,716
WESTERN MAINE . . . . .	2	324.0	2,968	182,977	380,801	5,170	300	5,170	136,040	1,545	15,562
EASTERN MASSACHUSETTS . . . . .	32	9.0	9	3.9	89,021	96,418	75	89,175	51,656	5,410	-
INNER GROUNDS . . . . .	34	181.2	1,014	366.6	7,034	24.5	-	-	-	-	-
WEST SIDE SOUTH CHANNEL . . . . .	10	8.4	175	7.75	7,349	7,349	-	-	-	-	-

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES A1 END OF TABLE.

130

4,625

54,716

15,562

1,325

5,905

5,349

3,145

51,476

226,174

1,545

5,410

3,203

1,630

# NEW ENGLAND FISHERIES

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## LANDINGS AT MAINE PORTS

### SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	CRAFT FISHING	TRIPS	DAYS ABSENT	DAYS FISHED	FLOUNDERS, ROUND								
					NUMBER	NUMBER	POUNDS	LARGE	MEDIUM	COD, DRAWN	GRAY SOLE	LEMON SOLE	YELLOW- TAIL
OTTER TRAWLS - CONTINUED:													
EAST SIDE, SOUTH CHANNEL AND NORTHEAST PEAK;													
NORTHERN EDGE AND NORTHEAST PEAK;													
TOTAL . . . . .	1	1,4	4	1,5									
3,896.0	6,944	3,294.7	344,572	810,125	9,016	289,595	496,649			1,545	5,410	75,033	
SINK GILL NETS,													
WESTERN MAINE													
INNER GROUNDS													
TOTAL . . . . .	5	457.0	457	457.0	277,573	117,511	-	1,500	-	-	-	-	
2	281.0	28	28.0	34,165	7,055	-	75	-	-	-	-	-	
1/5	485.0	485	485.0	311,738	124,566	-	1,635	-	-	-	-	-	
SCALLOP DREDGES;													
EASTERN MAINE													
WESTERN MAINE													
INNER GROUNDS													
TOTAL . . . . .	4	126.0	126	63.0	-	-	-	-	-	-	-	-	
20	433.0	433	226.4	5	-	-	-	-	-	-	-	-	
4	5.0	5	2.5	-	-	-	-	-	-	-	-	-	
1	2.0	7	4.0	-	-	-	-	-	-	-	-	-	
1	2.0	13	1.0	-	-	-	-	-	-	-	-	-	
2	7.0	98	42.0	-	-	-	-	-	-	-	-	-	
3	6.1	34	38.5	-	-	-	-	-	-	-	-	-	
4	36.0	317	238.5	-	-	-	-	-	-	-	-	-	
3.9	42	332	51	-	-	-	-	-	-	-	-	-	
TOTAL . . . . .	641.0	1,075	642.4	-	-	-	-	-	-	-	-	-	
1/33	6,279.0	11,944	5,143.8	173,692	1,287,785	9,665	328,141	497,602	1,545	5,410	75,033		
TOTAL (LANDED WEIGHT, ALL SPECIES) .	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL (ROUND WEIGHT, ALL SPECIES 2/)	-	-	-	-	-	-	-	-	-	-	-	-	
GRAND TOTAL (ROUND WEIGHT 2/)	-	-	-	-	-	-	-	-	-	-	-	-	
FLOUNDERS, ROUND - CONTINUED													
GRAYFISH, ROUND													
DAB													
POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	
-	-	62,731	3,666	471,999	1,283	-	-	-	-	-	-	-	
-	-	66,231	1,476,429	30,178	30,178	-	-	-	-	-	-	-	
17,905	17,920	1,660	51,165	2,087	-	-	-	-	-	-	-	-	460
97	17,905	146,792	5,156	1,981,593	39,548	-	-	-	-	-	-	-	
97	11,163	355	4,598	-	-	-	-	-	-	-	-	-	
-	-	531	6,074	1,234	2,360	-	-	-	-	-	-	-	
-	-	11,163	3,383	5,531	5,531	931	92	-	-	-	-	-	460
TOTAL . . . . .	-	11,163	355	12,826	3,383	-	-	-	-	-	-	-	460

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

# NEW ENGLAND FISHERIES

## LANDINGS AT MAINE PORTS

### SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	FLOUN- DEES ROUND CONTINUED DAB	HADDOCK, DRAWN LARGE POUNDS	GRAYFISH, ROUND POUNDS	SWORDFISH, ROUND POUNDS	HALIBUT, DRAWN POUNDS	HERRING, SEA, FISHING POUNDS	MACKER- EL, ROUND POUNDS	OCEAN PEACH, ROUND POUNDS	POLLOCK, DRAWN POUNDS	SWORD- FISH, DRESSED POUNDS	TUNA, BLUFIN, ROUND POUNDS
HARPOONS: WESTERN MAINE . . . . .	-	-	-	-	-	-	-	-	-	-	-
LONGINES: SOUTHWEST GRAND BANKS . . . . .	-	-	-	-	-	-	-	-	-	-	-
ST. PIERRE BANK . . . . .	-	-	-	-	-	-	-	-	-	-	-
EAST GULF OF ST. LAWRENCE . . . . .	-	-	-	-	-	-	-	-	-	-	-
NORTH GULF OF ST. LAWRENCE . . . . .	-	-	-	-	-	-	-	-	-	-	-
MAISANIE BANK . . . . .	-	-	-	-	-	-	-	-	-	-	-
BANGUEREAU . . . . .	-	-	-	-	-	-	-	-	-	-	-
CANSO . . . . .	-	-	-	-	-	-	-	-	-	-	-
MIDDLE GROUND . . . . .	-	-	-	-	-	-	-	-	-	-	-
HORSESHOE GROUND . . . . .	-	-	-	-	-	-	-	-	-	-	-
SOUTHWEST SABLE ISLAND BANK . . . . .	-	-	-	-	-	-	-	-	-	-	-
EASTERN NOVA SCOTIA . . . . .	-	-	-	-	-	-	-	-	-	-	-
EMERALD BANK . . . . .	-	-	-	-	-	-	-	-	-	-	-
CENTRAL NOVA SCOTIA . . . . .	-	-	-	-	-	-	-	-	-	-	-
SOUTHERN NOVA SCOTIA . . . . .	-	-	-	-	-	-	-	-	-	-	-
SOUTHERN BROWN BANK . . . . .	-	-	-	-	-	-	-	-	-	-	-
WA SOUTHERN NOVA SCOTIA . . . . .	-	-	-	-	-	-	-	-	-	-	-
SOUTHERN BAY OF FUNDY . . . . .	-	-	-	-	-	-	-	-	-	-	-
NORTHERN BAY OF FUNDY . . . . .	-	-	-	-	-	-	-	-	-	-	-
EASTERN MAINE . . . . .	-	-	-	-	-	-	-	-	-	-	-
CENTRAL MAINE . . . . .	-	-	-	-	-	-	-	-	-	-	-
WESTERN MAINE . . . . .	-	-	-	-	-	-	-	-	-	-	-
EASTERN MASSACHUSETTS . . . . .	-	-	-	-	-	-	-	-	-	-	-
INNER GROUNDS . . . . .	-	-	-	-	-	-	-	-	-	-	-
WEST SIDE SOUTH CHANNEL . . . . .	-	-	-	-	-	-	-	-	-	-	-
EAST SIDE SOUTH CHANNEL . . . . .	-	-	-	-	-	-	-	-	-	-	-
NORTHERN EDGE AND NORTHEAST PEAK . . . . .	-	-	-	-	-	-	-	-	-	-	-
TOTAL . . . . .	8,750	1,756,251	590,955	536,144	23,578	269,070	-	58,936,209	781,397	-	-
SINK GILL NETS:											
WESTERN MAINE . . . . .	-	-	-	-	-	-	-	-	-	-	-
INNER GROUNDS . . . . .	-	-	-	-	-	-	-	-	-	-	-
TOTAL . . . . .	100,969	64,263 11,205	-	119,700 260	210 65	-	-	-	275,455	-	-
TOTAL (LANDED WEIGHT, ALL SPECIES) . . . . .	100,969	75,468	-	119,960	275	-	-	-	275,695	-	-
TOTAL (ROUND WEIGHT, ALL SPECIES 2) . . . . .	107,644	1,989,664	596,466	2,612,523	66,784	269,070	-	58,936,209	1,161,328	192,646	51,346
MISCELLANEOUS SEAF. UNCLASSIFIED WATERS OFF MAINE . . . . .	-	-	-	-	-	-	-	60,595,960	488,063	-	-
GRAND TOTAL (ROUND WEIGHT 2) . . . . .	187,644	2,268,217	679,971	3,554,381	76,800	269,070	-	58,936,209	1,312,295	241,060	51,346

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

# LANDINGS AT MAINE PORTS

## SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	WHITING, ROUND	WOLFFISH, DRAWN	UNCLASSIFIED FISH		SCALLOPS, (MEATS)	SHRIMP, ROUND	LOBSTERS, ROUND	UNCLASSI- FIED SHELFISH	TOTAL
			POUNDS	POUNDS					
<b>LINE TRAPS:</b>									
EASTERN MAINE . . . . .	-	-	144	-	-	-	-	-	616,127
CENTRAL MAINE . . . . .	-	-	-	50,395	-	-	-	-	1,768,298
WESTERN MAINE . . . . .	-	-	-	90,395	-	-	-	-	210,907
<b>TOTAL . . . . .</b>	<b>-</b>	<b>-</b>	<b>144</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,595,332</b>
<b>HANDLINES:</b>									
EASTERN MAINE . . . . .	-	-	151	37,449	-	-	-	-	32,139
CENTRAL MAINE . . . . .	-	-	66	26,102	-	-	-	-	242,694
WESTERN MAINE . . . . .	-	-	25	257	-	-	-	-	52,240
<b>TOTAL . . . . .</b>	<b>-</b>	<b>-</b>	<b>410</b>	<b>89,108</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>368,633</b>
<b>HARPOONS, WESTERN MAINE . . . . .</b>									
<b>TOTAL . . . . .</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>40,133</b>
<b>LONGINES:</b>									
SOUTHWEST GRAND BANKS . . . . .	-	-	-	-	-	-	-	-	43,608
SOUTHEAST GRAND BANKS . . . . .	-	-	-	-	-	-	-	-	3,643,020
ST. PIERRE BANK . . . . .	-	-	-	-	-	-	-	-	440,451
EAST GULF OF ST. LAWRENCE . . . . .	-	-	-	-	-	-	-	-	7,081,290
NORTH GULF OF ST. LAWRENCE . . . . .	-	-	-	-	-	-	-	-	10,365,450
NORTHEAST CAPE BRETON . . . . .	-	-	-	-	-	-	-	-	1,329,510
MISAINIE BANK . . . . .	-	-	-	-	-	-	-	-	1,204,700
BANQUIEREAU . . . . .	-	-	-	-	-	-	-	-	10,164,700
<b>TOTAL . . . . .</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>203,141</b>
<b>OTTER TRAPS:</b>									
SOUTHEAST GRAND BANKS . . . . .	-	-	-	-	-	-	-	-	6,157,719
SOUTHWEST GRAND BANKS . . . . .	-	-	-	-	-	-	-	-	3,643,020
ST. PIERRE BANK . . . . .	-	-	-	-	-	-	-	-	440,451
EAST GULF OF ST. LAWRENCE . . . . .	-	-	-	-	-	-	-	-	7,081,290
NORTH GULF OF ST. LAWRENCE . . . . .	-	-	-	-	-	-	-	-	10,365,450
NORTHEAST CAPE BRETON . . . . .	-	-	-	-	-	-	-	-	1,329,510
MISAINIE BANK . . . . .	-	-	-	-	-	-	-	-	1,204,700
BANQUIEREAU . . . . .	-	-	-	-	-	-	-	-	10,164,700
<b>TOTAL . . . . .</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>186,022</b>
<b>HALIBUT:</b>									
HOLES IN GROUNDS . . . . .	-	-	-	-	-	-	-	-	656,310
ST. PIERRE BANK . . . . .	-	-	-	-	-	-	-	-	150,000
EAST GULF OF ST. LAWRENCE . . . . .	-	-	-	-	-	-	-	-	1,135,613
EAST GULF OF ST. LAWRENCE . . . . .	-	-	-	-	-	-	-	-	367,691
EMERALD BANK . . . . .	-	-	-	-	-	-	-	-	385,790
CENTRAL NOVA SCOTIA . . . . .	-	-	-	-	-	-	-	-	422,610
SOUTHERN NOVA SCOTIA . . . . .	-	-	-	-	-	-	-	-	3,755,063
WESTERN NOVA SCOTIA . . . . .	-	-	-	-	-	-	-	-	31,173
WESTERN NOVA SCOTIA . . . . .	-	-	-	-	-	-	-	-	118,068
SOUTHERN BAY OF FUNDY . . . . .	-	-	-	-	-	-	-	-	984,927
NORTHERN BAY OF FUNDY . . . . .	-	-	-	-	-	-	-	-	566,576
EASTERN MAINE . . . . .	-	-	-	-	-	-	-	-	30,163,735
WESTERN MAINE . . . . .	-	-	-	-	-	-	-	-	29,740
EASTERN MASSACHUSETTS . . . . .	-	-	-	-	-	-	-	-	8,070,859
INNER GROUNDS . . . . .	-	-	-	-	-	-	-	-	576,046
WEST SIDE SOUTH CHANNEL . . . . .	-	-	-	-	-	-	-	-	21,675
EAST SIDE SOUTH CHANNEL . . . . .	-	-	-	-	-	-	-	-	53,053
NORTHERN EDGE AND NORTHEAST PEAK . . . . .	-	-	-	-	-	-	-	-	93,053,539
<b>TOTAL . . . . .</b>	<b>-</b>	<b>-</b>	<b>21,133</b>	<b>315</b>	<b>1,308,272</b>	<b>-</b>	<b>924,667</b>	<b>6</b>	<b>93,053,539</b>

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

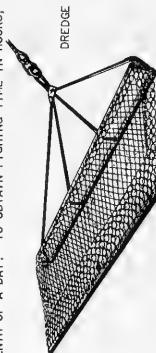
# NEW ENGLAND FISHERIES

## LANDINGS AT MAINE PORTS

### SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	WHITING, ROUND	WOLFISS, DRAWN	UNCLASSIFIED FISH		SCALLOPS, (SEA) POUNDS	SHRIMP, ROUND	LOBSTERS, ROUND	UNCLASSIFIED SHELLFISH	TOTAL POUNDS
			FOR FOOD	FOR REDUC- TION TON					
SINK GILL NETS:									
WESTERN MAINE . . . . .									
INNER GROUNDS . . . . .									
TOTAL . . . . .									
SCALLOP DRADES:									
EASTERN MAINE . . . . .									
CENTRAL MAINE . . . . .									
WESTERN MASSACHUSETTS . . . . .									
INNER GROUNDS . . . . .									
WEST SIDE SOUTH CHANNEL . . . . .									
EAST SIDE SOUTH CHANNEL . . . . .									
NORTHERN EDGE AND NORTHEAST PEAK . . . . .									
CENTRAL AND SOUTHEAST GEORGES . . . . .									
TOTAL . . . . .									
TOTAL (LANDED WEIGHT, ALL SPECIES) . . . . .	25,303.459	21,494	86,688	1,661,755	916,892	924,677	6		916,892
TOTAL (ROUND WEIGHT, ALL SPECIES 2/)	25,303.459	25,792	89,688	1,661,755	916,892	924,677	6		98,553.639
MISCELLANEOUS GEAR, UNCLASSIFIED WATERS OFF MAINE . . . . .	600	-	1,604,613	73,067	-	-	21,413,407	7,975,402	100,422,438
GRAND TOTAL (ROUND WEIGHT 2/)	25,304.059	25,792	1,694,301	1,734,822	916,892	924,677	21,413,413	7,975,402	192,574,590

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 FISH IS ALSO CONVERTED TO ROUND WEIGHT BY MULTIPLYING BY THE FOLLOWING FACTORS: COD, URANN 1.72 CUSK, DRAWN 1.13; HADDOCK, DRAWN 1.14; WHITE HAKE, DRESSED 1.34; HALIBUT, DRAWN 1.15; POLLACK, WOLFISS, DRAWN 1.20. NOTE--DAYS ABSENT IS THE MEASURE OF TIME TO THE NEAREST COMPLETE DAY, THAT A VESSEL IS AWAY FROM PORT DURING A FISHING TRIP. WHEN A CRATE OPERATES IN TWO OR MORE SUB-AREAS DURING A VOYAGE, A FRACTIONAL PART (IN TENTHS) OF THE TRIP IS ALLOTTED TO THE SUBAREA ON THE BASIS OF THE CATCH IN EACH. 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.



## LANDINGS AT MASSACHUSETTS PORTS

Detailed statistics on landings at Boston, Gloucester, New Bedford, and other Massachusetts ports are collected and published monthly and annually in the Current Fishery Statistics series. Additional detailed tabulations are prepared for 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. Not included are crabs, pot-caught lobsters, clams, sea mussels, oysters, bay scallop meats, Irish moss, and small amounts of other fish, shellfish, and other marine organisms.

The following tables are a summary of 1964 data on Massachusetts landings by port, gear, and area of capture. Since the quantities shown are the weights as landed, they are not directly comparable with the catch figures in other tables in this Digest.

Landings by fishing craft of all sizes at Boston, Gloucester, New Bedford, and other Massachusetts ports in 1964 were 409.6 million pounds worth \$35.2 million. This was a decline of 5 percent in volume and 4 percent in value compared with 1963 landings of 431.7 million pounds worth \$36.8 million. For the first time, New Bedford became the leading port in both total landings and value, having 33 percent of the volume, followed by Gloucester with 31 percent; Boston, 26; and other Massachusetts ports, 10 percent. The value was more unevenly distributed, with New Bedford well in front with 48 percent, followed by Boston, 29; Gloucester, 17; and other ports, 6 percent.

Boston landings of 107.5 million pounds were nearly 400,000 pounds more than in 1963, whereas the value of \$10.3 million was 5 percent less. Haddock was 76.3 million pounds, or 71 percent of the Boston landings. Although the composition of the haddock catch was nearly equally divided between large and scrod fish, as in 1963, and the landings were only 1.5 percent higher, the average price dropped to 10.45 cents per pound from 11.05 cents in 1963.

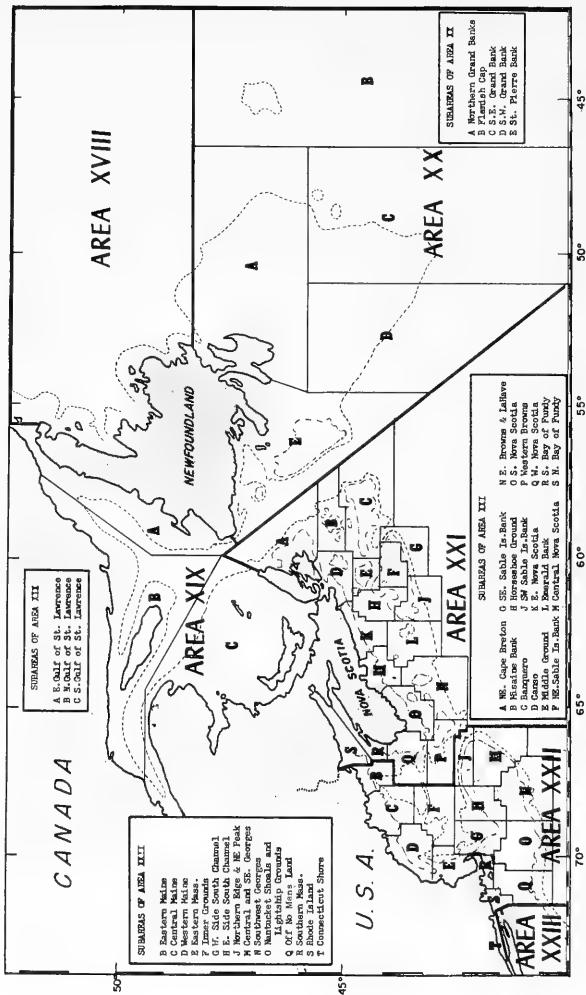
Gloucester landings continued to drop, and that port lost the lead position it had held since 1948. The 124.2 million pounds landed were 11 percent below 1963; the value of \$6.1 million was down 8 percent. Ocean perch--down 33 percent to 29.1 million pounds--was the major cause of the decline. Whiting was off 10 percent to 44.3 million pounds, and fish for reduction was down 46 percent. A bright note was the increase in haddock landings to 22.9 million pounds--up 33 percent from 1963. This increase reflected the growing diversion of Gloucester dragger from ocean perch fishing to haddock fishing.

New Bedford set another record with 135.7 million pounds--nearly 600,000 pounds more than in 1963; however, the value of \$16.7 million was down slightly. Yellowtail flounders dominated with 65.8 million pounds--up 3 percent and a new record. Sea scallops declined sharply to 12.9 million pounds--19 percent under 1963--but the value of \$7.0 million was only 5 percent under that for the previous year and was 42 percent of the value of the total New Bedford catch.

A total of 650 craft landed 409.6 million pounds of fish and shellfish at principal Massachusetts ports in 1964. Of these, 406 using otter trawls landed 375.1 million pounds (92 percent). Sixty-four scallop dragger landed 13.8 million pounds (3 percent) and 11 purse seiners, 8.2 million pounds (2 percent). The remainder was taken by line trawls, handlines, harpoons, longlines, floating traps, sink and drift gill nets, and pound nets. Fishing grounds off the New England States yielded 358.8 million pounds--88 percent of the landings. Grounds off Nova Scotia accounted for 9 percent and those in the Gulf of St. Lawrence, 2 percent. The remainder was taken on the Grand Bank of Newfoundland and off the Middle Atlantic States.

## **NEW ENGLAND FISHERIES**

**STATISTICAL AREAS AND SUBAREAS USED IN REPORTING THE CATCH  
LANDED AT CERTAIN MASSACHUSETTS PORTS DURING 1964**



# LANDINGS AT MASSACHUSETTS PORTS

## SUMMARY OF LANDINGS, 1964

SPECIES	BOSTON		GLOUCESTER	
	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES, ROUND . . . . .	-	-	3,998,630	\$39,985
ANGLERFISH, ROUND . . . . .	100	\$5	3,010	93
BUTTERFISH, ROUND . . . . .	390	69	8,795	725
COD, DRAWN:				
WHALE . . . . .	600	144	2,062	141
MARKET . . . . .	6,350,805	484,247	1,649,551	116,595
SCROD . . . . .	6,601,540	569,728	2,150,296	166,424
CUSH, DRAWN . . . . .	1,907,514	156,179	460,171	24,322
EELS, COMMON . . . . .	992,525	64,670	648,614	32,255
FLOUNDERS, ROUND:				
BLACKBACK:				
LARGE . . . . .	1,252,217	123,392	66,950	4,250
SMALL . . . . .	31,170	2,109	39,075	2,116
DAB . . . . .	1,549,537	95,815	1,890,134	87,647
FLUKES:				
LARGE . . . . .	575	56	1,030	105
MEDIUM . . . . .	-	-	305	27
SMALL . . . . .	400	12	115	-
GRAY SOLE . . . . .	462,165	57,315	1,089,321	107,179
LEMON SOLE . . . . .	382,003	51,296	35,590	3,327
YELLOWTAIL . . . . .	2,040,233	101,300	180,920	9,869
HADDOCK, DRAWN:				
LARGE . . . . .	38,228,689	4,276,836	14,350,378	1,461,549
SCROD . . . . .	37,850,963	3,671,633	8,579,810	734,855
SNAPPER . . . . .	182,860	17,426	5,410	255
HAKE:				
RED, ROUND . . . . .	-	-	57,730	1,975
WHITE, DRESSED:				
LARGE . . . . .	26,865	1,797	1,068,170	70,823
MEDIUM . . . . .	995,325	85,764	233,475	12,423
HALIBUT, DRAWN . . . . .	61,605	20,477	77,650	24,303
HERRING, SEA, ROUND . . . . .	-	-	67,290	716
MACKEREL, ROUND . . . . .	75	15	603,617	33,002
OCEAN PERCH, ROUND . . . . .	1,121,335	47,081	29,104,807	1,231,982
POLLOCK, DRAWN . . . . .	6,704,377	417,781	3,520,214	179,898
SALMON, ATLANTIC . . . . .	-	-	8	7
SHAD, ROUND . . . . .	-	-	5,710	312
SHARKS, DRAWN, UNCLASSIFIED . . . . .	1,735	185	2,153	83
SKATES, ROUND . . . . .	4,945	239	33,320	1,299
STRIPED BASS, ROUND . . . . .	-	-	2,057	351
STURGEON, DRAWN . . . . .	810	61	285	32
TILEFISH, DRAWN . . . . .	-	-	2,000	200
TUNA, ROUND, BLUEFIN . . . . .	-	-	6,130	395
WHITING:				
ROUND . . . . .	2,100	45	44,261,350	960,836
DRESSED . . . . .	145,155	8,096	9,080	428
WOLFWISH, DRAWN . . . . .	514,095	29,646	94,370	4,620
UNCLASSIFIED:				
FOR FOOD . . . . .	3,325	253	6,557,495	403,875
SHELLFISH . . . . .	119,185	10,284	5,345	490
FOR INDUSTRIAL USE . . . . .	-	-	2,667,980	27,506
LOBSTERS, NORTHERN . . . . .	-	-	13,000	7,300
SHRIMP . . . . .	-	-	6,925	916
SEA SCALLOP MEATS . . . . .	-	-	609,283	330,228
SQUID . . . . .	165	9	18,180	605
TOTAL . . . . .	107,535,793	10,290,970	124,201,801	6,088,927
SPECIES	NEW BEDFORD		OTHER MASSACHUSETTS PORTS	
	POUNDS	VALUE	POUNDS	VALUE
ANGLERFISH, ROUND . . . . .	-	-	26,740	\$785
BILLFISH, ROUND . . . . .	-	-	250	12
BLUEFISH, ROUND . . . . .	-	-	12,513	1,984
BONITO, ROUND . . . . .	-	-	13,835	2,198
BUTTERFISH, ROUND . . . . .	5,905	\$656	54,051	9,085
COD, DRAWN:				
WHALE . . . . .	2,325	222	1,325	80
LARGE . . . . .	2,008,208	152,072	2,259,553	183,553
MARKET . . . . .	3,875,545	346,503	1,775,369	138,334
SCROD . . . . .	115,095	8,849	330,015	16,582
CUSH, DRAWN . . . . .	4,050	150	38,796	1,031
EELS:				
COMMON . . . . .	-	-	1,400	140
CONGER . . . . .	-	-	490	24

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# NEW ENGLAND FISHERIES

## LANDINGS AT MASSACHUSETTS PORTS SUMMARY OF LANDINGS, 1964 - Continued

SPECIES	NEW BEDFORD		OTHER MASSACHUSETTS PORTS	
	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, ROUND:				
BLACKBACK:				
LARGE . . . . .	5,384,542	\$638,705	2,553,587	\$243,415
SMALL . . . . .	3,654,723	244,135	826,975	59,463
DAB . . . . .	1,631,270	179,423	259,777	13,931
FLUKE:				
LARGE . . . . .	687,580	256,262	8,225	2,654
MEDIUM . . . . .	111,550	27,553	3,058	724
SMALL . . . . .	542,660	151,654	2,710	534
GRAY SOLE . . . . .	685,455	83,086	669,442	69,767
LEMON SOLE . . . . .	1,590,645	357,066	75,591	15,220
YELLOWTAIL . . . . .	65,756,390	4,531,248	2,955,796	233,594
HADDOCK, DRAWN:				
LARGE . . . . .	6,730,620	658,627	2,333,564	235,340
SCROD . . . . .	5,396,345	459,681	601,550	40,173
SNAPPER . . . . .	925	31	-	-
HAKE:				
RED, ROUND . . . . .	-	-	2,818,140	30,815
WHITE, DRESSED:				
LARGE . . . . .	1,850	50	1,950	155
MEDIUM . . . . .	4,800	319	93,668	5,346
HALIBUT, DRAWN:	11,250	3,094	46,194	23,834
HERRING, SEA, ROUND	160,280	3,409	1,735,399	32,829
MACKEREL, ROUND:	472,400	24,159	1,649,343	115,048
MENHADEN, ROUND:	-	-	2,050	35
OCEAN PERCH, ROUND:	-	-	105,527	1,457
OCEAN POUT, ROUND:	-	-	2,453,115	32,625
POLLOCK, DRAWN:	80,130	3,447	253,066	11,372
SCUP OR PORGY, ROUND:				
MEDIUM . . . . .	390,510	28,359	2,035	247
UNCLASSIFIED . . . . .	-	-	94,759	8,231
SEA BASS, ROUND:				
MEDIUM . . . . .	5,305	508	420	144
UNCLASSIFIED . . . . .	-	-	4,714	1,035
SHAD, ROUND . . . . .	-	-	33,026	2,494
SHARKS, DRAWN, UNCLASSIFIED . . . . .	4,064	156	1,165	56
SKATE, ROUND . . . . .	-	-	23,995	833
STRIPED BASS, ROUND:	-	-	80,407	12,392
STURGEON, DRAWN	805	78	1,508	251
SWORDFISH, DRESSED:	870,522	308,396	-	-
TAUTOG, ROUND . . . . .	60	2	10,042	217
TILEFISH, DRAWN . . . . .	166,915	16,440	38,235	2,667
TUNA, ROUND:				
BLUDEFIN . . . . .	1,338,074	104,292	714,019	36,795
SKIPJACK . . . . .	865,840	71,298	288,200	12,971
WHITING:				
ROUND . . . . .	-	-	12,039,975	254,389
DRESSED . . . . .	-	-	903,455	39,032
WOLFGHISH, DRAWN . . . . .	2,270	78	56,203	2,293
UNCLASSIFIED:				
FOR FOOD . . . . .	-	-	117,060	9,143
SPAWN . . . . .	-	-	8,291	909
FOR INDUSTRIAL USE . . . . .	18,351,568	171,719	3,394,115	49,616
LOBSTERS, NORTHERN . . . . .	1,681,511	891,445	-	-
SEA SCALLOP MEATS . . . . .	12,929,512	7,022,775	180,390	94,122
SQUID . . . . .	1,045	77	214,750	10,554
TOTAL . . . . .	135,722,564	16,746,014	42,170,056	2,062,530
TOTAL				
1964				
SPECIES	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES, ROUND . . . . .	3,998,630	\$39,985	10,896,830	\$102,836
ANCHOVIES, ROUND . . . . .	-	-	55,128	819
ANGLERFISH, ROUND . . . . .	29,850	683	30,745	1,400
BILLFISH, ROUND . . . . .	250	12	5,290	265
BLUEFISH, ROUND . . . . .	12,513	1,984	11,422	1,684
BONITO, ROUND . . . . .	13,835	2,198	47,739	4,383
BUTTERFISH, ROUND . . . . .	69,141	10,535	762,905	89,479
COD, DRAWN:				
WHALE . . . . .	6,512	587	15,739	1,542
LARGE . . . . .	12,268,325	936,467	11,823,377	955,462
MARKET . . . . .	14,408,750	1,219,982	15,966,396	1,364,277
SCROD . . . . .	2,820,795	206,532	3,669,328	283,500
CUSK, DRAWN . . . . .	1,663,995	98,107	1,263,762	86,627

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# NEW ENGLAND FISHERIES

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## LANDINGS AT MASSACHUSETTS PORTS

### SUMMARY OF LANDINGS, 1964 - Continued

SPECIES	TOTAL			
	1964		1963	
	POUNDS	VALUE	POUNDS	VALUE
EELS:				
COMMON . . . . .	1,600	\$145	-	-
CONGER . . . . .	490	24	2,635	\$62
FLOUNDERS, ROUND:				
BLACKBACK:				
LARGE . . . . .	9,257,296	1,009,762	7,255,526	1,007,617
SMALL . . . . .	4,551,943	307,823	4,466,300	324,338
DAB . . . . .	5,530,718	376,816	4,601,682	352,612
FLUKE:				
LARGE . . . . .	697,410	251,078	711,475	289,012
MEDIUM . . . . .	114,913	28,306	520,413	162,539
SMALL . . . . .	545,905	152,207	1,049,529	259,102
GRAY SOLE . . . . .	2,906,363	317,347	2,364,250	288,285
LEMON SOLE . . . . .	2,083,829	426,909	1,957,718	487,971
YELLOWTAIL . . . . .	70,933,339	4,876,011	68,873,761	4,575,587
HADDOCK, DRAWN:				
LARGE . . . . .	61,643,251	6,632,352	55,730,392	6,261,963
SCROD . . . . .	52,426,668	4,906,342	50,030,643	5,164,656
SNAPPER . . . . .	189,195	17,712	313,765	16,164
HAKE:				
RED, ROUND . . . . .	2,875,870	32,790	5,067,852	54,822
WHITE, DRESSED . . . . .				
LARGE . . . . .	1,096,835	72,825	606,925	44,812
MEDIUM . . . . .	1,327,268	103,852	1,278,265	80,686
HALIBUT, DRAWN . . . . .	196,699	71,698	154,402	57,166
HERRING, SEA, ROUND . . . . .	1,952,969	36,954	1,650,225	34,785
MACKEREL, ROUND . . . . .	2,725,435	172,224	1,920,230	184,170
MENDACE, ROUND . . . . .	2,050	35	344,620	3,503
OCEAN PERCH, ROUND . . . . .	30,331,669	1,280,520	44,386,697	2,210,985
OCEAN POUT, ROUND . . . . .	2,453,115	32,625	-	-
POLLOCK:				
ROUND . . . . .	-	-	306,701	11,071
DRAWN . . . . .	10,557,807	612,498	10,420,294	584,925
SALMON, ATLANTIC . . . . .	8	7	-	-
SCUP OR PORGY, ROUND:				
LARGE . . . . .	-	-	9,395	825
MEDIUM . . . . .	392,545	28,606	617,575	34,565
SMALL . . . . .	-	-	100	4
UNCLASSIFIED . . . . .	94,759	8,231	114,512	8,625
SEA BASS, ROUND:				
LARGE . . . . .	-	-	95	9
MEDIUM . . . . .	5,725	652	8,009	644
SMALL . . . . .	-	-	200	10
UNCLASSIFIED . . . . .	4,714	1,035	8,125	1,182
SHAD, ROUND . . . . .	38,736	2,806	20,931	1,220
SHARKS, DRAWN, UNCLASSIFIED . . . . .	9,117	480	20,858	948
SKATES, ROUND . . . . .	62,260	2,370	51,095	1,981
STRIPED BASS, ROUND . . . . .	62,474	12,743	63,149	12,375
STURGEON, DRAWN . . . . .	3,408	422	4,585	496
SWIMMID, DRESSED . . . . .	870,524	308,596	1,294,746	399,865
TAUTOG, ROUND . . . . .	10,102	219	6,109	271
TILEFISH, DRAWN . . . . .	207,150	19,307	85,080	12,932
TUNA, ROUND:				
BLUDEFIN . . . . .	2,058,223	143,482	4,924,034	267,750
SKIPJACK . . . . .	1,154,040	84,269	1,587,585	78,690
UNCLASSIFIED . . . . .	-	-	8,086	1,330
WHITING:				
ROUND . . . . .	56,303,425	1,215,270	61,249,309	1,427,206
DRESSED . . . . .	1,057,690	47,556	3,322,129	135,666
WOLFGFISH, DRAWN . . . . .	666,938	36,637	598,024	37,413
UNCLASSIFIED:				
FISH FOOD . . . . .	6,677,880	413,271	4,773,389	301,115
FOR HUMAN CONSUMPTION . . . . .	132,021	11,683	301,790	24,770
FOR INDUSTRIAL USE . . . . .	24,413,663	248,841	24,036,452	242,634
LOBSTERS, NORTHERN . . . . .	1,694,511	898,745	1,405,174	657,663
SHRIMP . . . . .	6,925	916	23,066	2,952
SEA SCALLOP MEATS . . . . .	13,719,185	7,447,125	16,607,715	7,708,620
SQUID . . . . .	234,140	11,245	1,755,990	94,549
TOTAL . . . . .	409,630,214	35,190,441	431,682,287	36,815,673

NOTE:—THIS REPORT INCLUDES ALL LANDINGS IN MASSACHUSETTS EXCEPT THE INSHORE CATCH OF SHELLFISH, ETC., (PRINCIPALLY LOBSTERs, CLAMS, IRISH MOSS, SEA MUSSELS, AND BAY SCALLOPS) AND LESSER QUANTITIES OF FINFISH (ALEWIVES, STRIPED BASS, MACKEREL, ETC.). IN 1963, THE LANDINGS SHOWN ABOVE ACCOUNTED FOR 97.7 PERCENT OF THE MASSACHUSETTS TOTAL CATCH. THE WEIGHTS OF FISH REPRESENT THE FRESH FISH AS LANDED AND THE VALUES ARE THOSE RECEIVED BY THE FISHERMEN. THE GRADES OR SIZES GIVEN FOR CERTAIN SPECIES ARE THOSE RECOGNIZED IN THE TRADE. "WHALE" COD ARE CLASSIFIED AS THOSE WEIGHING OVER 25 POUNDS; "LARGE" COD, 10 TO 25 POUNDS; "MARKET" COD, 2-1/2 TO 10 POUNDS; AND "SCROD" COD, 1-1/2 TO 2-1/2 POUNDS. "LARGE" BLACKBACK FLOUNDERS, 1 TO 3-1/2 POUNDS; AND "SMALL" BLACKBACK FLOUNDERS, 3/4 TO 1 POUND. "LARGE" FLUKE, OVER 4 POUNDS; "MEDIUM" FLUKE, 3 TO 4 POUNDS; AND "SMALL" FLUKE, 1-1/2 TO 3 POUNDS. "LARGE" HADDOCK ARE THOSE WEIGHING OVER 2-1/2 POUNDS; SCROD HADDOCK, 1-1/2 TO 2-1/2 POUNDS; AND "SNAPPER" HADDOCK, UNDER 1-1/2 POUNDS. "LARGE" HAKE ARE THOSE WEIGHING OVER 6 POUNDS, AND "MEDIUM" HAKE, UNDER 6 POUNDS. THE FOLLOWING TERMS INDICATE THE CONDITION IN WHICH LANDED: "ROUND," AS CAUGHT; "DRAWN," EVISCERATED; AND "DRESSED," EVISCERATED AND HEADED. THE CATEGORY "OTHER MASSACHUSETTS PORTS" INCLUDES PLYMOUTH, PROVINCETOWN, AND OTHER CAPE COD PORTS.

# NEW ENGLAND FISHERIES

## LANDINGS AT MASSACHUSETTS PORTS

### SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964

GEAR AND SUBAREA	CRAFT FISHING	TRIPS	DAYS ABSENT	DAYS FISHED		COD, DRAWN		CUSK, DRAGN		FLOUNDERS, ROUND BLACK- BACK	
				NUMBER	NUMBER	POUNDS	LARGE	MARKEt	POUNDS	CUSK, DRAGN	
LINE, TRANS-SASSACUTTS . . . . .	38	999.0	916	350.4	13,699	123,475	36,335	190,950	202,025	-	
EASTERN GROUPS . . . . .	15	159.0	176	118.6	55,173	65,170	16,730	-	-	-	
INNER GROUPS . . . . .	30	1,344.0	1,464	766.1	61,373	193,543	71,130	-	-	-	
WEST SIDE, SOUTH CHANNEL . . . . .	1	3.0	3	.9	-	-	-	-	-	-	
SOUTHERN MASSACHUSETTS . . . . .	-	-	-	-	-	-	-	-	-	-	
TOTAL . . . . .	1/ 64	2,415.0	2,551	1,236.2	663,047	383,628	60,215	428,026	48,715	-	
HANDINES:											
EASTERN MASSACHUSETTS . . . . .	81	2,002.0	2,002	866.2	1,107,656	4,495	100	200	2,428	-	
WEST SIDE, SOUTH CHANNEL . . . . .	40	1,520.0	1,520	760.0	-	286,900	-	4,765	2,642	-	
TOTAL . . . . .	1/ 120	3,522.0	3,522	1,646.2	1,110,592	291,395	100	4,965	5,070	-	
HARPOONS:											
EASTERN MASSACHUSETTS . . . . .	4	5.0	6	6	-	-	-	-	-	-	
NANTUCKET SHOALS & LIGHTSHIP . . . . .	1	14.0	6	3.5	-	-	-	-	-	-	
OFF NO MANS LAND . . . . .	5	14.0	89	50.0	-	-	-	-	-	-	
TOTAL . . . . .	1/ 9	20.0	101	54.7	-	-	-	-	-	-	
LONGLINES:											
CENTRAL: SOUTHEAST GEORGES . . . . .	4	10.0	93	61.5	-	-	-	-	-	-	
NANTUCKET SHOALS & LIGHTSHIP . . . . .	11	42.0	335	240.0	-	-	-	-	-	-	
OFF NO MANS LAND . . . . .	2	30.0	37	27.5	-	-	-	-	-	-	
OFF LONG ISLAND . . . . .	8	23.0	194	121.0	-	-	-	-	-	-	
TOTAL . . . . .	1/ 12	79.0	659	459.0	-	-	-	-	-	-	
OTTER TRAWLS:											
SOUTHWEST GRAND BANKS . . . . .	1	1	2	4.5	-	-	-	-	-	-	
ST. PIERRE GRAND BANK . . . . .	1	1	4	2.0	-	-	-	-	-	-	
EAST GULF OF ST. LAWRENCE . . . . .	11	21.1	301	69.1	-	-	-	-	-	-	
NORTH GULF OF ST. LAWRENCE . . . . .	11	24.7	337	67.7	50	925	-	-	-	12	
SOUTH GULF OF ST. LAWRENCE . . . . .	5	2.3	229	6.2	50	25	-	-	-	13	
WILDLF CAFE BRETON . . . . .	12	10.4	142	53.1	-	-	-	-	-	-	
MIDDLE BANK, CAFÉ BRETON . . . . .	6	5.5	143	30.0	1,207	100	-	-	-	-	
BANGUEREAU . . . . .	12	6.6	167	46.9	-	10,125	10,125	-	-	-	
CANSO . . . . .	6	4.4	68	10.3	-	1,100	1,100	-	-	-	
MIDDLE GROUND . . . . .	7	2.2	43	10.3	-	220	2,750	-	-	-	
SOUTHEAST SABLE ISLAND BANK . . . . .	7	1.1	1	4.5	-	-	-	-	-	-	
EASTERN GROUND . . . . .	11	10.2	136	30.1	-	-	-	-	-	-	
EASTERN NOVA SCOTIA . . . . .	17	16.6	220	60.1	785	7,216	600	1,723	-	-	
CENTRAL NOVA SCOTIA . . . . .	20	23.4	292	68.6	2,043	6,340	-	-	-	-	
EASTERN BROWNS & LA HAVE . . . . .	44	32.0	271	147.6	67,076	104,057	400	1,645	-	-	
SOUTHERN NOVA SCOTIA . . . . .	63	35.7	332	148.2	36,393	58,375	21,905	36,153	-	75	
WESTERN BROWNS, SCOTIA . . . . .	63	142.1	1,293	821.2	689,336	10,190	10,190	8,483	1,200	-	
SOUTHERN BROWNS . . . . .	26	33.1	169	69.4	60,448	118,535	88,707	139,448	15,996	-	
SOUTHERN BROWNS, N.S.C. . . . .	19	1.4	329	39.9	291	126,629	42,595	42,595	23,957	-	
SOUTHERN BROWNS, N.B. . . . .	31	52.8	244	49.4	300	126,338	16,570	16,570	6,255	5,925	
SOUTHERN BAY OF FUNDY . . . . .	19	13.7	116	70.8	38,425	46,008	17,552	17,552	5,177	5,177	

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

# LANDINGS AT MASSACHUSETTS PORTS

## SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	CRAFT FISHING	TRIPS	DAYS ABSENT	DAYS FIshed	COD, DRAWN		CUSK, DRAWN	FLOUNDERS, BLACK- BACK
					NUMBER	NUMBER		
OTTER TRAWLS - CONTINUED:								
CENTRAL NAME	2	8	602	276.6	71,919	143,494	47,641	42,314
WESTERN NAME	46	340	6,975	4,086.4	647,861	1,670,074	578,562	3,260
EASTERN MASSACHUSETTS	175	5,975	3,590	3,486.4	126,425	120,032	32,043	2,171,300
INNER GROUNDS	65	106	2,442	4,036.9	1,746,999	3,210,710	819,336	71,475
WEST SIDE, SOUTH CHANNEL	202	1,693	3,712	4,724	3,191.5	1,671,221	1,375,377	211,988
EAST SIDE, SOUTH CHANNEL	174	712	2,011	3,272	2,728,155	623,818	2,492,102	223,392
NORTHERN EDGE & NORTHEAST PEAK	107	380	6,652	6,056	3,821.5	1,775,064	1,332,302	226,952
CENTRAL & SOUTHEAST GEORGES	132	2,211	6,211	6,211	1,080.9	269,068	227,890	72,240
SOUTHWEST GEORGES *	163	1,261	6,755	4,027.2	77,628	1,453,400	56,525	1,490
NANTUCKET ISLAND & LIGHTSHIP	143	9,535	2,569	1,1	17,658	1,490	3,125	4,554
SOUTHERN MASSACHUSETTS *	18	320	9	536	302.4	2,262	3,205	56,050
RHODE ISLAND SHORE	41	122	80.9	536	70.5	1,100	1,300	639,462
OFF LONG ISLAND					303.5	4,670	3,220	17,375
TOTAL	1/ 406	16,325.0	46,529	27,557.8	10,354,494	13,527,820	2,759,920	13,674,814
FLOATING TRAPS, EASTERN MASSACHUSETTS	6	284.0	284	284.0	-	-	-	-
SINK GILL NETS, EASTERN MASSACHUSETTS	7	432.0	432	432.0	126,474	204,060	415	1,540
DRIFT GILL NETS, EASTERN MASSACHUSETTS	14	147.0	147	147.8	-	-	-	-
WEST SIDE, SOUTH CHANNEL	1	38.0	35	29.0	-	-	-	-
TOTAL	1/ 14	205.0	205	147.8	-	-	-	-
PURSE SEINES:								
EASTERN MASSACHUSETTS *	7	64.0	64	26.7	-	-	-	-
WEST SIDE, SOUTH CHANNEL *	1	3.0	3	1.6	-	-	-	-
OFF NO MANS LAND	2	4.0	18	1.6	-	-	-	-
OFF LONG ISLAND	5	13.0	51	15.2	-	-	-	-
TOTAL	1/ 11	104.0	160	46.6	-	-	-	-
SCALLOP DREDGES:								
WESTERN BROWNS	2	3.0	30	21.5	-	-	-	-
WESTERN NAME	12	195.5	4	4.0	-	-	-	-
EASTERN MASSACHUSETTS	1	195.5	223	83.4	-	-	-	-
INNER GROUNDS	1	193.5	72.4	56.0	-	-	-	-
INNER GROUNDS	23	193.1	72.4	56.0	-	-	-	-
WEST SIDE, SOUTH CHANNEL	41	176.3	1,405	1,111.8	-	-	-	-
EAST SIDE, SOUTH CHANNEL	22	84.0	767	548.7	-	-	-	-
CENTRAL & SOUTHEAST GEORGES	41	172.0	1,510	1,120.5	-	-	-	-
SOUTHWEST GEORGES *	43	348.3	2,687	2,247.1	-	-	-	-
NANTUCKET ISLAND & LIGHTSHIP	39	174.6	1,309	1,009.9	-	-	-	-
RHODE ISLAND SHORE	1	2.0	4	1.8	-	-	-	-
OFF LONG ISLAND	15	31.5	233	189.5	-	-	-	-
TOTAL	1/ 64	1,291.0	9,098	6,904.6	230	485	145	57,855

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

## NEW ENGLAND FISHERIES

## LANDINGS AT MASSACHUSETTS PORTS

SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

(CONTINUED ON NEXT PAGE)

# LANDINGS AT MASSACHUSETTS PORTS

## SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	FLOUNDERS, ROUND - CONTINUED						HADDOCK, DRAWN			HAKE	
	DAB	FLUKE	GRAY SOLE	LEMON SOLE	YELLOW-TAIL		SCROD	SNAPPER		WHITE, DRESSED LARGE	
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	
OTTER TRAILS - CONTINUED:											
WESTERN NARROW CHANNEL	88,005	-	168,720	40	323,682	247,988	-	-	7,180	171,773	
INNER GROUPS	50,015	5,256	834,672	32,373	2,799,647	2,048,633	-	-	300,500	273,464	
INNER CHANNEL	-	63,153	1,120	3,466	922,905	322,442	-	-	-	67,713	
EAST SIDE SOUTH CHANNEL	628,344	11,747	747,274	303,115	1,257,789	16,262,996	9,672,042	20,605	306,611	-	
EAST SIDE NORTH CHANNEL	2,440,328	9,593	403,522	426,411	2,428,398	12,877,050	6,541,729	567	111,131	-	
NORTHERN EDGE & NORTHEAST PEAK	472,391	600	34,764	183,762	1,221,563	8,773,378	13,107,695	41,538	-	32,519	
CENTRAL & SOUTHEAST GEORGES	300,334	71,250	722,307	2,159,596	6,101,796	8,726,052	8,726,052	46,575	-	5,516	
SOUTHWEST GEORGES	32,137	15,420	14,674	1,254,471	2,412,191	1,425,466	1,425,466	-	-	525	
NANTUCKET SHOALS & LIGHTSHIP	10,380	435,570	131,540	233,120	25,465,405	925,386	1,153,153	-	-	-	
OFF LONG ISLAND	3,921	7,707	14,194	45,128	10,775	1,465,070	1,125	2,557,150	-	-	
SOUTHERN MASSACHUSETTS	-	197,695	1,940	1,275	7,	491,475	-	-	-	-	
PHOENIX ISL. AND SHORE	-	516,145	4,402	-	390,250	80	200	-	-	-	
TOTAL.	5,517,056	1,354,181	2,902,261	2,054,863	70,957,817	59,045,742	52,292,703	169,195	2,875,115	1,054,650	
SINK GILL NETS, EASTERN MASSACHUSETTS	-	-	-	-	-	225,340	-	-	-	42,650	
SCALLOP DRIFTERS										-	
WESTERN NARROW CHANNEL	-	-	-	-	2,380	700	-	-	-	-	
INNER GROUPS	1,775	-	-	1,260	1,000	6,010	125	55	-	-	
WEST SIDE SOUTH CHANNEL	-	-	-	-	1,000	-	-	-	-	-	
EAST SIDE SOUTH CHANNEL	1,1220	-	-	1,700	787	925	-	-	-	-	
NORTHERN EDGE & NORTHEAST PEAK	-	-	-	-	6,940	10,000	-	425	-	-	
CENTRAL & SOUTHEAST GEORGES	-	-	-	-	2,460	12,940	-	400	-	-	
SOUTHWEST GEORGES	625	2,000	-	975	628	12,500	-	-	-	-	
NANTUCKET SHOALS & LIGHTSHIP	-	-	-	50	1,330	16,175	-	190	-	-	
TOTAL.	13,600	2,375	-	3,985	16,525	60,720	125	1,070	-	-	
POUND NETS:											
EASTERN MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-	
WEST SIDE SOUTH CHANNEL	-	1,629	38	-	-	-	-	-	400	-	
TOTAL.	-	1,667	-	-	-	-	-	-	400	-	
GRAND TOTAL.	5,530,718	1,359,226	2,906,383	2,063,629	70,933,339	61,643,251	52,428,666	169,195	2,825,670	1,098,835	

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

## NEW ENGLAND FISHERIES

## LANDINGS AT MASSACHUSETTS PORTS

## SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	HAKE - CONTINUED WHITE, DRESSED	MACKEREL, ROUND	OCEAN PERCH, ROUND	POLLOCK, DRAWN	SWORDFISH, DRESSED	TILEFISH, DRAWN	TUNA, ROUND
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
LINE TRAPS:							
EASTERN MASSACHUSETTS, . . . . .	1,605	2,35	-	-	11,965	-	-
INNER BORDERS, . . . . .	14,455	11,435	-	-	10,455	-	-
WEST SIDE, SOUTH CHANNEL, . . . . .	20,427	30,142	-	-	33,155	-	-
TOTAL, . . . . .	36,497	51,710	-	-	47,417	-	-
HANDLINES:							
EASTERN MASSACHUSETTS, . . . . .	-	-	-	-	130,175	-	-
WEST SIDE, SOUTH CHANNEL, . . . . .	-	3,540	-	-	66,163	-	-
TOTAL, . . . . .	963	3,540	-	-	198,338	-	-
HARPOONS:							
EASTERN MASSACHUSETTS, . . . . .	-	-	-	-	-	4,221	-
NANTUCKET SHOALS & LIGHTSHIP, . . . . .	-	-	-	-	-	87,396	-
OFF NO MAN'S LAND, . . . . .	-	-	-	-	-	-	-
TOTAL, . . . . .	-	-	-	-	91,617	-	-
LONGLINES:							
CENTRAL, SOUTHEAST GEORGES,	-	-	-	-	-	-	-
NANTUCKET SHOALS & LIGHTSHIP, . . . . .	-	-	-	-	-	-	-
OFF NO MAN'S LAND, . . . . .	-	-	-	-	-	-	-
OFF LONG ISLAND, . . . . .	-	-	-	-	-	-	-
TOTAL, . . . . .	-	-	-	-	-	-	-
OTTER TRAPS:							
SOUTHEAST, SABLE DOWNS BANKS, . . . . .	-	105	-	-	49,400	-	-
ST. PIERRE BANK, . . . . .	-	1,942	-	-	62,800	-	-
EAST GULF OF ST. LAWRENCE, . . . . .	65	1,942	-	-	90,920	40	-
NORTH GULF OF ST. LAWRENCE, . . . . .	65	3,479	-	-	77,972	-	-
SOUTH GULF OF ST. LAWRENCE, . . . . .	-	-	-	-	384,100	-	-
NORTHWEST CAPE, BRETON, . . . . .	375	2,107	-	-	2,048,966	400	-
MISAINIE BANK, . . . . .	-	1,324	-	-	1,074,619	520	-
BANGUEREAU, . . . . .	250	1,931	-	-	1,230,420	100	-
CANSO, GROUND, . . . . .	-	-	-	-	608,742	5,000	-
MIDDLE GROUND, . . . . .	-	144	-	-	107,300	33	-
SOUTHWEST SABLE ISLAND BANK, . . . . .	-	58	-	-	26,600	-	-
HORSESHOE GROUND, . . . . .	-	2,335	-	-	1,571,144	63,715	-
EASTERN NOVA SCOTIA, . . . . .	1,125	2,332	-	-	2,025,112	81,655	-
WESTERN NOVA SCOTIA, . . . . .	1,161	1,172	-	-	62,812	17,925	-
EAST COAST, NOVA SCOTIA, . . . . .	1,501	1,174	-	-	7,995	2,902	117,652
SOUTHERN NOVA SCOTIA, . . . . .	975	2,392	-	-	1,767,680	217,385	-
WESTERN BRUNS, . . . . .	10,579	13,320	-	-	413,392	983,401	-
WESTERN NOVA SCOTIA, . . . . .	54,175	992	-	-	467,405	418,725	-
SOUTHERN BAY OF FUNDY, . . . . .	13,687	491	-	-	35,670	37,500	-

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

# NEW ENGLAND FISHERIES

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## LANDINGS AT MASSACHUSETTS PORTS

### SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	HAKE - CONTINUED	HALIBUT, DRIFSEN	MACKEREL, ROUND	MEHNAKEN, ROUND	OCEAN PERCH, ROUND	POLLOCK, DRAWN	SCUP OR FORGY, ROUND	TILEFISH, DRAWN	TUNA, ROUND
	POUNDS								
OTTER TRAPS - CONTINUED:									
NORTH END OF FUNDY . . . . .	120,694	1,985			98,165	288,052			
EASTERN MAINE . . . . .	20,139	1,100			7,320	-			
WESTERN MAINE . . . . .	45,412	9,367	1,506		376,039	129,721			
INNER GROUNDS . . . . .	204,238	9,361	4,958		800,239	1,254,150	23,380		
WEST SIDE, SOUTH CHANNEL . . . . .	56,961	4,958			606,722	419,045			
EAST SIDE, SOUTH CHANNEL . . . . .	354,038	17,846	75		2,022,698	1,351,923	780		
NORTHERN EDGE & NORTHEAST PEAK . . . . .	294,675	26,060			1,010,360	2,284,980			
CENTRAL & SOUTHEAST GEORGES . . . . .	70,997	18,723			86,106	1,984,320			
SOUTHWEST GEORGES . . . . .	1,025	15,276			31,532	279,289			
NANTUCKET SHOALS & LIGHTSHIP . . . . .	2,458				650	23,190			
OFF NARRAGANSSETT BAY . . . . .	5,950	1,775			640	9,060	9,455		
SOUTHERN MASSACHUSETTS . . . . .	5,540	116			240	41,095	35,995		
RHODE ISLAND, SHORE . . . . .	8				-	35,118	37,000		
OFF LONG ISLAND . . . . .	-				-	21,050	21,050		
TOTAL . . . . .	1,299,753	140,608	1,561		30,331,522	10,087,129	461,470		207,150
FLOATING TRAPS, EASTERN MASSACHUSETTS . . . . .	-	-	241,357		-	-	-	-	-
SINK GILL NETS, EASTERN MASSACHUSETTS . . . . .	-	597			-	177,150			
DRIFT GILL NETS, EASTERN MASSACHUSETTS . . . . .	-	-		60,233	-	-	-	-	-
WEST SIDE, SOUTH CHANNEL . . . . .	-	-		7,081	-	-	-	-	-
TOTAL . . . . .	-	-	87,314		-	-	-	-	-
PURSE SEINES, EASTERN MASSACHUSETTS . . . . .	-	-	869,935		-	-	-	-	656,050
WEST SIDE, SOUTH CHANNEL . . . . .	-	-	5,200		-	-	-	-	506,000
OFF NO. 1 MANS LAND . . . . .	-	-	459,200		-	-	-	-	1,566,387
OFF LONG ISLAND . . . . .	-	-	-		-	-	-	-	2,726,437
SCALLOP DREDGES:									
EASTERN MASSACHUSETTS . . . . .	35	14			-	-	-	-	-
NORTHERN EDGE & NORTHEAST PEAK . . . . .	-	30			-	-	-	-	-
SOUTHEAST GEORGES . . . . .	-	-	6,000		-	-	-	-	-
TOTAL . . . . .	35	44	8,000		-	-	-	-	-

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

# NEW ENGLAND FISHERIES

## LANDINGS AT MASSACHUSETTS PORTS

### SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	HAKE CONTINUED		MACKEREL, ROUND	MEHADIN, ROUND	OCEAN PERCH, ROUND	POLLOCK, DRAWN	SCUP OR PORGY, ROUND	SWORDFISH, DRAWN	TILEFISH, DRAWN	TUNA, ROUND
	WHITE, DRESSED	HALIBUT, DRAWN								
	POUNDS	POUNDS								
POUND NETS:										
EASTERN MASSACHUSETTS	-	-	1,001,116	51,822	2,050	-	33,693	22,696	-	345,263
WEST SIDE, SOUTH CHANNEL	-	-	-	-	-	-	-	2,976	-	906
SOUTHERN MASSACHUSETTS	-	-	-	-	-	-	-	-	-	-
TOTAL, . . . . .	-	-	1,052,948	2,050	-	-	33,693	25,834	-	346,169
GRAND TOTAL, . . . . .	1,327,268	196,699	2,725,435	2,050	30,331,669	10,557,807	487,304	870,522	207,150	3,212,263
GEAR AND SUBAREA	WHITING		WOLFFISH, DRAWN	SEA TROUT, DRAWN	SCALLOP MEATS	FOR FOOD	UNCLASSIFIED	FOR INDUS- TRIAL USE	OTHER SPECIES	TOTAL
	ROUND	DRESSED								
	POUNDS	POUNDS								
LINE TRAILS, MASSACHUSETTS:										
EASTERN MASSACHUSETTS	-	-	-	-	550	-	236,480	-	720	682,660
INNER CHANNEL	-	-	-	-	720	-	550	-	1,665	1,029,593
WEST SIDE, SOUTH CHANNEL	-	-	325	3,413	-	-	825	-	18,041	2,430,720
SOUTHERN MASSACHUSETTS	-	-	-	-	-	-	-	-	-	1,140
TOTAL, . . . . .	-	-	325	4,683	-	-	237,855	-	20,646	4,344,343
HAND LINES:										
EASTERN MASSACHUSETTS	-	-	-	-	-	-	342,940	-	51,432	539,094
WEST SIDE, SOUTH CHANNEL	-	-	-	-	1,030	-	-	-	674	1,713,147
TOTAL, . . . . .	-	-	-	-	1,030	-	342,940	-	52,305	2,252,241
HARPOONS:										
EASTERN MASSACHUSETTS	-	-	-	-	-	-	-	-	-	3,462
NANTUCKET SHOALS & LIGHTSHIP	-	-	-	-	-	-	-	-	-	4,221
OFF NO MANS LAND	-	-	-	-	-	-	-	-	-	87,396
TOTAL, . . . . .	-	-	-	-	-	-	-	-	-	95,079
LONGLINES:										
CENTRAL & SOUTHEAST GEORGES	-	-	-	-	-	-	-	-	-	232
NANTUCKET SHOALS & LIGHTSHIP	-	-	-	-	-	-	-	-	-	425,153
OFF NO MANS LAND	-	-	-	-	-	-	-	-	-	44,438
OFF LONG ISLAND	-	-	-	-	-	-	-	-	-	332,761
TOTAL, . . . . .	-	-	-	-	-	-	-	-	-	914,496

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

## LANDINGS AT MASSACHUSETTS PORTS

### SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

GEAR AND SUBAREA	WHITING		WOLFI SH, DRAWN	POUNDS	SEA SCALLOP MEATS	POUNDS	UNCLASSIFIED		OTHER SPECIES	TOTAL POUNDS
	ROUND	DRESSED					FOR FOOD	POUNDS	FOR INDUS- TRIAL USE	
OTTER TRAPS:										
SOUTHWEST GRAND BANKS . . . . .										48,505
EAST PIERRE BANK . . . . .										62,462
EAST GULF OF ST. LAWRENCE . . . . .										4,002,064
NORTH GULF OF ST. LAWRENCE . . . . .										4,782,749
NORTHEAST CAPE BRETON . . . . .										384,100
MISAINI BANK . . . . .										
BANQUEREAU . . . . .										1,083,341
CANDE GROUNDS . . . . .										1,422,306
MIDDLE GROUNDS . . . . .										1,445,905
SOUTHEAST TABLE ISLAND BANK . . . . .										159,990
HORSESHOE GROUND . . . . .										26,158
EASTERN NOVA SCOTIA . . . . .										1,691,439
CENTRAL NOVA SCOTIA . . . . .										2,465,747
EASTERN BROWNS & LA HAVE . . . . .										2,751,327
SOUTHERN NOVA SCOTIA . . . . .										2,802,573
WESTERN BROWNS . . . . .										3,025,377
WESTERN GROUNDS . . . . .										3,246,310
WESTERN GROUNDS & FUNDY . . . . .										3,455,518
SOUTHERN BAY OF FUNDY . . . . .										500,179
NORTHERN BAY OF FUNDY . . . . .										130
EASTERN MAINE . . . . .										906,547
CENTRAL MAINE . . . . .										592,506
WESTERN MAINE . . . . .										31,900
WESTERN MASSACHUSETTS . . . . .										12,234,315
INNER GROUPS . . . . .										62,901,976
INNER GROUPS . . . . .										3,930,231
INNER GROUPS . . . . .										3,148
INNER GROUPS . . . . .										57,953
INNER GROUPS . . . . .										1,967,215
INNER GROUPS . . . . .										33,351,209
INNER GROUPS . . . . .										13,704
INNER GROUPS . . . . .										21,825
INNER GROUPS . . . . .										32,701,203
NORTHERN EDGE & NORTHEAST PEAK . . . . .										4,053,619
NORTHERN EDGE & NORTHEAST PEAK . . . . .										7,735,315
CENTRAL & SOUTHEAST GEORGES . . . . .										1,634,363
CENTRAL & SOUTHEAST GEORGES . . . . .										135,500
CENTRAL & SOUTHEAST GEORGES . . . . .										86,942
CENTRAL & SOUTHEAST GEORGES . . . . .										35,900,137
CENTRAL & SOUTHEAST GEORGES . . . . .										30,510,194
CENTRAL & SOUTHEAST GEORGES . . . . .										1,416,460
CENTRAL & SOUTHEAST GEORGES . . . . .										512,740
CENTRAL & SOUTHEAST GEORGES . . . . .										953,619
OFF LONG ISLAND . . . . .										695
TOTAL. . . . .	56,286,585	1,037,365	660,040	25	5,774,590	24,529,013	4,582,335	375,091,491		
FLOATING TRAPS, EASTERN MASSACHUSETTS . . . . .										633
SINK GILL NETS, EASTERN MASSACHUSETTS . . . . .				320	20	44,865	-			287,195
DRIFT GILL NETS, EASTERN MASSACHUSETTS . . . . .				-	-	-	277,155	-	2,085	1,080,616
WEST SIDE SOUTH CHANNEL . . . . .				-	-	-	-			867
TOTAL. . . . .				190	-	-	-			126
				190	-	-	-			993
SEE FOOTNOTES AT END OF TABLE.										89,072

(CONTINUED ON NEXT PAGE)

## NEW ENGLAND FISHERIES

## LANDINGS AT MASSACHUSETTS PORTS

## SUMMARY OF FISHERY - BY GEAR AND SUBAREA, 1964 - Continued

/ EXCLUSIVE OF DUPLICATION.

TO ROLL WEIGHT BY MULTIPLYING THE FOLLOWING FACTORS: COD, 1.15; POLLOCK, 1.15; HAKE, DRAWDOWN 1.15; WHITING, DRESSED 1.66; AND WOLFFISH, SEA BASS, 1.75. THE INSURERS' CLAMS, CRABS AND OTHER SHELL FISH, ETC., ARE COMPUTED ON THE BASIS OF ONE HUNDRED PER CENT OF THE WEIGHT OF THE FISH. THE INSURERS' SQUID, CROWN CONCH, SPONGE, ETC., ARE COMPUTED ON THE BASIS OF ONE HUNDRED SEVEN PER CENT OF THE WEIGHT OF THE FISH. THE INSURERS' TUNA, BONEFISH, GOLDFISH, ETC., ARE COMPUTED ON THE BASIS OF ONE HUNDRED SEVEN AND ONE HALF PER CENT OF THE WEIGHT OF THE FISH. THE INSURERS' TUNA, BONEFISH, GOLDFISH, ETC., ARE COMPUTED ON THE BASIS OF ONE HUNDRED SEVEN AND ONE HALF PER CENT OF THE WEIGHT OF THE FISH.

# LANDINGS AT MASSACHUSETTS PORTS

## SUMMARY OF FISHERY - BY AREA AND SUBAREA, 1964

AREA AND SUBAREA	CRAFT FISHING	TRIPS	DAYS ABSENT	DAYS FISHED		MARKET POUNDS	SCROD POUNDS	CUSH, DRAWN POUNDS	FLOUNDERS, BLACK- BACK POUNDS	ROUND DAB POUNDS
				NUMBER	NUMBER					
					LARGE					
GULF OF ST. LAWRENCE (AREA XXI):										
EAST GULF OF ST. LAWRENCE:	11	21.1	301	69.1	50	925	-	12	90	22
SOUTH GULF OF ST. LAWRENCE:	11	24.7	337	67.7	50	25	-	13	438	23
TOTAL:	5	2.3	29	6.2	-	-	-	-	425	-
1/ 12	48.1	667	163.0	100	950	-	-	25	-	45
OFF GRAND BANKS (AREA XX):										
SOUTHWEST GRAND BANKS:	1	.2	3	4.5	-	-	-	-	-	-
ST. PIERRE BANK:	1	.4	8	2.0	-	-	-	-	-	-
TOTAL:	1/ 1	.6	11	6.5	-	-	-	-	-	-
OFF NOVA SCOTIA (AREA XXI):										
NORTHEAST CAPE BRETON:	12	10.4	142	53.1	1,207	100	187	175	-	-
MISNAIE BANK	6	5.5	75	30.0	-	10,225	-	90	-	987
BASQUEREAU:	12	9.0	147	46.0	1,100	1,100	-	-	2,952	22,050
ANSLES:	6	4.4	68	19.3	2,750	2,750	-	-	1,456	2,152
MIDDLE GROUND:	6	2.2	43	10.0	220	-	-	-	613	-
SOUTHEAST SABLE ISLAND BANK:	7	2.1	1	-	-	-	-	-	-	-
HORSESHOE GROUND:	10.2	136	38.2	1,090	7,216	600	-	1,723	-	848
EASTERN NOVA SCOTIA:	11	16.6	220	60.1	785	6,540	-	3,952	-	3,487
CENTRAL NOVA SCOTIA:	17	23.4	292	68.6	2,043	10,400	-	1,645	-	1,328
EASTERN GROUNDS & LA HAVE:	20	32.0	271	147.6	67,076	104,557	21,905	38,513	-	17,924
SOUTHERN NOVA SCOTIA:	44	35.7	332	148.2	38,393	10,910	10,190	8,483	75	7,227
WESTERN BROWNS:	65	145.1	1,223	842.7	689,246	791,936	16,446	139,495	-	105,363
WESTERN NOVA SCOTIA:	28	33.3	291	129.4	60,498	118,955	42,915	55,907	-	44,895
SOUTHERN BAY OF FUNDY:	19	11.8	64	13.9	1,244	1,322,939	42,915	21,207	-	21,532
NORTHERN BAY OF FUNDY:	19	52.7	474	330.0	1,261,677	1,521,438	65,741	5,925	-	16,508
TOTAL:	1/ 88	393.0	3,922	2,022.9	1,086,120	1,287,866	290,135	50,026	397,039	-
NEW ENGLAND (AREA XXII):										
EASTERN MAINE:	19	13.7	118	70.8	38,425	46,006	17,552	10,171	37	23,770
WESTERN MAINE:	1	1.3	340.8	20.6	7,733.1	791,100	143,494	47,641	-	-
EASTERN MASSACHUSETTS:	47	32.3	13,497.3	14,342	6,459.1	2,002,492	615,677	42,314	3,390	68,005
INNER GROUNDS:	71	245.7	772	449.1	182,208	1,085,202	48,773	2,252,653	-	1,070,015
WEST SIDE SOUTH CHANNEL:	316	4,949.1	10,462	6,366.5	3,468,228	3,692,715	826,466	274,100	301,473	628,406
EAST SIDE SOUTH CHANNEL:	213	688.5	6,129	4,303.3	1,671,221	1,375,552	191,620	253,392	-	2,451,548
NORTHERN EDGE & NORTHEAST PEAK:	127	464.5	4,039	2,917.9	2,726,255	2,492,202	623,818	211,503	227,377	472,391
CENTRAL & SOUTHEAST GEORGES:	175	1,044.1	7,659	5,003.5	1,775,064	1,332,302	111,463	45,241	753,142	300,334
SOUTHEAST GEORGES:	131	569.9	4,908	3,308.0	2,068,068	2,288,230	277,890	2,652	-	32,762
NANTUCKET SHOALS & LIGHTSHIP:	204	1,493	5,445	5,280.6	1,223,400	1,281,400	56,325	4,149	4,149	10,350
OFF AGAWAM & RANDOLPH:	49	597.4	2,033	1,200.3	1,719,650	1,768,068	3,035	125	226,652	3,921
SOUTHERN MASSACHUSETTS:	15	320.0	630	320.3	327,033	36,745	1,360	-	617,375	-
RHODE ISLAND SHORE:	15	340.0	160	160	212,3	100	-	-	-	-
TOTAL:	1/ 685	24,825.9	60,677	36,677.3	11,231,938	13,106,714	2,570,660	1,393,865	13,756,443	5,139,634
MIDDLE ATLANTIC (AREA XXIII):										
OFF LONG ISLAND:	68	149.4	1,014	637.2	4,670	3,220	-	-	1,770	-
GRAND TOTAL:	1/ 690	25,416.0	66,291	39,506.9	12,274,637	14,408,930	2,620,795	1,663,995	13,609,239	5,530,718

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

## NEW ENGLAND FISHERIES

## LANDINGS AT MASSACHUSETTS PORTS

## SUMMARY OF FISHERY - BY AREA AND SUBAREA, 1964 - Continued

AREA AND SUBAREA	FLounders, Hound - CONTINUED				Haddock, Drann				Hake			
	FLUKE	GRAY SOLE	LEMON SOLE	YELLOW-TAIL	POUNDS	POUNDS	LARGE	SCROD	SNAPPER	RED, ROUND	WHITE, DRESSED	POUNDS
GULF OF ST. LAWRENCE (AREA XIX):												
EAST GULF OF ST. LAWRENCE . . . . .	-	105	-	-	-	65	59	-	-	-	-	65
NORTH GULF OF ST. LAWRENCE . . . . .	-	-	-	-	-	65	57	-	-	-	-	65
TOTAL . . . . .	-	165	-	-	-	130	115	-	-	-	-	130
OFF NOVA SCOTIA (AREA XXI):												
NORTHEAST CAPE BRETON . . . . .	-	-	-	-	-	300	250	-	-	-	-	375
MISIANE BANK . . . . .	-	187	-	-	-	2,205	1,118	-	-	-	-	675
BANQUIEREAU . . . . .	-	207,000	-	-	-	-	140	-	-	-	-	250
CANSO . . . . .	-	22,000	-	-	-	-	3,375	-	-	-	-	-
MIDDLE GROUND . . . . .	-	3,375	-	-	-	-	500	-	-	-	-	-
HORSESHEAD GROUND . . . . .	-	8,078	-	-	-	-	4,987	10,400	-	-	-	-
EASTERN NOVA SCOTIA . . . . .	-	8,098	-	-	-	-	7,926	-	-	-	-	-
CENTRAL NOVA SCOTIA . . . . .	-	2,032	-	-	-	-	3,086	13,274	-	-	-	-
SOUTHERN NOVA SCOTIA . . . . .	-	2,392	-	-	-	-	16,677	15,511	-	-	-	-
SOUTHERN NOVA SCOTIA . . . . .	-	2,320	-	-	-	-	6,000	4,737	-	-	-	-
WESTERN BRITISH COLUMBIA . . . . .	-	116	-	-	-	-	370	555	-	-	-	-
WESTERN NOVA SCOTIA . . . . .	-	14,474	-	-	-	-	6,089	5,407	-	-	-	-
WESTERN NOVA SCOTIA . . . . .	-	7,870	-	-	-	-	4,623	942	-	-	-	-
SOUTHERN BAY OF FUNDY . . . . .	-	25,400	-	-	-	-	3,311	810	-	-	-	-
NORTHERN BAY OF FUNDY . . . . .	-	11,266	-	-	-	-	176,758	108,809	-	-	-	-
NORTHERN BAY OF FUNDY . . . . .	-	77,175	-	-	-	-	934	239	-	-	-	-
TOTAL . . . . .	-	393,187	12,629	76,750	7,159	301	8,888	170	78,400	-	-	69,768
NEW ENGLAND (AREA XXII):												
WESTERN MAINE . . . . .	-	17,332	-	-	-	-	900	170,532	-	-	-	-
WESTERN MAINE . . . . .	-	168,720	-	-	-	-	3,372	323,682	-	-	-	-
INNER MASSACHUSETTS . . . . .	-	5,294	-	-	-	-	2,607	2,490,005	-	-	-	-
INNER GROUPS . . . . .	-	825,677	-	-	-	-	1,477,495	2,081,103	-	-	-	-
WEST SIDE SOUTH CHANNEL . . . . .	-	63,133	-	-	-	-	3,466	17,684,925	-	-	-	-
EAST SIDE SOUTH CHANNEL . . . . .	-	13,029	-	-	-	-	1,271	9,958	-	-	-	-
EAST SIDE EAST CHANNEL . . . . .	-	767,411	-	-	-	-	2,438	1,777,030	-	-	-	-
CENTRAL EAST COAST . . . . .	-	9,593	-	-	-	-	4,353	6,562,934	-	-	-	-
CENTRAL & SOUTHEAST GEORGES . . . . .	-	495,222	-	-	-	-	2,072	2,205	-	-	-	-
SOUTHWEST GEORGES . . . . .	-	9,970	-	-	-	-	6,107	7,732	-	-	-	-
NANTUCKET SHOALS AND LIGHTSHIP . . . . .	-	74,224	-	-	-	-	1,943	1,726,052	-	-	-	-
OFF NO MAN'S LAND . . . . .	-	14,420	-	-	-	-	2,412	1,445,067	-	-	-	-
SOUTHERN MASSACHUSETTS . . . . .	-	151,240	-	-	-	-	224,450	926,136	-	-	-	-
RHODE ISLAND SHORE . . . . .	-	14,551	-	-	-	-	26,120	7,465,070	-	-	-	-
TOTAL . . . . .	-	197,695	-	-	-	-	10,775	65,085	-	-	-	-
MIDDLE ATLANTIC (AREA XXIII):												
OFF LONG ISLAND . . . . .	-	2,518,639	2,071,200	70,457,039	54,484,740	43,590,193	110,795	-	-	-	-	-
GRAND TOTAL . . . . .	-	516,145	4,402	-	399,550	60	200	-	-	-	-	-
1,356,228	2,906,383	2,083,829	70,933,339	61,643,251	52,428,668	189,195	2,675,670	1,098,835	1,327,268			

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTE AT END OF TABLE.

# LANDINGS AT MASSACHUSETTS PORTS

## SUMMARY OF FISHERY - BY AREA AND SUBAREA, 1964 - Continued

AREA AND SUBAREA	HALIBUT, DRANN	MACKEREL, ROUND	MENHADEN, ROUND	OCEAN PERCH, ROUND	POLLOCK, DRANN	SCUP OR POGGY, ROUND	SWORD- FISH, DRESSED	TILEFISH, DRAWN	TUNA, ROUND
	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS	POUNDS
GULF OF ST. LAWRENCE (AREA XIX):									
EAST GULF OF ST. LAWRENCE:	1,542	-	-	3,968,220	-	40	-	-	-
NORTH GULF OF ST. LAWRENCE:	3,479	-	-	4,750,172	-	-	-	-	-
SOUTH GULF OF ST. LAWRENCE:	-	-	-	3,864,100	-	-	-	-	-
TOTAL:	5,021	-	-	9,153,292	-	40	-	-	-
OFF GRAND BANKS (AREA XXI):									
SOUTHWEST GRAND BANKS:	105	-	-	481,400	-	-	-	-	-
ST. PIERRE BANK:	482	-	-	62,000	-	-	-	-	-
TOTAL:	587	-	-	110,400	-	-	-	-	-
OFF NOVA SCOTIA (AREA XXII):									
NORTHEAST TAPER BRETON:	2,107	-	-	2,074,968	400	-	-	-	-
MISANE BANK:	1,324	-	-	1,074,619	520	-	-	-	-
BANQUIEREAU:	1,831	-	-	1,230,420	5,000	-	-	-	-
CANSO:	-	-	-	668,742	39,675	-	-	-	-
MIDDLE GROUND:	144	-	-	107,300	-	-	-	-	-
SOUTHEAST SABLE ISLAND BANK:	58	-	-	26,600	-	-	-	-	-
HORSESHOE GROUND:	2,356	-	-	1,571,144	65,675	-	-	-	-
EASTERN NOVA SCOTIA:	772	-	-	2,463,106	19,555	-	-	-	-
CENTRAL NOVA SCOTIA:	1,474	-	-	2,612,811	17,065	-	-	-	-
FAGGY BROWNS & LA HAVÉ:	74	-	-	1,767,680	217,955	-	-	-	-
SOUTHERN BROWNS & LA HAVE:	2,392	-	-	1,413,392	983,401	-	-	-	-
WESTERN BRIMS & SCOTIA:	31,930	-	-	437,405	418,405	-	-	-	-
WESTERN NOVA SCOTIA:	992	-	-	35,670	37,500	-	-	-	-
SOUTHERN NOVA SCOTIA:	491	-	-	98,165	298,052	-	-	-	-
NORTHERN BAY OF FUNDY:	1,985	-	-	-	-	-	-	-	-
TOTAL:	37,331	-	-	15,121,048	2,232,675	-	-	-	-
NEW ENGLAND (AREA XXIII):									
EASTERN MAINE:	590	-	-	7,330	72,423	-	-	-	-
WESTERN MAINE:	1,100	-	-	376,035	129,721	-	-	-	-
EASTERN MASSACHUSETTS:	12,113	2,194,047	-	800,239	1,608,932	23,580	-	-	1,007,443
INNER GROUNDS:	-	-	-	2,022,735	1,458,542	23,638	-	-	-
WEST SIDE SOUTH CHANNEL:	16,391	64,178	2,050	1,010,380	2,284,860	-	-	-	906
EAST SIDE SOUTH CHANNEL:	59,528	-	-	86,106	1,294,320	-	-	-	-
NORTHERN EDGE & NORTHEAST PEAK:	26,060	-	-	31,326	279,289	-	-	-	-
CENTRAL & SOUTHEAST GEORGES:	18,753	-	-	860	23,050	9,555	110,688	-	2,024
SOUTHEAST GEORGES:	15,276	-	-	240	41,095	81,695	359,610	163,065	69,684
HARBOURS, BODIES OF WATER AND LIGHTSHIP:	2,459	6,000	-	-	400,036	42,248	130,743	506,091	506,091
NO MAN'S LANDS AND LIGHTSHIP:	1,375	-	-	-	-	-	-	-	-
SOUTHERN MASSACHUSETTS:	116	10	-	-	-	-	-	-	-
RHODE ISLAND SHORE:	-	-	-	-	-	-	-	-	-
TOTAL:	153,760	2,266,235	2,050	5,945,929	8,324,892	4,665,254	601,321	205,313	1,566,148
MIDDLE ATLANTIC (AREA XXIV):									
OFF LONG ISLAND:	-	459,200	-	-	-	-	211,050	289,201	1,637
GRAND TOTAL:	196,699	2,725,495	2,050	30,331,669	19,557,807	487,304	870,522	207,150	3,212,263

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

## NEW ENGLAND FISHERIES

## LANDINGS AT MASSACHUSETTS PORTS

## SUMMARY OF FISHERY - BY AREA AND SUBAREA, 1964 - Continued

AREA AND SUBAREA	WHITING		SEA LOP HEATS		UNCLASSIFIED		OTHER SPECIES	TOTAL POUNDS
	ROUND	DRESSED	POUNDS	POUNDS	POUNDS	FOR INDUS- TRIAL USE		
GULF OF ST. LAWRENCE (AREA XIX):								
EAST GULF OF ST. LAWRENCE . . . . .								
NORTH GULF OF ST. LAWRENCE . . . . .								
SOUTH GULF OF ST. LAWRENCE . . . . .								
TOTAL . . . . .								9,168,913
OFF GRAND BANKS (AREA XX):								
SOUTHWEST GRAND BANKS . . . . .								
ST. PIERRE BANK . . . . .								
TOTAL . . . . .								48,505 62,462
OFF NOVA SCOTIA (AREA XXI):								
NORTHEAST CAPE BRETON . . . . .								
MISAINIE BANK . . . . .								
BANQUIEREAU . . . . .								
CANSO . . . . .								
MIDDLE GROUND . . . . .								
SOUTHEAST ISLAND BANK . . . . .								
HORSESHOE GROUND . . . . .								
EASTERN NOVA SCOTIA . . . . .								
NORTH NOVA SCOTIA . . . . .								
EASTERN BRITONS & LA HAVRE . . . . .								
SOUTHERN BRITONS . . . . .								
WESTERN BRITONS . . . . .								
WESTERN NOVA SCOTIA . . . . .								
SOUTHERN BAY OF FUNDY . . . . .								
NORTHERN BAY OF FUNDY . . . . .								
TOTAL . . . . .								130
NEW ENGLAND (AREA XXII):								
EASTERN MAINE . . . . .								
CENTRAL MAINE . . . . .								
WESTERN MAINE . . . . .								
INNER GROUPS . . . . .								
WEST SIDE, SOUTH CHANNEL . . . . .								
EAST SIDE, SOUTH CHANNEL . . . . .								
NORTHERN EDGE & NORTHEAST PEAK . . . . .								
SOUTHWEST GEORGES . . . . .								
NANTUCKET SHOALS & LIGHTSHIP . . . . .								
OFF MANS LAND . . . . .								
SOUTHERN MASSACHUSETTS . . . . .								
RHODE ISLAND SHORE . . . . .								
TOTAL . . . . .								
MIDDLE ATLANTIC (AREA XXIII):								
OFF LONG ISLAND . . . . .								
GRAND TOTAL . . . . .	56,302,625	1,057,690	410,586	13,266,032	5,573,375	24,529,013	10,620,192	388,807,997
	56,303,425	1,057,690	666,938	13,603,895	6,677,860	24,525,013	10,627,394	409,630,214

1/ EXCLUSIVE OF DUPLICATION.

## SURVEY PROCEDURE IN THE NEW ENGLAND STATES

Statistical programs in the New England States are under the general supervision of the Bureau's regional office in Gloucester, Mass., with direct supervision by a regional supervisor for statistics also at Gloucester. The operation is carried on by field reporters at Rockland, Boothbay Harbor, and Portland, Me.; Boston, Gloucester, Provincetown, and New Bedford, Mass.; and Warren and Point Judith, R.I. They are specialists trained in obtaining and reporting fishery statistical data on a daily, monthly, and annual basis. Information on the volume and value of the catch by species, gear, and area of capture is obtained from fishermen and buyers of fish, shellfish, and other marine products. Special surveys are conducted for statistics on employment of fishermen, shoreworkers, fishing craft and gear, and the production of processed fishery products.

Catch. The fishery reporting specialists obtain daily individual trip data for all landings at their respective ports. They also interview a high percentage of trips for information on fishing effort and area of capture. These data are entered on punch cards for use in preparing monthly and annual tabulations of catch by species, gear, area of capture, and county where landed. Complete information on State landings is not always included because deliveries may be made at ports not covered daily. Information on these landings is obtained annually.

Maine. Each month, all areas in Maine, except Portland and Rockland, are canvassed by a Bureau representative and a State employee to obtain from each dealer and buyer a report on the quantity of fish, shellfish, and worms, by species, purchased from fishermen. These data are entered on punchcards at the same time as those for the major ports, thus providing complete information on Maine landings for the month.

Current cumulative tabulations of the monthly landings by area are maintained, and shortly after the end of each year, a revised tabulation is prepared listing by county and month all species taken during the year. Any revisions in the monthly data are included, and data on sea moss, which is shown only annually, are added.

Massachusetts. Daily information on Massachusetts landings is assembled for Boston, Gloucester, New Bedford, Plymouth, and Cape Cod ports. Detailed statistics are obtained on the volume and value of the catch for each vessel by species, gear used, and the subarea in which the catch was made. Additional detailed information on the time spent in fishing, depth fished, etc., is obtained for 12 study vessels.

Landings at the major ports in Massachusetts constitute about 98 percent of the total annual catch for that State. Species not covered are most shellfish (other than sea scallops and trawl caught lobsters) and some minor finfish species such as smelt, eels, and river-run alewives. Information on the catch of lobsters is obtained from annual reports which each fisherman is required to file with the State. Statistics on other shellfish and alewife catches are secured from town shellfish wardens. Data on the remaining species are collected by annual personal interviews with fishermen and dealers and are prorated to the area of capture and gear used. The information is forwarded to the Washington office to be machine processed with other figures for the State.

Rhode Island. Data to complete the monthly Rhode Island Landings bulletin are collected and tabulated each month in the fishery statistical office at Warren. Detailed information is assembled on daily landings at Point Judith and Newport. Cumulative tabulations are maintained on the monthly catch by county and by area. After the close of each year, a revised tabulation is prepared and issued as an annual Rhode Island Landings bulletin.

Connecticut. Landings data for Connecticut are obtained by an annual questionnaire which the State sends to each fisherman and by visits that the Bureau's employee stationed at Warren, R.I., pays to fishermen and dealers. At Stonington, a part-time employee records

## NEW ENGLAND FISHERIES

individual vessel landings (hails). Daily information is obtained by the New York Fishery Market News office on shipments from Connecticut received on the market. These are tabulated at the Gloucester office. At the end of the year, data from these various sources are summarized by the Rhode Island field reporter, listed by county, prorated to area of capture based on interviews with fishermen and dealers, and entered on schedules which are forwarded to the Washington office for processing.

**Summary.** At the end of the year, all catch data are consolidated into summary tabulations for each State, by species, by county and gear. After being reviewed by the field staff and the Washington office, the tabulations are published.

**Operating Units.** A set of prepunched Bureau of Customs vessel cards containing the name of the vessel, the official number, the rig code, gross tons, length, and year built is furnished field reporters each year. Reporters interview the captains of the vessels to obtain area fished; number of crew; and number, type, and quantity of gear used in each fishery. The Gloucester office adds to the vessel punchcards the data on the crew and gear. The number of crew is the maximum number of crewmen aboard the vessel at any one time for each gear operated. Number and quantity of gear reported for each vessel is the greatest quantity used at one time. Gear ashore or carried aboard the vessel for replacement is not included. Machine tabulations of vessel landings provide information on the vessels that fished at major ports during the year. Throughout the year, field reporters prepare supplemental vessel lists for areas other than major ports, which are combined into one list at the end of the year. In detailed State operating unit tabulations, operating unit information on the number of men and craft is shown for each gear. In the summary for the State, however, they are shown only once.

Data on crew and gear are added to the vessel punchcards by the Gloucester office. Data relating to the operation of craft of less than 5 net tons and fishermen operating without boats are classified as the shore and boat fishery, and one or more cards are prepared for the total number of boats, etc., using each type of gear in each county.

The vessel, boat, and shore cards are punched at the Gloucester statistical office, processed by the Woods Hole tabulating unit, and returned to Gloucester, where operating unit tables are prepared. These tables are reviewed and corrected by area supervisors, who forward them to the Washington office. Any discrepancies are reconciled by field and central office personnel, and an annual summary entitled New England Fisheries is published.

**Processed Fishery Products.** Data on the production of processed fishery products are obtained monthly, quarterly, or annually through the use of questionnaires and followup visits where necessary. As the reports are received, they are checked for discrepancies and then forwarded to the Washington office. Summaries of the annual data appear in the Canned, Industrial, Manufactured, and Packaged Fishery Products bulletins.

**Fish Sticks and Portions, and Breaded Shrimp.** Data on the production of fish sticks and portions and breaded shrimp summarized on a monthly basis are collected quarterly by field reporters on forms (schedules) provided by the central office. The forms are mailed to producers at the end of each quarter, and if the forms are not returned, the firms are contacted by a field reporter. The information is published by the central office in a quarterly report entitled, Fish Sticks, Fish Portions, and Breaded Shrimp. At the end of the year, the data are summarized, figures are obtained on the value of the production, and an annual summary is published.

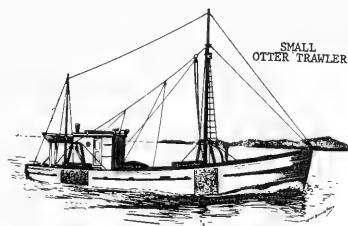
**Fish Meal, Oil, and Solubles.** Data on the production of fish meal, oil, and solubles are collected monthly by field reporters, who, on the first of each month, mail the data forms to each of the

meal producing firms in the area. The forms request production figures on meal, oil, and solubles; menhaden plants are also asked about the number of fish received. When completed forms are not returned, the field reporter obtains the data by telephone or in person. After review by field personnel, the reports are forwarded to the Washington office, where the data are tabulated and published monthly in a bulletin entitled Fish Meal and Oil. At the end of the year, the data for each firm are returned to the field for review and revision, if necessary, before being tabulated and published in the annual bulletins, Industrial Fishery Products and Fish Meal and Oil.

Freezings and Cold Storage Holdings. Collection of data on the monthly freezings and holdings of fishery products in New England is handled cooperatively by the Bureau and the U.S. Department of Agriculture. Statistical and market news personnel in New England obtain monthly freezings and storage figures from 34 firms in coastal areas. The Department of Agriculture conducts a mail canvass of three firms.

The figures are machine tabulated by the central office of the Branch of Fishery Statistics. National data on freezings and holdings are published in preliminary cold storage reports, which are released on the 15th of each month unless the date falls on a holiday or weekend. Summaries are issued by the Bureau's Fishery Market News offices and the Department of Agriculture. Final monthly reports are published by the Branch of Fishery Statistics, as well as an annual Frozen Fishery Products bulletin, which lists the firms that furnished information on the fishery cold storage activities.

Market News Reporting. A great deal of current fishery data appears in the Fishery Products Reports issued daily by the Boston and New York Fishery Market News offices. These reports show day-to-day fluctuations. Seasonal fluctuations can be determined by reviewing the monthly landings bulletins. The most complete annual data appear in the Statistical Digest, Fishery Statistics of the United States. Information on the catch by waters is not published but is machine processed and tabulations are furnished State and Federal laboratories along the New England coast.



## SECTION 3 - MIDDLE ATLANTIC FISHERIES

The 1964 commercial landings of fish and shellfish in the coastal areas of the Middle Atlantic States (New York, New Jersey, and Delaware) were 370.2 million pounds valued at \$20.9 million. Compared with 1963, this was a decline of 180.2 million pounds (33 percent) and \$448,000 (2 percent). While landings of menhaden declined 233.6 million pounds, other industrial fish for reduction increased 60.1 million pounds.

New York was the leading producer of the Middle Atlantic States with 53 percent of the volume and 52 percent of the value, followed by New Jersey, 38 and 45; and Delaware, 9 percent of the volume and 3 percent of the value.

Fishermen and vessels. During 1964, there were 9,118 fishermen in the fisheries of the Middle Atlantic States, 565 more than in 1963. This relatively large increase took place among the inshore fishermen who shared improved catches of bay scallops and hard clams. Commercial fishing craft operated in these States consisted of 608 vessels (craft of 5-net tons and over), 4,015 motor boats, and 299 other boats--a decrease of 70 motor boats, but a gain of 9 vessels and 11 other boats.

Processing. Manufactured fishery products were valued at \$86.6 million, a slight increase compared with the previous year. New York accounted for 45 percent of the value; New Jersey, 33; and Pennsylvania and Delaware, 22 percent.

Legislation. The New York State legislature amended laws affecting coastal fisheries for striped bass and fluke. In addition to placing minimum legal size limits of 16 and 14 inches, respectively, on these species, it removed seasonal or quantity limits on the catch. It also passed a bill, effective January 1, 1965, to permit the sale of legally caught striped bass and fluke throughout the year.

Surf clams. Increased consumer acceptance of surf clams was reflected in industry efforts to boost production. For the second consecutive year, production exceeded 38 million pounds, despite a strike by shuckers which reduced fishing time by approximately 2 months. A 673,000-pound catch decline in New Jersey was partly offset by a New York increase of 244,000 pounds.

Blue crabs. The crab fishery in Delaware Bay continued its downward trend. Fishermen believed that cool weather and natural mortality were responsible for the reduced landings of 882,000 pounds of hard crabs--down 36 percent from 1963 and the lowest point recorded in the Middle Atlantic States in 20 years.

Menhaden. The catch of menhaden in the Middle Atlantic States was the smallest since 1938. Only 139.3 million pounds were landed, down 233.6 million pounds (63 percent) from 1963. The decrease was partially compensated for by landings of unclassified industrial species.

Industrial otter trawl fishery. The industrial otter trawl fishery gave a substantial lift to the Middle Atlantic meal and oil industry.

Total landings of this fishery were 121.9 million pounds, almost twice the 1963 production. A factor which increased the New York receipts was the continued shutdown of the dehydration plant at Point Judith, R. I. Most of the Rhode Island industrial fish catch was shipped by carrier vessel to a Long Island plant for processing. For the first time, landings were made at New Jersey ports--only 4.2 million pounds but showing promise of greater activity in the future. A number of factors influenced the demand for industrial species for reduction: Production of meal and solubles in the United States was the lowest since 1953; the U. S. menhaden catch was the smallest since 1958; and the price of meal was high.

Fulton Fish Market. Landings by fishing craft at Fulton Street dropped to 6.4 million pounds--the lowest since 1938. A sizeable decline in scup early in the year, combined with a stronger market for sea scallops, caused many otter trawl operators to switch to the more lucrative scallop fishery. Shipments of fresh and frozen fishery products to the salt-water section of the Fulton Market reached a new high of 180.1 million pounds, 4 percent above 1963. Freshwater receipts of 9.1 million pounds continued a downward trend evident over the past 10 years. New York City allocated \$2.3 million for site acquisition and design of a relocated fish market. Estimated cost of the new market is about \$15 million.

Hudson River fisheries. Commercial landings of Hudson River fish were at a new low in 1964--276,000 pounds valued at \$45,000; a decline of more than 190,000 pounds and \$46,000. Each year there are fewer fishermen and nets along the river.

Striped bass. Excellent early and late seasonal runs of this species helped boost production 37 percent to an alltime high of 2.0 million pounds in New York and New Jersey. In New York, the principal gear used was the haul seine, which produced 687,000 pounds; and in New Jersey, the otter trawl, 865,000 pounds.

Tuna. New Jersey tuna landings were 2.8 million pounds, only 70,000 pounds under the 1963 catch and 99 percent of the tuna taken in the Middle Atlantic States.

Oysters. The Middle Atlantic catch of oysters (1.4 million pounds) was 43 percent more than in the previous year. Tong and dredge oystermen in New Jersey, operating in newly-opened seed bed areas, took 113 percent more oysters than in 1963 and had the second best year since the MSX parasite decimated the industry in 1958. Production in New York declined 46 percent, with prospects doubtful for immediate improvement. The 1964 natural seed set in New York was insignificant, although some growers were able to raise seed oysters and sell them commercially. The industry continued trying to develop a method of raising oysters artificially in hatcheries.

Hard clams. Better prices, a good market, a shifting of clamming grounds in New York, and the opening of previously closed areas in New Jersey, resulted in a larger hard clam production in the Middle Atlantic States. Production increased to 7.7 million pounds of meats valued at \$5.1 million--up 8 percent in volume and 19 percent in value compared with 1963. The Conservation Department of New York initiated a clam transplant program which produced excellent results. It increased optimism for future work in removing clams from unclean areas for relocation in certified waters. New York will soon join the ranks of the New England States which have established clam treatment plants. A new plant under construction at West Sayville, L. I., is expected to be in operation in 1965.

Swordfish. Longliners continued to dominate this lucrative fishery, with catches in excess of 450,000 pounds compared with 20,000 by the traditional harpoon. The catch was more than double that of 1963, with much of the credit due to out-of-State longliners who sold their product in New York and New Jersey. Attrition among the local boats was heavy, particularly in New Jersey, where only three vessel operators out of eight in 1963 remained in the fishery.

Lobsters. An increase of 42 percent in lobster landings to 1.6 million pounds resulted largely from discovery of new offshore grounds. This offshore fishery, which is carried out by specially rigged otter trawl vessels, accounted for 70 percent of the total catch, while 10 percent was taken as incidental catch in regular otter trawls; and 20 percent in lobster pots.

Bay scallops. The 1964 landings of bay scallops in the Middle Atlantic States were 1.1 million pounds valued at \$886,000--a gain of 84 percent in quantity and 119 percent in value compared with the previous year.

## MIDDLE ATLANTIC FISHERIES

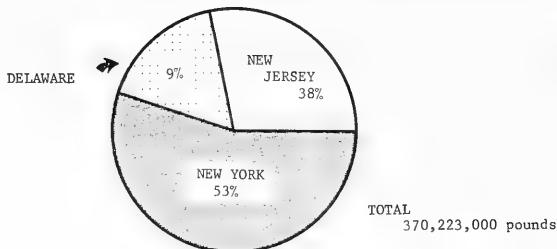
Excellent demand and high prices helped increase the New York bay scallop catch to 687,000 pounds of meats valued at \$731,000--up 127 percent in volume and 150 percent in value from 1963. Although the 1964 New York catch was far below the record 988 million pounds taken in 1962, the value was \$9,000 more. The large increase in catch was attributed to a late-season decision by the New York Department of Conservation to permit fishermen to harvest under-legal-size scallops, from areas usually subject to severe winter kill. These small scallops depressed prices considerably during December.

In New Jersey, Barnegat Bay scallopers also caught more of these shellfish. Ideal weather in the late fall and early winter, and the largest scallop population fishermen could recall led to a record production of 376,000 pounds of meats.

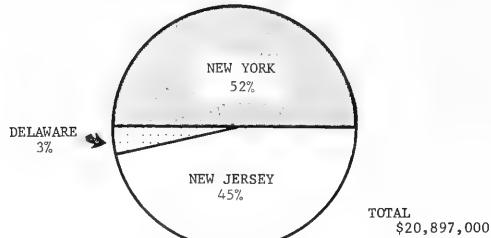
**Further information.** Condensed summary data on the operating units and catch, by States, appearing on the following pages have been previously published in Current Fishery Statistics No. 3870. Additional data may be found in the New York and New Jersey monthly and annual landing bulletins published in the Current Fishery Statistics Series by the Branch of Fishery Statistics in cooperation with the respective States. Information on daily, monthly, and annual production of fishery products in selected areas of these States is available in reports published by the Bureau's Fishery Market News Service at New York City.

**Acknowledgments.** The Bureau acknowledges the assistance of the following organizations in the collection of the data appearing in this section: The New York Conservation Department, Marine Fisheries Division, and Division of Fish and Game; New Jersey Conservation Department, Division of Fish and Game, New Jersey Shellfish Commission; State of Delaware, Commission of Shellfisheries.

### MIDDLE ATLANTIC STATES CATCH, 1964

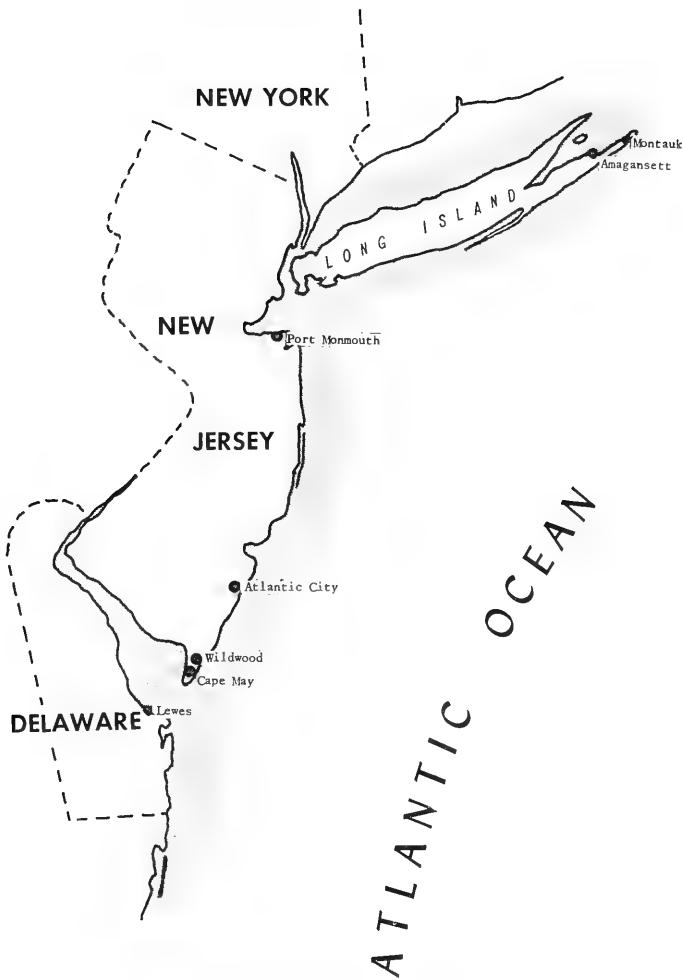


### VALUE OF THE MIDDLE ATLANTIC STATES CATCH, 1964



# MIDDLE ATLANTIC FISHERIES

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MIDDLE ATLANTIC STATES

**MIDDLE ATLANTIC FISHERIES****SECTIONAL SUMMARIES****SUMMARY OF CATCH, 1964**

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

STATE	FISH		SHELLFISH, ETC.		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW YORK . . . . .	186	4	11	7	197	11
	96	4	43	5	139	9
	33	1	1	(1)	34	1
TOTAL . . . . .	315	9	55	12	370	21

1/ LESS THAN \$500,000.

**SUMMARY OF OPERATING UNITS, 1964**

ITEM	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS . . . . .	1,054	1,792	365	2,990
ON BOATS AND SHORE:				
REGULAR . . . . .	1,338	606	67	1,998
CASUAL . . . . .	2,934	997	199	4,130
TOTAL . . . . .	5,326	3,395	631	9,118
VESSELS, MOTOR . . . . .	272	344	34	608
GROSS TONNAGE . . . . .	13,903	18,548	4,246	33,293
BOATS:				
MOTOR . . . . .	2,520	1,303	198	4,015
OTHER . . . . .	111	176	12	299
GEAR:				
HAUL SEINES, COMMON . . . . .	39	38	1	78
LENGTH, YARDS . . . . .	10,950	4,178	550	15,678
STOP SEINES . . . . .	-	4	-	4
LENGTH, YARDS . . . . .	-	1,600	-	1,600
PURSE SEINES:				
MENHADEN . . . . .	12	27	19	57
LENGTH, YARDS . . . . .	5,060	10,540	7,600	22,800
TUNA . . . . .	1	5	-	6
LENGTH, YARDS . . . . .	940	3,600	-	4,540
OTHER . . . . .	-	24	-	24
LENGTH, YARDS . . . . .	-	8,425	-	8,425
BEAM TRAWLS . . . . .	-	3	-	3
YARDS AT MOUTH . . . . .	-	9	-	9
OTTER TRAWLS:				
FISH . . . . .	201	160	4	337
YARDS AT MOUTH . . . . .	4,802	3,845	86	7,949
LOBSTER . . . . .	7	34	-	39
YARDS AT MOUTH . . . . .	202	929	-	1,076
WEIRS . . . . .	-	5	-	5
POUND NETS, FISH . . . . .	107	46	-	147
FYKE AND HOOP NETS:				
FISH . . . . .	87	49	69	205
TURTLE . . . . .	-	-	72	72
POLE AND TRAPS:				
CONGER . . . . .	50	-	-	50
CRAB . . . . .	-	4,059	2,015	6,074
EEL . . . . .	682	611	70	1,363
FISH . . . . .	1,950	18,154	-	20,104
LOBSTER . . . . .	6,350	3,230	-	9,580
TURTLE . . . . .	-	129	-	129
GILL NETS:				
ANCHOR, SET OR STAKE . . . . .	59	47	38	144
SQUARE YARDS . . . . .	75,148	90,003	63,180	228,331
DRIFT:				
SAIL . . . . .	35	12	10	57
SQUARE YARDS . . . . .	103,484	18,700	5,400	127,640
OTHER . . . . .	-	41	1	42
SQUARE YARDS . . . . .	-	310,697	3,600	314,297
RUNAROUND . . . . .	10	19	-	29
SQUARE YARDS . . . . .	16,000	134,833	-	150,833
LINES:				
HAND . . . . .	810	95	-	905
HOOKS . . . . .	1,000	119	-	1,119

(CONTINUED ON NEXT PAGE)

# MIDDLE ATLANTIC FISHERIES

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## SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
GEAR - CONTINUED:				
LINES - CONTINUED:				
TROLL . . . . .	-	60	-	60
HOOKS . . . . .	-	60	-	60
LONG OR SET WITH HOOKS . . . . .	58	47	3	108
HOOKS . . . . .	49,595	120,000	6,900	176,495
TROLL WITH BAITS . . . . .	-	6	-	6
BAITS . . . . .	-	19,000	-	19,000
PUSH NETS . . . . .	-	6	-	6
HARPOONS . . . . .	5	3	-	8
SPEARS . . . . .	18	-	-	18
DREDGES:				
CLAM . . . . .	37	59	17	113
YARDS AT MOUTH . . . . .	28	82	24	134
CRAB . . . . .	-	17	7	24
YARDS AT MOUTH . . . . .	-	26	16	42
MUSSEL . . . . .	-	1	-	1
YARDS AT MOUTH . . . . .	-	3	-	3
OYSTER, COMMON . . . . .	20	78	12	110
YARDS AT MOUTH . . . . .	31	78	18	127
SCALLOP . . . . .	1,592	200	-	1,760
YARDS AT MOUTH . . . . .	1,642	220	-	1,820
OTHER . . . . .	-	8	-	8
YARDS AT MOUTH . . . . .	-	26	-	26
TONGS:				
CLAMSTER . . . . .	15	162	-	197
OTHER . . . . .	1,867	875	45	2,787
RAKES . . . . .	1,629	630	120	2,379
HOES . . . . .	-	14	-	14

## CATCH BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	NEW YORK		NEW JERSEY		DELAWARE		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
<b>FISH</b>								
ALEWIVES . . . . .	37	1	14	1	-	-	51	2
AMBERJACK . . . . .	-	-	(1)	(1)	-	-	(1)	(1)
ANGLERFISH . . . . .	27	1	-	-	-	-	27	1
BLUEFISH . . . . .	675	109	541	87	-	-	1,216	196
BONITO . . . . .	5	1	5	1	-	-	12	2
BOTTERTHREEFISH . . . . .	1,067	126	1,187	133	4	(1)	2,258	259
CARE . . . . .	6	(1)	161	12	8	1	195	13
CATFISH . . . . .	5	1	41	4	1	(1)	47	5
COD . . . . .	516	72	283	45	53	6	852	123
DRUM, "BLACK". . . . .	-	-	33	1	-	-	33	1
EELS:								
COMMON . . . . .	174	26	79	11	12	2	265	39
CONGER . . . . .	3	(1)	5	(1)	-	-	8	(1)
FLOUNDERS:								
BLACKBACK . . . . .	1,441	74	357	21	48	3	1,846	96
DAB . . . . .	1	(1)	-	-	-	-	1	(1)
FLUKE . . . . .	1,654	445	3,670	865	16	4	5,540	1,314
GRAY SOLE . . . . .	14	2	30	2	-	-	44	4
YELLOWTAIL . . . . .	3,562	233	11	1	-	-	3,573	234
TOTAL FLOUNDERS . . . . .	6,872	754	4,068	889	64	7	11,004	1,650
GRUNTS . . . . .	-	-	1	(1)	-	-	1	(1)
HADDOCK . . . . .	47	6	1	(1)	-	-	46	6
HAKE:								
RED . . . . .	666	17	628	19	-	-	1,294	36
WHITE . . . . .	2	(1)	58	3	-	-	60	3
HERRING, SEA . . . . .	155	3	302	6	11	1	466	10
KILLIFISHING OR "KINGFISH" . . . . .	12	1	23	2	5	(1)	40	3
MACKEREL . . . . .	164	21	314	49	-	-	476	70
MARLIN . . . . .	-	-	(1)	(1)	-	-	(1)	(1)
MENHADEN . . . . .	42,425	516	64,279	970	32,554	378	139,256	1,864
MULLET . . . . .	-	-	42	9	-	-	42	9
POLLOCK . . . . .	-	2	(1)	2	(1)	-	4	(1)
SCUP OR PORGY . . . . .	8,344	764	8,551	847	1	(1)	16,896	1,631
SEA BASS . . . . .	501	96	2,195	335	-	-	2,696	431
SEA ROBIN . . . . .	25	1	43	1	-	-	68	2
SEA TROUT OR WEAKFISH, GRAY . . . . .	56	12	545	47	127	14	728	73
SHAD . . . . .	141	23	430	54	150	19	721	96

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

## MIDDLE ATLANTIC FISHERIES

## CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	NEW YORK		NEW JERSEY		DELAWARE		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
<b>FISH - CONTINUED</b>								
SHARKS:								
GRAYFISH . . . . .	73	3	(1)		-	-	73	3
UNCLASSIFIED . . . . .	2	(1)	7	(1)	-	-	9	(1)
TOTAL SHARKS. . . . .	75	3	7	(1)	-	-	82	3
SILVERSIDES . . . . .	157	16	-	-	-	-	157	16
SKATES . . . . .	14	1	1	(1)	-	-	15	1
SPANISH MACKEREL . . . . .	-	-	(1)	(1)	-	-	(1)	(1)
SPOTTED SWORDFISH . . . . .	-	-	(1)	(1)	-	-	(1)	(1)
STURGEON . . . . .	995	141	996	174	31	6	2,022	321
STUPPER BASS . . . . .	12	2	13	3	3	1	28	6
SUCKERS . . . . .	{1}	{1}	-	-	-	-	{1}	{1}
SUNFISH . . . . .	-	-	-	-	-	-	-	-
SWELLFISH . . . . .	550	23	131	5	4	(1)	685	28
SWORDFISH . . . . .	171	58	307	103	-	-	478	161
TAUTOG . . . . .	20	1	37	1	-	-	57	2
TILEFISH . . . . .	82	6	67	4	-	-	149	12
TOMCOD . . . . .	2	1	-	-	-	-	2	1
TUNA:								
BLUEFIN . . . . .	20	2	2,758	139	-	-	2,778	141
LITTLE TUNA . . . . .	3	(1)	-	-	-	-	3	(1)
TOTAL TUNA. . . . .	23	2	2,758	139	-	-	2,781	141
WHITE PERCH . . . . .	137	16	79	11	28	3	244	30
WHITING . . . . .	3,123	159	3,271	154	-	-	6,394	313
YELLOW PERCH . . . . .	(1)	(1)	(1)	(1)	-	-	(1)	(1)
UNCLASSIFIED:								
FOR FOOD . . . . .	349	33	30	2	-	-	379	35
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	117,913	886	4,738	36	-	-	122,651	922
TOTAL FISH. . . . .	185,551	3,921	96,287	4,158	33,056	438	314,894	8,517
<b>SHELLFISH, ETC.</b>								
<b>CRABS:</b>								
BLUE:								
HARD . . . . .	-	-	569	82	313	32	882	114
SOFT AND PEELER . . . . .	-	-	10	2	2	1	12	3
ROCK . . . . .	-	-	45	2	-	-	45	2
TOTAL CRABS . . . . .	-	-	624	86	315	33	939	119
<b>HORSESHOE CRABS, LOBSTERS, NORTHERN SHRIMP . . . . .</b>								
-	-	-	354	2	-	-	354	2
-	547	306	1,061	516	-	-	1,606	622
-	-	-	2	2	-	-	2	2
TOTAL CLAMS . . . . .	6,807	4,302	36,791	3,333	418	185	46,016	7,820
<b>CONCHS . . . . .</b>								
MUSSELS, SEA . . . . .	41	8	191	39	-	-	232	47
125	17	1	(1)	-	-	-	126	17
<b>OYSTERS, MARKET: PUBLIC</b>								
PUBLIC:								
SPRING . . . . .	2,956	2,309	1,891	819	296	135	5,143	3,263
RAZOR . . . . .	2,446	1,827	3	1	122	50	2,571	1,878
SOFT, PUBLIC . . . . .	5	-	-	-	-	-	6	1
SURF . . . . .	181	56	22	9	-	-	203	65
SURF . . . . .	1,218	109	36,875	2,504	-	-	38,093	2,613
TOTAL CLAMS . . . . .	6,807	4,302	36,791	3,333	418	185	46,016	7,820
<b>SCALLOPS:</b>								
SEA . . . . .	687	731	376	155	-	-	1,063	886
SEA . . . . .	2,044	1,115	140	79	-	-	2,184	1,194
SEASQUID . . . . .	1,007	74	377	22	-	-	1,364	96
TERRAPIN . . . . .	-	-	4	1	-	-	4	1
TURTLES:								
LOGGERHEAD . . . . .	-	-	1	(1)	-	-	1	(1)
SNAPPER . . . . .	-	-	53	6	5	1	56	7
UNCLASSIFIED . . . . .	-	-	2	(1)	-	-	2	(1)
TOTAL SHELLFISH, ETC. . . . .	11,471	6,869	43,075	5,265	783	246	55,329	12,360
GRAND TOTAL . . . . .	197,022	10,790	139,362	9,423	33,839	684	370,223	20,897

1/ LESS THAN 500 POUNDS OR \$500.

NOTE:-STATISTICS ON THE CATCH ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. CLAMS, CONCHS, MUSSELS, AND OYSTERS ARE REPORTED IN WEIGHT OF TOTAL MEATS. SCALLOPS ARE REPORTED IN WEIGHT OF EDIBLE MEATS.

# MIDDLE ATLANTIC FISHERIES

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## CATCH OF CERTAIN SHELLFISH, 1964

(NUMBER AND BUSHELS)

SPECIES	NEW YORK		NEW JERSEY	
	QUANTITY	VALUE	QUANTITY	VALUE
CRABS:				
BLUE:				
HARD	NUMBER	-	1,366,800	\$81,487
SOFT AND PEELER	DO	-	46,284	1,919
ROCK	DO	-	126,000	1,515
CLAMS:				
HARD:	U. S. STANDARD BUSHELS			
PUBLIC	246,350	\$2,308,641	189,120	\$19,049
PRIVATE	203,841	1,826,904	280	1,120
RAZOR	369	1,464	-	-
SOFT, PUBLIC	DO	11,300	55,677	8,965
SURF	DO	71,629	108,852	2,169,129
CONCHS	DO	2,727	7,989	9,345
MUSSELS, SEA	DO	12,490	16,512	60
OYSTERS, MARKET:				
PUBLIC:				
SPRING	DO	1,893	21,025	725
FALL	DO	4,707	49,077	13,929
PRIVATE:				
SPRING	DO	10,307	113,421	1,929
FALL	DO	11,560	131,514	136,014
SCALLOPS:				
BAY	DO	114,517	731,474	55,338
SEA	DO	340,716	1,114,682	23,363

SPECIES	DELAWARE		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE
CRABS:				
BLUE:				
HARD	NUMBER	751,920	\$32,330	2,118,720
SOFT AND PEELER	DO	9,200	950	55,484
ROCK	DO	-	-	126,000
CLAMS:				
HARD:	U. S. STANDARD BUSHELS			
PUBLIC	37,000	135,219	472,470	3,262,909
PRIVATE	DO	15,250	49,575	219,530
RAZOR	DO	-	-	369
SOFT, PUBLIC	DO	-	-	13,092
SURF	DO	-	-	2,240,758
CONCHS	DO	-	-	12,272
MUSSELS, SEA	DO	-	-	47,065
OYSTERS, MARKET:				
PUBLIC:				
SPRING	DO	-	-	2,618
FALL	DO	1,492	6,000	20,128
PRIVATE:				
SPRING	DO	2,231	8,344	14,467
FALL	DO	3,154	12,540	152,728
SCALLOPS:				
BAY	DO	-	-	169,555
SEA	DO	-	-	364,099

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

## AVERAGE WEIGHTS OF CERTAIN SHELLFISH, 1964

SPECIES	NEW YORK		NEW JERSEY	
	QUANTITY	QUANTITY	QUANTITY	QUANTITY
CRABS:				
BLUE:				
HARD	NUMBER PER POUND	-	2.40	2.40
SOFT AND PEELER	DO	-	4.62	4.00
ROCK	DO	-	2.80	-
CLAMS:				
HARD:	LBS. MEATS PER U. S. STANDARD BUSHEL			
PUBLIC	12.00	10.00	8.00	8.00
PRIVATE	DO	12.00	10.00	8.00
RAZOR	DO	16.00	-	-
SOFT, PUBLIC	DO	16.00	12.00	-
SURF	DO	17.00	17.00	-
CONCHS	DO	15.00	20.00	-
MUSSELS, SEA	DO	10.00	10.00	-
OYSTERS, MARKET:				
PUBLIC:				
SPRING	DO	7.50	6.90	-
FALL	DO	7.50	6.25	6.50
PRIVATE:				
SPRING	DO	7.50	7.00	6.50
FALL	DO	7.50	7.19	6.50
SCALLOPS:				
BAY	DO	6.00	6.80	-
SEA	DO	6.00	6.00	-

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

## MIDDLE ATLANTIC FISHERIES

## MANUFACTURED FISHERY PRODUCTS, 1964

ITEM	NEW YORK		NEW JERSEY		PENNSYLVANIA AND DELAWARE	
	STANDARD CASES	QUANTITY (1)	STANDARD CASES	QUANTITY (1)	STANDARD CASES	QUANTITY (1)
ANCHOVY PASTE, CANNED . . . . .	POUNDS	50,000	\$44,600	-	-	-
BUFFALOFISH, SMOKED . . . . .	DO	375,000	299,250	(1)	(1)	-
CARP, SMOKED . . . . .	DO	(1)	(1)	(1)	(1)	-
CHUBS, SMOKED . . . . .	DO	2,540,000	1,876,000	(1)	(1)	-
COD:						
FILLETS, FRESH . . . . .	DO	2,038,900	957,318	(1)	(1)	(1)
SPECIALTIES:						
FROZEN (BREADED RAW AND COOKED CAKES) . . . . .	DO	(1)	(1)	(1)	1,518,476	\$493,897
CANNED . . . . .	STANDARD CASES	(1)	(1)	(1)	-	-
SALTED AND SMOKED . . . . .	POUNDS	(1)	(1)	(1)	(1)	-
EELS, SMOKED . . . . .	DO	131,500	124,100	36,000	\$25,200	-
FLUNDER:						
FILLETS:						
FRESH AND FROZEN . . . . .	DO	3,889,800	2,195,026	(1)	(1)	(1)
BREADED RAW AND COOKED, FROZEN . . . . .	DO	(1)	(1)	(1)	-	-
SPECIALTIES, FROZEN (BREADED WHOLE, STUFFED) . . . . .	DO	-	-	(1)	(1)	-
HADDOCK:						
FILLETS:						
FRESH . . . . .	DO	619,900	309,750	(1)	(1)	(1)
BREADED AND COOKED, FROZEN . . . . .	DO	(1)	(1)	-	-	-
SPECIALTIES, FROZEN (STUFFED) . . . . .	DO	(1)	(1)	-	-	-
SMOKED . . . . .	DO	(1)	(1)	-	-	-
HAKE FILLETS, FRESH . . . . .	DO	50,500	17,170	-	-	-
HALIBUT SPECIALTIES, FROZEN (AU GRATIN) . . . . .	DO	(1)	(1)	-	-	-
HERRING:						
LAKE, SMOKED . . . . .	DO	(1)	(1)	-	-	-
SEA:						
SPECIALTIES, CURED AND REFRIGERATED (BISMARCK, IN WINE SAUCE LUNCH HERRING, ETC.) . . . . .	DO	1,072,165	707,881	-	-	-
SALTED . . . . .	DO	(1)	(1)	-	(1)	(1)
SMOKED . . . . .	DO	16,57	5,994	-	(1)	(1)
LUMPFISH, CAVIAR . . . . .	STANDARD CASES	(1)	(1)	-	-	-
MACKEREL:						
FILLETS, SALTED . . . . .	POUNDS	(1)	(1)	-	(1)	(1)
SMOKED . . . . .	DO	(1)	(1)	-	(1)	-
MENHADEN:						
MEAL AND SCRAP . . . . .	TONS	(1)	(1)	5,537	670,841	(1)
OIL . . . . .	1,000					
SOLUBLES . . . . .	POUNDS	(1)	(1)	8,817	576,515	(1)
PADDIFISH, SMOKED . . . . .	TONS	(1)	(1)	2,836	164,116	(1)
POLLOCK FILLETS, FRESH . . . . .	POUNDS	(1)	(1)	-	-	-
SABLEFISH, SMOKED . . . . .	DO	1,905,000	1,412,250	(1)	(1)	-
SAŁMON:						
CAVIAR, CANNED . . . . .	STANDARD CASES	(1)	(1)	-	-	-
SMOKED . . . . .	POUNDS	5,952	549,329	(1)	(1)	(1)
SHAD:						
FILLETS, FRESH . . . . .	DO	-	-	-	(1)	(1)
SMOKED . . . . .	DO	35,000	15,000	-	-	(1)
STURGEON:						
CAVIAR, CANNED . . . . .	STANDARD CASES	(1)	(1)	-	-	-
SMOKED . . . . .	POUNDS	1,350,500	2,524,500	(1)	(1)	-
TUNA:						
SPECIALTIES:						
FROZEN (WITH NOODLES AND PIES) . . . . .	POUNDS	(1)	(1)	-	-	-
CANNED (WITH NOODLES) . . . . .	STANDARD CASES	-	-	-	(1)	(1)
WHITEFISH:						
CANNED:						
FISH . . . . .	DO	-	-	(1)	(1)	-
CAVIAR . . . . .	DO	1,571	120,604	(1)	(1)	-
SMOKED . . . . .	POUNDS	2,113,500	1,816,000	(1)	(1)	-
WHITING, SMOKED . . . . .	DO	230,000	88,000	170,000	66,250	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# MIDDLE ATLANTIC FISHERIES

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## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM	NEW YORK		NEW JERSEY		PENNSYLVANIA AND DELAWARE	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRABS, BLUE:						
SPECIALTIES:						
FROZEN {CAKES, CUTLETS, DEVILED, ETC.} . . . . POUNDS	(1)	(1)	258,762	\$170,409	3,048,623	\$1,925,974
CANNED {NEWBURG AND BISQUE}. . . . . STANDARD CASES	-	-	(1)	(1)	(1)	(1)
MEAL AND SCRAP. . . . . TONS	-	-	(1)	(1)	(1)	(1)
LOBSTERS, NORTHERN:						
SPECIALTIES:						
FROZEN {LOBSTERETTES} . POUNDS	-	-	-	-	(1)	(1)
CANNED {BISQUE, SAUCE, NEWBURG, ETC.} . . . . STANDARD CASES	-	-	(1)	(1)	(1)	(1)
SHRIMP:						
FROZEN:						
MEAT, PEELLED AND DEVILED, RAW AND COOKED . . . . . POUNDS	(1)	(1)	(1)	(1)	-	-
BREADED, RAW AND COOKED . . . . . DO	(1)	(1)	377,894	340,947	(1)	(1)
SPECIALTIES:						
FRESH COCKTAILS (REFRIGERATED) . . . . DO	(1)	(1)	(1)	(1)	(1)	(1)
FROZEN {DINNERS, CRÉOLE, STUFFED, ETC.} . . . . DO	474,151	\$303,905	(1)	(1)	-	-
CANNED {BISQUE, CHOWDER, SAUCE, ETC.} . . . . STANDARD CASES	-	-	(1)	(1)	(1)	(1)
CLAMS, SURF AND HARD:						
FRESH AND FROZEN:						
SHUCKED . . . . . GALLONS	646,122	1,325,809	722,896	1,452,210	(1)	(1)
SPECIALTIES {CAKES, TARTS, BREADED, ETC.} . POUNDS	815,492	285,611	40,566	34,261	(1)	(1)
CANNED:						
WHOLE AND MINCED. . . . STANDARD CASES	(1)	(1)	342,573	3,921,236	(1)	(1)
CHOWDER AND JUICE . . . . DO	(1)	(1)	675,714	4,426,687	240,635	1,453,269
SPECIALTIES {SAUCE, BISQUE, AND SOFT IN SHELL} . . . . . DO	(1)	(1)	(1)	(1)	32,724	643,551
CONCH MEAT:						
FROZEN. . . . . POUNDS	(1)	(1)	-	-	-	-
CANNED. . . . . STANDARD CASES	(1)	(1)	(1)	(1)	(1)	(1)
MUSSELS, SEA:						
SPECIALTIES:						
FRESH AND FROZEN {IN HOT SAUCE} . . . . . POUNDS	-	-	(1)	(1)	-	-
CANNED {WHOLE AND BISQUE}. . . . . STANDARD CASES	(1)	(1)	(1)	(1)	(1)	(1)
MUSSEL SHELL BUTTONS. . . . . GROSS	(1)	(1)	(1)	(1)	(1)	(1)
OYSTERS:						
FRESH AND FROZEN:						
SHUCKED . . . . . GALLONS	(1)	(1)	146,141	1,680,623	53,671	611,638
BREADED . . . . . POUNDS	-	-	363,337	390,209	(1)	(1)
SPECIALTIES:						
FROZEN {PIES AND STEW}. . . . DO	-	-	-	-	(1)	(1)
CANNED {BISQUE AND STEW} . STANDARD CASES	-	-	(1)	(1)	(1)	(1)
SCALLOPS:						
BAY, SHUCKED. . . . . GALLONS	76,344	801,612	40,696	366,264	-	-
SEA-BREADED FROZEN, RAW AND COOKED . . . . . POUNDS	(1)	(1)	267,280	164,104	(1)	(1)
SPECIALTIES FROZEN {DINNERS, ETC.} . . . . DO	(1)	(1)	-	-	-	-
SQUID:						
FROZEN. . . . . DO	(1)	(1)	-	-	-	-
SPECIALTIES {IN TOMATO SAUCE} . . . . . DO	(1)	(1)	-	-	-	-
CANNED. . . . . STANDARD CASES	(1)	(1)	(1)	(1)	-	-
TURTLE:						
STEAK, RAW FROZEN . . . . POUNDS	-	-	(1)	(1)	-	-
CANNED:						
MEAT. . . . . STANDARD CASES	-	-	(1)	(1)	(1)	(1)
SPECIALTIES {SOUP} . . . . DO	-	-	(1)	(1)	(1)	(1)
OIL . . . . . 1,000 POUNDS	-	-	(1)	(1)	-	-

SEE FOOTNOTES AT END OF TABLE.

{CONTINUED ON NEXT PAGE}

# MIDDLE ATLANTIC FISHERIES

## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM	NEW YORK		NEW JERSEY		PENNSYLVANIA AND DELAWARE	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
UNCLASSIFIED: FRESH AND FROZEN, PACKAGED						
FISH:						
PORTIONS:						
RAW:						
NOT BREADED . . . POUNDS	(1)	(1)	(1)	(1)	(1)	(1)
BREADED . . . DO	(1)	(1)	(1)	(1)	5,838	443
BREADED AND COOKED. DO	(1)		(1)			
STICKS:						
RAW . . . . . DO	(1)	(1)	(1)	(1)	(1)	(1)
COOKED. DO						
OTHER FISH AND SHELLFISH DO	7,699,693	\$4,043,266	8,540,129	\$7,193,335	16,420,350	7,631,082
CANNED:						
GEFILTEFISH . . . . . STANDARD CASES	(1)	(1)	229,798	3,844,732	-	-
ANIMAL FOOD . . . . . DO	-	-	(1)	(1)	64,478	235,190
OTHER . . . . . DO	286,200	4,120,334	61,530	933,183	207,710	2,513,714
CURED . . . . . POUNDS	790,050	367,730	1,475,700	1,510,355	585,000	415,000
INDUSTRIAL . . . . . -	-	2,324,480	-	1,142,691	-	767,549
TOTAL . . . . . -	-	38,624,526	-	29,076,168	-	18,908,530

1/ INCLUDED IN UNCLASSIFIED ITEMS.

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, 1964

(VALUE IN THOUSANDS OF DOLLARS)

ITEM	QUANTITY	VALUE
PACKAGED PRODUCTS, FRESH AND FROZEN:		
NOT BREADED:		
FISH . . . . .	1,000 POUNDS	
SHELLFISH . . . . .	DO	8,773
BREADED:		6,808
FISH . . . . .	DO	15,955
SHELLFISH . . . . .	DO	19,982
SPECIALTIES . . . . .	DO	7,824
CANNED . . . . .	1,000 STD. CASES	4,138
CURED:		18,485
SALTED (INCLUDES REFRIGERATED). . . . .	1,000 POUNDS	12,934
SMOKED. . . . .	DO	2,149
INDUSTRIAL . . . . .	-	22,762
TOTAL . . . . .	-	1,116
		22,173
		5,646
	-	86,609

## VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964

(THOUSANDS OF DOLLARS)

STATE	VALUE
NEW YORK . . . . .	38,625
NEW JERSEY . . . . .	29,076
PENNSYLVANIA . . . . .	14,331
DELAWARE . . . . .	4,577
TOTAL . . . . .	86,609

## WHOLESALING AND MANUFACTURING, 1964

ITEM	NEW YORK	NEW JERSEY	PENNSYLVANIA	DELAWARE	TOTAL
WHOLESALING AND MANUFACTURING:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ESTABLISHMENTS. . . . .	303	112	48	21	484
PERSONS ENGAGED:					
AVERAGE FOR SEASON. . . . .	3,358	2,383	1,190	505	7,436
AVERAGE FOR YEAR. . . . .	3,164	1,883	878	310	6,235

# MIDDLE ATLANTIC FISHERIES

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## NEW YORK

### OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON		PURSE SEINES		OTTER TRAWLS		POUND NETS, FISH
	MENHADEN	TUNA	FISH	LOBSTER			
FISHERMEN:							
ON VESSELS . . . . .	5	195	12	594	28		27
ON BOATS AND SHORE:							
REGULAR . . . . .	67	-	-	14	-		22
CASUAL. . . . .	36	-	-	3	-		14
TOTAL . . . . .	108	195	12	611	28		63
VESSELS, MOTOR . . . . .	2	12	1	193	7		7
GROSS TONNAGE . . . . .	22	2,845	387	8,115	591		76
BOATS:							
MOTOR . . . . .	39	23	1	8	-		16
OTHER . . . . .	3	-	2	-	-		11
GEAR:							
NUMBER . . . . .	39	12	1	201	7		107
LENGTH, YARDS . . . . .	10,950	5,060	940	-	-		-
YARDS AT MOUTH. . . . .	-	-	-	4,802	202		-
ITEM	FYKE AND HOOP NETS, FISH		POTS AND TRAPS			GILL NETS	
	CONCH	EEL	FISH	LOBSTER		ANCHOR, SET OR STAKE	
FISHERMEN:							
ON VESSELS . . . . .	-	-	-	4	18	-	-
ON BOATS AND SHORE:							
REGULAR . . . . .	7	-	9	-	20		9
CASUAL. . . . .	22	1	14	-	30		46
TOTAL . . . . .	29	1	23	6	68		55
VESSELS, MOTOR . . . . .	-	-	-	2	9		-
GROSS TONNAGE . . . . .	-	-	-	14	115		-
BOATS, MOTOR . . . . .	20	1	16	1	41		39
GEAR:							
NUMBER . . . . .	87	50	682	1,950	6,350		59
SQUARE YARDS . . . . .	-	-	-	-	-		75,148
ITEM	GILL NETS - CONTINUED		LINES		HARPOONS, SWORDFISH		SPEARS
	DRIFT, SHAD	RUNAROUND	HAND	LONG OR SET WITH HOOKS			
FISHERMEN:							
ON VESSELS . . . . .	-	4	-	25	18		-
ON BOATS AND SHORE:							
REGULAR . . . . .	-	14	125	24	-		1
CASUAL. . . . .	70	1	685	15	-		17
TOTAL . . . . .	70	19	810	64	18		18
VESSELS, MOTOR . . . . .	-	2	-	9	5		-
GROSS TONNAGE . . . . .	-	17	-	174	152		-
BOATS:							
MOTOR . . . . .	35	8	435	21	1		18
OTHER . . . . .	-	-	50	-	-		-
GEAR:							
NUMBER . . . . .	35	10	810	58	5		18
SQUARE YARDS . . . . .	103,484	16,000	-	49,595	-		-
HOOKS OR BAITS . . . . .	-	-	1,000	-	-		-
ITEM	DREDGES			TONS		RAKES	TOTAL, EXCLUSIVE OF DUPLI- CATION
	CLAM	OYSTER, COMMON	SCALLOP	OYSTER	OTHER		
FISHERMEN:							
ON VESSELS . . . . .	86	35	93	-	-		1,054
ON BOATS AND SHORE:							
REGULAR . . . . .	3	2	319	15	706		1,338
CASUAL. . . . .	-	-	530	-	1,161	604	2,934
TOTAL . . . . .	89	37	942	15	1,867	1,025	5,326
VESSELS, MOTOR . . . . .	34	10	10	-	-		272
GROSS TONNAGE . . . . .	900	394	1,209	-	-		13,903
BOATS:							
MOTOR . . . . .	1	1	524	15	1,136	1,032	2,520
OTHER . . . . .	-	-	-	-	20	25	111
GEAR:							
NUMBER . . . . .	37	20	1,592	15	1,867	1,629	-
YARDS AT MOUTH. . . . .	28	31	1,642	-	-	-	-

## MIDDLE ATLANTIC FISHERIES

## NEW YORK - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		PURSE SEINES			
			MENHADEN		TUNA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	12,000	\$502	-	-	-	-
BLUUFISH . . . . .	122,400	21,702	-	-	90,000	\$5,700
CARP . . . . .	3,100	155	-	-	-	-
CATFISH . . . . .	400	40	-	-	-	-
MENHADEN . . . . .	-	-	41,566,900	\$499,950	-	-
SCUP OR PORGY . . .	496,300	46,112	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY . . .	3,100	657	-	-	-	-
SHAD . . . . .	200	20	-	-	-	-
SILVERSIDES . . . . .	157,400	15,865	-	-	-	-
STRIPED BASS . . . . .	687,100	98,524	-	-	-	-
TAUTOG . . . . .	6,000	633	-	-	-	-
WHITE PERCH . . . . .	114,900	13,787	-	-	-	-
UNCLASSIFIED, FOR FOOD . . . . .	17,200	1,720	-	-	-	-
TOTAL . . . . .	1,620,100	199,307	41,566,900	499,950	90,000	5,700
SPECIES	OTTER TRAWLS				POUND NETS, FISH	
	FISH		LOBSTER		POUND NETS, FISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANGLERFISH . . . . .	25,900	\$691	-	-	1,000	\$40
BLUEFISH . . . . .	20,300	3,615	-	-	137,500	24,375
BONITO . . . . .	-	-	-	-	3,600	634
BUTTERFISH . . . . .	968,200	114,828	-	-	98,400	11,633
COD . . . . .	258,400	36,131	-	-	-	-
EELS:						
COMMON . . . . .	-	-	-	-	39,800	6,038
CONGER . . . . .	2,000	41	-	-	-	-
FLOUNDERS:						
BLACKBACK . . . . .	1,379,100	70,871	-	-	32,500	1,669
FLUKE . . . . .	1,812,800	435,603	-	-	16,500	3,965
GRAY SOLE . . . . .	12,400	1,757	-	-	-	-
YELLOWTAIL . . . . .	3,512,900	230,198	-	-	-	-
HADDOCK . . . . .	47,000	5,666	-	-	-	-
HAKE:						
RED . . . . .	665,800	17,036	-	-	200	5
WHITE . . . . .	1,600	54	-	-	-	-
HERRING, SEA . . . . .	8,500	285	-	-	146,500	2,238
KING WHITING OR "KINGFISH".	4,200	544	-	-	7,400	955
MACKEREL . . . . .	59,000	7,720	-	-	42,300	5,533
MENHADEN . . . . .	-	-	-	-	612,800	15,776
POLLOCK . . . . .	2,000	152	-	-	-	-
SCUP OR PORGY . . . . .	7,256,000	681,984	-	-	564,500	54,895
SEA BASS . . . . .	305,600	58,678	-	-	1,600	306
SEA ROBIN . . . . .	-	-	-	-	22,000	500
SEA TROUT OR WEAKFISH, GRAY . . . .	38,000	8,053	-	-	14,300	3,030
SHAD . . . . .	-	-	-	-	62,500	6,399
SHARKS:						
GRAYFISH . . . . .	40,800	1,903	-	-	28,600	1,334
UNCLASSIFIED . . . . .	-	-	-	-	2,300	115
SKATES . . . . .	14,300	516	-	-	-	-
STRIPED BASS . . . . .	193,300	27,715	-	-	17,300	2,480
STURGEON . . . . .	6,700	1,782	-	-	-	-
SWEELFISH . . . . .	72,100	3,031	-	-	477,800	20,122
TAUTOG . . . . .	-	-	-	-	12,300	458
TILEFISH . . . . .	82,100	7,728	-	-	-	-
TUNA:						
BLUDEFIN . . . . .	-	-	-	-	3,000	250
LITTLE . . . . .	-	-	-	-	2,200	130
WHITE PERCH . . . . .	-	-	-	-	16,900	2,028
WHITING . . . . .	3,122,400	159,283	-	-	800	40
UNCLASSIFIED:						
FG FOOD . . . . .	259,000	24,350	-	-	45,600	4,580
BAIT REDUCTION AND ANIMAL FOOD . . . . .	117,692,700	883,451	-	-	220,000	2,200
LOBSTERS, NORTHERN . . . . .	67,500	32,252	232,000	\$112,380	-	-
CONCHS . . . . .	14,200	2,375	-	-	-	-
SQUID . . . . .	989,900	72,743	-	-	17,200	1,265
TOTAL . . . . .	138,937,700	2,891,846	232,000	112,380	2,870,600	172,993

(CONTINUED ON NEXT PAGE)

# MIDDLE ATLANTIC FISHERIES

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## NEW YORK - CATCH BY GEAR, 1964 - Continued

SPECIES	FYKE AND HOOP NETS, FISH		POTS AND TRAPS			
			CONCH		EEL	
ALEWIVES . . . . .	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CARP . . . . .	23,400	\$936	-	-	-	-
CATFISH . . . . .	1,700	65	-	-	-	-
EELS, COMMON . . . . .	2,500	345	-	-	-	-
FUNDERS, BLACKBACK . . . . .	3,500	530	-	-	50,400	\$7,541
SUCKERS . . . . .	27,200	1,398	-	-	-	-
SUNFISH . . . . .	400	55	-	-	-	-
TOMCOD . . . . .	200	40	-	-	-	-
WHITE PERCH . . . . .	2,500	750	-	-	-	-
YELLOW PERCH . . . . .	1,800	195	-	-	-	-
CONCHS . . . . .	400	60	-	-	-	-
TOTAL . . . . .	63,600	4,394	11,200	2,065	50,400	7,541
POTS AND TRAPS - CONTINUED						
SPECIES	FISH		LOBSTER		ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	-	-	-	-	1,600	\$58
BLUEFISH . . . . .	-	-	-	-	51,600	9,146
CARP . . . . .	-	-	-	-	900	45
CATFISH . . . . .	-	-	-	-	100	12
EELS, CONGER . . . . .	900	\$18	-	-	-	-
SEA BASS . . . . .	182,400	34,903	7,100	\$1,360	-	-
SHAD . . . . .	-	-	-	-	45,300	9,277
STRIPED BASS . . . . .	-	-	-	-	27,600	2,043
STURGEON . . . . .	-	-	-	-	3,100	568
WHITE PERCH . . . . .	-	-	-	-	3,900	395
UNCLASSIFIED, FOR FOOD . . . . .	-	-	-	-	5,800	590
LOBSTERS, NORTHERN . . . . .	-	-	247,100	160,615	-	-
TOTAL . . . . .	183,300	34,921	254,200	161,975	139,800	22,114
GILL NETS - CONTINUED						
SPECIES	DRIFT, SHAD			RUNAROUND		
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH . . . . .	-	-	114,100	\$20,229	139,100	\$24,659
BONITO . . . . .	-	-	-	-	2,000	350
CARP . . . . .	500	\$23	-	-	-	-
COD . . . . .	-	-	-	-	13,000	1,818
MACKEREL . . . . .	-	-	-	-	62,700	8,207
MENHADEN . . . . .	-	-	25,000	500	-	-
SCUP OR PORGY . . . . .	-	-	-	-	7,000	657
SEA BASS . . . . .	-	-	-	-	3,000	574
SEA TROUT OR WEAKFISH, GRAY . . . . .	-	-	500	105	-	-
SHAD . . . . .	32,900	7,716	-	-	-	-
STRIPED BASS . . . . .	1,300	162	25,800	3,699	42,000	6,021
STURGEON . . . . .	300	60	-	-	-	-
TAUTOG . . . . .	-	-	-	-	1,800	67
TUNA; . . . . .	-	-	-	-	-	-
BLUEFIN . . . . .	-	-	-	-	5,200	445
LITTLE . . . . .	-	-	-	-	500	30
UNCLASSIFIED, FOR FOOD . . . . .	-	-	10,900	1,090	5,000	500
TOTAL . . . . .	35,600	7,961	176,300	25,623	281,300	43,328
LINES - CONTINUED						
SPECIES	LONG OR SET WITH HOOKS			HARPOONS		
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH . . . . .	2,200	\$305	-	-	-	-
COD . . . . .	245,100	34,271	-	-	-	-
EELS, COMMON . . . . .	-	-	-	-	80,100	\$12,146
SHARKS, GRAYFISH . . . . .	3,500	163	-	-	-	-

(CONTINUED ON NEXT PAGE)

## MIDDLE ATLANTIC FISHERIES

## NEW YORK - CATCH BY GEAR, 1964 - Continued

SPECIES	LINES - CONTINUED		HARPOONS		SPEARS	
	LONG OR SET WITH HOOKS					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SWORDFISH . . . . .	154,700	\$52,205	16,200	\$5,438	-	-
TUNA, BLUE IN . . . . .	12,000	1,025	-	-	-	-
UNCLASSIFIED, FOR FOOD . . . . .	5,000	500	-	-	-	-
TOTAL . . . . .	422,500	88,469	16,200	5,438	80,100	\$12,146
DREDGES						
SPECIES	CLAM		OYSTER, COMMON			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS:						
HARD, PUBLIC . . . . .	2,446,100	\$1,826,904	-	-	-	-
SURF . . . . .	1,110,100	99,357	-	-	-	-
CONCHS . . . . .	15,500	3,549	-	-	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING . . . . .	-	-	14,200	\$21,025		
FALL . . . . .	-	-	25,200	37,625		
PRIVATE:						
SPRING . . . . .	-	-	77,300	113,421		
FALL . . . . .	-	-	86,700	131,514		
TOTAL . . . . .	3,571,700	1,929,810	203,400	303,585		
DREDGES - CONTINUED						
SPECIES	SCALLOP		OYSTER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS:						
BLACKBACK . . . . .	1,800	\$93	-	-	-	-
DAB . . . . .	900	45	-	-	-	-
FLUKE . . . . .	24,500	5,880	-	-	-	-
GRAY SOLE . . . . .	2,200	315	-	-	-	-
YELLOWTAIL . . . . .	48,900	3,205	-	-	-	-
OYSTERS, MARKET, PUBLIC, FALL	-	-	10,100	\$11,452		
SCALLOPS:						
BAY . . . . .	687,100	731,474	-	-	-	-
SEA . . . . .	2,044,300	1,114,682	-	-	-	-
TOTAL . . . . .	2,809,700	1,855,694	10,100	11,452		
TONGS - CONTINUED						
SPECIES	OTHER		RAKES			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS:						
HARD, PUBLIC . . . . .	1,799,600	\$1,408,334	1,156,600	\$900,307		
RAZOR . . . . .	-	-	5,800	1,464		
SOFT, PUBLIC . . . . .	-	-	180,800	55,677		
SURF . . . . .	-	-	107,600	9,495		
MUSSELS, SEA . . . . .	63,000	8,505	61,900	8,007		
TOTAL . . . . .	1,862,600	1,416,839	1,512,800	974,950		

# MIDDLE ATLANTIC FISHERIES

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## NEW JERSEY

### OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	STOP SEINES	PURSE SEINES		
			MENHADEN	TUNA	OTHER
FISHERMEN:					
ON VESSELS . . . . .	-	-	459	50	146
ON BOATS AND SHORE:					
REGULAR . . . . .	37	4	-	-	20
CASUAL . . . . .	20	-	-	-	-
TOTAL . . . . .	57	4	459	50	166
VESSELS, MOTOR . . . . .	-	-	27	5	18
GROSS TONNAGE . . . . .	-	-	5,528	606	312
BOATS:					
MOTOR . . . . .	35	4	54	5	21
OTHER . . . . .	4	-	-	-	10
GEAR:					
NUMBER . . . . .	38	4	27	5	24
LENGTH, YARDS . . . . .	4,178	1,600	10,540	3,600	8,425
ITEM	BEAM TRAWLS, SHRIMP	OTTER TRAWLS		WEIRS	POUND NETS, FISH
		FISH	LOBSTER		
FISHERMEN:					
ON VESSELS . . . . .	-	496	130	-	55
ON BOATS AND SHORE:					
REGULAR . . . . .	-	27	3	-	31
CASUAL . . . . .	3	-	-	6	-
TOTAL . . . . .	3	523	133	6	86
VESSELS, MOTOR . . . . .	-	147	33	-	13
GROSS TONNAGE . . . . .	-	6,675	1,811	-	104
BOATS:					
MOTOR . . . . .	3	13	1	3	7
OTHER . . . . .	-	-	-	3	-
GEAR:					
NUMBER . . . . .	3	160	34	5	46
YARDS AT MOUTH . . . . .	9	3,845	929	-	-
ITEM	FYKE AND HOOP NETS, FISH	POTS AND TRAPS			
		CRAB	EEL	FISH	LOBSTER
FISHERMEN:					
ON VESSELS . . . . .	1	7	-	22	15
ON BOATS AND SHORE:					
REGULAR . . . . .	18	40	22	29	9
CASUAL . . . . .	-	3	8	-	8
TOTAL . . . . .	19	50	30	51	24
VESSELS, MOTOR . . . . .	1	5	-	11	8
GROSS TONNAGE . . . . .	8	57	-	106	82
BOATS:					
MOTOR . . . . .	18	43	28	20	7
OTHER . . . . .	-	-	3	-	8
GEAR, NUMBER . . . . .	49	4,059	611	18,154	3,230
GILL NETS					
ITEM	ANCHOR, SET OR STAKE	DRIFT		RUNAROUND	
		SHAD	OTHER		
FISHERMEN:					
ON VESSELS . . . . .	11	2	53	NUMBER	
ON BOATS AND SHORE:					
REGULAR . . . . .	46	10	24	10	
CASUAL . . . . .	21	8	8	26	
TOTAL . . . . .	78	20	85	1	
VESSELS, MOTOR . . . . .	5	1	23	NUMBER	
GROSS TONNAGE . . . . .	50	14	371	5	
BOATS:				36	
MOTOR . . . . .	38	11	17	14	
OTHER . . . . .	1	1	-	-	
GEAR:					
NUMBER . . . . .	47	12	41	19	
SQUARE YARDS . . . . .	90,003	18,706	310,697	134,833	

(CONTINUED ON NEXT PAGE)

## MIDDLE ATLANTIC FISHERIES

## NEW JERSEY - OPERATING UNITS BY GEAR, 1964 - Continued

ITEM	LINES				
	HAND	TROLL	LONG OR SET WITH HOOKS	TROT WITH BAITS	
FISHERMEN: ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	
ON BOATS AND SHORE: REGULAR . . . . .	20	10	105	-	
CASUAL . . . . .	5	4	21	10	
52	29				
TOTAL . . . . .	77	43	126	10	
VESSELS, MOTOR . . . . .	11	5	37	-	
GROSS TONNAGE . . . . .	150	52	807	158	
BOATS, MOTOR . . . . .	21	32	10	6	
GEAR: NUMBER . . . . .	95	60	47	6	
HOOKS OR BAITS . . . . .	119	60	120,000	19,000	
ITEM	PUSH NETS	HARPOONS, SWORDFISH	DREDGES		
			CLAM	CRAB	MUSSEL
FISHERMEN: ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON BOATS AND SHORE: REGULAR . . . . .	-	13	191	13	2
CASUAL . . . . .	-	-	-	5	-
6	-	-	-	-	-
TOTAL . . . . .	6	13	191	18	2
VESSELS, MOTOR . . . . .	-	3	58	5	1
GROSS TONNAGE . . . . .	-	158	2,981	52	13
BOATS: MOTOR . . . . .	-	-	-	-	-
OTHER . . . . .	6	-	-	5	-
GEAR: NUMBER . . . . .	6	3	59	17	1
YARDS AT MOUTH . . . . .	-	-	82	26	3
ITEM	DREDGES - CONTINUED			TONGS	
	OYSTER, COMMON	SCALLOP	OTHER	OYSTER	OTHER
FISHERMEN: ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON BOATS AND SHORE: REGULAR . . . . .	226	95	16	-	-
CASUAL . . . . .	18	166	-	115	345
9	-	-	-	67	530
TOTAL . . . . .	253	261	16	182	875
VESSELS, MOTOR . . . . .	30	10	8	-	-
GROSS TONNAGE . . . . .	917	993	168	-	-
BOATS: MOTOR . . . . .	12	90	-	142	705
OTHER . . . . .	-	-	-	-	125
GEAR: NUMBER . . . . .	78	200	8	182	875
YARDS AT MOUTH . . . . .	78	220	26	-	-
ITEM	RAKES	HOES	BY HAND	TOTAL, EXCLUSIVE OF DUPLI- CATION	
FISHERMEN: ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	
ON BOATS AND SHORE: REGULAR . . . . .	-	-	-	1,792	
CASUAL . . . . .	225	4	195	606	
405	10	445	997		
TOTAL . . . . .	630	14	640	3,395	
VESSELS, MOTOR . . . . .	-	-	-	344	
GROSS TONNAGE . . . . .	-	-	-	18,548	
BOATS: MOTOR . . . . .	561	14	510	1,303	
OTHER . . . . .	45	-	37	176	
GEAR, NUMBER . . . . .	630	14	-	-	

# MIDDLE ATLANTIC FISHERIES

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## NEW JERSEY - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		STOP SEINES		PURSE SEINES	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	7,200	\$264	-	-	-	-
CARP . . . . .	129,100	8,310	52,000	\$3,640	-	-
CATFISH . . . . .	37,800	3,514	-	-	-	-
FLOUNDERS, BLACKBACK	21,700	1,929	-	-	-	-
MENHADEN . . . . .	-	-	-	-	54,308,400	\$765,750
MULLET . . . . .	42,000	8,400	-	-	-	-
SHAD . . . . .	18,900	2,944	-	-	-	-
STRIPED BASS . . . . .	17,400	4,416	-	-	-	-
WHITE PERCH . . . . .	50,200	7,370	-	-	-	-
YELLOW PERCH . . . . .	400	56	-	-	-	-
TOTAL . . . . .	324,600	37,163	52,000	3,640	54,308,400	765,750
SPECIES	PURSE SEINES - CONTINUED				BEAM TRAWLS	
	TUNA		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH . . . . .	15,900	\$2,360	47,400	\$8,258	-	-
BUTTERFISH . . . . .	-	-	900	44	-	-
DRUM, BLACK . . . . .	-	-	23,000	690	-	-
FLOUNDERS, FLUKE . . . . .	-	-	200	50	-	-
MENHADEN . . . . .	-	-	1,689,800	50,695	-	-
SCUP OR PORGY . . . . .	-	-	828,700	102,123	-	-
SEA TROUT OR WEAKFISH, GRAY . . . . .	-	-	9,600	1,785	-	-
SHARKS, UNCLASSIFIED . . . . .	-	-	200	7	-	-
STRIPED BASS . . . . .	-	-	14,300	3,445	-	-
TAUTOG . . . . .	-	-	500	23	-	-
TUNA, BLUEFIN . . . . .	2,729,500	136,476	-	-	-	-
UNCLASSIFIED, FOR FOOD . . . . .	-	-	100	4	-	-
SHRIMP . . . . .	-	-	-	-	2,000	\$2,000
TOTAL . . . . .	2,745,400	138,836	2,614,700	167,124	2,000	2,000
SPECIES	OTTER TRAWLS				WEIRS	
	FISH		LOBSTER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH . . . . .	56,600	\$9,901	-	-	-	-
BONITO . . . . .	100	10	-	-	-	-
BUTTERFISH . . . . .	863,100	101,293	104,100	\$11,008	-	-
COD . . . . .	13,900	1,936	-	-	-	-
DRUM, BLACK . . . . .	200	8	-	-	-	-
EELS . . . . .	-	-	-	-	-	-
COMMON CONGER . . . . .	500	10	-	-	10,800	\$4,320
FLOUNDERS . . . . .	-	-	-	-	-	-
BLACKBACK . . . . .	300,000	15,475	-	-	-	-
FLUKE . . . . .	3,169,000	745,110	453,600	107,978	-	-
GRAY SOLE . . . . .	29,800	1,636	-	-	-	-
YELLOWTAIL . . . . .	10,000	472	-	-	-	-
HADDOCK . . . . .	500	35	-	-	-	-
HAKE . . . . .	-	-	-	-	-	-
RED . . . . .	593,200	18,261	-	-	-	-
WHITE . . . . .	59,000	3,105	-	-	-	-
HERRING, SEA . . . . .	17,200	457	-	-	-	-
KING WHITING OR "KINGFISH" . . . . .	22,600	1,903	-	-	-	-
MACKEREL . . . . .	47,200	7,394	-	-	-	-
MENHADEN . . . . .	1,900	48	-	-	-	-
POLLOCK . . . . .	1,700	107	-	-	-	-
SCUP OR PORGY . . . . .	7,696,400	742,872	-	-	-	-
SEA BASS . . . . .	461,600	67,401	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY . . . . .	520,000	41,900	-	-	-	-
SHAD . . . . .	3,800	207	-	-	-	-
SHARKS, UNCLASSIFIED . . . . .	900	28	-	-	-	-
STRIPED BASS . . . . .	865,200	148,444	-	-	-	-
STURGEON . . . . .	6,500	1,117	-	-	-	-
SWELLFISH . . . . .	99,800	3,979	-	-	-	-
SWORDFISH . . . . .	100	27	-	-	-	-
TAUTOG . . . . .	4,700	136	-	-	-	-
TILEFISH . . . . .	33,100	2,122	33,700	2,026	-	-
WHITE PERCH . . . . .	500	14	-	-	-	-
WHITING . . . . .	3,265,600	153,689	-	-	-	-
UNCLASSIFIED; FOR FOOD . . . . .	19,100	1,053	-	-	-	-
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	4,201,100	31,612	-	-	-	-

(CONTINUED ON NEXT PAGE)

## MIDDLE ATLANTIC FISHERIES

## NEW JERSEY - CATCH BY GEAR, 1964 - Continued

SPECIES	OTTER TRAWLS				WEIRS	
	FISH		LOBSTER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS, BLUE, ROCK . . . . .	8,300	\$274	33,600	\$1,137	-	-
HORSESHOE CRABS . . . . .	-	-	-	-	354,000	\$1,594
LOBSTERS, NORTHERN . . . . .	98,700	46,940	886,800	420,500	-	-
CONCHES . . . . .	32,100	4,801	-	-	-	-
SCALLOPS, SEA . . . . .	900	533	-	-	-	-
SQUID . . . . .	376,800	21,726	-	-	-	-
TURTLES, LOGGERHEAD . . . . .	100	10	-	-	-	-
TOTAL . . . . .	22,900,800	2,176,149	1,512,000	542,649	364,800	5,914
SPECIES	POUND NETS, FISH		FYKE AND HOOP NETS, FISH		POTS AND TRAPS	
	POUNDS		POUNDS		CRAB	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	-	-	7,000	\$280	-	-
AMBERJACK . . . . .	100	\$3	-	-	-	-
BILUFISH . . . . .	89,400	13,272	-	-	-	-
BUTTERFISH . . . . .	195,400	20,149	-	-	-	-
DRUM, BLACK . . . . .	7,400	424	-	-	-	-
EELS, COMMON . . . . .	500	71	-	-	-	-
FLOUNDERS:						
BLACKBACK . . . . .	2,000	113	32,000	3,100	-	-
FLUKE . . . . .	37,100	10,084	-	-	-	-
HAKE, RED . . . . .	5,300	218	-	-	-	-
HEMINGWAY, SEA . . . . .	283,800	5,708	-	-	-	-
KING WHITING OR "KINGFISH"	-	-	300	28	-	-
MACKEREL . . . . .	-	-	600	67	-	-
MENHADEN . . . . .	8,208,500	151,070	-	-	-	-
SCUP OR PORGY . . . . .	19,200	1,764	-	-	-	-
SEA BASS . . . . .	100	20	-	-	-	-
SEA ROBIN . . . . .	43,500	651	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY .	6,200	1,107	-	-	-	-
SHAD . . . . .	123,600	11,744	100	20	-	-
SHARKS:						
GRAYFISH . . . . .	500	15	-	-	-	-
UNCLASSIFIED . . . . .	400	12	-	-	-	-
SKATES . . . . .	500	9	-	-	-	-
SPANISH MACKEREL . . . . .	100	9	-	-	-	-
STRIPED BASS . . . . .	21,900	3,273	-	-	-	-
STURGEON . . . . .	6,900	1,425	-	-	-	-
SWELLFISH . . . . .	30,300	1,126	-	-	-	-
TAUTOG . . . . .	5,500	183	-	-	-	-
WHITE PERCH . . . . .	100	10	24,400	3,220	-	-
WHITING . . . . .	500	21	-	-	-	-
UNCLASSIFIED:						
FOR FOOD . . . . .	700	35	-	-	-	-
BAIT, REDUCTION, AND	-	-	-	-	-	-
ANIMAL FOOD . . . . .	537,300	4,029	-	-	-	-
CRABS, BLUE:						
HARD . . . . .	-	-	-	-	494,600	\$72,161
SOFT AND PEELER . . . . .	-	-	-	-	9,600	1,919
SQUID . . . . .	100	9	-	-	-	-
TURTLES, LOGGERHEAD . . . . .	1,200	109	-	-	-	-
TOTAL . . . . .	9,629,200	226,773	63,500	6,620	504,200	74,080
	POTS AND TRAPS - CONTINUED				GILL NETS	
SPECIES	FISH		LOBSTER		TURTLE	
	POUNDS		POUNDS		ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
EELS, CONGER . . . . .	3,300	\$68	800	\$70	-	-
GRUNTS . . . . .	500	28	-	-	-	-
HAKE, RED . . . . .	28,700	594	-	-	-	-
KING WHITING OR "KINGFISH"	100	8	-	-	-	-
MENHADEN . . . . .	-	-	-	-	500	\$10
SCUP OR PORGY . . . . .	6,100	510	-	-	-	-
SEA BASS . . . . .	1,723,900	266,087	1,800	483	-	-
SHAD . . . . .	-	-	-	-	248,800	34,509
STRIPED BASS . . . . .	-	-	-	-	56,900	10,741
STURGEON . . . . .	-	-	-	-	100	12
SWELLFISH . . . . .	100	4	-	-	-	-
TAUTOG . . . . .	25,700	528	-	-	-	-
WHITE PERCH . . . . .	-	-	-	-	3,500	352
UNCLASSIFIED, FOR FOOD . . . . .	3,700	93	-	-	300	15
CRABS, BLUE, ROCK . . . . .	2,800	100	100	4	-	-
LOBSTERS, NORTHERN . . . . .	15,800	9,457	59,300	39,504	47,400	\$9,742
TURTLES, SNAPPER . . . . .	-	-	-	-	-	-
TOTAL . . . . .	1,810,700	277,477	62,000	40,061	47,400	5,742
	(CONTINUED ON NEXT PAGE)					

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# MIDDLE ATLANTIC FISHERIES

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## NEW JERSEY - CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS - CONTINUED					
	DRIFT				RUNAROUND	
	SHAD		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH . . . . .	-	-	17,600	\$3,208	300,700	\$47,704
BONITO . . . . .	-	-	3,600	436	3,500	717
BUTTERFISH . . . . .	-	-	300	38	100	8
COD . . . . .	-	-	2,300	178	-	-
DRUM, BLACK . . . . .	-	-	1,300	36	-	-
HERRING, SEA . . . . .	-	-	263,400	41,064	-	-
MACKEREL . . . . .	-	-	65,500	1,824	4,100	155
MEGALOPUS . . . . .	-	-	-	-	100	13
SCUP OR PORGY . . . . .	-	-	-	-	5,600	1,008
SEA TROUT OR WEAKFISH, GRAY . . . . .	400	\$42	2,900	718	-	-
SHAD . . . . .	34,900	4,844	-	-	-	-
SHARKS, UNCLASSIFIED . . . . .	-	-	900	43	1,400	48
SPOT . . . . .	-	-	100	29	-	-
STRIPED BASS . . . . .	100	12	5,700	1,194	100	19
WHITING . . . . .	-	-	4,400	117	-	-
UNCLASSIFIED, FOR FOOD . . . . .	-	-	5,100	257	500	33
TOTAL . . . . .	35,400	4,898	373,100	49,142	316,100	49,705
SPECIES	LINES					
	HAND		TROLL		LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH . . . . .	5,700	\$846	7,700	\$1,494	-	-
BONITO . . . . .	200	35	2,100	213	-	-
CATFISH . . . . .	3,200	320	-	-	-	-
COD . . . . .	1,100	162	-	-	267,700	\$42,838
EELS, CONGER . . . . .	-	-	-	-	300	15
FLOUNDER, FLURE . . . . .	-	-	-	-	-	-
HAKE, RED . . . . .	400	96	-	-	-	-
HAKE, RED . . . . .	200	4	-	-	500	23
KING WHITING OR "KINGFISH" . . . . .	-	-	100	10	-	-
MACKEREL . . . . .	2,300	274	300	48	-	-
MARLIN . . . . .	-	-	-	-	500	10
SCUP OR PORGY . . . . .	500	44	-	-	-	-
SEA BASS . . . . .	6,100	997	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY . . . . .	400	72	-	-	-	-
SHARKS, UNCLASSIFIED . . . . .	-	-	100	4	3,600	195
SILVER BASS . . . . .	8,800	1,497	5,200	816	-	-
SWELLFISH . . . . .	700	30	-	-	302,700	102,063
SWORDFISH . . . . .	-	-	-	-	-	-
TAUTOG . . . . .	500	14	-	-	-	-
TUNA, BLUEFIN . . . . .	-	-	-	-	28,800	2,626
WHITE PERCH . . . . .	400	86	-	-	-	-
WHITE PERCH . . . . .	300	9	-	-	-	-
WHITE PERCH . . . . .	100	10	-	-	-	-
TOTAL . . . . .	30,900	4,497	15,500	2,585	604,100	147,772
SPECIES	LINES - CONTINUED		PUSH NETS		HARPOONS	
	TROT WITH BAITS					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SWORDFISH . . . . .	-	-	-	-	4,100	\$1,248
CRABS, BLUE, HARD . . . . .	700	\$108	-	-	-	-
SHRIMP . . . . .	-	-	400	\$400	-	-
TOTAL . . . . .	700	108	400	400	4,100	1,248
SPECIES	DREDGES					
	CLAM		CRAB		MUSSEL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SEA BASS . . . . .	1,400	\$321	-	-	-	-
TAUTOG . . . . .	100	4	-	-	-	-
CRABS, BLUE, HARD . . . . .	-	-	71,300	\$8,672	-	-
CLAMS:						
HARD, PUBLIC . . . . .	19,100	6,116	-	-	-	-
SURF . . . . .	36,875,200	2,503,719	-	-	-	-
CONCHS . . . . .	1,800	253	-	-	-	-
MUSSELS, SEA . . . . .	-	-	-	-	600	\$300
TOTAL . . . . .	36,897,600	2,510,423	71,300	8,872	600	\$300

(CONTINUED ON NEXT PAGE)

## MIDDLE ATLANTIC FISHERIES

## NEW JERSEY - CATCH BY GEAR, 1964 - Continued

SPECIES	DREDGES - CONTINUED					
	OYSTER, COMMON		SCALLOP		OTHER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS:						
BLACKBACK . . . . .	-	-	800	\$30	700	\$34
FLUKE . . . . .	-	-	2,600	490	7,400	1,687
YELLOWTAIL . . . . .	-	-	700	35	-	-
UNCLASSIFIED, FOR FOOD . . . . .	-	-	400	19	-	-
CRABS, BLUE, HARD . . . . .	-	-	-	-	2,900	346
CLAMS, HARD, PRIVATE . . . . .	2,800	\$1,120	-	-	-	-
CONCHS . . . . .	-	-	-	-	157,000	34,012
OYSTERS, MARKET, PRIVATE:						
SPRING . . . . .	10,200	13,843	-	-	-	-
FALL . . . . .	990,000	911,461	-	-	-	-
SCALLOPS:						
BAY. . . . .	-	-	376,300	154,911	-	-
SEA. . . . .	-	-	139,400	79,223	-	-
TOTAL. . . . .	1,003,000	926,424	520,200	234,708	168,000	36,079
SPECIES	TONGS				RAKES	
	OYSTER		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS, HARD, PUBLIC. . . . .	-	-	734,100	\$318,587	561,900	\$243,987
OYSTERS, MARKET; PUBLIC:						
SPRING . . . . .	5,000	\$5,663	-	-	-	-
FALL . . . . .	87,100	86,048	-	-	-	-
PRIVATE:						
SPRING . . . . .	3,300	4,455	-	-	-	-
FALL . . . . .	2,100	2,940	-	-	-	-
TERRAPIN . . . . .	-	-	-	-	3,900	1,365
TURTLES:						
SNAPPER. . . . .	-	-	-	-	5,200	624
UNCLASSIFIED . . . . .	-	-	-	-	2,000	100
TOTAL. . . . .	97,500	99,106	734,100	318,587	573,000	246,076
SPECIES	HOES			BY HAND		
	POUNDS	VALUE	POUNDS	VALUE		
CLAMS:						
HARD, PUBLIC . . . . .	-	-	576,100	\$250,359		
SOFT, PUBLIC . . . . .	12,600	\$5,323	8,700	3,642		
TOTAL. . . . .	12,600	5,323	584,800	254,001		

## MIDDLE ATLANTIC FISHERIES

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## DELAWARE

## OPERATING UNITS BY GEAR, 1964

ITEM	H A U L S E I N E S, C O M M O N	P U R S E S E I N E S, M E H A D E N	O T T E R T R A W L S, F I S H	F Y K E A N D H O O P N E T S	
				F I S H	T U R T L E
FISHERMEN:					
ON VESSELS . . . . .	-	323	6	-	-
ON BOATS AND SHORE:					
REGULAR . . . . .	-	-	2	8	-
CASUAL . . . . .	9	-	-	34	4
TOTAL . . . . .	9	323	8	42	4
VESSELS, MOTOR:					
GROSS TONNAGE . . . . .	-	19	3	-	-
BOATS:					
MOTOR . . . . .	-	3,816	78	-	-
OTHER . . . . .	1	38	1	29	3
GEAR:					
NUMBER . . . . .	2	-	-	-	-
LENGTH, YARDS . . . . .	1	19	4	69	72
YARDS AT MOUTH . . . . .	550	7,600	-	-	-
POTS AND TRAPS					
ITEM	CRAB	EEL	ANCHOR, SET OR STAKE	D R I F T	
				SHAD	OTHER
FISHERMEN:					
ON VESSELS . . . . .	-	-	-	-	4
ON BOATS AND SHORE:					
REGULAR . . . . .	18	2	24	-	-
CASUAL . . . . .	8	1	50	12	2
TOTAL . . . . .	26	3	74	12	2
VESSELS, MOTOR:					
GROSS TONNAGE . . . . .	-	-	-	-	2
BOATS, MOTOR:					
GEAR:					
NUMBER . . . . .	-	-	-	-	24
SQUARE YARDS . . . . .	16	2	38	10	1
HOOKS OR BAITS . . . . .	2,015	70	38	10	1
			63,180	5,450	3,600
					6,900
DREDGES					
ITEM*	CLAM	CRAB	OYSTER, C O M M O N	TONGS	RAKES
FISHERMEN:					
ON VESSELS . . . . .	28	12	14	-	-
ON BOATS AND SHORE:					
REGULAR . . . . .	-	-	4	25	15
CASUAL . . . . .	-	-	-	20	105
TOTAL . . . . .	28	12	18	45	120
VESSELS, MOTOR:					
GROSS TONNAGE . . . . .	9	5	4	-	-
BOATS:					
MOTOR . . . . .	336	147	110	-	-
OTHER . . . . .	-	-	2	30	85
GEAR:				10	120
NUMBER . . . . .	17	7	12	45	-
YARDS AT MOUTH . . . . .	24	16	18	-	-



# MIDDLE ATLANTIC FISHERIES

## DELAWARE - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		PURSE SEINES, MENHADEN		OTTER TRAWLS, FISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUTTERFISH . . . . .	-	-	-	-	3,500	\$450
FLOUNDERS, FLUKE . . . . .	-	-	-	-	13,900	2,985
KING WHITING OR "KINGFISH" . . . . .	-	-	-	-	4,900	400
MENHADEN . . . . .	-	-	32,554,000	\$378,494	-	-
SCUP OR PORGY . . . . .	-	-	-	-	600	15
SEA TROUT OR WEAKFISH, GRAY . . . . .	15,000	\$2,250	-	-	95,600	8,355
WHITE PERCH . . . . .	-	-	-	-	4,000	240
TOTAL. . . . .	15,000	2,250	32,554,000	378,494	122,700	12,445
SPECIES	FYKE AND HOOP NETS				POTS AND TRAPS	
	FISH	TURTLE		CRAZ	EEL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH . . . . .	500	\$50	-	-	-	-
EELS, COMMON . . . . .	-	-	-	-	12,000	\$1,920
FLOUNDERS, BLACKBACK . . . . .	48,000	2,880	-	-	-	-
HERRING, SEA . . . . .	11,200	560	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY . . . . .	1,000	200	-	-	-	-
SWELLFISH . . . . .	4,000	80	-	-	-	-
WHITE PERCH . . . . .	5,000	850	-	-	-	-
CRABS, BLUE; HARD . . . . .	-	-	-	273,000	\$30,515	-
SOFT AND PEELER . . . . .	-	-	-	2,300	950	-
TURTLES, SNAPPER . . . . .	-	-	5,200	\$544	-	-
TOTAL. . . . .	69,700	4,620	5,200	544	275,300	31,466
SPECIES	GILL NETS					
	ANCHOR, SET OR STAKE	DRIFT			LINES, LONG OR SET WITH HOOKS	
		SHAD	OTHER		POUNDS	VALUE
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CARP . . . . .	8,000	\$800	-	-	-	-
COD . . . . .	-	-	-	-	53,300	\$6,396
FLOUNDERS, FLUKE . . . . .	2,500	700	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY . . . . .	15,700	3,140	-	-	-	-
SHAD . . . . .	138,100	15,032	12,200	\$2,765	-	-
STRIPED BASS . . . . .	31,000	5,934	-	-	2,700	\$540
STURGEON . . . . .	-	-	-	-	-	-
WHITE PERCH . . . . .	18,600	2,412	-	-	-	-
TOTAL. . . . .	213,900	28,938	12,200	2,765	2,700	540
53,300	6,396					
SPECIES	DREDGES					
	CLAM		CRAB		OYSTER, COMMON	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS, BLUE, HARD; . . . . .	-	-	40,300	\$1,814	-	-
CLAMS, HARD; PUBLIC . . . . .	131,800	\$53,544	-	-	-	-
PUBLIC . . . . .	122,000	49,575	-	-	-	-
OYSTERS, MARKET; PUBLIC, FALL . . . . .	-	-	-	-	9,700	\$6,000
PRIVATE, SPRING . . . . .	-	-	-	-	14,500	8,344
FALL . . . . .	-	-	-	-	20,500	12,640
TOTAL. . . . .	253,800	103,119	40,300	1,814	44,700	26,964
SPECIES	TONGS			RAKES		
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS, HARD, PUBLIC . . . . .	78,400	\$36,765	85,800	\$44,910		
TOTAL. . . . .	78,400	36,765	85,800	44,910		

# MIDDLE ATLANTIC FISHERIES

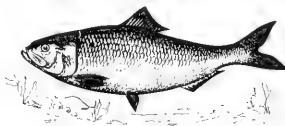
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## HUDSON RIVER SHAD FISHERY

The Hudson River run of shad yielded a commercial catch of 53,523 fish weighing 181,865 pounds, valued at \$37,713 to the fishermen. Compared with the previous year, this was a decline of 48 percent in poundage and 54 percent in value. This was the lowest harvest since 1925 when 124,334 pounds were taken and far below the 1944 record of 3.8 million pounds. Fishermen received an average price of 21 cents per pound for shad during 1964, compared with 24 cents the previous year.

It appears that there were fewer fish in the run, however, other factors, such as reduced fishing effort and less demand for shad, contributed to the decline. This is an old fishery, and most of the regular fishermen are not being replaced as they retire.

Statistics on the 1964 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 those States.



SHAD

## SUMMARY OF OPERATING UNITS AND CATCH, 1964

ITEM	NEW YORK			NEW JERSEY			TOTAL		
	NUMBER		NUMBER		NUMBER		NUMBER		
OPERATING UNITS FISHERMEN, ON BOATS AND SHORE:									
REGULAR . . . . .	4			5			9		
CASUAL . . . . .	96			20			116		
TOTAL . . . . .	100			25			125		
BOATS:									
MOTOR. . . . .	54			10			64		
OTHER. . . . .				2			2		
GEAR, GILL NETS; ANCHOR SET OR STAKE . . . . .									
SQUARE YARDS . . . . .	23			7			30		
DRIFT. . . . .	57,423			17,132			74,555		
SQUARE YARDS . . . . .	35			-			35		
	103,484			-			103,484		
CATCH	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE
SHAD, GILL NETS: ANCHOR, SET OR STAKE . . . . .	14,390	45,244	\$9,277	28,455	103,781	\$20,720	42,845	149,025	\$29,997
DRIFT. . . . .	10,676	32,840	7,716	-	-	-	10,678	32,840	7,716
TOTAL . . . . .	25,066	78,084	16,993	28,455	103,781	20,720	53,523	181,865	37,713

NOTE:--THESE DATA REFLECT THE CATCH OF SHAD IN THE HUDSON RIVER BETWEEN WEEHAWKEN, N. J. AND ALBANY, N. Y.

## SECTION 4 - CHESAPEAKE FISHERIES

The commercial landings of fish and shellfish in Maryland and Virginia were 536.6 million pounds valued at \$35.9 million to fishermen. Compared with 1963, this was an increase of 106.4 million pounds (25 percent) and \$6.1 million (21 percent). Landings of menhaden, hard blue crabs, oysters, industrial fish, swellfish, spot, shad, scup, and soft clams were up; whereas butterfish, sea bass, fluke, striped bass, and white perch were down.

Landings by States were: Virginia, 465.8 million pounds (87 percent), and Maryland, 70.8 million pounds (13 percent). The value was apportioned: Virginia \$24.2 million (67 percent), and Maryland \$11.7 million (33 percent). The difference in poundage was largely due to the Virginia menhaden fishery, which contributed 71 percent of the State's catch.

Fishermen and vessels. There were 18,554 fishermen in the fisheries of the Chesapeake area during 1964--770 more than in 1963. Craft operating were 1,245 vessels of 5 net tons or over, 9,947 motor boats, and 996 other boats--up 531 from the 1963 total. Greater activity in the oyster fishery was primarily responsible for the increase.

Processing. Chesapeake States manufactured fishery products were valued at \$65.3 million--\$7.2 million greater than in 1963. Of the total value, Maryland accounted for 54 percent and Virginia, 46 percent. The increase was due mostly to larger packs and higher values of shucked oysters and crab meat and a sharp gain in menhaden products. There were 622 wholesale establishments, a drop of 33 from 1963.

Weather. The winter of 1964 was milder than in the previous year, with less icing of bays and rivers. Continued low rainfall and the increase of salinity has exposed more oyster grounds to the MSX parasite.

Labor. Automation is slowly making advances in the fishing industry. Operators of menhaden purse-seine vessels have turned to power blocks for hauling, thereby cutting crews by one-third. Suction fish unloaders have reduced the number of dock workers. The oyster and crab meat industries are still relatively untouched by automation. Considerable attention was given by the Bureau and members of the industry to the development of crab picking machines.

Legislation. No important fishery laws were enacted by either State. A difficulty arose from lack of enabling legislation providing for regulation of the Potomac River soft clam fishery. The courts ruled that the Maryland clam law no longer applied to the river and that the Potomac River Fisheries Commission was not given powers to regulate clamming by its charter. Taking of soft clams in the river proceeded unrestricted through the last 10 months of the year. The Department of Tidewater Fisheries limited the catch in Maryland waters to 40 bushels of soft clams per day per boat, and this restriction encouraged the rush of boats to the Potomac where catches of 100 bushels per day were not unusual. The Potomac River Commission placed a 20-cent-per-bushel tax on oysters taken from the river.

The Maryland State Health Department closed a number of oyster bars in the fall because of suspected pollution. Most of them had been reopened by midseason; however, the publicity accompanying the announcement adversely affected sales of Maryland oysters for the remainder of the season.

Oysters. There were 22.1 million pounds of oyster meats produced, a 21-percent increase over the 1963 record low. Virginia contributed 14.2 million pounds and Maryland, 7.9 million pounds. The oyster regulating agencies of both States and the Potomac River Fisheries Commission intensified their efforts at oyster propagation by dredging buried shell deposits from the bay and distributing them to other areas for use in catching sets of young oysters. Some effort was made to transfer oyster spat from seed areas to growing areas.

## CHESAPEAKE FISHERIES

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The MSX organism, which has caused extensive mortalities in the lower Chesapeake Bay, made some advances up both the bay and some rivers due to rising salinity of the water brought about by low rainfall which caused a decline in fresh-water runoff. Some areas previously affected were making a slow comeback apparently due to an increase in the stocks of MSX-resistant oysters.

The Virginia seed oyster industry harvested only 720,000 State bushels, (937,440 U. S. standard bushels) valued at about \$1.1 million--down 25 percent in volume and 21 percent in value from 1963. Until recent years, 2 million bushels per season were considered normal.

Blue crabs. Hard shell blue crab production (74.1 million pounds) increased 18 percent, and soft and peeler (4.5 million pounds) was up 47 percent. Catches were light during the spring and early summer but improved in the late summer and fall, overcoming the early shortage. As in 1963, a shortage of bait hampered crabbers throughout the season.

Clams. Soft clam landings (8.2 million pounds of meats) were a 19-percent increase over 1963 and a record for the area. The entire catch was from Maryland waters; grounds off Virginia were not worked in 1964. The opening of the Potomac River to unrestricted taking of soft clams was an important factor in the record catch--31 percent came from this river.

Hard clam production reached 2.8 million pounds of meats, an 8-percent increase over 1963. Virginia produced the largest amount (88 percent). Because of the higher salinity of its waters, Virginia has more extensive hard clam beds than Maryland.

Menhaden. Landings were 336.4 million pounds, an increase of 30 percent above the 1963 total. Virginia accounted for 98 percent. Purse seiners landed 301.4 million pounds while all other gear, principally pound nets, took 35.0 million pounds. The law prohibits purse seining in Maryland waters; however, several vessels that fished in Virginia waters landed their catch in Maryland. All of the Maryland landings were used for bait, while most of Virginia's were used for reduction into meal, oil, and solubles valued at \$7.2 million.

Alewives. The alewife catch was 28.0 million pounds, an increase of a little over 1 percent. Virginia had 95 percent of the production. Canned, salted, and pickled products were valued at almost \$1 million. The fish not required by packers were manufactured into meal, oil and solubles valued at \$280,500.

Swordfish. The new longline fishery for swordfish did not grow as rapidly as hoped for, although the 635,000 pounds landed in Virginia were over three times those of 1963. The vessels fished the same grounds as before, but many landed in other areas.

Tuna. For the second year, five west coast purse seiners landed tuna in Maryland--2.8 million pounds including 197,000 pounds of skipjack and 277,000 pounds of yellowfin taken in the Pacific Ocean. A small amount of tuna, 124,000 pounds, was landed in Virginia, caught mostly in connection with the swordfish longlining operation.

Bay finfish. The catch of striped bass, the most popular foodfish in the bay, was only 5.2 million pounds--a drop of 20 percent. This species has declined since the record catch of 1961 (7.3 million pounds), and no large year classes have appeared to replenish the stock. Swellfish were very abundant and the catch, taken largely in the spring, was 5.1 million pounds--3.0 million pounds more than in the previous year. The food market was unable to absorb the catch, and the surplus went to the reduction plants. There was hope that croakers were making a comeback after having almost disappeared in 1963--396,000 pounds were taken, more than three times the 1963 total. Nearly the entire amount was landed in Virginia.

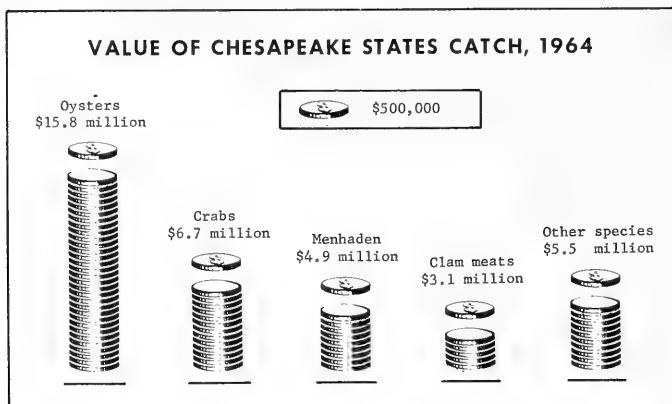
#### **CHESAPEAKE FISHERIES**

Ocean finfish. Ocean fish landed in the Chesapeake States are mostly taken by otter trawls. The leading species was scup--11.1 million pounds--a gain of 1.5 million pounds over 1963. Other ocean species with landings above 1 million pounds were fluke, seabass, and sharks.

**Fresh-water fishery.** The fisheries of the upper tributaries furnished carp, catfish, white and yellow perch, crappie, sunfish, and snapper turtles. The leading species is catfish, which has little variation in catch from year to year, and in 1964 was 1.8 million pounds, about a 10-percent decline from 1963. Much of the catch is shipped live out of the State. Snapperturtle demand was good all year with steadilyrising prices and 254,000 pounds were landed--53 percent more than in 1963.

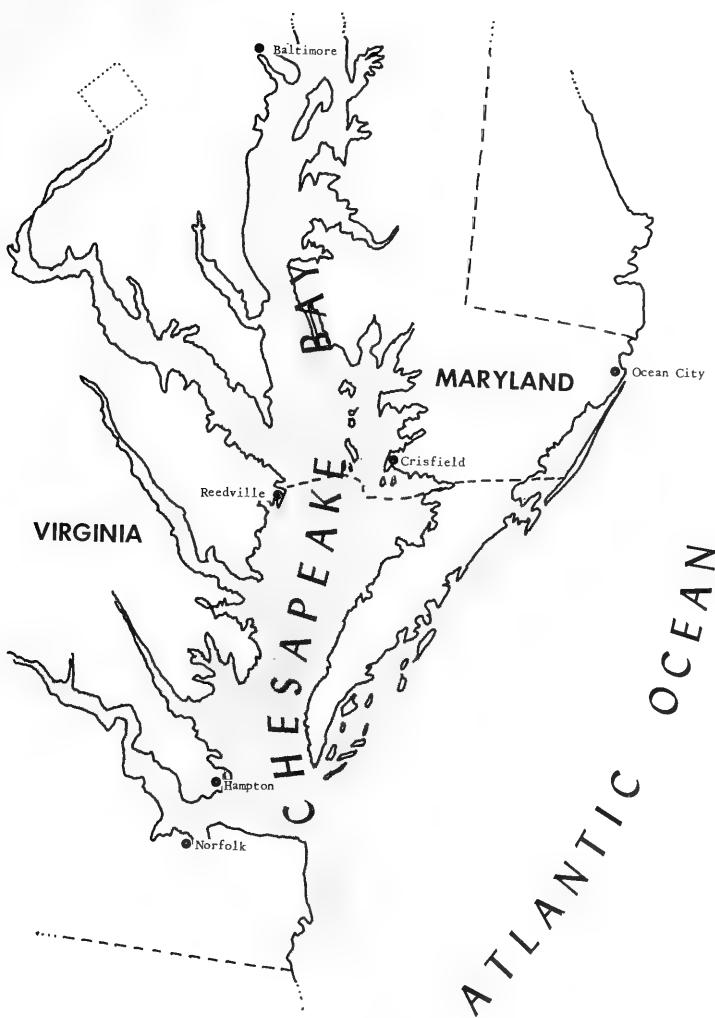
Other information. Condensed summary data on the operating units and catch, by States, appearing on the following pages, have been previously published in Current Fishery Statistics No. 3967. The catch of fish and shellfish in the bay and ocean areas of Maryland and Virginia is shown at the end of this section. Additional data may be found in the Maryland and Virginia monthly and annual landing bulletins published by the Branch of Fishery Statistics in cooperation with the respective States. Information on the daily, monthly, and annual production of fishery products in selected areas of these States is available in reports published by the Bureau's Fishery Market News Office at Hampton, Va.

**Acknowledgments.** The following organizations helped collect the data appearing in this section: Maryland Department of Chesapeake Bay Affairs, Natural Resources Institute of the University of Maryland; Virginia Commission of Fisheries, Virginia Institute of Marine Science; and Potomac River Fisheries Commission.



# CHESAPEAKE FISHERIES

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CHESAPEAKE STATES

**CHESAPEAKE FISHERIES**  
**SECTIONAL SUMMARIES**  
**SUMMARY OF CATCH, 1964**

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

STATE	FISH		SHELLFISH, ETC.		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
MARYLAND . . . . .	26	2	43	10	71	12
VIRGINIA . . . . .	395	8	70	16	466	24
TOTAL . . . . .	424	10	113	26	537	36

**SUMMARY OF OPERATING UNITS, 1964**

ITEM	MARYLAND	VIRGINIA	TOTAL, EXCLUSIVE OF DUPLICATION	
			NUMBER	NUMBER
FISHERMEN:				
ON VESSELS . . . . .	1,257	2,707		3,898
ON BOATS AND SHORE:				
REGULAR . . . . .	3,754	3,954		7,708
CASUAL . . . . .	4,260	2,688		6,948
TOTAL . . . . .	9,271	9,349		18,554
VESSELS:				
MOTOR . . . . .	475	723		1,184
GROSS TONNAGE . . . . .	6,605	21,802		27,822
SAIL . . . . .	61	-		61
GROSS TONNAGE . . . . .	687	-		687
TOTAL VESSELS . . . . .	536	723		1,245
TOTAL GROSS TONNAGE . . . . .	7,292	21,802		28,509
BOATS:				
MOTOR . . . . .	5,959	3,991		9,947
OTHER . . . . .	308	688		996
GEAR:				
HAUL SEINES, COMMON . . . . .	115	171		286
LENGTH, YARDS . . . . .	50,050	108,700		158,750
PURSE SEINES:				
MENHADEN . . . . .	2	41		41
LENGTH, YARDS . . . . .	750	15,513		15,513
TUNA . . . . .	5	-		5
LENGTH, YARDS . . . . .	4,480	-		4,480
OTTER TRAILS, FISH . . . . .	25	63		83
YARDS AT MOUTH . . . . .	644	1,683		2,210
POUND NETS:				
FISH . . . . .	236	921		1,157
CRAB . . . . .	-	2,839		2,839
TYKE AND HOOD NETS, FISH . . . . .	644	562		1,206
POTS AND TRAPS:				
CRAB . . . . .	63,915	120,680		184,595
EEL . . . . .	6,845	912		7,757
FISH . . . . .	960	3,686		4,646
TURTLE . . . . .	323	200		523
SLAT TRAPS . . . . .	-	2		2
GILL NETS:				
ANCHOR, SET OR STAKE . . . . .	1,545	1,353		2,898
SQUARE YARDS . . . . .	1,688,435	692,409		2,380,844
DRIFT . . . . .	471	639		1,108
SQUARE YARDS . . . . .	768,250	581,160		1,332,910
LINES:				
HAND . . . . .	660	1,249		1,909
HOOKS . . . . .	660	1,249		1,909
LONG OR SET WITH HOOKS . . . . .	11	77		88
HOOKS . . . . .	7,350	20,521		27,871
TROT WITH BAITS . . . . .	2,212	130		2,342
BAITS . . . . .	821,000	79,450		900,450
DIP NETS, COMMON . . . . .	160	214		374
SCRAPES . . . . .	459	120		579
YARDS AT MOUTH . . . . .	479	194		673
DREDGES:				
CLAM . . . . .	213	36		247
YARDS AT MOUTH . . . . .	214	29		241
CRAB . . . . .	4	362		366
YARDS AT MOUTH . . . . .	4	596		600
OYSTER, COMMON . . . . .	187	444		631
YARDS AT MOUTH . . . . .	213	493		706
SCALLOP . . . . .	-	4		4
YARDS AT MOUTH . . . . .	-	14		14
TONGS:				
OYSTER . . . . .	4,593	2,528		7,121
OTHER . . . . .	85	992		1,077
RAKES:				
OYSTER . . . . .	-	25		25
OTHER . . . . .	-	520		520

## **CHESAPEAKE FISHERIES**

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### CATCH BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

Thousands of Pounds and Thousands of Dollars						
SPECIES	MARYLAND	VIRGINIA		TOTAL		
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES . . . . .	1,314	26	26,640	490	27,954	516
BLUEFISH . . . . .	6	1	395	54	401	55
BONITO . . . . .	-	-	14	1	14	1
BUTTERFISH . . . . .	33	3	1,211	95	1,244	98
CERO . . . . .	-	-	12	12	12	12
GAR . . . . .	167	5	170	4	170	9
CATFISH AND BULLHEADS . . . . .	392	28	1,460	101	1,852	129
COD . . . . .	13	2	28	3	41	5
CRAPPIE . . . . .	5	(1)	-	-	5	-
CROAKER . . . . .	2	1	394	63	396	(1)
DRUM; . . . . .	-	-	-	-	-	64
BLACK . . . . .	2	(1)	68	2	70	2
RED . . . . .	-	-	5	(1)	5	(1)
EELS, COMMON . . . . .	186	18	314	20	500	36
FLOUNDERS; . . . . .	-	-	-	-	-	-
BLACKBAC . . . . .	26	1	42	2	68	3
DAB . . . . .	-	-	34	1	34	-
PUMPKINSEED . . . . .	557	112	1,492	277	2,049	389
YELLOWTAIL . . . . .	-	-	2	(1)	2	{1}
UNCLASSIFIED . . . . .	1	(1)	-	-	1	{1}
GARFISH . . . . .	-	-	3	(1)	3	{1}
GIZZARD SHAD . . . . .	-	-	-	-	1	{1}
HAKE; . . . . .	11	(1)	75	1	86	1
RED . . . . .	20	(1)	8	(1)	28	{1}
WHITE . . . . .	-	-	(1)	(1)	(1)	{1}
HARVESTFISH . . . . .	-	-	168	17	166	17
HERRING, SEA . . . . .	13	(1)	(1)	(1)	13	(1)
HICKORY SHAD . . . . .	15	1	58	3	73	4
HOGCHOKER . . . . .	9	(1)	-	-	9	(1)
KING MACKEREL . . . . .	-	-	37	5	37	5
WHITE WHITING OR "KINGFISH". . . . .	15	1	61	6	67	7
MACKEREL . . . . .	13	1	343	38	395	37
MENHADEN . . . . .	5,706	91	330,708	4,790	336,414	4,889
MULLET . . . . .	1	{1}	51	5	52	5
PIGFISH . . . . .	(1)	{1}	3	(1)	3	(1)
PIKE OR PICKEREL . . . . .	4	1	-	-	4	1
SCUP OR PORGY . . . . .	216	12	10,929	608	11,147	620
SEA BASS . . . . .	293	29	3,752	361	4,045	390
SEA ROBIN . . . . .	525	5	6	(1)	531	5
SEA TROUT OR WEAKFISH; . . . . .	-	-	-	-	-	-
GRAY. . . . .	172	16	1,593	161	1,765	177
SPOTTED . . . . .	-	-	23	6	23	6
SHAD . . . . .	890	116	2,651	326	3,541	442
SHARKS; . . . . .	-	-	-	-	-	-
GRAYSHARK . . . . .	27	1	1,273	21	1,300	22
UNCLASSIFIED . . . . .	85	2	27	1	112	3
SKATES . . . . .	6	(1)	-	-	6	(1)
SPANISH MACKEREL . . . . .	-	-	33	5	33	5
SPOT . . . . .	34	6	3,198	530	3,232	536
STRIPED BASS . . . . .	3,300	538	1,869	301	5,189	839
STURGEON . . . . .	16	2	11	2	27	4
SUCKERS . . . . .	1	(1)	2	(1)	3	(1)
SUNFISH . . . . .	21	1	-	-	21	1
SWELLISH . . . . .	800	25	4,347	74	5,147	99
SWORDFISH . . . . .	-	-	635	218	635	216
TAUTOG . . . . .	2	(1)	1	{1}	3	{1}
FILET FISH . . . . .	-	-	3	(1)	3	(1)
TUNA; . . . . .	-	-	-	-	-	-
MAINE MUREFISH . . . . .	1,449	186	-	-	1,449	186
LITTLE . . . . .	-	-	1	(1)	1	(1)
SKIPJACK . . . . .	1,113	111	-	-	1,113	111
YELLOWFIN . . . . .	277	36	-	-	277	36
UNCLASSIFIED . . . . .	-	-	123	9	123	9
TOTAL TUNA . . . . .	2,839	333	124	9	2,963	342
WHITE PERCH . . . . .	638	79	270	19	908	96
WHITING . . . . .	131	3	36	1	167	4
YELLOW PERCH . . . . .	132	15	29	3	161	16
UNCLASSIFIED: FOR FOOD . . . . .	2	{1}	41	4	43	4
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	9,536	62	1,036	19	10,574	61
TOTAL FISH . . . . .	28,179	1,537	395,707	8,654	423,886	10,191
SHELLFISH, ETC. . . . .	-	-	-	-	-	-
CRABS, BLUE: HARD . . . . .	22,540	1,609	51,572	3,385	74,112	4,994
SOFT AND PEELER . . . . .	3,498	1,263	998	452	4,496	1,715
TOTAL CRABS. . . . .	26,038	2,872	52,570	3,837	78,608	6,709

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# CHESAPEAKE FISHERIES

## CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	MARYLAND		VIRGINIA		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
SHELLFISH, ETC. - CONTINUED						
LOBSTERS, NORTHERN . . . . .	4	2	28	12	32	14
CLAMS:						
HARD:						
PUBLIC . . . . .	332	172	2,142	1,065	2,474	1,237
PRIVATE . . . . .	-	-	311	154	311	154
SOFT, PUBLIC . . . . .	8,164	1,667	-	-	8,164	1,667
SURF . . . . .	36	3	-	-	36	3
TOTAL CLAMS. . . . .	8,534	1,842	2,453	1,219	10,987	3,061
CONCHS . . . . .	31	3	262	16	293	19
OYSTERS, MARKET:						
PUBLIC:						
SPRING . . . . .	2,533	1,697	1,233	900	3,766	2,597
FALL . . . . .	4,270	2,817	2,099	1,511	6,369	4,326
PRIVATE:						
SPRING . . . . .	466	392	5,169	3,813	5,635	4,205
FALL . . . . .	679	555	5,649	4,121	6,328	4,676
TOTAL OYSTERS. . . . .	7,948	5,451	14,150	10,345	22,098	15,806
SCALLOPS, SEA . . . . .	-	-	194	95	194	95
SQUID . . . . .	29	2	206	11	235	13
TERRAPIN . . . . .	7	3	2	(1)	9	3
TURTLES, SNAPPER . . . . .	58	7	196	30	254	37
TOTAL SHELLFISH, ETC. . . . .	42,649	10,192	70,061	15,565	112,710	25,757
GRAND TOTAL. . . . .	70,828	11,729	465,768	24,219	536,596	35,948

1/ LESS THAN 500 POUNDS OR \$500.

NOTE:--STATISTICS ON THE CATCH ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. CLAMS, CONCHS, AND OYSTERS ARE REPORTED IN WEIGHT OF TOTAL MEATS; SCALLOPS, IN WEIGHT OF EDIBLE MEATS.

## CATCH OF CERTAIN SHELLFISH, 1964 (NUMBER AND BUSHELS)

SPECIES	MARYLAND		VIRGINIA		TOTAL	
	NUMBER	QUANTITY	NUMBER	QUANTITY	NUMBER	QUANTITY
CRABS, BLUE:						
HARD . . . . .	54,096,480	\$1,609,071	154,200,800	\$3,385,029	208,297,280	\$4,994,100
SOFT AND PEELER	DO	13,991,604	1,262,739	5,976,223	452,163	19,957,827
CLAMS:						
HARD:						
PUBLIC . . . . .	STANDARD BUSHELS	41,500	171,503	267,775	1,065,427	309,275
PRIVATE . . . . .	DO	-	-	38,862	154,005	38,862
SOFT, PUBLIC . . . . .	DO	650,358	1,657,098	-	-	650,358
SURF . . . . .	DO	2,224	3,337	-	-	2,224
CONCHS . . . . .	DO	-	3,302	13,095	15,530	3,337
OYSTERS, MARKET:						
PUBLIC:						
SPRING . . . . .	DO	541,175	1,696,486	262,362	900,129	803,537
FALL . . . . .	DO	920,366	2,817,105	467,416	1,510,950	1,387,762
PRIVATE:						
SPRING . . . . .	DO	92,875	391,923	1,202,140	3,612,727	1,295,015
FALL . . . . .	DO	134,416	555,123	1,348,258	4,121,258	1,482,674
SCALLOPS, SEA . . . . .	DO	-	-	32,267	94,869	32,267

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

## AVERAGE WEIGHTS OF CERTAIN SHELLFISH, 1964

SPECIES	MARYLAND		VIRGINIA	
	NUMBER PER POUND	QUANTITY	NUMBER	QUANTITY
CRABS, BLUE:				
HARD . . . . .	DO	2.40		2.99
SOFT AND PEELER	DO	4.00		5.99
CLAMS:				
HARD:				
PUBLIC . . . . .	STANDARD BUSHEL	8.00		8.00
PRIVATE . . . . .	DO	-		8.00
SOFT, PUBLIC . . . . .	DO	12.00		-
SURF . . . . .	DO	17.00		-
CONCHS . . . . .	DO	20.00		20.00
OYSTERS, MARKET:				
PUBLIC:				
SPRING . . . . .	DO	4.6-B		4.70
FALL . . . . .	DO	4.6-C		4.49
PRIVATE:				
SPRING . . . . .	DO	5.01		4.30
FALL . . . . .	DO	.05		4.19
SCALLOPS, SEA . . . . .	DO	-		6.00

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

# CHESAPEAKE FISHERIES

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## MANUFACTURED FISHERY PRODUCTS, 1964

ITEM	MARYLAND		VIRGINIA	
	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES:				
CANNED:				
FISH . . . . .	STANDARD CASES	{1}	{1}	65,034
PODDED . . . . .	DO	{1}	{1}	34,558
SALTED AND PICKLED . . . . .	POUNDS	{1}	{1}	2,755,610
SPECIALTIES, CURED AND REFRIGERATED . . . . .	DO	(1)	(1)	-
MEAL AND SCRAPS . . . . .	TONS	-	-	\$255,167
OIL . . . . .	1,000 POUNDS	(1)	(1)	451,110
SOLUBLES . . . . .	TONS	-	-	269,655
ANCHOVY PASTE, CANNED . . . . .	STANDARD CASES	(1)	(1)	-
BLUEFISH FILLETS, FROZEN . . . . .	POUNDS	-	-	1,457
BUTTERFISH, SMOKED . . . . .	DO	-	-	676
CARP, SMOKED . . . . .	DO	(1)	(1)	-
CUBBS, SMOKED . . . . .	DO	(1)	(1)	848
COD, FROZEN:				
FILLETS . . . . .	DO	-	-	180,528
SPECIALTIES (CAKES) . . . . .	DO	-	-	48,701
EELS, SMOKED . . . . .	DO	(1)	(1)	51,234
FLOUNDER, FILLETS:				
FROZEN . . . . .	DO	-	-	-
BREADED, RAW . . . . .	DO	-	-	-
HALIBUT STEAKS, FROZEN . . . . .	DO	-	-	-
MENHADEN:				
MEAL AND SCRAPS . . . . .	TONS	-	-	386,000
OIL . . . . .	1,000 POUNDS	-	-	32,804
SOLUBLES . . . . .	TONS	-	-	23,944
SABLEFISH, SMOKED . . . . .	POUNDS	(1)	(1)	21,176
SAFETY:				
STEAKS, FROZEN . . . . .	DO	-	-	1,269
SMOKED . . . . .	DO	(1)	(1)	4,201
SEA BASS FILLETS, FROZEN . . . . .	DO	-	-	1,737,616
SEA HERRING:				
SALTED AND PICKLED . . . . .	DO	{1}	{1}	-
SMOKED . . . . .	DO	{1}	{1}	-
SPECIALTIES, CURED AND REFRIGERATED (PARTY SNACKS, LUNCH HERRING, CREAM FILLETS, ETC.) . . . . .	DO	(1)	(1)	-
SHAD:				
FILLETS, FROZEN . . . . .	DO	(1)	(1)	-
SMOKED . . . . .	DO	-	-	-
SNAPPER, RED, FILLETS, FROZEN . . . . .	DO	(1)	(1)	-
SPANISH MACKEREL FILLETS, FROZEN . . . . .	DO	-	-	{1}
STRIPED BASS FILLETS, FROZEN . . . . .	DO	-	-	{1}
STURGEON, SMOKED . . . . .	DO	(1)	(1)	{1}
SWORDFISH STEAKS, FROZEN . . . . .	DO	-	-	{1}
TUNA, FROZEN:				
SPECIALTIES, FROZEN (PIES, PATTIES, CROQUETTES) . . . . .	DO	-	-	{1}
CANNED . . . . .	STANDARD CASES	{1}	{1}	{1}
WHITEFISH, SMOKED . . . . .	POUNDS	{1}	{1}	-
CRABS:				
BLUE:				
FRESH AND FROZEN:				
COOKED MEAT . . . . .	DO	3,790,947	\$4,425,820	4,048,260
SPECIALTIES (CAKES, CUTLETS, DEVILED, ETC.) . . . . .	DO	1,922,062	1,352,572	294,770
SPECIALTIES, CANNED (SOUP) . . . . .	STANDARD CASES	{1}	{1}	-
MEAL AND SCRAPS . . . . .	TONS	3,523	150,697	273,270
KING, SPECIALTIES FROZEN (CAKES)	POUNDS	-	-	189,009
LOBSTER SOUP, CANNED . . . . .	STANDARD CASES	(1)	(1)	{1}
SHRIMP:				
BREADED, FROZEN . . . . .	POUNDS	(1)	(1)	{1}
SPECIALTIES:				
FROZEN (CROQUETTES, STUFFED, ETC.) . . . . .	DO	-	-	{1}
CANNED (SOUP) . . . . .	STANDARD CASES	{1}	{1}	{1}
CLAMS:				
FRESH AND FROZEN:				
SHUCKED:				
HARD . . . . .	GALLONS	-	-	12,083
SOFT . . . . .	DO	525,341	2,652,600	-
SPECIALTIES:				
FROZEN (BREADED, STRIPS, CROQUETTES, ETC.) . . . . .	POUNDS	482,862	478,745	54,374
CANNED (CHOWDER AND IN SHELL) . . . . .	STANDARD CASES	22,878	206,634	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# CHESAPEAKE FISHERIES

## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM	MARYLAND		VIRGINIA		
	QUANTITY	VALUE	QUANTITY	VALUE	
OYSTERS:					
FRESH AND FROZEN:					
SHUCKED . . . . .	GALLONS	773,543	\$5,802,557	1,480,630	\$11,817,006
STEAMED . . . . .	POUNDS			984,400	1,162,580
BREADED, RAW . . . . .	DO	160,182	195,576	602,700	545,230
STEWS . . . . .	DO	{1}	{1}	-	-
SHELL, GRIT AND LIME . . . . .	TONS	{1}	{1}	12,004	204,118
SCALLOPS, BREADED RAW FROZEN . . . . .	POUNDS	{1}	{1}	200,954	140,643
CONCHS, STEAMED FRESH . . . . .	DO	-	-	(1)	(1)
UNCLASSIFIED:					
FRESH AND FROZEN, PACKAGED:					
FISH:					
STICKS, BREADED:					
RAW . . . . .	DO	{1}	{1}	854,260	244,985
COOKED . . . . .	DO	{1}	{1}	-	-
PORTIONS, BREADED:					
RAW . . . . .	DO	{1}	{1}	359,991	99,831
COOKED . . . . .	DO	{1}	{1}	-	-
UNBREADED . . . . .	DO	{1}	{1}	-	-
FISH AND SHELLFISH:					
CANNED . . . . .	STANDARD CASES	19,069,903	6,969,167	5,247,357	1,360,665
CURED . . . . .	POUNDS	661,300	7,136,666	(2)	(2)
INDUSTRIAL . . . . .	POUNDS	7,936,111	4,480,769	-	-
			1,334,628	-	39,155
TOTAL . . . . .	-	-	35,222,431	-	30,043,056

1/ INCLUDED IN UNCLASSIFIED ITEMS.

2/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH.

NOTE:--SOME 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. CERTAIN ITEMS ARE SHOWN IN AN INTERMEDIATE AND ALSO IN A MORE ADVANCED STAGE OF PROCESSING.

## SUMMARY OF MANUFACTURED PRODUCTS, 1964

(VALUE IN THOUSANDS OF DOLLARS)

ITEM	QUANTITY	VALUE
PACKAGED, FRESH AND FROZEN:		
NOT BREADED:		
FISH . . . . .	1,000 POUNDS	1,173
SHELLFISH . . . . .	DO	32,266
BREADED:		
FISH . . . . .	DO	20,054
SHELLFISH . . . . .	DO	1,885
SPECIALTIES, FISH AND SHELLFISH (NOT BREADED AND BREADED) . . . . .	DO	3,751
CANNED . . . . .	1,000 STANDARD CASES	861
CURED . . . . .	1,000 POUNDS	10,692
INDUSTRIAL . . . . .	-	-
TOTAL . . . . .	-	65,265

## VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964

(THOUSANDS OF DOLLARS)

STATE	VALUE
MARYLAND . . . . .	35,222
VIRGINIA . . . . .	30,043
TOTAL . . . . .	65,265

## WHOLESALING AND MANUFACTURING, 1964

ITEM	MARYLAND	VIRGINIA	TOTAL
	NUMBER	NUMBER	NUMBER
WHALESALING AND MANUFACTURING:			
ESTABLISHMENTS . . . . .	272	350	622
PERSONS ENGAGED:			
AVERAGE FOR SEASON . . . . .	5,042	5,242	10,284
AVERAGE FOR YEAR . . . . .	4,385	3,069	7,454

## CHESAPEAKE FISHERIES

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## MARYLAND

## OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES		OTTER TRAILS, FISH	POUND NETS, FISH	FYKE AND HOOP NETS, FISH
		MENHADEN	TUNA			
FISHERMEN:		NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS . . . . .	113	31	58	60	105	6
ON BOATS AND SHORE:						
REGULAR. . . . .	321	-	-	9	304	73
CASUAL . . . . .	167	-	-	-	25	35
TOTAL . . . . .	601	31	58	69	434	114
VESSELS, MOTOR . . . . .	21	2	5	21	20	3
GROSS TONNAGE . . . . .	194	263	1,647	691	171	24
BOATS:						
MOTOR. . . . .	96	3	5	4	65	61
OTHER. . . . .	117	-	7	-	87	-
GEAR:						
NUMBER . . . . .	115	2	5	25	236	644
LENGTH, YARDS . . . . .	50,050	750	4,480	-	-	-
YARDS AT MOUTH . . . . .	-	-	-	644	-	-
POTS AND TRAPS						
ITEM	CRAB	EEL	FISH	TURTLE	ANCHOR, SET OR STAKE	DRIFT
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS . . . . .	147	-	2	-	210	131
ON BOATS AND SHORE:						
REGULAR. . . . .	419	129	6	25	853	331
CASUAL . . . . .	117	69	20	6	693	321
TOTAL . . . . .	663	198	28	31	1,756	763
VESSELS, MOTOR . . . . .	123	-	1	-	107	64
GROSS TONNAGE . . . . .	966	-	14	-	1,000	653
BOATS:						
MOTOR. . . . .	493	142	14	27	920	378
OTHER. . . . .	-	-	-	-	39	-
GEAR:						
NUMBER . . . . .	63,915	6,845	960	323	1,545	471
SQUARE YARDS . . . . .	-	-	-	-	1,686,435	768,250
LINES						
ITEM	HAND	LONG OR SET WITH HOOKS	TROT WITH BAITS	DIP NETS, COMMON	SCRAPES	DREDGES
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS . . . . .	-	3	89	-	-	161
ON BOATS AND SHORE:						
REGULAR. . . . .	-	11	1,144	33	227	206
CASUAL . . . . .	260	5	979	127	4	5
TOTAL . . . . .	260	19	2,212	160	231	372
VESSELS, MOTOR . . . . .	-	1	85	-	-	82
GROSS TONNAGE . . . . .	-	19	648	-	-	706
BOATS:						
MOTOR. . . . .	70	10	2,006	121	230	131
OTHER. . . . .	-	-	-	45	-	-
GEAR:						
NUMBER . . . . .	660	11	2,212	160	459	213
YARDS AT MOUTH . . . . .	-	-	-	-	479	214
HOOKS OR BAITS . . . . .	660	7,350	821,000	-	-	-

(CONTINUED ON NEXT PAGE)

# CHESAPEAKE FISHERIES

## MARYLAND - OPERATING UNITS BY GEAR, 1964 - Continued

ITEM	DREDGES - CONTINUED		TONGS		BY HAND	TOTAL, EX- CLUSIVELY OF DUPLICATION
	CRAB	OYSTER, COMMON	OYSTER	OTHER		
FISHERMEN:						
ON VESSELS . . . . .	-	320	327	15	-	1,257
ON BOATS AND SHORE:						
REGULAR . . . . .	3	65	2,586	70	15	3,754
CASUAL . . . . .	1	10	1,660	3	63	4,260
TOTAL . . . . .	4	395	4,593	88	78	9,271
VESSELS:						
MOTOR . . . . .	-	14	257	12	-	475
GROSS TONNAGE . . . . .	-	182	2,053	107	-	6,605
SAIL . . . . .	-	61	-	-	-	61
GROSS TONNAGE . . . . .	-	687	-	-	-	687
TOTAL VESSELS . . . . .	-	75	257	12	-	536
TOTAL GROSS TONNAGE . . . . .	-	869	2,053	107	-	7,292
BOATS:						
MOTOR . . . . .	-	4	29	3,368	-	5,959
OTHER . . . . .	-	-	24	-	-	308
GEAR:						
NUMBER . . . . .	-	4	187	4,593	-	-
YARDS AT MOUTH . . . . .	-	4	213	-	-	-

## MARYLAND - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		PURSE SEINES			
	MENHADEN		TUNA			
ALEWIVES . . . . .	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CARP . . . . .	2,800	\$56	-	-	-	-
CATFISH AND BULLHEADS . . . . .	131,200	3,626	-	-	-	-
EELS, COMMON . . . . .	45,500	3,134	-	-	-	-
EELS . . . . .	600	52	-	-	-	-
MENHADEN . . . . .	11,300	196	4,362,300	\$68,278	-	-
SEA TROUT OR MEKFISH, GRAY . . . . .	600	65	-	-	-	-
SHAD . . . . .	100	17	-	-	-	-
SPOT . . . . .	8,800	1,583	-	-	-	-
STRIPED BASS . . . . .	363,500	58,964	-	-	-	-
SUCKERS . . . . .	200	4	-	-	-	-
SUNFISH . . . . .	200	11	-	-	-	-
TUNA . . . . .	-	-	-	-	-	-
BLUEFIN . . . . .	-	-	-	-	1,446,700	\$185,753
SKATEJACK . . . . .	-	-	-	-	1,112,900	111,292
YELLOWFIN . . . . .	-	-	-	-	276,600	35,963
WHITE PERCH . . . . .	33,900	4,233	-	-	-	-
YELLOW PERCH . . . . .	10,800	1,221	-	-	-	-
TERRAPIN . . . . .	100	40	-	-	-	-
TOTAL . . . . .	609,500	73,403	4,362,300	68,278	2,838,400	333,028
SPECIES	OTTER TRAWLS		POUND NETS		FYKE AND HOOP NETS	
ALEWIVES . . . . .	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUTTERFISH . . . . .	-	-	1,104,100	\$22,063	4,300	\$96
CARP . . . . .	800	\$97	2,100	228	-	-
CATFISH AND BULLHEADS . . . . .	29,500	2,428	2,800	280	-	-
COD . . . . .	-	-	4,400	132	4,200	126
CRAPPIE . . . . .	-	-	42,200	3,103	61,000	3,987
DRUM, BLACK . . . . .	-	-	-	-	-	-
EELS, COMMON . . . . .	200	194	-	-	-	-
FLOUNDERS:						
BLACKBACK . . . . .	-	-	-	-	4,900	280
FLUKE . . . . .	18,700	663	-	-	-	-
UNCLASSIFIED . . . . .	537,100	108,476	17,800	2,727	900	140
GIZZARD SHAD . . . . .	900	49	1,600	34	100	6

(CONTINUED ON NEXT PAGE)

# CHESAPEAKE FISHERIES

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## MARYLAND - CATCH BY GEAR, 1964 - Continued

SPECIES	OTTER TRAWLS		POUND NETS		FYKE AND HOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HAKE, RED . . . . .	17,700	\$328	-	-	-	-
HERRING, SEA . . . . .	12,800	139	-	-	-	-
HICKORY SHAD . . . . .	-	-	100	\$7	-	-
HOGCHOKER . . . . .	-	-	9,100	183	-	-
KING WHITING OR "KINGFISH" . . . . .	13,500	1,070	-	-	-	-
MACKEREL . . . . .	1,400	91	100	16	-	-
MENHADEN . . . . .	-	-	1,299,900	22,078	700	\$13
PIGFISH . . . . .	200	5	700	184	2,100	384
PIKE OR PICKEREL . . . . .	-	-	-	-	-	-
SCUP OR PORGY . . . . .	217,600	11,882	-	-	-	-
SEA BASS . . . . .	147,500	11,493	-	-	-	-
SEA ROBIN . . . . .	525,400	5,254	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY . . . . .	153,700	14,122	17,000	1,855	-	-
SHAD . . . . .	300	24	133,600	13,389	-	-
SHARKS; . . . . .	-	-	-	-	-	-
GRAYFISH . . . . .	27,200	1,121	-	-	-	-
UNCLASSIFIED . . . . .	84,800	2,480	-	-	-	-
SKATES . . . . .	5,900	38	-	-	-	-
SPOT . . . . .	-	-	10,900	1,844	-	-
STRIPED BASS . . . . .	1,000	144	91,800	14,938	2,000	326
STURGEON . . . . .	15,500	2,217	-	-	-	-
SUCKERS . . . . .	-	-	-	-	600	14
SWEETFISH . . . . .	-	-	-	-	12,400	694
SWELLFISH . . . . .	14,600	366	419,200	14,067	1,800	36
TAUTOG . . . . .	400	8	-	-	-	-
WHITE PERCH . . . . .	100	3	37,100	4,591	25,600	3,201
WHITING . . . . .	130,400	3,091	-	-	-	-
YELLOW PERCH . . . . .	-	-	4,400	498	67,900	7,689
UNCLASSIFIED; . . . . .	-	-	-	-	-	-
FOR FOOD . . . . .	600	20	1,300	78	-	-
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	9,535,900	61,986	-	-	-	-
LOBSTERS, NORTHERN . . . . .	1,200	359	-	-	-	-
CONCHS . . . . .	30,700	3,302	-	-	-	-
QUID . . . . .	28,900	2,483	-	-	-	-
TOTAL . . . . .	11,556,600	233,948	3,211,300	103,528	189,100	17,034

SPECIES	POTS AND TRAPS					
	CRAB		EEL		FISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH AND BULLHEADS . . . . .	-	-	176,800	\$17,284	147,400	\$10,669
EELS, COMMON . . . . .	-	-	-	-	-	-
HAKE, RED . . . . .	-	-	-	-	1,800	40
SEA BASS . . . . .	-	-	-	-	145,800	17,521
SWELLFISH . . . . .	364,500	\$10,027	-	-	-	-
TAUTOG . . . . .	-	-	-	-	1,200	34
CRABS, BLUE; . . . . .	-	-	-	-	-	-
SOFT AND PEELER . . . . .	12,060,500	900,939	-	-	-	-
LOBSTERS, NORTHERN . . . . .	264,600	95,520	-	-	-	-
TURTLES, SNAPPER . . . . .	-	-	-	-	2,300	1,346
TOTAL . . . . .	12,689,600	1,006,486	176,800	17,284	298,500	29,610
	GILL NETS					
SPECIES	ANCHOR, SET OR STAKE		DRIFT		HAND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE

SPECIES	ANCHOR, SET OR STAKE		DRIFT		HAND		LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	185,800	\$3,705	16,800	\$336	-	-	-	-
BLUEFISH . . . . .	2,100	206	1,000	137	100	\$20	-	-
BUTTERFISH . . . . .	200	22	200	21	-	-	-	-
CARP . . . . .	21,400	626	6,100	163	-	-	-	-
CATFISH AND BULLHEADS . . . . .	54,700	3,816	12,900	897	-	-	26,000	\$1,993
GD. . . . .	-	-	-	-	-	-	11,600	1,827
GRASSFISH . . . . .	500	29	-	-	-	-	-	-
EELS, COMMON . . . . .	900	81	-	-	-	-	-	-
FLOUNDERS; . . . . .	-	-	-	-	-	-	-	-
BLACKBACK . . . . .	5,800	694	-	-	1,200	60	-	-
FLUKE . . . . .	1,600	248	100	15	-	-	-	-
GIZZARD SHAD . . . . .	9,700	165	-	-	-	-	-	-
HAKE, RED . . . . .	-	-	-	-	-	-	100	2
HERRING, SEA . . . . .	-	-	100	1	-	-	400	4
HICKORY SHAD . . . . .	12,500	841	2,200	147	-	-	-	-
KING WHITING OR "KINGFISH" . . . . .	500	42	600	62	-	-	-	-
MACKEREL . . . . .	-	-	11,900	502	-	-	-	-
MENHADEN . . . . .	32,100	574	-	-	-	-	-	-

(CONTINUED ON NEXT PAGE)

## CHESAPEAKE FISHERIES

## MARYLAND - CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS				LINES					
	ANCHOR, SET OR STAKE		DRIFT		HAND		LONG OR SET WITH HOOKS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE		
MULLET, BLACK . . . . .	900	\$57	-	-	-	-	-	-		
PIKE OR PICKEREL . . . . .	1,200	247	-	-	-	-	-	-		
SEA TROUT OR WEAFLISH, GRAY . . . . .	200	20	500	\$75	-	-	-	-		
SHAD . . . . .	530,100	72,745	226,000	29,611	-	-	-	-		
SHARKS:										
GRAYFISH . . . . .	-	-	100	3	-	-	-	-		
UNCLASSIFIED . . . . .	500	11	-	-	-	-	-	-		
SPOONBILL . . . . .	1,800	368	6,200	1,279	6,200	\$1,147	-	-		
STRIPED BASS . . . . .	1,683,100	297,762	761,600	123,883	196,600	41,556	-	-		
SUNFISH . . . . .	8,800	495	-	-	-	-	-	-		
WHITE PERCH . . . . .	350,900	43,366	190,600	23,848	-	-	-	-		
WHITING . . . . .	-	-	-	-	-	-	400	\$18		
YELLOW PERCH . . . . .	43,700	4,929	5,000	563	-	-	-	-		
UNCLASSIFIED, FOR FOOD . . . . .	100	6	-	-	-	-	-	-		
TURTLES, SNAPPER . . . . .	-	-	-	-	4,000	307	-	-		
TOTAL . . . . .	3,149,100	431,075	1,241,900	181,563	208,300	43,090	40,500	3,844		
SPECIES	LINES - CONTINUED			DIP NETS			SCRAPES			
	TROT WITH BAITS									
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE		
CRABS, BLUE:										
HARD . . . . .	10,361,600	\$699,310	5,700	\$426	-	-	-	-		
SOFT AND PEELER . . . . .	153,800	55,521	12,500	4,511	3,057,000	\$6,558	1,107,187	2,272		
TERRAPIN . . . . .	-	-	1,000	80	6,500	-	-	-		
TURTLES, SNAPPER . . . . .	-	-	-	-	-	-	-	-		
TOTAL . . . . .	10,515,400	754,831	19,200	5,017	3,161,300	1,116,017	-	-		
SPECIES	DREDGES									
	CLAM		CRAB		OYSTER					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE				
CRABS, BLUE, HARD . . . . .	-	-	24,600	\$1,838	-	-				
CLAMS:										
HARD, PUBLIC . . . . .	210,600	\$110,247	-	-	-	-				
SOFT, PUBLIC . . . . .	8,164,300	1,667,096	-	-	-	-				
SURF . . . . .	37,800	3,337	-	-	-	-				
OYSTERS, MARKET:										
PUBLIC:										
SPRING . . . . .	-	-	-	-	-	-	533,500	\$378,876		
FALL . . . . .	-	-	-	-	-	-	494,200	324,496		
PRIVATE:										
SPRING . . . . .	-	-	-	-	-	-	411,000	356,856		
FALL . . . . .	-	-	-	-	-	-	439,900	400,372		
TOTAL . . . . .	8,412,700	1,780,682	24,600	1,838	1,878,600	1,460,600				
SPECIES	TONGS				BY HAND					
	OYSTER		OTHER							
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE		
CLAMS, HARD, PUBLIC . . . . .	-	-	107,400	\$54,010	14,000	\$7,246				
OYSTERS, MARKET:										
PUBLIC:										
SPRING . . . . .	1,999,200	\$1,317,610	-	-	-	-	-	-		
FALL . . . . .	3,776,300	2,492,609	-	-	-	-	-	-		
PRIVATE:										
SPRING . . . . .	54,700	35,067	-	-	-	-	-	-		
FALL . . . . .	238,900	154,751	-	-	-	-	-	-		
TERRAPIN . . . . .	800	320	-	-	-	-	-	-		
TOTAL . . . . .	6,069,900	4,000,357	107,400	54,010	14,000	7,246				

# CHESAPEAKE FISHERIES

## VIRGINIA

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### OPERATING UNITS BY GEAR, 1964

ITEM	H A U L S E I N E S, C O M M O N	P U R S E S E I N E S, M E N H A D E N	O T T E R T R A W L S, F I S H	P O U N D N E T S		F Y K E A N D H O O P N E T S, F I S H
				F I S H	C R A B	
FISHERMEN:						
ON VESSELS . . . . .	157	677	260	362	1	7
ON BOATS AND SHORE:						
REGULAR . . . . .	327	-	-	784	360	123
CASUAL . . . . .	200	-	-	360	137	90
TOTAL . . . . .	684	677	260	1,506	498	220
VESSELS, MOTOR . . . . .	33	41	63	76	1	4
GROSS TONNAGE . . . . .	329	9,400	4,024	838	8	36
BOATS:						
MOTOR . . . . .	197	86	-	331	435	146
OTHER . . . . .	142	-	-	305	-	29
GEAR:						
NUMBER . . . . .	171	41	63	921	2,839	562
LENGTH, YARDS . . . . .	106,700	15,513	-	-	-	-
YARDS AT MOUTH . . . . .	-	-	1,683	-	-	-
POTS AND TRAPS						
ITEM	C R A B	E E L	F I S H	T U R T L E	S L A T T R A P S	G I L L N E T S
						A N C H O R, S E T O R S T A K E
FISHERMEN:						
ON VESSELS . . . . .	350	4	2	-	-	55
ON BOATS AND SHORE:						
REGULAR . . . . .	854	42	69	4	-	595
CASUAL . . . . .	330	23	43	7	2	398
TOTAL . . . . .	1,534	69	114	11	2	1,046
VESSELS, MOTOR . . . . .	189	2	1	-	-	27
GROSS TONNAGE . . . . .	1,341	19	11	-	-	226
BOATS:						
MOTOR . . . . .	1,120	58	61	6	1	785
OTHER . . . . .	10	2	8	1	1	43
GEAR:						
NUMBER . . . . .	120,680	912	3,686	200	2	1,353
SQUARE YARDS . . . . .	-	-	-	-	-	692,409
G I L L N E T S - C O N T I N U E D						
ITEM	L I N E S				D I P N E T S, C O M M O N	S C R A P E S
	D R I F T	H A N D	L O N G O R S E T W I T H H O O K S	T R O T W I T H B A I T S		
FISHERMEN:						
ON VESSELS . . . . .	160	8	93	-	-	2
ON BOATS AND SHORE:						
REGULAR . . . . .	399	22	34	107	127	58
CASUAL . . . . .	495	55	20	35	87	29
TOTAL . . . . .	1,054	85	147	142	214	89
VESSELS, MOTOR . . . . .	75	3	17	-	-	1
GROSS TONNAGE . . . . .	730	35	1,332	-	-	14
BOATS:						
MOTOR . . . . .	511	46	52	130	213	70
OTHER . . . . .	22	12	-	-	1	-
GEAR:						
NUMBER . . . . .	639	1,249	77	130	214	120
SQUARE YARDS . . . . .	581,160	-	-	-	-	-
YARDS AT MOUTH . . . . .	-	-	-	-	-	194
HOOKS OR BAITS . . . . .	-	1,249	20,521	79,450	-	-

(CONTINUED ON NEXT PAGE)

## CHESAPEAKE FISHERIES

## VIRGINIA - OPERATING UNITS BY GEAR, 1964 - Continued

ITEM	DREDGES				TONS	
	CLAM	CRAB	OYSTER, COMMON	SCALLOP	OYSTER	OTHER
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS . . . . .	7	413	376	20	356	103
ON BOATS AND SHORE:						
REGULAR . . . . .	39	48	293	-	1,287	604
CASUAL . . . . .	13	41	110	-	885	285
TOTAL . . . . .	59	502	779	20	2,526	992
VESSELS, MOTOR . . . . .	3	153	145	2	175	51
GROSS TONNAGE . . . . .	33	3,243	1,419	371	1,265	359
BOATS:						
MOTOR . . . . .	33	-	202	-	1,563	537
OTHER . . . . .	-	48	-	-	20	60
GEAR:						
NUMBER . . . . .	36	362	444	4	2,526	992
YARDS AT MOUTH . . . . .	29	596	493	14	-	-
ITEM	RAKES		BY HAND		TOTAL, EX- CLUSIVE OF DUPLICATION	
	OYSTER	OTHER	OYSTER	OTHER		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
FISHERMEN:						
ON VESSELS . . . . .	-	2	-	-	-	2,707
ON BOATS AND SHORE:						
REGULAR . . . . .	15	345	65	350	3,954	
CASUAL . . . . .	10	173	20	85	2,668	
TOTAL . . . . .	25	520	85	435	9,349	
VESSELS, MOTOR . . . . .	-	1	-	-	-	723
GROSS TONNAGE . . . . .	-	6	-	-	-	21,802
BOATS:						
MOTOR . . . . .	14	330	24	72	3,991	
OTHER . . . . .	6	51	8	18	688	
GEAR, NUMBER . . . . .	25	520	-	-	-	



# CHESAPEAKE FISHERIES

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## VIRGINIA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		PURSE SEINES, MENHADEN		OTTER TRAWLS, FISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	557,600	\$10,596	-	-	-	-
BLUEFISH . . . . .	103,000	14,035	-	-	9,700	\$1,262
BONITO . . . . .	5,400	512	-	-	-	-
BUTTERFISH . . . . .	276,100	24,525	-	-	562,300	37,204
CABIO . . . . .	4,500	205	-	-	-	-
CARP . . . . .	116,700	2,400	-	-	-	-
CATFISH AND BULLHEADS . . . . .	211,200	15,175	-	-	-	-
COD . . . . .	-	-	-	-	1,800	201
CROAKER . . . . .	83,300	12,518	-	-	58,100	12,717
DRUM:						
BLACK . . . . .	15,000	432	-	-	1,700	60
RED . . . . .	2,500	218	-	-	-	-
EELS, COMMON . . . . .	12,900	1,111	-	-	400	20
FLOUNDERS:						
BLACKBACK . . . . .	6,300	319	-	-	15,100	780
DAD . . . . .	-	-	-	-	33,800	1,384
FLUKE . . . . .	115,500	21,190	-	-	1,120,600	203,150
YELLOWTAIL . . . . .	-	-	-	-	2,000	120
GARFISH . . . . .	2,800	56	-	-	-	-
GIZZARD SHAD . . . . .	39,900	461	-	-	-	-
HAKE:						
RED . . . . .	-	-	-	-	8,300	322
WHITE . . . . .	-	-	-	-	300	20
HARVESTFISH . . . . .	50,900	5,308	-	-	64,900	6,010
HICKORY SHAD . . . . .	9,800	442	-	-	-	-
KING MACKEREL . . . . .	15,400	1,949	-	-	34,500	3,225
KING WHITING OR "KINGFISH"	11,100	1,011	-	-	36,800	5,136
MACKEREL . . . . .	-	-	-	-	-	-
MENHADEN . . . . .	1,973,400	31,834	296,995,100	\$4,247,030	-	-
MULLET, BLACK . . . . .	13,500	1,240	-	-	7,900	735
PIGFISH . . . . .	300	17	-	-	200	9
SCUP OR PORGY . . . . .	400	23	-	-	10,925,500	607,792
SEA BASS . . . . .	200	20	-	-	3,453,200	324,233
SEA ROBIN . . . . .	-	-	-	-	6,300	66
SEA TROUT OR WEAKFISH:						
GRAY . . . . .	420,200	41,777	-	-	80,500	6,349
SPOTTED . . . . .	9,200	2,470	-	-	-	-
SHAD . . . . .	19,100	2,568	-	-	-	-
SHARKS:						
GRAYFISH . . . . .	7,600	194	-	-	76,600	3,043
UNCLASSIFIED . . . . .	9,800	209	-	-	10,400	228
SPANISH MACKEREL . . . . .	9,200	1,316	-	-	300	37
SPOT . . . . .	1,680,400	279,093	-	-	7,200	390
STRIPED BASS . . . . .	547,900	88,165	-	-	100	10
STURGEON, COMMON . . . . .	1,400	343	-	-	6,600	1,326
SUCKERS . . . . .	200	13	-	-	-	-
SWELLFISH . . . . .	849,100	11,384	-	-	26,400	684
TAUTOG . . . . .	100	5	-	-	500	20
TILEFISH . . . . .	-	-	-	-	2,500	220
TUNA, LITTLE . . . . .	600	12	-	-	-	-
WHITE PERCH . . . . .	86,000	5,371	-	-	800	.30
WHITING . . . . .	-	-	-	-	35,500	1,273
YELLOW PERCH . . . . .	10,300	917	-	-	-	-
UNCLASSIFIED:						
FOR FOOD . . . . .	7,000	700	-	-	1,400	141
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	-	-	-	-	374,000	4,216
LOBSTERS, NORTHERN . . . . .	-	-	-	-	25,000	11,372
CONCHS . . . . .	-	-	-	-	25,900	2,044
SQUID . . . . .	-	-	-	-	206,100	10,830
TOTAL . . . . .	7,267,800	580,134	296,995,100	4,247,030	17,223,200	1,246,659

SPECIES	POUND NETS		FYKE AND HOOP NETS	
	FISH	CRAB		
ALEWIVES . . . . .	POUNDS	VALUE	POUNDS	VALUE
24,053,400	\$440,294	-	-	-
26,160,000	35,657	-	-	-
8,400	710	-	-	-
BUTTERFISH . . . . .	368,400	32,675	-	-
CABIO . . . . .	5,100	233	-	-
CARP . . . . .	5,200	112	-	-
CATFISH AND BULLHEADS . . . . .	60,500	4,386	40,900	927
CROAKER . . . . .	234,600	34,700	255,500	18,129
DRUM:			-	-
BLACK . . . . .	30,100	1,031	-	-
RED . . . . .	2,000	170	-	-
EELS, COMMON . . . . .	50,000	4,573	33,200	2,658

(CONTINUED ON NEXT PAGE)

## CHESAPEAKE FISHERIES

## VIRGINIA - CATCH BY GEAR, 1964 - Continued

SPECIES	POUND NETS				FYKE AND HOOP NETS	
	FISH		CRAB			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS:						
BLACKBACK . . . . .	20,400	\$1,004	-	-	100	\$4
FLUKE . . . . .	239,900	49,938	-	-	-	-
GARFISH . . . . .	200	10	-	-	-	-
GIZZARD SHAD . . . . .	16,700	206	-	-	18,300	210
HARVESTFISH . . . . .	52,200	5,369	-	-	-	-
HICKORY SHAD . . . . .	27,100	1,275	-	-	6,800	282
KING MACKEREL . . . . .	21,300	2,663	-	-	-	-
KING WHITING OR "KINGFISH" . . . . .	12,400	1,166	-	-	-	-
MACKEREL . . . . .	1,500	187	-	-	-	-
MENHADEN . . . . .	31,358,000	512,911	-	-	375,300	6,466
MULLET, BLACK . . . . .	12,000	1,124	-	-	1,400	101
PIGFISH . . . . .	1,600	65	-	-	-	-
SCUP OR PORGY . . . . .	2,600	230	-	-	-	-
SEA BASS . . . . .	600	65	-	-	-	-
SEA TROUT OR WEAKFISH:						
GRAY . . . . .	1,040,500	107,183	-	-	-	-
SPOTTED . . . . .	14,200	3,691	-	-	-	-
SHAD . . . . .	1,395,500	173,346	-	-	109,700	13,685
SHARKS:						
GRAYFISH . . . . .	14,800	446	-	-	-	-
UNCLASSIFIED . . . . .	5,700	118	-	-	-	-
SPANISH MACKEREL . . . . .	23,600	3,392	-	-	-	-
SPOTTED . . . . .	650,600	139,535	-	-	-	-
STRIPED BASS . . . . .	595,300	95,451	-	-	16,100	2,250
STURGEON, COMMON . . . . .	1,400	343	-	-	184,500	32,115
SUCKERS . . . . .	-	-	-	-	100	25
SWELLFISH . . . . .	3,203,500	55,436	-	-	200	14
TAUTOG . . . . .	300	15	-	-	-	-
TUNA, LITTLE . . . . .	500	10	-	-	-	-
WHITE PERCH . . . . .	103,100	7,176	-	-	61,500	5,240
YELLOW PERCH . . . . .	6,500	985	-	-	10,300	932
UNCLASSIFIED:						
FOR FOOD . . . . .	26,500	2,450	-	-	-	-
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	637,900	14,239	-	-	-	-
CRABS, BLUE:						
HARD . . . . .	-	-	225,100	\$14,591	-	-
SOFT AND PEELER . . . . .	-	-	374,900	167,841	-	-
CONCHS . . . . .	2,000	150	-	-	-	-
TERRAPIN . . . . .	-	-	-	-	1,200	328
TOTAL . . . . .	64,771,100	1,730,164	600,000	182,432	3,109,000	121,742

SPECIES	POTS AND TRAPS					
	CRAB		EEL		FISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH AND BULLHEADS . . . . .	-	-	661,500	\$57,920	-	-
EELS, COMMON . . . . .	-	-	5,000	400	-	-
SEA BASS . . . . .	-	-	291,500	35,905	-	-
SWELLFISH . . . . .	7,500	\$225	-	-	193,600	5,687
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD, CRABS, BLUE:	-	-	-	-	-	-
HARD . . . . .	-	-	1,800	35	-	-
SOFT AND PEELER . . . . .	35,579,900	2,407,047	-	-	-	-
LOBSTERS, NORTHERN . . . . .	369,000	171,413	-	-	2,700	1,100
CONCHS . . . . .	33,400	2,615	-	-	10,100	1,513
TURTLES, SNAPPER . . . . .	-	-	-	-	37,300	\$5,750
TOTAL . . . . .	35,989,800	2,581,300	212,000	11,467	1,366,200	102,561

SPECIES	GILL NETS			
	SLAT TRAPS		ANCHOR, SET OR STAKE	
	SHAD		DRIFT	
POUNDS	VALUE	POUNDS	VALUE	POUNDS
ALEWIVES . . . . .	\$1,400	32,500	\$605	-
BLUEFISH . . . . .	-	6,500	880	-
BUTTERFISH . . . . .	-	2,000	200	-
CARP . . . . .	-	7,200	134	\$10
CATFISH AND BULLHEADS . . . . .	-	2,700	152	-
CROAKER . . . . .	-	3,400	615	-
FLOUNDERS, FLUKE . . . . .	-	300	60	-
HERRING, SEA . . . . .	-	-	-	400

(CONTINUED ON NEXT PAGE)

# CHESAPEAKE FISHERIES

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## VIRGINIA - CATCH BY GEAR, 1964 - Continued

SPECIES	SLAT TRAPS	GILL NETS							
		ANCHOR, SET OR STAKE		SHAD		DRIFT			
		POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HICKORY SHAD . . . . .	200	\$10	7,400	\$338	6,300	\$271	-	-	-
KING WHITING OR "KINGFISH" . . . . .	-	-	300	27	-	-	2,900	\$95	
MACKEREL . . . . .	-	-	-	-	-	-	304,600	30,355	
MENHADEN . . . . .	-	-	6,000	90	700	12	-	-	
MULLET, BLACK . . . . .	1,000	75	6,300	617	-	-	8,100	749	
PIG FISH . . . . .	-	-	1,200	62	-	-	-	-	
SIMP OR PORGY . . . . .	-	-	300	31	-	-	-	-	
SEA TROUT OR WEAKFISH, GRAY . . . . .	-	-	1,000	101	-	-	49,900	5,444	
SHAD . . . . .	100	12	691,300	81,746	435,500	54,662	200	12	
SHARKS; GRAYFISH . . . . .	-	-	4,200	88	-	-	1,167,300	17,202	
UNCLASSIFIED . . . . .	-	-	-	-	-	-	700	26	
SPOT . . . . .	-	-	217,500	41,011	-	-	425,400	71,761	
STRIPED BASS . . . . .	400	65	523,400	80,569	33,800	4,695	300	35	
STURGEON, COMMON . . . . .	-	-	-	-	-	-	1,200	141	
SUCKERS . . . . .	-	-	1,100	79	-	-	-	-	
SWEET FISH . . . . .	-	-	3,300	66	-	-	500	10	
WHITE PERCH . . . . .	-	-	15,600	1,031	-	-	2,500	205	
YELLOW PERCH . . . . .	-	-	1,600	160	-	-	-	-	
UNCLASSIFIED: FOR FOOD . . . . .	-	-	5,100	609	-	-	-	-	
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	-	-	16,400	209	-	-	7,400	148	
TOTAL. . . . .	73,300	1,562	1,556,800	209,480	476,600	59,850	1,995,100	129,777	

SPECIES	LINES								DIP NETS, COMMON	
	HAND		LONG OR SET WITH HOOKS		TROT WITH BAITS					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE		
BLUEFISH . . . . .	100	\$10	-	-	-	-	-	-		
BONITO . . . . .	100	9	-	-	-	-	-	-		
CALICO . . . . .	2,900	110	-	-	-	-	-	-		
CATFISH AND BULLHEADS . . . . .	-	-	68,800	\$4,952	-	-	-	-		
COB . . . . .	-	-	26,600	2,961	-	-	-	-		
DRUM: BLACK . . . . .	21,400	885	-	-	-	-	-	-		
RED. . . . .	100	7	-	-	-	-	-	-		
EELS, COMMON . . . . .	-	-	200	17	-	-	-	-		
FLOUNDERS, FLUKE . . . . .	2,700	594	-	-	-	-	-	-		
MULLET, BLACK . . . . .	400	50	-	-	-	-	-	-		
SCUP OR PORGY . . . . .	100	17	-	-	-	-	-	-		
SEA BASS . . . . .	6,900	1,105	-	-	-	-	-	-		
SEA TROUT OR WEAKFISH, GRAY . . . . .	800	95	-	-	-	-	-	-		
SHARKS, GRAYFISH . . . . .	-	-	2,600	71	-	-	-	-		
SPOT . . . . .	600	150	-	-	-	-	-	-		
STRIPED BASS . . . . .	100	20	-	-	-	-	-	-		
SWORDFISH . . . . .	-	-	635,400	217,946	-	-	-	-		
TUNA, UNCLASSIFIED . . . . .	-	-	122,800	8,731	-	-	-	-		
UNCLASSIFIED: FOR FOOD . . . . .	700	50	-	-	-	-	-	-		
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	-	-	400	6	-	-	-	-		
CRABS, BLUE: HARD . . . . .	-	-	-	-	2,587,500	\$163,759	39,200	\$2,572		
SOFT AND PEELER . . . . .	-	-	-	-	20,900	9,588	73,000	32,772		
TERRAPIN . . . . .	-	-	-	-	-	-	200	55		
TURTLES, SNAPPER . . . . .	148,700	22,714	-	-	-	-	-	-		
TOTAL. . . . .	185,600	25,816	856,800	234,704	2,608,400	173,347	112,400	35,399		

(CONTINUED ON NEXT PAGE)



## CHESAPEAKE FISHERIES

## VIRGINIA - CATCH BY GEAR, 1964 - Continued

SPECIES	SCRAPES		DREDGES					
			CLAM		CRAB			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE		
CRABS, BLUE; HARD	1,800	\$128	4,000	\$308	13,134,500	\$796,624		
SOFT AND PEELER	139,700	61,482	-	-	-	-		
CLAMS, HARD, PUBLIC	-	-	204,000	119,123	113,800	56,571		
CONCHS	-	-	-	-	199,900	10,686		
TERRAPIN	-	-	300	100	-	-		
TOTAL.	141,500	61,610	208,300	119,531	13,448,200	863,881		
SPECIES	DREDGES - CONTINUED				TONGS			
	OYSTER, COMMON		SCALLOP		OYSTER		OTHER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, FLUKE	-	-	13,400	\$2,000	-	-	-	-
CLAMS, HARD; PUBLIC	1,900	\$900	-	-	-	-	1,395,400	\$677,978
PRIVATE	27,500	13,805	-	-	-	-	161,500	89,596
CONCHS	700	35	-	-	-	-	-	-
OYSTERS, MARKET; PUBLIC; SPRING	-	-	-	-	1,128,300	\$821,529	-	-
FALL	-	-	-	-	1,921,600	1,378,125	-	-
PRIVATE; SPRING	4,953,500	3,656,748	-	-	215,700	185,979	-	-
FALL	5,431,500	3,963,584	-	-	217,700	157,674	-	-
SCALLOPS, SEA	-	-	193,600	94,869	-	-	-	-
TOTAL.	10,415,100	7,635,073	207,000	96,869	3,483,300	2,513,307	1,576,900	767,576
SPECIES	RAKES				BY HAND			
	OYSTER		OTHER		OYSTER		OTHER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS, BLUE, SOFT AND PEELER	-	-	-	-	-	-	20,200	\$9,067
CLAMS, HARD; PUBLIC	-	-	282,100	\$137,603	-	-	145,000	73,252
PRIVATE	-	-	101,900	50,601	-	-	-	-
OYSTERS, MARKET, PUBLIC; SPRING	103,000	\$77,250	-	-	1,800	\$1,350	-	-
FALL	176,000	132,000	-	-	1,100	825	-	-
TOTAL.	279,000	209,250	384,000	188,204	2,900	2,175	165,200	82,319



# CHESAPEAKE FISHERIES

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## CHESAPEAKE STATES - CATCH BY WATERS, 1964

SPECIES	MARYLAND				VIRGINIA	
	OCEAN 1/		CHESAPEAKE BAY		OCEAN 1/	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	100	\$1	1,313,700	\$26,245	-	-
BLUEFISH . . . . .	3,900	449	2,200	239	13,600	\$1,726
BONITO . . . . .	-	-	-	-	100	9
BUTTERFISH . . . . .	29,700	2,449	3,000	302	562,800	37,262
CARP . . . . .	-	-	167,300	4,893	23,700	498
CATFISH AND BULLHEADS . . . . .	-	-	391,600	27,599	-	-
COD . . . . .	13,300	2,021	-	-	28,400	3,162
CRAPPIE . . . . .	-	-	5,400	309	-	-
CROAKER . . . . .	-	-	2,400	527	59,500	12,992
DRUM, BLACK . . . . .	200	8	1,800	108	5,700	219
EELS, COMMON . . . . .	200	5	185,800	18,067	400	20
FLOUNDERS . . . . .	-	-	-	-	-	-
BLACKBACK . . . . .	19,900	723	5,800	.694	16,900	.959
DAB . . . . .	-	-	-	-	33,800	1,384
FLUKE . . . . .	537,100	108,478	20,400	3,130	1,153,200	209,135
YELLOWTAIL . . . . .	-	-	-	-	2,000	120
UNCLASSIFIED . . . . .	900	49	-	-	-	-
GIZZARD SHAD . . . . .	-	-	11,400	205	-	-
HAKE:						
RED . . . . .	19,600	370	-	-	8,300	322
WHITE . . . . .	-	-	-	-	300	20
HARVESTFISH . . . . .	-	-	-	-	64,900	6,010
HERRING, SEA . . . . .	13,300	144	-	-	400	5
HICKORY SHAD . . . . .	-	-	14,800	.995	-	-
HOGCHOKER . . . . .	-	-	9,100	183	-	-
KING WHITING OR "KINGFISH". . . . .	14,600	1,174	-	-	38,300	3,407
MACKEREL . . . . .	13,300	593	100	16	341,400	35,491
MENHADEN . . . . .	5,000	100	5,701,300	91,039	45,696,000	656,313
MULLET . . . . .	900	57	-	-	11,100	1,038
PIGFISH . . . . .	-	-	200	5	2,100	110
PIKE OR PICKEREL . . . . .	-	-	-	-	-	-
SCUP OR PORGY . . . . .	217,600	11,882	-	-	10,927,700	606,014
SEA BASS . . . . .	292,300	29,014	-	-	3,751,500	361,235
SEA ROBIN . . . . .	525,400	5,254	-	-	6,300	66
SEA TROUT OR WEAKFISH, GRAY. . . . .	154,400	14,217	17,600	1,921	81,600	6,472
SHAD . . . . .	1,100	148	889,000	115,638	14,000	1,163
SHARKS:						
GRAYFISH . . . . .	27,300	1,124	-	-	1,252,300	20,468
UNCLASSIFIED . . . . .	85,300	2,491	-	-	11,100	254
SKATES . . . . .	5,900	36	-	-	-	-
SPANISH MACKEREL . . . . .	-	-	-	-	300	37
SPOT . . . . .	8,000	1,647	25,900	4,574	102,900	18,577
STRIED BASS . . . . .	1,800	236	3,299,000	537,355	3,500	565
STURGEON . . . . .	15,300	2,217	-	-	7,600	1,467
SUCKER . . . . .	-	-	800	18	-	-
SUNFISH . . . . .	-	-	21,400	1,200	-	-
SWELLFISH . . . . .	16,600	402	783,700	24,094	391,800	9,427
SWORDFISH . . . . .	-	-	-	-	635,400	217,946
TAUTOG . . . . .	1,600	42	-	-	500	20
TILEFISH . . . . .	-	-	-	-	2,500	220
TUNA:						
BLUEFIN . . . . .	1,448,700	185,753	-	-	-	-
SKIPJACK . . . . .	1,112,900	111,292	-	-	-	-
YELLOWFIN . . . . .	276,000	35,983	-	-	-	-
UNCLASSIFIED . . . . .	-	-	-	-	122,800	8,731
WHITE PERCH . . . . .	600	45	637,600	79,197	3,200	370
WHITING . . . . .	130,800	3,109	-	-	35,500	1,273
YELLOW PERCH . . . . .	-	-	131,800	14,900	-	-
UNCLASSIFIED:						
FOR FOOD . . . . .	600	20	1,400	84	2,300	226
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	9,535,900	61,966	-	-	410,500	4,851
CRABS, BLUE:						
HARD . . . . .	242,500	18,115	22,297,700	1,590,956	5,648,200	424,975
SOFT, AND PEELER . . . . .	6,000	2,166	3,491,900	1,260,573	195,500	95,811
LOBSTERS, NORTHERN . . . . .	3,500	1,705	-	-	27,700	12,472
CLAMS:						
HARD:						
PUBLIC . . . . .	275,100	142,046	56,900	29,457	1,242,300	620,243
PRIVATE . . . . .	-	-	-	-	26,200	12,379
SOFT, PUBLIC . . . . .	-	-	8,164,300	1,667,098	-	-
SURF . . . . .	37,800	3,337	-	-	-	-
CONCHS . . . . .	30,700	3,302	-	-	51,700	4,001
OYSTERS, MARKET:						
PUBLIC:						
SPRING . . . . .	-	-	2,532,700	1,696,486	58,800	44,100
FALL . . . . .	-	-	4,270,500	2,617,105	322,000	241,500
PRIVATE:						
SPRING . . . . .	120,600	166,724	345,100	225,199	881,600	661,200
FALL . . . . .	137,400	198,060	541,400	357,063	782,900	587,175

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# CHESAPEAKE FISHERIES

## CHESAPEAKE STATES - CATCH BY WATERS, 1964 - Continued

SPECIES	MARYLAND				VIRGINIA	
	OCEAN 1/		CHESAPEAKE BAY		OCEAN 1/	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SCALLOPS, SEA . . . . .	-	-	-	-	193,600	\$94,869
SQUID . . . . .	26,900	\$2,483	-	-	206,300	10,830
TERRAPIN . . . . .	-	-	7,400	\$2,632	300	100
TURTLES, SNAPPER . . . . .	-	-	57,600	6,970	-	-
TOTAL . . . . .	15,414,800	1,121,466	55,412,800	10,607,886	75,663,300	5,041,259
SPECIES	VIRGINIA - CONTINUED				TOTAL	
	CHESAPEAKE BAY		OCEAN 1/		CHESAPEAKE BAY	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	26,640,000	\$489,572	100	\$1	27,953,700	\$515,817
BLEUFISH . . . . .	361,600	52,062	17,500	2,175	383,800	52,301
BONITO . . . . .	13,800	1,222	100	9	13,800	1,222
BUTTERFISH . . . . .	648,100	57,355	592,500	39,711	651,100	57,657
CABIO . . . . .	12,500	548	-	-	12,500	548
CARP . . . . .	146,600	3,085	23,700	498	313,900	7,978
CATFISH AND BULLHEADS . . . . .	1,460,200	100,716	-	-	1,651,600	126,315
COD . . . . .	-	-	41,700	5,203	-	-
CRAPPIE . . . . .	334,700	49,907	59,500	12,992	337,100	50,434
CROAKER . . . . .	-	-	-	-	-	-
DROPSY . . . . .	-	-	-	-	-	-
BLACK . . . . .	62,500	2,189	5,900	227	64,300	2,297
RED . . . . .	4,600	395	-	-	4,600	395
EELS, COMMON . . . . .	313,300	20,426	600	25	499,100	38,493
FLOUNDERS; . . . . .	-	-	-	-	-	-
BLACKBACK . . . . .	25,000	1,148	36,800	1,662	30,800	1,842
DAG . . . . .	-	-	33,800	1,384	-	-
FLUKE . . . . .	339,200	67,497	1,690,300	317,613	359,600	70,627
YELLOWTAIL . . . . .	-	-	2,000	120	-	-
UNCLASSIFIED . . . . .	-	-	900	49	-	-
GARFISH . . . . .	3,000	66	-	-	3,000	66
GIZZARD SHAD . . . . .	74,900	879	-	-	86,300	1,084
HAKE . . . . .	-	-	-	-	-	-
RED . . . . .	-	-	27,900	692	-	-
WHITE . . . . .	-	-	300	20	-	-
HARVESTFISH . . . . .	103,100	10,677	64,900	6,010	103,100	10,677
HERRING, SEA . . . . .	-	-	13,700	149	-	-
HICKORY SHAD . . . . .	57,600	2,618	-	-	72,400	3,613
HOGCHOKER . . . . .	-	-	-	-	9,100	183
KING MACKEREL . . . . .	36,700	4,612	-	-	36,700	4,612
KING WHITING OR "KINGFISH" . . . . .	22,900	2,117	52,900	4,581	22,900	2,117
MACKEREL . . . . .	1,500	187	354,700	36,084	1,600	203
MENHADEN . . . . .	264,812,500	4,142,030	45,901,000	656,413	290,513,000	4,233,059
MULLET . . . . .	39,500	3,653	12,000	1,095	39,500	3,653
PIGFISH . . . . .	1,200	63	2,300	115	1,200	63
PIKE OR PICKEREL . . . . .	-	-	-	-	4,000	815
SCUP OR PORGY . . . . .	1,400	79	11,145,300	619,896	1,400	79
SEA BASS . . . . .	900	94	4,044,800	390,249	900	94
SEA ROBIN . . . . .	-	-	531,700	5,320	-	-
SEA TROUT OR WEAKFISH: . . . . .	-	-	-	-	-	-
GRAY SPOTTED . . . . .	1,511,300	154,477	236,000	20,689	1,528,900	156,398
SHAD . . . . .	23,400	6,161	-	-	23,400	6,161
SKATE . . . . .	2,637,400	325,068	15,100	1,311	3,526,400	440,706
SKATE: . . . . .	-	-	-	-	-	-
GRAYFISH UNCLASSIFIED . . . . .	20,800	576	1,279,600	21,592	20,800	576
SKATES . . . . .	15,500	327	96,400	2,745	15,500	327
SPANISH MACKEREL . . . . .	-	-	5,900	38	-	-
SPOT . . . . .	3,094,900	4,708	300	37	32,800	4,708
STRIPED BASS . . . . .	511,613	110,900	20,224	3,120,800	516,187	
STURGEON . . . . .	1,885,500	300,570	5,300	603	5,183,500	837,925
SUCKERS . . . . .	2,900	711	23,300	3,684	2,900	711
SUNFISH . . . . .	1,500	105	-	-	2,300	124
SWELLFISH . . . . .	3,955,600	64,947	408,400	9,829	21,400	1,200
SWOODFISH . . . . .	-	-	635,400	217,946	-	-
TAUTOG . . . . .	400	20	2,100	52	400	20
TILETFISH . . . . .	-	-	2,500	220	-	-
TUNA: . . . . .	-	-	-	-	-	-
BLUDEFIN . . . . .	-	-	1,448,700	185,753	-	-
LITTLE . . . . .	1,100	22	-	-	1,100	22
SKIPJACK . . . . .	-	-	1,112,900	111,292	-	-
YELLOWFIN . . . . .	-	-	276,800	35,983	-	-
UNCLASSIFIED . . . . .	-	-	122,800	6,731	-	-
WHITE PERCH . . . . .	266,300	16,683	3,800	415	903,900	97,880
YELLOW PERCH . . . . .	26,900	2,594	165,300	4,362	160,700	17,494
UNCLASSIFIED: FOR FOOD . . . . .	38,400	3,734	2,900	246	39,800	3,818
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	627,400	14,002	9,946,400	66,837	627,400	14,002

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# CHESAPEAKE FISHERIES

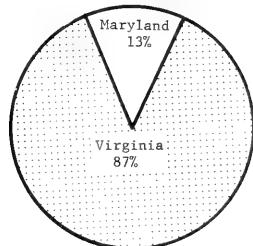
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## CHESAPEAKE STATES - CATCH BY WATERS, 1964 - Continued

SPECIES	VIRGINIA - CONTINUED		TOTAL			
	CHESAPEAKE BAY		OCEAN 1/		CHESAPEAKE BAY	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS, BLUE:						
HARD . . . . .	45,923,800	\$2,960,054	5,890,700	\$443,090	68,221,500	\$4,551,010
SOFT AND PEELER. . . . .	802,200	356,352	201,500	97,977	4,294,100	1,616,925
LOBSTERS, NORTHERN . . . . .	-	-	31,200	14,177	-	-
CLAMS:						
HARD:						
PUBLIC . . . . .	899,900	445,184	1,517,400	762,289	956,800	474,641
PRIVATE. . . . .	284,700	141,626	26,200	12,379	284,700	141,626
SOFT, PUBLIC . . . . .	-	-	-	-	8,164,300	1,657,096
SURF . . . . .	-	-	37,600	3,337	-	-
CONCHS . . . . .	210,200	11,529	62,400	7,303	210,200	11,529
OYSTERS, MARKET:						
PUBLIC:						
SPRING . . . . .	1,174,300	656,029	58,800	44,100	3,707,000	2,552,515
FALL . . . . .	1,776,700	1,269,450	322,000	241,500	5,047,200	4,086,555
PRIVATE:						
SPRING . . . . .	4,287,600	3,151,527	1,002,200	827,924	4,532,700	3,376,726
FALL . . . . .	4,866,300	3,534,083	920,300	785,235	5,407,700	3,891,146
SCALLOPS, SEA. . . . .	-	-	193,600	94,669	-	-
QUID. . . . .	-	-	235,000	13,313	-	-
TERRAPIN . . . . .	1,400	383	300	100	8,800	3,015
TURTLES, SNAPPER . . . . .	196,100	29,977	-	-	253,700	36,947
TOTAL . . . . .	390,104,600	19,177,710	91,078,100	6,162,725	445,517,400	29,785,596

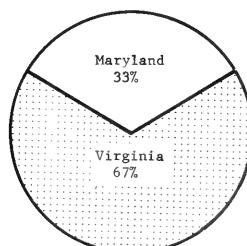
1/ INCLUDES BAYS AND CREEKS, EXCLUSIVE OF CHESAPEAKE BAY, WHICH DRAIN INTO THE ATLANTIC OCEAN.

## CHESAPEAKE STATES CATCH, 1964



TOTAL 536,595,500 pounds

## VALUE OF CHESAPEAKE STATES CATCH, 1964



TOTAL \$35,948,321

# CHESAPEAKE FISHERIES

## POTOMAC RIVER SHAD AND ALEWIFE FISHERY

The shad catch in the Potomac River was 163,410 fish weighing 474,300 pounds and valued at \$34,993 to the fishermen. This was an increase of 87 percent in number and 121 percent in poundage, but a decline of 2 percent in value compared with 1963. Landings were the highest since 1957, when 624,400 pounds were taken, but they were far below the 1922 record of 3.1 million pounds.

The Potomac River catch of alewives in 1964 was 18.8 million fish weighing 8.2 million pounds and valued at \$139,380. Compared with 1963, this was a gain of 11 percent in number and 2 percent in both poundage and value.

There were 486 fishermen in the Potomac River shad and alewife fisheries during 1964--an increase of 54 compared with 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, 1964

ITEM	MARYLAND		VIRGINIA		TOTAL	
	NUMBER		NUMBER		NUMBER	
OPERATING UNITS						
FISHERMEN:						
ON VESSELS . . . . .	-		28		28	
ON BOATS AND SHORE:						
REGULAR . . . . .	95		141		236	
CASUAL . . . . .	140		82		222	
TOTAL . . . . .	235		251		486	
VESSELS, MOTOR . . . . .	-		9		9	
GROSS TONNAGE . . . . .	-		74		74	
BOATS:						
MOTOR . . . . .	116		96		212	
OTHER . . . . .	15		35		50	
GEAR:						
HAUL SEINES,						
COMMON . . . . .	-		9		9	
LENGTH, YARDS . . . . .	-		5,200		5,200	
POUND NETS . . . . .	4		113		117	
FYKE AND HOOP NETS . . . . .	-		39		39	
GILL NETS:						
ANCHOR, SET OR STAKE . . . . .	210		154		364	
SQUARE YARDS . . . . .	160,650		101,000		261,650	
DRIFT . . . . .	12		12		24	
SQUARE YARDS . . . . .	12,200		15,100		27,300	
CATCH	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE
SHAD:	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE
HAUL SEINES . . . . .	-	-	-	1,103	3,200	\$200
POUND NETS . . . . .	103	300	\$35	89,310	259,400	17,226
FYKE AND HOOP NETS . . . . .	-	-	-	1,965	5,700	356
GILL NETS:						
ANCHOR, SET OR STAKE . . . . .	25,310	73,400	8,670	29,930	86,800	5,430
DRIFT . . . . .	862	2,500	291	14,827	43,000	2,820
TOTAL . . . . .	26,275	76,200	8,996	137,135	395,100	25,997
ALEWIVES:	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE
HAUL SEINES . . . . .	-	-	-	140,455	61,100	1,039
POUND NETS . . . . .	26,965	12,600	235	16,265,670	7,946,300	140,455
FYKE AND HOOP NETS . . . . .	-	-	-	318,850	138,700	318,850
GILL NETS, ANCHOR, SET OR STAKE . . . . .	37,241	16,200	266	-	-	-
TOTAL . . . . .	66,206	28,800	521	18,725,975	8,146,100	138,859
					18,792,181	8,174,900
						139,380

NOTE: --EXCLUDES TRIBUTARIES OF THE POTOMAC RIVER.

## SECTION 5 - SOUTH ATLANTIC FISHERIES <sup>189</sup>

The commercial catch of fish and shellfish landed at ports of the South Atlantic States (North Carolina, South Carolina, Georgia, and the East Coast of Florida), including the commercial catch from fresh-water areas of Florida, was 336.0 million pounds valued at \$20.6 million. Compared with the previous year, this was a decrease of 34.7 million pounds, but an increase of \$1.2 million. Greatly reduced catches of menhaden, alewives, mullet, and oysters were responsible for the lower landings. The increased value resulted from relatively high ex-vessel prices for shrimp.

The greatest decrease in landings was at East Coast of Florida ports, where receipts were 19 percent below those of 1963; Georgia decreased 13 percent; North Carolina, 7; and South Carolina, 1 percent. The value of landings in each of the South Atlantic States except South Carolina was up slightly.

Fishermen and vessels. The number of commercial fishermen continued downward--11,281 during 1964 compared with 11,940 in 1963; however, the decrease was in casual fishermen who derive less than 50 percent of their income from commercial fishing. A total of 1,108 vessels (craft of over 5 net tons) operated in the commercial fisheries during the year--49 less than in 1963. The 6,001 other craft that operated were 529 less than in 1963.

Processing. There were 423 wholesaling and processing firms operated--8 more than in 1963. The value of processed fishery products--\$52.5 million--was \$12.4 million higher than in the previous year. The gain was largely due to a sharp increase in the production of raw headless and breaded shrimp in Florida and Georgia.

Weather. The aftermath of five hurricanes--Cleo, Dora, Gladys, Hilda, and Isabel--hampered fishing during August and September; but only Cleo inflicted any appreciable damage, and this was limited to lobster pot losses and some destruction to shore plant installations in the Florida Keys area. Rainfall was exceptionally heavy in all States during July, and may have affected the set of oyster spat. The unusually warm November and December extended the growing period for shrimp in inside waters.

Shrimp. There was little improvement in shrimp catches in most waters of the South Atlantic States. Total landings were only 1.8 million pounds (heads-on weight) more than in 1963. The minor increase in landings aroused little optimism because the 1963 landings were the lowest since 1908. Fortunately, strong demand caused higher ex-vessel prices during most of the year. The higher ex-vessel prices increased the total value 26 percent whereas the volume increased only 11 percent. Many industry members were discouraged by 2 successive years of poor shrimp production. Several firms went out of business, and a number of vessel owners shifted their operations to the Gulf of Mexico on a full-time basis rather than seasonally as in the past.

Landings at North Carolina ports were nearly 1 million pounds greater than during 1963. Increased abundance of pink shrimp resulted in nearly normal landings of this species. The virtual disappearance of pink shrimp from North Carolina waters during 1963 caused the lowlandings for that State. Catches of brown shrimp, however, were 17 percent below those of the previous year. With unusually warm weather during the fall, shrimp remained in inshore waters and fishing continued through December. Compared with the previous year, the size of shrimp landed did not change significantly. The average ex-vessel price of 35 cents per pound (heads-on) was 3-1/2 cents per pound higher than in 1963.

In South Carolina, shrimp landings were up 20 percent from 1963 but were still well below the yearly average of 4 to 5 million pounds. For the second consecutive year, there were few white shrimp in South Carolina waters. The continued reduced catches caused depressed economic conditions among all segments of the shrimp industry, despite an increase of about 4 cents per pound (heads-on) in the ex-vessel value. Based on the results of sampling postlarval shrimp, the Bears Bluff Laboratory again warned the shrimp industry to expect greatly reduced catches.

## SOUTH ATLANTIC FISHERIES

Shrimp landings at Georgia ports were 9 percent above 1963 but 24 percent below the average for the 5-year period 1959-63. Brown shrimp catches were above average, but a continuing shortage of white shrimp caused a substantial decline in landings compared with the prior 5-year period. Larger shrimp comprised a greater portion of the landings and the average ex-vessel price of 39 cents per pound (heads-on) was 6 cents higher than during 1963. The royal red shrimp fishery, 75 miles offshore between Fernandina Beach and St. Augustine, Fla., produced 58,000 pounds (heads-on)--almost identical with 1963.

Both brown and white shrimp landings at East Coast of Florida ports were about the same as in the previous year. Average ex-vessel price per pound was 44 cents (heads-on) compared with 39 cents during 1963. The royal red shrimp fishery was again active and about 133,000 pounds (heads-on) were landed; no landings of this species were recorded in 1963.

**Menhaden.** Catches continued downward with a decrease of 9 percent at North Carolina ports and 33 percent for Florida East Coast. Catches in North Carolina waters during the peak production months, November and December, were light because adverse weather made fishing hazardous. One fully loaded purse seiner sank during a storm in late November. Large fish were scarce and arrived later in November than usual. Greater numbers of small fish in the catches caused a reduced oil yield. The market demand for menhaden products remained strong. The average price for meal advanced \$6.00 per ton; and oil, 15 cents per gallon over the previous year.

**Industrial fish.** Landings, mostly nonfoodfish, used for animal food or bait were about 750,000 pounds less than those of 1963. Temporary shortages of bait occurred in the crab fishery in Georgia and in both the crab and fresh-water catfish fisheries in South Carolina. Some bait fish were trucked in from the Gulf area during periods of shortages.

**Blue crabs.** Landings of 52 million pounds were about 1.2 million pounds above the record of the previous year. Many processors found it difficult to operate at a profit because new minimum wage laws caused increased labor costs. Considerable quantities of raw crabs were shipped from North Carolina and South Carolina, principally to the Chesapeake States. The use of trotlines with baits in North Carolina and South Carolina continued to decline as fishermen found pots or traps more efficient.

**Oysters.** Total production of 3.5 million pounds of meats was 27 percent less than the previous year and the lowest since 1959. While South Carolina continued to be the major production area, a decline of about 1.3 million pounds in landings in that State was the major reason for the sectional decrease. Several factors were involved in the decreased production in South Carolina. Two of these were weak demand for oysters during February and unusually heavy rains during July, which adversely affected the yield of meats during the fall season. Some industry members speculated that the strong demand of the previous year had resulted in overfishing.

In North Carolina, there was a reversal of the downward trend which began in 1959, with total landings about 5 percent higher than the previous year. The increase was due to greater productivity in the Pamlico Sound area where most single oysters are harvested. Production of cluster or "coon" oysters from waters of the five southernmost counties continued to decline. North Carolina processors and wholesalers found local supplies adequate for their needs and trucked few, if any, oysters in from other States as they had to do in prior years.

## SOUTH ATLANTIC FISHERIES

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Food finfish. Total landings of finfish for human consumption were 58.3 million pounds--about the same as in 1963. The value was up nearly \$200,000 from 1963, primarily because of increased landings of swordfish--the fishery for this species began in December 1963 and activity was greatly increased during 1964. Mullet landings were the lowest for any year, since 1880, in which surveys were conducted. Failure of mullet to appear in appreciable numbers along the coast caused a decline of 69 percent in South Carolina, 36 percent in North Carolina, and 16 percent in Florida. Extensive net damage by sharks along the coast of Florida caused net crews to curtail fishing, and reduced landings of king and Spanish mackerel resulted. Gray seatrout and spot increased 13 percent each over the previous year, and sea bass landings were up 11 percent. Cold weather during the spring delayed runs of alewives and shad.

Hard clams. Total production of 402,000 pounds of meats was nearly the same as in 1963, when 406,000 pounds were taken. A decrease of 77,000 pounds in North Carolina was compensated for by an increase in South Carolina. No offshore clams were harvested in North Carolina during 1964 because of the poor quality of the meats. South Carolina landings were double those of 1963 owing to the greater fishing effort that resulted when the poor shrimp season prompted more fishermen to harvest clams.

Scallops. North Carolina continued as the only producer of bay scallops among the South Atlantic States. While the volume increased only 6 percent, the value was up over 40 percent. Strict quality control standards initiated by North Carolina dealers during 1963 undoubtedly played an important part in the strong demand and higher prices paid for North Carolina bay scallop meats. Vessels operating off the coast of Carteret County were unable to find calico scallops in commercial quantities during 1964.

Fish kills. South Carolina was again plagued with a series of fish kills. On May 15, and for several days thereafter, a heavy kill of fiddler crabs and shrimp occurred in the vicinity of the Isle of Palms. Oyster samples taken from the same waters by the U. S. Public Health Service were found to contain small amounts of BHC (benzene hexachloride) and shipments of oysters from the area were prohibited for 15 days. Evidence indicated that the kill resulted from the use of BHC in a mosquito abatement program. A large fish kill occurred in the Ashley River and Charleston Harbor on June 21, and a smaller one in the Ashley River on November 18. A Bears Bluff Laboratory crew collected samples of dead fresh-water catfish, striped bass, croaker, spot, and menhaden which were forwarded to the South Carolina Water Pollution Control Authority for analysis to determine the causative agent in the kill.

ARA project. During June 1964, an Area Redevelopment Administration seafood processing project was started in Carteret County, N. C. The project involved the collection of background information on the possibilities for expanding the processing of the wide variety of marine species available in the area.

Other information. 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. 3910. Seasonal variations in the catch of fish and shellfish in North Carolina, South Carolina, Georgia, and Florida can be ascertained from the 1964 monthly and annual landing bulletins issued for each of these States. Additional data on many aspects of the South Atlantic fisheries may be found in the daily, monthly, and annual reports published by the Hampton, Va., Fishery Market News office of the Bureau.

Acknowledgments. The following organizations assisted the Bureau to collect the data appearing in this section: 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.

# SOUTH ATLANTIC FISHERIES



# SOUTH ATLANTIC FISHERIES

## SECTIONAL SUMMARIES SUMMARY OF CATCH, 1964

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

STATE	FISH		SHELLFISH, ETC.		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NORTH CAROLINA . . . . .	209	4	30	4	239	8
	7	1	15	2	22	3
	1	{1}	17	3	18	3
	44	4	13	3	57	7
TOTAL. . . . .	261	9	75	12	336	21

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. FOR THE PURPOSE OF THIS REPORT THE "EAST COAST OF FLORIDA" INCLUDES THE COASTAL COUNTIES FROM NASSAU TO DADE, INCLUSIVE.

## SUMMARY OF OPERATING UNITS, 1964

ITEM	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS . . . . .	2,027	386	667	852	3,442
ON BOATS AND SHORE;					
REGULAR. . . . .	2,346	724	480	1,673	5,223
CASUAL . . . . .	1,178	416	593	430	2,616
TOTAL. . . . .	5,551	1,526	1,740	2,955	11,261
VESSELS, MOTOR . . . . .	481	185	333	351	1,108
GROSS TONNAGE . . . . .	22,931	4,731	10,343	12,883	42,230
BOATS:					
MOTOR. . . . .	2,194	814	611	1,681	5,297
OTHER. . . . .	601	10	56	37	704
GEAR:					
HAUL SEINES:					
COMMON . . . . .	49	10	4	14	77
LENGTH, YARDS . . . . .	13,855	2,500	625	5,450	22,430
LONG . . . . .	35	-	-	-	35
LENGTH, YARDS . . . . .	48,950	-	-	-	48,950
PURSE SEINES:					
MENHADEN . . . . .	60	-	-	-	63
LENGTH, YARDS . . . . .	24,120	-	-	1,200	25,320
OTHER . . . . .	-	-	-	-	2
LENGTH, YARDS . . . . .	-	-	-	400	400
BAG NETS . . . . .	33	-	-	-	33
YARDS AT MOUTH . . . . .	825	-	-	-	825
OTTER TRAWLS:					
CRAB . . . . .	251	19	164	-	432
YARDS AT MOUTH . . . . .	3,842	375	2,584	-	6,774
FISH . . . . .	96	-	-	-	96
YARDS AT MOUTH . . . . .	2,364	-	-	-	2,364
SHRIMP . . . . .	840	377	819	608	2,214
YARDS AT MOUTH . . . . .	14,111	7,319	11,048	9,188	35,017
POUND NETS, FISH . . . . .	604	-	-	-	613
FYKE AND HOB NETS, FISH . . . . .	80	-	-	320	400
POTS AND TRAPS:					
CRAB:					
BLUE . . . . .	28,500	11,795	9,635	13,600	63,530
OTHER. . . . .	-	-	-	5,500	5,500
EEL. . . . .	550	-	-	200	750
FISH . . . . .	4,846	2,679	446	7,490	15,461
LOBSTER, SPINY . . . . .	-	-	-	40,100	40,100
TURTLE . . . . .	80	-	-	-	80
GILL NETS:					
ANCHOR, SET OR STAKE . . .	2,382	25	53	26	2,483
SQUARE YARDS . . . . .	742,480	18,750	9,577	28,350	798,257
DRIFT:					
SHAD . . . . .	152	77	253	14	496
SQUARE YARDS . . . . .	38,400	26,000	128,430	19,860	212,690
OTHER. . . . .	76	24	-	-	100
SQUARE YARDS . . . . .	30,480	2,740	-	-	33,220
RUNAROUND . . . . .	158	-	-	-	452
SQUARE YARDS . . . . .	135,860	-	-	593,830	729,690
TRAMMEL NETS . . . . .	-	-	-	-	11
SQUARE YARDS . . . . .	-	-	-	10,200	10,200

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# SOUTH ATLANTIC FISHERIES

## SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
<b>GEAR - CONTINUED:</b>					
LINES:					
HAND . . . . .	324	10	26	582	942
HOOKS . . . . .	347	20	52	984	1,403
TROLL . . . . .	-	-	16	458	474
HOOKS . . . . .	-	-	16	458	474
LONG OR SET WITH HOOKS . . . . .	37	-	401	602	1,040
HOOKS . . . . .	22,016	-	20,050	647,625	689,691
TROT WITH BAITS . . . . .	327	48	2	16	393
BAITS . . . . .	507,000	33,500	1,300	11,000	552,800
DIP NETS:					
COMMON . . . . .	100	-	-	1	101
DROP . . . . .	-	-	1,875	-	1,875
CAST NETS . . . . .	-	8	7	4	19
SPEARS . . . . .	117	5	-	3	125
DREDGES:					
CLAM . . . . .	21	-	-	-	21
YARDS AT MOUTH . . . . .	28	-	-	-	28
OYSTER, COMMON . . . . .	164	-	-	-	164
YARDS AT MOUTH . . . . .	220	-	-	-	220
SCALLOP . . . . .	80	-	-	-	80
YARDS AT MOUTH . . . . .	80	-	-	-	80
TONGS AND GRABS, OYSTER . . . . .	101	238	26	9	374
RAKES . . . . .	218	46	-	5	269
HOOKS, SPONGE . . . . .	-	-	-	3	3

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

## CATCH BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES . . . . .	7,561	77	-	-	-	-
BLUEFISH . . . . .	515	64	316	38	-	-
BUTTERFISH . . . . .	130	9	-	-	-	-
CARIO . . . . .	12	1	-	-	-	-
CARP . . . . .	224	7	-	-	-	-
CATFISH AND BULLHEADS . . . . .	1,274	127	1,434	212	58	(1)
CROAKER . . . . .	1,867	139	10	1	(1)	(1)
DRUM:						
BLACK . . . . .	53	3	12	1	1	(1)
RED . . . . .	102	9	12	2	-	-
EELS, COMMON . . . . .	53	3	-	-	6	(1)
FLOUNDERS . . . . .	2,450	481	46	12	23	2
GROUPERS . . . . .	1	{1}	(1)	(1)	(1)	(1)
GRUNTS . . . . .	1	{1}	-	-	-	-
HARVESTFISH . . . . .	17	1	-	-	-	-
HICKORY SHAD . . . . .	233	9	2	{1}	1	(1)
KING MACKEREL . . . . .	86	18	(1)	{1}	(1)	(1)
KING WHITING OR "KINGFISH" . . . . .	1,141	96	246	69	91	9
MENHADEN . . . . .	172,992	2,249	-	-	-	-
MULLET . . . . .	1,220	90	680	48	5	1
PIGFISH . . . . .	87	7	-	-	-	-
POMPANO . . . . .	6	2	30	13	-	-
SAND PERCH . . . . .	16	{1}	-	-	-	-
SCUP OR PORGY . . . . .	492	26	15	1	-	-
SEA BASS . . . . .	906	122	234	31	1	(1)
SEA BOUTOUR OR WEAKFISH:						
GRAY . . . . .	1,966	134	7	(1)	-	-
SPOTTED . . . . .	205	72	60	20	2	1
SHAD . . . . .	640	127	120	28	314	100
SHARKS, UNCLASSIFIED . . . . .	14	1	19	2	-	-
SHEEPSHEAD, SALT-WATER . . . . .	10	1	4	(1)	(1)	(1)
SNAPPER:						
RED . . . . .	(1)	(1)	8	3	(1)	(1)
VERMILION . . . . .	-	-	(1)	-	-	-
UNCLASSIFIED . . . . .	-	-	-	-	1	(1)
SPANGLER ISLET . . . . .	2	{1}	-	-	-	-
SPANISH MACKEREL . . . . .	78	12	3	(1)	-	-

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

# SOUTH ATLANTIC FISHERIES

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## CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FISH - CONTINUED						
SPOT . . . . .	1,251	111	3,166	213	3	(1)
STRIPED BASS . . . . .	714	117	-	-	3	1
STURGEON . . . . .	34	7	64	10	2	{1}
SUCKERS . . . . .	-	-	-	-	3	{1}
SWELLFISH . . . . .	282	8	-	-	-	-
SWORDFISH . . . . .	483	233	-	-	-	-
TILEFISH . . . . .	1	(1)	-	-	-	-
TUNA, BLUEFIN . . . . .	33	3	-	-	-	-
WHITE PERCH . . . . .	340	36	-	-	-	-
YELLOW PERCH . . . . .	60	5	-	-	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	11,203	510	10	155	-	3
TOTAL FISH . . . . .	208,757	4,519	6,998	714	671	134
SHELLFISH, ETC.						
CRABS, BLUE:						
HARD . . . . .	24,092	1,275	9,436	375	11,532	472
SOFT AND PEELER . . . . .	70	33	-	-	-	-
TOTAL CRABS . . . . .	24,162	1,308	9,436	375	11,532	472
SHRIMP:						
CLAMS, HARD, PUBLIC . . . . .	4,279	1,503	2,632	861	5,939	2,298
OCTOPUS . . . . .	255	98	146	54	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING . . . . .	249	138	-	-	-	-
FALL . . . . .	401	235	-	-	-	-
PRIVATE:						
SPRING . . . . .	37	20	1,679	672	140	49
FALL . . . . .	41	22	832	325	56	20
TOTAL OYSTERS . . . . .	728	415	2,511	997	196	69
SCALLOPS, BAY . . . . .	340	173	-	-	-	-
SQUID . . . . .	40	4	-	-	-	-
TURTLES, SNAPPER . . . . .	17	3	-	-	-	-
TOTAL SHELLFISH, ETC.	29,822	3,504	14,725	2,267	17,667	2,839
GRAND TOTAL . . . . .	236,579	8,023	21,723	3,001	18,338	2,973

SPECIES	FLORIDA, EAST COAST		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE
FISH				
ALEWIVES . . . . .	2	(1)	7,563	77
AMBERJACK . . . . .	7	(1)	7	(1)
BAKALOID . . . . .	30	4	30	4
BARRACUDA . . . . .	1	(1)	1	(1)
BLUEFISH . . . . .	1,202	111	2,023	213
BLUE RUNNER . . . . .	50	2	50	2
BONITO . . . . .	(1)	(1)	(1)	(1)
BUTTERFISH . . . . .	-	-	130	9
CABIO . . . . .	2	(1)	14	1
CARP . . . . .	-	-	226	7
CATFISH AND BULLHEADS . . . . .	12,069	1,757	14,835	2,113
CREVALLE . . . . .	114	3	114	3
CROAKER . . . . .	101	15	1,978	155
DOLPHIN . . . . .	6	1	6	1
DRUM . . . . .				
BLACK . . . . .	112	9	178	13
RED . . . . .	119	22	233	33
EELS, COMMON . . . . .	122	6	181	9
FLOUNDERS . . . . .	189	31	2,708	526
GROUPERS . . . . .	214	27	2,215	27
GRUNTS . . . . .	24	2	25	2
HARVESTFISH . . . . .	-	-	17	1
HICKORY SHAD . . . . .	2	(1)	236	9
LOGFISH . . . . .	32	2	32	(1)
JOHN DORY . . . . .	2,020	274	2,103	282
KING MACKEREL . . . . .	1,364	120	2,842	284
KING WHITING OR "KINGFISH". . . . .	17,154	187	190,146	2,426
MENHADEN . . . . .	181	13	181	13
MOJARRA . . . . .				

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# SOUTH ATLANTIC FISHERIES

## CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	FLORIDA, EAST COAST		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE
FISH - CONTINUED				
MULLET . . . . .	2,849	137	4,754	276
PERMIT . . . . .	(1)	(1)	(1)	(1)
PIGFOOT . . . . .	5	(1)	92	7
POPMANO . . . . .	140	94	176	109
SAN PERCH . . . . .	-	-	16	(1)
SCUP OR GORGY . . . . .	36	4	543	31
SEA BASS . . . . .	49	6	1,190	159
SEA CATFISH . . . . .	8	1	8	1
SEA TROUT OR WEAKEFISH . . . . .	-	-	-	-
GRAY . . . . .	107	15	2,080	149
SPOTTED . . . . .	764	206	1,031	299
SHAD . . . . .	613	60	1,687	315
SHARKS, UNCLASSIFIED . . . . .	-	-	33	3
SHEEPSHEAD, SALT-WATER . . . . .	96	8	110	9
SMALLFISH . . . . .	-	-	-	-
MANGROVE . . . . .	85	17	85	17
MUTTON . . . . .	65	16	55	16
RED . . . . .	542	194	550	197
VERMILION . . . . .	5	1	5	1
YELLOWTAIL . . . . .	144	38	144	38
UNCLASSIFIED . . . . .	-	-	1	(1)
SPADEFISH . . . . .	-	-	2	(1)
SPANISH MACKEREL . . . . .	2,002	169	2,083	181
SPOT . . . . .	952	126	5,372	450
STRIPED BASS . . . . .	-	-	717	118
STURGEON . . . . .	-	-	100	17
SURFCLIFFISH . . . . .	-	-	3	(1)
SWORDFISH . . . . .	-	-	282	8
TILEFISH . . . . .	-	-	483	233
TRIGGERFISH . . . . .	6	(1)	1	(1)
TRIPELTAIL . . . . .	4	(1)	6	(1)
TUNA, BLUEFIN . . . . .	-	-	4	(1)
WASAW . . . . .	18	2	33	3
WHITE PERCH . . . . .	-	-	340	36
YELLOW PERCH . . . . .	-	-	60	5
UNCLASSIFIED: FOR FOOD . . . . .	263	18	263	18
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	659	14	12,527	139
TOTAL FISH . . . . .	44,529	3,712	260,955	9,079
SHELLFISH, ETC.				
CRABS:				
BLUE:				
HARD . . . . .	6,951	448	52,011	2,570
SOFT AND PEELER . . . . .	2	1	72	34
STONE . . . . .	191	84	191	84
TOTAL CRABS . . . . .	7,144	533	52,274	2,688
LOBSTERS, SPINY . . . . .	786	351	786	351
SHIMP . . . . .	4,491	1,971	17,341	6,633
CLAMS, HARD, PUBLIC . . . . .	1	(1)	402	152
CONCHS . . . . .	(1)	(1)	(1)	(1)
OCTOPUS . . . . .	-	-	1	(1)
OYSTERS, MARKET:				
PUBLIC:				
SPRING . . . . .	20	6	269	144
FALL . . . . .	31	9	432	244
PRIVATE:				
SPRING . . . . .	25	8	1,881	749
FALL . . . . .	16	5	945	372
TOTAL OYSTERS . . . . .	92	28	3,527	1,509
SCALLOPS, BAY . . . . .	-	-	340	173
SQUID . . . . .	4	1	44	5
TURTLES:				
SNAPPER . . . . .	-	-	17	3
SOFT-SHELL . . . . .	310	25	310	25
SPONGES:				
SHEEPSWOOL . . . . .	{1}	1	{1}	{1}
YELLOW . . . . .	{1}	(1)	{1}	(1)
TOTAL SHELLFISH, ETC.	12,628	2,910	75,042	11,540
GRAND TOTAL . . . . .	57,357	6,622	335,997	20,519

1/ LESS THAN 500 POUNDS OR \$500.

NOTE:--STATISTICS ON THE CATCH ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. CLAMS AND OYSTERS ARE REPORTED IN WEIGHT OF TOTAL MEATS. SCALLOPS ARE REPORTED IN WEIGHT OF EDIBLE MEATS.

# SOUTH ATLANTIC FISHERIES

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## CATCH OF CERTAIN SHELLFISH, 1964

(NUMBER AND BUSHELS)

SPECIES	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRABS, BLUE:						
HARD,	NUMBER	72,274,500	\$1,275,164	28,308,300	\$375,761	23,063,800
SOFT AND PEELER :	DO	209,100	32,924	-	-	-
CLAMS, HARD, PUBLIC :	U.S. STD. BUSHEL	29,189	98,217	16,720	53,803	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING. . . . .	DO	53,369	137,816	-	-	-
FALL. . . . .	DO	81,984	234,449	-	-	-
PRIVATE:						
SPRING. . . . .	DO	8,186	20,470	595,496	671,666	36,536
FALL. . . . .	DO	9,073	22,040	293,922	325,303	23,169
SCALLOPS, BAY . . . . .	DO	56,617	172,622	-	-	46,826
						19,710

SPECIES	FLORIDA, EAST COAST		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE
CRABS:				
BLUE:				
HARD,	NUMBER	13,901,600	\$447,623	137,548,200
SOFT AND PEELER :	DO	8,400	717	217,500
STONE . . . . .	DO	191,000	83,870	191,000
CLAMS, HARD, PUBLIC :	U.S. STD. BUSHEL	125	359	46,034
OYSTERS, MARKET:				
PUBLIC:				
SPRING. . . . .	DO	4,545	6,000	57,914
FALL. . . . .	DO	8,556	9,252	90,540
PRIVATE:				
SPRING. . . . .	DO	5,773	7,620	647,991
FALL. . . . .	DO	4,472	4,830	330,636
SCALLOPS, BAY . . . . .	DO	-	-	56,617
				143,816
				243,701
				748,582
				371,883
				172,622

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



## AVERAGE WEIGHTS OF CERTAIN SHELLFISH, 1964

SPECIES	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA		FLORIDA, EAST COAST	
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
CRABS:								
BLUE:								
HARD. . . . .	NUMBER	3.00	3.00	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	8.75	8.75	-	-			8.00
OYSTERS, MARKET:								
PUBLIC:								
SPRING. . . . .	DO	4.66	-	-	-			4.40
FALL. . . . .	DO	4.89	-	-	-			3.60
PRIVATE:								
SPRING. . . . .	DO	4.52	2.62	3.62	3.62			4.40
FALL. . . . .	DO	4.53	2.63	2.43	2.43			3.60
SCALLOPS, BAY . . . . .	DO	6.00	-	-	-			-

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

# SOUTH ATLANTIC FISHERIES

## MANUFACTURED FISHERY PRODUCTS, 1964

ITEM	NORTH CAROLINA		SOUTH CAROLINA	
	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES:				
CANNED:				
FISH . . . . .	STANDARD CASES	(1)	(1)	-
ROE . . . . .	DO	6,550	\$103,700	-
SALTED . . . . .	POUNDS	4,137,500	87,075	-
BLUEFISH FILLETS, FRESH AND FROZEN . . . . .	DO	(1)	(1)	-
FLOUNDERS:				
FILLETS, FRESH OR FROZEN . . . . .	DO	(1)	(1)	-
SPECIALTIES, FROZEN (BREADED AND STUFFED) . . . . .	DO	(1)	(1)	-
MENHADEN:				
MEAT . . . . .	TONS	17,917	2,363,343	-
OIL . . . . .	1,000 POUNDS	11,784	986,108	-
SOLUBLES . . . . .	TONS	7,203	369,950	-
MULLET, SALTED . . . . .	POUNDS	(1)	(1)	-
SCUP OR PORGY FILLETS, FRESH . . . . .	DO	(1)	(1)	-
SEA BASS FILLETS, FRESH . . . . .	DO	(1)	(1)	-
SEA TROUT FILLETS, FRESH AND FROZEN . . . . .	DO	(1)	(1)	-
SPANISH MACKEREL FILLETS, FRESH AND FROZEN . . . . .	DO	(1)	(1)	-
STRIPED BASS FILLETS, FRESH . . . . .	DO	(1)	(1)	-
CRABS:				
BLUE:				
FRESH AND FROZEN:				
COOKED MEAT . . . . .	DO	1,928,781	2,380,061	508,577
SPECIALTIES (AU GRATIN, CAKES, DEVILED, ETC.) . . . . .	DO	(1)	(1)	(1)
CANNED:				
REGULAR (MEAT) . . . . .	STANDARD CASES	(1)	(1)	(1)
SPECIALTIES (DEVILED) . . . . .	DO	-	-	(1)
MEAT AND SCRAP . . . . .	TONS	(1)	(1)	-
SHRIMP, FRESH AND FROZEN:				
RAW, HEADLESS . . . . .	POUNDS	(1)	(1)	(1)
PELLED AND DEVILED:				
RAW . . . . .	DO	-	-	(1)
COOKED . . . . .	DO	-	-	(1)
BREADED, RAW AND COOKED . . . . .	DO	(1)	(1)	(1)
SPECIALTIES (COCKTAILS, CREOLE, STUFFED, ETC.) . . . . .	DO	(1)	(1)	(1)
CLAMS, HARD, SHUCKED, FRESH . . . . .	GALLONS	(1)	(1)	-
OYSTERS:				
SHUCKED, FRESH . . . . .	DO	63,084	423,775	92,274
BROWN, FRESH AND FROZEN . . . . .	POUNDS	(1)	(1)	(1)
CANNED:				
REGULAR . . . . .	STANDARD CASES	-	-	(1)
SPECIALTIES (STEW) . . . . .	DO	-	-	(1)
SCALLOPS:				
BAY, SHUCKED, FRESH . . . . .	GALLONS	(1)	(1)	-
SEA, BREADED, RAW AND COOKED . . . . .	POUNDS	(1)	(1)	-
UNCLASSIFIED:				
FRESH AND FROZEN PACKAGED:				
FILLETS, STEAKS, STICKS, PORTIONS, AND OTHER FISH AND SHELLFISH . . . . .	DO	1,794,585	503,319	38,400
CANNED . . . . .	STANDARD CASES	25,338	369,596	76,237
CURED . . . . .	POUNDS	(2)	(2)	-
INDUSTRIAL . . . . .	-	-	203,203	-
TOTAL . . . . .	-	-	7,825,130	-
				2,574,182

ITEM	GEORGIA		FLORIDA, EAST COAST	
	QUANTITY	VALUE	QUANTITY	VALUE
BLUEFISH FILLETS, FRESH AND FROZEN . . . . .	POUNDS	-	-	(1) (1)
BUTTERFISH, SMOKED . . . . .	DO	-	-	(1) (1)
CHUB, SMOKED . . . . .	DO	-	-	(1) (1)
FLUNDER FILLETS, FRESH AND FROZEN . . . . .	DO	-	-	(1) (1)
GROUPER FILLETS, FRESH AND FROZEN . . . . .	DO	-	-	114,748 \$48,599
KING MACKEREL:				
STEAKS, FROZEN . . . . .	DO	-	-	92,000 34,670
CANNED SPECIALTIES (FISH PASTE) . . . . .	STANDARD CASES	-	-	(1) (1)
SMOKED . . . . .	POUNDS	-	-	(1) (1)
MENHADEN:				
MEAT . . . . .	TONS	-	-	(1) (1)
OIL . . . . .	1,000 POUNDS	-	-	(1) (1)
SOLUBLES . . . . .	TONS	-	-	(1) (1)

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# SOUTH ATLANTIC FISHERIES

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## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		GEORGIA		FLORIDA, EAST COAST	
		QUANTITY	VALUE	QUANTITY	VALUE
POMPOON FILLETS, FROZEN . . . . .	POUNDS	-	-	{1}	{1}
SABLEFISH, SMOKED . . . . .	DO	-	-	{1}	{1}
SMALMON, SMOKED . . . . .	DO	-	-	{1}	{1}
SEA TROUT FILLETS, FRESH AND FROZEN . . . . .	DO	-	-	{1}	{1}
SNAPPER, RED FILLETS, FROZEN . . . . .	DO	-	-	223,859	\$151,943
SPANISH MACKEREL FILLETS, FRESH AND FROZEN . . . . .	DO	-	-	128,000	47,530
STURGEON, SMOKED . . . . .	DO	-	-	{1}	{1}
WHITEFISH, SMOKED . . . . .	DO	-	-	{1}	{1}
CRABS:					
BLUE:					
FRESH AND FROZEN:					
COOKED MEAT . . . . .	DO	1,438,120	\$1,452,792	1,121,079	1,489,999
SPECIALTIES (AU GRATIN, CAKES, DEVILED, ETC.) . . . . .	DO	{1}	{1}	490,901	338,627
MEAL AND SCRAP . . . . .	TONS	{1}	{1}	{1}	{1}
BACKS, CLEANED AND POLISHED . . . . .	-	-	-	{1}	{1}
STONE, CLAWS, COOKED FROZEN . . . . .	POUNDS	-	-	{1}	{1}
LOBSTERS, WHOLE, FROZEN:					
WHITE, COOKED . . . . .	DO	-	-	831,840	601,958
TAILS, RAW . . . . .	DO	-	-	432,268	788,946
SHRIMP, FRESH AND FROZEN:					
RAW, HEADLESS . . . . .	DO	923,696	701,165	5,713,007	5,876,805
PEELED AND DEVEINED, RAW . . . . .	DO	4,090,180	4,964,440	147,268	174,120
BREADED, RAW AND COOKED . . . . .	DO	15,429,933	9,460,528	11,136,399	8,609,847
SPECIALTIES (COCKTAILS, CREOLE, STUFFED, ETC.) . . . . .	DO	1,232,797	927,277	{1}	{1}
CLAMS, HARD, SMOKED, FRESH . . . . .	GALLONS	-	-	{1}	{1}
OYSTERS . . . . .					
SHUCKED, FRESH . . . . .	DO	21,448	129,613	7,734	42,768
BREADED, FRESH AND FROZEN . . . . .	POUNDS	{1}	{1}	705,815	765,085
SHELL GRIT AND LIME . . . . .	TONS	-	-	{1}	{1}
SCALLOPS, SEA, BREADED, RAW AND COOKED . . . . .	POUNDS	812,708	461,465	{1}	{1}
TURTLE STEAKS, FROZEN . . . . .	DO	-	-	{1}	{1}
UNCLASSIFIED:					
FRESH AND FROZEN PACKAGED: FILLETS, STEAKS, STICKS, PORTIONS, AND OTHER FISH AND SHELLFISH . . . . .	DO	7,294,071	2,942,336	1,091,908	679,876
CANNED . . . . .	STANDARD CASES	-	-	{2}	{2}
CURED . . . . .	POUNDS	-	-	630,760	763,987
INDUSTRIAL . . . . .	-	-	-	-	646,366
TOTAL . . . . .	-	-	21,039,616	-	21,061,126

1/ INCLUDED IN UNCLASSIFIED ITEMS. 2/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH.

NOTE: SOME 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, 1964

(VALUE IN THOUSANDS OF DOLLARS)

ITEM	QUANTITY	VALUE
PACKAGED, FRESH AND FROZEN:		
NOT BREADED:		
FISH, SHELLFISH . . . . .	1,000 POUNDS	2,034
DO		19,428
BREADED:		
FISH, SHELLFISH . . . . .	DO	6,856
DO		28,790
SPECIALTIES, FISH AND SHELLFISH (NOT BREADED AND BREADED) . . . . .	DO	2,131
CANNED . . . . .	1,000 STANDARD CASES	111
CURED . . . . .	1,000 POUNDS	4,943
INDUSTRIAL . . . . .	-	-
TOTAL . . . . .	-	52,500

# SOUTH ATLANTIC FISHERIES

## VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964

(THOUSANDS OF DOLLARS)

STATE	VALUE
NORTH CAROLINA . . . . .	7,825
SOUTH CAROLINA . . . . .	2,574
GEORGIA . . . . .	21,040
FLORIDA, EAST COAST . . . . .	21,061
TOTAL . . . . .	52,500

## WHOLESALING AND MANUFACTURING, 1964

ITEM	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA, EAST COAST	TOTAL
NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHALESALING AND MANUFACTURING:					
ESTABLISHMENTS . . . . .	161	71	54	137	423
PERSONS ENGAGED:					
AVERAGE FOR SEASON . . . . .	2,582	987	2,775	1,804	8,148
AVERAGE FOR YEAR . . . . .	1,242	561	2,034	1,550	5,367



SHUCKING OYSTERS

## SOUTH ATLANTIC FISHERIES

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## NORTH CAROLINA

## OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES		PURSE SEINES, MENHADEN	BAG NETS	OTTER TRAWLS			
	COMMON	LONG			CRAB	FISH	SHRIMP	
FISHERMEN:								
ON VESSELS . . . . .	-	57	1,014	-	96	200	814	
ON BOATS AND SHORE:								
REGULAR . . . . .	80	134	-	-	219	40	543	
CASUAL . . . . .	219	-	-	33	43	-	4	
TOTAL . . . . .	299	191	1,014	33	358	240	1,361	
VESSELS, MOTOR . . . . .	-	19	60	-	48	76	371	
GROSS TONNAGE . . . . .	-	158	13,694	-	531	2,973	7,832	
BOATS:								
MOTOR . . . . .	29	50	118	33	201	20	349	
OTHER . . . . .	39	65	59	-	-	-	-	
GEAR:								
NUMBER . . . . .	49	35	60	33	251	96	840	
LENGTH, YARDS . . . . .	13,655	48,950	24,120	-	-	-	-	
YARDS AT MOUTH . . . . .	-	-	-	825	3,642	2,364	14,111	
ITEM	POUND NETS, FISH	FYKE AND HOOP NETS, FISH		POTS AND TRAPS			GILL NETS	
				CRAB	EEL	FISH	ANCHOR, SET OR STAKE	
FISHERMEN:								
ON VESSELS . . . . .	-	-	-	-	-	63	-	
ON BOATS AND SHORE:								
REGULAR . . . . .	99	4	431	-	-	63	358	
CASUAL . . . . .	76	6	62	25	72	9	300	
TOTAL . . . . .	175	10	513	25	198	9	678	
VESSELS, MOTOR . . . . .	-	-	-	-	-	31	-	
GROSS TONNAGE . . . . .	-	-	-	-	-	453	-	
BOATS:								
MOTOR . . . . .	73	6	438	25	86	9	439	
OTHER . . . . .	-	-	-	-	48	-	88	
GEAR:								
NUMBER . . . . .	604	80	28,500	550	4,846	80	2,382	
SQUARE YARDS . . . . .	-	-	-	-	-	-	742,480	
ITEM	GILL NETS - CONTINUED			LINES			DIP NETS, COMMON	
	DRIFT		RUNA- ROUND	HAND 1/4	LONG OR SET WITH HOOKS	TROT WITH BAITS		
	SHAD	OTHER						
FISHERMEN:								
ON VESSELS . . . . .	-	-	-	14	145	-	-	
ON BOATS AND SHORE:								
REGULAR . . . . .	-	-	221	-	-	249	-	
CASUAL . . . . .	152	76	57	21	8	80	100	
TOTAL . . . . .	152	76	278	35	153	329	100	
VESSELS, MOTOR . . . . .	-	-	-	6	29	-	-	
GROSS TONNAGE . . . . .	-	-	-	201	1,533	-	-	
BOATS:								
MOTOR . . . . .	86	20	147	14	8	322	100	
OTHER . . . . .	66	56	18	-	-	5	-	
GEAR:								
NUMBER . . . . .	152	76	158	324	37	327	100	
SQUARE YARDS . . . . .	38,400	30,480	135,860	-	347	22,016	507,000	
HOOKS OR BAITS . . . . .	-	-	-	-	-	-	-	
ITEM	SPEARS	DREDGES			TONGS, OYSTER	RAKES	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
		CLAM	OYSTER COMMON	SCALLOP				
FISHERMEN:								
ON VESSELS . . . . .	-	-	18	-	-	-	-	2,027
ON BOATS AND SHORE:								
REGULAR . . . . .	-	31	286	40	20	-	-	2,346
CASUAL . . . . .	117	-	12	-	81	218	175	1,179
TOTAL . . . . .	117	31	316	40	101	216	255	5,551
VESSELS, MOTOR . . . . .	-	-	9	-	-	-	-	481
GROSS TONNAGE . . . . .	-	-	76	-	-	-	-	22,931
BOATS:								
MOTOR . . . . .	-	21	155	40	57	65	105	2,194
OTHER . . . . .	117	-	-	-	44	133	150	601
GEAR:								
NUMBER . . . . .	117	21	164	80	101	218	-	-
YARDS AT MOUTH . . . . .	-	28	220	80	-	-	-	-

1/ APPROXIMATELY 200 LINES WERE FISHED FROM RIVER BANKS FOR SNAPPER TURTLES.

# SOUTH ATLANTIC FISHERIES

## NORTH CAROLINA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES				PURSE SEINES		BAG NETS	
	COMMON		LONG					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	532,000	\$5,320	-	-	-	-	-	-
BUTTERFISH . . . . .	216,500	24,145	144,500	\$20,019	-	-	-	-
CABIO, . . . . .	6,700	465	34,000	2,576	-	-	-	-
CARP . . . . .	500	30	10,300	618	-	-	-	-
CATFISH AND BULLHEADS. . . . .	73,500	2,238	-	-	-	-	-	-
CROAKER, DRUM, . . . . .	49,000	4,900	-	-	-	-	-	-
BLACK, RED, . . . . .	17,000	1,530	2,600	156	-	-	-	-
FLOUNDERS, . . . . .	25,500	5,132	84,400	7,483	-	-	-	-
HARVESTFISH, . . . . .	-	-	161,200	34,022	-	-	-	-
HICKORYSHAD, . . . . .	2,000	80	13,500	1,088	-	-	-	-
KING MACKEREL, . . . . .	2,500	500	6,400	1,280	-	-	-	-
KING WHITING OR "KINGFISH", . . . . .	51,200	4,544	82,800	7,590	-	-	-	-
MENHADEN . . . . .	-	-	27,600	359	172,947,600	\$2,248,319	-	-
MULLET . . . . .	777,900	51,192	-	-	-	-	-	-
PIGFISH, . . . . .	6,500	704	29,500	2,360	-	-	-	-
POMPANO, . . . . .	4,000	1,000	2,300	575	-	-	-	-
SEA TROUT OR WEAKEFISH: . . . . .	-	-	-	-	-	-	-	-
GRAY . . . . .	36,000	2,695	97,300	7,620	-	-	-	-
SPOTTED, . . . . .	80,400	28,140	62,700	21,945	-	-	-	-
SHAD, . . . . .	21,700	4,340	-	-	-	-	-	-
SHARKS, UNCLASSIFIED . . . . .	-	-	3,500	350	-	-	-	-
SHEEPSHEAD, SALT-WATER . . . . .	500	48	2,800	224	-	-	-	-
SPADEFISH, . . . . .	-	-	2,100	166	-	-	-	-
SPANISH MACKEREL . . . . .	15,000	2,250	33,600	5,040	-	-	-	-
SPOT . . . . .	443,800	33,305	528,500	52,678	-	-	-	-
STRIPEPED BASS . . . . .	131,600	21,581	-	-	-	-	-	-
STURGEON . . . . .	2,000	400	4,900	980	-	-	-	-
WHITE PERCH, . . . . .	19,100	2,071	-	-	-	-	-	-
YELLOW PERCH . . . . .	5,100	459	-	-	-	-	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD, . . . . .	-	-	75,000	750	-	-	-	-
SHRIMP . . . . .	-	-	-	-	-	-	210,000	\$64,500
TURTLES, SNAPPER . . . . .	800	144	-	-	-	-	-	-
TOTAL. . . . .	2,576,100	201,294	1,719,000	192,731	172,947,600	2,248,319	210,000	64,500

SPECIES	OTTER TRAWLS					
	CRAB		FISH		SHRIMP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH . . . . .	-	-	2,500	\$275	-	-
BUTTERFISH . . . . .	-	-	60,900	4,277	-	-
CROAKER, . . . . .	-	-	1,284,600	92,834	54,000	\$3,780
DRUM, BLACK, . . . . .	-	-	49,800	2,988	100	6
FLOUNDERS, . . . . .	-	-	1,861,000	368,700	217,400	34,110
KING WHITING OR "KINGFISH", . . . . .	-	-	729,500	59,155	120,400	9,865
PIGFISH, . . . . .	-	-	34,200	2,831	8,000	640
SAN PERCH . . . . .	-	-	16,100	497	300	9
SCUP OR PORGY, . . . . .	-	-	476,300	25,151	-	-
SEA BASS . . . . .	-	-	613,400	77,902	-	-
SEA TROUT OR WEAKEFISH, GRAY, . . . . .	-	-	1,559,000	102,877	61,700	3,719
SHARKS, UNCLASSIFIED . . . . .	-	-	10,400	1,640	-	-
SHEEPSHEAD, SALT-WATER . . . . .	-	-	3,000	240	-	-
SPOT . . . . .	-	-	92,400	6,692	20,000	1,400
STURGEON . . . . .	-	-	1,400	280	-	-
SWELLFISH, . . . . .	-	-	260,900	7,827	17,700	531
TILEFISH . . . . .	-	-	100	8	600	48
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD, . . . . .	-	-	5,563,900	55,639	5,564,000	55,640
CRABS, BLUE; HARD . . . . .	4,700,000	\$201,500	-	-	1,350,000	59,500
SHRIMP AND PEELER, . . . . .	63,600	30,057	-	-	4,069,000	1,438,739
OCTOPUS, . . . . .	-	-	-	-	1,000	150
SQUID, . . . . .	-	-	37,400	3,550	3,100	310
TOTAL. . . . .	4,763,600	231,557	12,658,600	812,983	11,487,300	1,608,447

(CONTINUED ON NEXT PAGE)

# SOUTH ATLANTIC FISHERIES

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## NORTH CAROLINA - CATCH BY GEAR, 1964 - Continued

SPECIES	POUND NETS		FYKE AND HOOP NETS		POTS AND TRAPS			
					CRAB		EEL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	5,883,300	\$60,104	-	-	-	-	-	-
BLUEFISH . . . . .	3,300	429	-	-	-	-	-	-
BUTTERFISH . . . . .	28,000	2,040	-	-	-	-	-	-
CABIO . . . . .	1,200	72	-	-	-	-	-	-
CARP . . . . .	60,600	1,818	63,900	\$1,917	-	-	-	-
CATFISH AND BULLHEADS . . . . .	203,000	20,300	32,800	3,280	-	-	-	-
CROAKER . . . . .	85,000	6,900	-	-	-	-	-	-
DRUM, BLACK . . . . .	200	12	-	-	-	-	-	-
EELS, COMMON . . . . .	4,500	225	-	-	-	-	47,900	\$2,395
FLOUNDERS . . . . .	51,000	11,540	-	-	-	-	-	-
HEAVYWEIGHT FISH . . . . .	3,500	250	-	-	-	-	-	-
HICKORY SHAD . . . . .	100,100	3,741	-	-	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY . . . . .	44,100	3,068	-	-	-	-	-	-
SHAD . . . . .	274,500	54,392	-	-	-	-	-	-
SPANISH MACKEREL . . . . .	8,500	1,275	-	-	-	-	-	-
SPOT . . . . .	10,000	800	-	-	-	-	-	-
STRIPED BASS . . . . .	154,400	24,876	-	-	-	-	-	-
SURGEON . . . . .	6,200	1,240	-	-	-	-	-	-
WHITE PERCH . . . . .	174,700	16,717	-	-	-	-	-	-
YELLOW PERCH . . . . .	15,500	1,395	34,800	3,132	-	-	-	-
CRABS, BLUE, HARD . . . . .	-	-	-	-	13,295,500	\$756,809	-	-
TOTAL . . . . .	7,117,700	213,246	131,500	8,329	13,295,500	756,809	47,900	2,395

SPECIES	POTS AND TRAPS - CONTINUED				GILL NETS	
	FISH		TURTLE		ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	-	-	-	-	1,069,100	\$10,691
BLUEFISH . . . . .	-	-	-	-	63,400	8,239
CARP . . . . .	25,900	\$777	-	-	-	-
CATFISH AND BULLHEADS . . . . .	880,300	88,030	-	-	6,500	650
CROAKER . . . . .	-	-	-	-	36,000	3,080
DRUM, RED . . . . .	-	-	-	-	100	9
EELS, COMMON . . . . .	600	30	-	-	-	-
FLOUNDERS . . . . .	-	-	-	-	8,000	1,600
GOLDFISH . . . . .	1,200	113	-	-	-	-
HICKORY SHAD . . . . .	-	-	-	-	126,500	4,584
KING WHITING OR "KINGFISH" . . . . .	-	-	-	-	101,300	9,305
MENHADEN . . . . .	-	-	-	-	16,500	214
MULLET . . . . .	-	-	-	-	229,000	20,542
PIGFISH . . . . .	1,100	88	-	-	-	-
SCUP OR PORGY . . . . .	5,300	530	-	-	-	-
SEA BASS . . . . .	240,100	36,070	-	-	-	-
SEA TROUT OR WEAKFISH; GRAY . . . . .	-	-	-	-	68,600	5,296
SPOTTED . . . . .	-	-	-	-	15,300	5,355
SHAD . . . . .	-	-	-	-	324,100	64,820
SPANISH MACKEREL . . . . .	-	-	-	-	3,700	555
STRIPE BASS . . . . .	-	-	-	-	62,000	8,200
SURGEON . . . . .	-	-	-	-	422,400	69,311
SWELLFISH . . . . .	-	-	-	-	600	120
WHITE PERCH . . . . .	-	-	-	-	3,000	.90
YELLOW PERCH . . . . .	-	-	-	-	141,500	15,038
TURTLES, SNAPPER . . . . .	-	-	9,500	\$1,710	4,500	406
TOTAL . . . . .	1,154,500	125,638	9,500	1,710	2,722,100	228,105

SPECIES	GILL NETS - CONTINUED					
	SHAD		OTHER		RUNAROUND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	-	-	76,500	\$765	-	-
BLUEFISH . . . . .	-	-	1,400	140	79,500	\$10,565
CATFISH AND BULLHEADS . . . . .	-	-	4,300	172	42,900	3,540
CROAKER . . . . .	-	-	-	-	-	-
HICKORY SHAD . . . . .	-	-	-	-	12,000	2,400
KING MACKEREL . . . . .	-	-	-	-	56,100	5,210
KING WHITING OR "KINGFISH" . . . . .	-	-	3,000	300	210,000	18,094
MULLET . . . . .	-	-	-	-	5,000	400
PIGFISH . . . . .	-	-	-	-	-	-

(CONTINUED ON NEXT PAGE)

## SOUTH ATLANTIC FISHERIES

## NORTH CAROLINA - CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS - CONTINUED						
	SHAD		DRIFT		RUNAROUND		
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	
SEA TROUT OR WEAKFISH:							
GRAY . . . . .	-	-	-	-	99,200	\$8,220	
SPOTTED . . . . .	-	-	500	\$175	45,900	16,065	
SHAD . . . . .	15,500	\$3,100	600	120	3,500	700	
SPANISH MACKEREL . . . . .	-	-	-	-	7,500	1,125	
SPOT . . . . .	-	-	-	-	74,500	7,316	
STRIPED BASS . . . . .	500	80	1,200	192	4,400	704	
STURGEON . . . . .	500	100	-	-	18,200	3,640	
WHITE PERCH . . . . .	-	-	3,000	316	1,400	154	
YELLOW PERCH . . . . .	-	-	500	45	-	-	
TOTAL. . . . .	16,500	3,260	91,000	2,225	660,100	78,153	
SPECIES	LINES						
	HAND		LONG OR SET WITH HOOKS		TROT WITH BAITS		
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	
BLUEFISH . . . . .	5,000	\$700	-	-	-	-	
CATFISH AND BULLHEADS . . . . .	-	-	101,200	\$10,120	-	-	
DRAULIC, BLACK . . . . .	700	42	-	-	-	-	
GROUPERS . . . . .	1,400	112	-	-	-	-	
KING MACKEREL . . . . .	67,600	13,520	-	-	-	-	
SCUP OR PORGY . . . . .	7,900	571	-	-	-	-	
SEA BASS . . . . .	52,700	7,855	-	-	-	-	
SHEEPSHEAD, SALT-WATER . . . . .	4,000	320	-	-	-	-	
SNAPPER, RED . . . . .	500	150	-	-	-	-	
SPANISH MACKEREL . . . . .	10,000	1,500	-	-	-	-	
SWORDFISH . . . . .	-	-	482,800	232,790	-	-	
TUNA, BLUEFIN . . . . .	-	-	33,100	2,895	-	-	
CRABS, BLUE:							
HARD . . . . .	-	-	-	-	4,745,000	\$257,355	
SOFT AND FEELER . . . . .	-	-	-	-	-	-	
SCALLOPS, BAY . . . . .	-	-	-	-	-	6,100	
TURTLES, SNAPPER . . . . .	6,600	1,188	-	-	63,300	42,483	
TOTAL. . . . .	156,400	25,958	617,100	245,805	4,745,000	257,355	
SPECIES	DREDGES						
	SPEARS		CLAM		OYSTER		
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	
FLOUNDERS . . . . .	120,300	\$25,732	-	-	\$1,200	-	
CLAMS, HARD, PUBLIC . . . . .	-	-	40,000	\$15,400	3,000	-	
OYSTERS, MARKET, PUBLIC:							
SPRING . . . . .	-	-	-	-	77,000	52,360	
FALL . . . . .	-	-	-	-	189,800	129,064	
SCALLOPS, BAY . . . . .	-	-	-	-	-	230,000	
TOTAL. . . . .	120,300	25,732	40,000	15,400	269,800	182,624	
					230,000	\$116,675	
SPECIES	TONGS			RAKES		BY HAND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	
			212,400	\$81,617	-	-	
CLAMS, HARD, PUBLIC . . . . .	-	-	-	-	-	-	
OYSTERS, MARKET:							
PUBLIC:							
SPRING . . . . .	58,000	\$33,478	-	-	113,700	\$51,978	
FALL . . . . .	63,500	37,295	-	-	147,600	68,090	
PRIVATE:							
SPRING . . . . .	22,500	12,725	-	-	14,500	7,745	
FALL . . . . .	16,700	10,585	-	-	22,400	11,455	
SCALLOPS, BAY . . . . .	-	-	26,400	13,454	-	-	
TOTAL. . . . .	162,700	94,063	236,800	95,081	298,200	139,268	

## SOUTH ATLANTIC FISHERIES

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## SOUTH CAROLINA

## OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS		POTS AND TRAPS	
		CRAB	SHRIMP	CRAB	
	NUMBER	NUMBER	NUMBER	NUMBER	
FISHERMEN:					
ON VESSELS . . . . .	-	24	377	-	
ON BOATS AND SHORE; REGULAR . . . . .	-	14	126	181	
CASUAL . . . . .	250	-	-	-	
TOTAL . . . . .	250	38	503	181	
VESSELS, MOTOR . . . . .	-	12	183	-	
GROSS TONNAGE . . . . .	-	317	4,677	-	
BOATS:					
MOTOR . . . . .	-	7	63	171	
OTHER . . . . .	10	-	-	-	
GEAR:					
NUMBER . . . . .	10	19	377	11,795	
LENGTH, YARDS . . . . .	2,500	-	-	-	
YARDS AT MOUTH . . . . .	-	375	7,319	-	
	POTS AND TRAPS-CONTINUED	GILL NETS			
ITEM	FISH	ANCHOR, SET OR STAKE	DRIFT		
			SHAD	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER	
FISHERMEN:					
ON VESSELS . . . . .	26	-	-	-	
ON BOATS AND SHORE; REGULAR . . . . .	53	-	17	-	
CASUAL . . . . .	-	35	60	24	
TOTAL . . . . .	81	35	77	24	
VESSELS, MOTOR . . . . .	11	-	-	-	
GROSS TONNAGE . . . . .	309	-	-	-	
BOATS, MOTOR . . . . .	49	25	77	24	
GEAR:					
NUMBER . . . . .	2,679	25	77	24	
SQUARE YARDS . . . . .	-	18,750	26,000	2,740	
	LINES		CAST NETS	SPRAYS	
ITEM	HAND	TROT WITH BAITS			
	NUMBER	NUMBER	NUMBER	NUMBER	
FISHERMEN, ON BOATS AND SHORE:					
REGULAR . . . . .	4	40	-	-	
CASUAL . . . . .	6	-	8	5	
TOTAL . . . . .	10	40	8	5	
BOATS, MOTOR . . . . .	5	40	8	5	
GEAR:					
NUMBER . . . . .	10	48	8	5	
HOOKS OR BAITS . . . . .	20	33,500	-	-	
	TONGS, OYSTER	RAKES, CLAM	BY HAND		
ITEM	NUMBER	NUMBER	OYSTER	OTHER	TOTAL, EXCLUSIVE OF DUPLICATION
			NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS . . . . .	-	-	-	-	366
ON BOATS AND SHORE:					
REGULAR . . . . .	213	-	103	4	724
CASUAL . . . . .	25	46	20	-	418
TOTAL . . . . .	238	46	123	4	1,528
VESSELS, MOTOR . . . . .	-	-	-	-	185
GROSS TONNAGE . . . . .	-	-	-	-	4,731
BOATS:					
MOTOR . . . . .	238	46	123	2	814
OTHER . . . . .	-	-	-	-	10
GEAR, NUMBER . . . . .	238	46	-	-	-

## SOUTH ATLANTIC FISHERIES

## SOUTH CAROLINA - CATCH BY GEAR, 1964

SPECIES	HAUL, SEINES, COMMON		OTTER TRAWLS				
			CRAB		SHRIMP		
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	
BLUEFISH . . . . .	316,100	\$38,027	-	-	300	\$30	
CROAKER. . . . .	10,000	500	-	-	400	21	
DRUM:							
BLACK. . . . .	11,600	1,210	-	-	800	114	
RED. . . . .	10,200	1,436	-	-	200	16	
FLOUNDERS. . . . .	-	-	-	-	22,000	5,451	
KING MACKEREL. . . . .	-	200	26	-	52,300	5,214	
KING WHITING OR "KINGFISH". . . . .	193,700	63,458	-	-	-	-	
MULLET. . . . .	650,100	47,704	-	-	1,300	496	
POMPANO. . . . .	-	28,200	12,626	-	14,400	624	
SCUP OR PORGY. . . . .	-	-	-	-	300	46	
SEA BASS. . . . .	-	-	-	-	-	-	
SEA TROUT OR WEAKFISH:							
GRAY. . . . .	-	-	-	-	6,800	286	
SPOTTED. . . . .	33,000	13,765	-	-	4,800	1,175	
SHARKS, UNCLASSIFIED. . . . .	5,000	504	-	-	13,700	1,349	
SHEEPSHEAD, SALT-WATER. . . . .	3,500	175	-	-	200	7	
SPANISH MACKEREL. . . . .	-	1,800	306	-	700	86	
SPOTTED. . . . .	3,116,500	209,779	-	-	24,500	1,163	
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD.	510,100	10,201	-	-	-	-	
CRABS, BLUE, HARD. . . . .	-	-	653,100	\$20,874	-	-	
SHRIMP . . . . .	-	-	-	-	2,596,900	853,379	
TOTAL. . . . .	4,920,200	399,717	653,100	20,874	2,739,600	869,457	
SPECIES	POTS AND TRAPS				GILL NETS		
	CRAB		FISH		ANCHOR, SET OR STAKE		DRIFT
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS
CATFISH AND BULLHEADS. . . . .	-	-	1,434,100	\$211,703	-	-	-
HICKORY SHAD. . . . .	-	-	-	-	-	-	2,000
SEA BASS. . . . .	-	-	224,700	29,895	-	-	-\$59
SHAD. . . . .	-	-	-	-	27,500	\$6,149	92,600
SPOTTED. . . . .	-	-	-	-	25,000	2,250	21,344
STURGEON. . . . .	-	-	-	-	64,200	9,635	-
CRABS, BLUE, HARD. . . . .	4,352,700	\$171,494	-	-	-	-	-
TOTAL. . . . .	4,352,700	171,494	1,658,800	241,598	116,700	18,034	94,600
SPECIES	LINES				CAST NETS		SPEARS
	HAND		TROT WITH BAITS				
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS
DRUM, RED. . . . .	500	\$72	-	-	-	-	-
FLOUNDERS. . . . .	-	-	-	-	-	-	24,300
GROUPERS. . . . .	200	24	-	-	-	-	-\$6,030
SCUP OR PORGY. . . . .	500	20	-	-	-	-	-
SEA BASS. . . . .	8,600	1,411	-	-	-	-	-
SEA TROUT OR WEAKFISH,							
SPOTTED. . . . .	-	-	-	-	-	-	21,800
SNAPPER:							
RED. . . . .	8,200	3,299	-	-	-	-	-
VERMILION. . . . .	300	24	-	-	-	-	-
CRABS, BLUE, HARD. . . . .	-	-	4,430,300	\$183,393	-	-	-
SHRIMP . . . . .	-	-	-	-	35,100	\$7,541	-
TOTAL. . . . .	18,500	4,850	4,430,300	183,393	35,100	7,541	46,100
SPECIES	TONGS		RAKES		BY HAND		
					OYSTER		OTHER
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS
CLAMS, HARD, PUBLIC. . . . .	-	-	137,700	\$50,198	-	-	8,600
OYSTERS, MARKET, PRIVATE; SPRING. . . . .	1,501,200	\$595,080	-	-	178,100	\$76,586	-\$3,605
FALL. . . . .	743,500	268,671	-	-	88,300	36,632	-
TOTAL. . . . .	2,244,700	883,751	137,700	50,198	266,400	113,218	8,600

## SOUTH ATLANTIC FISHERIES

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## GEORGIA

## OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS		POTS AND TRAPS
		CRAB	SHRIMP	CRAB
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS . . . . .	-	96	667	-
ON BOATS AND SHORE; . . . . .	-	134	192	157
REGULAR . . . . .	-	9	255	2
CASUAL . . . . .	8			
TOTAL . . . . .	8	233	1,104	159
VESSELS, MOTOR . . . . .	-	48	333	-
GROSS TONNAGE . . . . .	-	1,390	10,343	-
BOATS, MOTOR . . . . .	4	76	213	151
GEAR . . . . .				
NUMBER . . . . .	4	164	819	9,635
LENGTH, YARDS . . . . .	625			-
YARDS AT MOUTH . . . . .		2,584	11,048	-
POTS AND TRAPS- CONTINUED		GILL NETS		LINES
ITEM	FISH	ANCHOR, SET OR STAKE	DRIFT, SHAD	HAND
FISHERMEN, ON BOATS AND SHORE; . . . . .	NUMBER	NUMBER	NUMBER	NUMBER
REGULAR . . . . .	15	-	123	-
CASUAL . . . . .	53	54	248	27
TOTAL . . . . .	68	54	371	27
BOATS; . . . . .				
MOTOR . . . . .	57	44	217	13
OTHER . . . . .	-	-	10	-
GEAR . . . . .				
NUMBER . . . . .	446	53	253	26
SQUARE YARDS . . . . .		9,577	128,430	-
HOOKS OR BAITS . . . . .	-	-	-	52
LINES - CONTINUED				
ITEM	TROLL, OTHER	LONG OR SET WITH HOOKS	TROT WITH BAITS	DIP NETS, DROP
FISHERMEN, ON BOATS AND SHORE; . . . . .	NUMBER	NUMBER	NUMBER	NUMBER
REGULAR . . . . .	-	23	2	12
CASUAL . . . . .	8	60	-	20
TOTAL . . . . .	8	83	2	32
BOATS, MOTOR . . . . .				
GEAR . . . . .				
NUMBER . . . . .	5	73	2	25
HOOKS OR BAITS . . . . .	16	401	2	1,875
	16	20,050	1,300	-
ITEM	CAST NETS	GRABS	BY HAND	TOTAL, EX- CLUSIVE OF DUPLICATION
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS . . . . .	-	-	-	667
ON BOATS AND SHORE; . . . . .	-	26	37	480
REGULAR . . . . .	-	-	22	593
CASUAL . . . . .	7	-	-	
TOTAL . . . . .	7	26	59	1,740
VESSELS, MOTOR . . . . .	-	-	-	333
GROSS TONNAGE . . . . .	-	-	-	10,343
BOATS; . . . . .				
MOTOR . . . . .	5	26	34	611
OTHER . . . . .	-	20	26	56
GEAR, NUMBER . . . . .	7	26	-	-

## SOUTH ATLANTIC FISHERIES

**GEORGIA - CATCH BY GEAR, 1964**

SPECIES	HAUL SEINES, COMMON		OTTER TRAWLS			
	POUNDS	VALUE	CRAB		SHRIMP	
			POUNDS	VALUE	POUNDS	VALUE
CROAKER . . . . .	-	-	-	-	400	\$48
DRUM, BLACK . . . . .	-	-	-	-	100	10
FLOUNDERS . . . . .	300	\$34	-	-	23,000	2,305
KING MACKEREL . . . . .	-	-	-	-	100	10
KING WHITING OR "KINGFISH". . . . .	-	-	-	-	91,400	9,153
MULLET, BLACK . . . . .	3,700	362	-	-	-	-
SEA BASS . . . . .	-	-	-	-	800	139
SEA TROUT OR WEAKFISH, . . . . .	-	-	-	-	-	-
SPOTTED. . . . .	900	259	-	-	100	32
SHEEPSHEAD. . . . .	100	9	-	-	-	-
SNAPPER, RED. . . . .	-	-	-	-	100	30
SPOTTED BASS. . . . .	-	-	-	-	2,500	299
STRIPED BASS. . . . .	2,500	427	-	-	100	9
UNCLASSIFIED, FOR BAIT, RE- DUCTION, AND ANIMAL FOOD . . . . .	-	-	-	-	-	-
CRABS, BLUE, HARD . . . . .	-	-	6,373,800	\$248,915	2,110,700	75,899
SHRIMP. . . . .	-	-	-	-	5,938,500	2,298,056
TOTAL . . . . .	7,500	1,091	6,373,800	248,915	8,322,600	2,368,666

SPECIES	POTS AND TRAPS				GILL NETS			
	CRAB		FISH		ANCHOR, SET OR STAKE		DRIFT, SHAD	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CARP . . . . .	-	-	-	-	-	-	2,200	\$113
CATFISH AND BULLHEADS . . . . .	-	-	41,400	\$12,193	-	-	-	-
ELS., COMMON . . . . .	-	-	5,500	366	-	-	-	-
HICKORY SHAD . . . . .	-	-	-	-	-	-	1,000	207
SEA BASS . . . . .	-	-	100	26	-	-	-	-
SHAD . . . . .	-	-	-	-	8,700	\$2,784	305,300	96,984
STRIPED BASS . . . . .	-	-	-	-	-	-	500	73
STURGEON, COMMON . . . . .	-	-	-	-	-	-	1,900	337
SUCKERS . . . . .	-	-	2,900	263	-	-	-	-
CRABS, BLUE, HARD . . . . .	2,859,400	\$138,266	-	-	-	-	-	-
TOTAL . . . . .	2,859,400	138,266	49,900	12,868	8,700	2,784	310,900	97,714

SPECIES	LINES							
	HAND		TROLL		LONG OR SET WITH HOOKS		TROT WITH BAITS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH AND BULLHEADS . . .	-	-	-	-	17,000	\$4,560	-	-
DRUM, BLACK . . . . .	1,100	\$135	-	-	-	-	-	-
GROUPERS . . . . .	100	23	-	-	-	-	-	-
SEA BASS . . . . .	300	59	-	-	-	-	-	-
SEA DOG or WEAKFISH, SPOTTED . . . . .	500	175	400	\$108	-	-	-	-
SNAPPER; . . . . .	300	136	-	-	-	-	-	-
UNCLASSIFIED . . . . .	600	57	-	-	-	-	-	-
SUCKERS . . . . .	-	-	-	-	200	13	-	-
CRABS, BLUE, HARD . . . . .	-	-	-	-	-	-	100,800	\$4,780
TOTAL . . . . .	2,900	565	400	108	17,200	4,573	100,800	4,780

SPECIES	DIP NETS, DROP		CAST NETS		GRABS		BY HAND, OYSTER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
MULLET, BLACK . . . . .	-	-	1,200	\$125	-	-	-	-
CRABS, BLUE, HARD . . . . .	87,200	\$3,960	-	-	-	-	-	-
SHRIMP . . . . .	-	-	200	80	-	-	-	-
OYSTERS, MARKET, PRIVATE:								
SPRING . . . . .	-	-	-	-	17,400	\$6,076	122,100	\$42,750
FALL . . . . .	-	-	-	-	2,800	981	53,500	18,729
TOTAL . . . . .	87,200	3,960	1,400	205	20,200	7,057	175,600	61,479

**SOUTH ATLANTIC FISHERIES**  
**FLORIDA, EAST COAST**  
**OPERATING UNITS BY GEAR, 1964**

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ITEM	HAUL SEINES, COMMON		PURSE SEINES		OTTER TRAWLS, SHRIMP	POUND NETS, FISH	FYKE AND HOOP NETS, FISH	POTS AND TRAPS				
	MENHADEN	OTHER						CRAB				
			NUMBER	NUMBER				NUMBER	NUMBER			
FISHERMEN:												
ON VESSELS . . . . .	-	63	-		656	-	-	-	-			
ON BOATS AND SHORE: . . . . .	63	-	4		16	6	12	106	36			
REGULAR . . . . .	2	-	4		4	-	-	16	10			
CASUAL . . . . .												
TOTAL . . . . .	65	63	4		676	6	12	122	46			
VESSELS, MOTOR . . . . .	-	3	-		307	-	-	-	-			
GROSS TONNAGE . . . . .	-	383	-		12,004	-	-	-	-			
BOATS: . . . . .												
MOTOR. . . . .	15	6	2		16	4	12	122	35			
OTHER. . . . .	4	-	-		-	-	-	-	-			
GEAR: . . . . .												
NUMBER . . . . .	14	3	2		608	9	320	13,600	5,500			
LENGTH, YARDS . . . . .	5,450	1,200	400		-	-	-	-	-			
YARDS AT MOUTH . . . . .	-	-	-		9,188	-	-	-	-			
POTS AND TRAPS - CONTINUED												
ITEM	POTS AND TRAPS - CONTINUED		GILL NETS				LINES					
	EEL	FISH	LOBSTER, SPINY	ANCHOR, SET OR STAKE	DRAFT, SHAD	RUNA- ROUND	TRAMMEL NETS	HAND				
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER				
FISHERMEN:												
ON VESSELS . . . . .	-	-	41	-	-	70	-	116				
ON BOATS AND SHORE: . . . . .	4	198	143	20	13	352	17	207				
REGULAR . . . . .			14	2	1	26	-	259				
CASUAL . . . . .												
TOTAL . . . . .	4	198	198	22	14	448	17	582				
VESSELS, MOTOR . . . . .	-	-	13	-	-	22	-	45				
GROSS TONNAGE . . . . .	-	-	204	-	-	270	-	1,040				
BOATS: . . . . .												
MOTOR. . . . .	4	198	80	18	14	239	11	336				
OTHER. . . . .	-	-	-	-	-	33	-	-				
GEAR: . . . . .												
NUMBER . . . . .	200	7,490	40,100	26	14	294	11	582				
SQUARE YARDS . . . . .	-	-	-	28,350	19,560	593,830	10,200	-				
HOOKS OR BAITS . . . . .	-	-	-	-	-	-	-	984				
LINES - CONTINUED												
ITEM	TROLL	LONG OR SET WITH HOOKS	TROT WITH BAITS	DIP NETS, COMMON		CAST NETS		SPEARS				
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER				
FISHERMEN:												
ON VESSELS . . . . .	8	-	-	-	-	-	-	-	-			
ON BOATS AND SHORE: . . . . .												
REGULAR . . . . .	207	552	9	-	-	2	-	-	-			
CASUAL . . . . .	120	54	7	1	1	2	2	3				
TOTAL . . . . .	335	606	16	1	1	4	4	3				
VESSELS, MOTOR . . . . .	4	-	-	-	-	-	-	-	-			
GROSS TONNAGE . . . . .	41	-	-	-	-	-	-	-	-			
BOATS, MOTOR . . . . .	241	598	16	1	1	4	4	3				
GEAR: . . . . .												
NUMBER . . . . .	458	602	16	1	1	4	4	3				
HOOKS OR BAITS . . . . .	458	647,625	11,000	-	-	-	-	-	-			
ITEM	TONGS, OYSTER	RAKES	HOOKS, SPONGE	BY HAND				TOTAL, EXCLUSIVE OF DUPLI- CATION				
	NUMBER	NUMBER	NUMBER	OYSTER	OTHER			NUMBER				
FISHERMEN:												
ON VESSELS . . . . .	-	-	-	-	-	-	-	-	852			
ON BOATS AND SHORE: . . . . .												
REGULAR . . . . .	8	5	6	27	3	3	3	1,673	430			
CASUAL . . . . .	1	-	-	-	-	-	-	-	-			
TOTAL . . . . .	9	5	6	27	3	3	3	2,955				
VESSELS, MOTOR . . . . .	-	-	-	-	-	-	-	-	351			
GROSS TONNAGE . . . . .	-	-	-	-	-	-	-	-	12,863			
BOATS: . . . . .												
MOTOR. . . . .	9	5	3	27	3	3	3	1,681	37			
OTHER. . . . .	-	-	-	-	-	-	-	-	-			
GEAR, NUMBER . . . . .	9	5	3	-	-	-	-	-	-			

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

## SOUTH ATLANTIC FISHERIES

## FLORIDA, EAST COAST - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		PURSE SEINES				OTTER TRAWLS, SHRIMP	
			MENHADEN		OTHER			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	2,000	\$49	-	-	29,700	\$4,165	-	-
BALLYHOO . . . . .	30,100	2,769	-	-	-	-	-	-
BLUEFISH . . . . .	3,200	106	-	-	-	-	-	-
BLUE RUNNER . . . . .	6,500	195	-	-	-	-	-	-
CREVALLA . . . . .	52,400	7,918	-	-	-	-	-	-
DRUM:								
BLACK . . . . .	72,500	5,957	-	-	-	-	2,300	\$188
RED . . . . .	19,500	3,568	-	-	-	-	-	-
FLUENDERS . . . . .	2,200	363	-	-	-	-	179,500	29,558
KING WHITING OR "KINGFISH" . . . . .	299,200	26,325	-	-	-	-	967,600	85,154
MENHADEN . . . . .	2,000	2	16,772,800	\$177,792	-	-	-	-
MOJARRA . . . . .	146,400	10,687	-	-	-	-	-	-
MULLET, BLACK . . . . .	14,700	706	-	-	-	-	-	-
POMPANO . . . . .	200	135	-	-	-	-	-	-
SCUP OR PORGY . . . . .	-	-	-	-	-	-	1,000	103
SEA BASS . . . . .	-	-	-	-	-	-	1,000	115
SEA CATFISH . . . . .	300	21	-	-	-	-	-	-
SEA TROUT OR WEAKFISH:								
GRAY . . . . .	15,500	2,108	-	-	-	-	3,500	476
SPOTTED . . . . .	1,500	405	-	-	-	-	-	-
SHAD . . . . .	346,400	34,147	-	-	-	-	-	-
SHIPHEAD, SALT-WATER . . . . .	1,000	82	-	-	-	-	-	-
SPOT . . . . .	73,600	9,742	-	-	-	-	1,700	224
TRIGGERFISH . . . . .	100	7	-	-	-	-	4,500	300
TRIPLETAIL . . . . .	1,300	77	-	-	-	-	-	-
UNCLASSIFIED:								
FOR FOOD . . . . .	13,100	890	-	-	-	-	5,000	340
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	192,100	3,981	-	-	-	-	302,000	6,140
CRABS, BLUE, HARD . . . . .	-	-	-	-	-	-	210,900	13,499
SHRIMP . . . . .	-	-	-	-	-	-	4,476,000	1,964,197
SQUID . . . . .	-	-	-	-	-	-	4,000	763
TOTAL . . . . .	1,294,800	110,262	16,772,800	177,792	29,700	4,165	6,159,200	2,101,076
SPECIES	POUND NETS, FISH		FYKE AND HOOP NETS, FISH				POTS AND TRAPS	
			CRAB		BLUE		OTHER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH AND BULLHEADS . . . . .	148,400	\$21,745	462,600	\$58,002	-	-	-	-
CRABS:								
BLUE:								
HARD . . . . .	-	-	-	-	6,563,700	\$422,848	-	-
SOFT AND PEELER . . . . .	-	-	-	-	2,100	717	-	-
STONE . . . . .	-	-	-	-	5,300	2,327	178,900	\$78,558
TOTAL . . . . .	148,400	21,745	462,600	68,002	6,571,100	425,892	178,900	78,558
SPECIES	POTS AND TRAPS - CONTINUED							
	EEL		FISH		LOBSTER, SPINY			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH AND BULLHEADS . . . . .	-	-	3,687,700	\$537,231	-	-	-	-
EELS, COMMON . . . . .	122,100	\$6,287	-	-	-	-	-	-
CRABS, BLUE:								
HARD . . . . .	-	-	-	-	-	-	900	\$58
STONE . . . . .	-	-	-	-	-	-	6,800	2,985
LOBSTER, SPINY . . . . .	-	-	-	-	-	-	780,700	346,357
TOTAL . . . . .	122,100	6,287	3,687,700	537,231	788,400	351,400		

(CONTINUED ON NEXT PAGE)

# SOUTH ATLANTIC FISHERIES

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## FLORIDA, EAST COAST - CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS						TRAMMEL NETS	
	ANCHOR, SET OR STAKE		DRIFT, SHAD		RUNA- ROUND			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALMIVES . . . . .	-	-	-	-	100	\$2	-	-
BLUEFISH . . . . .	-	-	-	-	1,087,900	100,559	13,300	\$1,224
BLUE RUNNER . . . . .	-	-	-	-	26,100	881	1,500	49
CATFISH AND BULLHEADS . . . . .	-	-	-	-	400	56	-	-
CREVALLE . . . . .	-	-	-	-	42,700	1,261	1,000	30
CROAKER . . . . .	-	-	-	-	33,600	5,137	500	76
DRUM:								
BLACK . . . . .	-	-	-	-	26,900	2,206	700	57
RED . . . . .	-	-	-	-	65,100	11,694	4,700	860
FLOUNDERS . . . . .	-	-	-	-	4,400	726	500	82
KING MACKEREL . . . . .	-	-	-	-	433,500	58,322	-	-
KING WHITING OR "KINGFISH". . . . .	-	-	-	-	5,600	5,624	1,500	132
MENHADEN . . . . .	-	-	-	-	377,400	9,511	3,500	88
MOJARRA . . . . .	-	-	-	-	16,000	1,166	1,300	95
MULLET:								
BLACK . . . . .	-	-	-	-	2,784,400	132,248	-	-
SILVER . . . . .	-	-	-	-	42,000	3,345	-	-
PIGFISH . . . . .	-	-	-	-	4,200	294	-	-
POMPANO . . . . .	-	-	-	-	93,500	63,205	41,600	26,149
SEA CATFISH . . . . .	-	-	-	-	5,900	416	-	-
SEA TROUT OR WEAKFISH:								
GRAY . . . . .	1,500	\$204	-	-	66,200	9,310	4,800	653
SPOTTED . . . . .	-	-	-	-	639,900	172,861	5,700	1,339
SHAD . . . . .	175,300	17,285	91,500	\$8,967	70,400	5,789	-	-
SHEEPSHEAD, SALT-WATER. . . . .	-	-	-	-	1,947,300	164,574	3,500	267
SPANISH MACKEREL . . . . .	-	-	-	-	863,800	114,104	4,000	528
SPOT . . . . .	-	-	-	-	1,200	71	-	-
TRIPLETAIL . . . . .	-	-	-	-	-	-	-	-
UNCLASSIFIED:								
FOR FOOD . . . . .	-	-	-	-	192,900	13,043	5,000	340
BAIT, REDUCTION, AND ANIMAL FOOD. . . . .	-	-	-	-	153,900	3,178	6,700	134
TOTAL . . . . .	176,800	17,489	91,500	8,967	9,045,600	880,007	99,600	34,323

SPECIES	LINES						TROT WITH BAITS	
	HAND		TROLL		LONG OR SET WITH HOOKS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
AMBERJACK . . . . .	7,400	\$269	-	-	-	-	-	-
BARRACUDA . . . . .	600	6	-	-	-	-	-	-
BLUEFISH . . . . .	37,900	3,486	32,500	\$2,989	-	-	-	-
BLUE RUNNER . . . . .	18,400	606	700	24	-	-	-	-
BONITO . . . . .	-	-	100	3	-	-	-	-
CABIO . . . . .	2,400	262	-	-	-	-	-	-
CATFISH AND BULLHEADS . . . . .	-	-	-	-	7,770,000	\$1,129,649	-	-
CREVALLE . . . . .	63,300	1,868	-	-	-	-	-	-
CROAKER . . . . .	14,500	2,204	-	-	-	-	-	-
DOLPHIN . . . . .	-	-	5,700	699	-	-	-	-
DRUM:								
BLACK . . . . .	9,800	803	-	-	-	-	-	-
RED . . . . .	29,700	5,435	-	-	-	-	-	-
FLOUNDERS . . . . .	1,200	198	-	-	-	-	-	-
GROUPERS . . . . .	211,300	26,202	-	-	2,600	350	-	-
GRUNTS . . . . .	22,500	1,628	-	-	1,500	108	-	-
HOGFISH . . . . .	2,500	484	-	-	-	-	-	-
JEWFISH . . . . .	31,700	2,354	-	-	-	-	-	-
KING MACKEREL . . . . .	27,700	3,739	1,558,800	211,259	-	-	-	-
KING WHITING OR "KINGFISH". . . . .	31,100	2,738	-	-	-	-	-	-
MOJARRA . . . . .	15,500	1,132	-	-	-	-	-	-
PERMIT . . . . .	300	31	-	-	-	-	-	-
PIGFISH . . . . .	500	34	-	-	-	-	-	-
POMPANO . . . . .	4,400	2,975	-	-	-	-	-	-
SCORP. PORGY . . . . .	35,400	3,632	-	-	-	-	-	-
SEA BASS . . . . .	47,900	5,501	-	-	-	-	-	-
SEA CATTIFISH . . . . .	1,900	133	-	-	-	-	-	-
SEA TROUT OR WEAKFISH:								
GRAY . . . . .	10,400	1,414	3,500	476	-	-	-	-
SPOTTED . . . . .	100,400	27,108	17,000	4,590	-	-	-	-

(CONTINUED ON NEXT PAGE)

## SOUTH ATLANTIC FISHERIES

## FLORIDA, EAST COAST - CATCH BY GEAR, 1964 - Continued

SPECIES	LINES							
	HAND		TRQLL		LONG OR SET WITH HOOKS		TROT WITH BAITS	
POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	
SHEEPSHEAD, SALT-WATER . . . . .	20,700	\$1,696	-	-	-	-	-	-
SNAPPER; MANGROVE . . . . .	82,600	16,627	-	-	2,000	\$404	-	-
MUTTON . . . . .	63,400	15,823	-	-	1,200	300	-	-
RED . . . . .	541,700	193,611	-	-	-	-	-	-
VERMILION . . . . .	5,200	1,147	-	-	-	-	-	-
YELLOWTAIL . . . . .	144,100	38,468	-	-	-	-	-	-
SPANISH MACKEREL . . . . .	21,600	1,815	33,300	\$2,797	-	-	-	-
SPOT . . . . .	8,600	1,134	-	-	-	-	-	-
TRIGGERFISH . . . . .	1,000	57	-	-	-	-	-	-
TRIPLETAIL . . . . .	2,000	122	-	-	-	-	-	-
WASPBILL . . . . .	17,500	1,913	-	-	-	-	-	-
UNCLASSIFIED: FOR FOOD, BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	46,100	3,134	-	-	1,300	88	-	-
CRABS, BLUE, HARD . . . . .	4,500	90	-	-	-	-	175,300	\$11,219
TURTLES, SOFT-SHELL . . . . .	-	-	-	-	310,200	24,816	-	-
<b>TOTAL . . . . .</b>	<b>1,687,700</b>	<b>370,059</b>	<b>1,651,600</b>	<b>223,037</b>	<b>8,089,000</b>	<b>1,155,715</b>	<b>175,300</b>	<b>11,219</b>
SPECIES	DIP NETS, COMMON		CAST NETS		SPEARS		TONGS, OYSTER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS . . . . .	-	-	-	-	1,100	\$182	-	-
MOJARRA . . . . .	-	-	1,500	\$110	-	-	-	-
MULLET, BLACK . . . . .	-	-	7,500	360	-	-	-	-
LOBSTER, SPINY . . . . .	5,000	\$2,230	-	-	-	-	-	-
SHRIMP . . . . .	-	-	14,700	6,803	-	-	-	-
OYSTERS, MARKET: PUBLIC:	-	-	-	-	-	-	-	-
SPRING . . . . .	-	-	-	-	-	-	11,700	\$3,510
FALL . . . . .	-	-	-	-	-	-	26,100	7,642
PRIVATE, FALL . . . . .	-	-	-	-	-	-	2,500	750
<b>TOTAL . . . . .</b>	<b>5,000</b>	<b>2,230</b>	<b>23,700</b>	<b>7,273</b>	<b>1,100</b>	<b>182</b>	<b>40,300</b>	<b>12,102</b>
SPECIES	RAKES		HOOKS, SPONGE		BY HAND			
					OYSTER		OTHER	
POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	
CLAMS, HARD, PUBLIC . . . . .	500	\$160	-	-	-	-	500	\$179
CONCHS . . . . .	-	-	-	-	-	-	100	42
OYSTERS, MARKET: PUBLIC:	-	-	-	-	-	-	-	-
SPRING . . . . .	-	-	-	-	8,300	\$2,490	-	-
FALL . . . . .	-	-	-	-	4,700	1,410	-	-
PRIVATE:	-	-	-	-	-	-	-	-
SPRING . . . . .	-	-	-	-	25,400	7,620	-	-
FALL . . . . .	-	-	-	-	13,600	4,050	-	-
SPONGES:	-	-	100	\$550	-	-	-	-
SHEEPSWOOL . . . . .	-	-	200	203	-	-	-	-
YELLOW . . . . .	-	-	-	-	-	-	-	-
<b>TOTAL . . . . .</b>	<b>500</b>	<b>180</b>	<b>300</b>	<b>753</b>	<b>52,000</b>	<b>15,600</b>	<b>600</b>	<b>221</b>



# SOUTH ATLANTIC FISHERIES

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## SUPPLEMENTARY TABLES

### FLORIDA - OPERATING UNITS BY DISTRICT, 1964

ITEM	EAST COAST	WEST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER
FISHERMEN:			
ON VESSELS . . . . .	852	3,932	4,496
ON BOATS AND SHORE:			
REGULAR . . . . .	1,673	3,034	4,707
CASUAL . . . . .	430	1,518	2,048
TOTAL . . . . .	2,955	8,584	11,251
VESSELS, MOTOR . . . . .	351	1,278	1,495
GROSS TONNAGE . . . . .	12,863	50,070	57,238
BOATS:			
MOTOR . . . . .	1,681	3,391	5,072
OTHER . . . . .	37	187	224
GEAR:			
HAUL SEINES, COMMON . .	14	81	95
LENGTH, YARDS . . . . .	5,450	55,600	61,050
PURSE SEINES:			
MENHADEN . . . . .	3	-	3
LENGTH, YARDS . . . . .	1,200	-	1,200
OTHER . . . . .	2	6	8
LENGTH, YARDS . . . . .	400	1,200	1,600
OTTER TRAWLS:			
CRAB . . . . .	-	5	5
YARDS AT MOUTH . . . . .	-	93	93
FISH . . . . .	-	3	3
YARDS AT MOUTH . . . . .	-	87	87
SHRIMP . . . . .	608	1,805	2,189
YARDS AT MOUTH . . . . .	9,188	27,470	33,148
POUND NETS:			
FISH . . . . .	9	-	9
CRAB . . . . .	-	40	40
FYKE AND HOOP NETS,			
FISH . . . . .	320	-	320
POTS AND TRAPS:			
CRAB:			
BLUE . . . . .	13,600	45,885	62,485
OTHER . . . . .	5,500	20,974	26,474
EEL . . . . .	200	-	200
FISH . . . . .	7,490	-	7,490
LOBSTER, SPINY . . . . .	40,100	73,553	112,653
GILL NETS:			
ANCHOR, SET OR STAKE . .	26	4	30
SQUARE YARDS . . . . .	28,350	2,920	31,270
DRIFT:			
SHAD . . . . .	14	-	14
SQUARE YARDS . . . . .	19,860	-	19,860
OTHER . . . . .	-	14	14
SQUARE YARDS . . . . .	-	41,100	41,100
RUNAROUND . . . . .	294	1,113	1,401
SQUARE YARDS . . . . .	593,830	1,657,618	2,228,446
TRAMMEL NETS . . . . .	11	297	308
SQUARE YARDS . . . . .	10,200	361,701	371,901
LINES:			
HAND . . . . .	502	2,979	3,553
HOOKS . . . . .	984	8,448	9,420
TROLL . . . . .	458	1,299	1,757
HOOKS . . . . .	458	1,299	1,757
LONG OR SET WITH			
HOOKS . . . . .	602	72	674
HOOKS . . . . .	647,625	3,800	651,425
TROT WITH BAITS . . . . .	16	11	27
BAITS . . . . .	11,000	6,600	17,600
DIP NETS:			
COMMON . . . . .	1	66	67
DROP . . . . .	-	160	160
CAST NETS . . . . .	4	15	19
SPEAR . . . . .	3	31	34
DREDGES, SCALLOP . . . . .	-	57	57
YARDS AT MOUTH . . . . .	-	59	58
TONGS:			
OYSTER . . . . .	9	787	796
OTHER . . . . .	-	8	8
RAKES . . . . .	5	1	5
HOOKS, SPONGE . . . . .	3	46	49
DIVING OUTFITS . . . . .	-	12	12

NOTE:--A TOTAL OF 550 FISHERMEN USING 550 MOTOR BOATS FISHED 6,450 FISH POTS AND TRAPS, 3 POUND NETS, AND 462 LONG OR SET LINES WITH 544,300 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, 1964

SPECIES	EAST COAST		WEST COAST		TOTAL		
	FISH	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .		2,100	\$51	433,300	\$16,512	435,400	\$16,563
AMBERJACK . . . . .		7,400	259	9,600	449	17,200	718
BALLYHOO . . . . .		29,700	4,165	887,300	124,660	917,000	128,825
BARRACUDA . . . . .		600	26	1,600	68	2,400	114
BLUETFISH . . . . .		1,201,700	111,027	778,800	77,094	1,980,500	189,121
BLUE RUNNER . . . . .		49,900	1,666	1,210,300	27,716	1,260,200	29,382
BONITO . . . . .		100	3			100	3
CABIO . . . . .		2,400	262	10,500	619	12,900	881
CATFISH AND BULLHEADS		12,069,100	1,756,685	81,000	14,737	12,150,100	1,771,422
CIGARFISH . . . . .		-	-	501,800	36,033	501,800	36,033
CREVALLE . . . . .		113,500	3,374	536,700	13,366	650,200	16,740
CROAKER . . . . .		101,200	15,335	64,500	4,367	165,700	19,702
DOLPHIN . . . . .		5,700	899	22,000	1,576	27,700	2,475
DRUM; . . . . .							
BLACK . . . . .		112,200	9,211	68,400	4,528	200,600	13,769
RED . . . . .		115,000	21,757	699,200	90,392	818,200	112,149
EELS . . . . .		122,100	1,287			122,100	6,287
FLOUNDERS . . . . .		168,900	31,109	204,400	46,024	393,300	77,133
GROUPERS . . . . .		214,100	26,682	7,662,200	822,907	7,876,300	849,589
GRUNTS . . . . .		24,000	1,736	37,400	2,538	61,400	4,274
HOGFISH . . . . .		2,500	484	21,500	3,372	24,000	3,856
JEWFISH . . . . .		31,700	2,354	66,200	7,537	117,900	9,891
KING MACKEREL . . . . .		2,020,000	273,520	1,313,900	110,097	3,333,900	383,617
KING WHITING OR "KINGFISH".		1,363,500	119,977	232,100	10,209	1,595,600	130,166
MENHADEN . . . . .		17,154,500	187,411	84,000	2,430	17,238,500	189,841
MOJARRA . . . . .		180,700	13,192	105,100	7,730	285,800	20,922
MULLIGATTAUN;							
BLACK . . . . .		2,806,600	133,314	34,995,600	1,928,258	37,802,200	2,061,572
SILVER . . . . .		42,000	3,345	545,000	33,128	587,000	36,473
PERMIT . . . . .		300	31	17,600	1,940	17,900	1,971
PIGFISH . . . . .		4,700	328	13,400	845	18,100	1,173
POMPANO . . . . .		139,700	94,464	624,900	387,652	764,600	482,116
SCUP OR PORGY . . . . .		36,400	3,735	53,600	4,914	90,000	8,649
SEA BASS . . . . .		48,900	5,616		-	48,900	5,616
SEA CATFISH . . . . .		8,100	570	236,600	14,399	244,700	14,969
SEA TROUT OR WEAKFISH:							
GRAY . . . . .		107,400	14,641	-	-	107,400	14,641
SPOTTED . . . . .		764,500	206,503	2,799,300	705,822	3,582,800	912,325
WHITE . . . . .		-	-	42,900	4,392	42,900	4,392
SHAD . . . . .		513,200	60,399	-	-	613,200	60,399
SHARKS, UNCLASSIFIED . . . . .				700	52	700	52
SHEEPSHEAD, SALT-WATER.		95,600	7,854	213,600	18,745	309,200	26,599
SNAPPER;							
MANGROVE . . . . .		84,600	17,031	324,900	58,130	409,500	75,161
MUTTON . . . . .		64,600	16,123	134,300	30,017	198,900	46,140
RED . . . . .		541,700	193,611	6,532,200	2,009,328	7,073,900	2,202,939
VERMILION . . . . .		5,200	1,147	89,600	15,104	94,700	16,251
YELLOWTAIL . . . . .		144,100	36,468	895,500	219,739	1,040,600	258,227
SPANISH MACKEREL . . . . .		2,022,000	169,186	3,879,600	369,705	5,881,600	533,931
SPORTFISH . . . . .		951,900	125,732	352,000	20,999	1,393,900	151,920
STURGEON . . . . .		-	-	8,900	1,808	8,900	1,808
TEMPOUNDER . . . . .		-	-	841,500	16,758	841,500	18,768
TILEFISH . . . . .		-	-	400	39	400	39
TRIGGERFISH . . . . .		5,600	374	24,000	828	29,600	1,202
TRIPLETAILED . . . . .		4,500	270	1,000	49	5,500	319
WARSAW . . . . .		17,500	1,913	158,600	12,361	176,100	14,274
UNCLASSIFIED: FOR FOOD . . . . .		263,400	17,835	933,000	67,352	1,196,400	85,187
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .		659,200	13,523	248,100	6,347	907,300	19,670
TOTAL FISH . . . . .		44,528,500	3,713,515	69,040,700	7,360,901	113,569,200	11,074,416
SHELLFISH, ETC.							
CRABS; BLUE;							
HARD . . . . .		6,950,800	447,623	14,068,500	842,704	21,019,300	1,290,327
SOFT AND PEELER . . . . .		2,100	717	13,000	6,567	15,100	7,284
STONE . . . . .		191,000	83,870	751,700	232,986	942,700	316,856
TOTAL CRABS . . . . .		7,143,900	532,210	14,833,200	1,082,257	21,977,100	1,614,467

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# SOUTH ATLANTIC FISHERIES

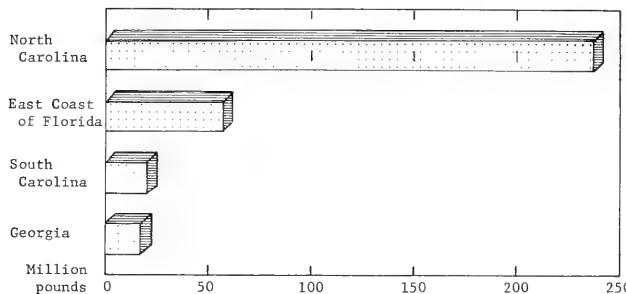
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## FLORIDA - CATCH BY DISTRICTS, 1964 - Continued

SPECIES	EAST COAST		WEST COAST		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SHELLFISH, ETC. - CONTINUED						
LOBSTERS, SPINY . . . . .	785,700	\$350,567	2,645,400	\$1,211,576	3,631,100	\$1,562,163
SHRIMP . . . . .	4,490,700	1,971,000	39,965,800	13,322,273	44,456,500	15,293,273
CLAMS, HARD, PUBLIC. . . . .	1,000	359	71,700	23,682	72,700	24,241
CONCHS . . . . .	100	42	1,800	536	1,900	576
OYSTERS, MARKET:						
PUBLIC:						
SPRING . . . . .	20,000	6,000	1,477,500	412,886	1,497,500	418,886
FALL . . . . .	30,600	9,252	1,185,200	331,856	1,216,000	341,108
PRIVATE:						
SPRING . . . . .	25,400	7,520	70,700	19,796	96,100	27,416
FALL . . . . .	16,100	4,830	59,300	16,604	75,400	21,434
TOTAL OYSTERS. . . . .	92,300	27,702	2,792,700	781,142	2,885,000	608,644
SCALLOPS, BAY. . . . .						
QUID. . . . .	-	-	18,400	13,752	18,400	13,752
TURTLES:						
GREEN. . . . .	4,000	783	14,700	1,491	18,700	2,274
LOGGERHEAD	-	-	29,600	4,274	29,600	4,274
SOFT-SHELL	-	-	1,100	112	1,100	112
SPONGES:						
GRASS. . . . .	310,200	24,616	-	-	310,200	24,616
SHEEPSWOOL. . . . .	-	-	2,000	2,694	2,000	2,694
YELLOW . . . . .	100	550	34,900	347,736	35,000	348,286
200	203	6,700	12,154	6,900	12,357	
TOTAL SHELLFISH, ETC.. . .	12,828,200	2,908,252	60,618,000	16,803,879	73,446,200	19,712,131
GRAND TOTAL. . . . .	57,356,700	6,621,767	129,658,700	24,164,780	187,015,400	30,786,547

NOTE:--THE CATCH OF 8,733,600 POUNDS OF CATFISH AND BULLHEADS (VALUED AT \$1,266,398) AND 302,200 POUNDS OF SOFT-SHELL TURTLES (VALUED AT \$24,176) TAKEN FROM THE INLAND LAKES IS INCLUDED WITH THE CATCH FOR THE EAST COAST OF FLORIDA. FOR THE PURPOSE OF THIS REPORT THE "EAST COAST OF FLORIDA" INCLUDES THE COASTAL COUNTIES FROM NASSAU TO DADE, INCLUSIVE, WHILE THE "WEST COAST OF FLORIDA" INCLUDES THOSE FROM MONROE TO ESCAMBIA, INCLUSIVE.

## SOUTH ATLANTIC STATES CATCH, 1964



## SOUTH ATLANTIC FISHERIES

### SOUTH ATLANTIC SHRIMP FISHERY

South Atlantic shrimplandings of 11.0 million pounds (heads-off) were below normal, although they surpassed by 1.1 million pounds the 1963 landings--the lowest on record since 1908. A strong consumer demand for shrimp throughout most of the year resulted in higher ex-vessel prices, and fishermen were paid \$1.4 million more than in 1963. A major factor in the continued low landings was the shortage of white shrimp in South Carolina waters; only 516,000 pounds were taken--332,300 pounds more than in 1963, but well below the 2.0 to 2.5 million-pound level considered a good yearly production. The second successive year of poor production caused economic hardship among vessel owners and wholesale dealers, and some fishermen shifted to Gulf ports.

A greater abundance of pink shrimp in North Carolina brought total shrimp landings to 2.7 million pounds, 600,000 pounds more than in 1963. As the fall was unusually warm, quantities of shrimp (principally pink) remained in inside waters accessible to trawlers. Landings of brown shrimp in North Carolina were 17 percent below those of the previous year.

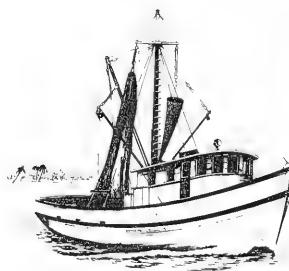
Georgia also had a shortage of white shrimp; however, brown shrimp landings (1.2 million pounds) were near normal. Ex-vessel price increases during peak production periods and a greater proportion of larger size shrimp partially offset the relatively poor volume. Georgia shrimp trawlers fished for royal red shrimp and landed 25,400 pounds--about the same level as the previous year.

At Florida East Coast ports, total shrimp landings (2.9 million pounds) and species composition were nearly the same as in 1963. A few Florida shrimp trawlers landed 73,700 pounds of royal red shrimp. None of this species was landed the previous year.

The quantities shown in the following tables are 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 of the catch.

The pounds of heads-off shrimp may be converted to heads-on (round) weight by multiplying brown by 1.61; pink, 1.60; white, 1.54; seabobs, 1.53; and royal red, by 1.80.

Detailed information on 1964 landings of shrimp in the South Atlantic States, by months for each State, was published in Current Fishery Statistics No. 3785.



SHRIMP TRAWLER

# SOUTH ATLANTIC FISHERIES

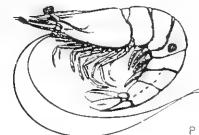
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## SUMMARY OF SHRIMP LANDINGS, 1964

SIZE	BROWN		PINK		WHITE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
15 - 20 . . . . .	246,002	\$176,125	61,066	\$43,229	165,744	\$145,724
21 - 25 . . . . .	530,812	366,903	91,692	61,392	1,167,714	910,623
26 - 30 . . . . .	1,241,223	787,975	129,123	83,145	1,179,366	830,571
31 - 40 . . . . .	1,786,915	979,909	368,744	225,682	1,302,211	824,558
41 - 50 . . . . .	375,789	165,603	245,411	110,808	711,420	380,127
51 - 67 . . . . .	194,768	72,241	274,596	103,179	580,161	245,317
68 AND OVER . . . . .	27,079	7,340	25,698	6,644	169,603	52,466
TOTAL . . . . .	4,403,488	2,559,096	1,217,530	636,069	5,272,219	3,389,386

SIZE	ROYAL RED		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
15 - 20 . . . . .	3,109	\$2,029	476,823	\$357,105
21 - 25 . . . . .	33,684	21,610	1,824,102	1,351,516
26 - 30 . . . . .	1,227	741	2,541,939	1,702,432
31 - 40 . . . . .	-	-	3,477,870	2,030,149
41 - 50 . . . . .	36,843	16,059	1,370,463	675,597
51 - 67 . . . . .	24,091	8,806	1,073,616	429,543
68 AND OVER . . . . .	-	-	222,580	68,450
TOTAL . . . . .	99,153	49,244	10,992,390	6,639,795



PINK SHRIMP

## SOUTH ATLANTIC SHRIMP LANDINGS, BY SPECIES AND SIZE, 1964

SPECIES AND SIZE	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
<b>BROWN:</b>						
15 - 20 . . . . .	246,311	\$175,650	-	-	283	\$223
21 - 25 . . . . .	299,177	191,150	35,060	\$24,948	111,361	82,086
26 - 30 . . . . .	218,833	135,310	323,066	201,017	463,881	295,618
31 - 40 . . . . .	415,108	241,948	601,815	303,260	582,780	322,573
41 - 50 . . . . .	154,800	72,284	151,032	62,373	38,466	16,145
51 - 67 . . . . .	122,004	46,866	24,545	7,363	20,254	7,492
68 AND OVER . . . . .	2,759	773	1,000	220	4,460	1,249
TOTAL . . . . .	1,444,942	864,889	1,139,318	599,081	1,221,485	728,586
<b>PINK:</b>						
15 - 20 . . . . .	61,066	43,229	-	-	-	-
21 - 25 . . . . .	88,492	59,206	-	-	3,200	2,176
26 - 30 . . . . .	129,123	83,145	-	-	-	-
31 - 40 . . . . .	368,744	225,682	-	-	-	-
41 - 50 . . . . .	245,411	110,808	-	-	3,900	1,755
51 - 67 . . . . .	274,596	103,179	-	-	-	-
68 AND OVER . . . . .	25,898	6,644	-	-	-	-
TOTAL . . . . .	1,210,430	632,138	-	-	7,100	3,931

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# SOUTH ATLANTIC FISHERIES

## SOUTH ATLANTIC SHRIMP LANDINGS

### BY SPECIES AND SIZE, 1964 - Continued

SPECIES AND SIZE	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
WHITE:						
15 - 20 . . . . .	-	-	-	-	2,095	\$1,794
21 - 25 . . . . .	2,562	\$1,742	45,806	\$29,774	184,921	149,550
26 - 30 . . . . .	3,587	2,224	133,598	80,161	474,554	345,423
31 - 40 . . . . .	4,099	2,295	176,466	92,062	849,708	555,194
41 - 50 . . . . .	-	-	102,089	42,877	493,943	275,459
51 - 67 . . . . .	-	-	56,052	17,416	453,539	199,825
68 AND OVER . . . . .	-	-	-	-	82,512	25,425
TOTAL . . . . .	10,248	6,261	516,011	262,290	2,541,272	1,552,670
ROYAL RED:						
21 - 25 . . . . .	-	-	-	-	12,594	8,261
41 - 50 . . . . .	-	-	-	-	574	241
51 - 67 . . . . .	-	-	-	-	12,276	4,447
TOTAL . . . . .	-	-	-	-	25,444	12,949
GRAND TOTAL . . . . .	2,665,620	1,503,288	1,655,329	861,371	3,795,301	2,298,136
SPECIES AND SIZE		FLORIDA, EAST COAST		TOTAL		
	POUNDS	VALUE	POUNDS	VALUE		
BROWN:						
15 - 20 . . . . .	308	\$252	246,902	\$176,125		
21 - 25 . . . . .	97,364	68,811	530,812	356,903		
26 - 30 . . . . .	234,543	153,830	1,241,223	787,973		
31 - 40 . . . . .	187,742	112,228	1,786,915	979,900		
41 - 50 . . . . .	31,491	175,311	375,789	165,603		
51 - 67 . . . . .	27,965	10,520	194,768	72,241		
68 AND OVER . . . . .	16,860	5,098	27,079	7,340		
TOTAL . . . . .	597,743	366,540	4,403,486	2,559,096		
PINK:						
15 - 20 . . . . .	-	-	61,066	43,229		
21 - 25 . . . . .	-	-	91,692	61,382		
26 - 30 . . . . .	-	-	129,123	83,145		
31 - 40 . . . . .	-	-	388,744	225,682		
41 - 50 . . . . .	-	-	246,411	110,808		
51 - 67 . . . . .	-	-	274,596	103,179		
68 AND OVER . . . . .	-	-	25,898	8,844		
TOTAL . . . . .	-	-	1,217,530	636,069		
WHITE:						
15 - 20 . . . . .	163,649	143,930	165,744	145,724		
21 - 25 . . . . .	934,425	729,557	1,167,714	910,623		
26 - 30 . . . . .	563,627	402,763	1,175,366	830,571		
31 - 40 . . . . .	271,938	175,007	1,302,211	824,558		
41 - 50 . . . . .	115,368	61,791	711,420	380,127		
51 - 67 . . . . .	68,570	28,076	580,161	245,317		
68 AND OVER . . . . .	87,091	27,041	169,603	52,466		
TOTAL . . . . .	2,204,668	1,568,165	5,272,219	3,389,386		
ROYAL RED:						
15 - 20 . . . . .	3,108	2,028	3,108	2,028		
21 - 25 . . . . .	21,290	13,349	33,884	21,610		
26 - 30 . . . . .	1,227	741	1,227	741		
41 - 50 . . . . .	36,269	15,816	36,843	16,059		
51 - 67 . . . . .	11,815	4,359	24,091	8,806		
TOTAL . . . . .	73,709	36,295	99,153	49,244		
GRAND TOTAL . . . . .	2,876,140	1,971,000	10,992,390	6,633,795		

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 1.61 FOR BROWN, 1.60 FOR PINK, 1.54 FOR WHITE, AND 1.80 FOR ROYAL RED. 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 ROYAL RED (*Hymenopenaeus robustus*). 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 ON 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.

# SOUTH ATLANTIC FISHERIES

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## SURVEY PROCEDURE IN THE SOUTH ATLANTIC STATES

Statistical programs in the South Atlantic States are under the general supervision of the Bureau's Regional Office in St. Petersburg Beach, Fla., and direct supervision of a Regional Supervisor stationed in New Orleans, La. Collection of data is carried out by Fishery Reporting Specialists trained in obtaining and reporting fishery statistical data. They are stationed in Beaufort, N.C.; Charleston, S.C.; Brunswick, Ga.; and Miami, Fla. Supervisory field personnel are also stationed in Beaufort, N.C. and Miami, Fla.

Catch Statistics: The collection of catch statistics is a joint venture of the Bureau of Commercial Fisheries and the States of North Carolina, South Carolina, Georgia, and Florida. Standard forms designed for the needs of each State, the Bureau, and industry are used to collect catch data in each State. Forms are mailed to dealers or buyers each month with a request that they be completed and returned by a specified date. The forms provide for reporting the pounds and value of the species purchased from fishermen, or caught by the producers' fleets. Forms not returned by the deadline date are picked up by Bureau or State employees. The data, which are tabulated for publication in monthly landings bulletins for the various States, show the volume of the catch of each species by county or district and the total value of each species.

When there are revisions in the monthly data already published, corrections are made in the cumulative totals in the current monthly bulletin. The revised figures for the individual months appear in the annual bulletin. Field reporting specialists interview fishermen and dealers to obtain annual information on the quantity of each species taken by the types of gear operated and the various bodies of water in which the catch was made. When the interviewing has been completed and the catch has been credited to the respective gears and water areas, an annual report is prepared on a specially designed form showing volume and value of the catch by species, gear, and area of capture. The forms are then forwarded to the Washington Office where the data are machine processed. The figures are reviewed in the Central office and by field personnel concerned with the survey. When all discrepancies have been reconciled, the data are published in a sectional summary in the Current Fishery Statistics series entitled "South Atlantic Fisheries" and, subsequently, in the Digest, "Fishery Statistics of the United States."

Data on the catch by water area for the South Atlantic States are not published. However, the information is machine processed and supplied to State and federal offices and laboratories in the area. Information on the catch by counties has not been published in the Digest since 1960. However, the data are prepared and copies of the tabulations are maintained in the Central office.

Operating Units: Field reporting specialists are supplied with a set of prepunched IBM vessel cards obtained from the Bureau of Customs. The cards are prepunched with the following information: name, official number, rig code, gross tonnage, length, and year built. The reporting specialist, through interviews, obtains data on the number of crew; and number, type, and quantity of gear utilized by the vessel during the year. The number and quantity of gear is the greatest quantity fished at one time. It does not include replacement gear aboard the vessel or ashore.

When the reporter has completed the entries on the vessel cards, they are forwarded to the Regional Supervisor who arranges for the punching and tabulating of the data. The tabulations are then forwarded to the reporter who prepares operating unit tables for the State. Data on the shore and boat fishery (those craft of less than 5 net tons and fishermen operating without benefit of craft along the shore) which have been assembled by the reporter by personal interview and from State records are entered on the State operating unit tables in much the same manner as for the vessel fishery. Lists of boat and shore fishermen are usually maintained in the files of the reporter.

When all reconciliation of the data has been accomplished in the Region, the operating unit tabulations are forwarded to the Washington office. If discrepancies are discovered, these are reconciled. Summary operating unit data are then published in a section CFS bulletin entitled "South Atlantic Fisheries." These data and detailed information on the operating units by gear are published in the annual Digest. Information on the operating units by counties is prepared but has not been published in the Digest since 1960. Copies of the tabulations are prepared each year and are on file in the Central office.

Processed Fishery Products: Information on the production of processed fishery products (canned, fresh and frozen packaged fish and shellfish, "cured" items, and industrial

## SOUTH ATLANTIC FISHERIES

fishery products) is obtained from processors through the use of especially designed questionnaires. Data are obtained on the monthly production of fish meal, oil, and solubles, fish sticks, portions, and breaded shrimp and published currently during the year. Statistics on the production of other processed products are obtained annually.

Individual monthly and annual reports are forwarded to the Washington office for tabulation and publication of the data. Monthly data are published in bulletins entitled "Fish Meal and Oil" and "Fish Sticks, Fish Portions, and Breaded Shrimp." The latter is released quarterly. Annual data are released in bulletins entitled "Canned Fishery Products;" "Industrial Fishery Products" (fish meal, oil, and solubles, etc.); "Packaged Fishery Products" (fresh and frozen fillets and steaks); and "Manufactured Fishery Products." The latter report contains a summary of the data contained in the monthly and annual processed bulletins and also information on the annual production of packaged shellfish and cured fishery products.

The Fishery Market News office in Hampton, Va., covers part of the North Carolina area on a daily basis. Persons interested in current day-to-day trends should consult that office. The monthly landings bulletins represent the best available information on a monthly and seasonal basis and the Statistical Digest represents the most complete annual data available in Bureau records.

Annual statistical surveys of the fisheries of the South Atlantic States have been made for the following years:

Data for:	Title of Publication
1880	The Fisheries and Fishery Industries of the United States, Section II, Senate Document No. 124, 47th Congress, 1887
1887	Report of the Commissioner of Fisheries for 1888
1888	Report of the Commissioner of Fisheries for 1888
1889	Bulletin of the United States Fish Commission, 1891
1890	Bulletin of the United States Fish Commission, 1891
1897	Report of the Commissioner of Fisheries for the Year Ending June 30, 1889
1902	Report of the Commissioner of Fisheries for the Year Ending June 30, 1903
1908	Fisheries of the United States, 1908, Bureau of the Census
1918	Fishery Industries of the United States, 1920
1923	Fishery Industries of the United States, 1924
1927	Fishery Industries of the United States, 1928
1928	Fishery Industries of the United States, 1929
1929	Fishery Industries of the United States, 1930
1930	Fishery Industries of the United States, 1931
1931	Fishery Industries of the United States, 1932
1932	Fishery Industries of the United States, 1932
1934	Fishery Industries of the United States, 1935
1936	Fishery Industries of the United States, 1937
1937	Fishery Industries of the United States, 1938
1938	Fishery Industries of the United States, 1939
1939	Fishery Statistics of the United States, 1939
1940	Fishery Statistics of the United States, 1940
1945	Fishery Statistics of the United States, 1945
1950	Fishery Statistics of the United States, 1950
1951	Fishery Statistics of the United States, 1951
1952	Fishery Statistics of the United States, 1952
1953	Fishery Statistics of the United States, 1953
1954	Fishery Statistics of the United States, 1954
1955	Fishery Statistics of the United States, 1955
1956	Fishery Statistics of the United States, 1956
1957	Fishery Statistics of the United States, 1957
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1959	Fishery Statistics of the United States, 1959
1960	Fishery Statistics of the United States, 1960
1961	Fishery Statistics of the United States, 1961
1962	Fishery Statistics of the United States, 1962
1963	Fishery Statistics of the United States, 1963
1964	Fishery Statistics of the United States, 1964

## SECTION 6 - GULF FISHERIES

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The commercial catch of fish and shellfish landed at ports of the Gulf States (West Coast of Florida, Alabama, Mississippi, Louisiana, and Texas) was 1.3 billion pounds, with a dockside value of \$99.3 million. Compared with 1963, this was a decrease of 81.7 million pounds, but an increase of \$500,000. Landings of most major items declined.

Despite a 56.1-million-pound drop, Louisiana remained the leading State in volume of landings. Mississippi production was 9.4 million pounds less than the previous year, and Texas declined 21.3 million pounds. West Coast of Florida landings were about 5 million pounds greater than the previous year, while Alabama had a gain of 179,000 pounds.

Fishermen and vessels. Although not a record year for any major fishery, favorable prices attracted additional fishermen, and the total was 25,171--688 more than in 1963. The increase was divided about equally between those aboard vessels (craft of 5 net tons and over) and on boats (craft under 5 net tons). The vessel fleet grew to 3,582--213 more than in 1963. According to Bureau of Customs records, 221 vessels in the Gulf area received first documents as fishing craft during 1964, compared with 239 the previous year. As in 1963, about 50 of the new vessels joined the U.S.-flag shrimp fleet operating in Caribbean waters.

Processing. There was a slight decline in the value of processed fishery products--\$173.2 million during 1964, compared with the record \$174.2 million in 1963. Reduced supplies of domestic shrimp for canning resulted in a 38-percent decline in the volume and 32-percent in the value of the canned pack. Producers of breaded shrimp were not affected by the reduced catch, since imports, suitable for breading, were at record levels, and breaded shrimp production reached new highs in volume and value.

Weather. Four hurricanes (Cleo, Dora, Hilda, and Isabelle) threatened the Gulf fishing industry during 1964, but, fortunately, the storms did not come ashore where plants and fishing fleets were concentrated. Some plants were damaged by water, a few nets and traps were lost, but fishing craft received little or no damage.

The January--March period was somewhat milder than in 1962 and 1963, and very few days had below-freezing temperature. During the winter, rainfall was above normal, but in the summer it was below average.

Labor. Union organizing activity among menhaden fishermen, started the previous year, was successful, and by the end of 1964 the majority of Gulf plants had signed contracts with the union representing the fishermen. There was also some union-organizing activity in shrimp processing plants and, in November, employees of a major shrimp plant in Brownsville, Tex., voted for union representation.

Shrimp. Nearly all segments of the industry enjoyed a good year. Fishermen were particularly fortunate--although catches for the area were 12 percent below those of 1963, the value dropped only 1 percent. In Louisiana, landings were down 21.4 million pounds (heads-on basis) owing to a poor brown shrimp season; similarly affected by a scarcity of brown shrimp were Mississippi and Alabama, where landings were 3.0 million and 500,000 pounds, respectively, below the previous year. Texas production was down 4.2 million pounds. West Coast of Florida landings were up 5 million pounds because of a greater abundance of shrimp on the Tortugas grounds and good catches in the Caribbean area.

At the beginning of the year, the shrimp industry was quite concerned about future market conditions--cold storage holdings of raw, headless, and breaded shrimp were at record levels, and canned pack inventories were higher than usual. A concerted industry advertising campaign, with Bureau assistance, helped to stimulate demand. As the year progressed, the market for nearly all processed shrimp products strengthened appreciably,

## GULF FISHERIES

and consumers increased their demand for shrimp despite relatively higher prices. The strong demand was reflected in higher ex-vessel prices, which averaged 35 cents per pound compared with 31 cents the previous year.

U.S.-flag shrimp trawlers continued to be active in the Caribbean area. The majority unloaded at U.S.-owned plants in countries bordering the Caribbean Sea and after processing and freezing, the shrimp were exported to the United States.

Operations off foreign coasts were not without hazards. Honduran authorities seized 10 Tampa-based shrimp trawlers during July. Crews of the vessels were charged with violating Honduran laws relating to territorial waters. Craft and crews were released after substantial fines were paid.

Menhaden. A strong demand and excellent prices for industrial products throughout the year partially offset a reduction of 63.6 million pounds in menhaden landings compared with 1963. Much of the decrease was due to the hurricanes, which limited fishing near the close of the season. Estimates of actual lost fishing time ranged from 15 to 25 days. In addition to the winds and rough seas that hampered fishing, storms evidently so dispersed the schools that fishable concentrations were not found for several days after the storms had passed. Oil yields were the best in many years, primarily because larger menhaden predominated in the catches.

Other industrial fish. Landings of 86.9 million pounds were 6.7 million pounds more than in the previous year. Most of the fish was used to produce canned pet food.

Oysters. Gulf production (23.4 million pounds) was only 3 percent less than the 1963 catch. Texas had a new volume record. Although Mississippi and Alabama did not have record productions, the volume exceeded that of the preceding year. Louisiana landings (11.4 million pounds) were only slightly less than in 1963, but the West Coast of Florida (2.8 million pounds) was down 35 percent. During the fall season, however, large quantities of small oysters in Florida's principal producing areas (Apalachicola-Eastpoint) aroused optimism that the decline was only temporary. There was a substantial interchange of oysters among producers and processors in the Gulf States--Louisiana oysters were trucked to Alabama and Florida; Mississippi, to Louisiana; Texas, to Louisiana and Mississippi, etc. Less shell stock, however, was trucked to the Atlantic seaboard.

The peak production months (January-April) had extended periods of reduced demand, which resulted in lower prices to fishermen. The strengthening of the market during the fall brought about a slight increase in prices to the fishermen and to processors of shucked oysters.

Blue crabs. Total Gulf landings continued to decline because of poor catches in Louisiana and Texas. Louisiana production of 5.9 million pounds was the lowest since 1931 and 29 percent less than the previous year. The Alabama volume, however, was 36 percent more than in 1963 and the highest since 1949. Landings at West Coast of Florida and Mississippi ports were considerably better than the previous year, but they were well below the average for the prior 5 years. Despite the reduction in the total crab catch, production of crab meat was greater than in 1963, because more crabs were used for processing than for wholesale or retail live sales. A strong demand for crab meat prevailed most of the year. The average price per pound for the area was \$1.28 which was 13 cents per pound more than in 1963. Some of the price advance was due to increased labor costs following the new minimum wage laws.

There was some activity in developing a soft-shell-crab industry along the northwest coast of Florida. Supplies of "buster" crabs for this industry were caught by pound nets--the first time this type gear had been used in this area.

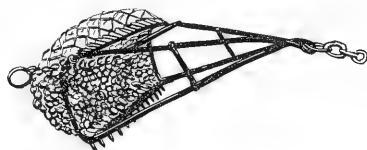
**Edible finfish.** The total volume and value of edible finfish landings changed little from the previous year, but there were variations in the species that made up the greater portion of the landings. A decline of 53 percent in king mackerel and 27 percent in Spanish mackerel resulted from exceptionally heavy concentrations of sharks in Florida waters. These predators so severely damaged the nets that fishing operations ceased earlier than usual. Red drum fishing in Florida and Texas was poor, and the catch declined 31 percent. Mullet, the perennial volume leader of the edible finfish category, increased 5 percent largely because of aggressive marketing campaigns of industry and government agencies.

Red snapper landings (13.3 million pounds) were only 2 percent less than the record established in 1962, and the increasing popularity of this species periodically created a tight supply during the year. In an attempt to meet the increased demand, several new vessels were added to the fleet. In December, vessels located new grounds off the coast of Honduras; although the area was more distant than the Campeche grounds, better catches and somewhat larger fish compensated for the longer running time.

**Activities of foreign vessels.** Both Soviet and Japanese fishing vessels operated in the Gulf during the year. Soviet fishing vessels were sighted several times, and in June, one was seen about 20 miles off Tarpon Springs, Fla. It is generally assumed that the trawlers were engaged in work of an exploratory nature. A few Japanese longliners also fished for tuna along the 1,000-fathom curve south of the Mississippi River delta during the fall.

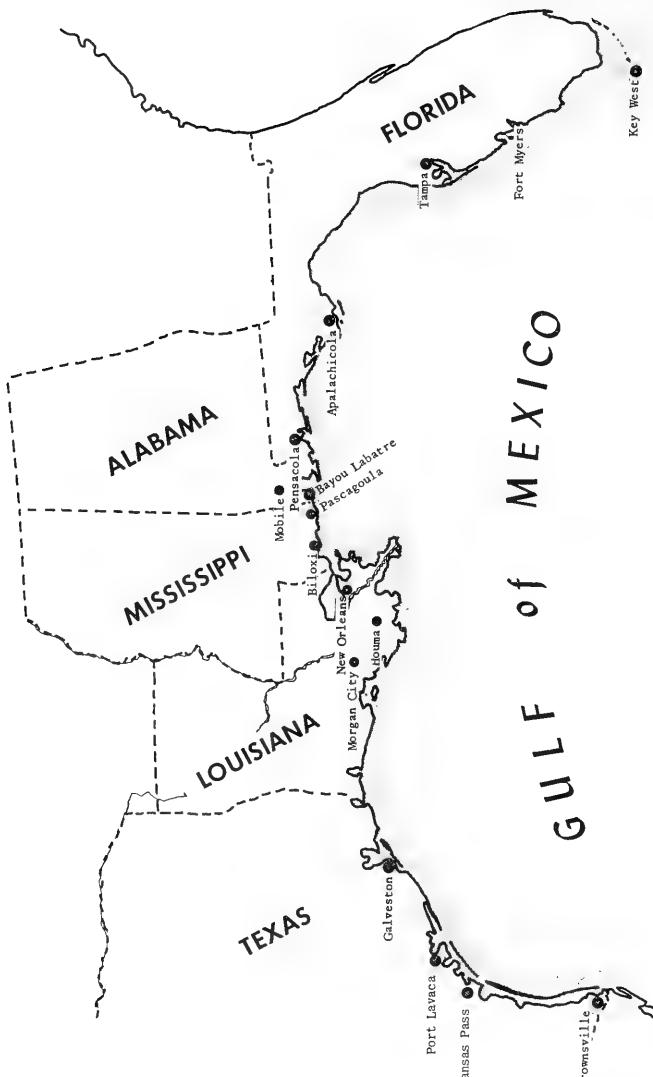
**Other information.** Condensed summary data on operating units and catch by States appearing on the following pages have been previously published in Current Fishery Statistics No. 3929. Data on the catch and operating units of the east coast of Florida and the entire State of Florida may be found in Section 5 of this Digest. Seasonal variations in 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, La. 70130. Specific and detailed accomplishments of the Bureau are contained in Report of the Bureau of Commercial Fisheries, Calendar Year 1964.

**Acknowledgments.** The following organizations assisted the Bureau to collect the data appearing in this Section: Florida State Board of Conservation, Alabama Department of Conservation, Mississippi Marine Conservation Commission, Louisiana Wild Life and Fisheries Commission, and Texas Parks and Wildlife Department.



OYSTER DREDGE

# GULF FISHERIES



**GULF STATES**

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# GULF FISHERIES

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## SECTIONAL SUMMARIES

### SUMMARY OF CATCH, 1964

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

STATE	FISH		SHELLFISH, ETC.		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FLORIDA, WEST COAST . . . . .	69	7	61	17	130	24
ALABAMA . . . . .	5	1	10	3	15	4
MISSISSIPPI . . . . .	320	5	12	3	332	8
LOUISIANA . . . . .	618	11	78	23	696	34
TEXAS . . . . .	73	2	72	27	145	29
TOTAL. . . . .	1,085	26	233	73	1,318	99

NOTE:--FOR THE PURPOSE OF THIS REPORT THE "WEST COAST OF FLORIDA" INCLUDES THE COASTAL COUNTIES FROM MONROE TO ESCAMBIA, INCLUSIVE.

### SUMMARY OF OPERATING UNITS, 1964

ITEM	FLORIDA, WEST COAST	ALABAMA	MISSIS- SISSIPI	LOUIS- IANA	TEXAS	TOTAL, EX- CLUSIVE OF DUPLICA- TION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN: ON VESSELS . . . . .	3,932	773	2,039	5,072	4,469	11,744
ON BOATS AND SHORE:						
REGULAR . . . . .	3,034	742	628	3,752	911	8,990
CASUAL . . . . .	1,616	218	401	1,563	617	4,437
TOTAL . . . . .	8,544	1,733	3,068	10,407	5,997	25,171
VESSELS, MOTOR, GROSS TONNAGE . . . . .	1,278	251	565	1,602	1,479	3,582
BOATS: MOTOR . . . . .	50,070	9,356	24,777	70,825	74,402	151,665
OTHER . . . . .	3,391	564	899	4,269	1,056	10,149
GEAR: HAUL SEINES, COMMON . . . . .	187	113	120	128	47	595
LENGTH, YARDS . . . . .	55,600	1,500	-	3,667	4,600	65,567
PURSE SEINES: MENHADEN . . . . .	-	-	21	50	8	76
LENGTH, YARDS . . . . .	-	-	10,590	21,730	4,000	35,120
OTHER . . . . .	6	-	-	-	-	6
LENGTH, YARDS . . . . .	1,200	-	-	-	-	1,200
OTTER TRAWLS: CRAB . . . . .	5	-	-	-	-	5
YARDS AT MOUTH . . . . .	93	-	-	-	-	93
FISH . . . . .	3	-	109	11	-	123
YARDS AT MOUTH . . . . .	87	-	1,995	185	-	2,268
SHRIMP . . . . .	1,805	617	1,003	5,266	3,304	9,176
YARDS AT MOUTH . . . . .	27,470	9,482	14,044	75,010	47,659	130,234
POUND NETS, CRAB . . . . .	40	-	-	-	-	40
FYKE AND HOOP NETS, FISH, POTS AND TRAPS: CRAB . . . . .	-	420	-	11,109	10	11,539
CRAB: BLUE . . . . .	48,685	6,400	2,930	3,250	8,680	70,145
OTHER . . . . .	20,974	-	-	-	-	20,974
CRAWFISH . . . . .	-	-	-	8,960	-	8,960
FISH . . . . .	-	195	-	464	-	560
LOBSTER, SPINY . . . . .	73,553	-	-	-	-	73,553
GILL NETS: ANCHOR SET OR STAKE . . . . .	4	-	-	197	55	256
SQUARE YARDS . . . . .	2,920	-	-	63,974	36,600	103,494
DRIFT . . . . .	14	-	-	-	-	14
SQUARE YARDS . . . . .	41,100	-	-	-	-	41,100
RUNAROUND . . . . .	1,113	10	-	-	-	1,123
SQUARE YARDS . . . . .	1,657,618	5,600	-	-	-	1,673,218
TRAMMEL NETS . . . . .	297	104	34	113	86	634
SQUARE YARDS . . . . .	361,701	104,000	26,800	39,501	52,372	584,374
LINES: HAND . . . . .	2,979	205	184	680	746	4,561
HOOKS . . . . .	8,448	1,068	982	1,198	4,740	14,647
TROLL . . . . .	1,299	-	-	-	-	1,299
HOOKS . . . . .	1,299	-	-	-	-	1,299
LONG OR SET WITH HOOKS . . . . .	72	4	-	1,613	141	1,830
HOOKS . . . . .	3,800	1,200	-	602,352	167,300	774,652
TROT WITH BAITS . . . . .	11	16	11	750	6	796
BAITS . . . . .	6,600	8,100	5,500	427,000	2,000	449,200
DIP NETS: COMMON . . . . .	66	-	-	37	-	103
DROP . . . . .	160	-	-	29,032	-	29,192

(CONTINUED ON NEXT PAGE)

# GULF FISHERIES

## SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	FLORIDA, WEST COAST	ALABAMA	MISSIS- SIPPI	LOUIS- IANA	TEXAS	TOTAL, EX- CLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
GEAR - CONTINUED:						
CAST NETS . . . . .	15	-	6	-	-	21
SPEARS . . . . .	31	36	20	-	161	256
DREDGES:						
OYSTER, COMMON . . . . .	-	6	464	772	275	1,391
YARDS AT MOUTH . . . . .	-	6	560	880	275	1,570
SCALLOP . . . . .	57	-	-	-	-	57
YARDS AT MOUTH . . . . .	58	-	-	-	-	58
TONGS:						
OYSTER . . . . .	787	666	550	493	32	2,508
OTHER . . . . .	8	-	-	-	-	8
ROD AND REEL . . . . .	1	-	-	-	-	1
BRUSH TRAPS . . . . .	-	-	-	28,275	-	28,275
GRABS, FROG . . . . .	-	-	-	46	-	46
HOOKS, SPONGE . . . . .	46	-	-	-	-	46
DIVING OUTFITS . . . . .	12	-	-	-	-	12

## CATCH BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES . . . . .	433	16	-	-	-	-
AMBERJACK . . . . .	10	(1)	-	-	-	-
BALLYHOO . . . . .	867	125	-	-	-	-
BARRACUDA . . . . .	2	(1)	-	-	-	-
BLUUFISH . . . . .	779	77	11	1	15	1
BLUE RUNNER . . . . .	1,210	28	(1)	(1)	-	-
BUFFALO FISH . . . . .	-	-	68	7	-	-
CABIO . . . . .	10	1	(1)	(1)	1	(1)
CATFISH AND BULLHEADS . . . . .	81	15	45	12	-	-
CIGARFISH . . . . .	502	36	-	-	-	-
CREVALLE . . . . .	537	13	-	-	-	-
CROAKER . . . . .	64	4	3	(1)	(1)	(1)
DOLPHIN . . . . .	22	2	-	-	-	-
DRUM:						
BLACK . . . . .	88	5	17	2	46	3
RED . . . . .	699	90	19	3	50	7
FLOUNDERS . . . . .	204	46	162	25	57	6
GROUPERS . . . . .	7,662	823	305	44	268	29
GRUNTS . . . . .	37	3	-	-	-	-
HOGFISH . . . . .	21	3	-	-	-	-
JEWFISH . . . . .	66	8	118	12	-	-
KING MACKEREL . . . . .	1,314	110	-	-	-	-
KING MULLET OR "KINGFISH". . . . .	232	10	575	29	323	20
MENHADEN . . . . .	54	2	-	-	237,833	3,131
MOLA MOLA . . . . .	105	8	-	-	-	-
MULLETS:						
BLACK . . . . .	34,996	1,928	1,072	56	250	12
SILVER . . . . .	545	33	-	-	-	-
PADDLEFISH . . . . .	-	-	10	1	-	-
PERMIT . . . . .	16	2	-	-	-	-
PIGFISH . . . . .	13	1	-	-	-	-
POMPANO . . . . .	625	368	2	1	(1)	(1)
SCUP OR PORGY . . . . .	54	5	-	-	-	-
SEA CATFISH . . . . .	237	14	13	1	17	1
SEA TROUT OR WEAKFISH:						
SPOTTED . . . . .	2,799	705	65	16	148	31
WHITE . . . . .	43	4	65	3	26	1
SHARKS, UNCLASSIFIED . . . . .	1	(1)	-	-	-	-
SHEEPSHEAD:						
FRESH-WATER . . . . .	-	-	15	2	-	-
SALT-WATER . . . . .	214	19	35	2	49	4

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

## CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FISH - CONTINUED						
SNAPPER:						
MANGROVE . . . . .	325	58	-	-	-	-
MUTTON . . . . .	134	30	-	-	-	-
RED . . . . .	6,532	2,009	2,393	685	1,849	461
VERMILION . . . . .	90	15	-	-	-	-
YELLOWTAIL . . . . .	896	220	-	-	-	-
SPANISH MACKEREL . . . . .	3,880	370	74	8	1	(1)
SWORDFISH . . . . .	353	26	14	1	7	-
STURGEON . . . . .	9	2	(1)	(1)	-	-
TUNA, PENPOUNDER . . . . .	842	19	-	-	-	-
TILEFISH . . . . .	(1)	(1)	-	-	-	-
TRIGGERFISH . . . . .	24	1	-	-	-	-
TRIPLETAIL . . . . .	1	(1)	12	-	-	-
WARSAW . . . . .	159	-	-	-	-	-
UNCLASSIFIED:						
FOR FOOD . . . . .	933	67	-	-	-	-
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	248	6	-	-	78,425	1,349
TOTAL FISH . . . . .	69,040	7,360	5,051	911	319,365	5,059
SHELLFISH, ETC.						
CRABS:						
BLUE:						
HARD . . . . .	14,068	843	1,762	110	1,286	82
SOFT AND PEELER . . . . .	13	7	-	-	2	(1)
STONE . . . . .	752	233	-	-	-	-
TOTAL CRABS . . . . .	14,833	1,083	1,762	110	1,288	82
LOBSTERS, SPINY . . . . .	2,845	1,212	-	-	-	-
SHRIMP . . . . .	39,966	13,322	7,215	2,630	6,416	1,805
CLAMS, HARD, PUBLIC . . . . .	72	24	-	-	-	-
CODS . . . . .	2	1	-	-	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING . . . . .	1,478	413	745	223	3,083	619
FALL . . . . .	1,185	331	186	74	621	222
PRIVATE:						
SPRING . . . . .	71	20	52	18	869	165
FALL . . . . .	59	17	22	9	256	93
TOTAL OYSTERS . . . . .	2,793	781	1,005	324	4,829	1,099
SCALLOPS, BAY . . . . .	18	14	-	-	-	-
SQUID . . . . .	15	1	4	(1)	-	-
TURTLES:						
GREEN . . . . .	30	(1)	4	-	-	-
LOGGERHEAD . . . . .	1	-	-	-	-	-
TOTAL TURTLES . . . . .	31	4	-	-	-	-
SPONGES:						
GRASS . . . . .	2	3	-	-	-	-
SHEEPSWOOL . . . . .	35	348	-	-	-	-
YELLOW . . . . .	7	12	-	-	-	-
TOTAL SHELLFISH, ETC.	60,619	16,805	9,986	3,064	12,533	2,986
GRAND TOTAL . . . . .	129,659	24,165	15,067	3,975	331,898	8,045

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

## GULF FISHERIES

## CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	LOUISIANA		TEXAS		TOTAL	
FISH - CONTINUED	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALEVIKES . . . . .	-	-	-	-	433	16
AMBERJACK . . . . .	-	-	-	-	10	(1)
BALLYHOO . . . . .	-	-	-	-	687	125
BARRACUDA . . . . .	-	-	-	-	2	(1)
BLUUFISH . . . . .	-	-	-	-	805	79
BLUE RUNNER . . . . .	-	-	-	-	1,210	28
BOWFIN . . . . .	3	(1)	-	-	3	(1)
BUFFALO FISH . . . . .	645	92	42	6	955	105
CABIO . . . . .	(1)	(1)	14	1	25	2
CARFISH . . . . .	22	1	3	(1)	25	1
CATFISH AND BULLHEADS . . . . .	6,070	1,425	27	9	6,223	1,461
CIGAR FISH . . . . .	-	-	-	-	502	36
CREVALLE . . . . .	-	-	-	-	537	13
CROAKER . . . . .	20	1	1	(1)	68	5
DOLPHIN . . . . .	-	-	-	-	22	2
DRUM:						
BLACK . . . . .	306	23	1,409	125	1,865	158
RED . . . . .	312	50	447	112	1,527	262
FLOUNDERS . . . . .	190	25	305	77	918	181
CARFISH . . . . .	1,045	51	64	3	1,109	54
GROUPERS . . . . .	13	1	191	19	8,439	916
GRUNTS . . . . .	-	-	-	-	37	3
HOGFISH . . . . .	-	-	-	-	1	3
JEWFISH . . . . .	2	(1)	3	(1)	209	20
KING MACKEREL . . . . .	-	-	-	-	1,314	110
KING WHITING OR "KINGFISH". . . . .	472	27	253	12	1,855	98
MENHADEN . . . . .	599,538	9,046	66,666	822	904,141	13,001
MOJARRA . . . . .	-	-	-	-	105	8
MULLET:						
BLACK . . . . .	22	1	5	(1)	36,345	1,997
SI LVER . . . . .	-	-	-	-	545	33
PADDLEFISH . . . . .	1	(1)	-	-	11	1
PERMIT . . . . .	-	-	-	-	18	2
PIGFISH . . . . .	-	-	-	-	13	1
POMPANO . . . . .	9	6	6	2	642	397
SAMMEL . . . . .	4	(1)	-	-	4	(1)
SCUP OR PORGY . . . . .	-	-	-	-	54	5
SEA CATFISH . . . . .	60	3	41	3	368	22
SEA TROUT OR WEAKEISH:						
SPOTTED . . . . .	290	68	978	252	4,280	1,073
WHITE . . . . .	66	5	-	-	200	13
SHARKS, UNCLASSIFIED . . . . .	3	(1)	-	-	4	(1)
SEEPSHEAD:						
FRESH-WATER . . . . .	159	16	1	(1)	175	18
SALT-WATER . . . . .	138	11	244	27	660	63
SNAPPER:						
MANGROVE . . . . .	-	-	-	-	325	58
MUTTON . . . . .	-	-	-	-	134	30
RED . . . . .	310	78	2,250	631	13,334	3,864
VERMILION . . . . .	-	-	-	-	90	15
YELLOWTAIL . . . . .	-	-	-	-	896	220
SPANISH MACKEREL . . . . .	2	(1)	-	-	3,957	378
SPOT . . . . .	5	{1}	-	-	379	26
STURGEON . . . . .	-	-	-	-	9	2
TENPOUNDER . . . . .	-	-	-	-	642	19
TILEFISH . . . . .	-	-	-	-	(1)	(1)
TRIGGERFISH . . . . .	-	-	-	-	24	1
TRIPE TAIL . . . . .	3	(1)	-	-	4	(1)
WARPEN . . . . .	4	1	30	3	193	16
UNCLASSIFIED:						
FOR FOOD . . . . .	-	-	133	9	1,066	76
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	-	-	19	1	86,858	1,458
TOTAL FISH . . . . .	8,166	102	-	-		
	618,060	11,033	73,152	2,114	1,084,718	26,477
SHELLFISH, ETC.						
CRABS:						
BLUE:						
HARD . . . . .	5,692	379	2,484	175	25,292	1,593
SOFT AND PEELER . . . . .	200	127	(1)	(1)	215	134
STONE . . . . .	-	-	-	-	752	233
TOTAL CRABS . . . . .	5,892	506	2,484	175	26,259	1,956

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GULF FISHERIES

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## CATCH BY STATES, 1964 - Continued

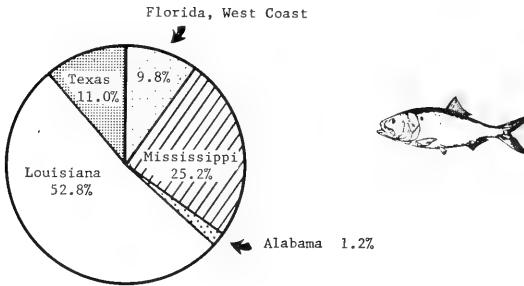
(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	LOUISIANA	TEXAS	TOTAL			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
SHELLFISH, ETC. - CONTINUED						
CRANFISH, FRESH-WATER . . . . .	1,340	236	-	-	1,340	236
LOBSTERS, SPINY . . . . .	-	-	-	-	2,845	1,212
SHRIMP . . . . .	59,382	18,794	66,053	26,144	179,032	62,695
CLAMS, HARD, PUBLIC . . . . .	-	-	-	-	72	24
CONCHS . . . . .	-	-	-	-	2	1
OYSTERS, MARKET:						
PUBLIC:						
SPRING. . . . .	1,194	244	1,901	599	8,401	2,098
FALL. . . . .	132	53	1,365	456	3,489	1,136
PRIVATE:						
SPRING. . . . .	7,808	1,720	66	28	8,866	1,951
FALL. . . . .	2,267	959	25	10	2,629	1,088
TOTAL OYSTERS . . . . .	11,401	2,976	3,357	1,093	23,385	6,273
SCALLOPS, BAY . . . . .	-	-	-	-	18	14
SQUID . . . . .	4	1	24	2	47	4
TERRAPIN. . . . .	6	1	-	-	6	1
TURTLES:						
BABY. . . . .	7	26	-	-	7	28
GREEN . . . . .	3	(1)	-	-	33	4
LOGGERHEAD. . . . .	-	-	-	-	1	(1)
SNAPPER . . . . .	10	2	-	-	10	2
TOTAL TURTLES . . . . .	20	30	-	-	51	34
FROGS . . . . .	15	6	-	-	15	6
SPONGES:						
GRASS. . . . .	-	-	-	-	2	3
SHEEPSHOOL. . . . .	-	-	-	-	35	348
YELLOW. . . . .	-	-	-	-	7	12
TOTAL SHELLFISH, ETC.	78,060	22,552	71,918	27,414	233,116	72,821
GRAND TOTAL . . . . .	696,140	33,585	145,070	29,528	1,317,834	99,298

1/ LESS THAN 500 POUNDS OR \$500.

NOTE:--STATISTICS ON THE CATCH ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS AND SPONGES. CLAMS, CONCHS, AND OYSTERS ARE REPORTED IN WEIGHT OF TOTAL MEATS. SCALLOPS ARE REPORTED IN WEIGHT OF EDIBLE MEATS. SPONGES ARE REPORTED IN MARKETED WEIGHT.

## GULF STATES CATCH, 1964



# GULF FISHERIES

## CATCH OF CERTAIN SHELLFISH, 1964

(NUMBER AND BUSHELS)

SPECIES		FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRABS:							
BLUE:							
HARD . . . . .	NUMBER	29,121,795	\$842,704	3,523,400	\$110,335	3,703,680	\$81,610
SOFT AND PEELER.	DO	45,630	6,567	-	-	5,100	252
STONE. . . . .	DO	751,700	232,986	-	-	-	-
CLAMS, HARD, PUBLIC.	U.S. STD. BUSHEL	6,435	23,682	-	-	-	-
CONCHS . . . . .	DO	129	536	-	-	-	-
OYSTERS, MARKET:							
PUBLIC:							
SPRING . . . . .	DO	350,440	412,886	177,544	223,410	759,285	619,028
FALL. . . . .	DO	362,910	331,856	43,230	73,744	157,165	221,660
PRIVATE:							
SPRING . . . . .	DO	16,622	19,796	12,452	18,455	213,940	164,632
FALL . . . . .	DO	17,243	16,604	5,186	8,516	64,937	93,416
SCALLOPS, BAY. . . . .	DO	3,411	13,752	-	-	-	-

SPECIES		LOUISIANA		TEXAS		TOTAL	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CRABS:							
BLUE:							
HARD . . . . .	NUMBER	12,521,740	\$379,214	4,248,153	\$175,477	53,118,768	\$1,589,340
SOFT AND PEELER.	DO	599,700	126,940	1,200	75	651,630	133,834
STONE. . . . .	DO	-	-	-	-	751,700	232,986
CLAMS, HARD, PUBLIC.	U.S. STD. BUSHEL	-	-	-	-	8,435	23,682
CONCHS . . . . .	DO	-	-	-	-	129	536
OYSTERS, MARKET:							
PUBLIC:							
SPRING . . . . .	DO	232,238	244,105	417,519	598,491	1,937,026	2,097,920
FALL . . . . .	DO	34,593	52,693	308,673	456,158	906,571	1,136,311
PRIVATE:							
SPRING . . . . .	DO	1,534,126	1,719,851	18,417	27,635	1,795,557	1,950,369
FALL . . . . .	DO	604,507	959,303	8,786	10,298	700,659	1,068,137
SCALLOPS, BAY. . . . .	DO	-	-	-	-	3,411	13,752

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

## AVERAGE WEIGHTS OF CERTAIN SHELLFISH, 1964

SPECIES		FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI		LOUISIANA		TEXAS	
		QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
CRABS:											
BLUE:											
HARD . . . . .	NUMBER PER POUND	2.07	2.00	2.88	2.20	2.20	1.71				
SOFT AND PEELER.	DO	3.51	-	3.00	3.00	-	2.40				
STONE. . . . .	DO	1.00	-	-	-	-	-				
CLAMS, HARD, PUBLIC.	LBS. MEATS PER U.S. STD. BUSHEL	8.50	-	-	-	-	-				
CONCHS . . . . .	DO	14.00	-	-	-	-	-				
OYSTERS, MARKET:											
PUBLIC:											
SPRING . . . . .	DO	4.22	4.20	4.06	5.14	4.55					
FALL . . . . .	DO	3.26	4.29	3.95	3.81	4.42					
PRIVATE:											
SPRING . . . . .	DO	4.25	4.20	4.06	5.09	3.60					
FALL . . . . .	DO	3.44	4.29	3.95	3.75	2.80					
SCALLOPS, BAY. . . . .	DO	5.39	-	-	-	-	-				

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

# GULF FISHERIES

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## MANUFACTURED FISHERY PRODUCTS, 1964

ITEM	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
COD, FILLETS, BREADED FROZEN . . . . .	POUNDS DO	{1}	{1}	-	-	-
FLOWERER FILLETS, FROZEN . . .	DO	{1}	{1}	-	-	-
GROUPER, FRESH AND FROZEN: FILLETS . . . . .	DO	353,592	\$159,683	{1}	{1}	{1}
STEAKS . . . . .	DO	724,028	268,546	{1}	{1}	{1}
MENHADEN: MEAL AND SCRAP . . . . .	TONS 1,000	-	-	-	24,231	\$2,956,182
SOLUBLES . . . . .	POUNDS TONS	-	-	-	22,184	1,574,343
MULLET: FILLETS, FRESH AND FROZEN. . . .	POUNDS CANNED . . . . .	STANDARD CASES	{1} {1}	-	11,777	706,632
SALTED: FISH . . . . .	POUNDS	297,900	33,128	-	-	-
ROE . . . . .	DO	18,750	14,189	-	-	-
CURED AND REFRIGERATED . . .	DO	{1}	{1}	-	-	-
SMOKED . . . . .	DO	{1}	{1}	-	-	-
SEA TROUT FILLETS, FROZEN . . .	DO	{1}	{1}	-	-	-
SNAPPER, RED, FRESH AND FROZEN . . . . .	DO	101,781	87,409	{1} {1}	-	-
FISHES: FILLETS . . . . .	DO	128,800	71,980	{1}	-	-
STEAKS . . . . .	DO	801,820	265,741	-	-	-
SPANISH MACKEREL FILLETS, FROZEN . . . . .	DO	801,820	265,741	-	-	-
CRABS: BLUE: COOKED MEAT, FRESH . . . .	DO	1,840,517	2,444,476	305,862	\$383,198	185,100
SPECIALTIES, FROZEN {CAKES, BURGERS, DEVILED, STUFFED, ETC.}. . . . .	DO	43,000	38,650	{1} {1}	{1} {1}	{1} {1}
CANNED, MEAT . . . . .	STANDARD CASES	-	-	{1} {1}	-	6,328
STONE, CLAWS, COOKED, FROZEN . . . . .	POUNDS	38,242	34,392	-	-	-
BACK SHELLS, CLEANED AND POLISHED . . . . .	TONS	{1} {1}	-	-	-	-
MEAL AND SCRAP {BISQUE AND BAIT} . . . . .	STANDARD CASES	{1} {1}	-	-	-	-
LOBSTERS, SPINY: WHOLE COOKED, FROZEN . . . .	POUNDS	{1} {1}	-	-	-	-
TAILS, RAW, FROZEN . . . .	DO	{1} {1}	-	-	-	-
SHRIMP: FRESH AND FROZEN: RAW, HEADLESS . . . . .	DO	5,465,746	4,578,642	2,314,353	1,805,315	{1} {1}
PEELED (INCLUDING DEVILLED), RAW . . . . .	DO	7,836,928	9,168,996	{1} {1}	{1} {1}	{1} {1}
BREADED, RAW AND COOKED.	DO	19,734,332	14,481,590	{1} {1}	{1} {1}	{1} {1}
SPECIALTIES, FROZEN {BURGERS, STUFFED, GUMBO, ETC.}. . . . .	DO	{1} {1}	{1} {1}	{1} {1}	{1} {1}	{1} {1}
CANNED, MEAT . . . . .	STANDARD CASES	-	-	-	-	-
CLAMS, HARD, SHUCKED, FRESH .	GALLONS	{1} {1}	{1} {1}	-	81,953	1,747,108
CONCH CHOWDER, CANNED. . . .	STANDARD CASES	1,159	4,646	-	-	-
OYSTERS: SHUCKED, FRESH . . . . .	GALLONS	273,674	1,591,377	193,797	1,397,831	136,980
BREADED, FROZEN . . . . .	POUNDS	347,080	348,678	-	-	890,355
CANNED MEATS . . . . .	STANDARD CASES	-	-	{1} {1}	{1} {1}	108,544
SCALLOPS: BAY, SHUCKED, FRESH . . . .	GALLONS	2,268	24,840	-	-	-
SEA, BREADED, FROZEN . . .	POUNDS	96,860	70,554	-	-	-
TURTLES, CANNED SPECIALTIES, (SOUP AND CHOWDER). . . . .	STANDARD CASES	312	4,410	-	-	-
UNCLASSIFIED PRODUCTS: FRESH AND FROZEN, PACKAGED, FILLETS, STEAKS, STICKS, PORTIONS AND OTHER FISH AND SHELLFISH . . . . .	POUNDS	2,875,354	1,411,358	4,683,319	3,847,223	2,403,000
CANNED ANIMAL FOOD . . . . .	STANDARD CASES	-	-	-	-	1,903,294
OTHER FISH AND SHELL- FISH . . . . .	DO	{2} {2}	{2} {2}	{2} {2}	{2} {2}	-
CURED . . . . .	POUNDS	-	70,500	-	{2} {2}	-
INDUSTRIAL . . . . .	-	-	-	-	-	{2} {2}
TOTAL. . . . .	-	-	35,193,684	-	7,433,567	-
					-	20,016,308

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

## GULF FISHERIES

## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM	LOUISIANA		TEXAS	
	QUANTITY	VALUE	QUANTITY	VALUE
CATFISH FILLETS, FROZEN . . . . .	POUNDS	(1)	(1)	-
COD, FREEZE-DRIED . . . . .	DO	-	(1)	(1)
FLounder, frozen, SPECIALTIES (STUFFED) . . . . .	DO	(1)	(1)	(1)
MENHADEN:				
MEAL AND SCRAP . . . . .	TONS	63,351	\$7,780,981	(1)
OIL . . . . .	TONS	76,990	5,960,534	(1)
SOLUBLES . . . . .	TONS	22,270	1,334,413	(1)
CRABS:				
BLUE:				
COOKED MEAT:				
FRESH . . . . .	POUNDS	321,268	406,061	309,200
FREEZEN . . . . .	DO	(1)	(1)	\$349,-
SPECIALTIES, FROZEN (CAKES, BURGERS, DEVILED, STUFFED, ETC.) . . . . .	DO	269,896	184,490	(1)
CANNED:				
MEAT . . . . .	STANDARD CASES	(1)	(1)	-
SPECIALTIES (BISQUE) . . . . .	DO	(1)	(1)	-
KING, MEAT, FREEZE-DRIED . . . . .	POUNDS	-	-	(1)
CRAWFISH:				
MEAT, COOKED FRESH . . . . .	DO	(1)	(1)	-
SPECIALTIES:				
FRESH AND FROZEN (BISQUE) . . . . .	DO	(1)	(1)	-
CANNED (BISQUE AND BAIT) . . . . .	STANDARD CASES	912	21,066	-
SHRIMP:				
FRESH AND FROZEN:				
RAW, HEADLESS . . . . .	POUNDS	21,078,010	16,650,159	26,437,100
PEELED (INCLUDING DEVENEED):				
RAW . . . . .	DO	957,364	868,051	8,168,000
COOKED . . . . .	DO	1,393,562	2,242,685	(1)
BREADED, RAW AND COOKED . . . . .	DO	3,835,867	2,480,463	26,685,800
SPECIALTIES, FROZEN (BURGERS, STUFFED, GUMBO, ETC.) . . . . .	DO	338,151	273,535	(1)
CANNED:				
MEAT . . . . .	STANDARD CASES	505,903	10,181,626	(1)
SPECIALTIES (GUMBO, STEW, ETC.) . . . . .	DO	4,001	54,220	-
FREEZE-DRIED . . . . .	POUNDS	-	-	(1)
SUN-DRIED . . . . .	DO	226,166	460,902	-
MEAL AND SCRAP . . . . .	TONS	(1)	(1)	-
OYSTERS:				
SHUCKED:				
FRESH . . . . .	GALLONS	573,450	3,591,258	252,631
FROZEN . . . . .	POUNDS	-	-	(1)
BREADED, FROZEN . . . . .	DO	-	-	(1)
SPECIALTIES, FROZEN (DRESSINGS, AND STUFFED) . . . . .	DO	23,607	20,383	-
CANNED:				
MEATS . . . . .	STANDARD CASES	197,789	2,344,790	-
SPECIALTIES (SOUP) . . . . .	DO	(1)	(1)	-
SHELL LIME AND GRIT . . . . .	TONS	-	-	(1)
TURTLES, CANNED, SPECIALTIES (SOUP AND CHOWDER) . . . . .	STANDARD CASES	585	8,887	-
UNCLASSIFIED:				
FRESH AND FROZEN PACKAGED: FILLETS, STEAKS, STICKS, PORTIONS AND OTHER FISH AND SHELLFISH . . . . .	POUNDS	318,766	278,974	1,278,278
CANNED, OTHER FISH AND SHELLFISH . . . . .	STANDARD CASES	1,774	29,978	(2)
CURED . . . . .	POUNDS	-	(2)	{2}
INDUSTRIAL . . . . .		(2)	-	2,805,554
TOTAL . . . . .	-	-	55,173,556	-
			-	55,414,016

1/ INCLUDED WITH UNCLASSIFIED.

2/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH.

NOTE:--SOME OF THE 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.



# GULF FISHERIES

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## SUMMARY OF MANUFACTURED PRODUCTS, 1964

(VALUE IN THOUSANDS OF DOLLARS)

ITEM		QUANTITY	VALUE
PACKAGED, FRESH AND FROZEN:			
NOT BREADED:			
FISH . . . . .	1,000 POUNDS	2,485	1,030
DO . . . . .	DO	93,044	81,887
SHELLFISH . . . . .	DO	56,065	37,959
BREADED, FISH AND SHELLFISH . . . . .			
SPECIALTIES, FISH AND SHELLFISH (NOT BREADED AND BREADED) . . . . .	DO	2,097	1,700
CANNED . . . . .	1,000 STANDARD CASES	3,314	24,793
CURED . . . . .	1,000 POUNDS	732	1,031
INDUSTRIAL . . . . .	-	-	24,833
TOTAL . . . . .	-	-	173,233

## VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964

(THOUSANDS OF DOLLARS)

STATE	VALUE
FLORIDA, WEST COAST . . . . .	35,194
ALABAMA . . . . .	7,434
MISSISSIPPI . . . . .	20,018
LOUISIANA . . . . .	55,173
TEXAS . . . . .	55,414
TOTAL . . . . .	173,233

## WHOLESALING AND MANUFACTURING, 1964

ITEM	FLORIDA, WEST COAST	ALABAMA	MISSIS- SIPPI	LOUISIANA	TEXAS	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:						
ESTABLISHMENTS . . . . .	311	57	58	212	142	780
PERSONS ENGAGED:						
AVERAGE FOR SEASON . . . . .	3,906	1,135	1,770	5,327	4,786	16,924
AVERAGE FOR YEAR . . . . .	3,162	650	1,212	3,290	3,490	11,804



**GULF FISHERIES**  
**FLORIDA, WEST COAST**  
**OPERATING UNITS BY GEAR, 1964**

ITEM	HAUL SEINES, COMMON	PURSE SEINES	OTTER TRAWLS		
			CRAB	FISH	SHRIMP
FISHERMEN:					
ON VESSELS . . . . .	100	-	10	9	2,254
ON BOATS AND SHORE:					
REGULAR . . . . .	247	8	-	-	160
CASUAL . . . . .	45	4	-	-	12
TOTAL . . . . .	392	12	10	9	2,426
VESSELS, MOTOR . . . . .	14	-	5	3	901
GROSS TONNAGE . . . . .	163	-	67	128	42,659
BOATS:					
MOTOR . . . . .	63	6	-	-	107
OTHER . . . . .	38	-	-	-	-
GEAR:					
NUMBER . . . . .	61	6	5	3	1,805
LENGTH, YARDS . . . . .	55,600	1,200	-	-	-
YARDS AT MOUTH . . . . .	-	-	93	87	27,470
ITEM	POUND NETS, CRAB	POTS AND TRAPS			LOBSTER, SPINY
		CRAB		NUMBER	
		BLUE	OTHER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS . . . . .	-	6	-	4	68
ON BOATS AND SHORE:					
REGULAR . . . . .	2	287	-	89	236
CASUAL . . . . .	-	19	-	17	104
TOTAL . . . . .	2	312	-	110	410
VESSELS, MOTOR . . . . .	-	3	-	2	34
GROSS TONNAGE . . . . .	-	30	-	36	358
BOATS, MOTOR . . . . .	1	273	-	78	214
GEAR, NUMBER . . . . .	40	48,665	-	20,974	73,553
ITEM	GILL NETS			TRAMMEL NETS	
	ANCHOR, SET OR STAKE	DRIFT	RUNA- ROUND		
				NUMBER	NUMBER
FISHERMEN:					
ON VESSELS . . . . .	-	18	-	205	41
ON BOATS AND SHORE:					
REGULAR . . . . .	6	13	-	1,169	421
CASUAL . . . . .	1	1	-	149	32
TOTAL . . . . .	7	32	-	1,523	494
VESSELS, MOTOR . . . . .	-	6	-	63	13
GROSS TONNAGE . . . . .	-	61	-	760	136
BOATS:					
MOTOR . . . . .	4	8	-	954	275
OTHER . . . . .	-	-	-	96	9
GEAR:					
NUMBER . . . . .	4	14	-	1,113	297
SQUARE YARDS . . . . .	2,920	41,100	-	1,667,616	361,701
ITEM	LINES				
	HAND	TROLL	LONG OR SET WITH HOOKS	TROT WITH BAITS	
FISHERMEN:					
ON VESSELS . . . . .	1,370	61	-	-	-
ON BOATS AND SHORE:					
REGULAR . . . . .	453	282	15	14	
CASUAL . . . . .	1,125	384	8	-	
TOTAL . . . . .	2,958	727	23	14	
VESSELS, MOTOR . . . . .	334	31	-	-	-
GROSS TONNAGE . . . . .	8,441	350	-	-	-
BOATS, MOTOR . . . . .	1,178	420	22	11	
GEAR:					
NUMBER . . . . .	2,979	1,299	72	11	
HOOKS OR BAITS . . . . .	6,446	1,299	3,800	6,600	

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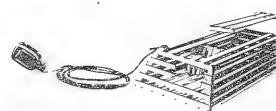
# GULF FISHERIES

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## FLORIDA, WEST COAST

### OPERATING UNITS BY GEAR, 1964 - Continued

ITEM	DIP NETS		CAST NETS	SPEARS
	COMMON	DROP		
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:				
REGULAR . . . . .	44	-	7	24
CASUAL . . . . .	22	29	6	7
TOTAL . . . . .	66	29	15	31
BOATS, MOTOR, GEAR, NUMBER:	66	29	15	31
	66	150	15	31
ITEM	DREDGES, SCALLOP	TONGS		RAKES
		OYSTER	OTHER	
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS . . . . .	2	19	-	-
ON BOATS AND SHORE:				
REGULAR . . . . .	32	720	8	1
CASUAL . . . . .	7	48	-	-
TOTAL . . . . .	41	767	8	1
VESSELS, MOTOR, GROSS TONNAGE:	1	9	-	-
BOATS:	12	84	-	-
MOTOR . . . . .	23	613	8	1
OTHER . . . . .		1	-	-
GEAR:				
NUMBER . . . . .	57	767	8	1
YARDS AT MOUTH . . . . .	58		-	-
ITEM	HOOKS, SPONGE	DIVING OUTFITS	BY HAND	
			OYSTER	OTHER
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS . . . . .	42	80	-	-
ON BOATS AND SHORE:				
REGULAR . . . . .	57	-	28	38
CASUAL . . . . .	15	-	9	46
TOTAL . . . . .	114	80	37	84
VESSELS, MOTOR, GROSS TONNAGE:	7	12	-	-
BOATS:	74	170	-	-
MOTOR . . . . .	15	-	32	46
OTHER . . . . .	35	-	2	35
GEAR, NUMBER . . . . .	46	12	-	-
				TOTAL, EX- CLUSIVELY OF DUPLICATION



SPINY LOBSTER TRAP

## GULF FISHERIES

## FLORIDA, WEST COAST - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		PURSE SEINES		OTTER TRAWLS	
					CRAB	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	205,100	\$7,794	-	-	-	-
AMBERJACK . . . . .	100	5	-	-	-	-
BALLYHOO . . . . .	-	-	887,300	\$124,660	-	-
BLUEROUGH . . . . .	264,500	26,171	-	-	-	-
BLUE FISH . . . . .	950,300	21,732	-	-	-	-
CIGARFISH . . . . .	499,900	35,696	-	-	-	-
CREVALLA . . . . .	269,800	6,745	-	-	-	-
CROAKER . . . . .	18,900	1,267	-	-	-	-
DRUM:						
BLACK . . . . .	12,800	678	-	-	-	-
RED . . . . .	145,200	18,732	-	-	-	-
FLOUNDERS . . . . .	14,600	3,331	-	-	-	-
GRUNTS . . . . .	200	14	-	-	-	-
KING MACKEREL . . . . .	50,800	2,587	-	-	-	-
KING WHITING OR "KINGFISH" . . . . .	13,800	607	-	-	-	-
MENHADEN . . . . .	1,000	29	-	-	-	-
MOJARRA . . . . .	52,400	3,631	-	-	-	-
MULLET:						
BLACK . . . . .	8,040,000	442,200	-	-	-	-
SILVER . . . . .	14,300	871	-	-	-	-
PERMIT . . . . .	3,600	401	-	-	-	-
PIGFISH . . . . .	500	32	-	-	-	-
POMPANO . . . . .	24,600	15,276	-	-	-	-
SEA CATFISH . . . . .	153,500	9,333	-	-	-	-
SEA TROUT OR WEAKEFISH:						
SPOTTED . . . . .	327,800	82,608	-	-	-	-
WHITE . . . . .	5,300	642	-	-	-	-
SHEEPSHEAD, SALT-WATER	75,000	6,601	-	-	-	-
SNAPPER, MANGROVE	1,300	234	-	-	-	-
SPANISH MACKEREL	227,900	21,649	-	-	-	-
SPOT . . . . .	79,200	5,861	-	-	-	-
TENPOUNDER . . . . .	712,500	15,931	-	-	-	-
TRIPLETAIL . . . . .	500	25	-	-	-	-
UNCLASSIFIED:						
FOR FOOD . . . . .	170,100	12,201	-	-	-	-
BAIT, REDUCTION, AND						
ANIMAL FOOD . . . . .	77,000	1,964	-	-	-	-
CRABS, BLUE, HARD . . . . .	-	-	-	-	74,900	\$4,494
TOTAL . . . . .	12,393,700	745,268	887,300	124,660	74,900	4,494

## OTTER TRAWLS - CONTINUED

SPECIES	FISH		SHRIMP		POUND NETS, CRAB	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CROAKER . . . . .	-	-	4,600	\$313	-	-
FLOUNDERS . . . . .	-	-	77,300	17,394	-	-
GROUPERS . . . . .	17,700	\$1,894	-	-	-	-
KING WHITING OR "KINGFISH" . . . . .	-	-	191,800	8,441	-	-
SEA CATFISH . . . . .	-	-	30,900	1,686	-	-
SNAPPER:						
RED . . . . .	76,700	23,623	-	-	-	-
VERMILION . . . . .	500	84	-	-	-	-
SPOT . . . . .	-	-	57,300	4,332	-	-
WARSAW . . . . .	2,000	156	-	-	-	-
UNCLASSIFIED:						
FOR FOOD . . . . .	-	-	5,100	372	-	-
BAIT, REDUCTION, AND						
ANIMAL FOOD . . . . .	-	-	2,500	65	-	-
CRABS:						
BLUE:						
LORD . . . . .	-	-	23,300	1,398	-	-
SOFT AND PEELER . . . . .	-	-	-	-	11,100	\$5,609
LOBSTERS, SPINY . . . . .	-	-	11,500	4,899	-	-
SHRIMP . . . . .	-	-	39,965,800	13,322,273	-	-
SQUID . . . . .	-	-	14,700	1,491	-	-
TOTAL . . . . .	96,900	25,757	40,384,800	13,362,864	11,100	5,609

(CONTINUED ON NEXT PAGE)

# GULF FISHERIES

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## FLORIDA, WEST COAST - CATCH BY GEAR, 1964 - Continued

SPECIES	POTS AND TRAPS					
	CRAB				SPINY LOBSTER	
	BLUE	OTHER	POUNDS	VALUE		
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
GROUPERS . . . . .	-	-	-	-	10,000	\$1,071
CRABS:						
BLUE:						
HARD . . . . .	13,625,800	816,142	-	-	-	-
SOFT AND PEELER. . . . .	1,900	958	-	-	-	-
STONE. . . . .	2,300	713	745,900	231,188	3,500	1,085
LOBSTER, SPINY . . . . .	-	-	-	-	2,804,400	1,194,110
TOTAL. . . . .	13,630,000	817,813	745,900	231,188	2,817,900	1,196,266
GILL NETS						
SPECIES	ANCHOR, SET OR STAKE		DRIFT		RUNAROUND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	-	-	-	-	210,600	\$8,049
AMBERJACK. . . . .	-	-	-	-	100	5
BLUETFISH . . . . .	-	-	40,500	\$4,009	352,700	34,920
BLUE RUNNER. . . . .	-	-	2,500	58	184,400	4,242
CABIO. . . . .	-	-	-	-	400	24
CREVALLE . . . . .	-	-	500	12	181,300	4,533
DOLM. . . . .	-	-	-	-	27,600	1,855
BLACK . . . . .	-	-	-	-	40,000	1,999
RED. . . . .	-	-	-	-	423,200	54,787
FLOUNDERS . . . . .	-	-	-	-	33,600	7,562
GRUNTS . . . . .	-	-	-	-	200	14
KING MACKEREL. . . . .	-	-	25,000	2,100	1,031,900	86,412
KING WHITING OR "KINGFISH"	-	-	-	-	17,900	786
MENHADEN . . . . .	-	-	-	-	74,500	2,154
MOJARRA. . . . .	-	-	-	-	42,300	3,130
MULLET:						
BLACK . . . . .	-	-	-	-	24,980,300	1,377,417
SILVER . . . . .	-	-	-	-	522,500	31,756
PERC. . . . .	-	-	-	-	4,800	533
POMFISH. . . . .	-	-	-	-	150	59
POMPANO. . . . .	-	-	2,000	1,241	54,600	33,904
SEA CATFISH. . . . .	-	-	-	-	40,200	2,451
SEA TROUT OR WEAKFISH:						
SPOTTED . . . . .	-	-	4,500	1,134	1,685,900	425,246
WHITE. . . . .	-	-	-	-	22,300	2,295
SHARKS . . . . .	-	-	-	-	700	52
SHEEPSHEAD, SALT-WATER	-	-	-	-	91,400	7,989
SNAPPER, MANGROVE.	-	-	-	-	12,500	2,239
SPANISH MACKEREL . . . . .	-	-	42,000	3,990	3,425,800	326,592
SPOT . . . . .	-	-	-	-	156,100	11,551
STURGEON . . . . .	8,100	\$1,645	800	163	-	-
TRIPLINGER . . . . .	-	-	-	-	122,500	2,695
TRIPPLERAIL . . . . .	-	-	-	-	200	10
UNCLASSIFIED:						
FOR FOOD . . . . .	-	-	2,000	126	553,700	39,913
BAIT, REDUCTION, AND	-	-	-	-	161,700	4,139
ANIMAL FOOD . . . . .	-	-	-	-	-	-
TURTLES:						
GREEN . . . . .	27,500	3,971	-	-	2,100	303
LOGGERHEAD . . . . .	-	-	-	-	1,100	112
TOTAL. . . . .	35,600	5,616	119,800	12,833	34,464,900	2,480,028
SPECIES	TRAMMEL NETS		LINES			
	HAND		TROLL			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	17,600	\$669	-	-	-	-
AMBERJACK. . . . .	-	-	9,600	\$439	-	-
BARRACUDA. . . . .	-	-	1,200	58	600	\$30
BLUETFISH . . . . .	75,400	7,467	36,000	3,564	9,700	953
BLUE RUNNER. . . . .	45,500	1,048	26,400	608	1,200	28
CABIO. . . . .	-	-	10,100	595	-	-
CIGARFISH. . . . .	1,900	137	-	-	-	-
CREVALLE . . . . .	11,400	284	70,200	1,702	3,500	90
CROAKER. . . . .	12,300	836	1,100	76	-	-
DOLPHIN. . . . .	-	-	300	22	21,700	1,554
DRUM:						
BLACK . . . . .	20,300	1,075	14,800	749	500	27
RED. . . . .	36,800	5,004	92,000	11,869	-	-

(CONTINUED ON NEXT PAGE)

# GULF FISHERIES

## FLORIDA, WEST COAST - CATCH BY GEAR, 1964 - Continued

SPECIES	TRAMMEL NETS		LINES			
			HAND		TROLL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS.	16,300	\$3,669	5,600	\$1,260	-	-
GROUPERS	-	-	7,634,500	\$19,942	-	-
GRUNTS	-	-	37,000	2,510	-	-
HOGFISH	-	-	21,500	3,122	-	-
JEWFISH	-	-	61,200	7,537	-	-
KING MACKEREL	-	-	26,300	2,374	197,900	\$16,624
KING WHITING OR "KINGFISH"	6,200	271	2,400	104	-	-
MENHADEN	8,500	247	-	-	-	-
MOJARRA	500	37	9,900	732	-	-
MULLET:						
BLACK.	1,963,200	107,975	-	-	-	-
SILVER	7,200	440	-	-	-	-
PERMIT	-	-	9,200	1,006	-	-
PIGFISH	4,700	301	2,400	153	-	-
POMFRET	541,000	335,555	2,700	1,676	-	-
SCUP OR PORGY	-	-	53,600	4,914	-	-
SEA CATFISH	8,600	536	3,200	193	-	-
SEA TROUT OR WEAKFISH:						
SPOTTED.	392,100	98,809	349,000	87,947	39,900	10,053
WHITE.	5,700	579	7,600	774	1,000	102
SHEEPSHEAD, SALT-WATER	8,300	731	38,900	3,424	-	-
SNAPPER:						
MANGROVE	-	-	311,100	55,657	-	-
MUTTON	-	-	134,300	30,017	-	-
RED	-	-	6,455,500	1,985,705	-	-
VERMILION	-	-	89,000	15,020	-	-
YELLOWTAIL	-	-	696,500	219,799	-	-
SPANISH MACKEREL	25,000	2,470	69,900	6,547	89,000	8,457
SPOT	42,600	3,166	17,400	1,288	-	-
TENPOUNDER	1,900	42	4,600	100	-	-
TILEFISH	-	-	400	39	-	-
TRIGGERFISH	-	-	24,000	826	-	-
TRIPLATETAIL	300	14	156,600	12,205	-	-
WARSAW	-	-	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	13,200	957	168,700	13,768	-	-
BAIT, REDUCTION, AND	-	-	-	-	-	-
ANIMAL FOOD	6,100	156	600	16	-	-
<b>TOTAL.</b>	<b>3,276,000</b>	<b>572,477</b>	<b>16,901,300</b>	<b>3,298,529</b>	<b>365,000</b>	<b>37,926</b>

SPECIES	LINES - CONTINUED				DIP NETS			
	LONG OR SET WITH HOOKS		TROT WITH BAITS		COMMON		DROP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH AND BULLHEADS.	81,000	\$14,737	-	-	-	-	-	-
CRABS, BLUE, HARD.	-	-	344,500	\$20,670	14,500	\$5,177	15,000	\$6,390
<b>TOTAL.</b>	<b>81,000</b>	<b>14,737</b>	<b>344,500</b>	<b>20,670</b>	<b>14,500</b>	<b>6,177</b>	<b>15,000</b>	<b>6,390</b>

SPECIES	CAST NETS		SPEARS		DREDGES, SCALLOP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
	-	-	56,800	\$12,808	-	-
FLOUNDERS.	-	-	-	-	-	-
MULLET:						
BLACK.	12,100	\$666	-	-	-	-
SILVER	1,000	61	-	-	-	-
SEA TROUT OR WEAKFISH:						
SPOTTED	100	25	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	200	15	-	-	-	-
BAIT, REDUCTION, AND	-	-	-	-	-	-
ANIMAL FOOD	200	5	-	-	-	-
SCALLOPS, BAY.	-	-	-	-	18,200	\$13,602
<b>TOTAL.</b>	<b>13,600</b>	<b>772</b>	<b>56,800</b>	<b>12,808</b>	<b>18,200</b>	<b>13,602</b>

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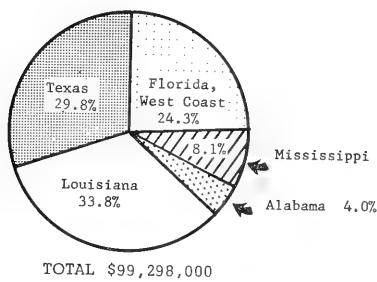
# GULF FISHERIES

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## FLORIDA, WEST COAST - CATCH BY GEAR, 1964 - Continued

SPECIES	TONGS				RAKES		HOOKS, SPONGE	
	OYSTER		OTHER					
CLAMS, HARD, PUBLIC. . . . .	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
OYSTERS, MARKET;			13,500	\$4,495	4,300	\$1,432	-	-
PUBLIC:								
SPRING . . . . .	1,464,600	\$409,274	-	-	-	-	-	-
FALL . . . . .	1,173,100	328,468	-	-	-	-	-	-
PRIVATE:								
SPRING . . . . .	70,700	19,796	-	-	-	-	-	-
FALL . . . . .	59,300	16,604	-	-	-	-	-	-
SPONGES:								
GRASS . . . . .	-	-	-	-	-	-	2,000	\$2,694
SHEEPSWOOL . . . . .	-	-	-	-	-	-	11,000	75,211
YELLOW . . . . .	-	-	-	-	-	-	6,300	10,093
TOTAL. . . . .	2,767,700	774,142	13,500	4,495	4,300	1,432	19,300	87,998
SPECIES	DIVING OUTFITS, SPONGE			BY HAND				
				OYSTER		OTHER		
CLAMS, HARD, PUBLIC. . . . .	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CONCHS . . . . .	-	-	-	-	-	-	53,900	\$17,955
OYSTERS, MARKET, PUBLIC:							1,800	536
SPRING . . . . .	-	-	12,900	\$3,612	-	-	-	-
FALL . . . . .	-	-	12,100	3,368	-	-	200	150
SCALLOPS, BAY. . . . .	-	-	-	-	-	-	-	-
SPONGES:								
SHEEPSWOOL . . . . .	23,900	\$272,525	-	-	-	-	-	-
YELLOW . . . . .	400	2,051	-	-	-	-	-	-
TOTAL. . . . .	24,300	274,586	25,000	7,000	55,900	18,641		

## VALUE OF GULF STATES CATCH, 1964



## GULF FISHERIES

## ALABAMA

## OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS, SHRIMP	FYKE AND HOOP NETS, FISH	POTS AND TRAPS	
				CRAB, BLUE	FISH
FISHERMEN:					
ON VESSELS . . . . .	-	582	-	-	-
ON BOATS AND SHORE:					
REGULAR . . . . .	18	380	9	66	4
CASUAL . . . . .	-	27	5	-	6
TOTAL . . . . .	18	989	14	66	10
VESSELS, MOTOR . . . . .	-	230	-	-	-
GROSS TONNAGE . . . . .	-	8,225	-	-	-
BOATS:					
MOTOR . . . . .	5	231	14	60	10
OTHER . . . . .	5	-	-	-	-
GEAR:					
NUMBER . . . . .	5	617	420	6,400	196
LENGTH, YARDS . . . . .	1,500	-	-	-	-
YARDS AT MOUTH . . . . .	-	9,482	-	-	-
LINES					
ITEM	GILL NETS, RUN-A- ROUND	TRAMMEL NETS	HAND	LONG OR SET WITH HOOKS	TROT WITH BAITS
FISHERMEN:					
ON VESSELS . . . . .	-	-	193	-	-
ON BOATS AND SHORE:					
REGULAR . . . . .	8	104	8	4	16
CASUAL . . . . .	2	-	24	-	2
TOTAL . . . . .	10	104	225	4	18
VESSELS, MOTOR . . . . .	-	-	22	-	-
GROSS TONNAGE . . . . .	-	-	1,151	-	-
BOATS:					
MOTOR . . . . .	8	56	32	4	18
OTHER . . . . .	2	48	-	-	-
GEAR:					
NUMBER . . . . .	10	104	205	4	18
SQUARE YARDS . . . . .	5,600	104,000	-	1,068	1,200
HOOKS OR BAITS . . . . .	-	-	-	-	8,100
TOTAL, EX- CLUSIVE OF DUPLICATION					
ITEM	SPEARS	DREDGES, OYSTER, COMMON	TONGS, OYSTER	NUMBER	
FISHERMEN:					
ON VESSELS . . . . .	-	-	-	-	773
ON BOATS AND SHORE:					
REGULAR . . . . .	24	11	513	742	
CASUAL . . . . .	12	2	168	218	
TOTAL . . . . .	36	13	681	1,733	
VESSELS, MOTOR . . . . .	-	-	-	-	251
GROSS TONNAGE . . . . .	-	-	-	-	9,356
BOATS:					
MOTOR . . . . .	36	3	356	564	
OTHER . . . . .	-	-	60	113	
GEAR:					
NUMBER . . . . .	36	6	666	-	-
YARDS AT MOUTH . . . . .	-	6	-	-	-

# GULF FISHERIES

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## ALABAMA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		OTTER TRAWLS, SHRIMP		FYKE AND HOOP NETS, FISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH . . . . .	6,600	\$353	100	\$3	-	-
BLUE RUNNER. . . . .	300	10	-	-	-	-
BUFFALO FISH. . . . .	-	-	-	-	63,500	\$6,725
CABIO. . . . .	-	-	100	4	-	-
CATFISH AND BULLHEADS. . . . .	-	-	-	-	3,000	750
CROAKER. . . . .	200	22	500	37	-	-
DRUM. . . . .	-	-	-	-	-	-
BLACK. . . . .	3,100	237	1,500	99	-	-
RED. . . . .	4,300	644	1,400	198	-	-
FLOUNDERS. . . . .	-	-	142,200	18,917	-	-
GROUPERS. . . . .	-	-	600	62	-	-
JEWFISH. . . . .	-	-	300	27	-	-
KING WHITING OR "KINGFISH". . . . .	-	-	561,600	28,225	-	-
MULLET, BLACK. . . . .	15,500	773	1,400	88	-	-
PADDLEFISH. . . . .	-	-	-	-	10,000	1,270
POMPOON. . . . .	400	277	200	134	-	-
SEA CATFISH. . . . .	-	-	10,600	558	-	-
SEA TROUT OR WEAKFISH. . . . .	-	-	-	-	-	-
SPOTTED. . . . .	10,700	2,677	400	98	-	-
WHITE. . . . .	-	-	65,000	3,257	-	-
SHEEPSHEAD. . . . .	-	-	-	-	-	-
FRESH-WATER. . . . .	-	-	-	-	14,000	2,107
SALT-WATER. . . . .	2,400	167	21,400	1,445	-	-
SNAPPER, RED. . . . .	-	-	18,700	2,623	-	-
SPANISH MACKEREL. . . . .	60,900	7,041	200	19	-	-
SPOT. . . . .	600	18	400	16	-	-
STURGEON. . . . .	-	-	-	-	100	20
CRABS. . . . .	-	-	117,900	6,409	-	-
SHrimp. . . . .	-	-	7,214,700	2,629,814	-	-
SQUID. . . . .	-	-	4,200	350	-	-
TOTAL. . . . .	105,000	12,219	8,163,400	2,692,383	90,600	10,672

SPECIES	POTS AND TRAPS		GILL NETS, RUNAROUND	
	CRAB, BLUE.	FISH		
	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH . . . . .	-	-	-	-
BUFFALO FISH. . . . .	-	-	4,200	\$212
CATFISH AND BULLHEADS. . . . .	-	-	36,700	9,262
SHEEPSHEAD, FRESH-WATER. . . . .	-	-	1,400	212
SPANISH MACKEREL. . . . .	-	-	-	-
CRABS, BLUE, HARD. . . . .	1,584,800	\$100,121	-	-
TOTAL. . . . .	1,584,800	100,121	42,300	9,686
			14,500	1,381

SPECIES	TRAMMEL NETS		LINES		LONG OR SET WITH HOOKS	
		HAND				
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUEFISH . . . . .	1,100	\$95	-	-	-	-
CATFISH AND BULLHEADS. . . . .	-	-	-	-	5,600	\$1,409
CROAKER. . . . .	2,500	212	-	-	-	-
DRUM. . . . .	-	-	-	-	-	-
BLACK. . . . .	12,700	1,093	-	-	-	-
RED. . . . .	13,500	2,191	100	\$8	-	-
FLOUNDERS. . . . .	100	29	-	-	-	-
GROUPERS. . . . .	-	-	303,900	43,462	-	-
JEWFISH. . . . .	-	-	118,100	11,720	-	-
KING WHITING OR "KINGFISH". . . . .	13,200	667	-	-	-	-
MULLET, BLACK. . . . .	1,055,100	54,759	-	-	-	-
POMPANO. . . . .	300	180	700	398	-	-
SEA CATFISH. . . . .	2,200	126	-	-	-	-
SEA TROUT OR WEAKFISH. . . . .	-	-	-	-	-	-
SPOTTED. . . . .	43,000	10,985	10,500	2,712	-	-
WHITE. . . . .	100	7	-	-	-	-
SHEEPSHEAD, SALT-WATER. . . . .	10,900	762	-	-	-	-
SNAPPER, RED. . . . .	-	-	2,374,200	682,510	-	-
SPANISH MACKEREL. . . . .	900	85	800	72	-	-
SPOT. . . . .	12,700	667	-	-	-	-
TOTAL. . . . .	1,168,300	71,858	2,808,300	740,682	5,600	1,409

SPECIES	LINES - CONTINUED		SPEARS		DREDGES, OYSTER, COMMON		TONGS, OYSTER	
	TROT WITH BAITS							
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS. . . . .	-	-	19,800	\$5,890	-	-	-	-
CRABS, BLUE, HARD. OYSTERS, MARKET; PUBLIC:	59,000	\$3,805	-	-	-	-	-	-
SPRING. . . . .	-	-	-	-	-	-	745,200	\$223,410
FALL. . . . .	-	-	-	-	-	-	185,500	73,744
PRIVATE:	-	-	-	-	-	-	-	-
SPRING. . . . .	-	-	-	-	36,800	\$12,570	15,500	5,885
FALL. . . . .	-	-	-	-	12,700	4,670	9,600	3,846
TOTAL. . . . .	59,000	3,805	19,800	5,890	49,500	17,240	955,800	306,885

**GULF FISHERIES****MISSISSIPPI****OPERATING UNITS BY GEAR, 1964**

ITEM	PURSE SEINES, MENHADEN	OTTER TRAWLS		POTS AND TRAPS, CRAB, BLUE
		FISH	SHRIMP	
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS . . . . .	372	197	1,000	-
ON BOATS AND SHORE:				
REGULAR . . . . .	-	-	232	26
CASUAL . . . . .	-	-	205	3
TOTAL . . . . .	372	197	1,437	29
VESSELS, MOTOR . . . . .	21	82	405	-
GROSS TONNAGE . . . . .	6,048	2,982	14,405	-
BOATS, MOTOR . . . . .	42	-	360	25
GEAR:				
NUMBER . . . . .	21	109	1,003	2,930
LENGTH, YARDS . . . . .	10,590	-	-	-
YARDS AT MOUTH . . . . .	-	1,995	14,044	-
		LINES		
ITEM	TRAMMEL NETS	HAND	TROT WITH BAITS	CAST NETS
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS . . . . .	24	126	-	-
ON BOATS AND SHORE:				
REGULAR . . . . .	27	-	8	-
CASUAL . . . . .	6	70	3	6
TOTAL . . . . .	57	196	11	6
VESSELS, MOTOR . . . . .	8	14	-	-
GROSS TONNAGE . . . . .	103	87	-	-
BOATS:				
MOTOR . . . . .	34	65	11	-
OTTER. . . . .	16	-	-	-
GEAR:				
NUMBER . . . . .	34	184	11	6
SQUARE YARDS . . . . .	24,600	-	-	-
HOOKS OR BAITS . . . . .	-	982	5,500	-
		DREDGES, OYSTER, COMMON	TONGS, OYSTER	TOTAL, EX- CLUSIVE OF DUPLICATION
ITEM	SPEARS			
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS . . . . .	-	626	-	2,039
ON BOATS AND SHORE:				
REGULAR . . . . .	-	50	425	628
CASUAL . . . . .	20	30	130	401
TOTAL . . . . .	20	705	555	3,068
VESSELS, MOTOR . . . . .	-	192	-	565
GROSS TONNAGE . . . . .	-	4,303	-	24,777
BOATS:				
MOTOR . . . . .	-	40	446	899
OTTER. . . . .	-	-	104	120
GEAR:				
NUMBER . . . . .	20	464	550	-
YARDS AT MOUTH . . . . .	-	500	-	-

# GULF FISHERIES

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## MISSISSIPPI - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES, HENHADEN		OTTER TRAWLS			
			FISH		SHRIMP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
DRUM;						
BLACK . . . . .	-	-	800	\$47	2,700	\$162
RED . . . . .	-	-	2,300	186	500	50
FLOUNDERS . . . . .	-	-	27,000	3,527	30,000	4,222
GROUPERS . . . . .	-	-	-	-	1,200	112
KING WHITING OR "KINGFISH"	-	-	157,200	6,575	165,300	11,195
MENHADEN . . . . .	237,832,600	\$3,131,440	9,200	459	6,800	345
SEA CATFISH . . . . .	-	-	6,400	365	16,800	862
SEA TROUT OR WEAKFISH, WHITE . . . . .	-	-	4,700	295	7,800	616
SHEEPSHEAD, SALT-WATER . . . . .	-	-	200	30	10,100	1,119
SNAPPER, RED . . . . .	-	-	-	-	100	5
SPANISH MACKEREL . . . . .	-	-	-	-	600	36
SPOT . . . . .	-	-	-	-	-	-
UNCLASSIFIED, FOR BAIT, RE- DUCTION, AND ANIMAL FOOD . . . . .	-	-	78,425,200	1,348,925	-	-
SHRIMP . . . . .	-	-	-	-	6,416,000	1,804,829
TOTAL . . . . .	237,832,600	3,131,440	78,633,000	1,362,412	6,657,900	1,823,557
SPECIES	POTS AND TRAPS, CRAB		TRAMMEL NETS			
	POUNDS	VALUE	POUNDS		POUNDS	VALUE
BLUEFISH . . . . .	-	-	14,600			\$1,463
CROAKER . . . . .	-	-	500			30
DRUM;						
BLACK . . . . .	-	-	42,200			2,851
RED . . . . .	-	-	46,400			6,620
KING WHITING OR "KINGFISH"	-	-	500			31
MULLET, BLACK . . . . .	-	-	247,300			12,291
POMPANO . . . . .	-	-	200			100
SEA CATFISH . . . . .	-	-	600			32
SEA TROUT OR WEAKFISH; SPOTTED . . . . .	-	-	146,000			30,014
WHITE . . . . .	-	-	2,900			171
SHEEPSHEAD, SALT-WATER . . . . .	-	-	36,400			2,910
SPANISH MACKEREL . . . . .	-	-	100			12
SPOT . . . . .	-	-	6,600			504
CRABS, BLUE;						
HARD . . . . .	1,107,700	\$72,093	-		-	-
SOFT AND PEELER . . . . .	1,200	182	-		-	-
TOTAL . . . . .	1,108,900	72,275		544,500		57,229
SPECIES	LINES				CAST NETS	
	HAND		TROT WITH BAITS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CARIO . . . . .	900	\$71	-	-	-	-
DRUM, RED . . . . .	900	129	-	-	-	-
GROUPERS . . . . .	267,200	29,190	-	-	-	-
MULLET, BLACK . . . . .	-	-	-	-	2,000	\$100
SEA TROUT OR WEAKFISH; SPOTTED . . . . .	2,100	508	-	-	-	-
SHEEPSHEAD, SALT-WATER . . . . .	400	26	-	-	-	-
SNAPPER, RED . . . . .	1,838,900	459,723	-	-	-	-
SPANISH MACKEREL . . . . .	500	42	-	-	-	-
CRABS, BLUE;						
HARD . . . . .	-	-	178,300	\$9,517	-	-
SOFT AND PEELER . . . . .	-	-	500	70	-	-
TOTAL . . . . .	2,110,900	489,689	178,800	9,587	2,000	100
SPECIES	SPEARS			DREDGES, OYSTER, COMMON		
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS . . . . .	300	\$61	-	-	-	-
OYSTERS, MARKET; PUBLIC:						
SPRING . . . . .	-	-	2,293,600	\$414,498	788,900	\$204,530
FALL . . . . .	-	-	533,100	191,131	87,700	30,529
PRIVATE:						
SPRING . . . . .	-	-	666,600	144,632	-	-
FALL . . . . .	-	-	256,500	93,416	-	-
TOTAL . . . . .	300	61	3,952,000	663,677	876,600	235,059
TONGS, OYSTER						

**GULF FISHERIES**  
**LOUISIANA**  
**OPERATING UNITS BY GEAR, 1964**

ITEM	HAUL SEINES, COMMON	PURSE SEINES, MENHADEN	OTTER TRAWLS		FYKE AND HOOP NETS, FISH
			FISH	SHRIMP	
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS . . . . .	-	900	17	3,503	-
ON BOATS AND SHORE:					
REGULAR . . . . .	28	-	-	2,974	207
CASUAL . . . . .	12	-	-	1,118	129
TOTAL . . . . .	40	900	17	7,595	336
VESSELS, MOTOR . . . . .	-	50	7	1,343	-
GROSS TONNAGE . . . . .	-	13,044	285	53,617	-
BOATS:					
MOTOR . . . . .	18	100	-	2,967	330
OTHER . . . . .	11	-	-	-	-
GEAR:					
NUMBER . . . . .	12	50	11	5,286	11,109
LENGTH, YARDS . . . . .	3,867	21,730	-	-	
YARDS AT MOUTH . . . . .	-	-	166	75,010	-
POTS AND TRAPS					
ITEM	CRABS, BLUE	CRAWFISH	FISH	GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS . . . . .	-	-	-	4	6
ON BOATS AND SHORE:					
REGULAR . . . . .	25	62	36	113	162
CASUAL . . . . .	9	55	-	65	23
TOTAL . . . . .	34	137	36	183	191
VESSELS, MOTOR . . . . .	-	-	-	1	2
GROSS TONNAGE . . . . .	-	-	-	12	37
BOATS:					
MOTOR . . . . .	34	133	36	173	119
OTHER . . . . .	-	-	-	-	22
GEAR:					
NUMBER . . . . .	3,250	8,980	464	197	113
SQUARE YARDS . . . . .	-	-	-	63,974	39,501
LINES					
ITEM	HAND	LONG OR SET WITH HOOKS	TROT WITH BAITS	COMMON	DROP
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS . . . . .	117	-	-	-	-
ON BOATS AND SHORE:					
REGULAR . . . . .	26	748	590	28	388
CASUAL . . . . .	93	359	104	9	32
TOTAL . . . . .	236	1,117	694	37	420
VESSELS, MOTOR . . . . .	23	-	-	-	-
GROSS TONNAGE . . . . .	1,140	-	-	-	-
BOATS:					
MOTOR . . . . .	89	1,117	693	37	317
OTHER . . . . .	-	-	-	-	17
GEAR:					
NUMBER . . . . .	660	1,613	750	37	29,032
HOOKS OR BAITS . . . . .	1,198	602,352	427,000	-	-
DREDGES, OYSTER, COMMON					
ITEM	DREDGES, OYSTER, COMMON	TONGS, OYSTER	BRUSH TRAPS	GRABS, FROG	BY HAND, OYSTER
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS . . . . .	639	-	-	-	-
ON BOATS AND SHORE:					
REGULAR . . . . .	317	462	65	31	60
CASUAL . . . . .	51	31	-	15	-
TOTAL . . . . .	1,007	493	65	46	60
VESSELS, MOTOR . . . . .	224	-	-	-	-
GROSS TONNAGE . . . . .	4,106	-	-	-	-
BOATS:					
MOTOR . . . . .	199	276	65	34	30
OTHER . . . . .	-	62	-	6	10
GEAR:					
NUMBER . . . . .	772	493	28,275	46	-
YARDS AT MOUTH . . . . .	880	-	-	-	-

# GULF FISHERIES

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## LOUISIANA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON		PURSE SEINES, MENHADEN	
	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	600	\$20	-	-
BUFFALOFISH . . . . .	55,900	5,939	-	-
CARP . . . . .	400	12	-	-
CATFISH AND BULLHEADS . . . . .	10,200	2,540	-	-
CROAKER . . . . .	3,100	155	-	-
DOLPHIN FISH . . . . .				
BLACK . . . . .	39,800	2,449	-	-
RED . . . . .	36,400	6,061	-	-
FLOUNDERS . . . . .	2,300	414	-	-
GARFISH . . . . .	64,700	2,599	-	-
KING WHITING OR "KINGFISH" . . . . .	4,300	301	-	-
MENHADEN . . . . .	-	-	599,537,500	\$9,045,557
MULLET, BLACK . . . . .	14,400	720	-	-
SEA CATFISH . . . . .	1,200	120	-	-
SEA TROUT OR WEAKFISH: . . . . .				
SPOTTED . . . . .	27,500	6,875	-	-
WHITE . . . . .	5,900	563	-	-
SHARKS, UNCLASSIFIED . . . . .	500	25	-	-
SHEEPSHEAD: . . . . .				
FRESH-WATER . . . . .	3,400	330	-	-
SALT-WATER . . . . .	16,200	1,524	-	-
SPOT . . . . .	500	50	-	-
TOTAL . . . . .	289,300	30,717	599,537,500	9,045,557
SPECIES	OTTER TRAWLS			FYKE AND HOOP NETS, FISH
	FISH		SHRIMP	
	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	-	-	-	2,100 \$64
BUFFALOFISH . . . . .	-	-	-	263,200 31,141
CABIO . . . . .	-	-	100 \$20	-
CARP . . . . .	-	-	-	15,000 779
CATFISH AND BULLHEADS . . . . .	-	-	-	1,155,500 273,034
CROAKER . . . . .	-	-	4,800 240	-
DOLPHIN FISH . . . . .				
BLACK . . . . .	-	-	29,900 2,392	-
RED . . . . .	-	-	18,100 2,715	-
FLOUNDERS . . . . .	-	-	177,900 22,566	-
GARFISH . . . . .	-	-	-	800 35
GROUPER . . . . .	-	-	3,900 345	-
JEWFISH . . . . .	-	-	2,200 53	-
KING WHITING OR "KINGFISH" . . . . .	-	-	452,900 25,239	-
MULLET, BLACK . . . . .	-	-	1,500 75	-
POMPANO . . . . .	-	-	2,900 1,200	-
SAWFISH . . . . .	-	-	3,100 155	-
SEA CATFISH . . . . .	-	-	46,900 2,404	-
SEA TROUT OR WEAKFISH: . . . . .				
SPOTTED . . . . .	-	-	3,300 660	-
WHITE . . . . .	-	-	36,100 1,840	-
SHARKS, UNCLASSIFIED . . . . .	-	-	2,200 100	-
SHEEPSHEAD: . . . . .				
FRESH-WATER . . . . .	-	-	-	121,300 12,149
SALT-WATER . . . . .	-	-	34,000 2,522	-
SNAPPER, RED . . . . .	-	-	63,900 12,166	-
SPANISH MACKEREL . . . . .	-	-	700 95	-
SPOT . . . . .	-	-	5,000 250	-
TRIPLETAIL . . . . .	-	-	2,600 161	-
UNCLASSIFIED, FOR BAIT, RE- LATION, AND ANIMAL FOOD . . . . .	8,166,000	\$101,607	-	300 10
CRABS, BLUE, HARD . . . . .	-	-	648,900 36,795	-
SHRIMP . . . . .	-	-	59,365,000 18,789,964	-
SQUID . . . . .	-	-	3,600 491	-
TERRAPIN . . . . .	-	-	5,600 1,120	-
TURTLES: . . . . .				
GREEN . . . . .	-	-	3,000 420	-
SNAPPER . . . . .	-	-	-	3,100 850
TOTAL . . . . .	8,166,000	101,607	60,918,100 18,904,008	1,581,300 318,062

(CONTINUED ON NEXT PAGE)

# GULF FISHERIES

## LOUISIANA - CATCH BY GEAR, 1964 - Continued

SPECIES	POTS AND TRAPS					
	CRAB, BLUE		CRAWFISH		FISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CATFISH AND BULLHEADS . . . . .	-	-	-	-	355,100	\$79,133
CRAB, BLUE:						
HARD . . . . .	295,800	\$23,744	-	-	-	-
SOFT AND PEELER . . . . .	23,400	14,040	-	-	-	-
CRAWFISH, FRESH-WATER . . . . .			1,052,900	\$190,740	-	-
TOTAL . . . . .	320,200	37,764	1,052,900	190,740	355,100	79,133
SPECIES	GILL NETS, ANCHOR, SET OR STAKE		TRAMMEL NETS		LINES	
			HAND		LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH . . . . .	446,500	\$48,302	58,600	\$6,450	-	-
CABIO . . . . .	-	-	-	-	200	\$10
CARP . . . . .	6,500	430	-	-	-	-
CATFISH AND BULLHEADS . . . . .	416,400	96,791	45,300	11,207	-	-
CROAKER . . . . .	-	-	12,400	620	200	10
DRUM:						
BLACK . . . . .	1,000	80	234,400	17,766	700	35
RED . . . . .	5,600	921	242,800	39,222	3,800	664
FLOUNDERS . . . . .	-	-	9,700	1,630	-	-
GARFISH . . . . .	905,200	44,145	49,400	2,464	8,400	421
GROPER . . . . .	-	-	-	-	8,800	568
KING WHITING OR "KINGFISH" . . .	-	-	14,800	1,036	-	-
MULLET, BLACK . . . . .	-	-	6,300	292	-	-
PADDLEFISH . . . . .	500	50	400	20	-	-
POMPANO . . . . .	-	-	-	-	6,400	4,800
SAWFISH . . . . .	-	-	500	25	-	-
SEA CATFISH . . . . .	-	-	4,300	260	-	-
SEA TROUT OR WEAKEISH:					-	-
SPOONED . . . . .	5,700	1,140	246,500	57,680	7,300	1,725
MITTLE . . . . .	-	-	24,000	2,657	100	5
SHEEPSHEAD:						
FRESH-WATER . . . . .	16,400	1,640	3,000	303	-	-
SALT-WATER . . . . .	-	-	86,100	7,087	2,000	101
SNAPPER, RED . . . . .	-	-	-	-	246,000	66,079
SPANISH MACKEREL . . . . .	-	-	-	-	800	96
MARSWAN . . . . .	-	-	-	-	4,300	427
TURTLES, SNAPPER . . . . .	-	-	-	-	3,800	767
TOTAL . . . . .	1,803,800	193,499	1,038,300	148,759	292,800	75,728
	4,134,600					965,922
SPECIES	LINES - CONTINUED		DIP NETS		DREDGES, OYSTER, COMMON	
	TROT WITH BAITS		COMMON			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS, BLUE:						
HARD . . . . .	3,365,300	\$211,165	-	-	1,377,700	\$107,510
SOFT AND PEELER . . . . .	40,400	26,260	-	-	112,000	70,975
CRAWFISH, FRESH-WATER . . . . .	-	-	-	-	276,900	47,535
OYSTER, MARKET:						
PUBLIC:						
SPRING . . . . .	-	-	-	-	-	-
FALL . . . . .	-	-	-	-	-	-
PRIVATE:						
SPRING . . . . .	-	-	-	-	-	-
FALL . . . . .	-	-	-	-	-	-
TURTLES, BABY . . . . .	-	-	7,100	\$26,400	-	-
FROGS . . . . .	-	-	4,100	1,640	-	-
TOTAL . . . . .	3,408,700	237,425	11,200	30,040	1,766,600	226,020
	10,765,500					2,765,528
SPECIES	TONGS, OYSTER		BRUSH TRAPS		GRABS, FROG	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRABS, BLUE, SOFT AND PEELER.	-	-	24,100	\$15,665	-	-
SHRIMP . . . . .	-	-	16,900	3,398	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING . . . . .	281,300	\$87,203	-	-	-	-
FALL . . . . .	37,900	13,455	-	-	-	-
PRIVATE:						
SPRING . . . . .	143,400	36,452	-	-	-	-
FALL . . . . .	147,000	63,484	-	-	-	-
FROGS . . . . .	-	-	-	-	11,200	\$4,376
TOTAL . . . . .	609,600	200,594	41,000	19,063	11,200	4,376
	26,000					10,030

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# GULF FISHERIES

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## TEXAS

### OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES, MENHADEN	OTTER TRAWLS, SHRIMP	FYKE AND HOOP NETS, FISH	POTS AND TRAPS, CRAB, BLUE
FISHERMEN: ON VESSELS, ON BOATS AND SHORE:					
REGULAR . . . . .	-	162	3,749	-	-
CASUAL . . . . .	33	-	705	1	72
TOTAL . . . . .	23	-	292	-	4
VESSELS, MOTOR . . . . .	56	162	4,746	1	76
BOATS: MOTOR . . . . .					
OTHER . . . . .	-	8	1,387	-	-
GEAR: NUMBER . . . . .	16	1,329	70,572	-	-
LENGTH, YARDS . . . . .	-	16	695	1	63
YARDS AT MOUTH . . . . .	4,600	8	-	-	-
FISHERMEN: ON VESSELS, ON BOATS AND SHORE:					
REGULAR . . . . .	61	133	496	-	-
CASUAL . . . . .	6	5	8	123	10
TOTAL . . . . .	67	138	265	26	1
VESSELS, MOTOR . . . . .	67	138	769	149	11
BOATS: MOTOR . . . . .					
OTHER . . . . .	-	-	93	-	-
GEAR: NUMBER . . . . .	53	82	4,138	-	-
SQUARE YARDS . . . . .	12	21	194	137	6
HOOKS OR BAITS . . . . .	36,600	52,372	-	-	-
FISHERMEN: ON VESSELS, ON BOATS AND SHORE:					
REGULAR . . . . .	88	314	86	746	6
CASUAL . . . . .	93	-	25	141	6
TOTAL . . . . .	181	677	7	4,740	167,300
VESSELS, MOTOR . . . . .	181	677	32	34	2,000
BOATS: MOTOR . . . . .					
OTHER . . . . .	-	-	-	-	-
GEAR: NUMBER . . . . .	181	275	275	32	-
YARDS AT MOUTH . . . . .	-	-	-	-	-
FISHERMEN: ON VESSELS, ON BOATS AND SHORE:					
REGULAR . . . . .	-	363	-	-	4,469
CASUAL . . . . .	88	314	25	24	911
TOTAL . . . . .	93	-	7	10	617
VESSELS, MOTOR . . . . .	181	677	32	34	5,997
BOATS: MOTOR . . . . .					
OTHER . . . . .	-	122	-	-	1,479
GEAR: NUMBER . . . . .	-	1,652	-	-	74,402
YARDS AT MOUTH . . . . .	64	153	26	34	1,056

**GULF FISHERIES****TEXAS - CATCH BY GEAR, 1964**

SPECIES	HAUL SEINES, COMMON		PURSE SEINES, MENHADEN		OTTER TRAWLS, SHRIMP	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
DRUM:						
BLACK . . . . .	23,600	\$2,229	-	-	25,000	\$1,383
RED . . . . .	11,000	2,769	-	-	1,600	320
FLOUNDERS . . . . .	-	-	-	-	179,400	42,500
GROUPERS . . . . .	-	-	-	-	4,800	364
JEWFISH . . . . .	-	-	-	-	500	40
KING WHITING OR "KINGFISH". . . . .	5,000	250	-	-	247,600	11,233
MENHADEN . . . . .	-	-	66,686,400	\$822,024	-	-
MULLET, BLACK . . . . .	-	-	-	-	5,000	150
POMPANO . . . . .	1,000	400	-	-	-	-
SEA CATFISH . . . . .	1,400	98	-	-	16,600	1,342
SEA TROUT OR WEAKFISH, SPOTTED . . . . .	78,500	21,358	-	-	100	25
SHEEPSHEAD, SALT-WATER . . . . .	15,000	1,800	-	-	114,300	13,328
SNAPPER, RED . . . . .	-	-	-	-	116,300	26,558
WARSAW . . . . .	-	-	-	-	6,500	520
UNCLASSIFIED: FOR FOOD . . . . .	-	-	-	-	129,300	8,361
BAIT, REDUCTION, AND ANIMAL FOOD . . . . .	5,600	168	-	-	3,200	154
CRABS, BLUE, HARD . . . . .	-	-	-	-	174,000	12,444
SHRIMP . . . . .	-	-	-	-	66,053,100	26,144,111
SQUID . . . . .	-	-	-	-	23,500	2,350
TOTAL . . . . .	141,100	29,072	66,686,400	822,024	67,100,800	26,265,263

SPECIES	FYKE AND HOOP NETS, FISH		POTS AND TRAPS, CRAB, BLUE		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH . . . . .	8,000	\$1,200	-	-	34,100	\$5,115
CARP . . . . .	-	-	-	-	3,000	300
CATFISH AND BULLHEADS . . . . .	-	-	-	-	3,100	960
DRUM:						
BLACK . . . . .	-	-	-	-	302,900	24,306
RED . . . . .	-	-	-	-	3,300	825
FLOUNDERS . . . . .	-	-	-	-	41,500	11,620
GARFISH . . . . .	11,000	440	-	-	50,400	2,215
SEA CATFISH . . . . .	-	-	-	-	3,600	324
SEA TROUT OR WEAKFISH, SPOTTED . . . . .	-	-	-	-	62,500	15,625
SHEEPSHEAD, SALT-WATER . . . . .	-	-	-	-	300	30
CRABS, BLUE: HARD . . . . .	-	-	2,228,400	\$157,261	-	-
SOFT AND PEELER . . . . .	-	-	500	.75	-	-
TOTAL . . . . .	19,000	1,640	2,228,900	157,336	504,700	61,320

SPECIES	TRAMMEL NETS	LINES				
		HAND		LONG OR SET WITH HOOKS		
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CABIO . . . . .	-	-	13,800	\$1,103	-	-
CATFISH AND BULLHEADS . . . . .	-	-	-	-	23,500	\$7,750
CROAKER . . . . .	-	-	100	6	900	.56
DRUM:						
BLACK . . . . .	419,100	\$40,643	31,700	2,619	607,000	53,328
RED . . . . .	134,200	33,659	24,200	6,070	272,600	68,150
FLOUNDERS . . . . .	2,900	785	5,500	1,450	10,400	2,660
GARFISH . . . . .	-	-	186,700	16,666	2,500	100
GROUPERS . . . . .	-	-	-	-	-	-
JEWFISH . . . . .	-	-	2,200	.176	-	-
MULLET, BLACK . . . . .	200	6	-	-	-	-
POMPANO . . . . .	600	240	3,500	1,110	800	320
SEA CATFISH . . . . .	14,800	1,267	1,300	107	3,100	265
SEA TROUT OR WEAKFISH, SPOTTED . . . . .	378,900	100,039	65,500	16,584	392,200	98,050
SHEEPSHEAD:						
FRESH-WATER . . . . .	-	-	-	-	600	60
SALT-WATER . . . . .	51,600	5,560	20,800	2,046	41,500	4,180
SNAPPER, RED . . . . .	-	-	2,133,500	604,642	-	-
WARSAW . . . . .	-	-	23,900	2,372	-	-

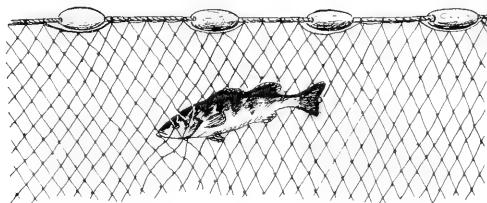
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# GULF FISHERIES

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## TEXAS - CATCH BY GEAR, 1964 - Continued

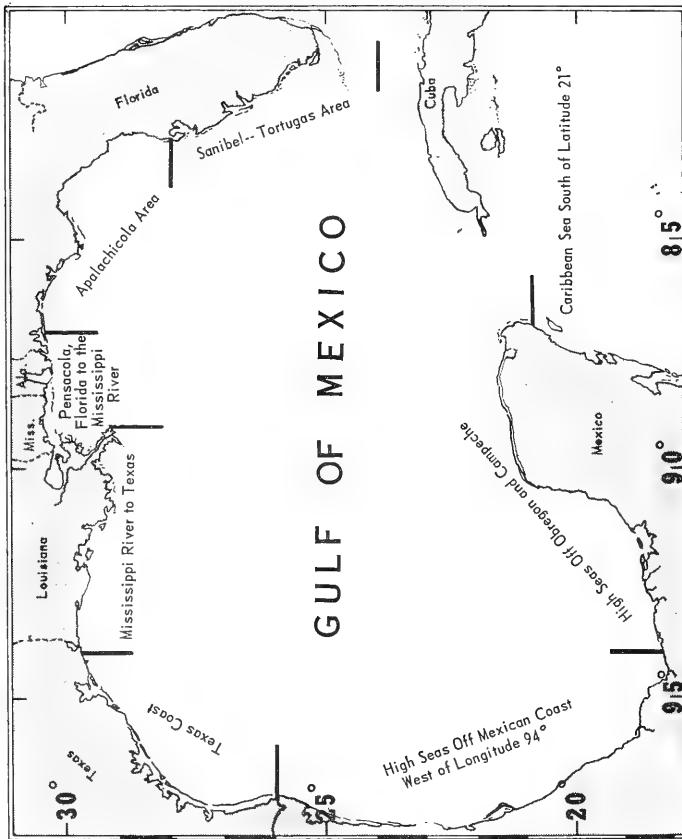
SPECIES	TRAMMEL NETS		LINES			
			HAND		LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
UNCLASSIFIED:						
FOR FOOD . . . . .	2,900	\$260	-	-	1,300	\$78
BAIT, REDUCTION, AND	9,000	481	1,000	\$50	-	-
ANIMAL FOOD . . . . .						
TOTAL . . . . .	1,014,200	182,940	2,513,700	657,001	1,356,700	234,997
SPECIES	LINES - CONTINUED		SPEARS	DREDGES, OYSTER, COMMON		
	TROT WITH BAITS					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS . . . . .			65,900	\$18,302	-	-
CRABS, BLUE, HARD . . . . .	81,900	\$3,772	-	-	-	-
OYSTERS, MARKET: PUBLIC:						
SPRING.	-	-	-	-	1,847,500	\$579,858
FALL. . . . .	-	-	-	-	1,327,300	441,539
PRIVATE:						
SPRING. . . . .	-	-	-	-	66,300	27,635
FALL. . . . .	-	-	-	-	24,600	10,298
TOTAL . . . . .	81,900	5,772	65,900	18,302	3,265,700	1,059,330
SPECIES	TONGS, OYSTER			BY HAND, OYSTER		
	POUNDS	VALUE	POUNDS	VALUE		
OYSTERS, MARKET, PUBLIC: SPRING. . . . .	27,600	\$9,225	25,800	\$9,408		
FALL. . . . .	20,100	7,602	17,900	7,017		
TOTAL . . . . .	47,700	16,827	43,700	16,425		



GILL NET

# GULF FISHERIES

Chart depicting the major statistical areas used in reporting the shrimp catch by fishing craft on trips completed during 1964.



## GULF SHRIMP FISHERY, 1964

Although landings were 15.1 million pounds (heads-off) below 1963, most segments of the shrimp industry had a profitable year. Strong demand for shrimp and a greater percentage of higher priced large shrimp resulted in relatively high and stable ex-vessel prices most of the year. During 1964, shrimp of 30-count-and-under-to-the-pound (heads-off) were 39 percent of the total landings compared with 34 percent the previous year.

This was the first year since the Bureau's detailed statistical program began in 1956 that white shrimp landings exceeded those of brown: White shrimp accounted for 39 percent of the total landings; brown, 37 percent; and pink, 24 percent. During the previous year, white shrimp made up 37 percent of the total landings; brown, 43 percent; pink, 19 percent; and seabobs, 1 percent. Louisiana and Texas fishermen found an excellent crop of white shrimp in coastal waters in the fall of 1963, and a sizeable "wintering over" of these shrimp in Louisiana waters led to record catches during the first 5 months of the year.

Although the shrimp grounds between the Mississippi River and the Louisiana-Texas border were again the most productive, accounting for 33 percent of the total Gulflandings, they yielded 28 percent less than in 1963. Catches from grounds off the Texas coast were down 9 percent; and between Pensacola, Fla., and the Mississippi River, 16 percent. Production off Tortugas and Campeche, in the Caribbean, and on the high seas off the Mexican coast west of long.94°, however, was substantially better than the previous year.

The following tabulations include information on the species of shrimp taken in the Gulf by size; the number of fishing trips; and the catch by area, depth, and size. 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 heads-on weight by multiplying brown shrimp poundage by 1.61; white, 1.54; pink, 1.60; seabobs, 1.53; and royal red, 1.80.

Information on the landings and catch of shrimp in the Gulf area in the following tables has been previously published in Current Fishery Statistics No. 3785. Data on landings and value of shrimp by species and size for the South Atlantic States are included in Section 5 of this Digest.

## SUMMARY OF GULF SHRIMP LANDINGS, 1964

SIZE	BROWN		PINK		WHITE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
UNDER 15.	2,193,058	\$1,908,388	76,173	\$66,787	521,711	\$463,293
15 - 20.	6,109,208	4,872,209	1,621,744	1,244,362	6,254,269	5,079,671
21 - 25.	5,489,523	3,965,429	2,472,174	1,761,940	6,413,529	4,617,751
26 - 30.	4,222,448	2,769,284	3,225,950	2,132,483	5,076,010	3,222,915
31 - 40.	8,492,263	4,719,817	8,178,705	4,855,842	8,828,362	4,670,346
41 - 50.	3,989,766	1,604,978	3,535,828	2,712,212	4,982,142	2,189,530
51 - 67.	5,790,769	2,060,375	3,543,289	1,457,706	5,422,648	2,116,486
68 AND OVER.	5,874,177	1,551,564	2,335,167	516,387	6,499,175	1,858,548
TOTAL.	42,161,222	23,653,044	26,807,031	14,747,739	43,977,846	24,218,540

SIZE	SEA BOBS		ROYAL RED		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
UNDER 15.	-	-	-	-	2,760,952	\$2,438,468
15 - 20.	-	-	-	-	13,985,221	11,196,262
21 - 25.	-	-	-	-	14,375,226	10,346,120
26 - 30.	-	-	2,058	\$1,258	12,526,466	8,125,940
31 - 40.	-	-	2,533	1,432	25,501,864	14,247,437
41 - 50.	-	-	-	-	14,305,736	6,706,720
51 - 67.	-	-	-	-	14,756,706	5,634,567
68 AND OVER.	333,141	\$68,978	-	-	15,041,660	3,995,477
TOTAL.	333,141	68,978	4,591	2,690	113,283,831	62,690,991

# GULF FISHERIES

## GULF SHRIMP LANDINGS, BY SPECIES AND SIZE, 1964

SPECIES AND SIZE	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BROWN:						
UNDER 15 . . . . .			25,577	\$20,772	4,356	\$3,558
15 - 20 . . . . .	17,427	\$13,449	23,313	232,826	157,799	121,769
21 - 25 . . . . .	34,954	23,595	280,550	192,022	77,483	52,620
26 - 30 . . . . .	41,373	25,508	177,919	113,953	69,923	40,906
31 - 40 . . . . .	60,135	32,733	471,065	263,217	369,212	177,227
41 - 50 . . . . .	49,732	21,459	378,979	175,262	476,766	196,274
51 - 67 . . . . .	128,506	45,912	526,302	205,229	956,258	329,357
68 AND OVER . . . . .	166,169	51,108	692,556	221,009	762,705	225,130
TOTAL . . . . .	498,296	213,764	2,847,062	1,429,290	2,874,682	1,146,330
PINK:						
15 - 20 . . . . .	1,085,243	827,308	117	95	1,423	1,164
21 - 25 . . . . .	1,997,700	1,430,002	330	222	1,242	686
26 - 30 . . . . .	2,887,568	1,913,125	6,545	4,045	2,484	1,506
31 - 40 . . . . .	7,174,377	4,260,394	17,409	9,339	7,186	3,716
41 - 50 . . . . .	4,604,349	2,297,399	28,466	12,777	7,327	3,036
51 - 67 . . . . .	3,073,882	1,227,138	12,671	4,929	9,934	3,544
68 AND OVER . . . . .	2,317,334	510,564	15,357	4,983	2,476	840
TOTAL . . . . .	23,140,453	12,465,930	61,095	36,390	32,072	14,492
WHITE:						
UNDER 15 . . . . .	140	115	3,035	2,568	-	-
15 - 20 . . . . .	55,965	45,429	468,770	390,182	132,726	97,771
21 - 25 . . . . .	156,366	119,717	587,419	449,365	368,209	248,625
26 - 30 . . . . .	230,026	148,307	199,289	135,007	244,264	140,738
31 - 40 . . . . .	146,492	104,102	174,377	103,427	117,205	57,234
41 - 50 . . . . .	131,821	56,140	100,222	49,293	81,332	37,339
51 - 67 . . . . .	225,526	82,494	116,116	28,645	94,611	37,032
68 AND OVER . . . . .	345,475	81,046	18,928	5,007	94,231	25,068
TOTAL . . . . .	1,336,771	637,118	1,624,166	1,164,134	1,127,579	644,007
SEA BOBS . . . . .	52,377	5,461	-	-	-	-
GRAND TOTAL . . . . .	25,027,697	13,322,273	4,552,323	2,629,814	4,034,333	1,804,829
SPECIES AND SIZE	LOUISIANA		TEXAS		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BROWN:						
UNDER 15 . . . . .	440,541	\$373,313	1,722,794	\$1,510,745	2,193,068	\$1,908,388
15 - 20 . . . . .	807,218	643,712	4,534,271	3,660,964	6,109,208	4,872,209
21 - 25 . . . . .	254,187	182,103	4,842,349	3,511,089	5,489,523	3,966,429
26 - 30 . . . . .	307,247	193,745	3,625,986	2,395,172	4,222,448	2,769,284
31 - 40 . . . . .	1,145,967	609,964	4,655,483	3,636,576	8,492,263	4,719,817
41 - 50 . . . . .	672,688	298,712	2,411,601	1,113,271	3,989,766	1,804,978
51 - 67 . . . . .	2,709,390	905,296	1,468,313	574,561	5,790,769	2,060,375
68 AND OVER . . . . .	3,674,173	918,069	578,574	136,248	5,674,177	1,551,584
TOTAL . . . . .	10,011,411	4,124,914	25,929,771	16,738,746	42,161,222	23,653,044
PINK:						
UNDER 15 . . . . .	-	-	76,173	66,787	76,173	66,787
15 - 20 . . . . .	-	-	534,961	415,815	1,621,744	1,244,382
21 - 25 . . . . .	-	-	472,902	331,030	2,472,174	1,761,940
26 - 30 . . . . .	-	-	329,353	213,807	3,225,950	2,132,833
31 - 40 . . . . .	-	-	979,734	582,393	6,109,000	4,655,842
41 - 50 . . . . .	-	-	713,686	599,000	5,353,828	2,471,212
51 - 67 . . . . .	-	-	446,602	222,095	3,543,289	1,457,706
68 AND OVER . . . . .	-	-	-	-	2,335,167	516,387
TOTAL . . . . .	-	-	3,553,411	2,230,927	26,807,031	14,747,739
WHITE:						
UNDER 15 . . . . .	386,911	346,834	131,625	113,756	521,711	463,293
15 - 20 . . . . .	3,553,909	2,944,589	2,042,899	1,601,700	6,254,269	5,079,671
21 - 25 . . . . .	3,005,744	2,217,770	1,752,054	1,613,756	6,413,751	4,617,751
26 - 30 . . . . .	2,325,445	1,489,223	2,076,986	1,309,640	5,076,010	3,222,915
31 - 40 . . . . .	5,493,260	2,663,717	2,859,077	1,544,098	8,826,362	4,670,346
41 - 50 . . . . .	3,498,278	1,542,115	1,150,489	502,643	4,962,142	2,189,530
51 - 67 . . . . .	4,064,613	1,687,940	965,782	380,375	5,422,648	2,116,486
68 AND OVER . . . . .	5,471,115	1,607,806	569,426	139,021	6,499,175	1,859,548
TOTAL . . . . .	27,800,275	14,599,994	12,089,055	7,173,287	43,977,846	24,218,540
SEA BOBS . . . . .	260,764	63,517	-	-	333,141	68,978
ROYAL RED:						
26 - 30 . . . . .	2,058	1,258	-	-	2,058	1,258
31 - 40 . . . . .	540	281	1,993	1,151	2,533	1,432
TOTAL . . . . .	2,598	1,539	1,993	1,151	4,591	2,690
GRAND TOTAL . . . . .	38,095,048	18,789,964	41,574,230	26,144,111	113,283,831	62,690,991

SEE NOTE ON PAGE 255.

# GULF FISHERIES

## GULF COAST SHRIMP CATCH BY AREA, DEPTH, AND SIZE, 1964

MAJOR WATER AREA, DEPTH, AND SPECIES	TRIPS	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 AND TORTUGAS: PINK	-	-	-	-	3,077	7,388	-	5,975	577	26,303	44,820	
0 - 5 FATHOMS: WHITE	-	1,350	-	-	255	330	2,406	816	2,576	280	2,895	
6 - 20 FATHOMS: BROWN	-	165	175	2,926	593	2,591	1,700	2,477	2,027	591	11,876	
PINK	-	242	593	1,116	601	2,591	1,626	2,477	2,027	591	1,560	
WHITE	-	1,560	-	63	743	82	695	55	533	4,921	495,736	
21 - 35 FATHOMS: PINK	-	66	357	1,722	558	1,722	743	82	695	4,921	-	
TOTAL.	-	8,532.6	-	1,100,694	1,204,037	2,672,201	2,464,626	2,610,860	2,059,015	12,424,228	-	
APALACHICOLA AREA:	-	-	-	-	-	-	-	-	-	-	-	
0 - 5 FATHOMS: BROWN	-	-	-	-	1,474	18,928	38,728	48,282	128,139	165,973	401,301	
PINK	-	-	-	-	9,643	18,928	38,728	48,282	128,139	165,973	401,301	
WHITE	-	140	15,33	37,901	151,701	151,319	169,363	154,698	154,152	120,316	639,345	
SEA BOSS	-	-	-	-	-	-	-	-	-	1,025,346	-	
6 - 20 FATHOMS: BROWN	-	-	-	-	-	-	-	-	-	345,720	-	
PINK	-	-	-	-	-	-	-	-	-	1,025,346	-	
WHITE	-	-	-	-	-	-	-	-	-	345,720	-	
TOTAL.	-	312,465	-	1,204,037	2,672,201	2,464,626	2,610,860	2,059,015	12,424,228	-	-	
PENSACOLA TO MISSISSIPPI RIVER:	-	-	-	-	-	-	-	-	-	3,172,332	-	
0 - 5 FATHOMS: BROWN	-	5	757	2,754	18,206	131,993	319,457	677,537	1,068,943	2,299,567	-	
PINK	-	-	1,206	194,870	484,783	345,731	651,590	616,025	614,577	1,068,943	-	
WHITE	-	-	-	-	-	651,590	419,677	512,339	444,224	3,017,665	-	
SEA BOSS	-	-	-	-	-	-	-	-	-	2,544,316	-	
BROWN	-	16,705	167,945	376	124	341	1,962	1,026	508	734,985	455,323	
PINK	-	-	-	-	-	1,157	281	17,750	1,147,199	1,147,199	455,323	
WHITE	-	-	-	-	-	1,157	281	17,750	1,147,199	1,147,199	455,323	
SEA BOSS	-	-	-	-	-	-	-	-	-	7,544	-	
BROWN	-	-	-	-	-	-	-	-	-	58,361	-	
PINK	-	-	-	-	-	-	-	-	-	1,542,343	-	
WHITE	-	-	-	-	-	-	-	-	-	49,355	-	
9,390	-	184,865	6,523	7,111	50	957	930	-	-	947	947	
105	-	5,339	6,324	1,471	1,56	1,56	1,784	-	-	785	261,657	
105	-	5,339	6,324	2,056	2,533	2,533	-	-	-	-	156	
TOTAL.	-	31,633.6	1,004,811	1,391,231	907,987	2,095,574	1,599,528	2,403,020	2,054,290	11,488,270	-	
MISSISSIPPI RIVER TO TEXAS:	-	-	-	-	-	-	-	-	-	-	-	
0 - 5 FATHOMS: BROWN	-	5	2,432	637	4,102	86,617	226,136	1,906,453	3,336,216	5,572,798	-	
PINK	-	-	97,163	1,654,866	1,701,749	3,947,395	2,724,621	3,354,787	3,354,787	3,354,787	921	
WHITE	-	-	-	-	-	-	-	-	-	4,947,393	-	
SEA BOSS	-	-	-	-	-	-	-	-	-	19,591,649	-	
BROWN	-	60,681	203,289	134,469	124,578	602,650	310,793	478,168	243,480	274,642	2,159,888	
PINK	-	-	-	-	-	-	-	-	-	2,159,888	-	
WHITE	-	-	-	-	-	-	-	-	-	7,544	-	
SEA BOSS	-	-	-	-	-	-	-	-	-	58,361	-	
BROWN	-	-	-	-	-	-	-	-	-	8,177,655	-	
PINK	-	-	-	-	-	-	-	-	-	1,652,650	-	
WHITE	-	-	-	-	-	-	-	-	-	3,870,955	-	
21 - 45 FATHOMS: ROYAL RED	-	-	-	-	-	-	-	-	-	-	29,036	
TOTAL.	-	-	-	-	-	-	-	-	-	-	-	
TEXAS COAST:	-	-	-	-	-	-	-	-	-	-	-	
0 - 5 FATHOMS: BROWN	-	13,40	4,880	1,471,232	1,399,468	9,441	73,675	145,115	565,183	806,373	-	
PINK	-	-	-	-	-	-	-	-	-	399,156	-	
WHITE	-	-	-	-	-	-	-	-	-	7,447,799	-	
6 - 20 FATHOMS: BROWN	-	272,987	1,237,681	2,643,423	2,763,912	4,087	1,723,649	1,723,649	1,723,649	1,723,649	14,570,433	
PINK	-	-	-	-	-	-	-	-	-	-	25,287	
TOTAL.	-	839,544	5,090,931	3,547,440	2,622,431	6,254,305	3,681,920	6,240,349	9,119,699	37,805,619	-	

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE.)

## GULF COAST SHRIMP CATCH BY AREA, DEPTH, AND SIZE, 1964 - Continued

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### GULF FISHERIES

MAJOR WATER AREA, DEPTH, AND SPECIES	TRIPS	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			
TEXAS COAST - CONTINUED:												
6 - 20 FATHOMS: WHITE, BROWN, PINK, WHITE.		87,838 276,504 250 95	916,524 2,119,439 5,097 4,540	527,334 1,116,306 5,509 5,490	321,214 297,881 481 766	331,659 415,811 3,931 2,236	63,574 170,922 5 66	39,187 94,857 5 346	1,187 - - -	2,268,537 4,491,720 15,273 13,570		
TOTAL.		51,693.5	551,314	4,813,216	5,771,765	4,793,536	7,515,303	2,974,822	2,154,215	979,499	29,654,670	
HIGH SEAS OFF MEXICAN COAST WEST OF 94° LONGITUDE:												
6 - 0 - 5 FATHOMS: WHITE, BROWN, PINK, WHITE.		41,873 1,036,911 1,032,372 6,607	90,659 21,915 1,180 -	70,861 1,021,505 1,180 -	20,553 2,557 455 -	80,368 5,906 335 -	32,720 5,934 261,055 1,124	5,216 1,098 35,485	- - -	342,360 54,079 4,737,330 6,180		
TOTAL.		2,492.0	1,092,761	1,196,036	973,268	482,366	1,092,369	233,493	42,549	-	5,162,682	
HIGH SEAS OFF OREGON AND CALIFORNIA:												
6 - 20 FATHOMS: BROWN, PINK, WHITE.		28,346 50,346 17,773 54,254 21,855 125	45,615 68,506 11,271 57,759 612,621 1,160	42,023 92,586 1,271 50,226 376,732 -	1,32,904 1,273,495 7,678 36,486 354,520	3,700,422 3,000,495 38,482 15,983 340,729	1,56,980 523,699 60 38,482 635,065	33,931 523,699 7,772 14,743	2,430 - -	345,393 1,159,277 24,672 2,351,286		
TOTAL.		1,257.5	173,665	1,515,731	1,398,265	1,695,167	4,479,600	2,409,001	580,145	2,430	12,253,404	
CARIBBEAN SEA SOUTH OF 21° NORTH LATITUDE:												
0 - 5 FATHOMS: PINK, WHITE.		-	-	1,215	3,880	12,713	-	-	-	-	17,713	
6 - 20 FATHOMS: BROWN, PINK, WHITE.		-	276	3,594	53,721	16,165	-	-	-	-	15,230	
21 - 30 FATHOMS: BROWN, PINK, WHITE.		50	16,041	36,643	30,967	6,152	94,457	-	-	-	457,734	
TOTAL.		89.7	50	20,397	49,062	7,610	6,792	538,158	575	-	90,310	
ATLANTIC OCEAN:				-	-	17,685	123,856	3,695	-	-	6,792	
6 - 15 FATHOMS: BROWN, WHITE.		-	-	-	-	-	901,343	95,991	-	-	694,279	
TOTAL.		2.0	-	-	-	-	242	-	160	-	21,360	
GRAND TOTAL.		237,113.0	726,729	13,975,546	14,377,976	12,578,206	26,567,481	14,221,150	14,712,279	15,044,090	113,265,457	

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 THOSE PRESENTED IN THE TABLE, WHICH REPRESENT LANDINGS AS A SINGLE TRIP IS SHOWN FOR EACH VOYAGE. ADDITIONAL TABULATIONS CONCERNING THE CATCH OF SHRIMP IN MORE DETAIL BY AREA, DEPTH, SIZE, AND SPECIES MAY BE OBTAINED UPON REQUEST FROM THE U. S. FISH AND WILDLIFE SERVICE, BUREAU OF COMMERCIAL FISHERIES, BRANCH OF FISHERY STATISTICS, WASHINGTON, D. C. 20240.

# GULF FISHERIES

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## SOUTH ATLANTIC AND GULF COAST SHRIMP LANDINGS, 1964

SPECIES AND SIZE	SOUTH ATLANTIC		GULF		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BROWN:						
UNDER 15 . . . . .	-		2,193,068	\$1,908,388	2,193,068	\$1,908,388
15 - 20 . . . . .	246,902	\$176,125	6,109,208	4,872,209	6,356,110	5,048,334
21 - 25 . . . . .	530,812	366,903	5,489,523	3,965,429	6,020,335	4,333,332
26 - 30 . . . . .	1,241,223	787,975	4,222,446	2,769,264	5,463,671	3,557,259
31 - 40 . . . . .	1,786,915	979,909	8,492,263	4,719,817	10,279,178	5,699,726
41 - 50 . . . . .	375,789	168,603	3,969,766	1,604,978	4,365,555	1,973,561
51 - 67 . . . . .	194,768	72,241	5,790,769	2,060,375	5,985,537	2,132,616
68 AND OVER . . . . .	27,079	7,340	5,874,177	1,551,564	5,901,250	1,558,904
TOTAL . . . . .	4,403,488	2,559,096	42,161,222	23,653,044	46,564,710	26,212,140
PINK:						
UNDER 15 . . . . .	-		76,173	66,787	76,173	66,787
15 - 20 . . . . .	61,066	43,229	1,621,744	1,244,382	1,682,810	1,287,511
21 - 25 . . . . .	91,692	61,382	2,472,174	1,761,940	2,563,866	1,823,322
26 - 30 . . . . .	129,123	83,145	3,225,950	2,132,483	3,355,073	2,215,626
31 - 40 . . . . .	388,744	225,682	6,176,708	4,855,842	6,567,454	5,081,524
41 - 50 . . . . .	246,411	110,808	5,353,828	2,712,212	5,600,238	2,823,020
51 - 67 . . . . .	274,596	103,179	3,543,289	1,457,706	3,617,885	1,560,885
68 AND OVER . . . . .	25,898	8,644	2,335,167	516,367	2,361,065	525,031
TOTAL . . . . .	1,217,530	636,069	26,807,031	14,747,739	26,024,551	15,383,608
WHITE:						
UNDER 15 . . . . .	-		521,711	463,293	521,711	463,293
15 - 20 . . . . .	165,744	145,724	6,254,260	5,079,671	6,240,013	5,225,395
21 - 25 . . . . .	1,167,714	910,623	6,413,529	4,617,751	7,581,243	5,328,374
26 - 30 . . . . .	1,175,366	830,571	5,075,010	3,222,915	6,251,376	4,053,486
31 - 40 . . . . .	1,302,211	824,558	8,828,362	4,670,346	10,130,573	5,494,904
41 - 50 . . . . .	711,420	380,127	4,962,142	2,189,530	5,673,562	2,569,657
51 - 67 . . . . .	580,161	245,317	5,422,648	2,116,486	6,002,809	2,361,803
68 AND OVER . . . . .	169,603	52,466	6,499,175	1,858,548	6,668,778	1,911,014
TOTAL . . . . .	5,272,219	3,389,386	43,977,846	24,218,540	49,250,065	27,607,926
SEA BOBS . . . . .	-	-	333,141	68,978	333,141	68,978
ROYAL RED:						
15 - 20 . . . . .	3,108	2,028	-	-	3,108	2,028
21 - 25 . . . . .	33,684	21,610	-	-	33,684	21,610
26 - 30 . . . . .	1,227	741	2,058	1,258	3,285	1,999
31 - 40 . . . . .	-	-	2,533	1,432	2,533	1,432
41 - 50 . . . . .	36,843	16,059	-	-	36,843	16,059
51 - 67 . . . . .	24,091	8,806	-	-	24,091	8,806
TOTAL . . . . .	99,153	49,244	4,591	2,690	103,744	51,934
GRAND TOTAL . . . . .	10,992,390	6,633,795	113,283,831	62,690,991	124,276,221	69,324,766

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 1.61 FOR BROWN, 1.54 FOR PINK, 1.53 FOR WHITE, 1.53 FOR SEA BOBS, AND 1.80 FOR ROYAL RED. THE STATES 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 (*Naupactus astecus*, AND IN SOME CASES *Penaeus brasiliensis*), PINK SHRIMP (*Penaeus duorarum*), SEA BOBS (MOSTLY *Xiphopenaeus kroyeri*), AND ROYAL RED (*Penaeus japonicus rostratus*). THE VALUE REPORTED IS THE AMOUNT RECEIVED BY THE OWNERS OR OPERATORS OF THE VESSELS FOR THE FIRST SALE AT THE DOCK. ALL 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

## SURVEY PROCEDURE IN THE GULF OF MEXICO

The statistical program in the Gulf States is under the general direction of the Bureau's Regional Office in St. Petersburg Beach, Fla., with direct supervision by a regional supervisor of statistics and market news in New Orleans, La. The program is prosecuted by field reporters stationed at Key West, Miami, Fort Myers, Tampa, and Apalachicola, Fla.; Bayou LaBatre, Ala.; Ocean Springs, Miss.; New Orleans, Galiano, Houma, and Morgan City, La.; and Port Arthur, Galveston, Freeport, Aransas Pass, Brownsville, and Port Isabel, Texas. These field reporters are specialists trained in obtaining and reporting fishery statistical data on a daily, monthly, and annual basis.

Statistics assembled by the Bureau on the fisheries of the Gulf States Coastal area include data on employment of fishermen, shoreworkers, fishing craft and gear, the volume and value of the catch, and the volume and value of processed fishery products. The data are assembled from all available sources including records maintained by State fishery agencies, fishermen, and fish wholesale dealers, buyers, and processors.

**Catch.** Cooperative programs of differing magnitudes have been established with the fishery agencies of each of the five Gulf States. Texas and Florida have State monthly reporting systems, whereby dealers and buyers are required to submit a monthly report on forms supplied by the State, listing the quantity of fish and shellfish by species purchased from fishermen. Field reporters of the Bureau of Commercial Fisheries assist in the collection and tabulation of data for publishing in monthly landing bulletins for these States. In Alabama, Mississippi, and Louisiana, tax records are utilized by Bureau employees in obtaining landing data on oysters. Certain catch records on fish landed in Louisiana are also obtained from records of that State. Data on receipts in the New Orleans French Market are collected by reporting specialists of the Bureau on a daily basis for use in the daily reports published by the Fishery Market News Service and are supplied the State of Louisiana at the end of each month. Information on all finfish, crab, and shrimp landings in Alabama and Mississippi is collected by Bureau employees.

Shortly after the close of each year, a revised tabulation is prepared listing the species catch by volume and value by county. Shrimp are excluded since they have been recorded on punch cards each month. Such revisions as are necessary in the daily or monthly data previously published are made in the annual tabulation. Fishermen and dealers are interviewed to determine the area of capture (water body) and the type of gear utilized for taking each species. When the interview is completed, the landings (or catches) totals are prorated to the proper waters and gear within each county, and catch statistics by waters and gear for each county are forwarded to the Washington office. The data are transferred to punch cards and machine processed. Detailed information on the shrimp catch, which had previously been entered on punch cards is now integrated with the figures for other species. Processed data are forwarded to field reporters for examination, auditing, and necessary revisions, after which they are returned to the Washington office for final review and publication.

Throughout the Gulf, shrimp data are obtained daily by Bureau reporting specialists and recorded on individual landing reports that list the name of the vessel and the volume and ex-vessel value of the catch by species, size, and area of capture. A schedule is prepared for each vessel for each trip. These are forwarded to the Washington office, about 2 weeks after the end of the month in which the landings occurred. The data are machine processed to provide the detailed statistical information required by those interested in the shrimp fishery.

During recent years, there has been a trend toward obtaining catch data on a monthly basis in sufficient detail to permit their direct use in the annual Statistical Digest. In the States of Alabama and Mississippi, data on the catch by gear, water, and species are ob-

## GULF FISHERIES

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tained on a monthly basis and entered on punch cards from which are prepared the monthly landing bulletins. The punch cards are then utilized to prepare the annual tabulations for publication in Fishery Statistics of the United States. Considerably more detail on the catch by waters and gear is available than is published in this report.

Operating units. Prepunched vessel cards containing the name of the vessel, the official number, rig code, gross tons, length, and year built are furnished field reporters each year. These cards are obtained from the Bureau of Customs and are checked out by field personnel. Reporters interview the vessel captains to obtain number of crew, and number, type, and quantity of gear utilized in each fishery. The number of crew reported is the greatest number of crewmen aboard the vessel for each gear operated at any one time. Number and quantity of gear are represented by the greatest amount of gear the craft utilized at one time. The data do not include gear ashore or carried aboard the vessel for replacement. Field reporters maintain a list of the fishing vessels obtained from the State records to ensure completeness in the operating unit survey. Machine tabulations of shrimp landings are utilized to obtain the vessels fishing this species during the year. A vessel is reported once for each type of gear fished in each State.

Data on crew and gear are recorded directly on the prepunched cards. (Data on all craft of less than 5 net tons are classified as shore and boat craft, and a single card is prepared for the total number of boats using each type of gear in each county). The field entries are punched and processed in the Region under contract by a service agency and the tabulations are returned to each reporter who prepares the State operating unit tables. After review by the Regional Supervisor, they are forwarded to the Washington Office.

Processing and Manufacturing. Data on the production of processed fishery and manufactured products are obtained from individual firms, on forms designed for the collection of these data. Much of the information on the pack of canned shrimp, oyster, and crab meat by can size and number of cases is obtained and published each week in the New Orleans Market News report. Subsequently, revisions are made, and a yearly annual total by firm is submitted to the Central Office for publication in the Canned Fishery Products bulletin. Information on the production of fish meal, oil, and solubles is obtained each month for publication in monthly Fish Meal and Oil bulletins and in the annual report, Industrial Fishery Products. Data on the monthly production of fish sticks and portions and breaded shrimp are collected quarterly for publication in Fish Sticks and Portions and Breaded Shrimp. Packaged fish and shellfish data are obtained on an annual basis from each firm, and summaries are published in the annual Packaged Fishery Products bulletin. A summary of the production of all processed fishery items, including shellfish, is contained in the Gulf States sectional annual bulletin.

Data on freezings and holdings of fishery products are collected monthly on a special form which is mailed at the end of the month to each cold storage warehouse in the Gulf States. After auditing, the completed reports are returned to the New Orleans office. The schedules are then mailed to the Washington Office where they are again reviewed before tabulation and publication in monthly and annual frozen fishery products bulletins.

General. A considerable quantity of current fishery data are available in the daily report issued by the New Orleans Fishery Market News Office. Persons interested in day-to-day fluctuations should consult these reports. Those interested in seasonal fluctuations should refer to the monthly landing bulletins. The Statistical Digest, Fishery Statistics of the United States contains the most complete annual data. Information on the catch by waters is tabulated and supplied to State and Federal laboratories along the Gulf Coast.

## SECTION 7 - PACIFIC COAST FISHERIES

In 1964, the commercial fisheries of the Pacific Coast States yielded a catch of 1.2 billion pounds valued at \$129.3 million--a gain of 34.9 million pounds (3 percent) and \$5.2 million (4 percent) compared with the previous year. Landings of salmon, king crabs, and sea herring increased substantially, but tuna, halibut, jack and Pacific mackerel, and shrimp were less.

The Pacific Coast States accounted for 25 percent of the volume and 33 percent of the value of the total U.S. catch. They were second only to the Gulf Coastal States in quantity and led all other areas in value. California was first in volume of landings with 500.9 million pounds (43 percent), followed by Alaska, 492.6 million (43 percent); Washington, 100.9 million (9 percent); and Oregon, 57.2 million pounds (5 percent). Alaska led in value with \$56.0 million (43 percent); followed by California, \$50.7 million (39 percent); Washington, \$15.6 million (12 percent); and Oregon, \$7.0 million (6 percent).

Fishermen and vessels. There were 33,099 commercial fishermen on the Pacific coast--513 less than in 1963. There were 4,567 vessels of 5 net tons or more--a decrease of 224 compared with 1963.

The largest U.S. vessel built for fishing, the City of Tacoma, a 167-foot tuna seiner with a carrying capacity of 800 tons, entered the Eastern Pacific tuna fishery in 1964. This vessel is the third of a new class of steel tuna vessels designed exclusively for seining tuna. Its capacity is about 50 tons greater than for the other seiners of its class, Hornet and Caribbean, built in 1963. The Day Island, a converted military craft larger than the City of Tacoma, landed about 1,080 tons of tuna in Puerto Rico in 1964--a record for a U.S. vessel.

Processing. Processed fishery products on the Pacific coast were worth \$350.0 million in 1964--\$24.4 million (8 percent) more than in the previous year. California led with 50 percent of the total, followed by Alaska, with 34 percent. Alaska showed the greatest percentage gain, with the value of its processed products 25 percent more than in 1963--principally the result of increases in the production of fresh and frozen king crab meat and canned salmon.

Several events profoundly affected processing in the Pacific Coast States during the year. The earthquake in Alaska destroyed or severely damaged king crab and razor clam canning facilities, thus reducing the pack of these items. The use of liquid nitrogen in freezing had an impact on preservation of fishery products and continued improvement in processing and handling of shrimp extended the market for these shellfish.

The tuna industry recovered from an unfortunate bacterial contamination scare in the previous year, and the volume of the pack increased 2 percent while the value rose 3 percent. Albacore and light meat tuna were packed in greater quantities despite a decline in landings of albacore, bluefin, and skipjack tuna. The increased pack was accomplished through large increases in imports of albacore and in the catch of yellowfin.

The pack of canned salmon in Alaska was nearly 900,000 cases more than in 1963, whereas the Puget Sound production declined 436,000 cases. The greater Alaska pack was caused by sharply increased runs of chum, pink, and red salmon, whereas the normal even-year absence of pink from Washington waters caused the decline in Puget Sound. The large packs of pink salmon--over 1,900,000 cases in both 1963 and 1964--resulted in heavy stocks of these fish. Sharp declines in price were made to move the fish.

The decline of 20,000 cases below the previous year's pack of king crab was caused principally by the Good Friday earthquake, which destroyed or severely damaged crab processing facilities. Three canneries were considered a total loss, and several others were temporarily out of operation. Although freezing facilities were also crippled, the production of fresh and frozen meat set new records. This product has become increasingly popular over the past decade.

# PACIFIC COAST FISHERIES

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A decline in the production of Dungeness crab meat was caused primarily by a shortage of crabs in Washington, Oregon, and California. Alaska has been steadily increasing its harvesting of Dungeness crabs; however, the earthquake curtailed operations in 1964.

The pack of canned shrimp declined to 47,100 cases, nearly 39,000 cases less than in 1963. The decline is believed by industry spokesmen to have been caused primarily by competitive conditions from the South Atlantic and Gulf shrimp.

The State of Alaska has been endeavoring to improve its shellfish harvesting because it provides more stable year-round employment and income than does the short seasonal salmon fishery.

Production of fresh and frozen fillets was but slightly lower than in the previous year.

High seas fishery. Pacific coast fishermen captured 281.8 million pounds of fish on the high seas off coasts of foreign countries--24 percent of the total catch. The tuna catch taken off Central and South America (slightly more than in 1963) accounted for 58 percent of the total U.S. landings off foreign coasts and 21 percent of the Pacific coast production. In 1964, Pacific coast fishermen ranged farther than those of any other area, operating from the Bering Sea to waters off Peru, and also off Atlantic Coast States.

Tuna. The catch of Pacific coast tuna (286.3 million pounds) was 4 percent less than in 1963, and the value (\$36.8 million) declined 2 percent. A marked reduction in landings of albacore, 48.1 million pounds (down 12.7 million); bluefin, 23.2 million (down 7.2 million); and skipjack tuna, 66.0 million (down 30.6 million) accounted for the decline. The 149.0-million-pound yellowfin production, however, increased 39.4 million pounds (36 percent) from 1963 levels, but the gain was not enough to offset reduced landings of other tuna.

The 1964 run of albacore off the Washington and Oregon coasts was light. Although Washington landings of 1.1 million pounds were more than double those of the previous year and the largest since 1959, the Oregon production declined from 11.4 million pounds in 1963 to 4.5 million. In California, albacore landings of 42.5 million pounds were 6.3 less than in 1963. The 1964 California albacore season got off to a slow start in early July, with landings reaching a seasonal high during mid-August. Although the fish were widely scattered from late August through September, good catches were made from Morro Bay north to the Eureka and Fort Bragg areas until high winds and rough seas curtailed fishing. Late in October, fishing was resumed. The focal point was in central California waters where bait boats continued to make excellent catches to the season's end. In November, late unseasonal landings established a record high for that month.

The California ex-vessel price for albacore opened at \$325 per ton--the same as in the latter part of 1963. The price remained fairly steady throughout the year, and no fishing time was lost because of price disputes.

Yellowfin landings in California (149.0 million pounds) were larger than in the previous 2 years, but well below the record of 191.9 million pounds taken in 1961. The Inter-American Tropical Tuna Commission recommended a catch quota to conserve yellowfin tuna. The quota, which was scheduled to become effective in July 1964, could not be established because all countries participating in the fishery were not in agreement.

Although the domestic catch of tuna was less in 1964 than in 1963, imports of tuna for canning were up sharply, and the total 1964 U.S. tuna pack was a record 17.7 million cases valued at \$217.6 million. The pack in the Pacific Coast States (California, Oregon, and Washington) was 10.8 million cases valued at \$131.8 million, an increase of 2 percent in quantity and 3 percent in value compared with 1963. The California tuna pack was 53 percent of the total U.S. canned tuna production, 2 percent less than in 1963.

## PACIFIC COAST FISHERIES

**Salmon.** The year 1964 marked an important milestone in the salmon industry. It was just 100 years earlier in 1864, that three enterprising fishermen from Maine--William and George Hume and Andrew S. Hapgood--with a makeshift cannery located on a barge in the Sacramento River, California, first successfully canned this important seafood. Despite a declining resource and other problems besetting the industry, it is still the second most important seafood item canned in the United States. During the past 12 years, production of canned salmon averaged 3,471,500 cases (166,600,000 pounds) annually. This is a far cry from the heyday of the industry during the 1930's when the pack averaged nearly 7,000,000 cases. The 1964 pack was below expectations. Lower than predicted runs of red salmon in Bristol Bay, an off-year cycle for pinks in Puget Sound, and the sale of 14 million pounds of Central Alaska pinks to the Japanese prevented the pack from reaching anticipated higher levels. The sockeye run was a disappointment in Bristol Bay as well as in Puget Sound, the two chief sources of these fish. The decline in Bristol Bay was caused chiefly by the weak run in Kvichak, although other streams in the Bay were about up to expectations. The 1964 run was larger than in 1962 or 1963, but fell short of predictions, thus causing hardships on the industry that had made preparations for a run about the size of the one in 1961. In Puget Sound, it was a low-cycle year for Fraser River sockeye. Hughearth slides in the Chilcotin River Canyon in late August all but blocked the stream, but water finally broke through and the sockeyes were able to reach their spawning grounds. A surprising development in the Washington sockeye run was the strong early run to Lake Washington in the heart of Seattle via the locks in the ship canal. It was estimated by scientists that more than 60,000 of these fish spawned in Cedar River after spending several months maturing in Lake Washington. The Skagit River in Washington also had a good sockeye run. The sockeye catch by Washington coast Indians fell sharply, totaling only 92,330 pounds compared with 341,400 in 1963.

Pink salmon continued to dominate the Alaska catch for the fourth straight year. The pack would undoubtedly have been about 200,000 cases higher had not the Japanese purchased pink salmon in Prince William Sound. In the late summer, after a price disagreement between fishermen and canners, Governor William Egan invited the Japanese to enter the Sound and purchase fish direct from U.S. fishermen--an event unheard of in U.S. fishery annals. The situation was brought about because locally established canners in the Prince William Sound area felt they could not pay prices demanded by the fishermen and market the canned product profitably.

Elsewhere along the Alaska coast, price agreements were reached and pinks were again packed in volumes surpassing the previous year. Even in Western Alaska, the pack reached 68,000 cases, the largest pack since 1959. In Central Alaska, the pack of pink salmon surpassed 1963 by more than 350,000 cases but fell short of the 1962 pack by 278,000 cases. In Southeastern Alaska it was the same--heavy runs of pinks provided the bulk of the 1964 pack, despite a very slow starting season.

Silver salmon staged a comeback in such strength that the catch was the highest since 1954. Chum salmon were also more plentiful. Even in Western Alaska the runs showed remarkable strength.

The trolling season in Washington and Oregon opened April 15, after a 1-day strike. Uniform port prices were set at 68 cents a pound for large kings, 50 cents for medium, and 37 cents for small red kings. The beginning price for troll-caught silver salmon in Washington and Oregon was 30 cents per pound but was revised upward in successive steps to 43 cents at the end of the season. A considerable portion of the troll-caught silvers in Washington and Oregon was marketed through a cooperative pool.

The price of canned salmon declined in 1964. Following the large Alaska pack of pinks, the industry was hard pressed to market the pack at a profit. Tall pinks sold mostly at almost \$20 per case--about \$1.00 under 1963 prices. Chums, also in oversupply, sold mostly for more than \$17 per case as compared with about \$20, the previous year.

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The fishing industry of the Columbia River received a tremendous morale boost in 1964. The voters of Oregon, by almost 3 to 1, defeated a measure, sponsored by sport fishing interests, which would have outlawed commercial salmon fishing on the Columbia River.

**Halibut.** U.S. halibut landings during 1964 were 35.0 million pounds (round weight) valued at \$5.9 million--a decline of 10.5 million pounds and nearly \$1.0 million compared with the previous year. Landings in Alaska were 22.8 million pounds valued at \$3.6 million. The volume declined 24 percent and the value 14 percent compared with 1963; however, the average price was almost 2 cents per pound more than in the previous year.

Landings of halibut at Washington ports by U.S. craft were 12.1 million pounds valued at \$2.3 million to the fishermen. This was a decline of 3.3 million pounds from 1963. The landed value did not decline proportionately: Washington landings averaged 25.4 cents per pound (dressed weight) compared with 23.1 cents in the previous year. Halibut landings at Washington ports by Canadian vessels dropped sharply to only 3.7 million pounds (round weight) compared with 5.7 million pounds in 1963. The decline in Washington halibut landings was due to both a smaller fishing fleet (92 Washington-Oregon vessels compared with 101 vessels in 1963) and higher prices paid at Alaska ports. Prices at Ketchikan averaged 22.4 cents a pound (dressed weight), only 12 percent less than those at Seattle, compared with a differential of nearly 15 percent in 1963. The main reason though, for the decline in U.S. halibut landings was the smaller fleet. Many vessels dropped out of the fishery in favor of salmon, crab, or other fisheries when it became apparent that halibut was scarce in many areas. The U.S. Alaska fleet of 179 vessels operated 6,203 skates of halibut gear compared with 289 vessels and 8,969 skates of lines in 1963. While the Canadian fleet also declined in numbers, it included several large new vessels that were very productive--with the result that Canadian fishermen caught 56 percent of the Pacific halibut catch in 1964 compared with 52 percent in 1963.

Halibut catch quotas for 1964 were reduced in certain areas. The quota for Area 3B North (Bering Sea Triangle) was set at 6.4 million pounds (dressed weight), down 4.6 million from 1963. The season opened in this area on March 25, and a large number of vessels fishing there failed to get one full fare. The total catch from that area was only 2.1 million pounds. It was the only area in which Japan was permitted to share in the halibut fishery with the United States and Canada. The Japanese vessels caught less than 300,000 pounds. The catch failure in 3B North proved that it had been overfished during the previous season. Only 400,000 pounds of halibut were caught by United States and Canadian vessels in other areas of the Bering Sea (Area 3B North). A quota of 4.0 million pounds was set for Area 3B South (North Pacific area west of Shumagin Islands), which previously had no catch limit, and it was the only area that attained its full quota. Halibut fishing opened on April 6, in Area 3B South and on May 1, in both Area 3A and Area 2. The catch quota for Area 3A remained unchanged at 34.0 million pounds; the August 19 closure for this area did not permit the full quota to be taken by 700,000 pounds. The combined halibut catch for Areas 3A and 3B South was nearly 38.0 million pounds. The Halibut Commission has calculated this to be the maximum sustainable yield. Following the decline in Area 2 halibut production in 1963, the 1964 catch limit was reduced 3.0 million pounds to a quota of 25.0 million pounds. Unusually bad weather and a smaller fishing fleet resulted in the Area 2 season extending through the full maximum period, to September 15, with the catch still 5.0 million pounds short of the quota. Areas 3B North and 3B South remained open to halibut fishing until October 15. Early season fishing was poor in Area 3B South, but a few vessels fished there after Area 3A closed and brought to Seattle some large catches which sold at premium prices of nearly 30 cents a pound. Oregon halibut production was 137,000 pounds (round weight)--not quite half that of 1963. Only 6 craft were longlining from Oregon ports.

**Sablefish.** Several Washington and Oregon halibut vessels entered the sablefish fishery in the fall of 1964. Although Area 2 remained open to halibut fishing until October 15, halibut were scarce and sablefish were more profitable. Longliners landed 1.5 million pounds of

## PACIFIC COAST FISHERIES

sablefish (dressed weight) at Washington ports in 1964--about the same as in 1963. The Oregon production of 100,000 pounds (dressed weight) was rather light. The market for large sablefish was strong in the fall of 1964, and many catches sold for more than 26 cents a pound, whereas the average for the year was 22.2 cents (dressed weight) for all line-caught sablefish in Washington--about 2 cents more than in 1963.

Mackerel, Pacific and jack. On January 1, 1964, the mackerel fleet was tied up because of the vessel owners' demands for an increase of \$10 per ton for the fish. The vessels remained tied up until February 26, when a compromise settlement was reached. The agreement was to pay \$47.50 per ton--up \$5.00. Based on the monthly catch records for 1963, the loss was estimated at nearly 20.0 million pounds. On December 19, the fleet again tied up requesting an increase of \$12.50 per ton which would bring the price to \$60.00 per ton. As the year ended, the dispute had not been settled, but the tie-up had little effect on the catch since it came during the Christmas and New Year holidays, and the "Light of the Moon Period".

The 1964 mackerel catch was almost entirely in Southern California waters, with almost no production in the Monterey area. The catch in Monterey Bay has not been substantial since 1959. In previous years, Monterey Bay had large runs of jack mackerel during the summer and fall. The 1964 catch was not materially restricted by small nightly catch limits as in 1963, because these had either been liberalized or removed entirely.

Ocean perch. Landings of ocean perch were 21.0 million pounds in 1964, down 2.6 million pounds or 11 percent from the record high in 1963. This was a sharp reversal for this fishery which had shown such remarkable growth during the past 5 years. The decline occurred entirely in the State of Washington where landings dropped from 15.6 million pounds in 1963 to 11.3 million pounds in 1964. Oregon on the other hand continued its steady gain up 1.7 million pounds over the previous year's total. A scarcity of fish on the usual fishing grounds contributed mostly to the decline.

Sardines. The 1964 catch of Pacific sardines was 13.1 million pounds, almost twice the 1963 catch. The season began on September 1, with great expectations. Over 5.0 million pounds of sardines were taken the first night of the season off San Nicholas Island, and an additional 1.0 million were caught during the following 2 nights. These quick catches were nearly half the year's total, and only small amounts were taken during the remainder of the year. Four canneries operated on Terminal Island and one at Moss Landing, near Monterey. The 1964 catch was about 1 percent of the 1.5 billion pounds taken in 1936, the peak year of this fishery.

Crabs. Landings of crabs along the Pacific coast were 110.0 million pounds valued at \$12.2 million. This was 6.2 million pounds more than in the previous year. The catch of king crabs established a new record yielding a catch of 86.7 million pounds--over four and one-half times the catch of 5 years earlier and nearly ten times the production in 1954. The Aleutian Islands area was the area of high production in 1964 with a catch of 33.6 million pounds--twice the 1963 production. The greater catch in this area resulted from an increased number of floating processors, a shifting of vessels to the area because of the loss of processing facilities in Kodiak due to tidal wave damage, and the natural growth of the fishery during the past several years. Despite an earthquake and seismic wave, the Kodiak area was the second highest king crab producer, with a catch of 29.6 million pounds. The Alaska Peninsula area followed with 15.0 million pounds and the Cook Inlet area with 6.9 million pounds. The remainder was distributed between Chigmit, Prince William Sound, and Southeastern Alaska.

The Good Friday earthquake cost the Alaska king crab fishery a considerable production. Only by moving in floating equipment was the industry able to process the increased catch.

Of considerable importance to the crab industry was the signing on December 14th of an agreement between the United States and the Soviet Union designed to minimize damage to the fishing gear of U.S. crab fishermen in the Kodiak Island area of Alaska by Soviet trawlers operating in the area. The treaty provides for the establishment of a number of areas in the vicinity of Kodiak Island in which mobile gear will not operate during July-October, inclusive, and establishes procedures for amending, by mutual agreement between the Chief of the Soviet fishing fleet and local United States fishery officials, the boundaries of these areas or the period during which they are reserved for fixed gear. It also provides for establishing other new areas by mutual agreement.

In addition, the agreement establishes a system of direct radio communication between the Soviet fleet and fishery officials in Alaska. This system can be used for reporting to the Soviet fleet the positions of the United States king crab vessels outside of the areas mentioned above, so that special precautionary measures can be taken to avoid damage to the crab gear. Under the provisions of the agreement, the United States will undertake special research in cooperation with the Soviet Union to develop more effective means of marking and detecting fixed gear of various types.

The 1964 catch of Dungeness crabs in the Pacific Coast States was 23.0 million pounds, valued at \$4.0 million--a decline of 1.8 million pounds and \$314,000 compared with the previous year.

Landings of Dungeness crabs in Alaska were 12.7 million pounds, topping the 1963 record catch by 600,000 pounds. Southeastern Alaska led with 4.6 million pounds, followed by the Kodiak area with 4.3 million pounds, and 3.4 million pounds in the Prince William Sound--Copper and Bering Rivers area. The Alaska Dungeness crab resource has been harvested with increasing intensity in the past few years because these crabs have been scarce in Washington, Oregon, and California.

Dungeness crab production declined in both Washington and Oregon. The Washington catch of 5.2 million pounds was down 23 percent from 1963, whereas crab production in Oregon was only 3.4 million--down 19 percent from the previous year and the lowest in nearly 30 years. Crab production in Puget Sound continued at the relatively high level it has maintained for the past 5 years, totaling 1.6 million pounds; landings on the coast continued to decline. With the shortage came higher prices, which reached 30 cents a pound at Oregon coastal points. The 1964 average in Oregon was 24 cents per pound--up 3 cents from the previous year.

Dungeness crab production in California (1.8 million pounds) was slightly less than in the previous year, and far below the high 1956-60 average of 16.6 million pounds.

**Shrimp.** The 1964 catch of shrimp in the Pacific Coast States was only 14.5 million pounds, 6.8 million pounds less than in 1963. The Alaska catch declined from 15.1 million pounds in 1963 to 7.7 million pounds. The cause of the decline seemed connected with the loss of markets and processing facilities rather than a scarcity of shrimp. In Washington, the catch declined from 1.0 million pounds in 1963 to only 384,000 pounds. Only three vessels landed shrimp at Washington ports during 1964. Shrimp seemed to have disappeared almost completely from the coastal waters of Washington but were somewhat more abundant in Oregon where the catch was 5.3 million pounds--up 2.3 million pounds from the previous year. Except for a small canned pack at Warrenton, all the Oregon shrimp were cooked and hand peeled for the fresh and frozen market. Most of the California pack was handled similarly.

Despite the reduced catch in 1964, the Pacific coast shrimp industry in the past 5 years has progressed rapidly in improving production and processing of this popular seafood item.

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Oysters. Oyster production in the Pacific Coast States in 1964--10.0 million pounds valued at \$2.6 million--was up 2 percent in volume and 7 percent in value compared with the previous year. Pacific oyster production showed a slight gain in Washington with 8.3 million pounds of oyster meats, compared with 8.1 million pounds in 1963. This was considerably better than had been expected because Pacific oysters have had their share of troubles. Late in 1962 a wind storm did extensive damage to some oyster beds. Then it was discovered by scientists that 3-year-old oysters were dying from an unknown cause. In addition the cost of Japanese oyster seed has been rising and the beds have had no natural set of importance since 1958. Another serious blow came in the form of a tidal wave that followed the Alaska earthquake of March 27. Finally, pollution, particularly from pulp mills, has continued to be a threat to the industry.

The fresh and frozen market for Pacific oysters was strong, so canning of both stew and oysters was curtailed. The Washington pack of stew was 114,500 cases, whereas the pack of Washington and Oregon canned oysters was 62,354 cases--down 32 and 16 percent respectively from 1963. The Oregon oyster production, adversely affected by the tidal wave and flood silting, yielded 335,000 pounds of meats--13 percent less than in the previous year. Prices for both canned and fresh Pacific oysters increased in 1964. Western (Olympia) oyster production increased slightly to 34,000 pounds of meats compared with 31,000 pounds in 1963; whereas prices returned to a more normal level averaging about \$23.00 per gallon wholesale, compared with about \$28.00 in 1963. California oyster production (1.4 million pounds) increased slightly over the previous year. All oysters produced in California were marketed fresh or frozen.

Clams. The Pacific coast clam production declined from 784,000 pounds in 1963 to 589,000 pounds in 1964 as a result of the Alaska earthquake and dwindling supplies. Higher prices caused increased competition from imported clams. The Alaska earthquake not only destroyed one of the largest canneries in Alaska, but did severe damage to the clam beds. Many of the productive beds in the Copper River and Prince William Sound areas were left high and dry, and only time will tell whether clams survived on nearby areas.

Washington razor clam production dropped to the lowest level in nearly 15 years with a commercial take of only 167,000 pounds of clam meats. Shortly after the season opened, the Copalis Beach area was heavily polluted with oil from a stranded oil barge and all digging was suspended. Although a heavy clam mortality was expected, it was subsequently found that little damage was done to razor clams, and sport diggers had a very good season after the beaches were reopened. Most of the commercial razor clam catch was taken by Indians from the reservation beaches and was rather insignificant by comparison with the personal use catch which may have exceeded it by as much as 10 times. Hard shell clam production, chiefly little neck and manila clams from Puget Sound clam farms, was down slightly from the 386,000 pounds taken in the previous year.

Whaling. During the 1964 whaling season, the Del Monte Fishing Company and the Golden Gate Fishing Company operated their two shore stations on Point San Pablo, Calif. and Bio-products, Inc., operated one plant at Warrenton, Oreg. As in previous years, Del Monte used the catcher boats Allen Cody, Dennis Gayle, and Donna Mae, and Golden Gate used the Lynnmann and Sioux City, and Bioproducts used the Tom and Al. The whaling season remained the same as in previous years--April 1 to November 30, inclusive, for sperm whales and April 16 to October 15, inclusive, for other whales.

In 1964, 274 whales were caught--15 more than in the previous year. The season was marked by a large influx of fin whales into the area off San Francisco--apparently because of an abundance of krill (Euphausia pacifica), their preferred food. As a result of their unusually long stay in these waters, 147 whales were taken--126 more than in 1963 and the largest catch of fin whales in 25 years. In 1964, the usual autumn passage of a few blue whales off the coast did not occur, despite an abundance of food.

In addition to the species regularly taken, 20 gray whales were captured for research purposes by the California stations under a special permit issued to the Director of the Bureau's Marine Mammal Biological Laboratory.

The Scientific Committee of the International Whaling Commission, through its North Pacific Working Group, continued studies aimed at formulating rational management plans for North Pacific whale stocks. Scientists of the United States, Canada, Japan, and the Union of Soviet Socialist Republics cooperated in these studies.

**Foreign Fishing Activities.** The North Pacific Ocean, Gulf of Alaska, and the Bering Sea are areas of increasing Soviet and Japanese fishing effort. During 1964, for example, the Food and Agriculture Organization of the United Nations reported 10.6 billion pounds (live weight basis) taken north of lat. 40° N. in the North Pacific and Bering Sea. Of that amount, the United States took less than 750,000,000 pounds or less than one-tenth of the total take.

The 1964 figures reflect the 5th consecutive year of increased activity by the Soviet fleet. About 490 Soviet vessels, some of them the world's most modern and efficient craft, operated in the waters off the coast of Alaska--over 100 more than in the previous year. This expansion, which began in earnest in 1959 in the Bering Sea, extended into the Gulf of Alaska, as far as the Southeastern coast of Alaska. Some of the increase may have been the result of a decline in the herring catch in the Barents Sea and a movement of vessels to central Bering Sea, where exploratory work by the Soviets had pinpointed new and unexploited stocks of herring. This fishery which began in 1959 has increased in intensity each year.

In 1964, the Japanese operated about 700 vessels in the North Pacific and Bering Sea in waters off the Alaska coast. Certain readjustments in the Japanese fleet and the shifting of emphasis undoubtedly had little effect on the effort expended in the area. More emphasis was placed on the production of fish meal, and the number of factory ships operating in shrimp, groundfish, and halibut fisheries were reduced. Fish meal production increased considerably as a result of the shift.

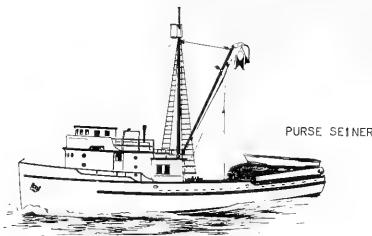
The Japanese fleet consisted of about 24 shrimp vessels, 119 fish meal, 95 groundfish, 16 halibut and sablefish, 14 crab, 4 ocean perch, 34 whaling, and 380 salmon vessels.

While the U.S. catch was stabilized in the area, the foreign vessels continued to expand their harvesting operations.

**Further Information.** 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. 4002. 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, Calif., and Seattle, Wash. Specific data on several of the major fisheries of the Pacific coast may be found in Section 12 of this publication.

**Acknowledgments.** The following organizations assisted the Bureau to collect the data appearing in this section: Alaska Department of Fish and Game, Washington Department of Fisheries, Oregon Fish Commission, and California Department of Fish and Game.

# PACIFIC COAST FISHERIES



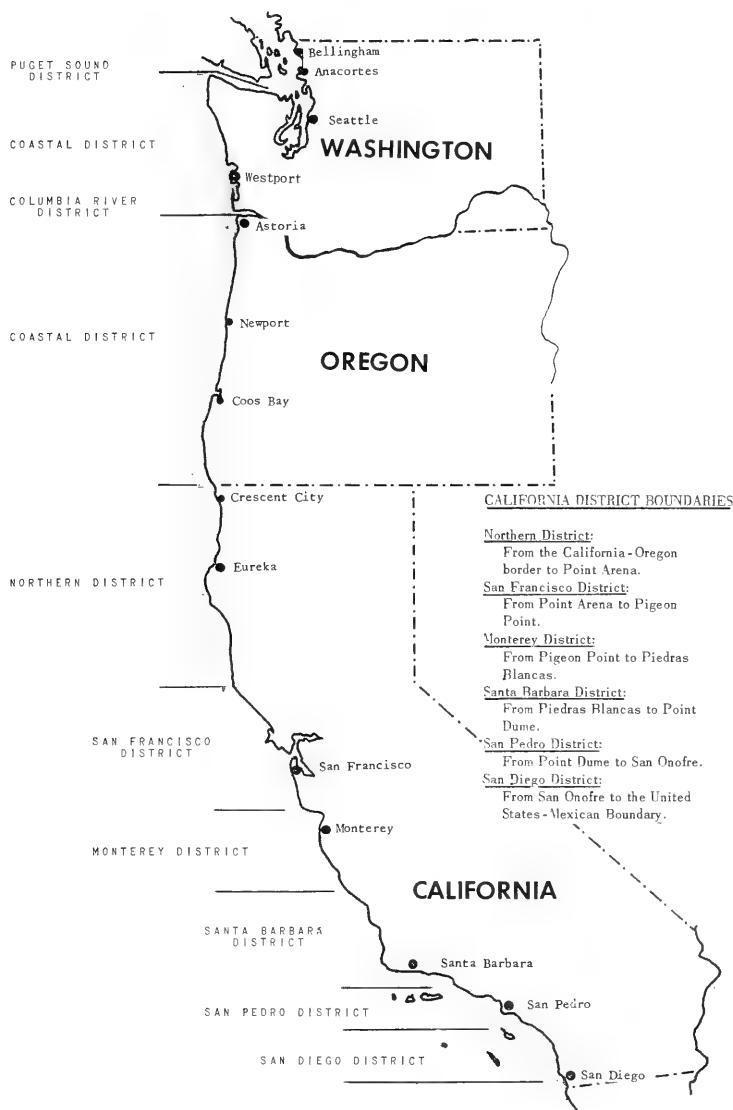
## PACIFIC COAST STATES



# PACIFIC COAST FISHERIES

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## PACIFIC COAST STATES - Continued



# PACIFIC COAST FISHERIES

## SECTIONAL SUMMARIES

### SUMMARY OF CATCH, 1964

(MILLIONS OF POUNDS AND MILLIONS OF DOLLARS)

STATE	FISH		SHELLFISH, ETC.	
	QUANTITY	VALUE	QUANTITY	VALUE
ALASKA . . . . .	385	46	108	10
WASHINGTON . . . . .	87	11	14	4
OREGON . . . . .	48	6	9	1
CALIFORNIA . . . . .	468	48	22	2
TOTAL . . . . .	988	111	153	17

STATE	WHALE PRODUCTS		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE
ALASKA . . . . .	-	-	493	56
WASHINGTON . . . . .	(1)	(1)	101	15
OREGON . . . . .	11	1	57	7
CALIFORNIA . . . . .			501	51
TOTAL . . . . .	11	1	1,152	129

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

### SUMMARY OF OPERATING UNITS, 1964

ITEM	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	
FISHERMEN:					
ON VESSELS . . . . .	8,036	3,646	1,339	5,245	15,767
ON BOATS AND SHORE . . . . .	9,100	4,082	1,247	2,903	17,332
TOTAL . . . . .	17,136	7,728	2,586	8,148	33,099
VESSELS, MOTOR . . . . .	2,030	1,250	623	1,508	4,567
GROSS TONNAGE . . . . .	49,295	29,010	13,743	73,142	141,168
BOATS:					
MOTOR . . . . .	8,240	2,327	963	1,869	13,278
OTHER . . . . .	-	248	19	-	267
GEARS:					
HAUL SEINES . . . . .	-	110	4	5	119
LENGTH, YARDS . . . . .	-	6,635	400	1,100	10,135
PURSE SEINES AND LAMPARA NETS:					
ANCHOVY . . . . .	-	-	-	24	24
LENGTH, YARDS . . . . .	-	-	-	8,550	8,550
HERRING . . . . .	19	4	-	-	19
LENGTH, YARDS . . . . .	9,000	1,700	-	-	9,100
MACKEREL AND SARDINE . . . . .	-	-	-	84	84
LENGTH, YARDS . . . . .	-	-	-	40,550	40,550
SALMON . . . . .	1,340	214	-	-	1,439
LENGTH, YARDS . . . . .	576,000	114,320	-	-	633,920
SQUID . . . . .	-	-	-	21	21
LENGTH, YARDS . . . . .	-	-	-	6,500	6,500
TUNA . . . . .	-	-	-	105	105
LENGTH, YARDS . . . . .	-	-	-	80,580	80,580
OTHER . . . . .	-	-	-	12	12
LENGTH, YARDS . . . . .	-	-	-	3,750	3,750
BEAM TRAWLS:					
FISH . . . . .	1	-	-	-	1
YARDS AT MOUTH . . . . .	11	-	-	-	11
SHRIMP . . . . .	15	4	-	-	19
YARDS AT MOUTH . . . . .	168	31	-	-	199
OTTER TRAWLS:					
FISH . . . . .	2	109	54	72	225
YARDS AT MOUTH . . . . .	30	2,403	1,215	1,909	5,297
SHRIMP . . . . .	7	3	28	9	40
YARDS AT MOUTH . . . . .	105	57	532	132	718
BRUSH WEIRS . . . . .	-	1	-	-	1
POUND NETS . . . . .	2	2	-	-	4
FLOATING TRAPS . . . . .	4	-	-	-	4
POT AND BEND TRAPS:					
CRAB:					
Dungeness . . . . .	22,500	24,215	31,051	24,770	90,819
KING . . . . .	22,000	-	-	-	22,000
TANNER . . . . .	10	-	-	-	10
CRAWFISH:					
FISH . . . . .	-	-	275	-	275
LOBSTER, SPINY . . . . .	-	-	-	50	50
OCTOPUS . . . . .	-	150	-	13,015	13,015
SHRIMP . . . . .	70	250	-	60	230
				-	250

(CONTINUED ON NEXT PAGE)

# PACIFIC COAST FISHERIES

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## SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
<b>GEAR - CONTINUED:</b>					
GILL NETS:					
ANCHOR SET OR STAKE:					
SALMON . . . . .	2,483	324	75	-	2,582
SQUARE YARDS . . . . .	1,831,000	78,500	22,500	-	1,932,000
SHARK . . . . .	-	2	118	-	120
SQUARE YARDS . . . . .	-	2,000	30,000	-	32,000
DRIFT:					
BARRACUDA . . . . .	-	-	-	11	11
SQUARE YARDS . . . . .	-	-	-	34,600	34,600
SALMON . . . . .	3,368	1,153	399	-	4,688
SQUARE YARDS . . . . .	4,298,000	5,731,250	1,217,000	-	11,122,250
SEA BASS . . . . .	-	-	-	51	51
SQUARE YARDS . . . . .	-	-	-	144,200	144,200
SMELT . . . . .	-	30	40	-	70
SQUARE YARDS . . . . .	-	27,000	36,000	-	63,000
OTHER . . . . .	-	-	45	22	67
SQUARE YARDS . . . . .	-	-	90,000	61,600	151,600
TRAMMEL NETS:					
SQUARE YARDS . . . . .	-	-	-	31	31
LINES:					
HAND:					
ROCKFISHES . . . . .	-	44	-	301	345
HOOKS . . . . .	-	88	-	602	690
TUNA:					
ALbacore . . . . .	-	-	-	763	763
HOOKS . . . . .	-	-	-	763	763
YELLOWFIN AND SKIPJACK . . . . .	-	-	-	264	264
HOOKS . . . . .	-	-	-	264	264
OTHER . . . . .	-	-	-	444	444
HOOKS . . . . .	-	-	-	868	868
TROLL:					
ALbacore . . . . .	-	866	2,445	7,128	10,236
HOOKS . . . . .	-	666	2,446	7,128	10,236
SALMON . . . . .	4,832	5,900	4,000	10,524	23,456
HOOKS . . . . .	29,000	26,050	18,300	42,096	107,442
OTHER . . . . .	-	84	2	747	831
HOOKS . . . . .	-	168	4	747	915
LONG OR SET WITH HOOKS . . . . .	7,200	3,813	154	366	8,670
HOOKS . . . . .	640,000	350,395	14,660	36,600	779,695
DIP, BRAIL OR SCOOP NETS:	-	174	-	85	259
REED NETS:	-	63	-	-	63
WHEELS:	6	-	-	-	6
HARPOONS:					
WHALE . . . . .	-	-	1	5	6
OTHER . . . . .	-	-	-	10	10
DREDGES:					
CLAM . . . . .	-	4	-	-	4
YARDS AT MOUTH . . . . .	-	4	-	-	4
OYSTER:					
COMMON . . . . .	-	70	4	4	76
YARDS AT MOUTH . . . . .	-	140	6	4	152
SUCTION . . . . .	-	2	-	1	3
TONGS, OYSTER . . . . .	-	-	-	39	39
SHOVELS . . . . .	108	811	125	6	1,050
DIVING OUTFITS, ABALONE . . . . .	2	-	-	148	150



# PACIFIC COAST FISHERIES

## CATCH BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	ALASKA		WASHINGTON		OREGON	
	FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY
CARP . . . . .	-	-	947	5	-	-
COD . . . . .	-	-	6,213	341	201	10
DOLLY VARDEN TROUT . . . . .	6	1	-	-	-	-
FLOUNDERS; "SOLE" . . . . .	-	-	10,517	753	14,777	843
UNCLASSIFIED . . . . .	-	-	809	41	645	29
HAKE . . . . .	-	-	716	11	50	1
HALIBUT . . . . .	22,758	3,573	12,149	2,324	137	25
HERRING, SEA . . . . .	47,904	719	3,960	130	33	10
LAKE TROUT . . . . .	4	1	-	-	-	-
LINCOLN . . . . .	-	-	3,606	189	787	40
NORTHERN PIKE . . . . .	(2)	(2)	-	-	-	-
OCEAN PERCH . . . . .	-	-	11,254	574	9,719	425
PERCH . . . . .	-	-	130	14	1	(2)
RATFISH . . . . .	-	-	1,274	9	-	-
ROCKFISHES . . . . .	92	5	5,326	294	5,179	214
SABLEFISH, . . . . .	2,587	290	2,510	364	408	40
SALMON:						
CHINOOK OR KING . . . . .	11,567	3,662	5,616	2,085	3,987	1,376
CHUM OR KETA . . . . .	62,690	4,694	3,138	540	14	1
PINK . . . . .	162,280	17,174	45	8	(2)	(2)
RED OR SOCKEYE . . . . .	54,132	12,247	3,094	1,162	50	18
SILVER OR COHO . . . . .	20,954	3,362	9,362	2,736	5,816	1,560
TOTAL SALMON . . . . .	311,623	41,359	21,275	6,531	9,867	3,055
SEA BASS, WHITE . . . . .	-	-	-	-	9	(2)
SHAD . . . . .	-	-	34	2	784	59
SHARKS:						
GRAYFISH . . . . .	-	-	1,837	9	-	-
SOUFFIN . . . . .	-	-	1	(2)	1	(2)
UNCLASSIFIED . . . . .	-	-	2	(2)	-	-
TOTAL SHARKS . . . . .	-	-	1,840	9	1	(2)
SHEEFISH . . . . .	1	(2)	-	-	-	-
SKATES . . . . .	-	-	564	3	230	6
SMELT . . . . .	-	-	-	-	-	-
EULACHON . . . . .	-	-	517	53	326	44
SURF OR SILVER . . . . .	-	-	375	30	3	(2)
STEELHEAD TROUT . . . . .	10	2	68	22	361	99
STRIPED BASS . . . . .	-	-	-	-	46	7
STURGEON . . . . .	-	-	203	17	160	13
SUCKERS . . . . .	-	-	14	(2)	-	-
TON'COD . . . . .	-	-	388	7	-	-
TUNA, ALBACORE . . . . .	-	-	1,055	170	4,455	716
WHI TE FISH . . . . .	17	3	-	-	-	-
TOTAL FISH . . . . .	365,002	45,953	86,544	11,913	48,179	5,636
SHELLFISH, ETC.						
CRABS:						
DUNGENESS . . . . .	12,708	1,466	5,163	1,092	3,357	817
KING . . . . .	86,721	8,186	-	-	-	-
TANNER . . . . .	14	1	-	-	-	-
TOTAL CRABS . . . . .	99,443	9,653	5,163	1,092	3,357	817
CRAYFISH, FRESH-WATER . . . . .	-	-	-	-	11	3
SHRIMP . . . . .	7,727	309	384	57	5,260	449
ABALONE . . . . .	1	1	-	-	-	-
CLAMS:						
HARD . . . . .	-	-	351	169	-	-
RAZOR . . . . .	42	20	167	111	15	9
MIXED . . . . .	-	-	-	-	13	8
TOTAL CLAMS . . . . .	42	20	518	280	28	17
OCTOPUS . . . . .	-	-	36	5	-	-
OYSTERS, MARKET:						
PACIFIC . . . . .	-	-	8,244	2,187	335	106
WESTERN . . . . .	-	-	34	98	-	-
TOTAL OYSTERS . . . . .	-	-	8,278	2,205	335	106

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# PACIFIC COAST FISHERIES

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## CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	ALASKA		WASHINGTON		ORECON	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
SHELLFISH, ETC. - CONTINUED						
SQUID . . . . .	399	80	1	(2)	-	-
KELP (WITH HERRING EGGS) . . . . .						
TOTAL SHELLFISH . . . . .	107,612	10,063	14,380	3,719	9,011	1,392
WHALE PRODUCTS:						
MEAL . . . . .	-	-	-	-	4	(2)
MEAT . . . . .	-	-	-	-	7	1
OIL, SPERM . . . . .	-	-	-	-	5	1
TOTAL WHALE PRODUCTS . . . . .	-	-	-	-	16	2
GRAND TOTAL . . . . .	492,614	56,016	100,924	15,632	57,206	7,030
SPECIES	CALIFORNIA 1/			TOTAL		
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ANCHOVIES . . . . .	4,975	82	4,975	82		
BARRACUDA . . . . .	334	55	334	55		
BONITO . . . . .	2,612	66	2,612	66		
CABEZONE . . . . .	5	(2)	5	(2)		
CABRILLA . . . . .	14	2	14	2		
CARP . . . . .	195	12	1,142	17		
COD . . . . .	-	-	6,414	351		
DOLLY VARDEN TROUT . . . . .	-	-	6	1		
FOUNDERS . . . . .						
ARROWTOOTH HALIBUT . . . . .	10	(2)	10	(2)		
CALIFORNIA HALIBUT . . . . .	3,1/276	289	1,276	289		
SAND DAB . . . . .	590	44	590	44		
"SOLE" . . . . .	18,350	1,378	43,644	2,974		
UNCLASSIFIED . . . . .	3/ 421	25	1,675	95		
FLYING FISH . . . . .	86	11	86	11		
GROUPERS . . . . .	164	37	164	37		
HAKE . . . . .	112	2	878	14		
HALFMONTH . . . . .	10	2	10	2		
HALIBUT . . . . .	3	1	35,047	5,923		
HUMERHEAD . . . . .	157	42	157	42		
HERRING, SEA . . . . .	349	32	52,246	891		
KING CROAKER . . . . .	839	39	839	39		
LAKE TROUT . . . . .	-	-	4	1		
LINGCOD . . . . .	836	65	5,229	294		
MACKEREL:						
JACK . . . . .	89,693	2,109	89,693	2,109		
PACIFIC . . . . .	26,828	666	26,828	666		
NORTHERN PIKE . . . . .	-	-	(2)	(2)		
OCEAN PERCH . . . . .	-	-	20,973	999		
OPALEYE . . . . .	2	(2)	2	(2)		
PALOMETA . . . . .	133	20	264	34		
POMPANO . . . . .	121	33	121	33		
RATFISH . . . . .	-	-	1,374	9		
ROCKFISHES . . . . .	8,118	490	19,315	1,003		
SABLEFISH . . . . .	2,463	163	8,068	.877		
SALMON:						
CHINOOK OR KING . . . . .	7,562	4,332	28,732	11,455		
CHUB OR KETA . . . . .	-	-	65,642	5,236		
PINK . . . . .	-	-	162,325	17,182		
RED OR SOCKEYE . . . . .	-	-	57,276	13,427		
SILVER OR COHO . . . . .	1,919	681	38,071	8,659		
TOTAL SALMON . . . . .	9,481	5,013	352,246	55,958		
SARDINE, PACIFIC . . . . .	13,138	500	13,138	500		
SCULPIN . . . . .	94	27	94	27		
SEA BASS:						
BLACK . . . . .	223	36	223	36		
WHITE . . . . .	1,391	309	1,400	309		
SHAD . . . . .	-	-	818	61		
SHARKS:						
GRAYFISH . . . . .	-	-	1,837	9		
SOUPFIN . . . . .	-	-	2	63		
UNCLASSIFIED . . . . .	647	63	649			
TOTAL SHARKS . . . . .	647	63	2,488	72		
SHEEFISH . . . . .	-	-	1	(2)		
SHEEPSHEAD . . . . .	18	1	18	1		
SKATES . . . . .	223	3	1,017	12		

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# PACIFIC COAST FISHERIES

## CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	CALIFORNIA 1/		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE
<b>FISH - CONTINUED</b>				
SMELT:				
EULACHON . . . . .	-	-	843	97
SURF OR SILVER . . . . .	414	28	792	58
STEELHEAD TROUT . . . . .	-	-	439	123
STRIPED BASS . . . . .	-	-	46	7
STURGEON . . . . .	-	-	363	30
SUCKERS . . . . .	-	-	14	(2)
SWORDFISH . . . . .	183	103	183	103
TOMOD . . . . .	-	-	368	7
TUNA:				
ALBACORE . . . . .	42,551	6,580	48,061	7,466
BIGEFLIN . . . . .	23,171	2,827	23,171	2,827
SKIPJACK . . . . .	66,059	6,624	66,059	6,624
YELLOWFIN . . . . .	149,020	19,849	149,020	19,849
TOTAL TUNA . . . . .	260,601	35,880	266,311	36,766
TURBOT . . . . .	93	5	93	5
MAHIO . . . . .	4	1	4	1
WHITEBAIT . . . . .	191	15	191	15
WHITEFISH . . . . .	-	-	17	3
YELLOWTAIL . . . . .	110	12	110	12
UNCLASSIFIED:				
FOR FOOD . . . . .	148	3	148	3
BAIT AND ANIMAL FOOD . . . . .	1,738	35	1,738	35
TOTAL FISH . . . . .	467,593	47,699	967,318	111,201
<b>SELLFISH, ETC.</b>				
CRABS:				
DUNGENESS . . . . .	1,615	617	23,043	3,992
KING . . . . .	-	-	86,721	8,186
ROCK . . . . .	264	25	264	25
TANNER . . . . .	-	-	14	1
TOTAL CRABS . . . . .	2,079	642	110,042	12,204
CRAWFISH, FRESH-WATER . . . . .	-	-	11	3
LOBSTER, SPINY . . . . .	447	309	447	309
SHRIMP . . . . .	1,106	114	14,497	929
ABALONE . . . . .	816	573	817	574
CLAMS:				
HARD . . . . .	1	1	352	170
RAZOR . . . . .	-	-	224	140
MIXED . . . . .	-	-	13	8
TOTAL CLAMS . . . . .	1	1	569	318
OCTOPUS . . . . .	39	2	75	7
OYSTERS, MARKET:				
EASTERN . . . . .	5	10	5	10
PACIFIC . . . . .	1,395	244	9,934	2,537
WESTERN . . . . .	-	-	34	98
TOTAL OYSTERS . . . . .	1,360	254	9,973	2,645
SQUID . . . . .	16,434	333	16,435	333
MOLLUSKS, UNCLASSIFIED . . . . .	(2)	(2)	(2)	(2)
KELP (WITH HERRING EGGS) . . . . .	-	-	399	80
TOTAL SHELLFISH, ETC . . . . .	22,282	2,228	153,285	17,402
WHALE PRODUCTS:				
MEAL . . . . .	3,324	155	3,328	155
MEAT . . . . .	4,514	362	4,521	363
OIL . . . . .	-	-	-	-
SPERM . . . . .	396	25	401	26
WHALE . . . . .	2,759	170	2,759	170
TOTAL WHALE PRODUCTS . . . . .	10,993	732	11,009	734
GRAND TOTAL . . . . .	500,868	50,659	1,151,612	129,337

1/ INCLUDES THE CATCH TAKEN OFF LATIN AMERICA AND LANDED AT CALIFORNIA PORTS.

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 ALASKA, WASHINGTON, AND OREGON ARE IN ROUND WEIGHT, WHILE THOSE FOR CALIFORNIA ARE SHOWN IN WEIGHTS AS LANDED, EXCEPT FOR SHELL MOLLUSKS. IN ALL STATES, CLAMS AND OYSTERS ARE REPORTED IN WEIGHT OF TOTAL MEATS; ABALONE, IN WEIGHT OF EDIBLE MEAT. ALASKA DATA INCLUDE THE CATCH OF HALIBUT, SABLEFISH, AND ROCKFISHES LANDED BY U. S. VESSELS AT BRITISH COLUMBIA PORTS.

# PACIFIC COAST FISHERIES

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## MANUFACTURED FISHERY PRODUCTS, 1964

ITEM	ALASKA		WASHINGTON	
	QUANTITY	VALUE	QUANTITY	VALUE
COD:				
FILLETS:				
FRESH . . . . .	POUNDS	-	1,246,211	\$285,855
FROZEN . . . . .	DO	-	555,668	130,661
SALTED . . . . .	DO	-	{1}	{1}
LUTEFISK . . . . .	DO	-	{1}	{1}
FLOUNDERS, FILLETS, FRESH AND FROZEN . . . . .	DO	-	2,819,028	1,079,767
HALIBUT:				
FILLETS, FRESH AND FROZEN . . . . .	DO	211,700	\$137,710	1,316,907
FROZEN:				
STEAKS . . . . .	DO	-	-	625,322
CHEEKS . . . . .	DO	30,000	19,800	5,643,465
CANNED, SMOKED . . . . .	STANDARD CASES	-	420	2,637,242
SMOKED . . . . .	POUNDS	-	-	120,722
HERRING, SEA:				
SALTLED EGGS (WITH KELP) . . . . .	DO	274,800	164,200	-
MEAL AND SCRAP . . . . .	TONS	3,636	497,400	(3)
OIL . . . . .	THOUSAND POUNDS	7,893	581,600	(3)
LINGCOD FILLETS, FRESH AND FROZEN . . . . .	POUNDS	-	-	973,204
OCEAN PERCH FILLETS, FRESH AND FROZEN . . . . .	DO	-	-	229,116
ROCKFISH FILLETS, FRESH AND FROZEN . . . . .	DO	-	-	3,148,534
SALT FISH:				
FRESH AND FROZEN, STEAKS . . . . .	DO	-	-	734,439
SALTED . . . . .	DO	-	-	1,739,573
SMOKED . . . . .	DO	-	-	358,913
SALEMON:				
FRESH AND FROZEN:				
FILLETS . . . . .	DO	-	-	864,500
STEAKS . . . . .	DO	-	-	581,600
CANNED:				
CHINOOK OR KING . . . . .	STANDARD CASES	-	-	876,943
CHUM OR KETA . . . . .	DO	37,759	1,260,710	12,913
PINK . . . . .	DO	702,669	12,655,610	21,178
RED OR SOCKEYE . . . . .	DO	1,328,231	39,426,970	11,630
SILVER OR COHO . . . . .	DO	715,660	29,428,080	58,736
TOTAL CANNED SALMON . . . . .	DO	164,860	4,746,660	2,884,432
		3,549,379	87,530,030	844,034
			130,329	4,755,873
Eggs FOR BAIT . . . . .	DO	-	-	2,162,995
SMOKED . . . . .	DO	647	47,840	83,002
SPECIALTIES (SALTED LIVERS AND SPREADS) . . . . .	DO	-	-	(1)
SALTED:				
MILD-CURED . . . . .	POUNDS	2,324,400	2,009,520	619,950
EGGS FOR FOOD AND BAIT . . . . .	DO	2,399,100	1,136,190	619,450
SPECIALTIES (CAVIAR AND SALTED BELLIES) . . . . .	DO	-	-	138,663
SMOKED . . . . .	DO	10,200	13,610	509,811
MEAL AND SCRAP . . . . .	TONS	-	-	510,410
OIL . . . . .	THOUSAND POUNDS	-	-	668,427
SHAD:				
CANNED, FISH . . . . .	STANDARD CASES	-	-	(1)
SMELT, CANNED (SMOKED) . . . . .	STANDARD CASES	-	-	(1)
STURGEON:				
CANNED, SMOKED AND SPECIALTIES . . . . .	DO	-	-	757
SMOKED . . . . .	POUNDS	-	-	40,537
SWORDFISH, STEAKS, FROZEN . . . . .	DO	-	-	5,478
TUNA:				
CANNED, ALbacore . . . . .	STANDARD CASES	-	-	911,446
TOTAL CANNED TUNA . . . . .	DO	-	-	491,655
SMOKED . . . . .	DO	-	-	5/ 523,014
SMOKED . . . . .	POUNDS	-	-	5/ 523,014
CRABS:				
Dungeness:				
FRESH AND FROZEN:				
COOKED MEAT . . . . .	DO	2,448,500	1,735,330	1,354,681
SECTIONS . . . . .	DO	2,701,300	1,291,950	-
CANNED:				
MEAT . . . . .	STANDARD CASES	15,498	551,660	4,387
SPECIALTIES (COCKTAILS, SMOKED, ETC.) . . . . .	DO	-	-	127,882
MEAL AND SCRAP . . . . .	TONS	-	-	{1}

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# PACIFIC COAST FISHERIES

## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM		ALASKA		WASHINGTON
		QUANTITY	VALUE	QUANTITY
		STANDARD CASES	STANDARD CASES	VALUE
CRABS - CONTINUED:				
KING:				
FRESH AND FROZEN:				
COOKED MEAT . . . . .	POUNDS	12,186,200	\$12,084,510	(1)
SECTIONS . . . . .	DO	6,207,000	3,236,580	-
CANNED . . . . .	STANDARD CASES	235,970	5,941,260	31,090
MEAT . . . . .	POUNDS	12,800	3,840	\$872,222
TANNER, WHOLE . . . . .				
SHRIMP:				
FRESH AND FROZEN:				
RAW HEADLESS . . . . .	DO	27,000	12,000	-
MEAT, RAW AND COOKED . . . . .	DO	767,200	818,000	-
CANNED:				
MEAT . . . . .	STANDARD CASES	40,504	684,450	(1)
SPECIALTIES (COCKTAILS) . . . . .	DO	-	-	(1)
ABALONE, FROZEN . . . . .				
STEAKS, NOT BREADED . . . . .	POUNDS	1,100	1,640	-
CLAMS:				
HARD (INCLUDING PISMO):				
CANNED:				
WHOLE AND MINCED . . . . .	STANDARD CASES	-	-	(1)
CHOWDER AND JUICE . . . . .	DO	-	-	11,252
SPECIALTIES (SMOKED AND IN THE SHELL) . . . . .	DO	-	-	(1)
RAZOR:				
SHUCKED, FRESH AND FROZEN . . . . .	GALLONS	4,286	23,120	7,177
CANNED:				
WHOLE AND MINCED . . . . .	STANDARD CASES	290	7,370	529
SMOKED . . . . .	DO	-	-	(1)
OYSTERS:				
SHUCKED, FRESH AND FROZEN:				
PACIFIC . . . . .	GALLONS	-	-	831,378
WESTERN . . . . .	DO	-	-	3,980
BREADED, FROZEN . . . . .	POUNDS	-	-	(1)
CANNED:				
MEAT . . . . .	STANDARD CASES	-	-	62,145
SMOKED . . . . .	DO	-	-	307
SPECIALTIES (STEWS, SOUPS, ETC.) . . . . .	DO	-	-	114,550
SHELL, GRIT AND LIME . . . . .	TONS	-	-	2,110,691
UNCLASSIFIED:				
FRESH AND FROZEN PACKAGED FISH:				
STICKS:				
RAW . . . . .	POUNDS	-	-	217,973
COOKED . . . . .	DO	-	-	(1)
PORTIONS:				
RAW . . . . .	DO	-	-	(1)
COOKED . . . . .	DO	-	-	(1)
FISH AND SHELLFISH . . . . .	DO	-	-	935,126
CANNED:				
FISH AND SHELLFISH . . . . .	STANDARD CASES	-	-	499,537
ANIMAL FOOD . . . . .	DO	-	-	30,818
CURED . . . . .	POUNDS	-	-	69,987
INDUSTRIAL . . . . .	-	-	-	67,300
MISCELLANEOUS . . . . .	-	-	-	-
TOTAL . . . . .	-	-	118,503,090	-
				32,257,030

ITEM		OREGON		CALIFORNIA
		QUANTITY	VALUE	QUANTITY
		STANDARD CASES	STANDARD CASES	VALUE
ANCHOVIES:				
CANNED . . . . .	STANDARD CASES	-	-	(1)
O.L. . . . .	THOUSAND POUNDS	-	-	(1)
BARRACUDA:				
FILLETS, FRESH . . . . .	POUNDS	-	-	(1)
SMOKED . . . . .	DO	-	-	(1)
BUTTERFISH, SMOKED . . . . .	DO	-	-	(1)
CARP, SMOKED . . . . .	DO	-	-	(1)
COD:				
FILLETS:				
FRESH . . . . .	DO	17,214	\$4,067	-
FROZEN . . . . .	DO	6,003	1,503	-
SPECIALTIES, FROZEN . . . . .	DO	-	-	(1)
SALTED . . . . .	DO	-	-	(1)
SMOKED . . . . .	DO	-	-	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# PACIFIC COAST FISHERIES

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## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM	OREGON		CALIFORNIA	
	QUANTITY	VALUE	QUANTITY	VALUE
FLOUNDERS:				
FILLETS, FRESH AND FROZEN . . . . .	POUNDS	3,133,065	\$1,224,632	4,550,360
DRIED . . . . .	DO	-	-	(1)
HAKE FILLETS, FROZEN . . . . .	DO	-	-	(1)
HALIBUT:				
FILLETS, FRESH AND FROZEN . . . . .	DO	-	-	(2)
FROZEN . . . . .	DO	(2)	(2)	(2)
STEAKS . . . . .	DO	-	-	(1)
SPECIALTIES (FISH AND CHIPS, ETC.) . . . . .	DO	-	-	(1)
SMOKED . . . . .	DO	-	-	(1)
HERRING, SEA, SMOKED . . . . .	POUNDS	-	-	49,325
LINGCOD FILLETS, FRESH AND FROZEN . .	DO	275,609	73,268	202,000
MACKEREL:				
CANNED:				
JACK . . . . .	STANDARD CASES	-	-	620,534
PACIFIC . . . . .	DO	-	-	250,269
SMOKED . . . . .	DO	-	-	1,025
MARLIN, SMOKED . . . . .	POUNDS	-	-	(1)
OCEAN PERCH FILLETS, FRESH AND FROZEN	DO	2,384,931	546,678	(2)
ROCKFISH:				
FILLETS, FRESH AND FROZEN . . . . .	DO	1,715,768	369,363	715,000
SMOKED . . . . .	DO	-	-	(1)
SABLEFISH:				
FRESH AND FROZEN:				
FILLETS . . . . .	DO	-	-	(1)
STEAKS . . . . .	DO	(1)	(1)	(1)
SMOKED . . . . .	DO	(1)	(1)	232,791
SALMON:				
FRESH AND FROZEN STEAKS . . . . .	DO	(2)	(2)	180,817
CANNED:				
CHINOOK OR KING . . . . .	STANDARD CASES	-	-	3474,814
CHUM OR KETA . . . . .	DO	45,132	2,036,207	(4)
RED OR SOCKEYE . . . . .	DO	412	7,652	-
SILVER OR COHO . . . . .	DO	2,498	161,701	-
STEELHEAD . . . . .	DO	26,534	1,138,192	-
TOTAL CANNED SALMON . . . . .	DO	2,914	131,062	-
SMOKED . . . . .	DO	79,490	-	(4)
SALTED, MILD-CURED . . . . .	POUNDS	164	16,278	(2)
SMOKED . . . . .	DO	(1)	(1)	2,013,530
OIL . . . . .	THOUSAND POUNDS	-	-	1,101,722
SARDINES, PACIFIC:				
CANNED . . . . .	STANDARD CASES	-	-	1,029,903
SALTLED . . . . .	POUNDS	-	-	1,029,903
MEAL . . . . .	TONS	-	-	(1)
OIL . . . . .	THOUSAND POUNDS	-	-	(1)
SEA BASS:				
FILLETS, FROZEN . . . . .	POUNDS	-	-	175,219
SMOKED . . . . .	DO	-	-	(1)
SHAD:				
CANNED:				
FISH . . . . .	STANDARD CASES	-	-	81,731
ROE . . . . .	DO	(1)	(1)	(1)
SMOKED . . . . .	POUNDS	-	-	(1)
SMELT:				
SMOKED . . . . .	DO	(1)	(1)	(1)
DRIED . . . . .	DO	-	-	(1)
STURGEON:				
CANNED, SMOKED AND SPECIALTIES . . . . .	STANDARD CASES	-	-	(1)
SMOKED . . . . .	POUNDS	283	21,118	(1)
SWORDFISH:				
STEAKS, FROZEN . . . . .	DO	-	-	(2)
SMOKED . . . . .	DO	-	-	(2)
TUNA:				
CANNED:				
ALBACORE . . . . .	STANDARD CASES	5/ 980,269	5/14,294,405	1,078,399
LIGHT MEAT . . . . .	DO	-	-	7,167,591
TONNO . . . . .	DO	-	-	146,639
TOTAL CANNED TUNA . . . . .	DO	5/ 980,269	5/14,294,405	9,292,629
				112,355,141

SEE FOOTNOTES AT END OF TABLE.

{CONTINUED ON NEXT PAGE}

## PACIFIC COAST FISHERIES

## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM	OREGON		CALIFORNIA	
	QUANTITY	VALUE	QUANTITY	VALUE
TUNA - CONTINUED:				
CANNED - CONTINUED:				
SPECIALTIES (WITH NOODLES AND CREAMED) . . . . .	STANDARD CASES			
SMOKED . . . . .	DO POUNDS	{1}	{1}	44,831
SMOKED . . . . .	DO POUNDS	{1}	{1}	29,926
TUNA-LIKE FISH (BONITO AND YELLOWTAIL):				
FILLETS, FRESH AND FROZEN . . . . .	DO	-	-	(1)
CANNED . . . . .	STANDARD CASES			(1)
SMOKED . . . . .	DO POUNDS	-	-	24,674
Wahoo, SMOKED . . . . .	DO	-	-	21,728
WHITEFISH, SMOKED . . . . .	DO	-	-	{1}
WHITEFISH, SMOKED . . . . .	DO	-	-	{1}
CRABMEAT:				
Dungeness:				
FRESH AND FROZEN:				
COOKED MEAT . . . . .	DO	459,843	\$594,014	450,401
SPECIALTIES (COCKTAILS AND DIPS) . . . . .	DO	-	-	(1)
CANNED, SPECIALTIES (COCKTAILS, SMOKED, ETC.) . . . . .	STANDARD CASES			(1)
KING, CANNED . . . . .	DO	{1}	{1}	-
LOBSTERS, SPINY:				
TAILS, FROZEN . . . . .	DO POUNDS	{2}	{2}	-
SPECIALTIES (COCKTAILS) . . . . .	DO	-	-	{1}
SHRIMP:				
FRESH AND FROZEN:				
RAV HEADLESS . . . . .	DO	-	-	{1}
MEAT, RAW AND COOKED . . . . .	DO	655,315	736,832	935,201
PEELED AND deveined . . . . .	DO	-	-	414,241
BREADED . . . . .	DO	-	-	6,098,370
SPECIALTIES (COCKTAILS AND DIPS) . . . . .	DO	-	-	(1)
CANNED:				
MEAT . . . . .	STANDARD CASES			-
SPECIALTIES (COCKTAILS) . . . . .	DO	{1}	{1}	-
SMOKED . . . . .	DO POUNDS	{1}	{1}	(1)
BAKED, FROZEN:				
STEAKS:				
NOT BREADED . . . . .	DO	-	-	602,591
BREADED . . . . .	DO	-	-	{1}
SPECIALTIES (PATTIES) . . . . .	DO	-	-	{1}
CLAMS, RAZOR:				
SHUCKED, FRESH AND FROZEN . . . . .	GALLONS	2,430	17,455	-
CANNED:				
WHOLE AND MINCED . . . . .	STANDARD CASES	332	10,953	-
OYSTERS:				
SHUCKED, FRESH AND FROZEN:				
PACIFIC . . . . .	GALLONS	142,275	558,402	152,547
WESTERN . . . . .	DO	{1}	{1}	-
BREADED, FROZEN . . . . .	DO POUNDS	-	-	52,785
CANNED:				
MEAT . . . . .	STANDARD CASES			-
SPECIALTIES (STews, SOUPS, ETC.) . . . . .	DO	{1}	{1}	-
SHELL, GRIT AND LIME . . . . .	TONS	{1}	{1}	-
SCALLOPS, BREADED, FROZEN . . . . .	POUNDS	-	-	486,602
SQUID, CANNED . . . . .	STANDARD CASES	-	-	213,299
WHALE:				
MEAT, FROZEN (FOR ANIMAL FOOD) . . . . .	POUNDS	7,400	518	4,514,366
MEAL AND SCRAP . . . . .	TONS	2	187	1,662
OIL:				
SPERM . . . . .	THOUSAND POUNDS	.5	460	396
OTHER . . . . .	DO	-	-	25,224
				169,926

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# PACIFIC COAST FISHERIES

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## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM	OREGON		CALIFORNIA	
	QUANTITY	VALUE	QUANTITY	VALUE
<b>UNCLASSIFIED:</b>				
FRESH AND FROZEN PACKAGED FISH:				
STICKS:				
RAW . . . . .	POUNDS	-	603,009	\$219,485
COOKED . . . . .	DO	-	6,230,580	2,809,113
PORTIONS:				
RAW . . . . .	DO	-	599,083	250,422
COOKED . . . . .	DO	-	1,697,563	1,334,332
UNBREADED . . . . .	DO	-	(1)	(1)
CAKES, COOKED . . . . .	DO	-	381,739	282,473
FISH AND SHELLFISH . . . . .	DO	(2)	(2)	923,386
CANNED:				
FISH AND SHELLFISH . . . . .	STANDARD CASES	6,135	\$187,806	(2)
ANIMAL FOOD . . . . .	DO	384,721	2,380,772	1,903,847
CURED . . . . .	POUNDS	21,410	27,060	701,992
INDUSTRIAL . . . . .	-	-	677,060	-
MISCELLANEOUS . . . . .	-	-	(6)	3,625,443
TOTAL . . . . .	-	-	25,487,227	173,724,482

1/ INCLUDED WITH UNCLASSIFIED PRODUCTS.

2/ THE PRODUCTION OF CERTAIN ITEMS IN OREGON AND CALIFORNIA HAVE BEEN INCLUDED WITH THE WASHINGTON PRODUCTION.

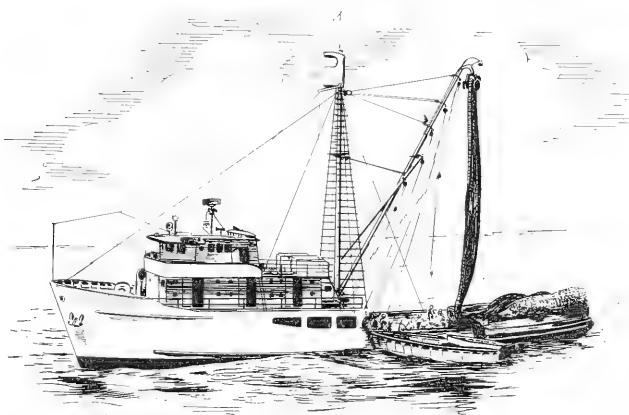
3/ THE PRODUCTION OF HERRING MEAL AND OIL IN WASHINGTON HAS BEEN INCLUDED WITH ALASKA.

4/ THE PACK OF SALMON IN CALIFORNIA HAS BEEN INCLUDED WITH OREGON.

5/ THE PACK OF LIGHT MEAT TUNA HAS BEEN INCLUDED WITH ALBACORE.

6/ INCLUDED WITH INDUSTRIAL PRODUCTS.

NOTE:--THIS TABLE WILL NOT ADD. INDIVIDUAL STATE TOTALS ARE CORRECT BUT SMALL QUANTITIES PRODUCED IN OREGON AND CALIFORNIA ARE INCLUDED IN THE PRODUCTION FOR WASHINGTON. 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.



Tuna purse seiner

# PACIFIC COAST FISHERIES

## SUMMARY OF MANUFACTURED PRODUCTS, 1964

(VALUE IN THOUSANDS OF DOLLARS)

ITEM	QUANTITY	VALUE
<b>PACKAGED, FRESH AND FROZEN:</b>		
NOT BREADED:		
FISH . . . . .	1,000 POUNDS	35,586
SHELLFISH . . . . .	DO	39,171
BREADED:		
FISH . . . . .	DO	10,124
SHELLFISH . . . . .	DO	6,679
SPECIALTIES . . . . .	DO	1,287
WHALE MEAT (FOR ANIMAL FOOD) . . . . .	DO	938
CANNED . . . . .	1,000 STANDARD CASES	4,522
CURED . . . . .	1,000 POUNDS	18,987
INDUSTRIAL . . . . .	-	12,119
TOTAL . . . . .	-	269,749
		9,346
		16,859
		349,972

## VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964

(THOUSANDS OF DOLLARS)

ITEM	VALUE
ALASKA . . . . .	118,503
WASHINGTON . . . . .	32,257
OREGON . . . . .	25,467
CALIFORNIA . . . . .	173,725
TOTAL . . . . .	349,972

## WHOLESALING AND MANUFACTURING, 1964

ITEM	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING:					
ESTABLISHMENTS . . . . .	173	179	60	188	600
PERSONS ENGAGED . . . . .					
AVERAGE FOR SEASON . . . . .	7,648	4,160	2,257	9,411	23,476
AVERAGE FOR YEAR . . . . .	2,500	2,107	1,540	7,126	13,273



# PACIFIC COAST FISHERIES

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## ALASKA FISHERIES CATCH BY REGIONS, 1964

SPECIES	SOUTHEASTERN ALASKA		CENTRAL ALASKA	
FISH	POUNDS	VALUE	POUNDS	VALUE
HALIBUT 1/ . . . . .	18,327,400	\$2,930,950	4,430,200	\$641,980
HERRING . . . . .	45,698,400	700,480	1,205,500	18,080
NORTHERN PIKE . . . . .			300	50
ROCKFISHES 2/ . . . . .			-	-
SABLEFISH . . . . .	91,800	5,110	-	-
	2,586,900	289,440	-	-
SALMON: 3/				
CHINOOK OR KING . . . . .	6,572,500	2,750,590	467,900	114,880
CHUM OR KETA . . . . .	19,535,900	1,567,050	34,743,600	2,507,790
PINK . . . . .	71,505,300	7,735,430	85,513,700	8,882,580
RED OR SOCKEYE . . . . .	5,500,400	1,556,410	18,212,000	4,326,580
SILVER OR COHO . . . . .	12,634,300	2,376,130	7,451,700	1,124,330
TOTAL SALMON . . . . .	115,948,400	15,985,610	146,368,900	16,958,160
TROUT:				
DOLLY VARDEN . . . . .	-	-	6,600	1,310
LAKE TROUT . . . . .	-	-	4,400	890
STEELHEAD . . . . .	10,100	2,020	-	-
WHITEFISH . . . . .	-	-	16,600	3,370
TOTAL FISH . . . . .	183,663,000	19,913,610	152,052,700	17,623,840
SHELLFISH, ETC.				
ABALONE . . . . .	1,100	1,100	-	-
CLAM MEATS, RAZOR . . . . .	900	410	40,900	19,210
CRABS:				
Dungeness . . . . .	4,633,200	555,990	8,075,300	909,450
KING . . . . .	820,500	82,050	51,638,600	5,020,600
TANNER . . . . .	13,900	1,390	-	-
SHRIMP . . . . .	2,793,100	111,730	4,933,600	197,360
KELP (WITH HERRING EGGS) . . . . .	398,700	79,740	-	-
TOTAL SHELLFISH, ETC.. . . . .	8,661,400	832,410	64,688,400	6,146,620
GRAND TOTAL . . . . .	192,324,400	20,746,020	216,741,100	23,770,460
SPECIES	WESTERN ALASKA		TOTAL	
FISH	POUNDS	VALUE	POUNDS	VALUE
HALIBUT 1/ . . . . .	-	-	22,757,600	\$3,572,930
HERRING . . . . .	-	-	47,903,900	718,560
NORTHERN PIKE . . . . .	-	-	300	50
ROCKFISHES 2/ . . . . .	-	-	91,800	5,110
SABLEFISH . . . . .	-	-	2,586,900	289,440
SALMON: 3/				
CHINOOK OR KING . . . . .	4,526,600	\$796,440	11,567,000	3,661,910
CHUM OR KETA . . . . .	8,410,300	619,730	62,689,800	4,694,570
PINK . . . . .	5,261,500	555,950	162,260,500	17,123,950
RED OR SOCKEYE . . . . .	30,419,600	6,361,650	54,132,000	12,246,640
SILVER OR COHO . . . . .	657,900	81,600	20,953,900	3,582,060
TOTAL SALMON . . . . .	49,285,900	8,415,370	311,623,200	41,359,140
SHELLFISH, ETC.				
TROUT:				
DOLLY VARDEN . . . . .	600	120	600	120
LAKE TROUT . . . . .	-	-	6,600	1,310
STEELHEAD . . . . .	-	-	4,400	890
WHITEFISH . . . . .	-	-	10,100	2,020
TOTAL FISH . . . . .	49,286,500	8,415,490	385,002,200	45,952,940
SHELLFISH, ETC.				
ABALONE . . . . .	-	-	1,100	1,100
CLAM MEATS, RAZOR . . . . .	-	-	41,600	19,620
CRABS:				
Dungeness . . . . .	34,261,600	3,083,540	12,708,500	1,465,440
KING . . . . .	-	-	86,720,700	8,186,190
TANNER . . . . .	-	-	13,900	1,390
SHRIMP . . . . .	-	-	7,726,700	309,090
KELP (WITH HERRING EGGS) . . . . .	-	-	398,700	79,740
TOTAL SHELLFISH, ETC.. . . . .	34,261,600	3,083,540	107,611,400	10,062,570
GRAND TOTAL . . . . .	83,548,100	11,499,030	492,613,600	56,015,510

1/ INCLUDES THE VALUE OF HALIBUT LIVERS AND VISCERA AMOUNTING TO \$5,420. 2/ INCLUDES LINGCOD. 3/ THE ROUND WEIGHTS USED IN CATCH TABLES WERE OBTAINED BY MULTIPLYING NUMBER OF FISH BY THEIR AVERAGE WEIGHT.  
 NOTE:--THE ABOVE DATA INCLUDE CATCHES OF HALIBUT, SABLEFISH, 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

## ALASKA

### SUMMARY OF PRODUCTS AS PREPARED FOR MARKET, 1964

ITEM	SOUTHEASTERN ALASKA		CENTRAL ALASKA	
	POUNDS	VALUE	POUNDS	VALUE
HALIBUT . . . . .	14,691,600	\$5,653,750	7,030,800	\$2,352,430
HERRING . . . . .	18,315,300	1,181,760	756,700	46,860
ROCKFISHES . . . . .	55,100	6,570	-	-
SABLEFISH . . . . .	1,381,700	373,220	-	-
SALMON . . . . .	79,439,400	38,512,750	100,456,200	46,412,800
TROUT . . . . .	-	-	5,000	3,930
DOLLY VARDEN . . . . .	-	-	3,300	2,450
LAKE TROUT . . . . .	-	-	-	-
STEELHEAD . . . . .	9,400	4,560	13,000	4,000
WHITEFISH . . . . .	-	-	200	60
NORTHERN PIKE . . . . .	-	-	-	-
ABALONE . . . . .	1,100	1,640	500	40,900
CLAMS, RAZOR . . . . .	900	500	-	29,990
CRABS:				
Dungeness . . . . .	1,481,900	1,293,260	3,970,300	2,285,700
KING . . . . .	311,500	285,130	15,687,100	13,900,020
TANNER . . . . .	12,600	3,640	-	-
SHRIMP . . . . .	508,700	512,020	893,000	1,002,430
KELP (WITH HERRING EGGS) . . . . .	289,900	172,010	-	-
TOTAL . . . . .	116,500,300	47,984,010	129,058,500	66,040,710
ITEM	WESTERN ALASKA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
HALIBUT . . . . .	-	-	21,722,400	\$8,006,180
HERRING . . . . .	-	-	19,072,000	1,211,640
ROCKFISHES . . . . .	-	-	56,100	6,570
SABLEFISH . . . . .	-	-	1,381,700	373,220
SALMON . . . . .	26,747,500	\$19,838,530	208,645,100	104,764,060
TROUT . . . . .	-	-	-	-
DOLLY VARDEN . . . . .	-	-	5,000	3,930
LAKE TROUT . . . . .	-	-	3,300	2,450
STEELHEAD . . . . .	-	-	9,400	4,560
WHITEFISH . . . . .	-	-	13,000	4,000
NORTHERN PIKE . . . . .	-	-	200	80
SHEEFISH . . . . .	400	220	400	220
ABALONE . . . . .	-	-	1,100	1,640
CLAMS, RAZOR . . . . .	-	-	41,600	30,490
CRABS:				
Dungeness . . . . .	-	-	5,452,200	3,578,960
KING . . . . .	6,795,000	7,077,190	22,994,500	21,262,340
TANNER . . . . .	-	-	12,600	3,640
SHRIMP . . . . .	-	-	1,401,700	1,514,450
KELP (WITH HERRING EGGS) . . . . .	-	-	289,900	172,010
TOTAL . . . . .	35,543,900	26,915,940	281,102,700	140,940,660

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, 1964

ITEM	SOUTHEASTERN ALASKA		CENTRAL ALASKA		WESTERN ALASKA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FRESH								
HALIBUT, DRESSED . . . . .	-	-	47,100	\$10,870	-	-	47,100	\$10,870
SALMON, DRESSED . . . . .	217,200	\$110,270	172,800	60,500	339,900	\$200,770	729,900	371,620
TROUT . . . . .								
DOLLY VARDEN, DRESSED . . . . .	-	-	5,000	3,930	-	-	5,000	3,930
LAKE, DRESSED . . . . .	-	-	3,300	2,450	-	-	3,300	2,450
NORTHERN PIKE, DRESSED . . . . .	-	-	200	80	-	-	200	80
SHEEFISH, DRESSED . . . . .	-	-	-	-	400	220	400	220
CLAM MEATS . . . . .	900	500	200	120	-	-	1,100	620
CRABS:								
Dungeness:								
W-HOLE . . . . .	4,300	1,430	52,500	22,340	-	-	56,600	23,770
MEAT . . . . .	-	-	900	1,500	-	-	900	1,560
KING:								
W-HOLE . . . . .	-	-	200	30	-	-	200	30
SECTIONS . . . . .	-	-	312,200	156,090	-	-	312,200	156,090
MEAT . . . . .	-	-	100	70	-	-	100	70
ABALONE, WHOLE . . . . .	1,100	1,640	-	-	-	-	1,100	1,640
SHRIMP, MEAT . . . . .	2,600	3,000	1,100	1,330	-	-	3,900	4,330
TOTAL FRESH . . . . .	226,300	116,840	595,600	259,450	340,300	200,990	1,162,200	577,260

(CONTINUED ON NEXT PAGE)

# PACIFIC COAST FISHERIES

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## PRODUCTS AS PREPARED FOR MARKET, 1964 - Continued

ITEM	SOUTHEASTERN ALASKA		CENTRAL ALASKA		WESTERN ALASKA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
<b>FROZEN</b>								
ROCKFISHES, DRESSED . . . . .	56,100	\$6,570	-	-	-	-	56,100	\$6,570
HALIBUT, DRESSED . . . . .	14,456,900	5,498,720	6,860,700	\$2,333,240	-	-	21,317,600	7,831,960
FLETCHESES . . . . .	200,900	134,810	10,800	2,900	-	-	211,700	137,710
CHEEKS . . . . .	30,000	19,800	-	-	-	-	30,000	19,800
IVERS AND VISCERA . . . . .	3,800	420	111,900	5,000	-	-	115,700	5,420
HERING, BATTLING . . . . .	3,905,600	115,470	669,600	20,220	-	-	4,594,600	135,600
EGGS WITH KELP . . . . .	15,100	7,810	-	-	-	-	15,100	7,810
ROE . . . . .	10,000	3,990	-	-	-	-	10,000	3,990
SABLEFISH, DRESSED . . . . .	1,369,900	369,680	-	-	-	-	1,369,900	369,680
SMALM, DRESSED . . . . .	14,827,600	8,595,290	16,556,700	4,813,270	436,300	\$193,960	31,820,800	13,603,520
VISCERA . . . . .	622,100	26,700	169,400	8,500	167,600	16,760	959,100	51,960
TROUT, STEELHEAD, DRESSED . . . . .	9,200	4,350	-	-	-	-	9,200	4,350
WHITEFISH, DRESSED . . . . .	-	-	13,000	4,000	-	-	13,000	4,000
CLAM MEATS, . . . . .	-	-	36,400	22,500	-	-	36,400	22,500
CRABS, DUNGENESS:								
WHOLE . . . . .	175,700	69,180	1,267,300	506,010	-	-	1,443,000	575,190
SECTIONS . . . . .	676,000	363,320	2,025,300	928,630	-	-	2,701,300	1,291,950
MEAT . . . . .	534,700	666,220	413,100	448,590	-	-	947,800	1,134,510
KING:								
WHOLE . . . . .	87,100	47,300	401,400	169,500	-	-	489,500	216,800
SECTIONS . . . . .	37,000	18,320	5,848,100	3,057,340	9,700	4,830	5,894,800	3,080,490
MEAT . . . . .	185,900	216,560	4,725,200	4,578,690	6,786,300	7,072,360	11,697,400	11,667,610
TANNER, WHOLE . . . . .	12,600	3,840	-	-	-	-	12,600	3,840
SHRIMP:								
WHOLE . . . . .	27,000	12,000	-	-	-	-	27,000	12,000
MEAT . . . . .	355,900	365,550	407,400	448,110	-	-	763,300	813,670
TOTAL FROZEN . . . . .	37,596,900	16,566,910	39,536,300	17,346,500	7,399,900	7,287,910	84,535,100	41,201,320
<b>CURED</b>								
HERRING, ROE, SALTED . . . . .	-	-	23,100	23,460	-	-	23,100	23,460
KELP (WITH HERRING)								
ROE, SALTED . . . . .	274,800	164,200	-	-	-	-	274,800	164,200
SABLEFISH, SMOKED . . . . .	11,800	3,540	-	-	-	-	11,800	3,540
SMALM:								
HAD, CURED . . . . .	1,522,200	1,449,790	-	-	265,400	203,100	1,787,600	1,654,800
PICKLED . . . . .	-	-	68,500	39,570	466,200	315,060	536,800	354,630
SHOVED OR KIPPED . . . . .	3,600	3,820	5,900	6,080	2,300	3,500	10,000	13,400
EGLS, SALTED . . . . .	1,629,900	752,400	731,700	366,930	37,500	14,660	2,399,100	1,136,190
TROUT, STEELHEAD, SMOKED . . . . .	200	210	-	-	-	-	200	210
TOTAL CURED . . . . .	3,442,700	2,373,960	827,200	436,040	773,500	538,520	5,043,400	3,350,520
<b>CANNED</b>								
HALIBUT . . . . .	-	-	300	420	-	-	300	420
<b>SAFON:</b>								
CHINOOK OR KING . . . . .	23,700	14,480	253,000	191,230	1,535,800	1,055,000	1,812,500	1,260,710
CHUM OR KETA . . . . .	10,423,100	3,934,670	19,220,100	7,229,650	4,094,400	1,500,890	33,737,600	12,665,610
PINK . . . . .	43,220,400	18,532,080	46,076,500	19,355,500	3,256,200	1,361,390	92,555,700	39,428,970
RED OR SOCKEYE . . . . .	3,395,300	2,919,020	13,055,900	11,669,750	17,900,500	14,819,310	34,515,700	29,428,080
SILVER OR COHO . . . . .	3,546,500	2,160,420	4,125,900	2,434,530	241,200	151,710	7,913,500	4,746,660
TOTAL . . . . .	60,608,900	27,560,670	82,731,400	41,080,860	27,030,100	18,688,300	170,370,400	87,530,030
<b>SAFON, SMOKED</b>								
CHINOOK OR KING . . . . .	700	1,680	4,500	5,730	100	220	5,300	7,630
CHUM OR KETA . . . . .	1,000	2,380	3,600	5,530	-	-	4,800	7,910
RED OR SOCKEYE . . . . .	-	-	5,500	6,640	-	-	5,500	8,540
SILVER OR COHO . . . . .	5,600	8,550	10,000	15,110	-	-	15,600	23,660
TOTAL . . . . .	7,500	12,610	23,600	35,010	100	220	31,400	47,840
<b>CLAMS, RAZOR, CRABS;</b>								
KING . . . . .	91,200	173,110	211,200	376,570	100	220	-	-
SHRIMP . . . . .	1,500	2,950	4,599,900	5,935,300	-	-	4,601,400	5,941,250
TOTAL CANNED . . . . .	123,000	131,460	484,500	552,990	-	-	607,500	654,450
TOTAL CANNED . . . . .	60,632,100	27,861,000	88,055,400	47,993,520	27,030,200	18,688,420	175,917,700	94,763,040
<b>INDUSTRIAL PRODUCTS</b>								
HERRING:								
MEAL . . . . .	6,927,300	474,700	44,000	3,200	-	-	6,971,300	477,900
OL' L . . . . .	7,473,000	570,600	-	-	-	-	7,473,000	570,600
TOTAL INDUSTRIAL PRODUCTS . . . . .	14,400,300	1,045,300	44,000	3,200	-	-	14,444,300	1,048,500
GRAND TOTAL . . . . .	116,500,300	47,984,010	129,058,500	66,040,710	35,543,900	26,915,940	281,102,700	140,940,660

# PACIFIC COAST FISHERIES

## PRODUCTION OF CANNED PRODUCTS, 1964

(IN STANDARD CASES)

ITEM	SOUTHEASTERN ALASKA		CENTRAL ALASKA		WESTERN ALASKA		TOTAL	
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
FISH								
HALIBUT, SMOKED . . .	-	-	7	\$420	-	-	7	\$420
SALMON:								
CHINOOK OR KING . . .	494	\$14,460	5,270	191,230	31,995	\$1,055,000	37,759	1,260,710
CHUM OR KETA . . .	217,148	3,934,870	400,420	7,229,650	65,301	1,500,890	702,669	12,665,610
PINK . . .	900,425	18,532,060	959,927	19,535,500	67,879	1,361,390	1,926,231	39,426,970
RED OR SOCKEYE . . .	70,735	2,919,020	271,997	11,689,750	372,928	14,819,310	715,660	29,428,080
SILVER OR COHO . . .	73,680	2,160,420	85,956	2,434,530	5,024	151,710	164,660	4,746,660
TOTAL. . . . .	1,262,682	27,560,870	1,723,570	41,060,660	563,127	18,886,300	3,549,379	87,530,030
SALMON, SMOKED:								
CHINOOK OR KING . . .	14	1,660	94	5,730	3	220	111	7,630
CHUM OR KETA . . .	20	2,380	80	5,530	-	-	100	7,910
RED OR SOCKEYE . . .	-	-	114	8,640	-	-	114	8,640
SILVER OR COHO . . .	112	8,550	210	15,110	-	-	322	23,660
TOTAL. . . . .	146	12,610	498	35,010	3	220	647	47,840
SHELLFISH								
CLAMS, RAZOR . . . . .	-	-	290	7,370	-	-	290	7,370
CRABS:								
Dungeness . . . . .	4,677	173,110	10,821	376,570	-	-	15,498	551,680
King . . . . .	77	2,950	235,893	5,926,300	-	-	235,970	5,941,250
SHRIMP . . . . .	8,202	121,460	32,302	552,990	-	-	40,504	684,450
GRAND TOTAL. . . . .	1,275,784	27,881,000	2,003,381	47,993,520	563,130	18,886,520	3,842,295	94,763,040

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, 1964

ITEM	SOUTHEASTERN ALASKA		CENTRAL ALASKA		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
HERRING:						
MEAL . . . . .	3,465	\$474,700	22	\$3,200	3,487	\$477,900
OIL . . . . .	7,473,000	570,600	-	-	7,473,000	570,600
TOTAL. . . . .	-	1,045,300	-	3,200	-	1,048,500



# PACIFIC COAST FISHERIES

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## SOUTHEASTERN REGION OF ALASKA OPERATING UNITS BY GEAR, 1964

ITEM	PURSE SEINES 1/		BEAM TRAWLS		OTTER TRAWLS, FISH	FLOATING TRAPS
	HERRING	SALMON	SHRIMP	FISH		
FISHERMEN:						
ON VESSELS, . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON BOATS AND SHORE,	103	2,849	49	4	8	-
REGULAR, . . . . .	-	70	-	-	-	8
TOTAL . . . . .	103	2,919	49	4	8	8
VESSELS, MOTOR, . . . . .						
GROSS TONNAGE, . . . . .	15	443	15	1	2	-
BOATS, MOTOR, . . . . .	1,050	13,689	407	42	126	-
GEAR:	15	503	-	-	-	-
NUMBER, . . . . .	15	473	15	1	2	4
LENGTH, YARDS, . . . . .	7,400	230,000	-	-	-	-
YARDS AT MOUTH, . . . . .	-	-	168	11	30	-
POTS						
ITEM	CRAB			SHRIMP	ANCHOR, SET OR STAKE	DRIFT
	DUNGENESS	KING	TANNER			
FISHERMEN:						
ON VESSELS, . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON BOATS AND SHORE,	119	45	-	3	-	198
REGULAR, . . . . .	25	10	2	2	180	225
TOTAL . . . . .	144	55	2	5	180	423
VESSELS, MOTOR, . . . . .						
GROSS TONNAGE, . . . . .	44	14	-	1	-	99
BOATS, MOTOR, . . . . .	1,191	618	-	16	-	1,095
GEAR:	11	4	1	1	180	225
NUMBER, . . . . .	8,000	1,800	10	20	180	324
LENGTH, YARDS, . . . . .	-	-	-	-	24,000	162,000
SQUARE YARDS, . . . . .	-	-	-	-	95,000	972,000
LINES						
ITEM	TROLL, SALMON	LONG OR SET, AND HAND	SHOVELS	DIVING OUTFITS	BY HAND	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER				
FISHERMEN:						
ON VESSELS, . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON BOATS AND SHORE,	1,016	724	-	1	-	4,650
REGULAR, . . . . .	700	100	8	2	200	1,330
TOTAL . . . . .	1,716	824	8	2	200	5,980
VESSELS, MOTOR, . . . . .						
GROSS TONNAGE, . . . . .	508	164	-	-	-	1,150
BOATS, MOTOR, . . . . .	7,297	5,616	-	-	-	27,318
GEAR:	700	50	-	1	100	1,600
NUMBER, . . . . .	4,832	6,000	8	2	400	-
HOOKS OR BAITS, . . . . .	29,000	490,000	-	-	-	-

1/ INCLUDES HAUL SEINES.

## SOUTHEASTERN REGION OF ALASKA - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES 1/ SALMON		BEAM TRAWLS, SHRIMP		OTTER TRAWLS, FISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HERRING, SEA, . . . . .	46,698,400	\$700,480	-	-	39,000	\$1,950
ROCKFISHES 2/ . . . . .			41,700	\$2,080	-	-
SALMON:						
CHINOOK OR KING . . . . .	151,400	29,610	-	-	-	-
CHIN. OR KETA, . . . . .	16,438,500	1,295,450	-	-	-	-
PINK, . . . . .	65,781,200	7,097,450	-	-	-	-
RED OR SOCKEYE, . . . . .	3,224,300	855,000	-	-	-	-
SILVER OR COHO, . . . . .	4,057,200	495,370	-	-	-	-
TOTAL SALMON, . . . . .	89,662,600	9,775,890	-	-	-	-
SHRIMP, . . . . .	-	-	2,789,400	111,560	-	-
TOTAL . . . . .	136,361,000	10,476,370	2,831,100	113,660	39,000	1,950

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# PACIFIC COAST FISHERIES

## SOUTHEASTERN REGION OF ALASKA CATCH BY GEAR, 1964 - Continued

SPECIES	FLOATING TRAPS	POTS				
		CRAB		KING		
		DUNGENESS		KING		
		POUNDS	VALUE	POUNDS	VALUE	
SALMON:						
CHUM OR KETA . . . . .		114,700	\$9,050	-	-	
PINK. . . . .		1,335,700	144,110	-	-	
RED OR SOCKEYE. . . . .		62,300	16,540	-	-	
SILVER OR COHO. . . . .		54,600	6,660	-	-	
TOTAL SALMON. . . . .		1,567,300	176,360	-	-	
GRABS:						
DUNGENESS . . . . .		-	-	4,633,200	\$555,990	
KING. . . . .		-	-	-	820,500	
TANNER. . . . .		-	-	13,900	\$82,050 1,390	
TOTAL . . . . .		1,567,300	176,360	4,633,200	555,990	
		834,400		834,400	\$3,440	
SPECIES	POTS - CONTINUED		GILL NETS			
	SHRIMP		ANCHOR, SET OR STAKE		DRIFT	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SALMON:						
CHINOOK OR KING . . . . .	-	-	18,600	\$2,790	123,000	\$52,850
CHUM OR KETA. . . . .	-	-	96,800	6,000	2,858,400	252,560
PINK. . . . .	-	-	157,100	8,440	3,662,100	414,430
RED OR SOCKEYE. . . . .	-	-	517,700	140,230	1,689,400	541,800
SILVER OR COHO. . . . .	-	-	1,629,300	161,050	1,354,000	243,210
TOTAL SALMON. . . . .	-	-	2,419,500	318,510	9,686,900	1,504,870
TROUT, STEELHEAD. . . . .	-	-	-	-	8,600	1,720
SHRIMP. . . . .	3,700	\$150	-	-	-	-
TOTAL . . . . .	3,700	150	2,419,500	318,510	9,695,500	1,505,590
SPECIES	LINES			SHOVELS		
	TROLL		LONG OR SET, AND HAND			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HALIBUT	-	-	18,327,400	\$2,930,530	-	-
ROCKFISHES <sup>2/</sup> . . . . .	-	-	11,100	1,060	-	-
SABLEFISH . . . . .	-	-	2,586,900	269,440	-	-
SALMON:						
CHINOOK OR KING . . . . .	6,279,500	\$2,665,340	-	-	-	-
CHUM OR KETA. . . . .	27,500	2,960	-	-	-	-
PINK. . . . .	569,200	71,000	-	-	-	-
RED OR SOCKEYE. . . . .	5,700	1,840	-	-	-	-
SILVER OR COHO. . . . .	5,729,200	1,468,840	-	-	-	-
TOTAL SALMON. . . . .	12,612,100	4,209,980	-	-	-	-
TROUT, STEELHEAD. . . . .	1,500	300	-	-	900	\$410
CLAM MEATS, RAZOR . . . . .	-	-	-	-	-	-
TOTAL . . . . .	12,613,600	4,210,280	20,925,400	3,221,050	900	410
SPECIES	DIVING OUTFITS			BY HAND		
	POUNDS	VALUE	POUNDS	VALUE		
	1,100	\$1,100	398,700	\$79,740		
ABALONE . . . . .	-	-	-	-		
KELP (WITH HERRING EGGS). . . . .	1,100	1,100	398,700	\$79,740		
TOTAL . . . . .	1,100	1,100	398,700	\$79,740		

1/ INCLUDES HAUL SEINES.

2/ INCLUDES LINGCOD.

# PACIFIC COAST FISHERIES

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## CENTRAL REGION OF ALASKA - OPERATING UNITS BY GEAR, 1964

ITEM	PURSE SEINES 1/		OTTER TRAWLS, SHRIMP	POUND NETS, HERRING	POTS	
	HERRING	SALMON			CRAB	
	NUMBER	NUMBER			DUNGENESS	KING
FISHERMEN, ON VESSELS . . . . .	-	2,140	27	-	134	762
ON BOATS AND SHORE, REGULAR . . . . .	12	850	-	14	60	146
TOTAL . . . . .	12	2,990	27	14	214	908
VESSELS, MOTOR . . . . .	-	432	7	-	52	223
GROSS TONNAGE . . . . .	-	6,489	435	-	1,420	12,770
BOATS, MOTOR . . . . .	4	1,248	-	7	40	73
GEAR: NUMBER . . . . .	4	840	7	2	15,000	16,500
LENGTH, YARDS . . . . .	1,600	336,000	-	-	-	-
YARDS AT MOUTH . . . . .	-	-	105	-	-	-
ITEM	POTS- CONTINUED		GILL NETS		LINES, LONG OR SET, AND HAND	TOTAL, EXCLUSIVE OF DUPLI- CATION
	SHRIMP	ANCHOR, SET OR STAKE	DRIFT		SHOVELS	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS . . . . .	5	-	368	255	-	3,260
ON BOATS AND SHORE, REGULAR . . . . .	2	803	1,400	100	100	3,100
TOTAL . . . . .	7	803	1,768	355	100	6,360
VESSELS, MOTOR . . . . .	1	-	184	46	-	771
GROSS TONNAGE . . . . .	103	-	2,446	2,231	-	22,246
BOATS, MOTOR . . . . .	1	803	1,011	50	-	3,480
GEAR: NUMBER . . . . .	50	803	1,195	2,500	100	-
LENGTH, YARDS . . . . .	-	186,000	358,000	-	-	-
SQUARE YARDS . . . . .	-	664,000	1,560,000	-	-	-
HOOKS OR BAITS . . . . .	-	-	-	250,000	-	-

1/ INCLUDES HAUL SEINES.

## CENTRAL REGION OF ALASKA - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES 1/		OTTER TRAWLS, SHRIMP		POUND NETS, FISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HERRING, SEA . . . . .	516,000	\$7,740	-	-	689,500	\$10,340
SALMON: CHINOOK OR KING . . . . .	34,700	13,930	-	-	-	-
CHUM OR KETA . . . . .	24,636,100	1,789,160	-	-	-	-
PINK . . . . .	70,162,700	7,332,250	-	-	-	-
RED OR SOCKEYE . . . . .	7,131,000	1,424,960	-	-	-	-
SILVER OR COHO . . . . .	701,600	90,070	-	-	-	-
TOTAL SALMON . . . . .	102,666,100	10,649,370	-	-	-	-
SHRIMP . . . . .	-	-	4,931,900	\$197,290	-	-
TOTAL . . . . .	103,162,100	10,657,110	4,931,900	197,290	689,500	10,340
SPECIES	POTS				SHRIMP	
	CRAB		SHRIMP			
	DUNGENESS		KING			
CRABS:	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
	8,075,300	\$909,450	51,638,600	\$5,020,600	-	-
	-	-	-	-	1,700	\$70
TOTAL . . . . .	8,075,300	909,450	51,638,600	\$5,020,600	1,700	70

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# PACIFIC COAST FISHERIES

## CENTRAL REGION OF ALASKA CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS			
	ANCHOR, SET OR STAKE		DRIFT	
	POUNDS	VALUE	POUNDS	VALUE
NORTHERN PIKE . . . . .	300	\$50	-	-
SALMON:				
CHINOOK OR KING . . . . .	91,000	21,690	342,200	\$78,960
CHUM OR KETA. . . . .	2,224,100	158,020	7,683,400	561,610
PINK. . . . .	11,485,500	1,165,650	3,865,500	384,680
RED OR SOCKEYE. . . . .	4,052,200	1,035,320	6,998,800	1,668,300
SILVER OR COHO. . . . .	2,184,800	343,370	4,565,300	690,890
TOTAL SALMON. . . . .	20,057,600	2,724,350	23,655,200	2,584,440
TROUT:				
DOLLY VARDEN. . . . .	6,600	1,310	-	-
LAKE TROUT. . . . .	4,400	890	-	-
WHITEFISH. . . . .	16,800	3,370	-	-
TOTAL. . . . .	20,095,700	2,729,970	23,655,200	3,584,440
SPECIES	LINES, LONG OR SET, AND HAND		SHOVELS	
	POUNDS	VALUE	POUNDS	VALUE
HALIBUT . . . . .	4,430,200	\$636,980	-	-
CLAM MEATS, RAZOR. . . . .	-	-	40,900	\$19,210
TOTAL. . . . .	4,430,200	636,980	40,900	19,210

1/ INCLUDES HAUL SEINES.

## WESTERN REGION OF ALASKA - OPERATING UNITS BY GEAR, 1964

ITEM	PURSE SEINES, SALMON 1/	POTS, CRAB, KING	GILL NETS		FISH WHEELS	TOTAL, EXCLUSIVE OF DUPLI- CATION
			ANCHOR, SET OR STAKE	DRIFT		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN: ON VESSELS. . . . .	127	155	-	362	-	640
ON BOATS AND SHORE; REGULAR. . . . .	6	15	1,800	3,000	6	4,700
TOTAL. . . . .	133	170	1,800	3,362	6	5,340
VESSELS, MOTOR. . . . .	25	37	-	181	-	240
GROSS TONNAGE . . . . .	532	4,001	-	1,960	-	6,466
BOATS, MOTOR. . . . .	29	5	1,500	1,688	-	3,170
GEAR: NUMBER. . . . .	27	4,200	-	-	-	-
LENGTH, YARDS. . . . .	10,000	-	1,500	1,869	6	-
SQUARE YARDS. . . . .	-	-	275,000	506,000	-	-
TOTAL. . . . .	10,000	-	1,072,000	1,766,000	-	-

1/ INCLUDES HAUL SEINES.

## WESTERN REGION OF ALASKA - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES 1/		POTS	
	POUNDS	VALUE	POUNDS	VALUE
SALMON:				
CHINOOK OR KING . . . . .	400	\$180	-	-
CHUM OR KETA. . . . .	988,200	64,000	-	-
PINK. . . . .	632,700	62,260	-	-
RED OR SOCKEYE. . . . .	56,300	11,560	-	-
SILVER OR COHO. . . . .	1,000	110	-	-
TOTAL. . . . .	1,678,600	138,110	-	-
CRABS, KING . . . . .	-	-	34,261,600	\$3,083,540
TOTAL. . . . .	1,678,600	138,110	34,261,600	3,083,540

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# PACIFIC COAST FISHERIES

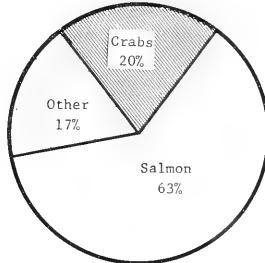
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## WESTERN REGION OF ALASKA - CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS				FISH WHEELS	
	ANCHOR, SET OR STAKE		DRIFT			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SALMON:						
CHINOOK OR KING . . . . .	1,878,700	\$334,010	2,623,600	\$458,030	23,900	\$4,220
CHUM OR KETA . . . . .	2,375,200	144,990	5,046,900	410,740	-	-
PINK . . . . .	594,400	63,360	4,034,400	430,330	-	-
RED OR SOCKEYE . . . . .	4,520,800	946,020	25,842,500	5,404,070	-	-
SILVER OR COHO . . . . .	246,100	31,080	420,600	50,410	-	-
TOTAL . . . . .	9,615,200	1,519,460	37,958,200	6,753,580	23,900	4,220
SHEEFISH . . . . .	600	120	-	-	-	-
TOTAL . . . . .	9,615,800	1,519,580	37,958,200	6,753,580	23,900	4,220

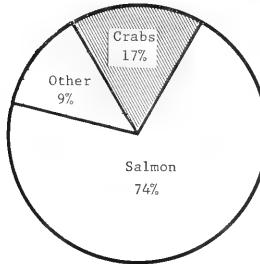
1/ INCLUDES HAUL SEINES.

ALASKA CATCH, 1964



TOTAL 492,613,600 pounds

VALUE OF THE ALASKA CATCH, 1964



TOTAL \$56,015,510

# PACIFIC COAST FISHERIES

## ALASKA

### NUMBER OF SALMON CAUGHT, BY REGIONS, 1964

SPECIES	SOUTHEASTERN ALASKA		CENTRAL ALASKA	
	NUMBER	VALUE	NUMBER	VALUE
CHINOOK OR KING . . . . .	357,191	\$2,750,590	21,908	\$114,680
CHUM OR KETA. . . . .	1,936,151	1,567,050	4,160,396	2,507,790
PINK. . . . .	16,581,462	7,735,430	24,944,564	8,682,580
RED OR SOCKEYE. . . . .	923,923	1,556,410	3,197,737	4,328,580
SILVER OR COHO. . . . .	1,587,910	2,376,130	865,774	1,124,330
TOTAL . . . . .	23,386,637	15,985,610	33,190,379	16,958,160

SPECIES	WESTERN ALASKA		TOTAL	
	NUMBER	VALUE	NUMBER	VALUE
CHINOOK OR KING . . . . .	260,007	\$796,440	639,105	\$3,651,910
CHUM OR KETA. . . . .	1,179,342	519,730	7,275,899	4,694,570
PINK. . . . .	1,746,736	555,050	45,272,762	17,173,960
RED OR SOCKEYE. . . . .	5,839,332	6,361,650	9,960,922	12,246,640
SILVER OR COHO. . . . .	104,655	81,500	2,558,339	3,582,060
TOTAL . . . . .	9,130,072	8,415,370	65,707,068	41,359,140

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 WEIGHTS OF SALMON, BY REGIONS, 1964, 1963, AND 1962

SPECIES	1964			ALL REGIONS		
	SOUTHEASTERN	CENTRAL	WESTERN	1964	1963	1962
				POUNDS	POUNDS	POUNDS
CHINOOK OR KING . . . . .	18.4	21.4	17.4	18.1	18.3	19.0
CHUM OR KETA. . . . .	10.1	8.4	7.1	8.6	8.0	8.1
PINK. . . . .	3.8	3.4	3.0	3.6	3.6	3.3
RED OR SOCKEYE. . . . .	6.0	5.7	5.2	5.4	5.7	5.7
SILVER OR COHO. . . . .	8.1	8.6	6.4	8.2	8.7	7.5

### WHOLESALING AND MANUFACTURING, 1964

ITEM	SOUTHEASTERN ALASKA	CENTRAL ALASKA	WESTERN ALASKA	TOTAL, EX- CLUSIVE OF DUPLICATION	
				NUMBER	NUMBER
WHALESALING AND MANUFACTURING, PERSONS ENGAGED. . . . .	2,589	3,349	1,760	7,648	
ESTABLISHMENTS:					
HANDLING FRESH AND FROZEN FISH AND SHELLFISH. . . . .	25	33	15		73
CURING FISH. . . . .	28	27	12		67
CANNING FISH AND SHELLFISH. . . .	27	42	16		82
MANUFACTURING INDUSTRIAL PRODUCTS . . . . .	2	1	-		3
TOTAL ESTABLISHMENTS, (EXCLUSIVE OF DUPLICATION)	53	83	40		173



# PACIFIC COAST FISHERIES

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## WASHINGTON

### CATCH BY DISTRICTS, 1964

SPECIES	PUGET SOUND		COASTAL		COLUMBIA RIVER	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FISH						
CARP . . . . .	6,183,400	\$340,086	29,300	\$1,436	946,600	\$4,734
COD . . . . .					-	-
FLOUNDERS:						
"SOLE"	10,272,700	734,443	244,300	18,965	-	-
OTHER . . . . .	502,200	40,908	500	24	6,300	144
HAKE . . . . .	715,800	11,443	-	-	-	-
HALIBUT . . . . .	12,130,500	2,321,051	17,800	2,652	1,200	156
HERRING, SEA . . . . .	3,959,700	129,709	700	82	-	-
LINGCOD . . . . .	3,453,200	182,008	147,200	6,819	5,400	202
OCEAN PERCH . . . . .	11,247,500	573,624	6,800	300	-	-
PERCH . . . . .	129,900	14,077	400	29	-	-
RATFISH . . . . .	1,374,000	8,742	-	-	-	-
ROCKFISHES . . . . .	5,203,200	263,459	636,800	28,487	84,300	2,360
SABLEFISH . . . . .	2,597,100	362,658	12,700	975	-	-
SALMON . . . . .						
CHINOOK OR KING . . . . .	2,254,300	920,198	1,737,700	668,409	1,523,800	496,809
CHUM OR KETA . . . . .	2,676,500	493,344	451,000	44,094	9,900	1,009
PINK . . . . .	43,400	617	1,600	276	-	-
RED OR SOCKEYE . . . . .	2,983,100	1,106,712	92,500	48,630	18,600	6,509
SILVER OR COHO . . . . .	5,255,600	1,524,609	2,526,500	752,235	1,500,300	458,617
TOTAL SALMON . . . . .	13,313,100	4,053,070	4,509,800	1,514,444	3,052,600	963,144
SHAD . . . . .	1,900	100	500	23	31,700	1,536
SHARKS:						
GRAYFISH . . . . .	1,837,000	9,185	-	-	-	-
SOUFIN . . . . .	1,200	44	-	-	-	-
UNCLASSIFIED . . . . .	1,800	9	-	-	-	-
TOTAL SHARKS . . . . .	1,840,000	9,238	-	-	-	-
SKATES . . . . .						
SMELT:						
ELACHON . . . . .	564,000	3,523	-	-	-	-
SILVER OR SILVER . . . . .	1,700	649	-	-	-	-
STEELHEAD TROUT <sup>1/</sup> . . . . .	53,600	5,971	321,600	23,798	515,300	52,051
STURGEON . . . . .	42,100	-	7,200	2,162	61,200	20,387
SUCKERS . . . . .	2,575	-	106,200	7,129	54,800	7,029
TOMCOD . . . . .	388,000	6,957	-	-	13,600	136
TUNA, ALBACORE . . . . .	839,000	136,344	115,500	18,189	100,200	15,134
TOTAL FISH . . . . .	75,112,600	9,220,635	6,559,300	1,625,514	4,873,400	1,067,013
SHELLFISH						
CRABS, Dungeness <sup>2/</sup> . . . . .	1,563,800	259,597	3,411,200	768,766	187,900	43,409
SHRIMP:						
BAY . . . . .	70,100	33,195	-	-	-	-
OCEAN . . . . .	-	-	314,100	23,560	-	-
CLAMS:						
HARD: <sup>3/</sup>						
BUTTER . . . . .	45,200	10,852	-	-	-	-
LITTLE NECK . . . . .	195,700	101,492	-	-	-	-
MANILA . . . . .	103,600	53,859	5,400	2,362	-	-
RAZOR <sup>4/</sup> . . . . .	-	-	167,000	111,356	-	-
TOTAL CLAMS . . . . .	345,500	166,203	172,400	113,718	-	-
OCTOPUS . . . . .	35,800	5,250	-	-	-	-
OYSTERS, MARKET: <sup>5/</sup>						
PACIFIC . . . . .	3,668,200	983,078	4,575,900	1,203,701	-	-
WESTERN . . . . .	33,700	97,800	-	-	-	-
TOTAL OYSTERS . . . . .	3,701,900	1,060,878	4,575,900	1,203,701	-	-
SQUID . . . . .	600	73	-	-	-	-
TOTAL SHELLFISH . . . . .	5,717,700	1,545,195	8,473,600	2,129,765	187,900	43,409
GRAND TOTAL . . . . .	80,630,300	10,765,831	15,032,900	3,755,279	5,061,300	1,110,422

<sup>1/</sup> DOES NOT INCLUDE STEELHEAD TROUT CAUGHT BY INDIANS AND SOLD IN OTHER STATES.

<sup>2/</sup> BASED ON AN AVERAGE YIELD OF 22 POUNDS PER DOZEN IN THE PUGET SOUND DISTRICT AND 24 POUNDS PER DOZEN IN THE COASTAL AND COLUMBIA RIVER DISTRICTS.

<sup>3/</sup> BASED ON A YIELD OF 25 PERCENT MEATS.

<sup>4/</sup> BASED ON A YIELD OF 42 PERCENT MEATS.

<sup>5/</sup> BASED ON A YIELD OF 10 PERCENT MEATS IN THE PUGET SOUND DISTRICT AND 12 PERCENT MEATS IN THE COASTAL DISTRICT.

## PACIFIC COAST FISHERIES

## PUGET SOUND DISTRICT OF WASHINGTON - OPERATING UNITS, 1964

ITEM	HAUL SEINES 1/	PURSE SEINES		BEAM TRAWLS	OTTER TRAWLS	BRUSH WEIRS	POUND NETS 2/
		HERRING	SALMON				
FISHERMEN:							
ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
33	29	1,459	8	8	395	-	-
220	-	8	2	-	-	4	8
TOTAL . . . . .	253	29	1,467	10	395	4	8
VESSELS, MOTOR, GROSS TONNAGE . . . . .	11	4	212	3	107	-	-
BOATS; MOTOR, . . . . .	106	169	7,600	51	5,079	-	-
OTHER, . . . . .	62	4	216	1	-	1	2
GEAR:	26	-	-	-	-	-	-
NUMBER YARDS . . . . .	99	4	214	4	107	1	2
LENGTH, YARDS . . . . .	7,535	1,700	114,320	-	-	-	-
YARDS AT MOUTH . . . . .	-	-	-	31	2,357	-	-
POTS							
ITEM	CRAB	OCTOPUS	SHRIMP	ANCHOR, SET OR STAKE		DRIFT, SALMON	
				NUMBER 2/	SALMON	SHARK	
FISHERMEN:							
ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
74	-	4	4	-	-	-	269
ON BOATS AND SHORE . . . . .	85	4	6	150	2	-	625
TOTAL . . . . .	159	4	10	150	2	-	894
VESSELS, MOTOR . . . . .	37	-	2	-	-	-	207
GROSS TONNAGE . . . . .	889	-	67	-	-	-	2,367
BOATS;	-	-	-	-	-	-	-
MOTOR, . . . . .	61	3	6	120	2	-	570
OTHER, . . . . .	1	-	-	30	-	-	-
GEAR:	7,350	150	250	150	2	-	777
NUMBER SQUARE YARDS . . . . .	-	-	-	37,500	2,000	-	4,744,500
LINES							
ITEM	HAND	TROLL			LONG OR SET WITH HOOKS	DIP NETS	REEF NETS
		SALMON	ALBACORE	LINGCOD			
FISHERMEN:							
ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
- 22	461	110	20	517	18	-	252
ON BOATS AND SHORE . . . . .	412	-	19	12	7	-	-
TOTAL . . . . .	22	873	110	529	25	-	252
VESSELS, MOTOR . . . . .	-	320	41	88	6	-	-
GROSS TONNAGE . . . . .	-	4,774	1,773	4,293	51	-	-
BOATS;	-	-	-	-	-	-	-
MOTOR, . . . . .	22	343	-	6	3	-	126
OTHER, . . . . .	-	-	-	-	-	-	-
GEAR:	44	2,990	465	3,813	25	-	63
NUMBER HOOKS . . . . .	86	13,430	465	350,395	-	-	-
DREDGES							
ITEM	CLAM	OYSTER		SHOVELS	BY HAND, OYSTER	TOTAL, EX- CLUSIVE OF DUPLICATION	
		COMMON	SUCTION			NUMBER	NUMBER
FISHERMEN:							
ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
4	19	3	-	-	-	-	3,100
ON BOATS AND SHORE . . . . .	4	10	-	260	145	-	2,162
TOTAL . . . . .	8	29	3	260	145	-	5,262
VESSELS, MOTOR . . . . .	2	7	1	-	-	-	943
GROSS TONNAGE . . . . .	22	115	41	-	-	-	24,150
BOATS;	-	-	-	-	-	-	-
MOTOR, . . . . .	2	5	-	-	33	14	1,396
OTHER, . . . . .	-	-	-	-	-	-	197
GEAR:	4	24	1	260	-	-	-
NUMBER YARDS AT MOUTH . . . . .	4	48	-	-	-	-	-

1/ INCLUDES 20 HAUL SEINES OPERATED ON INDIAN RESERVATIONS.

2/ FISHED ONLY ON INDIAN RESERVATIONS.

# PACIFIC COAST FISHERIES

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## PUGET SOUND DISTRICT OF WASHINGTON CATCH BY GEAR, 1964

SPECIES	HAUL SEINES 1/		PURSE SEINES			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, OTHER . . . . .	700	\$33	-	-	-	-
HERRING, SEA . . . . .	372,500	74,496	3,481,700	\$33,076	-	-
LINGCOD . . . . .	-	-	-	-	200	\$11
PERCH . . . . .	124,000	13,397	-	-	-	-
ROCKFISHES . . . . .	2,200	111	-	-	-	-
SALMON:						
CHINOOK OR KING . . . . .	66,000	22,441	-	-	478,900	162,825
CHUM OR KETA . . . . .	19,300	3,178	-	-	1,167,900	223,321
PINK . . . . .	-	-	-	-	1,000	183
RED OR SOCKEYE . . . . .	-	-	-	-	1,638,000	607,699
SILVER OR COHO . . . . .	51,400	13,877	-	-	1,332,600	373,132
SMELT:						
EULACHON . . . . .	700	259	-	-	-	-
SURF OR SILVER . . . . .	53,800	5,971	-	-	-	-
OCTOPUS . . . . .	1,200	168	-	-	-	-
QUID. . . . .	100	15	-	-	-	-
TOTAL . . . . .	691,900	133,966	3,481,700	33,076	4,638,600	1,367,171
SPECIES	BEAM TRAWLS		OTTER TRAWLS		BRUSH WEIRS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
COD . . . . .	-	-	6,182,300	\$340,026	-	-
FLOUNDERS:						
"SOLE" . . . . .	-	-	10,272,100	734,381	-	-
OTHER . . . . .	-	-	801,500	40,875	-	-
HAKE . . . . .	-	-	715,800	11,443	-	-
HERRING, SEA . . . . .	-	-	2,895,500	147,673	-	-
LINGCOD . . . . .	-	-	11,247,500	573,624	-	-
OCEAN PERCH . . . . .	-	-	5,900	680	-	-
PERCH . . . . .	-	-	1,374,000	8,742	-	-
RATFISH . . . . .	-	-	5,070,600	258,601	-	-
ROCKFISHES . . . . .	-	-	383,600	35,933	-	-
SABLEFISH . . . . .	-	-	1,900	100	-	-
SHAD . . . . .	-	-	-	-	-	-
SHARKS 3/	-	-	-	-	-	-
GRAYFISH . . . . .	-	-	1,820,400	9,102	-	-
OTHER . . . . .	-	-	1,800	9	-	-
SKATES . . . . .	-	-	564,000	3,523	-	-
STURGEON . . . . .	-	-	41,900	2,356	-	-
TOMOGEE . . . . .	-	-	368,000	6,957	-	-
SHRIMP, BAY . . . . .	10,200	\$3,747	-	-	-	-
OCTOPUS . . . . .	-	-	8,700	914	-	-
QUID. . . . .	-	-	500	58	-	-
TOTAL . . . . .	10,200	3,747	41,776,000	2,175,197	85,000	17,009
SPECIES	FOUND NETS 2/		CRAB		POTS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SALMON:						
CHINOOK OR KING . . . . .	70,500	\$25,365	-	-	-	-
CHUM OR KETA . . . . .	2,500	420	-	-	-	-
RED OR SOCKEYE . . . . .	4,100	1,521	-	-	-	-
SILVER OR COHO . . . . .	79,300	21,412	-	-	-	-
CRABS, DUNGENESS 4/	-	-	1,563,800	\$259,597	-	-
OCTOPUS . . . . .	-	-	-	-	25,800	\$4,124
TOTAL . . . . .	156,400	48,738	1,563,800	259,597	25,800	4,124
SPECIES	POTS - CONTINUED		GILL NETS		OCTOPUS	
	SHRIMP		ANCHOR, SET OR STAKE		SHARK	
SPECIES	POUNDS		POUNDS		POUNDS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
LINGCOD . . . . .	-	-	-	-	600	\$29
ROCKFISHES . . . . .	-	-	-	-	900	45
SALMON:						
CHINOOK OR KING . . . . .	-	-	440,400	\$149,745	-	-
CHUM OR KETA . . . . .	-	-	215,900	35,628	-	-
RED OR SOCKEYE . . . . .	-	-	300	117	-	-
SILVER OR COHO . . . . .	-	-	475,700	123,679	-	-
SHARKS, GRAYFISH 3/	-	-	-	-	16,600	83
STURGEON . . . . .	-	-	100	9	-	-
SHRIMP, BAY . . . . .	59,900	\$29,448	-	-	-	-
TOTAL . . . . .	59,900	29,448	1,132,400	309,178	18,100	157

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# PACIFIC COAST FISHERIES

## PUGET SOUND DISTRICT OF WASHINGTON CATCH BY GEAR, 1964 - Continued

SPECIES	GILL NETS - CONTINUED		LINES			
	DRIFT, SALMON		HAND		TROLL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
COD . . . . .	100	\$5	-	-	1,000	\$55
HALIBUT . . . . .	-	-	200	\$37	155,700	26,922
LINGCOD . . . . .	300	14	33,500	2,612	303,700	14,661
ROCKFISHES . . . . .	100	6	7,000	350	37,900	1,916
SALMON:						
CHINOOK OR KING . . . . .	457,600	169,302	-	-	804,100	377,983
CHUM OR KETA . . . . .	1,246,700	230,634	-	-	1,400	256
PINK . . . . .	1,200	221	-	-	41,100	7,195
RED OR SOCKEYE . . . . .	1,072,400	397,852	-	-	2,800	1,027
SILVER OR COHO . . . . .	1,463,000	409,653	-	-	1,765,500	556,145
STURGEON . . . . .	100	10	-	-	-	-
OCTOPUS . . . . .	-	-	100	24	-	-
TOTAL . . . . .	4,241,500	1,207,697	40,800	3,223	3,113,200	987,760
LINES - CONTINUED						
SPECIES	TROLL - CONTINUED				LONG OR SET WITH HOOKS	
	ALBACORE		LINGCOD			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, "SOLE" . . . . .	-	-	-	-	600	\$62
HALIBUT . . . . .	-	-	-	-	11,974,500	2,294,092
LINGCOD . . . . .	-	-	200,000	\$16,000	19,200	768
ROCKFISHES . . . . .	-	-	-	-	64,300	2,530
SABLEFISH . . . . .	-	-	-	-	2,213,500	346,725
SHARKS, SOUPFIN 3/	-	-	-	-	1,200	44
TUNA, ALBACORE . . . . .	839,000	\$136,344	-	-	-	-
TOTAL . . . . .	639,000	136,344	200,000	16,000	14,293,600	2,644,541
SPECIES	DIP NETS		REEF NETS		DREDGES	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
	HERRING, SEA . . . . .	20,500	\$5,128	-	-	-
SALMON:						
CHINOOK OR KING . . . . .	-	-	36,800	\$12,517	-	-
CHUM OR KETA . . . . .	-	-	2,800	497	-	-
PINK . . . . .	-	-	100	18	-	-
RED OR SOCKEYE . . . . .	-	-	265,500	98,496	-	-
SILVER OR COHO . . . . .	-	-	88,300	24,711	-	-
SMELT, EULACHON, . . . . .	1,000	390	-	-	-	-
CLAMS, HARD: 5/						
BUTTER . . . . .	-	-	-	-	26,200	\$6,295
LITTLE NECK . . . . .	-	-	-	-	8,300	4,261
TOTAL . . . . .	21,500	5,518	393,500	136,239	34,500	10,557
SPECIES	DREDGES - CONTINUED				SHOVELS	
	OYSTER AND BY HAND					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS, HARD:						
BUTTER . . . . .	-	-	-	-	19,000	\$4,556
LITTLE NECK . . . . .	-	-	-	-	188,400	57,231
MANILA . . . . .	-	-	-	-	103,600	53,659
OYSTERS, MARKET: 5/						
PACIFIC . . . . .	3,668,200	\$983,078	-	-	-	-
WESTERN . . . . .	33,700	97,800	-	-	-	-
TOTAL . . . . .	3,701,900	1,080,878	-	-	311,000	155,646

1/ THE SALMON CAUGHT BY HAUL SEINES WERE TAKEN ON INDIAN RESERVATIONS.

2/ FISHED ONLY ON INDIAN RESERVATIONS.

3/ INCLUDES THE TOTAL VOLUME OF SHARKS CAUGHT. SOME 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.

NOTE:--THE POUNDAGE AND VALUE OF THE CATCH SHOWN ABOVE INCLUDE THE FOLLOWING ITEMS: HALIBUT LIVERS, 79 POUNDS, VALUE \$28; LINGCOD LIVERS, 3,360 POUNDS, VALUE \$373; AND SOUPFIN SHARK LIVERS, 148 POUNDS, VALUE \$44.

# PACIFIC COAST FISHERIES

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## COASTAL DISTRICT OF WASHINGTON - OPERATING UNITS, 1964

ITEM	HAUL SEINES 1/	OTTER TRAWLS		
		FISH	SHRIMP	
FISHERMEN:	NUMBER	NUMBER	NUMBER	
ON VESSELS . . . . .	- 24	22	9	
ON BOATS AND SHORE . . . . .	-	-	-	
TOTAL . . . . .	24	22	9	
VESSELS, MOTOR . . . . .	-	6	3	
GROSS TONNAGE . . . . .	-	285	136	
BOATS:	NUMBER			
MOTOR . . . . .	7	-	-	
OTHER . . . . .	3	-	-	
GEAR:	NUMBER			
NUMBER . . . . .	7	6	3	
LENGTH, YARDS . . . . .	700	-	-	
YARDS AT MOUTH . . . . .	-	135	57	
ITEM	POTS, CRAB	GILL NETS		LINES, TROLL
		ANCHOR, SET OR STAKE 1/	DRI FT	SALMON
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS . . . . .	152	-	10	589
ON BOATS AND SHORE . . . . .	35	150	180	316
TOTAL . . . . .	187	150	190	905
VESSELS, MOTOR . . . . .	62	-	8	396
GROSS TONNAGE . . . . .	1,391	-	75	5,930
BOATS:	NUMBER			
MOTOR . . . . .	20	115	166	263
OTHER . . . . .	-	25	10	-
GEAR:	NUMBER			
SQUARE YARDS . . . . .	15,800	140	184	3,250
HOOKS . . . . .	-	31,000	374,000	15,300
ITEM	LINES, TROLL - CONTINUED		DIP NETS 2/	DREDGES, OYSTER
	ALbacore	LINGCOD		COMMON
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS . . . . .	55	3	-	53
ON BOATS AND SHORE . . . . .	-	1	16	6
TOTAL . . . . .	55	4	16	61
VESSELS, MOTOR . . . . .	28	3	-	19
GROSS TONNAGE . . . . .	686	38	-	433
BOATS:	NUMBER			
MOTOR . . . . .	-	1	4	4
OTHER . . . . .	-	-	2	-
GEAR:	NUMBER			
YARDS AT MOUTH . . . . .	276	8	16	46
HOOKS . . . . .	-	-	-	92
ITEM	DREDGES, OYSTER - CONTINUED		SHOVELS, CLAM	BY HAND, OYSTER
	SUCTION			
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS . . . . .	2	-	-	796
ON BOATS AND SHORE . . . . .	-	551	150	1,403
TOTAL . . . . .	2	551	150	2,199
VESSELS, MOTOR . . . . .	1	-	-	465
GROSS TONNAGE . . . . .	24	-	-	7,792
BOATS:	NUMBER			
MOTOR . . . . .	-	-	-	570
OTHER . . . . .	-	-	-	40
GEAR, NUMBER	1	551	-	-

1/ OPERATED ON INDIAN RESERVATIONS.

2/ INCLUDES 14 DIP NETS OPERATED ON INDIAN RESERVATIONS.

# PACIFIC COAST FISHERIES

## COASTAL DISTRICT OF WASHINGTON - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES 1/		OTTER TRAWLS			
			FISH		SHRIMP	
COD.	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, "SOLE"	-	-	29,200	\$1,431	100	\$5
OTHER	-	-	241,400	18,775	2,900	180
HERRING, SEA	700	\$32	500	24	-	-
LINGCOD.	-	-	57,800	2,891	2,300	112
OCEAN PERCH.	-	-	6,100	269	700	31
PERCH.	400	29	-	-	-	-
ROCKFISHES	-	-	436,100	20,762	11,700	550
SABLEFISH.	-	-	11,600	859	1,100	116
SMELT, SURF OR SILVER	298,400	22,078	800	43	-	-
STURGEON	-	-	-	-	314,100	23,560
SHRIMP, OCEAN	-	-	-	-	-	-
TOTAL . . . . .	299,500	22,169	765,500	45,054	332,600	24,554
SPECIES	POTS, CRAB		GILL NETS			
			ANCHOR, SET OR STAKE 1/		DRIFT	
SALMON:	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CHINOOK OR KING	-	-	314,400	\$75,445	366,600	\$105,150
CHUM OR KETA	-	-	26,900	21,603	424,300	42,152
RED OR SOCKEYE	-	-	92,300	48,565	-	-
SILVER OR COHO	-	-	512,900	123,067	399,100	101,596
SHAD	-	-	500	23	-	-
STEELHEAD TROUT	-	-	7,200	2,162	-	-
STURGEON	-	-	100	8	105,300	7,078
CRABS, Dungeness 2/	3,411,200	\$768,786	-	-	-	-
TOTAL . . . . .	3,411,200	768,786	954,300	251,983	1,295,300	255,978
SPECIES	LINES, TROLL					
	SALMON		ALBACORE		LINGCOD	
FLOUNDERS, "SOLE"	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HALIBUT.	100	\$10	-	-	-	-
HALIBUT.	17,600	2,652	-	-	-	-
LINGCOD.	62,100	3,416	-	-	5,000	\$400
ROCKFISHES	189,000	7,175	-	-	-	-
SALMON:						
CHINOOK OR KING	1,056,700	487,814	-	-	-	-
CHUM OR KETA	300	49	-	-	-	-
PINK	1,600	276	-	-	-	-
RED OR SOCKEYE	200	65	-	-	-	-
SILVER OR COHO	1,714,500	527,550	-	-	-	-
TUNA, ALBACORE	-	-	115,500	\$18,189	-	-
TOTAL . . . . .	3,062,300	1,029,007	115,500	18,189	5,000	400
SPECIES	DIP NETS 1/		DREDGES, OYSTER AND BY HAND		SHOVELS	
SMELT, SURF OR SILVER	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CLAMS:	23,200	\$1,720	-	-	-	-
HARD, MANILA 3/	-	-	-	-	5,400	\$2,362
RAZOR 4/	-	-	-	-	167,000	111,356
OYSTERS, MARKET, PACIFIC 5/	-	-	4,575,900	\$1,203,701	-	-
TOTAL . . . . .	23,200	1,720	4,575,900	1,203,701	172,400	113,718

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

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## COLUMBIA RIVER DISTRICT OF WASHINGTON OPERATING UNITS, 1964

ITEM	HAUL SEINES	POTS, CRAB	GILL NETS		
			ANCHOR, SET OR STAKE <sup>1/</sup>	DRIFT	
				SALMON	SMAELT
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS . . . . .	-	26	-	8	-
ON BOATS AND SHORE . . . . .	10	4	40	251	30
TOTAL . . . . .	10	30	40	259	30
VESSELS, MOTOR . . . . .	-	11	-	6	-
GROSS TONNAGE . . . . .		189	-	50	-
BOATS:					
MOTOR . . . . .	3	2	25	239	30
OTHER . . . . .	1	-	9	-	-
GEAR:					
NETTING . . . . .	4	2,165	34	245	30
LENGTH, YARDS . . . . .	400	-	-	-	-
SQUARE YARDS . . . . .	-	-	10,000	750,000	27,000
ITEM	LINES, TROLL			DIP NETS <sup>2/</sup>	TOTAL, EXCLUSIVE OF DUPLI- CATION
	SALMON	ALBACORE			
	NUMBER	NUMBER	NUMBER	NUMBER	
FISHERMEN:					
ON VESSELS . . . . .	150	25	-		182
ON BOATS AND SHORE . . . . .	234	-	133		648
TOTAL . . . . .	384	25	133		830
VESSELS, MOTOR . . . . .	105	16	-		119
GROSS TONNAGE . . . . .	1,387	274	-		1,594
BOATS:					
MOTOR . . . . .	195	-	32		480
OTHER . . . . .	-	-	1		11
GEAR:					
NUMBER . . . . .	1,332	139	133		-
HOOKS . . . . .	5,600	139	-		-

<sup>1/</sup> OPERATED BY INDIANS.

<sup>2/</sup> INCLUDES 51 DIP NETS OPERATED BY INDIANS.

## COLUMBIA RIVER DISTRICT OF WASHINGTON CATCH BY GEAR, 1964

SPECIES	HAUL SEINES	POTS, CRAB	GILL NETS		
			ANCHOR, SET OR STAKE <sup>1/</sup>		
	POUNDS	VALUE	POUNDS	VALUE	POUNDS
CARP . . . . .	946,800	\$4,734	-	-	-
SALMON:					
CHINOOK OR KING . . . . .	-	-	-	-	314,000
RED OR SOCKEYE . . . . .	-	-	-	-	14,000
SILVER OR COHO . . . . .	-	-	-	-	4,400
SHAD . . . . .	-	-	-	-	1,300
SURGEON . . . . .	-	-	-	-	55
SUCKERS . . . . .	13,600	136	-	-	2,300
CRABS, DUNGENESS <sup>2/</sup> . . . . .	-	-	187,900	\$43,409	318
TOTAL . . . . .	960,400	4,870	187,900	43,409	336,000
					\$84,562

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

## PACIFIC COAST FISHERIES

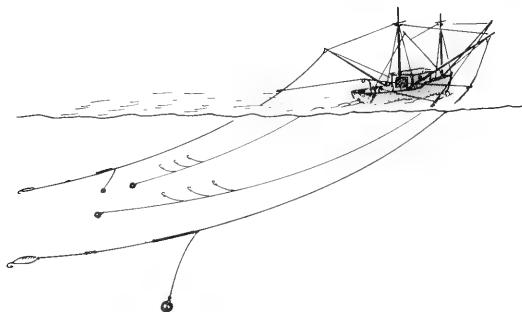
**COLUMBIA RIVER DISTRICT OF WASHINGTON**  
**CATCH BY GEAR, 1964 - Continued**

SPECIES	GILL NETS - CONTINUED				LINES, TROLL	
	DRAFT				SALMON	
	SALMON AND SHAD		SMELT			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, OTHER . . . . .	6,300	\$144	-	-	-	-
HALIBUT . . . . .	-	-	-	-	1,200	\$156
LINGCOD . . . . .	-	-	-	-	5,400	202
ROCKFISHES . . . . .	-	-	-	-	84,300	2,360
SALMON:						
CHINOOK OR KING . . . . .	907,300	299,422	-	-	208,800	96,388
CHUM OR KETA . . . . .	9,400	941	-	-	500	68
RED OR SOCKEYE . . . . .	4,600	1,747	-	-		
SILVER OR COHO . . . . .	379,500	100,566	-	-	1,111,800	356,353
SHAD . . . . .	30,400	1,481	-	-	-	-
SMELT, EULACHON . . . . .	-	-	119,800	\$16,451	-	-
STEELHEAD TROUT . . . . .	61,100	20,357	-	-	-	-
STURGEON . . . . .	52,400	6,697	-	-	100	14
TOTAL . . . . .	1,451,000	431,355	119,800	16,451	1,412,100	455,541

SPECIES	LINES, TROLL - CONTINUED		DIP NETS 1/	
	ALBACORE			
	POUNDS	VALUE	POUNDS	VALUE
SALMON, CHINOOK OR KING . . . . .	-	-	93,700	\$22,500
SILVER OR COHO . . . . .	-	-	4,600	970
SMELT, EULACHON . . . . .	-	-	395,500	9700
STEELHEAD TROUT . . . . .	-	-	100	35,600
TUNA, ALBACORE . . . . .	100,200	\$15,134	-	30
TOTAL . . . . .	100,200	15,134	493,900	59,100

1/ FISHED ONLY ON INDIAN RESERVATIONS

2/ BASED ON AN AVERAGE OF 24 POUNDS PER DOZEN.



### Salmon troll line

# PACIFIC COAST FISHERIES

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## OREGON

### CATCH BY DISTRICTS, 1964

SPECIES	COLUMBIA RIVER		COASTAL	
	POUNDS	VALUE	POUNDS	VALUE
FISH				
COD . . . . .	200,300	\$10,017	200	\$9
FLOUNDERS:				
"SOLE" . . . . .	8,816,600	501,903	5,960,000	341,049
OTHER . . . . .	575,500	26,225	69,000	3,008
HAKE . . . . .	50,000	1,250	-	-
HALIBUT . . . . .	40,700	7,630	96,300	17,370
HERRING, SEA . . . . .	-	-	32,600	9,793
LINGCOD . . . . .	598,000	29,863	189,000	9,680
OCEAN PERCH . . . . .	5,801,100	259,051	3,917,900	165,636
PERCH . . . . .	-	-	1,400	140
ROCKFISHES . . . . .	3,566,500	150,362	1,612,500	63,104
SABLEFISH . . . . .	178,700	14,930	229,100	25,375
SALMON:				
CHINOOK OR KING . . . . .	3,385,000	1,106,803	601,500	269,385
CHUM OR KETA . . . . .	14,500	1,160	-	-
PINK . . . . .	100	115	-	-
RED OR SOCKEYE . . . . .	50,200	17,937	-	-
SILVER OR COHO . . . . .	2,195,600	558,261	3,619,800	1,101,668
TOTAL SALMON . . . . .	5,645,600	1,684,176	4,221,300	1,371,053
SEA BASS, WHITE . . . . .				
SHAD . . . . .	273,600	13,133	9,100	365
SHARKS, SOUPFIN . . . . .	1,000	24	510,400	45,940
SKATES . . . . .	150,000	3,750	80,000	2,000
SMELT:				
EULACHON . . . . .	326,400	44,067	-	-
SURF OR SILVER . . . . .	-	-	2,700	265
STEELHEAD TROUT . . . . .	361,200	99,182	-	-
STRIPED BASS . . . . .	-	-	46,500	6,975
STURGEON . . . . .	150,700	12,777	9,700	483
TUNA, ALbacore . . . . .	3,408,000	553,800	1,047,300	162,326
TOTAL FISH . . . . .	30,143,900	3,412,160	18,035,600	2,224,772
SELLFISH				
CRABS, DUNGENESS 1/ . . . . .	948,900	227,228	2,406,200	590,000
CRAWFISH, FRESH-WATER . . . . .	11,200	3,352	-	-
SHRIMP, OCEAN . . . . .	233,400	18,500	5,046,100	430,500
CLAMS:				
RAZOR 2/ . . . . .	-	-	14,600	8,800
MIXED 3/ . . . . .	-	-	13,200	7,550
TOTAL CLAMS . . . . .	-	-	27,800	16,350
OYSTERS, MARKET, PACIFIC 4/ . . . . .	-	-	334,500	105,900
TOTAL SHELLFISH . . . . .	1,193,500	249,090	7,616,600	1,142,750
WHALE PRODUCTS:				
MEAL . . . . .	4,000	187	-	-
MEAT . . . . .	7,400	518	-	-
OIL, SPERM . . . . .	4,500	460	-	-
TOTAL WHALE PRODUCTS . . . . .	15,900	1,165	-	-
GRAND TOTAL . . . . .	31,353,900	3,662,415	25,852,400	3,367,522

1/ BASED ON AN AVERAGE YIELD 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.

# PACIFIC COAST FISHERIES

## COLUMBIA RIVER DISTRICT OF OREGON - OPERATING UNITS, 1964

ITEM	OTTER TRAWLS		POTS	
	FISH	SHRIMP	CRAB	CRAWFISH
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN: ON VESSELS, . . . . . ON BOATS AND SHORE, . . . . .	130 -	11 -	79 32	- 10
TOTAL, . . . . .	130	11	111	10
VESSELS, MOTOR, GROSS TONNAGE, . . . . .	34 1,684	3 207	36 590	- -
BOATS, MOTOR, . . . . .	-	-	17	6
GEAR, NUMBER, . . . . .	34 767	3 57	9,100 -	275
	GILL NETS		LINES	
ITEM	ANCHOR, SET OR STAKE 1/	DRIFT		TROLL
		SALMON AND SHAD	SMELT	SALMON
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN: ON VESSELS, . . . . . ON BOATS AND SHORE, . . . . .	- 80	- 440	- 40	169 02
TOTAL, . . . . .	80	440	40	231
VESSELS, MOTOR, GROSS TONNAGE, . . . . .	-	-	-	103 1,516
BOATS, MOTOR, . . . . .	60	399	40	52
OTHER, . . . . .	15	-	-	-
GEAR, NUMBER, SQUARE YARDS, . . . . .	75 22,500	399 1,217,000	40 36,000	800 3,800
	LINES - CONTINUED			HARPOON
ITEM	TROLL - CONTINUED		LONG OR SET WITH HOOKS	
	ALBACORE	OTHER	TOTAL, EXCLUSIVE OF DUPLI- CATION	
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN: ON VESSELS, . . . . . ON BOATS AND SHORE, . . . . .	333 -	1 -	14 -	3 -
TOTAL, . . . . .	333	1	14	3
1,215				
VESSELS, MOTOR, GROSS TONNAGE, . . . . .	141 4,544	1 17	3 87	1 96
BOATS, MOTOR, . . . . .	-	-	-	-
OTHER, . . . . .	-	-	-	-
GEAR, NUMBER, HOOKS, . . . . .	1,505 1,505	2 4	86 8,000	1 -

1/ OPERATED BY INDIANS.

# PACIFIC COAST FISHERIES

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## COLUMBIA RIVER DISTRICT OF OREGON - CATCH BY GEAR, 1964

SPECIES	OTTER TRAWLS				POTS			
	FISH		SHRIMP		CRAB		CRAWFISH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
COD . . . . .	200,300	\$10,017	-	-	-	-	-	-
FLOUNDERS: "SOLE" . . . . .	8,812,700	501,681	3,900	\$222	-	-	-	-
OTHER . . . . .	503,500	24,427	-	-	-	-	-	-
HAKE . . . . .	50,000	1,250	-	-	-	-	-	-
LINGCOD . . . . .	594,500	29,725	700	33	-	-	-	-
OCEAN PERCH . . . . .	5,801,000	259,045	100	6	-	-	-	-
ROCKFISHES . . . . .	3,545,900	149,588	6,900	269	-	-	-	-
SABLEFISH . . . . .	161,200	12,366	200	17	-	-	-	-
SHARKS, SOUPFIN . . . . .	1,000	24	-	-	-	-	-	-
SKATES . . . . .	150,000	3,750	-	-	-	-	-	-
STURGEON . . . . .	21,500	1,252	-	-	-	-	-	-
CRABS, DUNGENESS . . . . .	-	-	-	-	-	-	-	-
CRAWFISH, FRESH-WATER . . . . .	-	-	233,400	16,500	-	-	11,200	\$3,362
SHRIMP, OCEAN . . . . .	-	-	-	-	-	-	-	-
TOTAL . . . . .	19,841,600	993,125	245,200	19,057	948,900	227,228	11,200	3,362
GILL NETS								
SPECIES	ANCHOR, SET OR STAKE 1/		DRIFT				TROLL	
	OR STAKE 1/		SALMON AND SHAD		SMELT		SALMON	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, OTHER . . . . .	-	-	72,000	\$1,798	-	-	-	-
HALIBUT . . . . .	-	-	-	-	-	-	500	\$80
LINGCOD . . . . .	-	-	-	-	-	-	2,300	78
ROCKFISHES . . . . .	-	-	-	-	-	-	11,300	428
SALMON: CHINOOK OR KING . . . . .	331,700	\$82,932	2,934,300	968,317	-	-	119,000	55,554
CHUM OR KETA . . . . .	-	-	14,500	1,160	-	-	-	-
PINK . . . . .	-	-	100	15	-	-	-	-
RED OR SOCKEYE . . . . .	38,200	13,356	12,000	4,581	-	-	-	-
SILVER OR COHO . . . . .	15,400	3,243	1,567,700	360,568	-	-	612,700	194,450
SHAD . . . . .	-	-	273,600	13,133	-	-	-	-
SMELT, EULACHON . . . . .	-	-	-	-	326,400	\$44,067	-	-
STEELHEAD TROUT . . . . .	48,900	11,726	311,900	87,342	-	-	400	114
STURGEON . . . . .	-	-	129,200	11,525	-	-	-	-
TOTAL . . . . .	434,200	111,257	5,315,300	1,448,439	326,400	44,067	746,200	250,704
LINES - CONT INUED								
SPECIES	TROLL				HARPOON			
	ALbacore		OTHER		LONG OR SET WITH HOOKS			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HALIBUT . . . . .	-	-	-	-	40,200	\$7,550	-	-
LINGCOD . . . . .	-	-	200	\$15	300	12	-	-
ROCKFISHES . . . . .	-	-	-	-	2,400	77	-	-
SABLEFISH . . . . .	-	-	-	-	17,300	2,547	-	-
TUNA, ALbacore . . . . .	3,408,000	\$553,600	-	-	-	-	-	-
WHALE PRODUCTS:								
MEAL . . . . .	-	-	-	-	-	-	4,000	\$187
MEAT . . . . .	-	-	-	-	-	-	7,400	516
OIL, SPERM . . . . .	-	-	-	-	-	-	4,500	460
TOTAL . . . . .	3,408,000	553,600	200	15	60,200	10,186	15,900	1,165

1/ FISHED ONLY ON INDIAN RESERVATIONS.

NOTE:--THE FOLLOWING SPECIES LANDED IN THE COLUMBIA RIVER DISTRICT WERE CAUGHT OFF THE COAST: COD, "SOLE", HALIBUT, LINGCOD, OCEAN PERCH, ROCKFISHES, SHARKS, SKATES, TUNA, CRAB, SHRIMP, WHALES, THE OTTER TRawl CATCH OF FLoundERS AND STURGEON, AND MOST OF THE TROLL CATCH OF SALMON.

# PACIFIC COAST FISHERIES

## COASTAL DISTRICT OF OREGON - OPERATING UNITS, 1964

ITEM	HAUL SEINES	OTTER TRAWLS		
		FISH	SHRIMP	
FISHERMEN:				
ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	
ON BOATS AND SHORE . . . . .	-	108	79	
TOTAL . . . . .	12	-	-	
VESSELS, MOTOR . . . . .				
GROSS TONNAGE. . . . .	NUMBER	30	25	
BOATS:				
MOTOR. . . . .	4	1,324	778	
OTHER. . . . .	2	-	-	
GEAR:				
NUMBER . . . . .	4	30	25	
LENGTH, YARDS . . . . .	400	-	-	
YARDS AT MOUTH . . . . .	-	672	475	
<hr/>				
ITEM	POTS, CRAB	GILL NETS, SHAD		
		ANCHOR, SET OR STAKE	DRIFT	
FISHERMEN:				
ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	
ON BOATS AND SHORE . . . . .	255	-	-	
TOTAL . . . . .	73	30	48	
VESSELS, MOTOR . . . . .				
GROSS TONNAGE. . . . .	110	-	-	
BOATS, MOTOR . . . . .	2,028	-	-	
GEAR:				
NUMBER . . . . .	50	26	45	
SQUARE YARDS . . . . .	29,400	118	45	
	-	30,000	90,000	
<hr/>				
ITEM	LINES			
	TROLL		LONG OR SET WITH HOOKS	
	SALMON	ALBACORE	NUMBER	
FISHERMEN:				
ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	
ON BOATS AND SHORE . . . . .	637	290	13	
TOTAL . . . . .	452	6	-	
VESSELS, MOTOR . . . . .				
GROSS TONNAGE. . . . .	1,069	296	13	
BOATS, MOTOR . . . . .				
GEAR:				
NUMBER . . . . .	377	139	4	
HOOKS. . . . .	5,582	3,187	57	
	383	4	-	
VESSELS, MOTOR . . . . .				
GROSS TONNAGE. . . . .	3,690	1,424	88	
BOATS, MOTOR . . . . .	16,950	1,424	8,660	
<hr/>				
ITEM	DREDGES, OYSTER, COMMON	SHOVELS	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:				
ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	NUMBER
ON BOATS AND SHORE . . . . .	3	-	-	998
TOTAL . . . . .	2	125	20	683
VESSELS, MOTOR . . . . .				
GROSS TONNAGE. . . . .	5	125	20	1,681
BOATS:				
MOTOR. . . . .	1	-	-	494
OTHER. . . . .	20	-	-	9,230
GEAR:				
NUMBER . . . . .	1	-	2	465
YARDS AT MOUTH . . . . .	-	-	2	4
	4	125	-	-
	8	-	-	-

# PACIFIC COAST FISHERIES

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## COASTAL DISTRICT OF OREGON - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		OTTER TRAWLS				POTS, CRAB		
			FISH		SHRIMP				
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE			
COD . . . . .	-	-	200	\$9	-	-	-	-	
FLUONDERS; "SOLE"	-	-	5,874,200	336,022	84,500	\$4,815	-	-	
OTHER . . . . .	200	\$10	68,800	2,998	-	-	-	-	
HERRING, SEA	32,600	9,793	-	-	-	-	-	-	
LINGCOD . . . . .	-	-	158,600	8,625	14,400	722	-	-	
OCEAN PERCH . . . . .	-	-	3,915,000	165,507	2,900	129	-	-	
BURCH . . . . .	1,400	140	-	-	-	-	-	-	
ROCKFISHES . . . . .	-	-	1,426,300	55,652	149,600	6,264	-	-	
SABLEFISH . . . . .	-	-	101,400	7,822	4,900	375	-	-	
SKATES . . . . .	-	-	80,000	2,000	-	-	-	-	
SMELT, SURF OR SILVER	2,700	265	-	-	-	-	-	-	
STURGEON . . . . .	-	-	9,700	483	-	-	-	-	
CRABS, DUNGENESS . . . . .	-	-	-	-	-	-	2,406,200	\$590,000	
SHRIMP, OCEAN . . . . .	-	-	-	-	5,046,100	430,500	-	-	
TOTAL . . . . .	36,900	10,208	11,634,200	579,118	5,302,400	442,825	2,408,200	590,000	
<hr/>									
SPECIES	GILL NETS, SHAD				LINES				
	ANCHOR, SET OR STAKE		DRIFT		TROLL				
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS
HALIBUT . . . . .	-	-	-	-	2,400	\$324	-	-	-
LINGCOD . . . . .	-	-	-	-	14,300	473	-	-	-
ROCKFISHES . . . . .	-	-	-	-	20,400	715	-	-	-
SALMON . . . . .	-	-	-	-	-	-	-	-	-
CHINOOK OR KING, SILVER OR COHO . . . . .	-	-	-	-	601,500	269,385	-	-	-
SEA BASS, WHITE . . . . .	-	-	-	-	3,619,800	1,101,668	-	-	-
SHAD . . . . .	100,000	\$9,000	410,400	\$36,940	9,100	365	-	-	-
STRIPED BASS . . . . .	10,000	1,500	36,500	5,475	-	-	-	-	-
TUNA, ALbacore . . . . .	-	-	-	-	-	-	1,047,300	\$162,326	-
TOTAL . . . . .	110,000	10,500	446,900	42,415	4,267,500	1,372,931	1,047,300	162,326	-
<hr/>									
SPECIES	LINES - CONTINUED			DREDGES, OYSTER AND BY HAND			SHOVELS		
	LONG OR SET WITH HOOKS			POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS
FLUONDERS, "SOLE". . . . .	2,100	\$212	-	-	-	-	-	-	-
HALIBUT . . . . .	93,900	17,046	-	-	-	-	-	-	-
LINGCOD . . . . .	1,700	50	-	-	-	-	-	-	-
ROCKFISHES . . . . .	16,200	453	-	-	-	-	-	-	-
SABLEFISH . . . . .	122,600	17,178	-	-	-	-	-	-	-
CLAMS:									
RAZOR, . . . . .	-	-	-	-	-	-	14,600	\$8,800	-
MIXED, . . . . .	-	-	-	-	-	-	13,200	7,550	-
OYSTERS, MARKET, PACIFIC .	-	-	334,500	\$105,900	-	-	-	-	-
TOTAL . . . . .	236,700	34,949	334,500	105,900	27,800	-	27,800	16,350	-

## PACIFIC COAST FISHERIES

## CALIFORNIA

## CALIFORNIA - CATCH BY DISTRICTS, 1964

SPECIES	NORTHERN		SAN FRANCISCO		MONTEREY		
	FISH	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES . . . . .	-	-	-	30,100	\$2,535	2,633,200	\$44,315
BONITO . . . . .	-	-	-	-	-	1,300	56
CABEZZONE . . . . .	-	-	-	-	-	1,900	70
CARP . . . . .	-	-	-	194,500	11,466	-	-
FLOUNDERS: . . . . .							
ARROWTOOTH HALIBUT . . . . .	9,100	\$391	700	28	-	-	-
CALIFORNIA HALIBUT . . . . .	400	98	183,700	43,473	42,900	10,359	
SAND DABS . . . . .	148,600	11,849	306,600	20,244	112,200	6,949	
"SOLES": . . . . .							
DOVER . . . . .	6,252,200	390,708	2,737,000	154,077	67,100	3,355	
ENGLISH . . . . .	1,762,400	140,232	1,992,700	154,459	389,800	30,733	
PETRALE . . . . .	1,090,700	124,846	948,100	118,010	200,800	26,225	
REX . . . . .	642,700	46,396	459,500	31,213	183,300	9,172	
SAND . . . . .	16,000	1,745	256,300	29,565	800	98	
UNCLASSIFIED . . . . .	300	16	2,400	135	15,400	1,502	
OTHER . . . . .	91,500	4,675	233,500	13,059	69,100	6,209	
HAKE . . . . .	-	-	17,500	295	56,800	924	
HALIBUT . . . . .	3,000	917	155,800	41,915	-	-	
HARDHEAD . . . . .	-	-	30,700	2,603	318,300	29,794	
HEART, SEA . . . . .	300	15	23,200	1,983	87,500	5,389	
KING CROAKER . . . . .	-	-	273,600	21,644	57,100	5,447	
LINCOLN . . . . .	457,700	33,355	-	-	-	-	
MACKERELS: . . . . .							
JACK . . . . .	900	25	1,700	75	2,584,200	66,116	
PACIFIC . . . . .	-	-	-	-	2,600	64	
PERCH . . . . .	44,600	5,154	17,600	3,379	16,600	2,397	
POMPANO . . . . .	-	-	-	-	56,200	19,007	
ROCKFISHES . . . . .	1,865,200	94,033	1,750,300	95,220	2,174,900	119,574	
SABLEFISH . . . . .	11,136,700	109,190	826,300	31,666	410,700	17,992	
SALMON: . . . . .							
CHINOOK OR KING . . . . .	4,025,100	2,171,306	3,105,600	1,898,029	309,000	189,740	
SILVER OR COHO . . . . .	1,398,200	489,370	401,700	148,629	69,400	25,678	
TOTAL SALMON . . . . .	5,423,300	2,600,676	3,507,500	2,046,658	378,400	215,418	
SARDINES: PACIFIC . . . . .	-	-	9,400	2,272	414,600	20,847	
SEA BASS, WHITE . . . . .	-	-	136,300	7,100	26,300	4,655	
SHARKS, UNCLASSIFIED . . . . .	1,100	71	107,400	1,226	41,600	1,472	
SKATES . . . . .	30,900	122	85,200	10,951	77,800	1,195	
SMELT . . . . .	230,000	12,641	-	-	36,600	2,278	
SWORDFISH . . . . .	-	-	-	-	900	480	
TUNA: . . . . .							
ALbacore . . . . .	4,750,400	653,095	1,336,800	184,280	2,272,400	312,733	
SKIPJACK . . . . .	-	-	1,167,000	127,101	100	8	
YELLOWFIN . . . . .	-	-	1,511,700	232,088	-	-	
TOTAL TUNA . . . . .	4,750,400	653,095	4,035,500	543,469	2,272,500	312,741	
TURBOT . . . . .	6,000	339	58,000	3,054	1,100	21	
WHITEBAIT . . . . .	180,400	13,432	10,900	1,166	-	-	
UNCLASSIFIED: . . . . .			300	83	200	12	
FOR FOOD . . . . .	-	-	42,900	858	48,900	937	
BAIT AND ANIMAL FOOD . . . . .	852,000	17,040	-	-	-	-	
TOTAL FISH . . . . .	25,036,400	4,321,061	18,442,000	3,393,681	12,980,200	966,013	
	SHELLFISH						
CRABS: . . . . .							
Dungeness . . . . .	984,400	297,849	821,000	315,570	7,800	3,320	
ROCK . . . . .	9,300	930	100	9	600	47	
TOTAL CRABS . . . . .	993,700	298,779	821,100	315,579	8,400	3,367	
SHRIMP, OCEAN . . . . .	1,065,200	106,516	35,000	3,701	5,600	4,050	
ABALONE 1/2 . . . . .	-	-	7,700	7,238	100	89	
CLAMS, HARD 2/3 . . . . .	1,000	635	25,200	1,181	6,700	664	
OCTOPUS . . . . .	4,600	200	-	-	-	-	
OYSTERS, MARKET: 3/4							
CALIFORNIA . . . . .	-	-	4,900	10,277	-	-	
PACIFIC . . . . .	894,500	161,012	205,300	37,492	8,400	1,520	
TOTAL OYSTERS . . . . .	894,500	161,012	213,200	47,769	8,400	1,520	
MOLLUSKS, UNCLASSIFIED . . . . .	-	-	-	-	9,101,600	242,950	
TOTAL SHELLFISH . . . . .	2,959,200	567,142	1,102,200	375,468	9,131,500	252,754	

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# PACIFIC COAST FISHERIES

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## CALIFORNIA - CATCH BY DISTRICTS, 1964 - Continued

SPECIES	NORTHERN		SAN FRANCISCO		MONTEREY	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
WHALE PRODUCTS						
MEAL . . . . .	-	-	3,323,600	\$155,173	-	-
MEAT . . . . .	-	-	4,514,400	382,003	-	-
OIL:						
SPERM. . . . .	-	-	396,500	25,224	-	-
WHALE. . . . .	-	-	2,758,500	169,971	-	-
TOTAL WHALE PRODUCTS..	-	-	10,993,200	732,371	-	-
GRAND TOTAL . . . . .	27,995,600	\$4,888,203	30,537,400	4,501,520	22,111,700	1,216,767
SPECIES'	SANTA BARBARA		SAN PEDRO		SAN DIEGO	
FISH	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES. . . . .	1,100	\$65	2,107,300	\$34,977	3,400	\$169
BARRACUDA . . . . .	59,000	6,914	258,900	43,542	16,300	2,505
BONITO . . . . .	12,000	-	2,460,800	59,971	138,300	5,406
CARPONE . . . . .	3,200	193	100	11	-	-
CABRILLA:			13,600	2,190	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT . . . . .	371,200	81,855	384,100	90,569	293,800	62,428
SAND DABS. . . . .	500	32	300	57	19,100	4,995
"SOLE". . . . .						
DOVER. . . . .	208,900	12,350	-	-	-	-
ENGLISH. . . . .	427,800	28,681	-	-	-	-
PETRALE. . . . .	457,100	53,314	-	-	1,000	246
REX. . . . .	124,900	6,615	-	-	-	-
SAN. . . . .	63,200	7,348	-	-	-	-
UNCLASSIFIED						
OTHER. . . . .	10,600	460	2,300	241	16,400	4,063
26,600	1,424	-	-	-	-	-
FLYING FISH. . . . .	-	-	85,900	10,814	-	-
GROUPERS. . . . .	-	-	124,200	27,445	39,800	9,584
HAKE. . . . .	37,200	586	-	-	-	-
HALFMON. . . . .	-	-	9,800	1,878	200	25
KING CROAKER. . . . .	900	35	723,700	31,460	3,300	309
LINGCOD. . . . .	46,400	3,892	1,200	115	300	29
MACKEREL:						
JACK. . . . .	12,176,800	238,922	74,927,400	1,804,131	-	-
PACIFIC. . . . .	646,400	17,691	25,973,500	648,477	3,400	203
OPALEYE. . . . .	-	-	2,000	334	-	-
PERC. . . . .	26,000	6,079	24,500	3,050	1,700	269
POPMOND. . . . .	2,900	528	61,500	13,505	400	95
ROCKFISHES. . . . .	1,584,300	90,845	479,400	60,918	243,900	29,526
SABLEFISH. . . . .	68,200	3,513	900	95	600	47
SALMON:						
CHINOOK OR KING. . . . .	122,600	72,544	-	-	-	-
SILVER OR COHO. . . . .	49,400	17,290	-	-	-	-
TOTAL SALMON. . . . .	172,000	89,834	-	-	-	-
SARDINE, PACIFIC. . . . .	840,000	24,615	11,686,700	431,583	196,200	23,097
SCULPIN. . . . .	-	-	16,100	5,401	76,100	21,213
SEA BASS. . . . .						
BLACK. . . . .	1,000	129	145,400	23,399	76,400	12,376
WHITE. . . . .	65,600	16,893	1,081,500	244,758	208,300	40,563
SHARKS, UNCLASSIFIED. . . . .	125,500	12,831	219,400	26,148	122,400	12,966
SHEEPSHEAD. . . . .	1,000	67	5,100	378	11,600	957
SKATES. . . . .	5,900	250	700	69	-	-
SKELT. . . . .	-	-	59,100	2,557	-	-
SWORDFISH. . . . .	15,200	7,641	145,100	82,767	21,800	11,852
TUNA:						
ALBACORE. . . . .	3,891,800	538,029	20,189,800	3,261,568	10,109,700	1,630,008
BLUETFIN. . . . .	-	-	20,472,400	2,490,314	2,669,800	336,279
SKIPJACK. . . . .	-	-	52,209,500	5,187,783	12,652,300	1,309,462
YELLOWFIN. . . . .	-	-	119,794,200	15,956,644	27,714,200	3,650,804
TOTAL TUNA. . . . .	3,891,800	538,029	212,665,900	26,895,309	53,185,000	6,936,553
TURBOT. . . . .	26,300	1,473	-	-	-	-
MAHOO. . . . .	100	7	71,700	6,253	4,200	849
YELLOWTAIL. . . . .	-	-	-	-	36,300	3,434
UNCLASSIFIED:						
FOR FOOD. . . . .	100	6	146,500	3,164	1,300	146
BAIT AND ANIMAL FOOD. . . . .	796,600	15,945	-	-	-	-
TOTAL FISH. . . . .	22,524,300	1,273,454	333,684,900	30,560,566	54,725,700	7,163,916

SEE FOOTNOTES AT END OF TABLE.

{CONTINUED ON NEXT PAGE}

# PACIFIC COAST FISHERIES

## CALIFORNIA - CATCH BY DISTRICTS, 1964 - Continued

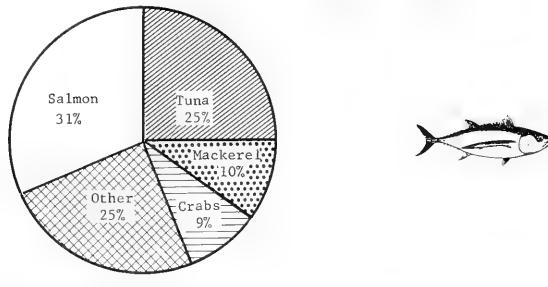
SPECIES	SANTA BARBARA		SAN PEDRO		SAN DIEGO	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SHELLFISH						
CRABS; DUNGENESS . . . . .	2,100 116,900	\$938 7,259	-	-	-	-
ROCK . . . . .			130,200	\$16,157	6,800	\$322
TOTAL CRABS . . . . .	119,000	8,197	130,200	16,157	6,800	322
LOBSTER, SPINY . . . . .	103,800	66,321	163,800	116,251	179,100	126,306
ABALONE 1/ . . . . .	535,100 2,000	405,518 115	224,800	137,297	48,100	22,669
OCTOPUS. . . . .			-	-	-	-
OYSTERS, MARKET, PACIFIC 2/ .	243,500	43,826	-	-	-	-
SQUID. . . . .	470,000	4,516	6,858,100	84,957	3,900	97
TOTAL SHELLFISH . . . . .	1,473,400	526,493	7,376,900	354,662	237,900	149,394
GRAND TOTAL . . . . .	23,997,700	1,801,947	341,261,800	30,915,228	54,963,600	7,333,310

1/ BASED ON YIELDS OF 20 PERCENT MEATS.

2/ BASED ON YIELDS OF 24 PERCENT MEATS.

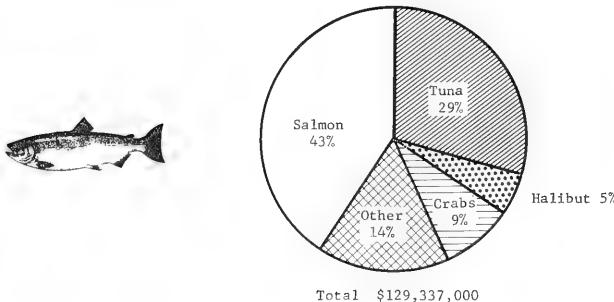
3/ BASED ON YIELDS OF 14 PERCENT MEATS.

## PACIFIC COAST CATCH, 1964



1,151,612,000 pounds

## VALUE OF PACIFIC COAST CATCH, 1964



# PACIFIC COAST FISHERIES

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## CALIFORNIA CATCH BY WATERS, 1964

SPECIES	OFF UNITED STATES		OFF LATIN AMERICA	
	POUNDS	VALUE	POUNDS	VALUE
ANCHovies . . . . .	4,975,100	\$2,061	-	-
BARRACUDA . . . . .	251,100	41,291	63,100	\$13,670
BONITO . . . . .	2,605,500	65,523	5,900	172
BOTTLE-ZONE . . . . .	5,200	274	-	-
CARRILLA . . . . .	-	-	-	-
CARP . . . . .	194,500	11,466	13,600	2,190
FLOUNDERS . . . . .	-	-	-	-
ARROWTOOTH HALIBUT . . . . .	9,800	419	-	-
CALIFORNIA HALIBUT . . . . .	1,092,100	247,161	184,000	41,621
SAND DABS . . . . .	589,000	44,089	500	37
"SOLE":				
DOVER . . . . .	9,265,200	560,490	-	-
ENGLISH . . . . .	4,592,700	354,105	-	-
PETRALE . . . . .	2,697,700	322,641	-	-
RED . . . . .	1,410,700	95,396	-	-
SANDEA . . . . .	320,700	36,755	-	-
UNCLASSIFIED . . . . .	47,300	6,403	100	14
OTHER . . . . .	421,000	22,367	-	-
FLYING FISH . . . . .	85,900	10,814	-	-
GROUPERS . . . . .	-	-	164,000	37,029
HAKE . . . . .	111,500	1,805	-	-
HALFMON . . . . .	10,000	1,903	-	-
HALIBUT . . . . .	3,000	917	-	-
HARDHEAD . . . . .	156,800	41,515	-	-
HERRING, SEA . . . . .	349,300	32,412	-	-
KING MACKEREL . . . . .	638,500	39,171	100	5
LINGCOD . . . . .	635,600	64,425	700	56
MACKERELS:				
JACK . . . . .	89,673,000	2,108,799	20,000	470
PACIFIC . . . . .	26,827,200	665,418	700	17
OPALEYE . . . . .	2,000	334	-	-
PERCH . . . . .	131,400	20,058	1,800	270
POMPANO . . . . .	121,300	33,235	-	-
ROCKFISHES . . . . .	8,043,900	455,640	74,100	4,476
SABLEFISH . . . . .	2,463,400	162,703	-	-
SAFALM: . . . . .				
CHINOOK OR KING . . . . .	7,562,500	4,331,619	-	-
SPOTTER OR COHO . . . . .	1,916,700	660,987	-	-
SARDINE, PACIFIC . . . . .	13,137,500	500,142	-	-
SCULPIN . . . . .	77,000	21,923	16,600	4,691
SEA BASS . . . . .				
BLACK . . . . .	14,100	2,273	208,700	33,633
WHITE . . . . .	550,800	122,498	640,300	166,653
SHARKS, UNCLASSIFIED . . . . .	606,300	58,697	40,200	3,891
SHEEPSHEAD . . . . .	13,400	1,057	4,500	355
SKATES . . . . .	222,700	2,692	-	-
SMELT . . . . .	414,100	26,427	-	-
SWORDFISH . . . . .	177,300	99,539	5,700	3,201
TUNAS:				
ALbacore . . . . .	33,867,700	5,237,290	8,663,200	1,342,423
BLUefin . . . . .	4,655,300	587,947	18,515,900	2,258,646
SKIPJACK . . . . .	3,900	390	66,055,000	6,623,964
YELLOWFIN . . . . .	100	13	149,020,000	19,649,523
TURBOT . . . . .	93,400	4,887	-	-
WAHOO . . . . .	-	-	4,200	849
WHITEBAIT . . . . .	191,300	14,598	-	-
YELLOWTAIL . . . . .	25,900	2,751	84,200	6,943
UNCLASSIFIED:				
FOR FOOD . . . . .	147,500	3,390	900	21
FOR HUMAN AND ANIMAL FOOD . . . . .	1,738,400	34,780	-	-
CRABS:				
Dungeness . . . . .	1,815,300	617,677	-	-
Rock . . . . .	263,900	24,724	-	-
LOBSTER, SPINY . . . . .	440,700	308,878	-	-
SHRIMP, OCEAN . . . . .	1,105,000	114,267	-	-
ABALONE . . . . .	815,800	572,811	-	-
CLAMS, HARD . . . . .	1,000	635	-	-
OCTOPUS . . . . .	38,700	2,160	-	-
OYSTERS, MARKET:				
EASTERN . . . . .	4,900	10,277	-	-
PACIFIC . . . . .	1,354,700	243,850	-	-
SQUID . . . . .	16,433,600	332,520	-	-
MOLLUSKS, UNCLASSIFIED . . . . .	500	114	-	-
WHALE PRODUCTS:				
MEAL . . . . .	3,323,600	155,173	-	-
MEAT . . . . .	4,514,400	362,003	-	-
OIL:				
SPERM . . . . .	396,500	25,224	-	-
WHALE . . . . .	2,758,500	169,971	-	-
TOTAL . . . . .	256,839,800	20,241,955	244,028,000	30,417,020

# PACIFIC COAST FISHERIES

## NORTHERN DISTRICT OF CALIFORNIA - OPERATING UNITS, 1964

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS		POTS, CRAB
		FISH	SHRIMP	
FISHERMEN: ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	NUMBER
ON BOATS AND SHORE . . . . .	-	129	26	270
TOTAL . . . . .	4	4	-	54
VESSELS, MOTOR . . . . .	-	133	26	324
GROSS TONNAGE . . . . .	34	-	7	116
BOATS, MOTOR . . . . .	1,657	293	-	2,068
GEAR: NUMBER . . . . .	2	2	-	34
LENGTH, YARDS . . . . .	2	36	7	14,105
YARDS AT MOUTH . . . . .	400	-	-	-
	958	103	-	-
LINES				
ITEM	HAND	TROLL		
		SALMON	ALbacore	OTHER
FISHERMEN: ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	NUMBER
ON BOATS AND SHORE . . . . .	2	1,146	730	30
TOTAL . . . . .	2	938	40	19
VESSELS, MOTOR . . . . .	4	2,084	770	49
GROSS TONNAGE . . . . .	1	517	309	13
BOATS, MOTOR . . . . .	22	8,955	7,405	193
GEAR: NUMBER . . . . .	1	526	23	11
HOOKS . . . . .	4	6,318	2,968	216
	8	25,272	2,968	216
LINES - CONTINUED				
ITEM	LONG OR SET WITH HOOKS	DREDGES, OYSTER		TONGS, OYSTER
		COMMON	SUCTION	
FISHERMEN: ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	NUMBER
ON BOATS AND SHORE . . . . .	5	-	-	-
TOTAL . . . . .	2	4	3	14
VESSELS, MOTOR . . . . .	7	4	3	14
GROSS TONNAGE . . . . .	2	-	-	-
BOATS, MOTOR . . . . .	55	-	-	-
GEAR: NUMBER . . . . .	1	2	1	14
YARDS AT MOUTH . . . . .	28	2	1	14
HOOKS . . . . .	2,800	2	-	-
ITEM				
	SHOVELS, CLAM	BY HAND, OYSTERS		TOTAL, EXCLUSIVE OF DUPLI- CATION
FISHERMEN: ON VESSELS . . . . .	NUMBER	NUMBER		NUMBER
ON BOATS AND SHORE . . . . .	-	-		1,576
TOTAL . . . . .	4	14		980
VESSELS, MOTOR . . . . .	4	14		2,556
GROSS TONNAGE . . . . .	-	-		672
BOATS, MOTOR . . . . .	-	-		14,226
GEAR, NUMBER . . . . .	2	14		566
	4	-		-

# PACIFIC COAST FISHERIES

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## NORTHERN DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1954

SPECIES	HAUL SEINES		OTTER TRAWLS		POTS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS:						
ARROWTOOTH HALIBUT . . . . .	-	-	9,100	\$391	-	-
CALIFORNIA HALIBUT . . . . .	-	-	400	.95	-	-
SAND DABS . . . . .	-	-	145,600	11,649	-	-
"SOLE":						
DOVER . . . . .	-	-	6,252,200	390,708	-	-
ENGLISH . . . . .	-	-	1,762,400	140,232	-	-
PETRALE . . . . .	-	-	1,090,600	124,634	-	-
REX . . . . .	-	-	642,700	46,395	-	-
SAND. . . . .	-	-	16,000	1,745	-	-
UNCLASSIFIED . . . . .	-	-	300	.18	-	-
OTHER . . . . .	-	-	91,500	4,675	-	-
HERRING, SEA . . . . .	300	\$15				
LINGCOD . . . . .	-	-	391,600	28,057	-	-
MACKEREL, JACK . . . . .	-	-	900	.25	-	-
PERCH . . . . .	44,200	5,110	400	.44	-	-
ROCKFISHES . . . . .	-	-	1,632,300	91,390	-	-
SABLEFISH . . . . .	-	-	498,500	45,370	-	-
SALMON, CHINOOK OR KING . . . . .	-	-	2,400	1,200	-	-
SHARKS, UNCLASSIFIED . . . . .	-	-	1,100	.71	-	-
SKATES . . . . .	-	-	2,500	.22	-	-
SWORDFISH . . . . .	230,000	12,641	-	-	-	-
WURBOT . . . . .	-	-	6,000	.339	-	-
WHITEBAIT . . . . .	160,400	13,432	-	-	-	-
UNCLASSIFIED, BAIT AND ANIMAL FOOD . . . . .	-	-	852,000	17,040	-	-
CRABS:						
DUNGENESS . . . . .	-	-	-	-	984,400	\$297,849
ROCK. . . . .	-	-	-	-	9,300	930
SHRIMP, OCEAN . . . . .	-	-	1,065,200	106,516	-	-
OCTOPUS . . . . .	-	-	4,800	200	-	-
TOTAL. . . . .	454,900	31,198	14,691,500	1,011,228	993,700	298,779

SPECIES	LINES		DREDGES	
	POUNDS	VALUE	POUNDS	VALUE
FLOUNDERS, "SOLE", PETRALE.	100	\$12	-	-
HALIBUT . . . . .	3,000	917	-	-
LINGCOD . . . . .	66,100	5,286	-	-
ROCKFISHES . . . . .	52,900	2,643	-	-
SABLEFISH . . . . .	638,200	63,620	-	-
SALMON . . . . .				
CHINOOK OR KING . . . . .	4,022,700	2,170,106	-	-
SILVER OR COHO . . . . .	1,398,200	469,370	-	-
SKATES . . . . .			28,400	\$100
TUNA, ALBACORE . . . . .	4,750,400	653,095	-	-
OYSTERS, PACIFIC . . . . .			868,000	156,242
TOTAL. . . . .	10,931,600	3,365,251	896,400	156,342

SPECIES	TONS AND BY HAND		SHOVELS	
	POUNDS	VALUE	POUNDS	VALUE
CLAMS, HARD			1,000	\$635
OYSTERS, PACIFIC . . . . .	26,500	\$4,770	-	-
TOTAL. . . . .	26,500	4,770	1,000	635

# PACIFIC COAST FISHERIES

## SAN FRANCISCO DISTRICT OF CALIFORNIA OPERATING UNITS, 1964

ITEM	HAUL SEINES, COMMON	PURSE SEINES AND LAMPARA NETS			OTTER TRAWLS	
		ANCHOVY	TUNA	OTHER	FISH	SHRIMP
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS, . . . . .	6	3	24	-	92	11
ON BOATS AND SHORE, . . . . .	2	3	-	3	-	-
TOTAL, . . . . .	8	6	24	3	92	11
VESSELS, MOTOR, . . . . .	2	1	2	-	25	3
GROSS TONNAGE, . . . . .	22	13	736	-	1,151	54
BOATS, MOTOR, . . . . .	1	1	4	1	-	-
GEAR:						
NUMBER, . . . . .	3	2	2	1	25	3
LENGTH, YARDS, . . . . .	700	450	1,600	250	-	-
YARDS AT MOUTH, . . . . .	-	-	-	-	675	44
POTS AND TRAPS		GILL NETS, DRIFT		LINES		
ITEM	CRAB	FISH	TRAMMEL NETS	HAND		
				ROCKFISH		
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS, . . . . .	195	-	-	10	-	12
ON BOATS AND SHORE, . . . . .	98	2	2	-	2	12
TOTAL, . . . . .	294	2	2	10	2	24
VESSELS, MOTOR, . . . . .	90	-	-	4	-	5
GROSS TONNAGE, . . . . .	1,344	-	-	53	-	97
BOATS, MOTOR, . . . . .	61	1	1	1	1	6
GEAR:						
NUMBER, . . . . .	13,345	50	1	4	2	24
SQUARE YARDS, . . . . .	-	-	2,500	21,000	-	-
HOOKS . . . . .	-	-	-	-	4	48
LINES - CONTINUED						DIP, BRAIL OR SCOOP NETS
ITEM	TROLL			LONG OR SET WITH HOOKS		
	SALMON	ALBACORE	OTHER			
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
ON VESSELS, . . . . .	921	321	19	-	-	
ON BOATS AND SHORE, . . . . .	662	4	4	4	4	
TOTAL, . . . . .	1,583	325	23	4	4	
VESSELS, MOTOR, . . . . .	413	132	9	-	-	
GROSS TONNAGE, . . . . .	7,182	3,459	126	-	-	
BOATS, MOTOR, . . . . .	379	2	2	2	2	
GEAR:						
NUMBER, . . . . .	4,752	1,206	99	16	4	
HOOKS . . . . .	19,006	1,206	99	1,600	-	
ITEM	HARPOONS, WHALE	DREDGES, OYSTER, COMMON	TONCS, OYSTER	DIVING OUTFITS, ABALONE	TOTAL, EXCLUSIVE OF DUPLI- CATION	
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
ON VESSELS, . . . . .	24	-	10	12	1,270 715	
ON BOATS AND SHORE, . . . . .	-	4	-	-		
TOTAL, . . . . .	24	4	10	12	1,985	
VESSELS, MOTOR, . . . . .	5	-	-	-	527	
GROSS TONNAGE, . . . . .	972	-	-	-	12,327 415	
BOATS, MOTOR, . . . . .	-	2	10	6		
GEAR:						
NUMBER, . . . . .	5	2	10	6		
YARDS AT MOUTH, . . . . .	-	2	-	-		

# PACIFIC COAST FISHERIES

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## SAN FRANCISCO DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		PURSE SEINES AND LAMPARA NETS		OTTER TRAWLS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES . . . . .	-	-	30,100	\$2,535	-	-
CARP . . . . .	155,300	\$9,114	-	-	-	-
FLOUNDERS; . . . . .						
ARROWTOOTH HALIBUT . . . . .	-	-	-	-	700	\$28
CALIFORNIA HALIBUT . . . . .	-	-	-	-	158,700	37,438
SAND DABS . . . . .	-	-	-	-	308,800	20,244
"SOLE"; . . . . .						
DOVER . . . . .	-	-	-	-	2,737,000	154,077
ENGLISH . . . . .	-	-	-	-	1,992,400	154,435
PETRALE . . . . .	-	-	-	-	946,100	116,010
REX . . . . .	-	-	-	-	459,600	31,213
SAND . . . . .	-	-	-	-	255,900	29,515
UNCLASSIFIED . . . . .	-	-	-	-	1,600	87
OTHER . . . . .	-	-	-	-	231,700	12,933
HAKE . . . . .	-	-	-	-	17,500	295
HARDHEAD . . . . .	153,100	40,405	-	-	-	-
HERRING, SEA . . . . .	14,400	1,292	15,600	1,248	-	-
KING CROAKER . . . . .	-	-	6,300	567	11,900	916
LINGCOD . . . . .	-	-	-	-	238,000	18,440
MACKEREL, JACK . . . . .	-	-	-	-	1,600	70
PERCH . . . . .	17,200	3,300	-	-	400	79
ROCKFISHES . . . . .	-	-	-	-	1,704,400	92,466
SAILFISH . . . . .	-	-	-	-	826,300	31,866
SHARKS, UNCLASSIFIED . . . . .	-	-	-	-	69,300	3,550
SKATE . . . . .	-	-	-	-	104,500	1,200
SMELT . . . . .	29,000	3,595	58,000	7,200	-	-
TUNA; . . . . .						
SKIPJACK . . . . .	-	-	1,167,000	127,101	-	-
YELLOWFIN . . . . .	-	-	1,511,700	232,068	-	-
TURBOT . . . . .	-	-	-	-	57,900	3,048
WHITEBAIT . . . . .	3,000	327	6,000	630	-	-
UNCLASSIFIED: . . . . .						
FOR FOOD . . . . .	300	83	-	-	42,900	858
BAIT AND ANIMAL FOOD . . . . .	-	-	-	-	14,000	4,900
CRABS, DUNGENESS . . . . .	-	-	-	-	35,000	3,701
SHRIMP, OCEAN . . . . .	-	-	-	-	25,000	1,161
OCOTOPUS . . . . .	-	-	-	-	-	-
TOTAL . . . . .	372,300	56,116	2,814,700	371,369	10,243,400	720,530

SPECIES	POTS AND TRAPS		GILL AND TRAMMEL NETS		LINES	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CARP . . . . .	39,200	\$2,352	-	-	-	-
FLOUNDERS; . . . . .						
CALIFORNIA HALIBUT . . . . .	-	-	21,500	\$5,160	3,500	\$875
"SOLE"; . . . . .						
ENGLISH . . . . .	-	-	-	-	300	24
SAND . . . . .	-	-	-	-	400	50
UNCLASSIFIED . . . . .	-	-	-	-	800	48
OTHER . . . . .	-	-	1,100	66	1,000	60
HARDHEAD . . . . .	3,700	1,110	-	-	-	-
KING CROAKER . . . . .	-	-	5,000	500	-	-
LINGCOD . . . . .	-	-	-	-	35,600	3,204
MACKEREL, JACK . . . . .	-	-	-	-	100	5
ROCKFISHES . . . . .	-	-	-	-	45,900	2,754
SALMON; . . . . .						
CHINOOK OR KING . . . . .	-	-	-	-	3,105,800	1,696,029
SILVER OR COHO . . . . .	-	-	-	-	401,700	148,629
SEA BASS, WHITE . . . . .	-	-	9,400	2,272	-	-
SHARKS, UNCLASSIFIED . . . . .	-	-	67,000	3,550	-	-
TUNA, ALbacore . . . . .	-	-	-	-	1,336,800	184,280
TURBOT . . . . .	-	-	-	-	100	6
CRABS; . . . . .						
DUNGENESS . . . . .	807,000	310,670	-	-	-	-
ROCK . . . . .	100	9	200	20	-	-
OCTOPUS . . . . .	-	-	-	-	-	-
TOTAL . . . . .	850,000	314,141	104,200	11,568	4,932,000	2,237,964

(CONTINUED ON NEXT PAGE)

# PACIFIC COAST FISHERIES

## SAN FRANCISCO DISTRICT OF CALIFORNIA CATCH BY GEAR, 1964 - Continued

SPECIES	DIP, BRAIL OR SCOOP NETS		HARPOONS		DREDGES	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
HERRING, SEA . . . . .	700	\$63	-	-	2,900	\$26
SKATES . . . . .	-	-	-	-	-	-
SMELT . . . . .	1,200	156	-	-	-	-
WHITEBAIT . . . . .	1,900	209	-	-	-	-
OYSTERS, PACIFIC . . . . .	-	-	-	-	41,300	7,434
WHALE PRODUCTS:						
MEAL . . . . .	-	-	3,323,800	\$155,173	-	-
MEAT . . . . .	-	-	4,514,400	382,003	-	-
OIL:						
SPERM . . . . .	-	-	396,500	25,224	-	-
WHALE . . . . .	-	-	2,758,500	169,971	-	-
TOTAL . . . . .	3,800	428	10,993,200	732,371	44,200	7,460

SPECIES	TONGS		DIVING OUTFITS	
	POUNDS	VALUE	POUNDS	VALUE
ABALONE . . . . .	-	-	7,700	\$7,236
OYSTERS:				
EASTERN . . . . .	4,900	\$10,277	-	-
PACIFIC . . . . .	167,000	30,058	-	-
TOTAL . . . . .	171,900	40,335	7,700	7,236



TUNA SEINER

# PACIFIC COAST FISHERIES

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## MONTEREY DISTRICT OF CALIFORNIA - OPERATING UNITS, 1964

ITEM	PURSE SEINES AND LAMPARA NETS				OTTER TRAWLERS, FISH	
	ANCHOVY	MACKEREL AND SARDINE	SQUID	OTHER		
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
ON VESSELS . . . . .	22	64	56	10	30	
ON BOATS AND SHORE . . . . .	5	3	18	6	4	
TOTAL . . . . .	28	67	75	16	34	
VESSELS, MOTOR . . . . .	5	12	12	2	7	
GROSS TONNAGE . . . . .	76	313	233	46	255	
BOATS, MOTOR . . . . .	2	2	6	2	2	
GEAR:						
NUMBER . . . . .	7	13	18	4	9	
LENGTH, YARDS . . . . .	2,250	4,750	5,450	1,150	-	
YARDS AT MOUTH . . . . .	-	-	-	-	229	
POTS AND TRAPS						
ITEM	GILL NETS, DRIFT				LINES	
	CRAB	OCTOPUS	SEA BASS	OTHER		
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
ON VESSELS . . . . .	9	5	-	3	5	
ON BOATS AND SHORE . . . . .	6	4	10	4	8	
TOTAL . . . . .	15	9	10	7	13	
VESSELS, MOTOR . . . . .	4	2	-	1	2	
GROSS TONNAGE . . . . .	63	25	-	14	26	
BOATS, MOTOR . . . . .	4	3	5	2	4	
GEAR:						
NUMBER . . . . .	680	60	5	3	6	
SQUARE YARDS . . . . .	-	-	12,500	8,200	32,500	
Hooks . . . . .	-	-	-	-	-	
LINES - CONTINUED						
ITEM	HAND - CONTINUED		TROLL			LONG OR SET WITH HOOKS
	ROCKFISH	OTHER	SALMON	ALBACORE	OTHER	
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS . . . . .	15	6	294	390	25	3
ON BOATS AND SHORE . . . . .	30	64	270	38	28	6
TOTAL . . . . .	45	70	564	428	53	9
VESSELS, MOTOR . . . . .	6	2	129	164	10	1
GROSS TONNAGE . . . . .	66	43	2,505	3,957	218	30
BOATS, MOTOR . . . . .	15	32	154	22	16	3
GEAR:						
NUMBER . . . . .	45	70	1,698	1,674	234	34
Hooks . . . . .	90	140	6,792	1,674	234	3,400
ITEM	DIP, BRAIL OR SCOOP NETS	TONGS, OYSTER	SHOVELS, CLAM	DIVING OUTFITS, ABALONE	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLI- CATION
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS . . . . .	5	-	2	4	-	672
ON BOATS AND SHORE . . . . .	-	3	-	-	3	403
TOTAL . . . . .	5	3	2	4	3	1,075
VESSELS, MOTOR . . . . .	1	-	-	-	-	262
GROSS TONNAGE . . . . .	12	-	-	-	-	5,935
BOATS, MOTOR . . . . .	-	3	1	2	3	225
GEAR, NUMBER . . . . .	4	3	2	2	-	-

# PACIFIC COAST FISHERIES

## MONTEREY DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES AND LAMPARA NETS		OTTER TRAWLS		POTS AND TRAPS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES . . . . .	2,833,200	\$44,315	-	-	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT . . . . .	-	-	2,700	\$621	-	-
SAND DABS . . . . .	-	-	90,300	5,416	-	-
"SOLE":						
DOVER. . . . .	-	-	67,100	3,355	-	-
ENGLISH. . . . .	-	-	389,800	30,733	-	-
PETRALE. . . . .	-	-	200,100	26,120	-	-
REX. . . . .	-	-	183,300	9,172	-	-
SAND. . . . .	-	-	700	.65	-	-
OTHER. . . . .	-	-	19,700	1,763	-	-
HAKE. . . . .	-	-	52,900	.844	-	-
HERRING, SEA . . . . .	213,300	19,294	-	-	-	-
KING CROAKER . . . . .	46,800	2,901	700	.42	-	-
LINGCOD. . . . .	-	-	19,700	1,707	-	-
MACKEREL:						
JACK . . . . .	2,580,000	65,951	300	.9	-	-
PACIFIC. . . . .	2,500	.60	-	-	-	-
PERCH. . . . .	3,000	.436	300	.36	-	-
POMPANO. . . . .	50,000	16,527	-	-	-	-
ROCKFISHES . . . . .	-	-	1,863,500	100,890	-	-
SABLEFISH. . . . .	-	-	205,300	7,722	-	-
SARDINE, PACIFIC . . . . .	414,600	20,847	-	-	-	-
SHARKS, UNCLASSIFIED . . . . .	-	-	9,400	.292	-	-
SKATE. . . . .	-	-	67,900	.997	-	-
SMELT. . . . .	24,000	1,382	-	-	-	-
TURBOT. . . . .	-	-	1,100	.21	-	-
UNCLASSIFIED, BAIT AND ANIMAL FOOD. . . . .	-	-	46,900	.937	-	-
CRABS:						
DUNGENESS. . . . .	-	-	100	.40	7,700	\$3,280
ROCK. . . . .	-	-	-	-	600	.47
SHRIMP, OCEAN. . . . .	-	-	-	-	5,800	4,050
OCTOPUS. . . . .	-	-	200	.14	6,500	.650
SIQUID. . . . .	'9,094,000	242,722	-	-	-	-
<b>TOTAL . . . . .</b>	<b>15,261,400</b>	<b>414,435</b>	<b>3,222,000</b>	<b>190,806</b>	<b>20,600</b>	<b>8,027</b>

SPECIES	GILL AND TRAMMEL NETS		LINES		DIP, BRAIL OR SCOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BONITO . . . . .	-	-	1,300	\$.56	-	-
CABEZZONE . . . . .	-	-	1,900	.70	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT . . . . .	32,000	\$7,668	6,200	2,050	-	-
SAND DABS . . . . .	-	-	21,900	1,533	-	-
"SOLE":						
PETRALE. . . . .	-	-	700	.105	-	-
SAND. . . . .	-	-	100	.13	-	-
UNCLASSIFIED . . . . .	10,400	1,002	5,000	.500	-	-
OTHER. . . . .	25,000	2,250	24,400	2,196	-	-
HAKE. . . . .	-	-	3,900	.80	-	-
HERRING, SEA . . . . .	80,000	8,000	-	-	25,000	\$2,500
KING CROAKER . . . . .	40,000	2,446	-	-	-	-
LINGCOD. . . . .	-	-	37,400	3,740	-	-
MACKEREL:						
JACK . . . . .	-	-	-	-	3,900	.156
PACIFIC. . . . .	-	-	100	.4	-	-
PERCH. . . . .	10,000	1,400	-	-	3,500	.525
POMPANO. . . . .	-	-	6,200	2,480	-	-
ROCKFISHES . . . . .	-	-	311,400	18,684	-	-
SABLEFISH. . . . .	-	-	205,400	10,270	-	-
SALMON:						
CHINOOK OR KING. . . . .	-	-	309,000	189,740	-	-
SILVER OR COHO. . . . .	-	-	69,400	25,678	-	-
SEA BASS, WHITE . . . . .	20,000	3,605	6,300	1,260	-	-
SHARKS, UNCLASSIFIED . . . . .	32,400	1,190	-	-	-	-
SKATE. . . . .	8,000	160	1,900	.38	-	-
SMELT. . . . .	-	-	-	-	12,800	.896
SWORDFISH. . . . .	-	-	900	.480	-	-
TUNA:						
ALbacore. . . . .	-	-	2,272,400	312,733	-	-
SKIPJACK. . . . .	-	-	100	.8	-	-
UNCLASSIFIED, FOR FOOD . . . . .	200	12	-	-	-	-
SIQUID. . . . .	-	-	-	-	7,600	.226
<b>TOTAL . . . . .</b>	<b>256,000</b>	<b>27,753</b>	<b>3,287,900</b>	<b>571,716</b>	<b>52,800</b>	<b>4,305</b>

SPECIES	TONS AND BY HAND		SHOVELS		DIVING OUTFITS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ABALONE. . . . .	-	-	500	\$114	100	\$.69
MOLLUSKS, UNCLASSIFIED . . . . .	-	-	-	-	-	-
OYSTERS, PACIFIC . . . . .	8,400	\$1,520	500	114	100	.89
<b>TOTAL . . . . .</b>	<b>8,400</b>	<b>1,520</b>	<b>500</b>	<b>114</b>	<b>100</b>	<b>.89</b>

# PACIFIC COAST FISHERIES

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## SANTA BARBARA DISTRICT OF CALIFORNIA - OPERATING UNITS, 1964

ITEM	PURSE SEINES AND LAMPARA NETS			OTTER TRAWLS, FISH	POTS AND TRAPS	
	ANCHOVY	MACKEREL AND SARDINE	OTHER		CRAB	LOBSTER, SPINY
FISHERMEN: ON VESSELS . . . . . ON BOATS AND SHORE . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
TOTAL . . . . .	3	217 3	- 3	62 2	- 2	16 72
VESSELS, MOTOR . . . . . GROSS TONNAGE . . . . . BOATS, MOTOR . . . . . GEAR . . . . .	1 11 -	23 2,224 22	- 1	16 640 1	- 1	7 110 36
NUMBER . . . . . LENGTH, YARDS . . . . . YARDS AT MOUTH . . . . .	1 300	24 12,850	1 250	17 -	70 452	2,875 -
ITEM	GILL NETS, DRIFT			TRAMMEL NETS	LINES	
	BARRACUDA	SEA BASS	OTHER		HAND	
FISHERMEN: ON VESSELS . . . . . ON BOATS AND SHORE . . . . .	NUMBER	NUMBER	NUMBER		ALBACORE	ROCKFISH
TOTAL . . . . .	12 2	8 12	2 6	9 8	210 14	23 44
VESSELS, MOTOR . . . . . GROSS TONNAGE . . . . . BOATS, MOTOR . . . . . GEAR: NUMBER . . . . . SQUARE YARDS . . . . . HOOKS . . . . .	4 67 1 5 16,600 -	3 40 6 9 25,200	1 14 4 5 13,500 -	3 56 4 7 38,500	72 1,703 8	8 215 22 67 - 223
LINES - CONTINUED						DIP, BRAIL OR SCOOP NETS
ITEM	HAND - CONTINUED	TROLL			LONG OR SET WITH HOOKS	NUMBER
	OTHER	SALMON	ALBACORE	OTHER		
FISHERMEN: ON VESSELS . . . . . ON BOATS AND SHORE . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
TOTAL . . . . .	24 36	134 130	371 53	11 8	4 16	- 6
VESSELS, MOTOR . . . . . GROSS TONNAGE . . . . . BOATS, MOTOR . . . . . GEAR: NUMBER . . . . . HOOKS . . . . .	9 153 18	56 1,218 75	150 3,239 30	4 77 4	2 24 8	2 41 -
HARPOONS, SWORDFISH						TOTAL, EXCLUSIVE OF DUPLICATION
ITEM	HARPOONS, SWORDFISH	TONGS, OYSTER	DIVING OUTFITS, ABALONE	BY HAND, OYSTER	NUMBER	NUMBER
	NUMBER	NUMBER	NUMBER	NUMBER		
FISHERMEN: ON VESSELS . . . . . ON BOATS AND SHORE . . . . .	5 -	- 12	16 192	- 10	921 502	
TOTAL . . . . .	5	12	208	10	1,423	
VESSELS, MOTOR . . . . . GROSS TONNAGE . . . . . BOATS, MOTOR . . . . . GEAR, NUMBER . . . . .	2 31 -	- 12 12	6 63 96 106	- 10	289 8,157 291 -	

# PACIFIC COAST FISHERIES

## SANTA BARBARA DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES AND LAMPARA NETS		OTTER TRAWLS		POTS AND TRAPS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES . . . . .	1,100	\$65	-	-	-	-
BONITO . . . . .	12,000	262	-	-	-	-
CABEZON . . . . .	-	-	100	\$5	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT . . . . .	-	-	237,000	47,400	-	-
SAND DABS . . . . .	-	-	200	11	-	-
"SOLE":						
DOVER . . . . .	-	-	206,900	12,350	-	-
ENGLISH . . . . .	-	-	427,400	26,653	-	-
PETRALE . . . . .	-	-	456,500	53,242	-	-
REX . . . . .	-	-	124,900	6,615	-	-
SAND . . . . .	-	-	63,100	7,336	-	-
OTHER . . . . .	-	-	25,400	1,352	-	-
HAKE . . . . .	-	-	37,200	586	-	-
LINGCOD . . . . .	-	-	21,500	1,651	-	-
MACKEREL:						
JACK . . . . .	12,176,800	236,922	-	-	-	-
PACIFIC . . . . .	845,400	17,691	-	-	-	-
PERCH . . . . .	-	-	3,100	620	-	-
POMPANO . . . . .	2,500	528				
ROCKFISHES . . . . .			1,390,000	79,187	-	-
SABLEFISH . . . . .	-	-	87,000	3,453	-	-
SALMON, CHINOOK OR KING . . . . .	-	-	1,000	500	-	-
SARDINE, PACIFIC . . . . .	840,000	24,615	-	-	-	-
SEA BASS, WHITE . . . . .	-	-	200	50	-	-
SHARKS, UNCLASSIFIED . . . . .	-	-	4,000	400	-	-
SKATE . . . . .	-	-	4,900	230	-	-
TURBOT . . . . .	-	-	29,300	1,473	-	-
UNCLASSIFIED, BAIT AND ANIMAL FOOD . . . . .	-	-	796,600	15,945	-	-
CRABS:						
DUNGENESS . . . . .	-	-	300	120	1,800	\$818
ROCK . . . . .	-	-	-	-	116,900	7,259
LOBSTER, SPINY . . . . .	-	-	-	-	103,800	66,321
OCTOPUS . . . . .	-	-	2,000	115	-	-
SQUID . . . . .	460,000	4,416	200	2	-	-
TOTAL . . . . .	14,342,800	286,499	3,919,800	263,296	222,500	74,398

SPECIES	GILL AND TRAMMEL NETS		LINES		DIP, BRAIL OR SCOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BARRACUDA . . . . .	56,000	\$8,400	3,000	\$514	-	-
CABEZON . . . . .	-	-	3,100	188	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT . . . . .	130,000	33,489	4,200	966	-	-
SAND DABS . . . . .	-	-	300	21	-	-
"SOLE":						
ENGLISH . . . . .	-	-	400	28	-	-
PETRALE . . . . .	-	-	600	72	-	-
SAND . . . . .	-	-	100	12	-	-
UNCLASSIFIED . . . . .	5,600	235	5,000	225	-	-
OTHER . . . . .	500	30	700	42	-	-
KING CROAKER . . . . .	900	35	-	-	-	-
LINGCOD . . . . .	-	-	24,900	2,241	-	-
PERCH . . . . .	20,000	4,332	-	-	4,900	\$1,127
POMPANO . . . . .	-	-	400	100	-	-
ROCKFISHES . . . . .	-	-	194,300	11,658	-	-
SABLEFISH . . . . .	-	-	1,200	60	-	-
SALMON:						
CHINOOK OR KING . . . . .	-	-	121,600	72,044	-	-
SILVER OR COHO . . . . .	-	-	49,400	17,290	-	-
SEA BASS:						
BLACK . . . . .	-	-	1,000	129	-	-
WHITE . . . . .	60,000	15,223	5,400	1,620	-	-
SHARKS, UNCLASSIFIED . . . . .	115,500	11,771	6,000	660	-	-
SHEEPSHEAD . . . . .	-	-	1,000	67	-	-
SKATE . . . . .	1,000	50	-	-	-	-
SWORDFISH . . . . .	-	-	1,200	600	-	-
TUNA, ALbacore . . . . .	-	-	3,891,800	539,029	-	-
YELLOWTAIL . . . . .	-	-	100	7	-	-
UNCLASSIFIED, FOR FOOD . . . . .	100	6	-	-	9,800	98
TOTAL . . . . .	369,600	73,571	4,315,700	646,573	14,700	1,225

SPECIES	HARPOONS		TONS AND BY HAND		DIVING OUTFITS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SWORDFISH . . . . .	14,000	\$7,041	-	-	-	-
ABALONE . . . . .	-	-	-	-	535,100	\$405,518
OYSTERS, PACIFIC . . . . .	-	-	243,500	\$43,826	-	-
TOTAL . . . . .	14,000	7,041	243,500	43,826	535,100	405,518

# PACIFIC COAST FISHERIES

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## SAN PEDRO DISTRICT OF CALIFORNIA - OPERATING UNITS, 1964

ITEM	PURSE SEINES AND LAMPARA NETS					OTTER TRAWLS, FISH	
	ANCHOVY	MACKEREL AND SARDINE	SQUID	TUNA	OTHER		
FISHERMEN: ON VESSELS. ON BOATS AND SHORE . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
	64 3	537 6	3 3	1,114	18 6	5	
TOTAL . . . . .	67	543	6	1,114	24	5	
VESSELS, MOTOR . . . . . GROSS TONNAGE . . . . . BOATS, MOTOR . . . . . GEAR: NUMBER . . . . . LENGTH, YARDS . . . . . YARDS AT MOUTH . . . . .	13 375 3	63 4,730 48	1 32 1	94 31,497 186	4 78 2	1 29	
	14 5,550	65 33,250	2 650	94 71,480	6 2,100	1 -	
	-	-	-	-	-	27	
ITEM	POTS, LOBSTER, SPINY	GILL NETS, DRIFT			TRAMMEL NETS		
		BARRACUDA	SEA BASS	OTHER			
FISHERMEN: ON VESSELS . . . . . ON BOATS AND SHORE . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER		
	27 112	9 6	36 24	11 10	10 10		
TOTAL . . . . .	139	15	60	21	20		
VESSELS, MOTOR . . . . . GROSS TONNAGE . . . . . BOATS, MOTOR . . . . . GEAR: NUMBER . . . . . SQUARE YARDS . . . . .	11 159 56	3 56 3	14 204 12	5 70 5	3 48 5		
	4,465 -	6 18,000	26 77,000	10 26,900	8 44,000		
ITEM	LINES					TROLL	
	HAND				ALBACORE		OTHER
FISHERMEN: ON VESSELS . . . . . ON BOATS AND SHORE . . . <th>ALBACORE</th> <th>ROCKFISH</th> <th>YELLOWFIN AND SKIPJACK</th> <th>OTHER</th> <th>ALBACORE</th> <th>OTHER</th> <th data-kind="parent" data-rs="2">NUMBER</th>	ALBACORE	ROCKFISH	YELLOWFIN AND SKIPJACK	OTHER	ALBACORE	OTHER	NUMBER
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
	417 18	49 52	254 -	71 96	708 76	7 12	19
TOTAL . . . . .	435	101	254	167	784	19	
VESSELS, MOTOR . . . . . GROSS TONNAGE . . . . . BOATS, MOTOR . . . . . GEAR: NUMBER . . . . . HOOKS . . . . .	108 4,255 30	19 390 26	33 3,914 28	26 505 48	260 7,677 44	3 51 6	
	415 415	101 202	225 225	167 334	2,916 2,916	81 81	
ITEM	LINES - CONTINUED	DIP, BRAIL OR SCOOP NETS	HARPOONS, SWORDFISH	DIVING OUTFITS, ABALONE	TOTAL, EXCLUSIVE OF DUPLI- CATION		
	LONG OR SET WITH HOOKS	NUMBER	NUMBER	NUMBER	NUMBER		
FISHERMEN: ON VESSELS . . . . . ON BOATS AND SHORE . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER		
	19 8	48 22	14	11 76	2,814 452		
TOTAL . . . . .	27	70	14	89	3,266		
VESSELS, MOTOR . . . . . GROSS TONNAGE . . . . . BOATS, MOTOR . . . . . GEAR: NUMBER . . . . . HOOKS . . . . .	7 165 4	19 395 11	6 92	4 51 39	567 48,643 460		
	102 10,200	69 -	6	46	-		

# PACIFIC COAST FISHERIES

## SAN PEDRO DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES AND LAMPARA NETS		OTTER TRAWLS		POTS AND TRAPS		GILL AND TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANCHOVIES . . . . .	2,107,300	\$34,977	-	-	-	-	-	-
BARRACUDA . . . . .	75,000	12,279	-	-	-	-	155,000	\$26,350
BONITO . . . . .	2,460,800	59,971	-	-	-	-	-	-
FLOUNDERS, CALIFORNIA								
HALIBUT . . . . .			1,600	\$320	-	-	184,000	42,609
FLYING FISH . . . . .	20,000	2,400	-	-	-	-	50,000	6,347
HALFMON			-	-	-	-	4,800	878
KING CROAKER . . . . .	235,000	9,635	-	-	-	-	465,000	20,640
MACKEREL; . . . . .								
JACK . . . . .	74,927,200	1,804,125	-	-	-	-	-	-
PACIFIC . . . . .	25,448,400	627,511	-	-	-	-	3,200	96
OPALEYE . . . . .	500	79	-	-	-	-	-	-
PERCH . . . . .		-	-	-	-	-	24,500	3,050
POMPANO . . . . .	55,000	11,941	-	-	-	-	-	-
SARDINE, PACIFIC . . . . .	11,686,700	431,583	-	-	-	-	-	-
SEA BASS; . . . . .								
BLACK . . . . .	-	-	-	-	-	-	45,400	7,307
WHITE . . . . .	-	-	-	-	-	-	1,000,000	224,383
SHARKS, UNCLASSIFIED . . . . .	-	-	-	-	-	-	190,000	23,738
SHEEPSHEAD . . . . .	-	-	-	-	2,100	\$156	-	-
SMELT . . . . .	40,000	1,697	-	-	-	-	19,100	860
TUNA; . . . . .								
ALBACORE . . . . .	336,000	54,096	-	-	-	-	-	-
BLUEFIN . . . . .	20,441,500	2,486,557	-	-	-	-	-	-
SKIPJACK . . . . .	46,030,900	4,573,849	-	-	-	-	-	-
YELLOWFIN . . . . .	112,194,300	14,944,414	-	-	-	-	-	-
YELLOWTAIL . . . . .	53,700	6,121	-	-	-	-	-	-
UNCLASSIFIED, FOR FOOD . . . . .	50,000	1,000	-	-	-	-	50,000	1,000
CRAB, ROCK . . . . .	-	-	-	-	130,200	16,157	-	-
LOBSTER, SPINY . . . . .	-	-	-	-	163,600	116,251	-	-
SQUID . . . . .	6,600,000	81,602	-	-	-	-	-	-
TOTAL . . . . .	302,762,300	25,143,837	1,600	320	296,100	132,564	2,191,000	357,256

SPECIES	LINES		DIP, BRAIL OR SCOOP NETS		HARPOONS		DIVING OUTFITS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BARRACUDA . . . . .	26,900	\$4,913	-	-	-	-	-	-
CABEZON . . . . .	100	11	-	-	-	-	-	-
CABRILLA . . . . .	13,600	2,190	-	-	-	-	-	-
FLOUNDERS; . . . . .								
CALIFORNIA HALIBUT . . . . .	198,500	47,640	-	-	-	-	-	-
SAND DABS . . . . .	300	57	-	-	-	-	-	-
"SOLE", UNCLASSIFIED . . . . .	2,300	241	-	-	-	-	-	-
FLYING FISH . . . . .	-	-	15,900	\$2,067	-	-	-	-
GROUPERS . . . . .	124,200	27,445	-	-	-	-	-	-
HALFMON . . . . .	5,000	1,000	-	-	-	-	-	-
KING CROAKER . . . . .	23,700	1,185	-	-	-	-	-	-
LINGCOD . . . . .	1,200	115	-	-	-	-	-	-
MACKEREL; . . . . .								
JACK . . . . .	200	6	-	-	-	-	-	-
PACIFIC . . . . .	600	16	521,300	20,852	-	-	-	-
OPALEYE . . . . .	1,500	255	-	-	-	-	-	-
POMPANO . . . . .	6,900	1,564	-	-	-	-	-	-
ROCKFISHES . . . . .	479,400	60,918	-	-	-	-	-	-
SABREFISH . . . . .	900	95	-	-	-	-	-	-
SCULPIN . . . . .	16,100	5,401	-	-	-	-	-	-
SEA BASS; . . . . .								
BLACK . . . . .	100,000	16,092	-	-	-	-	-	-
WHITE . . . . .	81,500	20,375	-	-	-	-	-	-
SHARKS, UNCLASSIFIED . . . . .	29,400	4,410	-	-	-	-	-	-
SKATE . . . . .	3,000	222	-	-	-	-	-	-
SKATE, CALIFORNIA . . . . .	700	69	-	-	-	-	-	-
SWORDFISH . . . . .	25,100	14,317	-	-	120,000	\$68,450	-	-
TUNA; . . . . .								
ALBACORE . . . . .	19,853,600	3,207,472	-	-	-	-	-	-
BLUEFIN . . . . .	30,900	3,757	-	-	-	-	-	-
SKIPJACK . . . . .	6,178,600	613,934	-	-	-	-	-	-
YELLOWFIN . . . . .	7,599,900	1,012,230	-	-	-	-	-	-
YELLOWTAIL . . . . .	16,000	2,132	-	-	-	-	-	-
UNCLASSIFIED, FOR FOOD . . . . .	46,500	1,164	-	-	-	-	224,600	\$137,297
ABALONE . . . . .	-	-	256,100	9,355	-	-	-	-
TOTAL . . . . .	34,870,700	5,049,228	795,300	26,274	120,000	68,450	224,800	137,297

# PACIFIC COAST FISHERIES

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## SAN DIEGO DISTRICT OF CALIFORNIA - OPERATING UNITS, 1964

ITEM	PURSE SEINES AND LAMPARA NETS				POTS, LOBSTER, SPINY
	MACKEREL AND SARDINE	SQUID	TUNA	OTHER	
FISHERMEN: ON VESSELS. . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON BOATS AND SHORE. . . . .	12	-	251	2	15
TOTAL. . . . .	12	5	251	5	178
VESSELS, MOTOR. . . . .	3	1	20	1	6
GROSS TONNAGE. . . . .	107	35	8,029	17	242
BOATS, MOTOR. . . . .	-	-	40	1	89
GEAR:					
NUMBER. . . . .	3	1	20	2	6,260
LENGTH, YARDS. . . . .	1,200	400	16,150	500	-
GILL NETS, DRIFT					
ITEM	SEA BASS	OTHER	TRAMMEL NETS	LINES	
				HAND	
FISHERMEN: ON VESSELS. . . . .	NUMBER	NUMBER	NUMBER	ALBACORE	ROCKFISH
ON BOATS AND SHORE. . . . .	15	3	15	401	22
TOTAL. . . . .	22	8	6	60	64
VESSELS, MOTOR. . . . .	5	1	5	110	8
GROSS TONNAGE. . . . .	96	20	96	3,763	146
BOATS, MOTOR. . . . .	11	4	3	43	32
GEAR:					
NUMBER. . . . .	16	5	6	444	86
SQUARE YARDS. . . . .	44,700	13,500	42,500	-	-
HOOKS. . . . .	-	-	-	444	172
LINES - CONTINUED					
ITEM	HAND - CONTINUED		TROLL		LONG OR SET WITH HOOKS
	YELLOWFIN AND SKIPJACK	OTHER	ALBACORE	OTHER	
FISHERMEN: ON VESSELS. . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON BOATS AND SHORE. . . . .	82	32	313	-	7
TOTAL. . . . .	12	98	99	12	20
VESSELS, MOTOR. . . . .	94	130	412	12	27
GROSS TONNAGE. . . . .					
BOATS, MOTOR. . . . .	10	12	124	-	3
GEAR:	1,206	247	2,992		55
NUMBER. . . . .	12	49	57	6	10
Hooks. . . . .	81	130	1,629	54	110
	81	260	1,629	54	11,000
ITEM	OIP, BRAIL OR SCOOP NETS	HARPOONS, SWORDFISH	DIVING OUTFITS, ABALONE	TOTAL, EXCLUSIVE OF DUPLI- CATION	
	NUMBER	NUMBER	NUMBER	NUMBER	
FISHERMEN: ON VESSELS. . . . .	2	37	6	992	
ON BOATS AND SHORE. . . . .	-	-	30	425	
TOTAL. . . . .	2	37	36	1,417	
VESSELS, MOTOR. . . . .	1	3	2	253	
GROSS TONNAGE. . . . .	12	1,165	29	1,577	
BOATS, MOTOR. . . . .	-	3	15	271	
GEAR, NUMBER. . . . .	2	-	19	-	

# PACIFIC COAST FISHERIES

## SAN DIEGO DISTRICT OF CALIFORNIA - CATCH BY GEAR, 1964

SPECIES	PURSE SEINES AND LAMPARA NETS		POTS		GILL AND TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ANCHovies . . . . .	3,400	\$169	-	-	-	-
BARRACUDA . . . . .	6,100	1,193	-	-	6,500	\$1,040
BONITO . . . . .	136,300	5,406	-	-	-	-
FLoundERS, CALIFORNIA HALIBUT . . . . .	-	-	-	-	143,800	29,428
HALFMoon . . . . .	200	25	-	-	-	-
KING CROAKER . . . . .	1,000	79	-	-	2,000	200
MACKEREL, PACIFIC . . . . .	1,200	71	-	-	200	12
PERCH . . . . .	500	77	-	-	1,000	160
POMPANO . . . . .	300	70	-	-	-	-
SARDINES, PACIFIC . . . . .	196,200	23,097	-	-	-	-
SEA BASS:						
BLACK . . . . .	-	-	-	-	16,400	2,478
WHITE . . . . .	-	-	-	-	170,000	32,903
SHARKS, UNCLASSIFIED . . . . .	-	-	-	-	100,000	10,278
SHEEPSHEAD . . . . .	-	-	3,800	\$312	-	-
TUNA:						
ALBACORE . . . . .	52,000	8,320	-	-	-	-
BLUDEFIN . . . . .	2,655,600	330,879	-	-	-	-
SKIPJACK . . . . .	10,750,900	1,110,295	-	-	-	-
YELLOWFIN . . . . .	26,410,100	3,480,056	-	-	-	-
YELLOWTAIL . . . . .	30,600	2,664	-	-	-	-
UNCLASSIFIED, FOR FOOD	500	55	-	-	500	55
CRABS, ROCK . . . . .	-	-	5,800	322	-	-
LOBSTER, SPINY . . . . .	-	-	179,100	126,306	-	-
SQUID . . . . .	3,900	97	-	-	-	-
<b>TOTAL . . . . .</b>	<b>40,252,800</b>	<b>4,962,553</b>	<b>189,700</b>	<b>126,940</b>	<b>440,400</b>	<b>76,554</b>

SPECIES	LINES		DIP, BRAIL OR SCOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE
BARRACUDA . . . . .	1,700	\$272	-	-
FLoundERS:				
CALIFORNIA HALIBUT . . . . .	150,000	33,000	-	-
SAN DABS . . . . .	19,100	4,995	-	-
"SOLE":				
PETRALE . . . . .	1,000	246	-	-
UNCLASSIFIED . . . . .	16,400	4,063	-	-
GROUPERS				
KING CROAKER . . . . .	39,800	9,584	-	-
LINGCOD . . . . .	300	30	-	-
MACKEREL, PACIFIC . . . . .	1,500	90	500	\$30
PERCH . . . . .	200	32	-	-
POMPANO . . . . .	100	25	-	-
ROCKFISHES . . . . .	243,900	29,526	-	-
SABLEFISH . . . . .	600	47	-	-
SOLE . . . . .	78,100	21,213	-	-
SEA BASS:				
BLACK . . . . .	60,000	9,900	-	-
WHITE . . . . .	39,300	7,660	-	-
SHARKS, UNCLASSIFIED . . . . .	22,400	2,688	-	-
SHEEPSHEAD . . . . .	8,000	655	-	-
SWORDFISH . . . . .	1,500	979	-	-
TUNA:				
ALBACORE . . . . .	10,057,700	1,621,688	-	-
BLUDEFIN . . . . .	43,200	5,400	-	-
SKIPJACK . . . . .	1,911,400	199,167	-	-
YELLOWFIN . . . . .	1,304,100	180,748	-	-
WAHOO . . . . .	4,200	849	-	-
YELLOWTAIL . . . . .	7,700	770	-	-
UNCLASSIFIED, FOR FOOD . . . . .	300	36	-	-
<b>TOTAL . . . . .</b>	<b>14,012,100</b>	<b>2,133,691</b>	<b>500</b>	<b>30</b>

SPECIES	HARPOONS		DIVING OUTFITS	
	POUNDS	VALUE	POUNDS	VALUE
SWORDFISH . . . . .	20,000	\$10,873	-	-
ABALONE . . . . .	-	-	48,100	\$22,669
<b>TOTAL . . . . .</b>	<b>20,000</b>	<b>10,873</b>	<b>48,100</b>	<b>22,669</b>

# PACIFIC COAST FISHERIES

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## LANDINGS BY HALIBUT FLEET AT SEATTLE, WASHINGTON

Halibut landings at Seattle were 7.9 million pounds (dressed weight) valued at \$2.0 million. This was a decline of 2.7 million pounds (25 percent) and \$445,000 (18 percent) compared with the previous year. Landings of halibut from fishing grounds west of Cape Spencer (6.2 million pounds) and south of Cape Spencer (1.7 million pounds) were 2.0 million pounds and 683,000 pounds less, respectively, than in 1963.

Landings of sablefish from grounds off Cape Spencer (1.2 million pounds) showed a slight decline from the previous year.

The following tables contain a summary of the landings of dressed halibut and sablefish at Seattle by the U. S. 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, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

FISHING GROUNDS	TRIPS	HALIBUT (DRESSED)					
		CHICKEN		MEDIUM		LARGE	
WEST OF CAPE SPENCER : SOUTH OF CAPE SPENCER :	NUMBER	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
	112	64	14	3,524	887	2,120	539
	137	157	36	1,222	342	220	61
TOTAL . . . . .	249	221	50	4,745	1,229	2,340	600
HALIBUT (DRESSED) - CONTINUED							
FISHING GROUNDS	NO. 2 MEDIUM	NO. 2 LARGE		SABLEFISH		TOTAL	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
	389	87	90	20	1	6,188	1,547
SOUTH OF CAPE SPENCER :	61	14	4	1	1,194	2,858	1,722
TOTAL . . . . .	450	101	94	21	1,195	268	9,046

1/ LESS THAN \$500.

SEE NOTE AT END OF NEXT TABLE.

## LANDINGS BY THE HALIBUT FLEET AT SEATTLE, BY MONTHS, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

MONTHS	TRIPS	HALIBUT (DRESSED)					
		CHICKEN		MEDIUM		LARGE	
APRIL . . . . . MAY . . . . . JUNE . . . . . JULY . . . . . AUGUST . . . . . SEPTEMBER . . . . . OCTOBER . . . . . NOVEMBER . . . . . TOTAL . . . . .	NUMBER	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
	22	7	1	589	138	135	32
	49	29	6	1,505	358	657	156
	42	59	14	918	238	568	144
	24	55	13	499	138	195	53
	34	52	12	849	239	471	125
	36	16	4	222	67	132	36
	34	(1)	2	158	49	182	52
	8	(1)	(1)	6	2	-	-
	249	221	50	4,745	1,229	2,340	600
	HALIBUT (DRESSED) - CONTINUED						
MONTHS	NO. 2 MEDIUM	NO. 2 LARGE		SABLEFISH		TOTAL	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
	70	14	16	3	-	817	168
	89	16	12	2	-	2,322	545
	79	17	15	3	47	9	1,686
	38	9	4	1	74	17	665
	87	21	20	5	120	27	1,599
	32	8	9	2	411	91	822
	55	14	18	5	425	97	840
	(1)	(1)	(1)	(1)	68	22	94
	450	101	94	21	1,195	268	9,046
	TOTAL . . . . .						2,259

1/ LESS THAN 500 POUNDS OR \$500.

NOTE:--THE 1964 PACIFIC HALIBUT FISHING SEASON OPENED ON MARCH 25 IN AREA 3B (NORTH) AND CLOSED ON OCTOBER 15. AREA 3B (SOUTH) OPENED TO HALIBUT FISHING ON APRIL 6 AND CLOSED ON OCTOBER 15. AREAS 1 AND 2 OPENED TO HALIBUT FISHING ON MAY 1 AND CLOSED ON SEPTEMBER 15. AREA 3A OPENED TO HALIBUT FISHING ON MAY 1 AND CLOSED ON AUGUST 15.

# PACIFIC COAST FISHERIES

## WHALING, 1964

During the whaling season, the Del Monte Fishing Company and the Golden Gate Fishing Company operated their two shore stations on Point San Pablo, Calif., and Bioproducts, Inc., operated one plant at Warrenton, Oreg. As in previous years, Del Monte used the catcher boats Allen Cody, Dennis Gayle, and Donna Mae, Golden Gate used the Lynnann and Sioux City, and Bioproducts used the Tom and Al. The whaling season remained the same as in previous years--April 1 to November 30, inclusive, for sperm whales and April 16 to October 15, inclusive, for other whales.

In 1964, 274 whales were caught--15 more than in the previous year. The season was marked by a large influx of fin whales into the area off San Francisco--apparently because of an abundance of krill (*Euphausia pacifica*), their preferred food. As a result of their unusually long stay in these waters, 147 whales were taken--126 more than in 1963 and the largest catch of fin whales in 25 years. In 1964, only 13 sei whales were captured, compared with 97 in 1963. The 27 humpbacks taken in 1964 were about one-half the 1963 production because of the seriously depleted stocks. The catch of 64 sperm whales was the third highest in 25 years, exceeded only by the catch of 77 and 104 in 1963 and 1961, respectively. In 1964, the usual autumn passage of a few blue whales off the coast did not occur, despite an abundance of food.

In addition to the species regularly taken, 20 gray whales were captured for research purposes by the California stations under a special permit issued to the Director of the Bureau's Marine Mammal Biological Laboratory.

The catch was processed into 3.3 million pounds of meal, 3.2 million pounds of oil, and 4.5 million pounds of meat (for use as canned or frozen animal food). These products were valued at \$734,000 to the producer--an increase of 44 percent in volume and 35 percent in value compared with 1963.

The Scientific Committee of the International Whaling Commission, through its North Pacific Working Group, continued studies aimed at formulating rational management plans for North Pacific whale stocks. Scientists of the United States, Canada, Japan, and the Union of Soviet Socialist Republics cooperated in these studies.

## WHALE CATCH, 1964

MONTH	BLUE	BOTTLE-NOSE	FIN	GRAY 1/	HUMP-BACK	KILLER	SEI	Sperm	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
MARCH . . . . .	-	-	-	20	-	-	-	-	20
APRIL . . . . .	-	-	-	-	7	-	-	-	18
MAY . . . . .	-	-	20	-	13	-	-	-	44
JUNE . . . . .	-	-	13	-	7	-	-	-	23
JULY . . . . .	2	-	63	-	-	-	2	-	67
AUGUST . . . . .	-	-	24	-	-	-	3	-	33
SEPTEMBER . . . . .	-	1	25	-	-	-	7	9	42
OCTOBER . . . . .	-	-	2	-	-	-	1	16	19
NOVEMBER . . . . .	-	-	-	-	-	-	8	-	8
TOTAL . . . . .	2	1	147	20	27	-	13	64	274

1/ GRAY WHALES WERE TAKEN UNDER A SPECIAL SCIENTIFIC PERMIT.

## WHALE PRODUCTS, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

ITEM	QUANTITY	VALUE
MEAL . . . . .	3,328	155
MEAT . . . . .	4,522	383
OIL:		
SPERM . . . . .	401	26
WHALE . . . . .	2,758	170
TOTAL . . . . .	11,009	734

NOTE:--TO CONVERT POUNDS OF OIL TO GALLONS, DIVIDE BY 7.75.

# PACIFIC COAST FISHERIES

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## FUR SEAL INDUSTRY OF THE PРИБИЛОФ ISLANDS

Fur sealing operations on the Pribilof Islands in 1964 produced 64,206 sealskins, 21,048 less than in the previous year. Male seals accounted for 48,223 skins or 75 percent of the take compared with less than 50 percent in 1963. A more normal proportion of 3-year-old bachelors occurred in 1964-- 61 percent of the male harvest compared with 45 percent in 1963. The greater availability of 3-year-olds was responsible for the increase in the number of male seals taken. The 48-3/4-inch maximum length was again waived, and all bachelor males that had not matured were taken and processed regardless of size. This reduced the excess number of idle bulls and provided several thousand additional sealskins. Most of the over-size bachelors had choice commercial quality furs.

The 8-year span of seal herd reduction by the annual removal of large numbers of females was terminated, and only 15,983 female skins were taken. All female sealskins were used in 1964. The previous annual herd reduction quota of 43,750 females was reduced to only 9,000 to 18,000, to stabilize the herd at the calculated optimum number. Of the total female kill, 12,594 (79 percent) were immature animals, which produce fur adaptable to processing the same as males. The remaining 3,389 mature females, although less desirable for processed fur, have acquired increased value because their furs are processed by a new method of close shearing.

The take of sealskins on St. George Island was 24 percent of the total harvest. Over a long-term period, it has averaged 20 percent.

For the second year, sealskin curing operations were under government supervision. Most of the 71-man crew in the skin-curing plants were Pribilof and Aleutian Islands residents. Only 26 men were from mainland areas. Sealing operations in the field were carried on entirely by local crews that are skilled in the work.

Seal pup mortality was again checked on the rookeries. Deaths on St. Paul Island were calculated to be 22,651 and on St. George Island, 2,391. This was only 63 percent of the mortality in 1963 and is a further indication that the survival of 3-year-old seals will continue to improve.

### CLASSES OF SEALS TAKEN ON THE PРИБИЛОФ ISLANDS, BY AGE GROUP, 1964

ITEM	ST. PAUL ISLAND		ST. GEORGE ISLAND	
	MALE	FEMALE	MALE	FEMALE
<b>BY AGE:</b>				
2-YEAR OLDS.				.PERCENTAGE OF KILL.
3- " "	7	3	6	2
4- " "	60	21	64	29
5- " "	28	22	25	24
6- " "	5	23	5	28
7- " "	-	13	-	10
8- " AND OLDER	-	4	-	2
TOTAL . . . . .	100	100	100	100

NOTE:--PERCENTAGE OF MALE SEALS FOR SEASON JULY 1 TO AUGUST 7. PERCENTAGE OF FEMALE SEALS FOR SEASON AUGUST 14 TO 28.

A 5-year contract to utilize fur seal carcasses from which pelts had been stripped was awarded to Pacific Fur Foods, Inc. of Boring, Oreg. A 500-ton capacity sharp-freezer and cold-storage unit was installed at St. Paul Island in time to process most of the season's production on that Island. The firm processed 1,635,776 pounds of seal carcasses, mostly into frozen ground meat suitable for mink feed. Although the government received only \$256 from the sale of seal carcasses, it was reimbursed \$28,945 for transportation and local services furnished the mink food company.

# PACIFIC COAST FISHERIES

## DISTRIBUTION OF TAKE OF SEALSKINS, 1964

The fur seal treaty provides that Canada and Japan each receive 15 percent of the skins taken on the Pribilof Islands. The distribution of sealskins follows:

ITEM	UNITED STATES	CANADA	JAPAN	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER
FROM ST. PAUL ISLAND: MALE SKINS . . . . . FEMALE SKINS . . . . .	25,922 8,097	5,555 1,735	5,555 1,735	37,032 11,567
TOTAL . . . . .	34,019	7,290	7,290	48,599
FROM ST. GEORGE ISLAND: MALE SKINS . . . . . FEMALE SKINS . . . . .	7,833 3,092	1,679 662	1,679 662	11,191 4,416
TOTAL . . . . .	10,925	2,341	2,341	15,607
FROM BOTH ISLANDS: MALE SKINS . . . . . FEMALE SKINS . . . . .	33,755 11,189	7,234 2,397	7,234 2,397	48,223 15,983
GRAND TOTAL . . . . .	44,944	9,631	9,631	64,206

The standard packing formula used in 1964 was 80 male skins, 80 immature female skins, and 65 mature female skins per barrel. This was a departure from the previous year, when all female skins were packed 65 per barrel. A total of 364 barrels of blubber was salted for subsequent extraction of oil for tanning sealskins. The season's total sealskin production was transported to Seattle on the Bureau's new vessel Pribilof. The skins for the United States and Canada were put in storage pending selection of a processing contractor, while Japan elected to send its skins to the Fouke Fur Company for early tanning.

## SALE OF SEALSKINS, 1964

A total of 62,579 sealskins was sold for the account of the U.S. Government at the two public auctions held in Greenville, S.C., during 1964. An additional 76 skins were sold at special sales. Gross receipts from all 1964 sales were \$4,601,365, of which \$2,879,321 accrued to the Government after processing costs were deducted for the account of the contractor. Offerings consisted of 46,416 conventionally processed skins, which yielded \$3,844,624, and 16,239 female skins, which sold for \$756,741. The latter included 12,551 LAKODA sheared skins which sold for \$664,099 and 3,688 natural sheared which brought \$92,642. Average prices received were \$82.83 for conventional-process, \$52.91 for LAKODA, and \$25.12 for natural sheared.

## DISTRIBUTION OF PRIBILOF ISLANDS RECEIPTS, FISCAL YEAR, 1964

ITEM	AMOUNT
COST OF HANDLING, PROCESSING, DYEING AND DRESSING	\$1,845,990
COST OF ADMINISTRATION OF PRIBILOF ISLANDS . . . . .	2,604,830
PAYMENT TO THE STATE OF ALASKA . . . . .	963,635
NET RECEIPTS TO U. S. GOVERNMENT . . . . .	412,966
TOTAL . . . . .	5,827,441

NOTE:--FIGURES SHOWN IN THE ABOVE TABLE ARE COMPUTED ON A FISCAL YEAR BASIS. THOSE QUOTED IN THE PRECEDING NARRATIVE ARE ON A CALENDAR YEAR BASIS.

# SECTION 8 - GREAT LAKES FISHERIES

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The United States and Canadian catch of fresh-water fish from the five Great Lakes, Lake St. Clair, and three of the international lakes of northern Minnesota and Canada was 95 million pounds--11 million pounds less than in 1963. Landings of carp, chubs, lake herring, yellow perch, and yellow pike were down substantially. Alewives, however, increased from 5.4 million pounds in 1963 to 11.7 million, and smelt rose from 13.7 to 16.4 million pounds.

Canadian production declined for the second consecutive year. The 1964 catch of 37.9 million pounds was 9.0 million pounds less than in 1963, because of a 9.6-million-pound decrease in the yellow perch catch in Lake Erie. Since 1962 the yellow perch production in Lake Erie has declined from 20.9 million pounds to 8.4 million pounds. Total Lake Ontario landings increased slightly, and Lake Huron catches rose 380,000 pounds. Lake St. Clair, Lake Superior, and the international lakes showed small decreases.

Commercial landings in U. S. waters of the Great Lakes and international lakes were 56.7 million pounds--4 percent less than in 1963; however, the value increased \$283,000. Of the 34 commercial species landed, the average price per pound received by the fishermen increased for 21 species, decreased for 11, and remained the same for 2. Yellow perch increased \$324,000 compared with 1963, although landings were down 3.0 million pounds. The demand for this species caused the price rise from 9 cents a pound in 1963 to nearly 17 cents in 1964. Michigan was the largest producer with 19.8 million pounds, followed by Wisconsin, 18.6; Ohio, 11.2; and Minnesota, 5.2 million pounds. The Great Lakes in order of production were: Michigan, Erie, Superior, Huron, and Ontario. The catch in Lake of the Woods (3.0 million pounds) accounted for 96 percent of the catch in the international lakes.

Fishermen and vessels. In 1964, 2,533 fishermen, 386 vessels of 5 net tons and over, and 1,178 other craft were employed in the U. S. commercial fisheries of the Great Lakes. Fishermen on vessels averaged 97 man-days of fishing, and the average vessel operated 92 days. Fishermen on other craft averaged 41 man-days of fishing, whereas these smaller craft operated an average of 35 days. Fishermen days of operation totaled 151,376, and craft days equaled 73,298--a decrease of 19,612 fishermen days and 8,431 craft days compared with 1963.

Fishing effort. Owing to the decline in days of operation, total fishing effort decreased for nearly all gears. Only two major gears showed appreciable increases in use: 1-1/4- to 2-inch-mesh gill nets, 4- to 7-inch gill net lifts, and otter trawls. More abundant whitefish in Lake Michigan caused the rise in total fishing effort for the 4- to 7-inch-mesh gill nets. Failure of the yellow pike fishery to make a comeback in Lake Erie and in Saginaw Bay of Lake Huron was largely responsible for a decline in trap net lifts. The effects of bacterial contaminations late in 1963 continued to hamper the sale of smoked fish for at least the first 6 months of 1964, thus causing a decrease in the total fishing effort in the 2-1/8- to 3-7/8-inch-mesh gill net fishery. This gear is a primary producer of chubs that are used exclusively for smoking.

## U. S. catch by lake.

Lake Ontario. The Lake Ontario catch of 267,000 pounds was 15 percent more than in 1963. Lake Ontario has not been a large producer--its average catch has been less than 400,000 pounds during the past 25 years.

Lake Erie. Production for 1964 (13.4 million pounds) was 3.9 million pounds less than 1963. Yellow perch landings were only 1.5 million pounds--down 4.3 million pounds from 1963. Both carp and yellow pike landings declined. Sheepshead and white bass production increased.

## GREAT LAKES FISHERIES

Lake Huron. The commercial catch of 4.1 million pounds was 1.1 million pounds less than in 1963. Carp and chub catches were down, while yellow perch production increased.

Lake Michigan. The catch of 26.2 million pounds was 5.2 million pounds more than in 1963. Alewife landings rose 6.3 million pounds; common whitefish, 492,000 pounds; and yellow perch, 963,000 pounds. Catches of chubs fell 2.3 million pounds.

Lake Superior. Landings of 9.6 million pounds were 2.5 million pounds less than in 1963. Chubs decreased 799,000 pounds and lake herring, 2.2 million pounds, whereas smelt increased 527,000 pounds.

International lakes. The combined U. S. catch from the international lakes decreased slightly. Tullibee production was higher; small decreases were noted for most other species.

Sea lamprey control. To evaluate the effectiveness of the chemical control of lampreys, the Bureau operated 22 electrical barriers in streams on the south shore of Lake Superior. The take of spawning-run sea lampreys (11,969) remained low compared with the 1961 peak when 67,230 were captured. Eight streams along the south shore of Lake Superior and 15 tributaries of Lake Michigan were initially treated with a selective lampricide, and 29 streams were re-treated. In 1964, 1,781 miles of stream were treated. Surveys to determine if the streams were producing sea lampreys were made on 32 Lake Superior and 29 Lake Michigan tributaries. Sampling the abundance of lake trout shows that these fish are continuing to increase, thus demonstrating the effectiveness of the selective chemical destruction of sea lamprey larvae in Lake Superior tributaries. Under the coordination of the Great Lakes Fishery Commission, the United States and Canada released 2.6 million yearling lake trout in Lake Superior.

Research. The effects of the bacterial contamination of smoked fish that occurred late in 1963 were still noticeable in the chub fishery and the smoked fish industry. Two important steps were taken to revive these commercial enterprises:

(1) Since frozen chub inventories were high and there was little demand for smoked chub, fishing was unprofitable. Under section 4b of P.L. 88-309, holders of frozen chubs were paid to remove these fish from human food channels. All chub payments were processed in the field by December 31. In all, 1.7 million pounds of chubs were diverted to uses other than human food at a cost of \$283,084.

(2) The Bureau initiated inhouse and contract research programs on bacteria in smoked fish. These programs included:

(a) Awards of research contracts to study microbiological and processing aspects of smoking fish.

(b) Publication of data on studies related to new methods of smoking and processing chub.

(c) Preparation of sanitary guidelines for smoked fish plants.

(d) Establishment of a completely equipped isolated laboratory for inhouse research.

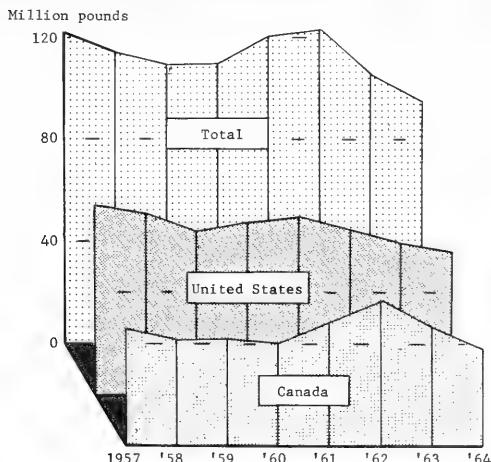
Four research vessels, Cisco, Kaho, Musky II, and Siscowet continued to operate on the Great Lakes in support of research studies aimed at management, conservation, and development of the Lake fisheries.

Other information. Condensed summary data on the catch of the Great Lakes fisheries appearing on the following pages have been previously published in Current Fishery Statistics No. 3954. Seasonal variations in the catch of fish landed in Wisconsin, Ohio, and Michigan can be ascertained from monthly landing bulletins issued currently in cooperation with the fishery departments of these States. Additional specific data on Great Lakes fisheries may be found in the daily, monthly, and annual reports published by the Bureau's Fishery Market News Service office in Chicago, Ill.

Acknowledgments. The following organizations assisted in the collection of data appearing in this section: Dominion Bureau of Statistics of Canada; Illinois Department of Conservation, Division of Fisheries; Indiana Department of Conservation, Division of Fish and Game, Section of Fish Management; Michigan Department of Conservation, Fish Section, Great Lakes Fisheries; Minnesota Department of Conservation, Division of Game and Fish, Section of Fisheries; 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 the Wisconsin Conservation Department, Fish Management Division.



#### UNITED STATES AND CANADIAN CATCH, 1957-64



# GREAT LAKES FISHERIES

## SUMMARY OF UNITED STATES AND CANADIAN CATCH, 1964 (THOUSANDS OF POUNDS)

SPECIES	LAKE ONTARIO			LAKE ERIE		
	UNITED STATES	CANADA	TOTAL	UNITED STATES	CANADA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
ALEWIVES . . . . .	(1)	-	(1)	-	(1)	(1)
BOWFIN . . . . .	-	2	6	-	20	20
BUFFALOFISH . . . . .	-	-	-	121	-	121
BULLHEADS . . . . .	44	147	191	127	34	161
BURBOT . . . . .	(1)	-	(1)	3	1	4
CARP . . . . .	39	270	309	2,909	187	3,096
CATFISH . . . . .	1	20	21	1,164	171	1,335
CHUBS . . . . .	-	-	(1)	-	-	-
CISCO . . . . .	8	-	8	1	-	1
CRAPPIE . . . . .	1	-	1	-	-	-
EELS, COMMON . . . . .	33	246	279	-	(1)	(1)
GARFISH . . . . .	(1)	-	-	-	-	-
GIZZARD SHAD . . . . .	-	-	-	11	-	11
GOLDFISH . . . . .	-	-	-	159	-	159
LAKE HERRING . . . . .	-	38	38	-	2	2
LAKE TROUT . . . . .	-	(1)	(1)	-	(1)	(1)
MOONYEYE OR GOLDEYE . . . . .	-	-	-	(1)	-	(1)
PIKE OR PICKEREL . . . . .	(1)	32	32	-	2	2
QUILLBACK . . . . .	-	-	-	(1)	-	(1)
ROCK BASS . . . . .	-	4	40	44	66	66
SAUCER . . . . .	-	-	3	3	(1)	(1)
SHEEPSHEAD . . . . .	(1)	34	34	4,549	752	5,301
SMELT . . . . .	1	128	129	446	12,735	13,181
STURGEON . . . . .	(1)	6	6	1	1	2
SUCKERS . . . . .	13	37	50	240	88	328
SURFPERCH . . . . .	12	192	204	-	24	24
WHITE BASS . . . . .	4	70	74	1,535	1,723	3,258
WHITEFISH, COMMON . . . . .	16	125	141	-	3	6
WHITE PERCH . . . . .	3	271	274	-	-	-
YELLOW PERCH . . . . .	83	235	318	1,520	8,351	9,671
YELLOW PIKE . . . . .	3	66	69	565	599	1,164
UNCLASSIFIED, FOR ANIMAL FOOD . . . . .	-	49	49	-	622	622
TOTAL . . . . .	267	2,015	2,282	13,354	25,381	38,735

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 . . . . .	(1)	(1)	(1)	11744	(1)	-	(1)		
BOWFIN . . . . .	(1)	-	(1)	-	-	-	-		
BUFFALOFISH . . . . .	8	(1)	8	31	(1)	(1)	(1)		
BULLHEADS . . . . .	-	-	1	15	(1)	-	-		
BURBOT . . . . .	-	1	1	(1)	7	(1)	(1)		
CARP . . . . .	1,003	42	1,045	1,320	1	(1)	1		
CATFISH . . . . .	153	18	171	(1)	-	-	-		
CHUBS . . . . .	1,256	1,563	2,819	5,172	789	42	831		
CRAPPIE . . . . .	1	-	1	-	-	-	-		
GIZZARD SHAD . . . . .	-	-	-	(1)	-	-	-		
LAKE HERRING . . . . .	40	11	51	34	6,187	1,935	8,122		
LAKE TROUT . . . . .	-	2	2	(1)	102	106	208		
PIKE OR PICKEREL . . . . .	36	37	73	37	(1)	4	4		
QUILLBACK . . . . .	9	-	9	-	-	-	-		
ROCK BASS . . . . .	-	37	73	(1)	-	-	-		
SAUCER . . . . .	9	-	9	-	-	-	-		
SCULPIN . . . . .	(1)	(1)	(1)	1	(1)	(1)	(1)		
SHEEPSHEAD . . . . .	22	33	55	(1)	-	-	-		
SMELT . . . . .	32	(1)	32	969	2,020	20	2,040		
STURGEON . . . . .	1	16	19	3	(1)	1	1		
SUCKERS . . . . .	438	211	649	215	45	65	110		
WHITE BASS . . . . .	3	13	16	-	-	-	-		
WHITEFISH, COMMON . . . . .	165	645	810	777	426	133	559		
MENOMINEE . . . . .	3	14	17	11	48	56	104		
YELLOW PERCH . . . . .	836	709	1,545	5,635	17	28	45		
YELLOW PIKE . . . . .	79	394	473	35	(1)	216	216		
UNCLASSIFIED, FOR ANIMAL FOOD . . . . .	-	255	255	-	-	8	8		
TOTAL . . . . .	4,095	3,967	8,062	26,201	9,642	2,682	12,324		

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GREAT LAKES FISHERIES

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## SUMMARY OF UNITED STATES AND CANADIAN CATCH, 1964 - Continued

(THOUSANDS OF POUNDS)

SPECIES	TOTAL, GREAT LAKES			LAKE ST. CLAIR		
	UNITED STATES	CANADA	TOTAL	UNITED STATES 2/	CANADA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
ALEWIVES . . . . .	11,745	(1)	11,745	-	-	-
BIGLIPPIKE. . . . .	2	26	28	-	(1)	(1)
BOWFIN. . . . .	121	-	121	-	-	-
BULLHEADS. . . . .	210	181	391	-	11	11
BURBOT. . . . .	25	11	36	-	-	-
CARP. . . . .	5,272	499	5,771	8	211	219
CATFISH. . . . .	1,318	209	1,527	-	62	62
CHUBS. . . . .	7,217	1,605	8,822	-	-	-
CISCO. . . . .	9	-	9	-	-	-
CRAPPIE. . . . .	2	-	2	-	-	-
EELS, COMMON. . . . .	33	246	279	-	-	-
GARFISH. . . . .	(1)	-	(1)	-	-	-
GIZZARD SHAD. . . . .	11	-	11	-	-	-
GOLDFISH. . . . .	159	-	159	-	-	-
LAKE HERRING. . . . .	6,261	1,996	8,247	-	-	-
LAKE TROUT. . . . .	102	108	210	-	-	-
MOONEYE OR GOLDEYE. . . . .	(1)	-	(1)	-	-	-
PIKE OR PICKEREL. . . . .	73	75	148	-	24	24
QUILLBACK. . . . .	9	-	9	-	-	-
ROCK BASS. . . . .	13	107	120	-	35	35
SAUGER. . . . .	1	62	63	-	(1)	(1)
SCULPIN. . . . .	2	-	2	-	-	-
SHEEPSHEAD. . . . .	4,571	819	5,390	-	7	7
SMELT. . . . .	3,468	12,683	16,351	-	-	-
STURGEON. . . . .	5	28	31	-	9	9
SUCKERS. . . . .	951	401	1,352	-	90	90
SUNFISH. . . . .	12	216	228	-	57	57
WHITE BASS. . . . .	1,542	1,806	3,348	-	27	27
WHITEFISH. . . . .	COMMON	906	2,293	-	-	-
MENOMINEE. . . . .	62	70	132	-	-	-
WHITE PERCH. . . . .	3	271	274	-	-	-
YELLOW PERCH. . . . .	8,291	9,323	17,614	-	21	21
YELLOW PIKE. . . . .	682	1,275	1,957	-	356	356
UNCLASSIFIED, FOR ANIMAL FOOD. . . . .	-	934	934	-	36	36
TOTAL . . . . .	53,559	34,045	87,604	8	946	954

SPECIES	LAKE OF THE WOODS			NAMAKAN LAKE		
	UNITED STATES	CANADA	TOTAL	UNITED STATES	CANADA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
BUFFALOFISH. . . . .	(1)	-	(1)	-	-	-
BULLHEADS. . . . .	2	132	134	-	-	-
BURBOT. . . . .	189	269	458	4	2	6
CARP. . . . .	-	(1)	(1)	-	-	-
CATFISH. . . . .	-	(1)	(1)	-	-	-
LAKE TROUT. . . . .	-	4	4	-	-	-
MOONEYE OR GOLDEYE. . . . .	(1)	-	(1)	-	-	-
PIKE OR PICKEREL. . . . .	76	411	487	-	(1)	(1)
QUILLBACK. . . . .	(1)	-	-	-	-	-
ROCK BASS. . . . .	-	40	40	-	(1)	(1)
SAUGER. . . . .	68	39	107	-	-	-
STURGEON. . . . .	-	(1)	(1)	-	(1)	(1)
SUCKERS. . . . .	231	418	649	8	8	16
SUNFISH. . . . .	-	(1)	(1)	-	-	-
TULLIBEE. . . . .	2,203	236	2,439	8	4	12
WHITE BASS. . . . .	-	(1)	(1)	-	-	-
WHITEFISH, COMMON. . . . .	(1)	96	96	11	3	14
YELLOW PERCH. . . . .	12	7	19	-	-	-
YELLOW PIKE. . . . .	217	564	781	-	7	7
UNCLASSIFIED, FOR ANIMAL FOOD. . . . .	-	77	77	-	-	-
TOTAL . . . . .	2,998	2,293	5,291	31	24	55

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

## GREAT LAKES FISHERIES

## SUMMARY OF UNITED STATES AND CANADIAN CATCH, 1964 - Continued

(THOUSANDS OF POUNDS)

SPECIES	RAINY LAKE			TOTAL, INTERNATIONAL LAKES			GRAND TOTAL, ALL LAKES		
	UNITED STATES	CANADA	TOTAL	UNITED STATES	CANADA	TOTAL	UNITED STATES	CANADA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
ALEWIVES . . . . .	-	-	-	-	-	-	11,745	(1)	11,745
BIGEYE TROUT . . . . .	-	-	-	-	-	-	(1)	2	(1)
BOWFIN . . . . .	-	-	-	-	-	-	26	26	26
BUFFALOFISH . . . . .	-	-	-	(1)	-	(1)	121	-	121
BULLHEADS . . . . .	-	-	-	2	143	145	212	324	536
BURBOT . . . . .	20	102	122	213	373	586	238	384	622
CARP . . . . .	-	-	-	8	211	219	5,260	710	5,990
CATFISH . . . . .	-	-	-	-	62	62	1,318	271	1,589
CHUBS . . . . .	-	-	-	-	-	-	7,217	1,605	8,822
CISCO . . . . .	-	-	-	-	-	-	9	-	9
CRAPPIE . . . . .	-	-	-	-	-	-	2	-	2
EELS, COMMON . . . . .	-	-	-	-	-	-	33	246	279
GARFISH . . . . .	-	-	-	-	-	-	(1)	-	(1)
GIZZARD SHAD . . . . .	-	-	-	-	-	-	11	-	11
GOLDFISH . . . . .	-	-	-	-	-	-	159	-	159
LAKE HERRING . . . . .	-	-	-	-	-	-	6,261	1,986	8,247
LAKE TROUT . . . . .	-	-	-	-	-	-	102	112	214
MOONEYE OR GOLDEYE . . . . .	-	-	-	4	4	4	(1)	(1)	(1)
PIKE OR PICKEREL . . . . .	6	145	151	82	580	662	155	655	810
QUILLBACK . . . . .	-	-	-	(1)	-	(1)	9	-	9
ROCK BASS . . . . .	-	4	4	-	79	79	13	166	199
SALMON . . . . .	-	1	1	68	40	108	69	102	171
SCULPIN . . . . .	-	-	-	-	-	-	2	-	2
SHEEPSHEAD . . . . .	-	-	-	-	-	-	4,571	826	5,397
SMELT . . . . .	-	-	-	-	-	-	3,468	12,883	16,351
STURGEON . . . . .	-	2	2	-	11	11	5	37	42
SUCKERS . . . . .	22	167	189	261	683	944	1,212	1,084	2,296
SUNFISH . . . . .	-	(1)	(1)	-	57	57	12	273	285
TULLIBEE . . . . .	12	86	98	2,223	326	2,549	2,223	326	2,549
WHITE BASS . . . . .	-	-	-	-	27	27	1,542	1,833	3,375
WHITEFISH . . . . .	-	-	-	-	-	-	-	-	-
WINDOMINE . . . . .	25	39	64	36	138	174	1,423	1,044	2,467
WOODOMINE . . . . .	-	-	-	-	-	-	62	70	132
WHITE PERCH . . . . .	-	-	-	-	-	-	3	271	274
YELLOW PERCH . . . . .	(1)	2	2	12	30	42	8,303	9,353	17,656
YELLOW PIKE . . . . .	6	61	67	223	968	1,211	905	2,263	3,168
UNCLASSIFIED, FOR ANIMAL FOOD . . . . .	-	5	5	-	118	118	-	1,052	1,052
TOTAL . . . . .	91	614	705	3,128	3,877	7,005	56,687	37,922	94,609

1/ LESS THAN 500 POUNDS.

2/ COMMERCIAL FISHING IS ILLEGAL IN THE U.S. WATERS OF LAKE ST. CLAIR. FISH FROM THIS LAKE WERE TAKEN UNDER THE MICHIGAN DEPARTMENT OF CONSERVATION'S ROUGH FISH REMOVAL PROGRAM.

NOTE:--IN CANADA THE CATCH OF CRAPPIES HAS BEEN INCLUDED WITH ROCK BASS.

## SUMMARY OF U. S. CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

STATE	TOTAL	
	QUANTITY	VALUE
NEW YORK . . . . .	446	90
PENNSYLVANIA . . . . .	917	91
OHIO . . . . .	11,230	1,008
MICHIGAN . . . . .	19,769	2,522
INDIANA . . . . .	11	2
ILLINOIS . . . . .	645	112
WISCONSIN . . . . .	18,570	1,505
MINNESOTA . . . . .	5,199	242
TOTAL . . . . .	56,687	5,572

# GREAT LAKES FISHERIES SECTIONAL SUMMARIES

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## SUMMARY OF U. S. OPERATING UNITS AND FISHING EFFORT, BY LAKES, 1964

ITEM	LAKE ONTARIO	LAKE ERIE	LAKE HURON	LAKE MICHIGAN	LAKE SUPERIOR	INTER- NATIONAL LAKES	TOTAL, EXCLU- SIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:							
ON VESSELS:							
REGULAR. . . . .	3	12	15	108	30	-	177
PART-TIME. . . . .	-	92	56	162	94	4	397
CASUAL. . . . .	-	72	63	112	64	-	262
ON BOATS AND SHORE:							
REGULAR. . . . .	-	4	7	9	15	-	35
PART-TIME. . . . .	3	108	91	126	108	42	478
CASUAL. . . . .	42	308	172	422	229	11	1,184
TOTAL FISHERMEN . . . . .	48	596	404	939	540	57	2,533
VESSELS, MOTOR:							
REGULAR. . . . .	1	4	5	36	10	-	59
PART-TIME. . . . .	-	45	27	79	47	2	197
CASUAL. . . . .	-	35	30	56	32	-	130
TOTAL VESSELS . . . . .	1	84	62	171	89	2	1/ 386
TOTAL GROSS TONNAGE . . . . .	10	1,077	1,050	3,780	1,464	49	7,099
BOATS:							
MOTOR:							
REGULAR. . . . .	-	1	3	3	5	-	12
PART-TIME. . . . .	1	47	42	61	54	20	225
CASUAL. . . . .	24	206	118	305	191	8	852
TOTAL MOTOR BOATS . . . . .	25	254	163	369	250	28	1,089
OTHER:							
REGULAR. . . . .	-	1	-	-	-	-	1
PART-TIME. . . . .	-	19	2	1	-	-	22
CASUAL. . . . .	1	44	13	8	-	-	66
TOTAL OTHER BOATS . . . . .	1	64	15	9	-	-	89
DAY'S OPERATED:							
FISHERMEN:							
ON VESSELS . . . . .	507	12,129	9,700	41,876	16,577	568	81,377
ON BOATS AND SHORE . . . . .	908	16,251	12,065	18,915	17,114	4,746	69,999
TOTAL FISHERMEN DAYS. . . . .	1,415	29,380	21,765	60,791	33,691	5,334	151,376
CRAFT:							
VESSELS. . . . .	169	5,748	4,365	17,516	7,336	294	35,428
BOATS, MOTOR . . . . .	466	7,687	6,357	11,112	9,551	2,495	37,870
TOTAL CRAFT DAYS. . . . .	637	13,635	10,722	28,628	16,887	2,789	73,298
FISHING EFFORT:							
LIFTS:							
POND NETS . . . . .	-	-	393	2,965	2,029	34	5,421
TRAP NETS . . . . .	1,333	25,538	11,130	1,963	1,552	1,334	43,850
FYKE AND HOOP NETS . . . . .	573	531	396	13,733	3	152	15,386
LIFTS PER 1,000 LINEAR YARDS:							
HAUL SEINES. . . . .	2	3,266	175	142	-	-	3,585
GILL NETS:							
1-1/4 - 2 INCH MESH. . . . .	1	12	40	71	684	-	808
2-1/8 - 3-7/8 INCH MESH. . . . .	297	7,974	15,622	47,400	16,887	-	88,180
4 - 7 INCH MESH. . . . .	523	1,904	1,235	11,810	7,502	2,095	25,069
7-1/8 - 14 INCH MESH . . . . .	1	31	1,027	185	-	-	1,244
LIFTS PER 1,000 HOOKS, LINES, LONG OR SET. . . . .	-	1,342	1,483	15	-	-	2,840
HOURS TRAWLED. . . . .	-	722	-	9,250	-	1,468	11,440
DAYS FISHED:							
LINES, HAND. . . . .	-	-	-	-	15	-	15
DIP NETS . . . . .	-	34	-	-	8	-	42

1/ EXCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.

NOTE:--THE NUMBER OF DAYS INDICATES THAT FISHING OCCURRED REGARDLESS OF THE AMOUNT OF TIME FISHED DURING A DAY. THE NUMBER OF FISHERMEN AND CRAFT OPERATING AS REGULAR, PART-TIME, AND CASUAL IS BASED ON DAYS OF OPERATION AS FOLLOWS: REGULAR--MORE THAN 161 DAYS, PART-TIME 54 TO 161 DAYS (INCLUSIVE), AND CASUAL--LESS THAN 54 DAYS.

## GREAT LAKES FISHERIES

SUMMARY OF U. S. OPERATING UNITS AND  
FISHING EFFORT, BY STATES, 1964

ITEM	NEW YORK	PENNSYL-VANIA	OHIO	MICHIGAN	INDIANA	ILLINOIS	WISCONSIN	MINNESOTA	TOTAL, EXCLU-SIVE OF DUPLI-CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:									
ON VESSELS:									
REGULAR . . . . .	6	-	6	77	-	3	72	-	177
PART-TIME . . . . .	6	20	62	220	-	7	96	10	397
CASUAL . . . . .	6	6	63	161	-	3	87	-	252
ON BOATS AND SHORE:									
REGULAR . . . . .	-	-	4	10	-	3	6	12	35
PART-TIME . . . . .	3	2	102	189	-	-	74	108	478
CASUAL . . . . .	46	4	271	594	3	2	205	59	1,164
TOTAL FISHERMEN . . . . .	67	32	508	1,251	3	18	540	189	2,533
VESSELS, MOTOR:									
REGULAR . . . . .	2	-	2	26	-	1	24	-	59
PART-TIME . . . . .	3	9	30	108	-	3	46	5	197
CASUAL . . . . .	3	3	30	79	-	1	43	-	130
TOTAL VESSELS . . . . .	8	12	62	213	-	5	113	5	1/ 386
TOTAL GROSS TONNAGE	103	157	816	3,956	-	137	2,442	93	7,099
BOATS:									
MOTOR:									
REGULAR . . . . .	-	-	1	4	-	1	2	4	12
PART-TIME . . . . .	1	1	44	91	-	-	35	53	225
CASUAL . . . . .	28	4	185	449	3	2	128	53	852
TOTAL MOTOR BOATS . . . . .	29	5	230	544	3	3	165	110	1,089
OTHER:									
REGULAR . . . . .	-	-	1	-	-	-	-	-	1
PART-TIME . . . . .	-	-	17	4	-	-	-	-	22
CASUAL . . . . .	1	-	38	20	-	-	1	-	66
TOTAL OTHER BOATS . . . . .	1	-	56	24	-	-	8	-	89
DAYS OPERATED:									
FISHERMEN:									
ON VESSELS . . . . .	2,105	2,096	7,464	39,698	-	1,223	27,770	1,020	81,377
ON BOATS AND SHORE . . . . .	941	327	14,919	27,517	39	520	11,561	14,175	69,999
TOTAL FISHERMEN DAYS . . . . .	3,047	2,423	22,383	67,215	39	1,743	39,331	15,195	151,376
CRAFT:									
VESSELS . . . . .	786	1,048	3,598	17,682	-	503	11,301	510	35,428
BOATS, MOTOR . . . . .	501	208	7,294	15,695	39	186	6,705	7,242	37,870
TOTAL CRAFT DAYS . . . . .	1,287	1,256	10,892	33,377	39	689	18,006	7,752	73,298
FISHING EFFORT:									
LIFTS:									
POUND NETS . . . . .	-	-	3,509	-	-	1,561	-	351	5,421
TRAP NETS . . . . .	1,333	-	23,556	17,627	-	-	-	1,334	43,850
FYKE AND HOOP NETS . . . . .	573	-	349	797	-	-	13,517	152	15,388
LIFTS PER 1,000 LINEAR YARDS:									
HARVEY SEINES . . . . .	2	-	3,117	326	-	-	140	-	3,585
GILL NETS:									
1-1/4 - 2 INCH MESH . . . . .	1	-	12	707	-	-	88	-	808
2-1/8 - 3-7/8 INCH MESH . . . . .	1,712	4,190	2,366	46,672	12	2,608	27,801	2,819	88,180
4 - 7 INCH MESH . . . . .	1,126	223	1,078	15,024	-	-	5,523	2,095	25,069
7-1/8 - 14 INCH MESH . . . . .	1	-	31	1,087	-	-	125	-	1,244
LIFTS PER 1,000 HOOKS, LINES, LONG OR SET . . . . .	-	-	1,342	1,498	-	-	-	-	2,840
HOURS TRAWLED . . . . .	-	722	-	1,710	-	-	7,540	1,468	11,440
DAYS FISHED:									
LINES, HAND . . . . .	-	-	-	15	-	-	-	-	15
DIP NETS . . . . .	-	-	34	-	-	-	8	-	42

1/ EXCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.  
SEE NOTE ON PAGE 329.

# GREAT LAKES FISHERIES

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## SUMMARY OF U. S. OPERATING UNITS AND FISHING EFFORT, BY STATES AND LAKES, 1964

ITEM	NEW YORK		PENN-SYLVANIA	OHIO	MICHIGAN			
	LAKE ONTARIO	LAKE ERIE	LAKE ERIE	LAKE ERIE	LAKE ERIE	LAKE HURON	LAKE MICHIGAN	LAKE SUPERIOR
FISHERMEN: ON VESSELS:								
REGULAR . . . . .	3	3	-	6	-	15	24	30
PART-TIME . . . . .	-	6	20	62	10	56	97	65
CASUAL . . . . .	-	6	6	63	8	63	84	34
ON BOATS AND SHORE:								
REGULAR . . . . .	-	-	-	4	-	7	-	3
PART-TIME . . . . .	3	-	2	102	4	91	54	40
CASUAL . . . . .	42	4	4	271	29	172	250	143
TOTAL FISHERMEN . . . . .	48	19	32	508	51	404	509	318
VESSELS, MOTOR:								
REGULAR . . . . .	1	1	-	2	-	5	8	10
PART-TIME . . . . .	-	3	9	30	5	27	46	34
CASUAL . . . . .	-	3	3	30	4	30	41	17
TOTAL VESSELS . . . . .	1	7	12	62	9	62	95	61
TOTAL GROSS TONNAGE . . . . .	10	93	157	816	92	1,050	2,024	999
BOATS:								
MOTOR:								
REGULAR . . . . .	-	-	-	1	-	3	-	1
PART-TIME . . . . .	1	-	1	44	2	42	27	20
CASUAL . . . . .	24	4	4	185	13	118	191	127
TOTAL MOTOR BOATS . . . . .	25	4	5	230	15	163	218	148
OTHER:								
REGULAR . . . . .	-	-	-	1	-	-	-	-
PART-TIME . . . . .	-	-	-	17	2	2	-	-
CASUAL . . . . .	1	-	-	38	6	13	1	-
TOTAL OTHER BOATS . . . . .	1	-	-	56	8	15	1	-
DAYS OPERATED:								
FISHERMEN:								
ON VESSELS . . . . .	507	1,599	2,096	7,464	970	9,700	15,847	13,181
ON BOATS AND SHORE . . . . .	908	33	327	14,919	972	12,065	7,662	6,818
TOTAL FISHERMEN DAYS . . . . .	1,415	1,632	2,423	22,383	1,942	21,765	23,509	19,999
CRAFT:								
VESSELS:								
BOATS, MOTOR . . . . .	169	617	1,048	3,598	485	4,365	7,194	5,638
	468	33	208	7,294	352	6,357	4,767	4,219
TOTAL CRAFT DAYS . . . . .	637	650	1,256	10,892	837	10,722	11,961	9,857
FISHING EFFORT:								
LIFTS:								
POUND NETS . . . . .	-	-	-	-	-	-	-	-
TRAP NETS . . . . .	1,333	-	-	23,556	2,982	393	2,004	1,112
FYKE AND HOOP NETS . . . . .	573	-	-	349	182	11,130	1,963	1,552
LIFTS PER 1,000 LINEAR YARDS:								
HAUL SEINES . . . . .	2	-	-	3,117	149	175	2	3
GILL NETS:								
1-1/4 - 2 INCH MESH . . . . .	1	-	-	12	-	40	25	642
2-1/8 - 3-1/8 INCH MESH . . . . .	297	1,415	4,190	2,366	3	15,622	18,013	12,134
4-1/2 INCH MESH . . . . .	523	503	223	1,078	-	1,235	7,954	5,835
7-1/8 - 14 INCH MESH . . . . .	1	-	-	31	-	1,027	60	-
LIFTS PER 1,000 HOOKS,								
LINES, LONG OR SET . . . . .	-	-	-	1,342	-	1,462	15	-
HOURS TRAWLED:								
DAYS FISHED:								
LINES, HAND . . . . .	-	-	-	-	-	-	15	-
DIP NETS . . . . .	-	-	-	34	-	-	-	-

(CONTINUED ON NEXT PAGE)

## GREAT LAKES FISHERIES

SUMMARY OF U. S. OPERATING UNITS AND FISHING EFFORT,  
BY STATES AND LAKES, 1964 - Continued

ITEM	INDIANA	ILLINOIS	WISCONSIN		MINNESOTA	
	LAKE MICHIGAN	LAKE MICHIGAN	LAKE MICHIGAN	LAKE SUPERIOR	LAKE SUPERIOR	INTER- NATIONAL LAKES
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN: ON VESSELS:						
REGULAR . . . . .	-	3	72	-	-	4
PART-TIME . . . . .	-	7	76	20	5	-
CASUAL. . . . .	-	3	55	32	-	-
ON BOATS AND SHORE:						
REGULAR . . . . .	-	3	6	-	12	-
PART-TIME . . . . .	-	72	2	66	42	-
CASUAL. . . . .	3	2	167	36	48	11
TOTAL FISHERMEN. . . . .	3	18	448	92	132	57
VESSELS, MOTOR:						
REGULAR . . . . .	-	1	24	-	-	-
PART-TIME . . . . .	-	3	36	10	3	2
CASUAL. . . . .	-	1	27	16	-	-
TOTAL VESSELS. . . . .	-	5	67	26	3	2
TOTAL GROSS TONNAGE. . . . .	-	137	2,005	437	44	49
BOATS:						
MOTOR:						
REGULAR . . . . .	-	1	2	-	4	-
PART-TIME . . . . .	-	2	34	1	33	20
CASUAL. . . . .	3	109	19	45	45	8
TOTAL MOTOR BOATS. . . . .	3	3	145	20	82	28
OTHER:						
PART-TIME . . . . .	-	-	1	-	-	-
CASUAL. . . . .	-	-	7	-	-	-
TOTAL OTHER BOATS. . . . .	-	-	8	-	-	-
DAYS OPERATED:						
FISHERMEN:						
ON VESSELS. . . . .	-	1,223	24,806	2,964	432	568
ON BOATS AND SHORE. . . . .	39	520	10,694	867	9,429	4,745
TOTAL FISHERMEN DAYS . . . . .	39	1,743	35,500	3,831	9,861	5,334
CRAFT:						
VESSELS . . . . .	-	503	9,819	1,482	216	294
BOATS, MOTOR. . . . .	39	186	6,120	585	4,747	2,495
TOTAL CRAFT DAYS . . . . .	39	689	15,939	2,067	4,963	2,789
FISHING EFFORT:						
LIFTS:						
POUND NETS. . . . .	-	-	961	600	317	34
TRAP NETS. . . . .	-	-	-	-	-	1,334
FYKE AND HOOP NETS. . . . .	-	-	13,517	-	-	152
LIFTS PER 1,000 LINEAR YARDS:						
HAUL SEINES . . . . .	-	-	140	-	-	-
GILL NETS:						
1-1/4 - 2 INCH MESH . . . . .	-	-	46	42	-	-
2-1/8 - 3-7/8 INCH MESH . . . . .	12	2,608	25,867	1,934	2,819	-
4-1/2 INCH MESH . . . . .	-	-	3,856	1,667	-	2,095
7-1/8 - 14 INCH MESH. . . . .	-	-	25	-	-	-
HOURS TRAWLED, DIP' NETS . . . . .	-	-	7,540	-	-	1,468
DAY'S FISHED, DIP' NETS . . . . .	-	-	-	8	-	-

SEE NOTE ON PAGE 329.

# GREAT LAKES FISHERIES

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## CATCH BY STATES, 1964

SPECIES	NEW YORK		PENNSYLVANIA		OHIO	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	{1}	(1)	-	-	-	-
BLUE PIKE . . . . .	{1}	\$2	-	\$5	100	\$27
BOWFIN . . . . .	1,600	94	-	-	-	-
BUFFALOFISH . . . . .	-	-	-	-	95,200	12,086
BULLHEADS . . . . .	44,500	12,008	-	-	122,200	12,222
BURBOT . . . . .	400	19	200	3	3,200	158
CARP . . . . .	39,100	1,174	{1}	(1)	2,273,700	61,388
CATFISH . . . . .	1,300	217	1,000	210	1,114,600	303,182
CISCO . . . . .	8,100	2,338	200	58	500	154
CRAPPIE . . . . .	700	74	-	-	-	-
EELS, COMMON . . . . .	32,700	6,550	-	-	-	-
GOLDFISH . . . . .	{1}	(1)	-	-	9,600	362
GIZZARD SHAD . . . . .	-	-	-	-	158,700	4,286
GOLDFISH . . . . .	-	-	-	-	200	6
MOONEYE OR GOLDENEYE . . . . .	-	-	-	-	-	-
PIKE OR PICKEREL . . . . .	100	6	-	-	-	-
QUILLBACK . . . . .	-	-	{1}	1	100	4
ROCK BASS . . . . .	3,600	288	-	-	-	-
SAUGER . . . . .	-	-	-	-	(1)	5
SHEEPSHEAD . . . . .	1,000	39	25,700	513	4,422,900	75,190
SMELT . . . . .	600	69	445,000	22,626	1,300	52
STURGEON . . . . .	-	76	100	72	500	667
SUCKERS . . . . .	13,800	1,000	1,500	43	183,400	8,605
TROUT . . . . .	14,000	1,291	-	-	-	-
WHITE BASS . . . . .	12,900	1,782	10,800	1,425	1,415,100	236,313
WHITEFISH, COMMON . . . . .	16,500	9,082	2,000	939	800	485
WHITEFISH, COMMON . . . . .	3,500	418	-	-	-	-
YELLOW PERCH . . . . .	167,400	23,478	312,700	60,032	1,086,100	158,570
YELLOW PIKE . . . . .	86,400	29,540	17,400	5,479	341,900	134,241
TOTAL . . . . .	446,200	89,625	816,600	91,406	11,230,400	1,006,203

SPECIES	MICHIGAN		INDIANA		ILLINOIS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	3,331,200	\$50,639	{1}	\$1	3,400	\$51
BOWFIN . . . . .	200	11	-	-	-	-
BUFFALOFISH . . . . .	25,600	2,867	-	-	-	-
BULLHEADS . . . . .	12,300	1,651	-	-	-	-
BURBOT . . . . .	-	500	13	-	-	-
CARP . . . . .	1,661,300	61,282	-	-	-	-
CATFISH . . . . .	200,000	54,717	-	-	-	-
CHUB . . . . .	3,010,100	512,669	-	-	21,800	4,741
CRAPPIE . . . . .	-	900	216	-	-	-
GIZZARD SHAD . . . . .	1,900	43	-	-	-	-
LAKE HERRING . . . . .	4,723,600	278,464	-	-	1,400	162
LAKE TROUT . . . . .	63,900	42,508	-	-	-	-
PIKE OR PICKEREL . . . . .	45,400	14,880	-	-	-	-
QUILLBACK . . . . .	-	9,000	319	-	-	-
ROCK BASS . . . . .	-	9,200	1,601	-	-	-
SAUGER . . . . .	-	500	74	-	-	-
SHEEPSHEAD . . . . .	121,300	3,623	-	-	-	-
SMELT . . . . .	1,290,100	66,531	-	-	-	-
STURGEON . . . . .	3,700	295	-	-	-	-
SUCKERS . . . . .	546,900	24,396	{1}	1	-	-
WHITE BASS . . . . .	103,300	14,584	-	-	-	-
WHITEFISH, COMMON . . . . .	1,097,800	673,995	-	-	-	-
MENOMINEE . . . . .	21,600	4,829	-	-	-	-
YELLOW PERCH . . . . .	3,255,900	616,526	11,300	1,949	618,000	106,910
YELLOW PIKE . . . . .	230,300	92,110	-	-	-	-
TOTAL . . . . .	19,769,300	2,522,043	11,300	1,951	644,600	111,664

SPECIES	WISCONSIN		MINNESOTA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	8,410,200	\$168,203	-	-	11,744,600	\$218,894
BLUE PIKE . . . . .	{1}	(1)	-	-	100	34
BOWFIN . . . . .	-	-	{1}	(1)	1,800	105
BUFFALOFISH . . . . .	-	-	{1}	(1)	120,800	14,953
BULLHEADS . . . . .	31,600	2,532	1,700	\$76	212,300	29,489
BURBOT . . . . .	21,000	1,054	213,100	12,036	238,400	13,283
CARP . . . . .	1,305,900	26,118	-	-	5,280,000	149,962
CATFISH . . . . .	100	28	-	-	1,317,600	358,354

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

## GREAT LAKES FISHERIES

## CATCH BY STATES, 1964 - Continued

SPECIES	WISCONSIN		MINNESOTA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CHUBS . . . . .	4,135,700	\$634,770	50,100	\$5,000	7,217,700	\$1,157,380
CISCO . . . . .	-	-	-	-	8,800	2,550
CRAPPIE . . . . .	-	-	-	-	1,600	290
EELS, COMMON . . . . .	-	-	-	-	32,700	6,550
GARLIC SHAD . . . . .	-	-	-	-	(1)	(1)
GIZZARD SHAD . . . . .	-	-	-	-	11,500	405
GOLDFISH . . . . .	-	-	-	-	158,700	4,286
LAKE HERRING . . . . .	553,200	23,329	982,600	68,700	6,260,800	370,655
LAKE TROUT . . . . .	37,900	24,645	-	-	101,800	67,153
MONEYEYE OR GOLDEYE . . . . .	-	-	100	2	300	8
PIKE OR PICKEREL . . . . .	27,600	3,310	82,000	3,296	155,100	21,492
QUILLBACK . . . . .	-	-	(1)	(1)	9,100	324
ROCK BASS . . . . .	-	-	-	-	12,800	1,889
SAUGER . . . . .	-	-	68,500	5,800	69,000	5,879
SCULPIN . . . . .	2,400	49	-	-	2,400	49
SHEEPSHEAD . . . . .	-	-	-	-	4,570,900	79,365
SMELT . . . . .	686,000	27,437	1,044,700	20,900	3,487,000	137,615
STURGEON . . . . .	-	-	-	-	4,700	40
SUCKERS . . . . .	203,000	8,119	261,600	5,538	1,212,200	47,982
SUNFISH . . . . .	-	-	-	-	11,700	1,291
TULLIBEE . . . . .	-	-	2,223,200	66,690	2,223,200	66,690
WHITE BASS . . . . .	-	-	-	-	1,542,100	254,104
WHITEFISH: COMMON . . . . .	270,000	148,512	36,200	8,405	1,423,300	841,418
MENOMINEE . . . . .	39,500	8,301	1,100	150	62,200	13,280
WHITE PERCH . . . . .	-	-	-	-	3,500	418
YELLOW PERCH . . . . .	2,839,600	425,940	11,600	904	8,302,600	1,394,305
YELLOW PIKE . . . . .	5,100	2,454	222,500	44,921	904,600	308,745
TOTAL . . . . .	18,569,800	1,504,801	5,199,000	242,418	56,687,200	5,572,311

1/ LESS THAN 50 POUNDS OR 50 CENTS.

## CATCH BY LAKES AND STATES, 1964

SPECIES	LAKE ONTARIO		LAKE ERIE		PENNSYLVANIA	
	NEW YORK		NEW YORK		PENNSYLVANIA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	(1)	(1)	(1)	-	(1)	-
BLUE PIKE . . . . .	-	-	-	-	-	\$5
BOWFIN . . . . .	1,600	\$94	-	-	-	-
BULLHEADS . . . . .	44,500	12,008	-	-	-	-
BURBOT . . . . .	400	19	-	-	200	3
CARP . . . . .	39,100	1,174	(1)	(1)	(1)	(1)
CATFISH . . . . .	800	112	500	105	1,000	210
CISCO . . . . .	8,100	2,335	(1)	3	200	58
CRAPPIE . . . . .	700	74	-	-	-	-
EELS, COMMON . . . . .	32,700	6,550	-	-	-	-
GARLIC SHAD . . . . .	(1)	(1)	-	-	-	-
PIKE OR PICKEREL . . . . .	100	6	-	-	(1)	1
QUILLBACK . . . . .	-	-	-	-	-	-
ROCK BASS . . . . .	3,600	288	-	-	-	-
SHEEPSHEAD . . . . .	(1)	1	1,000	36	25,700	513
SMELT . . . . .	500	53	300	16	445,000	22,626
STURGEON . . . . .	100	76	-	-	100	72
SUCKERS . . . . .	13,400	1,072	400	8	1,500	43
SUNFISH . . . . .	11,700	1,291	-	-	-	-
WHITE BASS . . . . .	3,600	474	9,300	1,308	10,800	1,425
WHITEFISH, COMMON . . . . .	18,500	9,797	(1)	3	2,000	939
WHITE PERCH . . . . .	2,000	418	-	-	-	-
YELLOW PERCH . . . . .	89,200	7,490	84,200	15,988	312,700	60,032
YELLOW PIKE . . . . .	5,500	1,016	83,900	28,524	17,400	5,479
TOTAL . . . . .	266,600	43,630	179,600	45,995	816,600	91,406

SPECIES	LAKE ERIE - CONTINUED					
	OHIO		MICHIGAN		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUE PIKE . . . . .	100	\$27	-	-	100	\$34
BUFFALOFISH . . . . .	95,200	12,086	25,600	\$2,686	120,800	14,952
BULLHEADS . . . . .	122,200	12,222	4,600	677	125,800	12,699
BURBOT . . . . .	3,200	158	-	-	3,400	161
CARP . . . . .	2,273,700	61,368	635,700	17,164	2,909,400	78,552
CATFISH . . . . .	1,114,600	303,182	47,700	12,737	1,163,800	316,234

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GREAT LAKES FISHERIES

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## CATCH BY LAKES AND STATES, 1964 - Continued

SPECIES	LAKE ERIE - CONTINUED					
	OHIO		MICHIGAN		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CISCO . . . . .	500	\$154	-	-	700	\$215
GIZZARD SHAD . . . . .	9,600	362	1,900	\$43	11,500	405
GOLDFISH . . . . .	158,700	4,286	-	-	158,700	4,286
MOONEYE OR GOLDEYE . . . . .	200	6	-	-	200	6
QUILLBACK . . . . .	100	4	-	-	100	5
ROCK BASS . . . . .	-	-	(1)	1	(1)	1
SAUGER . . . . .	(1)	5	-	-	(1)	5
SHEEPSHEAD . . . . .	4,422,900	75,190	99,700	2,875	4,549,300	78,516
STURGEON . . . . .	1,300	52	-	-	446,000	22,594
SUCKERS . . . . .	-	667	-	-	900	739
WHITE BASS . . . . .	163,400	8,805	54,400	1,371	239,700	10,227
WHITEFISH, COMMON . . . . .	1,415,100	236,313	99,900	13,964	1,535,100	252,010
YELLOW PERCH . . . . .	800	485	-	-	2,800	1,427
YELLOW PIKE . . . . .	1,086,100	158,570	36,700	6,490	1,519,700	241,080
	341,900	134,241	121,500	47,985	564,700	216,229
TOTAL . . . . .	11,230,400	1,008,203	1,127,700	106,173	13,354,300	1,251,777

SPECIES	LAKE HURON			LAKE MICHIGAN		
	MICHIGAN		MICHIGAN	INDIANA		
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	1,200	\$21	3,329,700	\$50,611	(1)	\$1
BOWFIN . . . . .	200	11	-	-	-	-
BULLALOFLISH . . . . .	(1)	1	-	-	-	-
BULLHEADS . . . . .	7,700	973	(1)	1	-	-
BURBOT . . . . .	-	-	(1)	3	-	-
CARP . . . . .	1,003,000	43,310	14,300	475	-	-
CATFISH . . . . .	153,100	41,976	(1)	4	-	-
CHUBS . . . . .	1,256,200	242,865	1,357,300	224,333	-	-
CRAPPIE . . . . .	900	216	-	-	-	-
GIZZARD SHAD . . . . .	-	-	(1)	(1)	-	-
LAKE HERRING . . . . .	39,800	5,928	19,700	2,314	-	-
LAKE TROUT . . . . .	-	-	100	42	-	-
PIKE OR PICKEREL . . . . .	35,900	12,739	9,400	2,127	-	-
ROCK BASS . . . . .	9,000	319	-	-	-	-
SAUGER . . . . .	9,200	1,598	(1)	2	-	-
SHEEPSHEAD . . . . .	100	20	400	39	-	-
SMELT . . . . .	21,600	747	(1)	1	-	-
STURGEON . . . . .	32,000	16,222	802,000	23,249	-	-
SUCKERS . . . . .	400	429	3,200	2,806	-	-
WHITE BASS . . . . .	437,500	20,870	38,000	1,513	(1)	1
WHITEFISH, COMMON . . . . .	3,400	620	-	-	-	-
MENOMINEE . . . . .	165,300	89,137	584,100	414,576	-	-
YELLOW PERCH . . . . .	2,500	560	9,100	2,086	-	-
YELLOW PIKE . . . . .	836,200	167,656	2,365,200	439,397	11,300	1,949
	79,300	32,134	29,200	11,894	-	-
TOTAL . . . . .	4,094,500	678,352	8,562,700	1,175,473	11,300	1,951

SPECIES	LAKE MICHIGAN - CONTINUED					
	ILLINOIS		WISCONSIN		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	3,400	\$51	8,410,200	\$169,202	11,743,300	\$218,665
BOWFIN . . . . .	-	-	(1)	(1)	(1)	(1)
BULLHEADS . . . . .	-	-	31,600	2,531	31,600	2,532
BURBOT . . . . .	-	-	14,500	727	14,500	730
CARP . . . . .	-	-	1,305,200	26,104	1,319,500	26,579
CATFISH . . . . .	-	-	100	28	100	32
CHUBS . . . . .	21,800	4,741	3,793,000	560,349	5,172,100	789,423
GIZZARD SHAD . . . . .	-	-	-	-	-	-
LAKE HERRING . . . . .	1,400	162	13,400	1,736	34,500	4,212
LAKE TROUT . . . . .	-	-	100	76	200	118
PIKE OR PICKEREL . . . . .	-	-	27,600	3,309	37,000	5,436
ROCK BASS . . . . .	-	-	-	-	(1)	2
SAUGER . . . . .	-	-	-	-	400	39
SCULPIN . . . . .	-	-	2,400	49	2,400	49
SHEEPSHEAD . . . . .	-	-	-	-	(1)	1
SMELT . . . . .	-	-	166,600	6,662	968,600	29,911
STURGEON . . . . .	-	-	-	-	3,200	2,806
SUCKERS . . . . .	-	-	176,900	7,076	214,900	8,590
WHITEFISH, COMMON . . . . .	-	-	192,000	106,112	777,000	520,688
MENOMINEE . . . . .	-	-	2,400	509	11,500	2,595
YELLOW PERCH . . . . .	618,000	106,910	2,839,500	425,924	5,835,000	974,180
YELLOW PIKE . . . . .	-	-	6,100	2,452	35,300	14,346
TOTAL . . . . .	644,600	111,864	16,982,500	1,311,846	26,201,100	2,601,134

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GREAT LAKES FISHERIES

## CATCH BY LAKES AND STATES, 1964 - Continued

SPECIES	LAKE SUPERIOR							
	MICHIGAN		WISCONSIN		MINNESOTA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	300	\$7	{1}	\$1	-	-	300	\$8
BULLHEADS . . . . .	-	-	{1}	1	-	-	{1}	1
BURBOT . . . . .	500	10	6,500	327	{1}	{1}	7,000	337
CARP . . . . .	{1}	2	700	14	-	-	700	16
CHUBS . . . . .	398,600	45,671	342,700	74,421	50,100	\$5,000	789,400	126,092
LAKE HERRING . . . . .	4,664,100	270,222	539,800	21,593	982,600	68,700	6,186,500	360,515
LAKE TROUT . . . . .	63,800	42,466	37,800	24,559	-	-	101,600	67,035
PIKE OR PICKEREL . . . . .	100	14	{1}	1	-	-	100	15
SAUGER . . . . .	{1}	15	-	-	-	-	{1}	15
SHEEPSHEAD . . . . .	456,100	27,060	519,400	20,775	1,044,700	20,900	2,020,200	68,735
SURGEON . . . . .	100	60	-	-	-	-	100	60
SUCKERS . . . . .	19,000	642	26,100	1,043	-	200	45,300	1,693
WHITEFISH . . . . .	-	-	-	-	-	-	-	-
COMMON . . . . .	348,400	170,282	77,100	42,400	{1}	1	425,500	212,683
MENOMINEE . . . . .	10,000	2,183	37,100	7,792	1,100	150	48,200	10,125
YELLOW PERCH . . . . .	16,500	2,983	100	16	-	-	16,900	2,999
YELLOW PIKE . . . . .	300	97	{1}	2	-	-	300	99
TOTAL . . . . .	5,976,100	561,714	1,587,300	192,955	2,078,700	94,759	9,642,100	849,428

SPECIES	LAKE ST. CLAIR		LAKE OF THE WOODS		NAMAKAN LAKE	
	MICHIGAN		MINNESOTA		MINNESOTA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH . . . . .	-	-	{1}	{1}	-	-
BULLHEADS . . . . .	-	-	1,700	\$76	-	-
BURBOT . . . . .	-	-	168,600	11,300	4,100	\$124
CARP . . . . .	8,300	\$331	-	-	-	-
MOONEYE OR GOLDEYE . . . . .	-	-	76,100	3,000	-	-
PIKE OR PICKEREL . . . . .	-	-	{1}	{1}	-	-
QUILLBACK . . . . .	-	-	68,500	5,600	-	-
SAUGER . . . . .	-	-	231,300	4,620	8,000	241
SUCKERS . . . . .	-	-	2,203,500	66,100	7,500	224
TULLIBEE . . . . .	-	-	2,203,500	20	11,000	2,609
WHITEFISH, COMMON . . . . .	-	-	11,600	900	-	-
YELLOW PERCH . . . . .	-	-	217,000	43,400	-	-
TOTAL . . . . .	8,300	331	2,998,500	135,218	30,600	3,198

SPECIES	RAINY LAKE		TOTAL, ALL LAKES	
	MINNESOTA			
	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	-	-	11,744,800	\$218,694
BLUE PIKE . . . . .	-	-	100	34
BOWFIN . . . . .	-	-	1,800	105
BUFFALOFISH . . . . .	-	-	120,800	14,953
BULLHEADS . . . . .	-	-	212,300	28,489
BURBOT . . . . .	20,400	\$612	236,400	13,283
CARP . . . . .	-	-	5,260,000	149,962
CATFISH . . . . .	-	-	1,317,800	358,354
CHUBS . . . . .	-	-	7,217,700	1,157,380
CISCO . . . . .	-	-	8,600	2,550
CRAPPIE . . . . .	-	-	8,600	290
EELS, COMMON . . . . .	-	-	32,700	6,550
GARFISH . . . . .	-	-	{1}	{1}
GIZZARD SHAD . . . . .	-	-	11,500	405
GOLDFISH . . . . .	-	-	158,700	4,286
LAKE HERRING . . . . .	-	-	6,260,800	370,655
LAKE TROUT . . . . .	-	-	101,800	67,153
MOONEYE OR GOLDEYE . . . . .	-	-	300	8
PIKE OR PICKEREL . . . . .	5,900	296	155,100	21,492
QUILLBACK . . . . .	-	-	9,100	324
ROCK BASS . . . . .	-	-	12,600	1,689
SAUGER . . . . .	-	-	6,000	5,879
SCULPIN . . . . .	-	-	2,400	49
SHEEPSHEAD . . . . .	-	-	4,570,900	79,365
SMELT . . . . .	-	-	3,467,900	137,615
STURGEON . . . . .	-	-	4,700	4,110
SUCKERS . . . . .	22,100	669	1,212,200	47,982
SUNFISH . . . . .	-	-	11,700	1,291
TULLIBEE . . . . .	12,200	366	2,223,200	66,690
WHITEFISH . . . . .	-	-	1,542,100	254,104
COMMON . . . . .	25,100	5,775	1,423,300	841,418
MENOMINEE . . . . .	-	-	62,200	13,280
WHITE PERCH . . . . .	-	-	3,500	418
YELLOW PERCH . . . . .	{1}	4	8,302,600	1,394,309
YELLOW PIKE . . . . .	5,500	1,521	904,600	306,745
TOTAL . . . . .	91,200	9,243	56,667,200	5,572,311

1/ LESS THAN 50 POUNDS OR 50 CENTS.

# GREAT LAKES FISHERIES

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## MANUFACTURED FISHERY PRODUCTS, 1964

ITEM		NEW YORK		PENNSYLVANIA		OHIO	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CARP, SMOKED . . . . .	POUNDS	-	-	-	-	{1}	{1}
CHUBS, SMOKED . . . . .	DO	-	-	-	-	{1}	{1}
CISCO, SMOKED . . . . .	DO	-	-	-	-	{1}	{1}
COD FILLETS, BREADED, RAW AND COOKED	DO	-	-	-	-	{1}	{1}
HADDOCK FILLETS, BREADED AND COOKED, FRESH AND DEVEINED . . . . .	DO	247,000	\$135,880	-	-	-	-
HERRING, SEA, SALTED AND PICKLED . . .	DO	{1}	{1}	-	-	{1}	{1}
LAKE TROUT FILLETS, FRESH AND FROZEN .	DO	{1}	{1}	-	-	{1}	{1}
OCEAN PERCH FILLETS, BREADED, RAW AND COOKED . . . . .	DO	(1)	(1)	-	-	(1)	(1)
POLLOCK FILLETS, BREADED AND COOKED, FROZEN . . . . .	DO	(1)	(1)	-	-	-	-
SABLEFISH, SMOKED . . . . .	DO	-	-	-	-	{1}	{1}
SALMON, SMOKED . . . . .	DO	-	-	-	-	{1}	{1}
SAUER FILLETS, FRESH AND FROZEN . . .	DO	(1)	(1)	-	-	264,400	\$229,900
SNAPPER, RED, FILLETS, FRESH AND FROZEN . . . . .	DO	-	-	-	-	-	-
WHITEBASS FILLETS, FRESH AND FROZEN . .	DO	(1)	(1)	(1)	(1)	{1}	{1}
WHITEFISH, FILLETS, FRESH AND FROZEN . . . . .	DO	{1}	{1}	(1)	(1)	81,500	66,499
SMOKED . . . . .	DO	{1}	{1}	-	-	{1}	{1}
YELLOW PERCH FILLETS: FRESH AND FROZEN . . . . .	DO	182,835	74,275	60,334	\$43,559	768,908	515,359
BREADED, FROZEN . . . . .	DO	-	-	-	-	{1}	{1}
YELLOW PIKE FILLETS, FRESH AND FROZEN	DO	284,154	194,292	(1)	(1)	305,600	271,370
SHRIMP: FRESH AND FROZEN: BREADED AND DEVEINED, COOKED . . . .	DO	-	-	-	-	(1)	(1)
BREADED . . . . .	DO	{1}	{1}	-	-	-	-
SMOKED . . . . .	DO	{1}	{1}	-	-	-	-
SCALLOPS, BREADED, RAW AND COOKED, FROZEN . . . . .	DO	(1)	(1)	-	-	-	-
OYSTERS, BREADED, FROZEN . . . . .	DO	-	-	-	-	(1)	(1)
UNCLASSIFIED: FROZEN PACKAGED, FILLETS, STICKS AND PORTIONS . . . . .	DO	306,900	200,190	-	-	33,148,395	9,838,346
CANNED . . . . .	STANDARD CASES	-	-	-	-	-	-
CURED . . . . .	POUNDS	53,087	31,092	-	-	-	-
MISCELLANEOUS . . . . .	-	-	-	4,288	-	-	239,362
TOTAL . . . . .	-	-	635,729	-	47,847	-	11,161,036
ITEM		MICHIGAN		ILLINOIS			
		QUANTITY	VALUE	QUANTITY	VALUE		
ANCHOVY PASTE, CANNED . . . . .	STANDARD CASES	(1)	{1}	(1)	{1}		
BUTTERFISH, SMOKED . . . . .	POUNDS	-	-	-	-		
CARP: FILLETS, FRESH AND FROZEN . . . . .	DO	-	-	(1)	(1)		
SMOKED . . . . .	DO	{1}	{1}	-	-		
CHUBS, SMOKED . . . . .	DO	95,250	\$45,096	497,308	\$230,039		
EELS, SMOKED . . . . .	DO	-	-	(1)	(1)		
HERRING: LAKE: FILLETS, FRESH AND FROZEN . . . . .	DO	30,750	7,758	-	-		
SALTED . . . . .	DO	{1}	{1}	-	-		
SMOKED . . . . .	DO	5,865	2,118	(1)	(1)		
SEA, SALTED AND PICKLED . . . . .	DO	(1)	(1)	6,733,997	3,128,432		
LAKE TROUT: FILLETS, FRESH AND FROZEN . . . . .	DO	17,820	15,429	(1)	(1)		
SMOKED . . . . .	DO	5,000	4,134	(1)	(1)		
MACKEREL, ATLANTIC, SALTED . . . . .	DO	-	-	(1)	(1)		
OCEAN PERCH FILLETS, BREADED, RAW AND COOKED . . . . .	DO	-	-	(1)	(1)		
PIKE OR PICKEREL FILLETS, FRESH AND FROZEN . . . . .	DO	-	-	(1)	(1)		
SABLEFISH, SMOKED . . . . .	DO	{1}	{1}	-	-		
SALMON, SMOKED . . . . .	DO	{1}	{1}	191,096	103,636		
SAUER FILLETS, FRESH AND FROZEN . . .	DO	356,000	222,920	560,239	961,989		
SMELT, BREADED, FROZEN . . . . .	DO	(1)	(1)	-	-		

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GREAT LAKES FISHERIES

## MANUFACTURED FISHERY PRODUCTS, 1964 - Continued

ITEM	MICHIGAN		ILLINOIS	
	QUANTITY	VALUE	QUANTITY	VALUE
SNAPPER, RED, FILLETS, FRESH AND FROZEN . . . . .	POUNDS DO	(1)	(1)	(1)
STURGEON, SMOKED . . . . .	DO	(1)	(1)	(1)
WHITE BASS FILLETS, FRESH AND FROZEN . . . . .	DO	(1)	-	-
WHITEFISH:				
FILLETS, FRESH AND FROZEN . . . . .	DO	43,425	\$ 36,746	141,000
SMOKED . . . . .	DO	25,235	14,478	7,658
YELLOW PERCH FILLETS:				
FRESH AND FROZEN . . . . .	DO	882,900	564,925	12,900
BREADED . . . . .	DO	(1)	(1)	(1)
YELLOW PIKE FILLETS:				
FRESH AND FROZEN . . . . .	DO	613,000	438,650	134,900
BREADED FROZEN . . . . .	DO	-	-	99,190
SHRIMP, FRESH AND FROZEN, BREADED . . . . .	DO	-	-	(1)
SCALLOPS, BREADED, RAW AND COOKED, FROZEN . . . . .	DO	-	-	(1)
OYSTERS, BREADED, FROZEN . . . . .	DO	-	-	(1)
UNCLASSIFIED:				
FROZEN PACKAGED, FILLETS, STICKS, AND PORTIONS . . . . .	DO	-	{2}	436,593
CANNED . . . . .	STANDARD CASES	-	{2}	246,329
CURED . . . . .	POUNDS 1,138,000	414,194	-	{2}
MISCELLANEOUS . . . . .	-	256,370	-	337,521
TOTAL . . . . .	-	2,022,818	-	5,205,405
ITEM	WISCONSIN		MINNESOTA	
	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES:				
MEAL . . . . .	TONS	(1)	-	-
OIL . . . . .	1,000 POUNDS	(1)	(1)	-
SOLUBLES . . . . .	TONS	(1)	-	-
CHUBS, SMOKED . . . . .	POUNDS 820,420	\$313,384	15,542	\$7,246
HERRING:				
LAKE:				
FILLETS, FRESH AND FROZEN . . . . .	DO	(1)	(1)	(1)
BREADED, FRESH . . . . .	DO	-	-	(1)
SALTED . . . . .	DO	(1)	(1)	(1)
SMOKED . . . . .	DO	34,660	10,131	7,558
SEA, SALTED AND PICKLED . . . . .	DO	(1)	(1)	2,435
LAKE TROUT:				
FILLETS, FRESH AND FROZEN . . . . .	DO	21,715	15,433	-
SMOKED . . . . .	DO	11,076	8,307	(1)
PINK OR HICKORY, FILLETS:				
FRESH AND FROZEN . . . . .	DO	(1)	(1)	-
BREADED, FROZEN . . . . .	DO	-	-	(1)
SABLEFISH, SMOKED . . . . .	DO	37,315	22,533	(1)
SALMON, SMOKED . . . . .	DO	24,870	19,271	(1)
SAUER FILLETS, FRESH AND FROZEN . . . . .	DO	19,000	14,740	(1)
SUCKERS, SMOKED . . . . .	DO	-	-	(1)
WHITEFISH:				
FILLETS, FRESH AND FROZEN . . . . .	DO	94,060	81,096	-
CAVIA, CANNED . . . . .	STANDARD CASES	(1)	(1)	-
SMOKED . . . . .	POUNDS 32,630	19,294	(1)	(1)
WHITING, SMOKED . . . . .	DO	-	-	(1)
YELLOW PERCH FILLETS:				
FRESH AND FROZEN . . . . .	DO	1,150,973	713,920	-
BREADED, FROZEN . . . . .	DO	(1)	(1)	-
YELLOW PIKE FILLETS:				
FRESH AND FROZEN . . . . .	DO	38,170	34,072	-
BREADED FROZEN . . . . .	DO	-	-	(1)
UNCLASSIFIED:				
FROZEN PACKAGED, FILLETS, STICKS AND PORTIONS . . . . .	DO	662,378	281,581	47,000
CANNED . . . . .	STANDARD CASES	-	{2}	-
CURED . . . . .	POUNDS 997,130	513,455	211,394	36,103
INDUSTRIAL . . . . .	-	(2)	-	-
MISCELLANEOUS . . . . .	-	895,908	-	-
TOTAL . . . . .	-	2,944,025	-	73,784

1/ INCLUDED WITH UNCLASSIFIED ITEMS.

2/ INCLUDED WITH MISCELLANEOUS.

NOTE:--SOME OF THE PRODUCTS MAY HAVE BEEN MANUFACTURED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE CATCH WITHIN THE STATE. CERTAIN ITEMS ARE SHOWN IN AN INTERMEDIATE OR MORE ADVANCED STAGE OF PROCESSING.

# GREAT LAKES FISHERIES

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## SUMMARY OF MANUFACTURED PRODUCTS, 1964 (VALUE IN THOUSANDS OF DOLLARS)

ITEM	QUANTITY	VALUE
FRESH AND FROZEN PACKAGED:		
NOT BREADED, FISH AND SHELLFISH FILLETS, STEAKS, AND PORTIONS . . .	1,000 POUNDS	6,609
BREADED, . . . . . DO	1,000 DO	4,366
CANNED AND INDUSTRIAL. . . . .	1,000 STANDARD CASES	10,318
CURED. . . . .	1,000 POUNDS	1,215
TOTAL. . . . .	-	6,192
		22,091

## VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964 (THOUSANDS OF DOLLARS)

STATE	VALUE
NEW YORK . . . . .	636
PENNSYLVANIA . . . . .	48
OHIO . . . . .	11,161
MICHIGAN . . . . .	2,023
ILLINOIS . . . . .	5,205
MINNESOTA . . . . .	74
WISCONSIN. . . . .	2,944
TOTAL. . . . .	22,091

## WHOLESALING AND MANUFACTURING, 1964

ITEM	NEW YORK	PENN-SYLVANIA	OHIO	INDIANA	ILLINOIS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
WHOLESALING AND MANUFACTURING: ESTABLISHMENTS. . . . .	27	5	48	6	41
PERSONS ENGAGED:					
AVERAGE FOR SEASON. . . . .	161	20	568	16	897
AVERAGE FOR YEAR. . . . .	129	13	426	13	749
ITEM	MICHIGAN	MINNESOTA	WISCONSIN	TOTAL	
	NUMBER	NUMBER	NUMBER	NUMBER	
WHOLESALING AND MANUFACTURING: ESTABLISHMENTS. . . . .	66	10	51	254	
PERSONS ENGAGED:					
AVERAGE FOR SEASON. . . . .	637	119	462	2,880	
AVERAGE FOR YEAR. . . . .	459	42	353	2,184	



# GREAT LAKES FISHERIES

## LAKE ONTARIO - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	TRAP NETS	FYKE AND HOOP NETS	GILL NETS			
				1-1/4 - 2 INCH MESH	2-1/8 - 3-7/8 INCH MESH	4 - 7 INCH MESH	7-1/8 - 14 INCH MESH
FISHERMEN: ON VESSELS, PART-TIME . . . . .	-	-	-	-	3	3	-
ON BOATS AND SHORE, CASUAL . . . . .	3	26	12	1	3	2	1
TOTAL FISHERMEN . . . . .	3	26	12	1	6	5	1
VESSELS, MOTOR, PART-TIME, TOTAL . . . . .	-	-	-	-	1	1	-
TOTAL GROSS TONNAGE . . . . .	-	-	-	-	10	10	-
BOATS: MOTOR, CASUAL, TOTAL . . . . .	1	13	6	1	3	2	1
OTHER, CASUAL, TOTAL . . . . .	1	-	-	-	-	-	-
DAYS OPERATED: FISHERMEN: ON VESSELS . . . . .	-	-	-	-	-	-	-
ON BOATS AND SHORE . . . . .	36	552	280	3	243	264	3
TOTAL FISHERMEN DAYS . . . . .	36	552	280	3	254	287	3
CRAFT: VESSELS . . . . .	-	-	-	-	-	-	-
BOATS, MOTOR . . . . .	12	276	140	3	81	88	3
TOTAL CRAFT DAYS . . . . .	12	276	140	3	92	111	3
FISHING EFFORT: LIFTS . . . . .	-	1,333	573	1	297	523	1
LIFTS PER 1,000 LINEAR YARDS . . . . .	2	-	-	-	-	-	-

SEE NOTE ON PAGE 329.

## LAKE ERIE - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS	TRAP NETS	FYKE AND HOOP NETS	GILL NETS	
					1-1/4 - 2 INCH MESH	1-1/4 - 2 INCH MESH
FISHERMEN: REGULAR . . . . .	-	-	-	6	-	-
PART-TIME . . . . .	3	6	-	53	-	-
CASUAL . . . . .	6	-	-	46	-	-
ON BOATS AND SHORE: REGULAR . . . . .	-	-	-	-	-	-
PART-TIME . . . . .	4	-	-	-	-	-
CASUAL . . . . .	51	-	8	-	-	-
TOTAL FISHERMEN . . . . .	128	-	34	16	2	-
TOTAL FISHERMEN . . . . .	192	6	147	16	2	-
VESSELS, MOTOR: REGULAR . . . . .	-	-	-	2	-	-
PART-TIME . . . . .	1	3	-	26	-	-
CASUAL . . . . .	2	-	-	23	-	-
TOTAL VESSELS . . . . .	3	3	51	-	-	-
TOTAL GROSS TONNAGE . . . . .	34	40	682	-	-	-

(CONTINUED ON NEXT PAGE)

# GREAT LAKES FISHERIES

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## LAKE ERIE - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964 - Continued

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS	TRAP NETS	FYKE AND HOOP NETS	GILL NETS
	NUMBER	NUMBER	NUMBER	NUMBER	1-1/4 - 2 1 INCH MESH
BOATS: MOTOR:					
REGULAR . . . . .	1	-	-	-	-
PART-TIME . . . . .	18	-	4	-	-
CASUAL . . . . .	42	-	17	8	1
TOTAL MOTOR BOATS. . . . .	61	-	21	8	1
OTHER:					
REGULAR . . . . .	1	-	-	-	-
PART-TIME . . . . .	19	-	-	-	-
CASUAL . . . . .	44	-	-	-	-
TOTAL OTHER BOATS. . . . .	64	-	-	-	-
DAYs OPERATED: FISHERMEN:					
ON VESSELS. . . . .	228	406	6,392	-	-
ON BOATS AND SHORE. . . . .	B,026	-	1,506	220	54
TOTAL FISHERMEN DAYS . . . . .	B,254	406	7,898	220	54
CRAFT:					
VESSELS . . . . .	76	203	3,089	-	-
BOATS, MOTOR. . . . .	2,613	-	753	110	27
TOTAL CRAFT DAYS . . . . .	2,689	203	3,842	110	27
FISHING EFFORT: LIFTS . . . . .	-	-	26,538	531	-
LIFTS PER 1,000 LINEAR YARDS. . .	3,266	-	-	-	12
HOURS TRAWLED	-	722	-	-	-
GILL NETS - CONTINUED					
ITEM	2-1/8 - 3-7/8 INCH MESH	4 - 7 INCH MESH	7-1/8 - 14 INCH MESH	LINES, LONG OR SET WITH HOOKS	DIP NETS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN: ON VESSELS:					
PART-TIME . . . . .	33	3	-	-	-
CASUAL. . . . .	37	39	4	2	-
ON BOATS AND SHORE:					
PART-TIME . . . . .	6	-	-	34	-
CASUAL. . . . .	28	52	6	125	3
TOTAL FISHERMEN. . . . .	104	94	10	161	3
VESSELS, MOTOR: PART-TIME . . . . .	15	1	-	-	-
CASUAL. . . . .	18	19	2	1	-
TOTAL VESSELS. . . . .	33	20	2	1	-
TOTAL GROSS TONNAGE. . . . .	452	273	20	11	-
BOATS, MOTOR: REGULAR . . . . .	3	-	-	17	-
CASUAL. . . . .	26	38	4	121	3
TOTAL MOTOR BOATS. . . . .	29	36	4	138	3
DAYS OPERATED: FISHERMEN:					
ON VESSELS. . . . .	4,018	989	80	16	-
ON BOATS AND SHORE. . . . .	960	863	48	4,540	34
TOTAL FISHERMEN DAYS . . . . .	4,978	1,852	128	4,556	34

(CONTINUED ON NEXT PAGE)

# GREAT LAKES FISHERIES

## LAKE ERIE - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964 - Continued

ITEM	GILL NETS - CONTINUED			LINES, LONG OR SET WITH HOOKS	DIP NETS
	2-1/8 - 3-7/8 INCH MESH	4 - 7 INCH MESH	7-1/8 - 14 INCH MESH		
NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
DAYS OPERATED - CONTINUED: CRAFT: VESSELS . . . . . BOATS, MOTOR. . . . .	1,899 644	433 604	40 42	8 3,060	- 34
TOTAL CRAFT DAYS . . . . .	2,543	1,037	82	3,068	34
FISHING EFFORT: LIFTS PER 1,000 LINEAR YARDS . . . . . LIFTS PER 1,000 HOOKS . . . . . DAYS FISHED . . . . .	7,974 - -	1,904 - -	31 - -	1,343 - -	- - 34

SEE NOTE ON PAGE 329.

## LAKE HURON - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	POUND NETS	TRAP NETS	FYKE AND HOOP NETS	
				NUMBER	NUMBER
FISHERMEN: ON VESSELS: PART-TIME . . . . . CASUAL. . . . .	-	-	14 26	-	-
ON BOATS AND SHORE: PART-TIME . . . . . CASUAL. . . . .	7 39	2 18	19 70	2 9	
TOTAL FISHERMEN. . . . .	46	20	129	11	
VESSELS, MOTOR: PART-TIME . . . . . CASUAL. . . . .	-	-	7 12	-	-
TOTAL VESSELS. . . . .	-	-	19	-	
TOTAL GROSS TONNAGE. . . . .	-	-	207	-	
BOATS: MOTOR: PART-TIME . . . . . CASUAL. . . . .	2 13	1 9	9 35	1 6	
TOTAL MOTOR BOATS. . . . .	15	10	44	6	
OTHER: PART-TIME . . . . . CASUAL. . . . .	2 13	-	-	-	
TOTAL OTHER BOATS. . . . .	15	-	-	-	
DAYS OPERATED: FISHERMEN: ON VESSELS. . . . . ON BOATS AND SHORE. . . . .	-	-	1,820 2,783	-	178
TOTAL FISHERMEN DAYS . . . . .	923	314	4,603	178	
CRAFT: VESSELS . . . . . BOATS, MOTOR. . . . .	-	-	670 1,350	-	94
TOTAL CRAFT DAYS . . . . .	295	133	2,230	94	
FISHING EFFORT: LIFTS . . . . . LIFTS PER 1,000 LINEAR YARDS . . . . .	-	393	11,130	-	395

(CONTINUED ON NEXT PAGE)

# GREAT LAKES FISHERIES

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## LAKE HURON - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964 - Continued

ITEM	GILL NETS				LINES, LONG OR SET WITH HOOKS
	1-1/4 - 2 INCH MESH	2-1/8 - 3-7/8 INCH MESH	4 - 7 INCH MESH	7-1/8 - 14 INCH MESH	
FISHERMEN:					
ON VESSELS:					
REGULAR . . . . .	-	9	-	-	-
PART-TIME . . . . .	-	41	2	-	3
CASUAL . . . . .	2	47	15	2	7
ON BOATS AND SHORE:					
PART-TIME . . . . .	-	10	-	16	37
CASUAL . . . . .	1	62	47	37	42
TOTAL FISHERMEN. . . . .	3	169	64	55	89
VESSELS, MOTOR:					
REGULAR . . . . .	-	3	-	-	-
PART-TIME . . . . .	-	19	1	-	1
CASUAL . . . . .	1	22	7	1	3
TOTAL VESSELS. . . . .	1	44	8	1	4
TOTAL GROSS TONNAGE. . . . .	41	873	143	12	107
BOATS, MOTOR:					
PART-TIME . . . . .	-	5	-	8	17
CASUAL . . . . .	1	49	30	23	32
TOTAL MOTOR BOATS. . . . .	1	54	30	31	49
DAY'S OPERATED:					
FISHERMEN:					
ON VESSELS. . . . .	10	7,007	497	12	354
ON BOATS AND SHORE. . . . .	3	1,673	542	2,040	3,609
TOTAL FISHERMEN DAYS . . . . .	13	8,680	1,039	2,052	3,963
CRAFT:					
VESSELS . . . . .	5	3,080	227	6	177
BOATS, MOTOR. . . . .	3	1,105	314	1,058	1,994
TOTAL CRAFT DAYS . . . . .	8	4,185	541	1,064	2,171
FISHING EFFORT:					
LIFTS PER 1,000 LINEAR YARDS. . .	40	15,622	1,235	1,027	-
LIFTS PER 1,000 HOOKS . . . . .	-	-	-	-	1,482

SEE NOTE ON PAGE 329.

## LAKE MICHIGAN - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS	POUND NETS	TRAP NETS	FYKE AND HOOP NETS
FISHERMEN:					
ON VESSELS:					
REGULAR . . . . .	-	9	-	-	-
PART-TIME . . . . .	-	15	-	-	3
CASUAL . . . . .	6	2	18	16	-
ON BOATS AND SHORE:					
PART-TIME . . . . .	3	-	7	2	24
CASUAL . . . . .	16	-	106	6	28
TOTAL FISHERMEN. . . . .	27	27	131	24	55
VESSELS, MOTOR:					
REGULAR . . . . .	-	3	-	-	-
PART-TIME . . . . .	-	8	-	-	1
CASUAL . . . . .	2	1	8	6	-
TOTAL VESSELS. . . . .	2	12	8	8	1
TOTAL GROSS TONNAGE. . . . .	21	403	127	96	13

(CONTINUED ON NEXT PAGE)

**GREAT LAKES FISHERIES**  
**LAKE MICHIGAN - OPERATING UNITS AND**  
**FISHING EFFORT BY GEAR, 1964 - Continued**

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS	POUND NETS	TRAP NETS	FYKE AND HOOP NETS	
BOATS:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
MOTOR:						
PART-TIME . . . . .	1	-	3	1	13	
CASUAL . . . . .	6	-	50	3	14	
TOTAL MOTOR BOATS . . . . .	7	-	53	4	27	
OTHER:						
PART-TIME . . . . .	1	-	-	-	-	
CASUAL . . . . .	8	-	-	-	-	
TOTAL OTHER BOATS . . . . .	9	-	-	-	-	
DAYS OPERATED:						
FISHERMEN:						
ON VESSELS . . . . .	112	3,914	373	502	363	
ON BOATS AND SHORE . . . . .	429	-	2,260	212	2,650	
TOTAL FISHERMEN DAYS . . . . .	541	3,914	2,633	714	3,013	
CRAFT:						
VESSELS . . . . .	54	1,624	181	251	121	
BOATS, MOTOR . . . . .	143	-	1,099	106	1,326	
TOTAL CRAFT DAYS . . . . .	197	1,624	1,280	357	1,447	
FISHING EFFORT:						
LIFTS . . . . .	-	-	2,965	1,963	13,733	
LIFTS PER 1,000 LINEAR YARDS . . . . .	142	-	-	-	-	
HOURS TRAWLED . . . . .	-	9,250	-	-	-	
GILL NETS						
ITEM	1-1/4 - 2 INCH MESH	2-1/8 - 3-7/8 INCH MESH	4 - 7 INCH MESH	7-1/8 - 14 INCH MESH	HAND	LINES
FISHERMEN:	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON VESSELS:						
REGULAR . . . . .	-	78	-	-	-	-
PART-TIME . . . . .	-	131	35	-	-	-
CASUAL . . . . .	14	113	111	2	-	-
ON BOATS AND SHORE:						
REGULAR . . . . .	-	6	-	-	-	-
PART-TIME . . . . .	-	62	6	2	-	-
CASUAL . . . . .	29	293	149	14	1	2
TOTAL FISHERMEN . . . . .	43	683	301	16	1	2
VESSELS, MOTOR:						
REGULAR . . . . .	-	26	-	-	-	-
PART-TIME . . . . .	-	62	14	-	-	-
CASUAL . . . . .	6	54	50	1	-	-
TOTAL VESSELS . . . . .	6	142	64	1	-	-
TOTAL GROSS TONNAGE . . . . .	68	3,173	1,391	11	-	-
BOATS, MOTOR:						
REGULAR . . . . .	-	2	-	-	-	-
PART-TIME . . . . .	-	30	3	-	-	-
CASUAL . . . . .	26	232	95	10	1	2
TOTAL MOTOR BOATS . . . . .	26	264	98	10	1	2
DAYS OPERATED:						
FISHERMEN:						
ON VESSELS . . . . .	102	31,369	5,139	2	-	-
ON BOATS AND SHORE . . . . .	154	10,583	2,293	283	15	36
TOTAL FISHERMEN DAYS . . . . .	256	41,952	7,432	285	15	36
CRAFT:						
VESSELS . . . . .	46	13,090	2,148	1	-	-
BOATS, MOTOR . . . . .	136	6,547	1,475	227	15	36
TOTAL CRAFT DAYS . . . . .	184	19,637	3,623	226	15	36
FISHING EFFORT:						
LIFTS PER 1,000 LINEAR YARDS . . . . .	71	47,400	11,810	185	-	-
LIFTS PER 1,000 HOOKS . . . . .	-	-	-	-	-	15
DAYS FISHED . . . . .	-	-	-	-	-	-

SEE NOTE ON PAGE 329.

# GREAT LAKES FISHERIES

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## LAKE SUPERIOR - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964

ITEM	POUND NETS	TRAP NETS	FYKE AND HOOP NETS	GILL NETS			DIP NETS
				1-1/4 - 2 INCH MESH	2-1/8 - 3-7/8 INCH MESH	4 - 7 INCH MESH	
FISHERMEN:							
ON VESSELS:							
REGULAR . . . . .	-	-	-	-	15	-	-
PART-TIME . . . . .	2	2	-	4	72	26	-
CASUAL . . . . .	15	4	-	35	79	67	-
ON BOATS AND SHORE:							
REGULAR . . . . .	-	-	-	-	12	-	-
PART-TIME . . . . .	-	-	-	-	66	13	-
CASUAL . . . . .	50	6	1	21	154	107	1
TOTAL FISHERMEN . . . . .	67	12	1	60	418	213	1
VESSELS, MOTOR:							
REGULAR . . . . .	-	-	-	-	5	-	-
PART-TIME . . . . .	1	1	-	2	34	12	-
CASUAL . . . . .	7	2	-	16	39	32	-
TOTAL VESSELS . . . . .	8	3	-	18	78	44	-
TOTAL GROSS TONNAGE . . . . .	114	37	-	310	1,332	763	-
BOATS, MOTOR:							
REGULAR . . . . .	-	-	-	-	4	-	-
PART-TIME . . . . .	-	-	-	-	43	6	-
CASUAL . . . . .	25	3	1	14	136	80	1
TOTAL MOTOR . . . . .	25	3	1	14	186	86	1
DAY'S OPERATED:							
FISHERMEN:							
ON VESSELS . . . . .	416	304	-	786	11,604	3,467	-
ON BOATS AND SHORE . . . . .	834	146	3	369	13,287	2,467	8
TOTAL FISHERMEN DAYS . . . . .	1,250	450	3	1,155	24,891	5,934	8
CRAFT:							
VESSELS . . . . .	203	152	-	365	5,042	1,574	-
BOATS, MOTOR . . . . .	417	73	3	301	7,115	1,634	8
TOTAL CRAFT DAYS . . . . .	620	225	3	666	12,157	3,208	8
FISHING EFFORT:							
LIFTS . . . . .	2,029	1,552	3	684	16,887	7,502	-
LIFTS PER 1,000 LINEAR YARDS . . . . .	-	-	-	-	-	-	8
DAYS FISHED . . . . .	-	-	-	-	-	-	-

SEE NOTE ON PAGE 329.

## LAKE OF THE WOODS, NAMAKAN LAKE, AND RAINY LAKE OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964

ITEM	OTTER TRAWLS	POUND NETS	TRAP NETS	FYKE AND HOOP NETS	GILL NETS	
					4 - 7 INCH MESH	NUMBER
FISHERMEN:						
ON VESSELS, PART-TIME . . . . .	4	-	-	-	-	-
ON BOATS AND SHORE:						
PART-TIME . . . . .	-	-	4	-	4	36
CASUAL . . . . .	-	4	-	-	4	5
TOTAL FISHERMEN . . . . .	4	4	4	4	4	43

(CONTINUED ON NEXT PAGE)

# GREAT LAKES FISHERIES

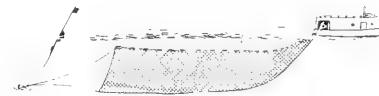
## LAKE OF THE WOODS, NAMAKAN LAKE, AND RAINY LAKE OPERATING UNITS AND FISHING EFFORT BY GEAR, 1964 - Continued

ITEM	OTTER TRAWLS	POUND NETS	TRAP NETS	FYKE AND HOOF NETS	GILL NETS
					4 - 7 INCH MESH
VESSELS, MOTOR, PART-TIME, TOTAL.	NUMBER 2	NUMBER -	NUMBER -	NUMBER -	NUMBER -
TOTAL GROSS TONNAGE . . . . .	49	-	-	-	-
BOATS, MOTOR:					
PART-TIME . . . . .	-	-	2	-	19
CASUAL . . . . .	-	2	-	2	5
TOTAL MOTOR BOATS . . . . .	-	2	2	2	24
DAY'S OPERATED:					
FISHERMEN:					
ON VESSELS . . . . .	588	-	366	-	4,256
ON BOATS AND SHORE . . . . .	68	-	34	-	
TOTAL FISHERMEN DAYS . . . . .	588	68	366	34	4,256
CRAFT:					
VESSELS . . . . .	294	-	193	-	2,251
BOATS, MOTOR, . . . . .	-	34	-	17	
TOTAL CRAFT DAYS . . . . .	294	34	193	17	2,251
FISHING EFFORT:					
LIFTS . . . . .	-	34	*	1,334	152
LIFTS PER 1,000 LINEAR YARDS . . . . .	-	-	-	-	-
HOURS TRAWLED . . . . .	1,468	-	-	-	2,095

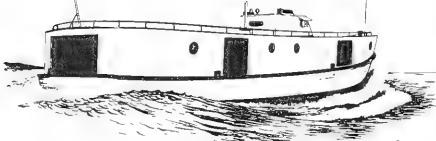
NOTE:--DATA ON OPERATING UNITS AND FISHING EFFORT ARE NOT AVAILABLE FOR LAKE ST. CLAIR.

SEE NOTE ON PAGE 329.

GILL NET



GREAT LAKES TUG



# GREAT LAKES FISHERIES

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## CATCH BY LAKE, STATE, AND GEAR, 1964

SPECIES	LAKE ONTARIO							
	NEW YORK							
	HAUL SEINES		TRAP NETS		FYKE AND HOOP NETS		GILL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	-	-	(1)	\$94	-	-	-	-
BOWFIN . . . . .	-	-	1,600	-	-	-	-	-
BULLHEADS . . . . .	4,500	\$1,209	36,500	9,667	3,400	\$905	-	-
BURBOT . . . . .	-	-	400	19	-	-	-	-
CARP . . . . .	23,200	697	15,600	459	300	8	-	-
CATFISH . . . . .	-	-	800	112	-	-	-	-
CISCO . . . . .	-	-	800	216	-	-	-	-
CRAPPIE . . . . .	-	-	700	74	-	-	-	-
EELS, COMMON . . . . .	-	-	32,500	6,503	200	47	-	-
GARFISH . . . . .	-	-	(1)	(1)	-	-	-	-
ROCK BASS . . . . .	-	-	3,600	285	(1)	2	-	-
SHEEPSHEAD . . . . .	-	-	(1)	1	-	-	-	-
SMELT . . . . .	-	-	-	-	100	34	-	-
SUCKERS . . . . .	100	10	13,200	1,052	100	8	400	\$18
SUNFISH . . . . .	-	-	11,700	1,286	(1)	5	-	-
WHITE BASS . . . . .	-	-	900	123	-	-	-	-
WHITE FISH, COMMON . . . . .	-	-	200	101	-	-	-	-
WHITE PERCH . . . . .	-	-	3,500	418	-	-	-	-
YELLOW PERCH . . . . .	-	-	13,000	1,247	100	6	-	-
YELLOW PIKE . . . . .	-	-	1,000	592	-	-	-	-
TOTAL . . . . .	27,800	1,916	136,800	22,262	4,200	1,016	400	16

SPECIES	LAKE ONTARIO - CONTINUED							
	NEW YORK - CONTINUED							
	GILL NETS - CONTINUED							
	2-1/8 - 3-7/8 INCH MESH	4 - 7 INCH MESH	7-1/8 - 14 INCH MESH					TOTAL
ALEWIVES . . . . .	-	-	-	-	-	-	(1)	(1)
BOWFIN . . . . .	-	-	-	-	-	-	1,600	\$94
BULLHEADS . . . . .	100	\$26	-	-	-	-	44,500	12,008
BURBOT . . . . .	-	-	-	-	-	-	400	19
CARP . . . . .	-	-	-	-	-	-	39,100	1,174
CATFISH . . . . .	-	-	-	-	-	-	800	112
CISCO . . . . .	300	80	7,000	\$2,037	-	-	8,100	2,355
CRAPPIE . . . . .	-	-	-	-	-	-	700	74
EELS, COMMON . . . . .	-	-	-	-	-	-	32,700	6,550
GARFISH . . . . .	-	-	-	-	-	-	(1)	(1)
PIKE OR PICKEREL . . . . .	100	6	-	-	-	-	100	6
ROCK BASS . . . . .	-	-	-	-	-	-	3,600	288
SHEEPSHEAD . . . . .	(1)	1	-	-	-	-	(1)	1
SMELT . . . . .	-	-	-	-	-	-	500	53
STURGEON . . . . .	(1)	2	100	45	(1)	\$31	100	76
SUNFISH . . . . .	(1)	-	-	-	-	-	13,400	1,072
WHITE BASS . . . . .	2,700	351	-	-	-	-	11,700	1,291
WHITE FISH, COMMON . . . . .	-	-	16,300	8,978	-	-	9,000	474
WHITE PERCH . . . . .	69,300	6,237	-	-	-	-	16,500	9,079
YELLOW PERCH . . . . .	1,500	624	-	-	-	-	3,500	418
YELLOW PIKE . . . . .	-	-	-	-	-	-	83,200	7,490
TOTAL . . . . .	74,000	7,327	23,400	11,050	(1)	31	266,600	43,630

SPECIES	LAKE ERIE							
	NEW YORK							
	GILL NETS							
	2-1/8 - 3-7/8 INCH MESH	4 - 7 INCH MESH					TOTAL	
BLUE PIKE . . . . .	(1)	\$2	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CARP . . . . .	-	-	(1)	\$92	(1)	\$92	(1)	\$2
CATFISH . . . . .	100	13	400	-	500	-	500	105
CISCO . . . . .	(1)	3	-	-	(1)	-	1,000	3
SHEEPSHEAD . . . . .	100	3	900	-	35	-	300	16
SMELT . . . . .	300	16	400	-	8	-	400	8
SUCKERS . . . . .	-	-	-	-	-	-	-	-

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GREAT LAKES FISHERIES

## CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE ERIE - CONTINUED					
	NEW YORK - CONTINUED					
	GILL NETS		4 - 7 INCH MESH		TOTAL	
	2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
WHITE BASS . . . . .	6,900	\$970	2,400	\$338	9,300	\$1,308
WHITEFISH, COMMON . . . . .	-	-	(1)	3	(1)	3
YELLOW PERCH . . . . .	81,400	15,460	2,800	528	84,200	15,988
YELLOW PIKE . . . . .	9,400	3,208	74,300	25,316	83,900	28,524
TOTAL . . . . .	98,200	19,675	81,400	26,320	179,600	45,995

SPECIES	LAKE ERIE - CONTINUED					
	PENNSYLVANIA					
	OTTER TRAWLS, FISH FOR HUMAN FOOD		FLOATING TRAPS		GILL NETS	
	2-1/8 - 3-7/8 INCH MESH					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUE PIKE . . . . .	-	-	-	-	(1)	\$1
CARP . . . . .	-	-	-	-	(1)	(1)
CATFISH . . . . .	-	-	(1)	\$1	400	90
CISCO . . . . .	-	-	100	40	100	17
QUILLBACK . . . . .	-	-	-	-	(1)	1
SHEEPSHEAD . . . . .	-	-	-	-	24,000	479
SMELT . . . . .	227,300	\$4,773	217,200	17,811	500	42
STURGEON . . . . .	-	-	100	72	-	-
SUCKERS . . . . .	-	-	-	-	1,400	41
WHITE BASS . . . . .	-	-	200	22	8,600	1,135
WHITEFISH, COMMON . . . . .	-	-	1,400	671	200	96
YELLOW PERCH . . . . .	-	-	12,200	2,325	299,300	57,471
YELLOW PIKE . . . . .	-	-	(1)	9	5,300	1,652
TOTAL . . . . .	227,300	4,773	231,200	20,951	339,600	61,025

SPECIES	LAKE ERIE - CONTINUED					
	PENNSYLVANIA - CONTINUED				OHIO	
	GILL NETS - CONTINUED		TOTAL		HAUL SEINES	
	4 - 7 INCH MESH					TRAP NETS
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUE PIKE . . . . .	(1)	\$4	(1)	\$5	-	\$19
BUFFALOFISH . . . . .	-	-	-	-	58,000	\$7,372
BULLHEADS . . . . .	-	-	-	-	83,400	35,100
BURDHEAD . . . . .	200	3	200	3	1,000	8,336
CARP . . . . .	-	-	(1)	49	1,000	1,800
CATFISH . . . . .	600	119	(1,000)	210	1,999,000	53,971
CISCO . . . . .	(1)	1	200	58	723,700	196,850
GIZZARD SHAD . . . . .	-	-	-	-	242,600	65,992
GOLDFISH . . . . .	-	-	-	-	(1)	7
MOONEYE OR GOLDEYE . . . . .	-	-	-	-	1,400	53
QUILLBACK . . . . .	-	-	(1)	1	157,600	900
SAUGER . . . . .	-	-	-	-	200	23
SHEEPSHEAD . . . . .	1,700	34	25,700	513	2,115,000	35,955
SMELT . . . . .	(1)	(1)	445,000	22,626	-	(1)
SUCKERS . . . . .	100	2	1,500	43	21,900	1,052
WHITE BASS . . . . .	2,000	268	10,800	1,425	336,000	56,108
WHITEFISH, COMMON . . . . .	400	172	2,000	939	100	940,400
YELLOW PERCH . . . . .	1,200	236	312,700	60,032	37,000	5,398
YELLOW PIKE . . . . .	12,100	3,818	17,400	5,479	18,000	7,261
TOTAL . . . . .	18,300	4,657	816,600	91,406	5,552,500	376,742
						4,947,000
						496,792

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GREAT LAKES FISHERIES

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## CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE ERIE - CONTINUED							
	OHIO - CONTINUED							
	FYKE AND HOOP NETS		GILL NETS		1-1/4 - 2 INCH MESH			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUE PIKE . . . . .	-	-	-	-	(1)	\$8	-	-
BUFFALO FISH . . . . .	600	\$72	-	-	-	-	600	\$72
BULLHEADS . . . . .	100	10	-	-	100	11	(1)	(1)
BURBOT . . . . .	-	-	-	-	400	18	-	-
CARP . . . . .	400	11	-	-	700	20	28,300	765
CATFISH . . . . .	1,600	484	400	\$111	5,300	1,436	13,300	3,620
CISCO . . . . .	-	-	-	-	500	143	(1)	4
GIZZARD SHAD . . . . .	100	3	-	-	(1)	(1)	200	6
GOLDFISH . . . . .	-	-	-	-	-	-	(1)	1
SAUGER . . . . .	-	-	-	-	(1)	2	-	-
SHEEPSHEAD . . . . .	3,000	51	100	2	12,300	210	54,300	923
SMELT . . . . .	-	-	-	-	1,300	51	-	-
STURGEON . . . . .	-	-	-	-	-	-	100	68
SUCKERS . . . . .	700	36	-	-	3,400	162	3,600	170
WHITE BASS . . . . .	39,200	6,558	6,100	1,012	55,100	9,361	37,100	6,194
WHITEFISH, COMMON . . . . .	-	-	-	-	500	74	100	56
YELLOW PERCH . . . . .	2,000	289	1,300	197	164,400	23,997	700	103
YELLOW PIKE . . . . .	1,100	422	-	-	41,000	16,922	68,000	24,001
TOTAL. . . . .	49,000	7,936	7,900	1,322	285,600	52,415	206,300	35,992

SPECIES	LAKE ERIE - CONTINUED							
	OHIO - CONTINUED							
	GILL NETS - CONT'D.		LINES, LONG OR SET WITH HOOKS		DIP NETS		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BLUE PIKE . . . . .	-	-	-	-	-	-	100	\$27
BUFFALO FISH . . . . .	900	\$113	(1)	\$2	-	-	95,200	12,086
BULLHEADS . . . . .	-	-	2,500	352	(1)	(1)	122,200	12,222
BURBOT . . . . .	-	-	(1)	1	-	-	3,200	158
CARP . . . . .	40,400	1,092	3,300	87	300	\$6	2,271,700	61,388
CATFISH . . . . .	(1)	9	127,500	34,670	(1)	(1)	1,114,600	303,182
CISCO . . . . .	-	-	-	-	-	-	500	154
GIZZARD SHAD . . . . .	-	-	(1)	(1)	(1)	(1)	9,600	362
GOLDFISH . . . . .	-	-	(1)	(1)	-	-	158,700	4,286
MOONEYE OR GOLDEYE . . . . .	-	-	(1)	(1)	-	-	200	6
QUILLBACK . . . . .	-	-	-	-	-	-	100	4
SAUGER . . . . .	-	-	(1)	3	(1)	(1)	4,422,900	75,190
SHEEPSHEAD . . . . .	800	13	3,300	56	(1)	(1)	-	32
SMELT . . . . .	-	-	-	-	-	-	1,300	667
STURGEON . . . . .	100	65	-	-	-	-	163,400	8,605
SUCKERS . . . . .	-	-	-	-	(1)	(1)	1,415,100	236,313
WHITE BASS . . . . .	-	-	200	37	(1)	1	800	485
WHITEFISH, COMMON . . . . .	-	-	(1)	2	-	-	1,086,100	158,570
YELLOW PERCH . . . . .	-	-	100	17	(1)	4	341,900	134,241
YELLOW PIKE . . . . .	1,700	470	-	-	(1)	3	-	-
TOTAL. . . . .	43,900	1,762	137,900	35,227	300	15	11,230,400	1,006,203

SPECIES	LAKE ERIE - CONTINUED							
	MICHIGAN							
	HAUL SEINES		TRAP NETS		FYKE AND HOOP NETS		GILL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALO FISH . . . . .	1,200	\$131	24,400	\$2,735	-	-	-	-
BULLHEADS . . . . .	2,500	377	14,000	1,443	1,000	\$151	-	-
CARP . . . . .	456,600	12,361	167,200	4,516	8,300	224	600	\$16
CATFISH . . . . .	21,700	5,607	25,800	6,895	-	-	100	16
GIZZARD SHAD . . . . .	-	-	1,900	43	-	-	-	-
ROCK BASS . . . . .	-	-	(1)	1	-	-	-	-
SHEEPSHEAD . . . . .	1,000	28	97,500	2,812	1,200	35	-	-
SUCKERS . . . . .	-	-	54,400	1,371	-	-	-	-
WHITE BASS . . . . .	900	130	97,800	13,667	800	115	400	52
WHITEFISH, COMMON . . . . .	-	-	34,800	6,140	1,900	342	(1)	8
YELLOW PERCH . . . . .	100	25	121,300	47,892	-	-	(1)	19
TOTAL. . . . .	486,000	18,879	626,100	86,215	13,200	867	1,100	111

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GREAT LAKES FISHERIES

## CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE ERIE - CONTINUED					
	MICHIGAN - CONTINUED					
	GILL NETS - CONTINUED		LINES, LONG OR SET WITH HOOKS		TOTAL	
	7-1/8 - 14 INCH MESH					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALO FISH . . . . .	-	-	-	-	25,600	\$2,856
BULLHEADS . . . . .	-	-	100	\$6	4,600	677
CARP . . . . .	1,000	\$27	-	-	635,700	17,164
CATFISH . . . . .	100	12	(1)	7	47,700	12,737
GOLDFISH . . . . .	-	-	-	-	1,300	43
ROCK BASS . . . . .	-	-	-	-	1	1
SHEEPSHEAD . . . . .	-	-	-	-	99,700	2,875
SUCKERS . . . . .	-	-	-	-	54,400	1,371
WHITE BASS . . . . .	-	-	-	-	99,900	13,964
YELLOW PERCH . . . . .	-	-	-	-	36,700	6,490
YELLOW PIKE . . . . .	100	49	-	-	121,500	47,985
TOTAL. . . . .	1,200	88	100	13	1,127,700	106,173
LAKE HURON						
SPECIES	MICHIGAN					
	HAUL SEINES		POUND NETS		TRAP NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	-	-	-	-	(1)	(1)
BOWFIN . . . . .	-	-	-	-	200	11
BUFFALO FISH . . . . .	900	\$110	-	-	2,900	368
BULLHEADS . . . . .	-	-	-	-	145,400	3,800
CARP . . . . .	263,700	11,385	-	-	64,300	17,624
CATFISH . . . . .	4,500	1,244	-	-	900	216
CRAPPIE . . . . .	-	-	-	-	3,500	525
LAKE HERRING . . . . .	-	-	100	\$9	30,600	10,850
PIKE OR PICKEREL . . . . .	1,200	430	-	-	4,300	600
QUILLBACK . . . . .	-	-	-	-	9,000	236
ROCK BASS . . . . .	-	-	-	-	7,600	1,323
SHEEPSHEAD . . . . .	100	2	-	-	21,400	741
SMELT . . . . .	-	-	27,600	14,011	400	2,181
STURGEON . . . . .	-	-	(1)	37	400	392
SUCKERS . . . . .	68,100	3,249	-	-	334,000	15,934
WHITE BASS . . . . .	-	-	-	-	3,300	11,000
WHITEFISH . . . . .	-	-	-	-	608	526
COMMON . . . . .	-	-	8,000	4,333	133,900	72,193
MENOMINEE . . . . .	-	-	-	-	200	39
YELLOW PERCH . . . . .	700	145	400	76	234,300	46,971
YELLOW PIKE . . . . .	-	-	-	-	65,600	3,800
TOTAL. . . . .	339,200	16,565	36,100	18,466	1,062,000	203,246
	LAKE HURON - CONTINUED					
SPECIES	MICHIGAN - CONTINUED					
	GILL NETS					
	1-1/4 - 2 INCH MESH		2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	-	-	1,200	\$21	-	-
BULLHEADS . . . . .	-	-	100	8	-	-
CARP . . . . .	-	-	1,200	53	9,900	\$426
CATFISH . . . . .	-	-	200	49	600	156
CHUBS . . . . .	3,800	\$749	1,252,400	242,116	-	-
LAKE HERRING . . . . .	-	-	36,200	5,394	-	-
PIKE OR PICKEREL . . . . .	-	-	400	125	2,600	992
ROCK BASS . . . . .	-	-	(1)	2	(1)	300
SAUGER . . . . .	-	-	(1)	5	100	106
SHEEPSHEAD . . . . .	-	-	(1)	(1)	(1)	10
SMELT . . . . .	100	30	-	-	1	(1)
SUCKERS . . . . .	-	-	4,500	212	19,900	904
WHITE BASS . . . . .	-	-	-	-	1,000	45
WHITEFISH . . . . .	-	-	-	-	12	-
COMMON . . . . .	-	-	200	121	23,200	12,490
MENOMINEE . . . . .	-	-	2,300	518	(1)	3
YELLOW PERCH . . . . .	-	-	595,700	119,639	300	71
YELLOW PIKE . . . . .	-	-	300	141	12,300	4,965
TOTAL. . . . .	3,900	779	1,695,700	368,404	68,200	20,044
	(CONTINUED ON NEXT PAGE)					

SEE FOOTNOTE AT END OF TABLE.

# GREAT LAKES FISHERIES

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## CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE HURON - CONTINUED				LAKE MICHIGAN			
	MICHIGAN - CONTINUED				MICHIGAN			
	LINES, LONG OR SET WITH HOOKS		TOTAL		HAUL SEINES		OTTER TRAWLS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	-	-	1,200	\$21	400	\$6	2,276,400	\$34,632
BOWFIN . . . . .	-	-	200	11	-	-	-	-
BUFFALO FISH . . . . .	-	-	(1)	1	-	-	-	-
BULLHEADS . . . . .	(1)	\$1	7,700	975	-	-	-	-
CARP . . . . .	600	26	1,003,000	43,310	200	6	-	-
CATFISH . . . . .	80,100	21,973	153,100	41,976	-	-	-	-
CHUBS . . . . .	-	-	1,256,200	242,865	-	-	227,100	4,073
CRAPPIE . . . . .	-	-	900	216	-	-	-	-
LAKE HERRING . . . . .	-	-	39,800	5,928	-	-	-	-
PIKE OR PICKEREL . . . . .	-	-	35,900	12,739	-	-	-	-
QUILLBACK . . . . .	-	-	9,000	319	-	-	-	-
ROCK BASS . . . . .	-	-	9,200	1,598	-	-	-	-
SAUER . . . . .	-	-	100	20	-	-	-	-
SHEEPSHEAD . . . . .	100	2	21,600	747	-	-	-	-
SMELT . . . . .	-	-	32,000	16,222	-	-	75,500	1,825
STURGEON . . . . .	-	-	400	429	-	-	-	-
SUCKERS . . . . .	-	-	437,500	20,870	200	6	-	-
WHITE BASS . . . . .	-	-	3,400	620	-	-	-	-
WHITEFISH . . . . .	-	-	-	-	-	-	-	-
COMMON . . . . .	-	-	165,300	89,137	-	-	-	-
MENOMINEE . . . . .	-	-	2,500	560	-	-	-	-
YELLOW PERCH . . . . .	-	-	836,200	167,656	100	20	-	-
YELLOW PIKE . . . . .	-	-	79,300	32,134	-	-	-	-
TOTAL . . . . .	80,800	22,002	4,094,500	678,352	900	38	2,581,000	40,530

SPECIES	LAKE MICHIGAN - CONTINUED				MICHIGAN - CONTINUED			
	OTTER TRAWLS - CONT'D.		POUND NETS		TRAP NETS		FYKE AND HOOP NETS	
	FISH FOR HUMAN FOOD		POUND NETS		TRAP NETS		FYKE AND HOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	-	-	1,048,700	\$15,940	-	-	(1)	\$1
BULLHEADS . . . . .	(1)	(1)	100	2	100	\$5	-	-
CARP . . . . .	1,200	\$42	100	2	100	32	-	-
CHUBS . . . . .	37,800	7,373	(1)	4	-	-	-	-
LAKE HERRING . . . . .	2,600	310	100	15	300	32	-	-
PIKE OR PICKEREL . . . . .	-	-	1,300	267	1,100	246	-	-
SMELT . . . . .	38,000	1,120	668,700	19,719	10,400	307	-	-
STURGEON . . . . .	-	-	300	271	200	201	-	-
SUCKERS . . . . .	200	8	1,900	77	12,200	485	-	-
WHITEFISH . . . . .	2,100	1,459	128,900	91,522	115,200	81,767	-	-
COMMON . . . . .	-	-	(1)	1	-	-	-	-
MENOMINEE . . . . .	-	-	100	9	22,200	4,121	10,800	2,011
YELLOW PERCH . . . . .	50,100	9,307	1,000	399	10,200	4,177	-	-
YELLOW PIKE . . . . .	100	31	1,000	-	-	-	-	-
TOTAL . . . . .	132,100	19,650	1,851,100	126,246	171,900	91,341	10,800	2,012

SPECIES	LAKE MICHIGAN - CONTINUED				MICHIGAN - CONTINUED			
	GILL NETS				GILL NETS			
	1-1/4 - 2 INCH MESH		2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH		7-1/8 - 14 INCH MESH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	800	\$11	1,400	\$22	(1)	(1)	-	-
BURBOT . . . . .	-	-	(1)	3	-	-	-	-
CARP . . . . .	-	-	(1)	(1)	2,500	\$82	10,200	\$336
CATFISH . . . . .	-	-	(1)	4	-	-	-	-
CHUBS . . . . .	-	-	1,092,400	212,880	(1)	3	-	-
GIZZARD SHAD . . . . .	-	-	(1)	(1)	-	-	-	-

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GREAT LAKES FISHERIES

## CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE MICHIGAN - CONTINUED							
	MICHIGAN - CONTINUED							
	GILL NETS							
	1-1/4 - 2 INCH MESH		2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH		7-1/8 - 14 INCH MESH	
LAKE HERRING . . . . .	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
LAKE TROUT . . . . .	-	-	16,700	\$1,953	{1}	\$4	-	-
PIKE OR PICKEREL . . . . .	-	-	100	29	{1}	13	-	-
ROCK BASS . . . . .	-	-	400	88	6,600	1,506	-	-
SAUGER . . . . .	-	-	{1}	2	-	-	-	-
SHEEPSHEAD . . . . .	-	-	{1}	1	400	38	-	-
SMELT . . . . .	9,400	\$278	(1)	(1)	(1)	1	-	-
STURGEON . . . . .	-	-	4,600	184	18,900	753	2,500	\$2,160
SUCKERS . . . . .	-	-	-	-	-	-	-	-
WHITEFISH: COMMON . . . . .	-	-	200	116	337,700	239,712	-	-
MENOMINEE . . . . .	-	-	8,800	2,012	300	73	-	-
YELLOW PERCH . . . . .	-	-	2,281,700	423,711	1,100	194	-	-
YELLOW PIKE . . . . .	-	-	(1)	7	17,900	7,275	(1)	5
TOTAL . . . . .	10,200	289	3,406,300	641,012	365,400	249,654	12,700	2,503
LAKE MICHIGAN - CONTINUED								
SPECIES	MICHIGAN - CONTINUED							
	LINES							
	HAND				LONG OR SET WITH HOOKS		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	-	-	-	-	-	-	3,329,700	\$50,611
BULLHEADS . . . . .	-	-	-	-	{1}	1	-	-
BURBOT . . . . .	-	-	-	-	{1}	3	-	-
CARP . . . . .	-	-	-	-	-	-	14,300	475
CATFISH . . . . .	-	-	-	-	{1}	4	-	-
CHUBS . . . . .	-	-	-	-	1,357,300	224,333	-	-
GIZZARD SHAD . . . . .	-	-	-	-	{1}	{1}	-	-
LAKE HERRING . . . . .	-	-	-	-	19,700	2,314	-	-
LAKE TROUT . . . . .	-	-	-	-	100	42	-	-
PIKE OR PICKEREL . . . . .	-	-	-	-	9,400	2,127	-	-
ROCK BASS . . . . .	-	-	-	-	{1}	2	-	-
SAUGER . . . . .	-	-	-	-	400	39	-	-
SHEEPSHEAD . . . . .	-	-	-	-	{1}	1	-	-
SMELT . . . . .	-	-	-	-	802,000	23,249	-	-
STURGEON . . . . .	-	-	200	\$174	3,200	2,806	-	-
SUCKERS . . . . .	-	-	-	-	38,000	1,513	-	-
WHITEFISH: COMMON . . . . .	-	-	-	-	584,100	414,576	-	-
MENOMINEE . . . . .	-	-	-	-	9,100	2,066	-	-
YELLOW PERCH . . . . .	100	\$24	-	-	2,366,200	439,397	-	-
YELLOW PIKE . . . . .	-	-	-	-	29,200	11,894	-	-
TOTAL . . . . .	100	24	200	174	8,562,700	1,175,473	-	-
LAKE MICHIGAN - CONTINUED								
SPECIES	INDIANA			ILLINOIS		WISCONSIN		
	GILL NETS			GILL NETS		HAUL SEINES		
	2-1/8 - 3-7/8 INCH MESH			2-1/8 - 3-7/8 INCH MESH				
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	(1)	\$1	3,400	\$51	-	-	1,201,700	\$24,035
CARP . . . . .	-	-	-	-	21,600	4,741	-	-
CHUBS . . . . .	-	-	-	-	1,400	162	-	-
LAKE HERRING . . . . .	-	-	-	-	-	-	-	-
SUCKERS . . . . .	(1)	1	618,000	106,910	-	-	-	-
YELLOW PERCH . . . . .	11,300	1,949	644,600	111,864	1,201,700	24,035	-	-

SEE FOOTNOTE AT END OF TABLE.

{CONTINUED ON NEXT PAGE}

# GREAT LAKES FISHERIES

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## CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE MICHIGAN - CONTINUED											
	WISCONSIN - CONTINUED											
	OTTER TRAWLS				POUND NETS		FYKE AND HOOP NETS					
	FISH FOR ANIMAL FOOD											
ALEWIVES . . . . .	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE				
BULLHEADS . . . . .	5,481,700	\$109,632	-	-	2,920,300	\$58,406	2,200	\$44				
BURBOT . . . . .	-	-	-	-	(1)	(1)	31,400	2,514				
CARP . . . . .	100	7	-	-	2,700	138	11,000	548				
CATFISH . . . . .	-	-	-	-	400	8	31,100	622				
CHUBS . . . . .	-	-	-	-	-	-	100	21				
LAKE HERRING . . . . .	1,401,500	42,045	124,500	\$28,631	-	-	(1)	(1)				
PIKE OR PICKEREL . . . . .	-	-	800	107	(1)	3	18,300	2,189				
SCULPIN . . . . .	2,400	49	-	-	-	-	-	-				
SMELT . . . . .	-	-	65,600	2,622	74,900	2,996	-	-				
SUCKERS . . . . .	-	-	-	-	22,700	907	120,500	4,819				
WHITEFISH, COMMON . . . . .	-	-	(1)	2	50,200	27,627	(1)	4				
YELLOW PERCH . . . . .	-	-	700	106	100	19	444,500	66,682				
YELLOW PIKE . . . . .	-	-	-	-	100	19	4,000	1,616				
TOTAL . . . . .	6,885,700	151,733	191,600	31,468	3,071,400	90,123	663,100	79,059				
LAKE MICHIGAN - CONTINUED												
SPECIES	WISCONSIN - CONTINUED											
	GILL NETS											
	1-1/4 - 2 INCH MESH			2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH						
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE				
ALEWIVES . . . . .	-	-	6,000	\$120	(1)	(1)	(1)	(1)				
BOWFIN . . . . .	-	-	200	17	-	-	-	-				
BULLHEADS . . . . .	-	-	(1)	1	700	\$33	-	-				
BURBOT . . . . .	-	-	100	2	2,500	49	-	-				
CARP . . . . .	-	-	(1)	7	-	-	-	-				
CATFISH . . . . .	-	-	2,265,900	489,466	1,100	205	-	-				
CHUBS . . . . .	-	-	11,900	1,537	700	92	-	-				
LAKE HERRING . . . . .	-	-	100	71	(1)	5	-	-				
LAKE TROUT . . . . .	-	-	100	8	(1)	5	-	-				
PIKE OR PICKEREL . . . . .	-	-	100	165	9,200	1,109	-	-				
SMELT . . . . .	15,500	\$617	4,100	165	6,500	262	-	-				
SUCKERS . . . . .	-	-	2,200	67	31,500	1,263	-	-				
WHITEFISH; COMMON . . . . .	-	-	-	-	142,700	78,479	-	-				
MENOMINEE . . . . .	-	-	2,400	509	-	-	-	-				
YELLOW PERCH . . . . .	-	-	2,394,100	359,110	100	7	-	-				
YELLOW PIKE . . . . .	-	-	400	161	1,600	656	-	-				
TOTAL . . . . .	15,500	617	4,687,500	851,263	196,600	82,160	-	-				
LAKE MICHIGAN - CONTINUED					LAKE SUPERIOR							
SPECIES	WISCONSIN - CONTINUED											
	GILL NETS - CONT'D.											
	7-1/8 - 14 INCH MESH				TOTAL	POUND NETS		TRAP NETS				
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE				
ALEWIVES . . . . .	-	-	8,410,200	\$168,202	-	-	-	-				
BOWFIN . . . . .	-	-	(1)	(1)	-	-	-	-				
BULLHEADS . . . . .	-	-	31,600	2,531	-	-	-	-				
BURBOT . . . . .	-	-	14,500	727	-	-	-	-				
CARP . . . . .	69,400	\$1,388	1,305,200	26,104	(1)	\$2	-	-				
CATFISH . . . . .	-	-	100	28	-	-	-	-				
CHUBS . . . . .	-	-	3,703,000	560,349	-	-	-	-				
LAKE HERRING . . . . .	-	-	13,400	1,736	10,500	275	(1)	(1)				
LAKE TROUT . . . . .	-	-	100	76	-	-	-	-				
PIKE OR PICKEREL . . . . .	-	-	27,600	3,309	-	-	(1)	\$3				
SCULPIN . . . . .	-	-	2,400	49	-	-	-	-				
SMELT . . . . .	-	-	166,600	6,662	251,300	14,912	-	-				

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GREAT LAKES FISHERIES

## CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE MICHIGAN - CONTINUED				LAKE SUPERIOR			
	WISCONSIN - CONTINUED				MICHIGAN			
	GILL NETS - CONT'D.		TOTAL		POUND NETS		TRAP NETS	
	7-1/8 - 14 INCH MESH							
SURGEON . . . . .	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SUCKERS . . . . .	-	-	175,900	\$7,076	100	\$60	-	-
WHITEFISH . . . . .	-	-			400	11	600	\$21
COMMON . . . . .	-	-	192,900	106,112	46,100	22,528	99,400	48,556
MENOMINEE . . . . .	-	-	2,400	509	-	-	-	-
YELLOW PERCH . . . . .	-	-	2,639,300	425,924	-	-	-	-
YELLOW PIKE . . . . .	-	-	6,100	2,452	100	39	100	15
TOTAL . . . . .	69,400	\$1,368	16,982,500	1,311,846	308,500	37,827	100,100	48,595
LAKE SUPERIOR - CONTINUED								
SPECIES	MICHIGAN - CONTINUED				GILL NETS			
	FYKE AND HOOP NETS		1-1/4 - 2 INCH MESH		2-1/8 - 3-7/8 INCH MESH			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE		
	ALEWIVES . . . . .	-	-	-	-	300	\$7	
BURBOT . . . . .	-	-	-	-	100	1		
CHUBS . . . . .	-	-	-	-	396,600	45,669		
LAKE HERRING . . . . .	-	-	800	\$47	4,648,200	269,530		
PIKE OR PICKEREL . . . . .	-	-	(1)	2		-		
SMELT . . . . .	-	-	204,700	12,143	(1)	1		
SUCKERS . . . . .	(1)	\$1	100	3	3,200	108		
WHITEFISH . . . . .	-	-						
COMMON . . . . .	-	-	200	44	100	54		
MENOMINEE . . . . .	-	-	-	-	9,700	2,123		
YELLOW PERCH . . . . .	-	-	-	-	16,800	2,962		
YELLOW PIKE . . . . .	-	-	-	-	(1)	2		
TOTAL . . . . .	(1)	1	205,600	12,239	5,075,000	320,577		
LAKE SUPERIOR - CONTINUED								
SPECIES	MICHIGAN - CONTINUED				WISCONSIN			
	GILL NETS - CONT'D.		TOTAL		POUND NETS		GILL NETS	
	4 - 7 INCH MESH				1-1/4 - 2 INCH MESH			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	(1)	(1)	300	\$7	(1)	\$1	-	-
BULLHEADS . . . . .	-	-	-	-	2	2	-	-
BURBOT . . . . .	400	\$9	500	10	{1}	1	-	-
CARP . . . . .	-	-	(1)	2	100	1	-	-
CHUBS . . . . .	(1)	2	396,600	45,671	-	-	-	-
LAKE HERRING . . . . .	4,600	270	4,664,100	270,222	(1)	2	(1)	(1)
LAKE TROUT . . . . .	63,600	42,466	63,600	42,466	-	-	-	-
PIKE OR PICKEREL . . . . .	700	9	100	14	(1)	1	-	-
SALMON . . . . .	(1)	15	(1)	15	-	-	-	-
SMELT . . . . .	100	4	456,100	27,060	500,000	19,998	12,400	\$494
SUCKERS . . . . .	14,700	498	19,000	642	14,900	597	-	-
WHITEFISH . . . . .	202,800	99,144	348,400	170,282	21,500	11,808	-	-
COMMON . . . . .	100	16	10,000	2,183	-	-	-	-
MENOMINEE . . . . .	(1)	1	16,800	2,983	-	-	-	-
YELLOW PERCH . . . . .	100	41	300	97	(1)	2	-	-
TOTAL . . . . .	286,700	142,475	5,976,100	561,714	536,500	32,412	12,400	494

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GREAT LAKES FISHERIES

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## CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE SUPERIOR - CONTINUED							
	WIISCONSIN - CONTINUED							
	GILL NETS - CONTINUED		DIP NETS		TOTAL			
	2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH					
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
ALEWIVES . . . . .	(1)	\$1	-	-	-	-	(1)	\$1
BULLHEADS . . . . .	-	-	-	-	-	-	(1)	1
BURBOT . . . . .	1,500	76	5,000	\$249	-	-	6,500	327
CARP . . . . .	-	-	600	13	-	-	6,700	14
CHUBS . . . . .	342,200	74,404	500	17	-	-	342,700	74,421
LAKE HERRING . . . . .	537,900	21,517	1,900	74	-	-	539,600	21,593
LAKE TROUT . . . . .	100	68	37,700	24,501	-	-	37,800	24,569
PIKE OR PICKEREL . . . . .	-	-	-	-	-	-	(1)	1
SMELT . . . . .	(1)	1	1,800	72	5,200	\$210	519,400	20,775
SUCKERS . . . . .	3,700	145	7,500	301	-	-	28,100	1,043
WHITEFISH: . . . . .								
COMMON . . . . .	200	100	55,400	30,492	-	-	77,100	42,400
MENOMINEE . . . . .	36,900	7,741	200	51	-	-	37,100	7,792
YELLOW PERCH . . . . .	100	16	-	-	-	-	100	16
YELLOW PIKE . . . . .	-	-	-	-	-	-	(1)	2
TOTAL. . . . .	922,600	104,069	110,600	55,770	5,200	210	1,587,300	192,955
SPECIES	LAKE SUPERIOR - CONTINUED							
	MINNESOTA							
	POUND NETS		GILL NETS, 2-1/8 - 3-7/8 INCH MESH		TOTAL			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BURBOT . . . . .	-	-	(1)	(1)	(1)	(1)	(1)	(1)
CHUBS . . . . .	-	-	50,100	\$5,000	50,100	\$5,000	-	-
LAKE HERRING . . . . .	-	-	982,600	68,700	982,600	68,700	-	-
SMELT . . . . .	1,044,700	\$20,900	-	200	8	200	1,044,700	20,900
SUCKERS . . . . .	-	-	-	8	-	-	-	8
WHITEFISH: . . . . .								
COMMON . . . . .	-	-	(1)	1	(1)	1	(1)	1
MENOMINEE . . . . .	-	-	100	150	100	150	-	-
TOTAL. . . . .	1,044,700	20,900	1,034,000	73,659	2,078,700	94,759	-	-
SPECIES	LAKE ST. CLAIR		LAKE OF THE WOODS					
	MICHIGAN		MINNESOTA					
	HAUL SEINES		OTTER TRAWLS		POUND NETS		TRAP NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BULLHEADS . . . . .	-	-	(1)	(1)	-	-	200	\$11
BURBOT. . . . .	-	-	57,700	\$3,456	200	\$18	108,000	6,467
CARP . . . . .	8,300	\$331	-	-	-	-	-	-
MOONEYE OR GOLDEYE . . . . .	-	-	-	-	-	-	100	1
PIKE OR PICKEREL . . . . .	-	-	-	-	1,900	74	12,500	491
SAUER. . . . .	-	-	25,500	2,245	200	16	15,100	1,275
SUCKERS . . . . .	-	-	10,200	204	700	13	14,000	27
TULLIFEE. . . . .	-	-	86,500	25,902	(1)	1	309,600	9,287
WHITEFISH, COMMON . . . . .	-	-	(1)	1	-	-	(1)	1
YELLOW PERCH. . . . .	-	-	5,100	400	100	6	3,200	248
YELLOW PIKE. . . . .	-	-	5,600	1,113	900	178	28,700	5,751
TOTAL. . . . .	8,300	331	968,600	33,321	4,000	306	478,700	23,559

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# GREAT LAKES FISHERIES

## CATCH BY LAKE, STATE, AND GEAR, 1964 - Continued

SPECIES	LAKE OF THE WOODS - CONTINUED					
	MINNESOTA - CONTINUED					
	FYKE AND HOOP NETS		GILL NETS, 4 - 7 INCH MESH		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH . . . . .	-	-	(1)	\$62	(1)	(1)
BULLHEADS . . . . .	100	\$3	1,400	1,700	1,700	\$76
BURBOT . . . . .	-	-	22,700	1,359	188,600	11,300
MOONEYE OR GOLDEYE . . . . .	-	-	(1)	1	100	2
PIKE OR PICKEREL . . . . .	(1)	1	61,700	2,434	76,100	3,000
QUILLBACK . . . . .	-	-	(1)	(1)	(1)	(1)
SAUGER . . . . .	(1)	4	26,700	2,260	68,500	5,800
SUCKERS . . . . .	(1)	(1)	219,100	4,376	231,300	4,620
TULLIBEE . . . . .	-	-	1,030,400	30,900	2,203,500	66,100
WHITEFISH, COMMON . . . . .	-	-	100	18	100	20
YELLOW PERCH . . . . .	(1)	1	3,200	245	11,600	900
YELLOW PIKE . . . . .	100	14	181,700	36,344	217,000	43,400
<b>TOTAL. . . . .</b>	<b>200</b>	<b>23</b>	<b>1,547,000</b>	<b>76,009</b>	<b>2,998,500</b>	<b>135,218</b>
SPECIES	NAMAKAN LAKE		RAINY LAKE			
	MINNESOTA		MINNESOTA			
	GILL NETS, 4 - 7 INCH MESH		POUND NETS		GILL NETS, 4 - 7 INCH MESH	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BURBOT . . . . .	4,100	\$124	7,700	\$231	12,700	\$361
PIKE OR PICKEREL . . . . .	-	-	-	-	5,900	295
SUCKERS . . . . .	8,000	241	300	8	21,800	661
TULLIBEE . . . . .	7,500	224	(1)	1	12,200	365
WHITEFISH, COMMON . . . . .	11,000	2,609	-	-	2,600	5,775
YELLOW PERCH . . . . .	-	-	(1)	1	(1)	4
YELLOW PIKE . . . . .	-	-	-	-	5,500	5,500
<b>TOTAL. . . . .</b>	<b>30,600</b>	<b>3,196</b>	<b>8,000</b>	<b>241</b>	<b>83,200</b>	<b>9,002</b>
					<b>91,200</b>	<b>9,243</b>

1/ LESS THAN 50 POUNDS OR 50 CENTS.



# SECTION 9 - MISSISSIPPI RIVER FISHERIES

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A complete survey of the Mississippi River and its tributaries was made in 1964. The commercial catch of fish and shellfish was 77.1 million pounds valued at \$7.4 million to the fishermen. Compared with 1963, this was a decline of 2.7 million pounds but the value remained the same as in the previous year. The reduced volume was largely the result of a decline in the take of mussel shells, principally for export to Japan. The more important species remained practically unchanged from the previous year.

Buffalofish, carp, catfish and bullheads, and sheepshead were the most important food species taken, accounting for 93 percent of the fish catch. Mussel shells were the leading shellfish item in both volume and value, followed by crawfish.

Wisconsin was the leading State in volume with 12.5 million pounds, followed by Minnesota, 11.1; Tennessee, 9.8; and Louisiana, 7.4 million pounds.

Tennessee was first in value with \$1,148,000, followed by Louisiana with \$1,099,000. The catch was made by 9,457 fishermen using 4 vessels, 7,929 motor boats, and 248 other boats. Compared with 1963, there were 170 more fishermen, but 130 less motor boats.

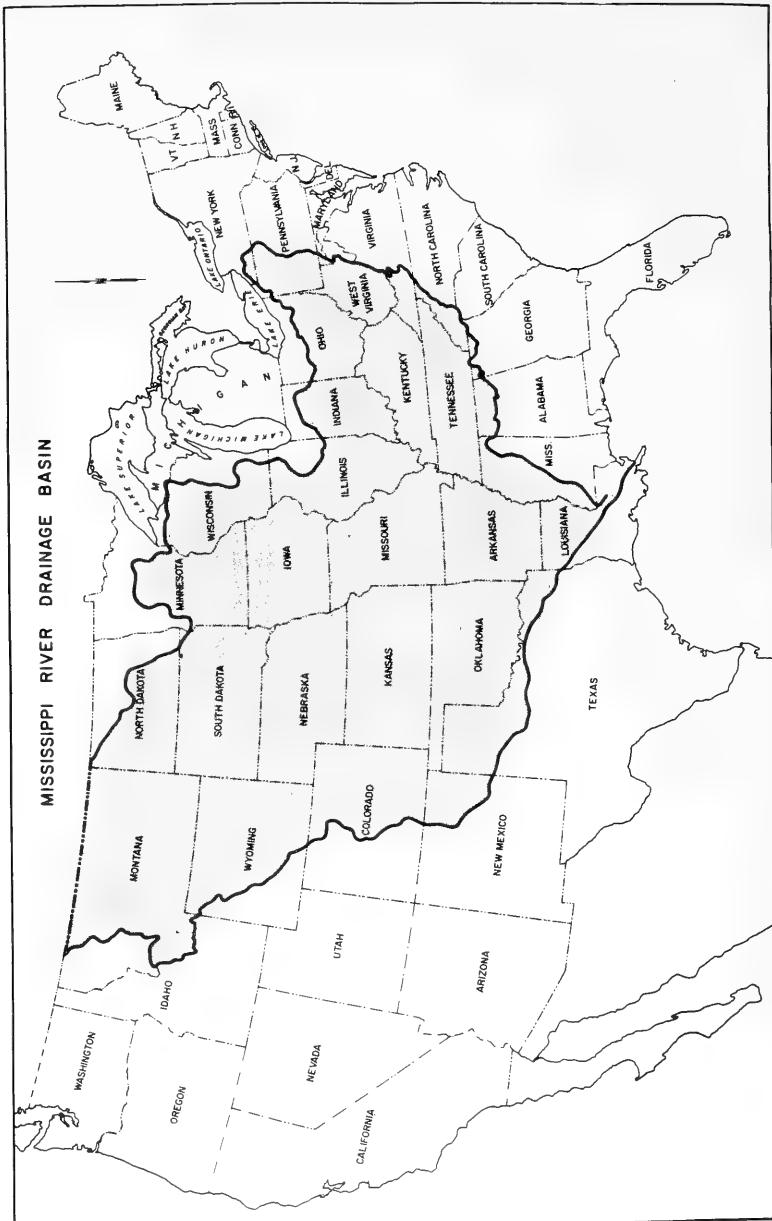
There was increased evidence of pollution in the major river systems resulting in increased fish kills. Producers of choice catfish were plagued by short supplies and were turning to pond-reared channel catfish for a constant source of supply. Drainage, reclamation, and changes in the river systems continued to add to the problems of the region.

In 1964, for the first time, the Mississippi River Section includes data from river systems not connected with or draining into the Mississippi River as its tributaries. For example, salmon are reported in the Section. These were taken from waters draining into the Pacific Ocean. Catches are also reported from river systems draining north into Hudson Bay and south into the Gulf of Mexico.

Condensed summary data on the operating units and catch by States of the Mississippi River fisheries appearing on the following pages have been previously published in Current Fishery Statistics No. 4106.

The following organizations assisted in collecting the data appearing in this section: Alabama Department of Conservation, Division of Game and Fish; Arizona Game and Fish Department; Arkansas Game and Fish Commission, Division of Fisheries; Colorado Game, Fish and Parks Department; Idaho Fish and Game Department; Illinois Department of Conservation, Division of Fisheries; Indiana Department of Conservation, Division of Fish and Game, Section of Fish Management; Iowa State Conservation Commission, Division of Fish and Game; Kansas Forestry, Fish and Game Commission, Fisheries Division; Kentucky Department of Fish and Wildlife Resources; Louisiana Wild Life and Fisheries Commission; Minnesota Department of Conservation, Division of Game and Fish, Section of Fisheries; Mississippi Game and Fish Commission; Missouri Conservation Commission; Montana Department of Fish and Game, Fisheries Management; Nebraska Game, Forestation and Parks Commission, Fishery Division; New Mexico Department of Game and Fish; North Dakota Game and Fish Department, Fisheries Division; Oklahoma Department of Wildlife Conservation, Division of Fisheries; South Dakota Department of Game, Fish and Parks; Tennessee Game and Fish Commission, Fish Management Division; Texas Game and Fish Commission, Inland Fisheries; Utah State Fish and Game Department; Wisconsin Conservation Department, Fish Management Division; Wyoming Game and Fish Commission; and the Tennessee Valley Authority, Fish and Game Branch.

# MISSISSIPPI RIVER FISHERIES



**MISSISSIPPI RIVER FISHERIES**  
**SECTIONAL SUMMARIES**  
**SUMMARY OF CATCH, 1964**  
(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

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STATE	FISH		SHELLFISH, ETC.		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALABAMA . . . . .	3,757	752	822	77	4,579	829
ARIZONA . . . . .	12	2	-	-	12	2
ARKANSAS . . . . .	3,696	477	135	18	4,031	495
COLORADO . . . . .	168	27	-	-	168	27
IDAHO . . . . .	1,231	66	-	-	1,231	66
ILLINOIS . . . . .	5,411	572	1,365	61	6,776	633
INDIANA . . . . .	40	6	1,800	124	1,840	130
IOWA . . . . .	3,737	300	(1)	(1)	3,737	300
KANSAS . . . . .	35	11	-	-	39	11
KENTUCKY . . . . .	1,151	195	265	13	1,466	209
LOUISIANA . . . . .	5,272	697	2,172	402	7,444	1,999
MINNESOTA . . . . .	11,144	723	(1)	2	11,147	723
MISSISSIPPI . . . . .	2,796	324	3	(1)	2,796	326
MISSOURI . . . . .	353	46	-	-	353	46
MONTANA . . . . .	237	16	-	-	237	16
NEBRASKA . . . . .	281	33	-	-	281	33
NEW MEXICO . . . . .	59	16	-	-	59	16
NORTH DAKOTA . . . . .	488	33	-	-	488	33
OKLAHOMA . . . . .	699	87	-	-	699	87
SOUTH DAKOTA . . . . .	3,203	188	-	-	3,208	188
TENNESSEE . . . . .	6,414	923	3,352	225	9,765	1,46
TEXAS . . . . .	1,048	123	3	(1)	1,101	123
UTAH . . . . .	2,852	87	108	54	3,960	141
WISCONSIN . . . . .	12,340	654	160	6	12,520	690
WYOMING . . . . .	293	12	-	-	293	12
TOTAL . . . . .	66,926	6,401	10,205	982	77,131	7,363

<sup>1/</sup> LESS THAN 500 POUNDS OR \$500.

**SUMMARY OF OPERATING UNITS, 1964**

ITEM	ALABAMA	ARKANSAS	ILLINOIS	INDIANA	IOWA	KANSAS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:						
REGULAR . . . . .	233	289	139	-	127	-
CASUAL . . . . .	301	780	450	186	398	13
TOTAL . . . . .	534	1,069	589	186	525	13
BOATS:						
MOTOR. . . . .	534	882	467	69	522	13
OTHER. . . . .	-	28	28	-	24	-
GEAR:						
HAUL SEINES, COMMON . . . . .	-	29	32	-	30	1
LENGTH, YARDS . . . . .	-	8,750	7,450	-	7,666	60
WEIRS. . . . .	-	-	-	-	12	-
FYKE AND HOOP NETS . . . . .	110	5,875	4,826	180	3,574	52
POTS AND TRAPS:						
TRAP. . . . .	-	-	-	-	4,173	-
WIRE BASKETS . . . . .	-	-	2,548	-	-	-
GILL NETS, ANCHOR, SET OR						
STAKE . . . . .	450	903	74	-	495	-
SQUARE YARDS . . . . .	119,700	179,395	13,038	-	34,666	-
TRAMMEL NETS . . . . .	60	502	341	-	252	14
SQUARE YARDS . . . . .	15,960	111,115	66,275	-	50,000	1,500
LINES:						
LONG OR SET WITH HOOKS . . . . .	3,475	3,520	768	78	1,791	100
HOOKS. . . . .	347,500	179,920	71,200	4,020	179,100	836
SNAGS. . . . .	925	759	-	-	-	-
HOOKS. . . . .	462,000	312,400	45	-	-	-
DIP NETS, COMMON . . . . .	-	-	-	-	-	-
CROWFOOT BARS. . . . .	252	10	77	33	2	2
ITEM	KENTUCKY	LOUISIANA	MINNESOTA	MISSISSIPPI	MISSOURI	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
FISHERMEN, ON BOATS AND SHORE:						
REGULAR. . . . .	257	611	294	212	28	
CASUAL . . . . .	395	870	340	407	242	
TOTAL . . . . .	652	1,481	634	619	270	
BOATS:						
MOTOR. . . . .	368	1,471	277	549	266	
OTHER. . . . .	-	-	55	21	1	
GEAR:						
HAUL SEINES, COMMON . . . . .	-	3	39	31	3	
LENGTH, YARDS . . . . .	-	2,200	27,131	10,400	700	
WEIRS. . . . .	-	-	40	-	-	
POUND NETS . . . . .	-	-	17	-	-	
FYKE AND HOOP NETS . . . . .	2,683	26,018	1,767	3,135	1,066	
POTS AND TRAPS:						
CRAWFISH . . . . .	-	20,980	-	-	-	
SHRIMP . . . . .	-	560	-	-	-	
GILL NETS, ANCHOR, SET OR						
STAKE . . . . .	42	2,165	238	881	-	
SQUARE YARDS . . . . .	8,800	587,864	342,400	339,280	-	

(CONTINUED ON NEXT PAGE)

# MISSISSIPPI RIVER FISHERIES

## SUMMARY OF OPERATING UNITS, 1964 - Continued

ITEM	KENTUCKY	LOUISIANA	MINNESOTA	MISSISSIPPI	MISSOURI
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
GEAR - CONTINUED:					
TRAMMEL NETS . . . . .	130	1,321	-	155	179
SQUARE YARDS . . . . .	24,724	232,424	-	51,090	30,730
LINES:					
HAND . . . . .	-	97	-	-	-
HOOKS . . . . .	-	97	-	-	-
LONG OR SET WITH HOOKS . . . . .	758	2,111	44	1,370	173
HOOKS . . . . .	55,838	314,525	10,188	346,200	16,724
SNAG . . . . .	155	-	-	345	-
DIP NETS:					
COMMON . . . . .	-	182	-	25	-
DROP . . . . .	-	315	-	-	-
CROWFOOT BARS . . . . .	66	-	-	-	-
GRABS, FROG . . . . .	-	198	-	-	-
ITEM	MONTANA	NEBRASKA	NORTH DAKOTA	OKLAHOMA	SOUTH DAKOTA
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:					
REGULAR . . . . .	5	30	8	76	33
CASUAL . . . . .	6	106	17	58	32
TOTAL . . . . .	11	136	25	134	65
BOATS:					
MOTOR . . . . .	8	111	5	134	20
OTHER . . . . .	2	25	-	-	10
GEAR:					
HAUL SEINES, COMMON . . . . .	2	25	1	-	7
LENGTH, YARDS . . . . .	600	2,635	1,000	-	5,067
FYKE AND HOOP NETS . . . . .	18	856	70	-	173
POTS AND TRAPS, FISH . . . . .	-	240	-	-	-
GILL NETS, ANCHOR, SET OR					
STAKE . . . . .	10	-	12	472	33
SQUARE YARDS . . . . .	16,660	-	1,700	191,192	13,200
TRAMMEL NETS . . . . .	-	158	-	70	-
SQUARE YARDS . . . . .	-	23,867	-	18,550	-
ITEM	TENNESSEE	TEXAS	WISCONSIN	WYOMING	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:					
ON VESSELS . . . . .	-	-	12	-	12
ON BOATS AND SHORE:					
REGULAR . . . . .	544	148	211	-	3,245
CASUAL . . . . .	723	348	526	2	6,200
TOTAL . . . . .	1,267	496	749	2	9,457
VESSELS, MOTOR . . . . .	-	-	4	-	4
GROSS TONNAGE . . . . .	-	-	55	-	55
BOATS:					
MOTOR . . . . .	1,263	428	540	2	7,929
OTHER . . . . .	-	-	54	-	248
GEAR:					
HAUL SEINES, COMMON . . . . .	-	-	49	1	253
LENGTH, YARDS . . . . .	-	-	23,837	100	97,596
OTTER TRAWLS, FISH . . . . .	-	-	6	-	6
YARDS AT MOUTH . . . . .	-	-	95	-	95
WEIRS . . . . .	-	-	3	-	55
POUND NETS . . . . .	-	-	-	-	17
TRAP NETS . . . . .	-	-	164	-	164
FYKE AND HOOP NETS . . . . .	4,521	788	1,523	-	57,453
POTS AND TRAPS:					
CRAWFISH . . . . .	-	-	-	-	20,980
FISH . . . . .	-	-	-	-	4,413
SHRIMP . . . . .	-	-	-	-	560
WIRE BASKETS . . . . .	-	-	-	-	2,548
GILL NETS, ANCHOR, SET OR					
STAKE . . . . .	238	970	117	-	7,100
SQUARE YARDS . . . . .	56,665	207,690	48,520	-	2,160,970
TRAMMEL NETS . . . . .	770	66	7	-	4,025
SQUARE YARDS . . . . .	204,659	13,200	1,100	-	845,194
LINES:					
HAND . . . . .	-	-	-	-	-
HOOKS . . . . .	-	-	-	-	97
LONG OR SET WITH HOOKS . . . . .	4,824	1,182	399	-	97
HOOKS . . . . .	441,740	88,650	113,945	-	20,593
SNAG . . . . .	1,529	-	-	-	2,170,366
HOOKS . . . . .	723,800	-	-	-	3,713
DIP NETS:					
COMMON . . . . .	3	-	2	-	2,012,149
DROP . . . . .	-	-	-	-	257
CROWFOOT BARS . . . . .	523	-	26	-	315
GRABS, FROG . . . . .	-	-	-	-	967
					198

NOTE:--DATA ARE NOT AVAILABLE ON OPERATING UNITS IN ARIZONA, COLORADO, IDAHO, NEW MEXICO, AND UTAH.

## MISSISSIPPI RIVER FISHERIES

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### CATCH BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)						
SPECIES	ALABAMA		ARIZONA		ARKANSAS	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN.	-	-	-	-	6	(1)
BUFFALOFISH	614	74	12	2	2,620	306
CARP.	362	18	-	-	445	18
CATFISH AND BULLHEADS	2,480	620	-	-	424	127
GARFISH	-	-	-	-	197	10
PADDLEFISH	192	29	-	-	35	3
QUILLBACK	5	1	-	-	18	1
SHEEPSHEAD.	104	10	-	-	122	11
STURGEON, SHOVELNOSE.	-	-	-	-	8	1
SUCKERS	-	-	-	-	11	(1)
TOTAL FISH	3,757	752	12	2	3,896	477
SHELLFISH, ETC.						
MUSSEL SHELLS	822	76	-	-	76	2
PEARLS AND SLUGS	-	1	-	-	-	-
TURTLES;						
BABY.	-	-	-	-	3	13
SLIDER.	-	-	-	-	31	1
SNAPPER	-	-	-	-	25	2
TOTAL SHELLFISH, ETC.	822	77	-	-	135	18
GRAND TOTAL	4,579	829	12	2	4,031	495
SPECIES	COLORADO		IDAHO		ILLINOIS	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN.	-	-	-	-	5	(1)
BUFFALOFISH	-	-	-	-	1,690	166
CARP.	160	5	730	18	1,941	93
CATFISH AND BULLHEADS	-	-	-	-	1,051	262
CRAPPIE	-	-	-	-	(1)	{1}
EELS, COMMON	-	-	-	-	1	{1}
GARFISH	-	-	-	-	15	1
MINNOWS	-	-	-	-	(1)	(1)
MINNOWS	2	19	-	-	2	-
PADDLEFISH	-	-	-	-	77	7
QUILLBACK	-	-	-	-	85	3
SALMON, RED OR SOCKEYE	-	-	74	37	-	-
SHEEPSHEAD.	-	-	-	-	523	37
STURGEON, SHOVELNOSE.	-	-	-	-	18	3
SUCKERS	-	-	427	11	5	(1)
UNCLASSIFIED, FOR FOOD	6	3	-	-	-	-
TOTAL FISH	168	27	1,231	66	5,411	572
SHELLFISH, ETC.						
MUSSEL SHELLS	-	-	-	-	1,358	59
PEARLS AND SLUGS	-	-	-	-	-	1
TURTLES, SNAPPER	-	-	-	-	7	1
TOTAL SHELLFISH, ETC.	-	-	-	-	1,365	61
GRAND TOTAL	168	27	1,231	66	6,776	633
SPECIES	INDIANA		IOWA		KANSAS	
FISH	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN.	-	-	1	(1)	-	-
BUFFALOFISH	21	3	886	76	5	1
CARP.	1	(1)	1,510	40	28	7
CATFISH AND BULLHEADS	13	3	741	152	6	3
GARFISH	-	-	8	(1)	-	-
PADDLEFISH	-	-	22	2	(1)	{1}
QUILLBACK	-	-	(1)	(1)	{1}	{1}
SHEEPSHEAD.	3	(1)	444	27	-	-
STURGEON, SHOVELNOSE.	2	(1)	9	1	-	-
SUCKERS	-	-	116	2	(1)	(1)
TOTAL FISH	40	6	3,737	300	39	11

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# MISSISSIPPI RIVER FISHERIES

## CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	INDIANA		IOWA		KANSAS	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
SHELLFISH, ETC.						
MUSSEL SHELLS . . . . .	1,800	122	-	-	-	-
PEARLS AND SLUGS . . . . .	-	2	(1)	(1)	-	-
TURTLES, SNAPPER . . . . .	-	-	-	-	-	-
TOTAL SHELLFISH, ETC..	1,800	124	(1)	(1)	-	-
GRAND TOTAL. . . . .	1,840	130	3,737	300	39	11
SPECIES	KENTUCKY		LOUISIANA		MINNESOTA	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FISH						
BOWFIN . . . . .	-	-	75	3	16	(1)
BUFFALO FISH. . . . .	212	25	2,463	245	780	65
BURBOT . . . . .	-	-	-	-	16	(1)
CARP. . . . .	258	13	147	5	6,095	152
CATFISH AND BULLHEADS. . . . .	604	153	1,738	378	2,226	135
CRAPPIE. . . . .	-	-	-	-	2	1
GARFISH. . . . .	-	-	333	17	12	(1)
MONKEYE. . . . .	-	-	-	-	12	2
PADDLEFISH . . . . .	11	2	22	1	-	-
PIKE OR PICKEREL . . . . .	-	-	-	-	93	13
QUILLBACK. . . . .	19	1	-	-	2	(1)
SHEEPSHEAD. . . . .	30	1	494	48	741	26
STURGEON, SHOVELNOSE	2	(1)	-	-	-	-
SUCKERS. . . . .	15	1	-	-	41	1
TUNA, TEEBEE . . . . .	-	-	-	-	(1)	(1)
WHITE BASS . . . . .	-	-	-	-	57	4
WHITEFISH, COMMON	-	-	-	-	132	52
YELLOW PERCH . . . . .	-	-	-	-	279	65
YELLOW PIKE. . . . .	-	-	-	-	638	207
TOTAL FISH . . . . .	1,151	196	5,272	697	11,144	723
SHELLFISH, ETC.						
CRAWFISH . . . . .	-	-	1,987	330	-	-
SHRIMP . . . . .	-	-	17	4	-	-
MUSSEL SHELLS. . . . .	265	12	-	-	-	-
PEARLS AND SLUGS . . . . .	-	1	-	-	-	-
TURTLES:						
BABY. . . . .	-	-	8	33	-	-
SNAPPER. . . . .	-	-	110	18	3	(1)
FROGS. . . . .	-	-	50	17	-	-
TOTAL SHELLFISH, ETC..	265	13	2,172	402	3	(1)
GRAND TOTAL. . . . .	1,416	209	7,444	1,099	11,147	723
SPECIES	MISSISSIPPI		MISSOURI		MONTANA	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FISH						
BOWFIN . . . . .	3	(1)	-	-	-	-
BUFFALO FISH. . . . .	1,772	185	141	20	121	13
CARP. . . . .	421	18	128	8	110	2
CATFISH AND BULLHEADS. . . . .	479	114	49	15	4	1
EELS. . . . .	-	-	(1)	(1)	-	-
GARFISH. . . . .	60	3	-	-	-	-
PADDLEFISH . . . . .	17	1	3	(1)	-	-
QUILLBACK. . . . .	3	(1)	7	(1)	-	-
SHEEPSHEAD. . . . .	41	3	19	2	1	(1)
STURGEON, SHOVELNOSE	(1)	(1)	4	1	1	(1)
SUCKERS. . . . .	-	-	2	(1)	-	-
TOTAL FISH . . . . .	2,796	324	353	46	237	16
SHELLFISH, ETC.						
TURTLES, BABY. . . . .	(1)	2	-	-	-	-
GRAND TOTAL. . . . .	2,796	326	353	46	237	16

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# MISSISSIPPI RIVER FISHERIES

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## CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	NEBRASKA		NEW MEXICO		NORTH DAKOTA	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FISH						
BUFFALOFISH . . . . .	9	2	58	16	93	5
CARP . . . . .	173	17	1	(1)	77	3
CATFISH AND BULLHEADS . . . . .	41	13	-	-	309	25
GOLDFISH . . . . .	-	-	-	-	2	(1)
QUILLBACK . . . . .	44	-	-	-	-	-
SHEEPSHEAD . . . . .	14	{1}	-	-	-	-
STURGEON, SHOVelnose, . . . . .	(1)	{1}	-	-	-	-
SUCKERS . . . . .	-	-	-	-	7	(1)
TOTAL FISH. . . . .	281	33	59	16	488	33
GRAND TOTAL . . . . .	281	33	59	16	488	33
SPECIES	OKLAHOMA		SOUTH DAKOTA		TENNESSEE	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FISH						
BOWFIN . . . . .	-	-	-	-	29	1
BUFFALOFISH . . . . .	398	48	1,746	157	1,700	198
CARP . . . . .	157	8	1,234	19	1,479	70
CATFISH AND BULLHEADS . . . . .	70	22	202	12	2,259	560
CRAPPIE . . . . .	-	-	-	-	13	3
GARFISH . . . . .	5	(1)	-	-	7	(1)
PADDLEFISH . . . . .	13	1	-	-	426	64
QUILLBACK . . . . .	5	(1)	-	-	229	13
SHEEPSHEAD . . . . .	36	5	5	(1)	268	14
STURGEON, SHOVelnose. . . . .	-	-	-	-	(1)	{1}
SUCKERS . . . . .	-	-	21	(1)	3	{1}
WHITE BASS . . . . .	15	3	-	-	-	(1)
YELLOW BASS . . . . .	-	-	-	-	1	(1)
TOTAL FISH. . . . .	699	87	3,208	188	6,414	923
SHELLFISH, ETC.						
MUSSEL SHELLS . . . . .	-	-	-	-	3,352	216
PEARLS AND SLUGS . . . . .	-	-	-	-	-	7
TURTLES, BABY . . . . .	-	-	-	-	(1)	2
TOTAL SHELLFISH, ETC.	-	-	-	-	3,352	225
GRAND TOTAL . . . . .	699	87	3,208	188	9,766	1,148
SPECIES	TEXAS		UTAH		WISCONSIN	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FISH						
BOWFIN . . . . .	-	-	-	-	8	(1)
BUFFALOFISH . . . . .	764	64	-	-	1,294	142
BURBOT . . . . .	-	-	-	-	53	1
CARP . . . . .	54	3	2,766	83	7,463	224
CATFISH AND BULLHEADS . . . . .	95	29	-	-	761	161
EELS, COMMON . . . . .	-	-	-	-	(1)	{1}
GOLDFISH . . . . .	113	6	-	-	26	{1}
MOONEYE . . . . .	-	-	-	-	13	{1}
QUILLBACK . . . . .	2	(1)	-	-	19	{1}
SHEEPSHEAD . . . . .	14	2	-	-	2,549	153
STURGEON, SHOVelnose. . . . .	-	-	-	-	2	(1)
SUCKERS . . . . .	6	(1)	86	4	132	3
TOTAL FISH. . . . .	1,048	123	2,852	87	12,340	684
SHELLFISH, ETC.						
ARTEMIA (BRINE SHRIMP) EGGS . . . . .	-	-	108	54	-	-
MUSSEL SHELLS . . . . .	-	-	-	-	174	5
TURTLES, SNAPPER, . . . . .	3	(1)	-	-	6	1
TOTAL SHELLFISH, ETC.	3	(1)	108	54	180	6
GRAND TOTAL. . . . .	1,051	123	2,960	141	12,520	690

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# MISSISSIPPI RIVER FISHERIES

## CATCH BY STATES, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	WYOMING		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE
FISH				
BOWFIN . . . . .	-	-	143	4
BUFFALO FISH . . . . .	-	-	17,399	1,833
BURBOT . . . . .	-	-	69	1
CARP . . . . .	198	6	25,938	830
CATFISH AND BULLHEADS . . . . .	-	-	13,574	2,784
CRAPPIE . . . . .	-	-	15	4
EELS, COMMON . . . . .	-	-	1	(1)
GARFISH . . . . .	-	-	776	37
MINKFISH . . . . .	-	-	2	19
MOONFISH . . . . .	-	-	25	2
PADDLEFISH . . . . .	-	-	820	110
PIKE OR PICKEREL . . . . .	-	-	93	13
QUILLBACK . . . . .	-	-	441	20
SALMON, RED OR SOCKEYE . . . . .	-	-	74	37
SHEEPSHEAD . . . . .	95	6	5,512	345
STURGEON, SHOVELNOSE . . . . .	-	-	43	6
SUCKERS . . . . .	-	-	873	22
TULLIBEE . . . . .	-	-	(1)	(1)
WHITE BASS . . . . .	-	-	72	7
WHITEFISH, COMMON . . . . .	-	-	132	52
YELLOW BASS . . . . .	-	-	1	(1)
YELLOW WITCH . . . . .	-	-	279	65
YELLOW PIKE . . . . .	-	-	638	207
UNCLASSIFIED, FOR FOOD . . . . .	-	-	6	3
TOTAL FISH . . . . .	293	12	66,926	6,401
SHELLFISH, ETC.				
ARTEMIA (BRINE SHRIMP) EGGS . . . . .	-	-	106	54
CRAWFISH . . . . .	-	-	1,987	330
SHRIMP . . . . .	-	-	17	4
MUSSEL SHELLS . . . . .	-	-	7,847	492
PEARLS AND SLUGS . . . . .	-	-	-	12
TURTLES:				
BABY . . . . .	-	-	11	50
SLIDER . . . . .	-	-	31	1
SNAPPER . . . . .	-	-	154	22
FROGS . . . . .	-	-	50	17
TOTAL SHELLFISH, ETC.	-	-	10,205	962
GRAND TOTAL . . . . .	293	12	77,131	7,363

1/ LESS THAN 500 POUNDS OR \$500.



CARP

# MISSISSIPPI RIVER FISHERIES

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## SUMMARY OF CATCH BY MAJOR WATERS OF CERTAIN INLAND DRAINAGE AREAS, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA					
	MISSISSIPPI RIVER PROPER		ATCHAFALAYA RIVER AREA		RED RIVER AREA	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN . . . . .	10	(1)	10	(1)	54	2
BUFFALO FISH . . . . .	2,470	255	854	75	2,005	22
CARP . . . . .	6,790	225	27	1	199	9
CATFISH AND BULLHEADS . . . . .	2,341	538	1,107	226	563	152
CRAPPIE . . . . .	{1}	{1}	-	-	-	-
EELS, COMMON . . . . .	1	{1}	-	-	-	-
GARFISH . . . . .	27	1	114	6	223	11
MOONEYE . . . . .	8	(1)	-	-	-	-
PADDLEFISH . . . . .	97	9	2	(1)	19	1
QUILLBACK . . . . .	43	1	-	-	4	(1)
SHEEPSHEAD . . . . .	1,429	92	240	24	139	20
STURGEON, SHOVELNOSE . . . . .	27	5	-	-	-	-
SUCKERS . . . . .	172	4	-	-	6	{1}
WHITE BASS . . . . .	-	-	-	-	1	{1}
CRAYFISH . . . . .	6	1	1,781	291	120	22
SHRIMP . . . . .	8	2	9	2	-	-
MUSSEL SHELLS . . . . .	174	5	-	-	-	-
TURTLES: . . . . .	-	-	2	8	5	22
BABY . . . . .	-	-	-	-	-	-
SNAPPER . . . . .	16	2	10	2	78	13
FROGS . . . . .	5	2	21	7	22	7
TOTAL . . . . .	13,624	1,142	4,177	642	3,518	466

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA - CONTINUED					
	ARKANSAS RIVER AREA		OHIO RIVER DRAINAGE AREA			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN . . . . .	3	(1)	-	-	(1)	(1)
BUFFALO FISH . . . . .	1,631	163	160	19	30	3
CARP . . . . .	264	11	168	6	27	2
CATFISH AND BULLHEADS . . . . .	28%	91	234	60	19	5
EELS, COMMON . . . . .	-	-	-	-	(1)	{1}
GARFISH . . . . .	56	3	-	-	2	{1}
PADDLEFISH . . . . .	37	3	7	1	1	{1}
QUILLBACK . . . . .	11	(1)	15	1	6	1
SHEEPSHEAD . . . . .	90	8	29	2	3	1
STURGEON, SHOVELNOSE . . . . .	6	1	3	(1)	3	{1}
SUCKERS . . . . .	4	(1)	9	1	(1)	{1}
WHITE BASS . . . . .	14	3	-	-	-	-
MUSSEL SHELLS . . . . .	76	2	56	2	2,400	162
PEARLS AND SLUGS . . . . .	-	-	-	-	-	3
TURTLES, SNAPPER . . . . .	10	(1)	-	-	-	-
TOTAL . . . . .	2,487	305	681	94	2,491	177

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA - CONTINUED					
	TENNESSEE RIVER AREA		OHIO RIVER DRAINAGE AREA - CONTINUED		UNCLASSIFIED	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BUFFALO FISH . . . . .	1,649	190	91	13	43	c
CARP . . . . .	1,351	63	133	7	31	2
CATFISH AND BULLHEADS . . . . .	4,447	1,108	101	26	32	c
GARFISH . . . . .	7	(1)	-	-	-	-
PADDLEFISH . . . . .	614	92	2	{1}	2	{1}
QUILLBACK . . . . .	229	13	6	{1}	1	{1}
SHEEPSHEAD . . . . .	295	20	22	2	-	{1}
STURGEON, SHOVELNOSE . . . . .	-	-	1	{1}	-	{1}
SUCKERS . . . . .	-	-	4	{1}	7	{1}
MUSSEL SHELLS . . . . .	4,224	295	90	3	97	c
PEARLS AND SLUGS . . . . .	-	9	-	-	-	-
TOTAL . . . . .	12,816	1,790	449	c1	218	2-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# MISSISSIPPI RIVER FISHERIES

## SUMMARY OF CATCH BY MAJOR WATERS OF CERTAIN INLAND DRAINAGE AREAS, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA - CONTINUED					
	ILLINOIS RIVER AREA		MISSOURI RIVER AREA		ST. CROIX RIVER AREA	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFISH . . . . .	2	(1)	-	-	-	-
BUFFALOFISH . . . . .	658	52	2,003	181	11	1
CARP . . . . .	742	32	1,052	38	446	12
CATFISH AND BULLHEADS . . . . .	130	30	547	55	-	-
EELS, COMMON . . . . .	(1)	(1)	(1)	(1)	-	-
GARFISH . . . . .	7	(1)	5	1	4	(1)
PADDLEFISH . . . . .	-	-	4	(1)	-	-
QUILLBACK . . . . .	3	(1)	12	1	54	3
SHEEPSHEAD . . . . .	39	3	1	(1)	-	-
STURGEON, SHOVELNOSE . . . . .	-	-	27	1	1	(1)
SUCKERS . . . . .	-	-	-	-	-	-
MUSSEL SHELLS . . . . .	730	18	-	-	-	-
TURTLES, SNAPPER . . . . .	1	(1)	-	-	-	-
TOTAL . . . . .	2,312	135	3,651	277	516	16

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA - CONTINUED		NORTHERN DRAINAGE AREA			
	UNCLASSIFIED		RED RIVER OF THE NORTH		LAKE WINNEBAGO	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
BOWFIN . . . . .	68	2	4	(1)	(1)	(1)
BUFFALOFISH . . . . .	5,248	558	16	1	-	-
BURBOT . . . . .	42	1	2	(1)	25	(1)
CARP . . . . .	10,116	285	1,008	30	50	2
CATFISH AND BULLHEADS . . . . .	3,101	438	647	47	-	-
CRAPPIE . . . . .	13	3	2	1	(1)	(1)
GARFISH . . . . .	240	11	-	-	-	-
MINNOWS . . . . .	2	19	-	-	-	-
MOONEYE . . . . .	5	(1)	12	2	(1)	(1)
PADDLEFISH . . . . .	34	3	93	13	-	-
PIKE OR PICKEREL . . . . .	-	-	-	-	-	-
QUILLBACK . . . . .	118	4	-	-	-	-
SHEEPSHEAD . . . . .	968	46	171	6	1,952	117
STURGEON, SHOVELNOSE . . . . .	2	(1)	-	-	(1)	(1)
SUCKERS . . . . .	115	2	11	(1)	(1)	(1)
TULLIBEE . . . . .	(1)	(1)	-	-	-	-
WHITE BASS . . . . .	57	4	-	-	-	-
WHITEFISH, COMMON . . . . .	-	-	124	49	-	-
YELLOW BASS . . . . .	1	(1)	-	-	-	-
YELLOW PERCH . . . . .	38	9	241	56	-	-
YELLOW PIKE . . . . .	-	-	638	207	-	-
UNCLASSIFIED, FOR FOOD . . . . .	6	3	-	-	-	-
CRAWFISH . . . . .	60	16	-	-	-	-
TURTLES;						
BABY . . . . .	4	20	-	-	-	-
SLIDER . . . . .	31	1	-	-	-	-
SNAPPER . . . . .	38	5	(1)	(1)	-	-
FROGS . . . . .	2	1	-	-	-	-
TOTAL . . . . .	20,321	1,431	2,969	412	2,027	119

SPECIES	NORTHERN DRAINAGE AREA - CONTINUED		GULF OF MEXICO DRAINAGE AREA	PACIFIC DRAINAGE AREA (INCLUDING GREAT BASIN)			
	UNCLASSIFIED			QUANTITY	VALUE	QUANTITY	
	QUANTITY	VALUE		QUANTITY	VALUE	QUANTITY	
BUFFALOFISH . . . . .	-	-	518	67	12	3	
BURBOT . . . . .	(1)	(1)	-	-	-	-	
CARP . . . . .	-	-	38	2	3,496	101	
GARFISH . . . . .	-	-	96	5	-	-	
QUILLBACK . . . . .	-	-	2	(1)	-	-	
SAFETY, RED OR SOCKEYE . . . . .	-	-	-	-	74	37	
SHEEPSHEAD . . . . .	-	-	4	(1)	-	-	
SUCKERS . . . . .	1	(1)	2	(1)	514	14	
WHITEFISH, COMMON . . . . .	8	3	-	-	108	54	
ARTEMIA (BRINE SHRIMP) EGGS . . . . .	-	-	-	-	-	-	
TURTLES, SNAPPER . . . . .	-	-	1	(1)	-	-	
TOTAL . . . . .	9	3	661	74	4,204	209	

1/ LESS THAN 500 POUNDS OR \$500.

# MISSISSIPPI RIVER FISHERIES

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## MANUFACTURED FISHERY PRODUCTS, 1964

ITEM			QUANTITY	VALUE
BUFFALOFISH, SMOKED . . . . .	IOWA	POUNDS	(1)	(1)
CARP:				
FILLETS, FRESH AND FROZEN . . . . .	IOWA, ILLINOIS, WISCONSIN	DO	1,570,000	\$325,450
SMOKED . . . . .	IOWA, ILLINOIS, WISCONSIN, MINNESOTA	DO	168,940	50,304
CATFISH:				
FILLETS:				
FROZEN . . . . .	ILLINOIS	DO	(1)	(1)
BREADED, FROZEN . . . . .	ILLINOIS	DO	(1)	(1)
SMOKED . . . . .	IOWA	DO	(1)	(1)
COD:				
SMOKED . . . . .	NORTH DAKOTA	DO	(1)	(1)
LUTEFISK . . . . .	MINNESOTA	DO	(1)	(1)
FLOUNDER SPECIALTIES, FROZEN				
(STUFFED) . . . . .	TEXAS	DO	(1)	(1)
HALLIBUT, SMOKED . . . . .	IOWA, NORTH DAKOTA, NEBRASKA	DO	27,300	21,245
HERRING, FRIED . . . . .	MINNESOTA	DO	1,387,900	421,542
LAKE TROUT, SMOKED . . . . .	MINNESOTA	DO	(1)	(1)
PADDLEFISH, SMOKED . . . . .	IOWA, ILLINOIS	DO	7,340	5,120
SALMON, SMOKED . . . . .	IOWA, NORTH DAKOTA, NEBRASKA	DO	50,800	53,675
STURGEON, SMOKED . . . . .	IOWA, ILLINOIS	DO	37,370	34,545
WHITEFISH, SMOKED . . . . .	MINNESOTA, NORTH DAKOTA	DO	7,500	3,757
WHITING, SMOKED . . . . .	IOWA, NEBRASKA	DO	97,500	39,825
CRAB SPECIALTIES, FROZEN (DEVILED)	TEXAS	DO	(1)	(1)
CRAWFISH, COOKED MEAT, FRESH . . . . .	LOUISIANA	DO	(1)	(1)
SHRIMP, FROZEN:				
RAW, HEADLESS . . . . .	TEXAS	DO	(1)	(1)
PEELED AND deveined:				
RAW . . . . .	TEXAS, TENNESSEE	DO	(1)	(1)
COOKED . . . . .	TEXAS	DO	(1)	(1)
BREADED, RAW . . . . .	TEXAS, TENNESSEE, OKLAHOMA, ARIZONA	DO	5,965,485	3,695,548
SPECIALTIES (STUFFED)	TEXAS	DO	(1)	(1)
OYSTERS, FROZEN:				
BREADED . . . . .	TENNESSEE	DO	(1)	(1)
SPECIALTIES (STUFFED)	TEXAS	DO	(1)	(1)
SCALLOPS, BREADED, FROZEN . . . . .	TENNESSEE	DO	(1)	(1)
TURTLE:				
MEAT, FRESH . . . . .	ILLINOIS	DO	(1)	(1)
Soup, Canned . . . . .	OHIO	STANDARD CASES	(1)	(1)
MUSSEL SHELL:				
BUTTONS . . . . .	IOWA	GROSS TONS	223,300	242,356
LIME AND CHIPS . . . . .	IOWA, ILLINOIS	TONS	1,473	49,677
UNCLASSIFIED, PACKAGED FROZEN:				
STICKS . . . . .	TENNESSEE, ARIZONA, MISSOURI	POUNDS	6,758,172	2,731,296
PORTIONS . . . . .	TENNESSEE, OKLAHOMA, ARIZONA, MISSOURI, KENTUCKY, TEXAS	DO	5,115,052	1,798,476
FISH AND SHELLFISH . . . . .	ILLINOIS, TEXAS, TENNESSEE, LOUISIANA	DO	586,853	506,516
CURED . . . . .	IOWA, NORTH DAKOTA, MINNESOTA	DO	816,810	222,514
CANNED (ANIMAL FOOD AND TURTLE SOUP) . . . . .	OHIO, KANSAS, NEBRASKA	STANDARD CASES	71,132	267,254
TOTAL . . . . .		-	-	10,469,100

<sup>1/</sup> INCLUDED IN UNCLASSIFIED.

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. CERTAIN ITEMS MAY BE SHOWN IN AN INTERMEDIATE AND ALSO IN A MORE ADVANCED STAGE OF PROCESSING.



# MISSISSIPPI RIVER FISHERIES

## VALUE OF MANUFACTURED PRODUCTS, BY STATES, 1964

(THOUSANDS OF DOLLARS)

STATE	VALUE
IOWA . . . . .	752
MINNESOTA . . . . .	637
WISCONSIN . . . . .	26
ILLINOIS . . . . .	108
NORTH DAKOTA, TEXAS, AND NEBRASKA . . . . .	3,346
LOUISIANA, TENNESSEE, AND OKLAHOMA . . . . .	237
ARIZONA, OHIO, MISSOURI, KENTUCKY, AND KANSAS . . . . .	5,363
TOTAL . . . . .	10,469

## WHOLESALING AND MANUFACTURING, 1964

ITEM	ALABAMA	ARKANSAS	ILLINOIS	INDIANA	IOWA	KANSAS	KENTUCKY
	<u>NUMBER</u>						
WHOLESALING AND MANUFACTURING:							
ESTABLISHMENTS . . . . .	14	45	52	12	33	5	21
PERSONS ENGAGED:							
AVERAGE FOR SEASON . . . . .	61	68	158	93	402	61	126
AVERAGE FOR YEAR . . . . .	77	66	140	92	334	59	125
ITEM	LOUISIANA	MINNE-SOTA	MISSIS-SIPPI	MISSOURI	NEBRASKA	NORTH DAKOTA	OHIO
	<u>NUMBER</u>						
WHOLESALING AND MANUFACTURING:							
ESTABLISHMENTS . . . . .	25	16	22	36	5	2	1
PERSONS ENGAGED:							
AVERAGE FOR SEASON . . . . .	100	151	37	254	117	20	9
AVERAGE FOR YEAR . . . . .	80	110	37	234	97	16	2
ITEM	OKLAHOMA	SOUTH DAKOTA	TENNESSEE	TEXAS	WISCONSIN	ARIZONA	TOTAL
	<u>NUMBER</u>						
WHOLESALING AND MANUFACTURING:							
ESTABLISHMENTS . . . . .	12	4	35	32	29	1	402
PERSONS ENGAGED:							
AVERAGE FOR SEASON . . . . .	66	13	103	523	227	50	2,659
AVERAGE FOR YEAR . . . . .	66	12	103	457	209	40	2,359



# MISSISSIPPI RIVER FISHERIES

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## ALABAMA

### OPERATING UNITS BY GEAR, 1964

ITEM	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR SET OR STAKE	TRAMMEL NETS	LINES		CROWFOOT BARS	TOTAL, EXCLUSIVE OF SUPPLI- CATION
				LONG OR SET WITH HOOKS	SNAG		
FISHERMEN, ON BOATS AND SHORE; REGULAR . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
	15	40	20	160	85	50	233
	20	15	10	210	90	76	301
	35	55	30	370	175	126	534
BOATS, MOTOR . . . . . GEAR; NUMBER . . . . . SQUARE YARDS . . . . .	35	55	30	370	175	126	534
	110	450	60	3,475	925	252	-
	-	119,700	15,960	-	-	-	-
	-	-	-	347,500	462,000	-	-

### ALABAMA - CATCH BY GEAR, 1964

SPECIES	FYKE AND HOOP NETS		GILL NETS, ANCHOR SET OR STAKE		TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH . . . . .	15,000	\$1,800	449,900	\$53,988	125,000	\$15,000
CARP . . . . .	7,500	375	220,000	11,000	118,000	5,900
CATFISH AND BULLHEADS . . . . .	27,500	6,875	45,000	11,250	22,500	5,625
PADDLEFISH . . . . .	2,500	375	27,500	4,125	21,000	3,150
QUITTBACK . . . . .	-	-	4,900	588	-	-
SHEEPSHEAD . . . . .	9,000	900	58,200	5,820	16,000	1,800
TOTAL . . . . .	61,500	10,325	805,500	86,771	304,500	31,475
SPECIES	LINES				CROWFOOT BARS	
	LONG OR SET WITH HOOKS		SNAG			
BUFFALOFISH . . . . .	16,500	\$1,980	7,500	\$900	-	-
CARP . . . . .	10,000	500	6,000	300	-	-
CATFISH AND BULLHEADS . . . . .	1,755,500	438,875	630,000	157,500	-	-
PADDLEFISH . . . . .	1,000	150	140,000	21,000	-	-
SHEEPSHEAD . . . . .	15,000	1,500	4,000	400	-	-
MUSSEL SHELLS . . . . .	-	-	-	-	822,000	\$75,565
PEARLS AND SLUGS . . . . .	-	-	-	-	-	1,538
TOTAL . . . . .	1,799,000	443,005	787,500	180,100	822,000	77,103

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE TENNESSEE RIVER DRAINAGE AREA.

## ARIZONA

THE COMMERCIAL FISHERIES OF ARIZONA WERE CONFINED TO THE PACIFIC DRAINAGE AREA. THE CATCH CONSISTED OF 12,200 POUNDS OF BUFFALOFISH, VALUED AT \$2,430.



# MISSISSIPPI RIVER FISHERIES

## ARKANSAS

### OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS	LINES
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:					
REGULAR . . . . .	41	170	139	125	165
CASUAL . . . . .	32	352	144	106	488
TOTAL . . . . .	73	522	283	231	653
BOATS:					
MOTOR . . . . .	39	474	261	205	615
OTHER . . . . .	15	2	-	1	-
GEAR:					
NUMBER . . . . .	29	5,875	903	502	3,520
LENGTH, YARDS . . . . .	8,750	-	-	-	-
SQUARE YARDS . . . . .	-	-	179,395	111,115	-
HOOKS . . . . .	-	-	-	-	179,920

ITEM	LINES - CONTINUED	DIP NETS, COMMON	CROWFOOT BARS	BY HAND	TOTAL, EXCLUSIVE OF DUPLI- CATION
	SNAG	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:					
REGULAR . . . . .	63	15	-	-	289
CASUAL . . . . .	85	30	10	71	780
TOTAL . . . . .	148	45	10	71	1,069
BOATS:					
MOTOR . . . . .	138	30	10	-	882
OTHER . . . . .	1	5	-	6	28
GEAR:					
NUMBER . . . . .	759	45	10	-	-
HOOKS . . . . .	312,400	-	-	-	-

### ARKANSAS - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	-	-	2,700	\$114	-	-
BUFFALO FISH . . . . .	248,800	\$27,902	663,300	78,771	740,700	\$86,467
CARP . . . . .	65,600	2,559	151,600	6,330	113,300	4,210
CATFISH AND BULLHEADS . . . . .	2,000	769	60,800	18,851	10,800	3,163
GARFISH . . . . .	39,000	1,644	24,100	1,202	81,800	4,083
PADDLEFISH . . . . .	3,000	190	3,600	304	6,300	544
QUILLBACK . . . . .	1,300	43	13,000	453	1,500	52
SHEEPSHEAD . . . . .	4,400	365	52,500	4,545	23,400	1,956
STURGEON, SHOVelnose . . . . .	-	-	4,900	515	-	-
SUCKERS . . . . .	500	21	9,600	524	500	21
TURTLES; . . . . .	-	-	-	-	-	-
SLIDER . . . . .	2,500	68	15,000	525	1,500	52
SNAPPER . . . . .	200	20	16,100	1,110	1,000	100
TOTAL . . . . .	361,900	33,621	1,017,100	113,244	980,600	100,648

SPECIES	TRAMMEL NETS		LINES	
			LONG OR SET WITH HOOKS	SNAG
	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	-	-	2,900	\$122
BUFFALO FISH . . . . .	946,500	\$110,173	15,000	1,867
CARP . . . . .	98,000	3,837	9,500	424
CATFISH AND BULLHEADS . . . . .	28,400	8,891	273,500	80,549

(CONTINUED ON NEXT PAGE)

# MISSISSIPPI RIVER FISHERIES

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## ARKANSAS - CATCH BY GEAR, 1964 - Continued

SPECIES	TRAMMEL NETS		LINES			
			LONG OR SET WITH HOOKS		SNAG	
GARFISH . . . . .	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
35,300	\$1,749	21,400	\$1,065	1,500	74	
PLAICE FISH . . . . .	5,200	417	-	-	16,500	1,397
QUILLBACK . . . . .	2,200	80	-	-		
SHEEPSHEAD . . . . .	22,100	1,952	25,600	2,127	4,300	385
STURGEON, SHOVELNOSE . . . . .	800	80	2,100	215		
SUCKERS . . . . .	700	29	-	-	-	-
TURTLES:						
SLIDER . . . . .	2,000	70	-	-	5,000	175
SNAPPER . . . . .	500	50	2,400	240	4,900	490
TOTAL. . . . .	1,141,700	127,328	352,400	86,609	93,400	18,118
SPECIES	DIP NETS	CROWFOOT BARS	BY HAND			
MUSSEL SHELLS . . . . .	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
-	-	-	24,000	\$960	52,000	\$910
TURTLES:						
BABY . . . . .	1,900	\$9,500	-	-	600	4,000
SLIDER . . . . .	-	-	-	-	5,000	175
TOTAL. . . . .	1,900	9,500	24,000	960	57,800	5,085

## ARKANSAS - CATCH BY WATERS, 1964

SPECIES	RED RIVER AREA		ARKANSAS RIVER AREA		MISSISSIPPI RIVER AREA, UNCLASSIFIED	
			POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	900	\$46	2,600	\$107	2,100	\$83
BUFFALOFISH . . . . .	226,500	30,668	1,458,600	162,103	935,000	112,914
CARP . . . . .	43,800	2,245	174,100	6,200	225,600	9,232
CATFISH AND BULLHEADS . . . . .	40,300	12,365	225,000	71,843	157,000	42,500
GARFISH . . . . .	56,500	2,630	53,500	2,637	87,000	4,350
PADDLEFISH . . . . .	3,300	335	23,400	1,731	7,900	786
QUILLBACK . . . . .	-	-	10,400	400	7,600	228
SHEEPSHEAD . . . . .	21,200	1,770	61,400	5,299	49,700	4,261
STURGEON, SHOVELNOSE . . . . .	-	-	6,100	640	1,700	170
SUCKERS . . . . .	2,200	189	4,200	176	4,900	230
MUSSEL SHELLS . . . . .	-	-	76,000	1,870	-	-
TURTLES:						
BABY . . . . .	-	-	-	-	2,700	13,500
SLIDER . . . . .	-	-	-	-	31,000	1,085
SNAPPER . . . . .	1,300	130	10,000	500	13,800	1,380
TOTAL. . . . .	396,100	50,778	2,106,100	253,506	1,528,800	190,629

## COLORADO CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS	
			POUNDS	VALUE
CARP . . . . .	150,000	\$4,500	10,000	\$300
MINNOWS . . . . .	1,500	15,000	600	4,000
UNCLASSIFIED, FOR FOOD . . . . .	5,000	3,000	1,000	600
TOTAL. . . . .	156,500	22,500	11,800	4,900

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE MISSISSIPPI RIVER DRAINAGE AREA.

# MISSISSIPPI RIVER FISHERIES

## IDAHO CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		LINES, HAND	
	POUNDS	VALUE	POUNDS	VALUE
CARP . . . . .	730,000	\$18,250	-	-
SUCKERS . . . . .	427,400	10,665	-	-
SALMON, RED OR SOCKEYE . . . . .	-	-	74,000	\$37,000
TOTAL . . . . .	1,157,400	28,935	74,000	37,000

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE PACIFIC DRAINAGE AREA.

## ILLINOIS

### OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	POTS AND TRAPS, WIRE BASKETS	GILL NETS, ANCHOR SET OR STAKE	TRAMMEL NETS
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE; REGULAR . . . . .	25	101	61	13	65
CASUAL . . . . .	40	250	133	34	140
TOTAL . . . . .	65	351	194	47	225
BOATS: MOTOR. . . . .	33	296	154	30	166
OTHER. . . . .	28	-	-	-	-
GEAR: NUMBER . . . . .	32	4,826	2,548	74	341
LENGTH, YARDS . . . . .	7,450	-	-	-	-
SQUARE YARDS . . . . .	-	-	-	13,038	66,275
ITEM	LINES, LONG OR SET WITH HOOKS	CROWFOOT BARS	BY HAND	TOTAL, EXCLUSIVE OF DUPLI- CATION	
NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
FISHERMEN, ON BOATS AND SHORE; REGULAR . . . . .	17	-	-	139	
CASUAL . . . . .	154	46	50	450	
TOTAL . . . . .	171	46	50	589	
BOATS: MOTOR. . . . .	146	46	-	467	
OTHER. . . . .	-	-	-	28	
GEAR: NUMBER . . . . .	768	77	-	-	
HOOKS. . . . .	71,200	-	-	-	

### ILLINOIS - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		POTS AND TRAPS		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	300	\$14	3,500	\$188	-	-	500	\$30
BUFFALO FISH. . . . .	136,600	11,798	634,600	63,162	-	-	48,400	5,309
CARP . . . . .	197,800	6,887	910,600	44,170	12,000	\$595	43,100	2,139
CATFISH AND BULLHEADS. . . . .	5,300	1,301	382,300	94,766	473,900	118,519	300	76
CRAPPIE . . . . .	-	-	200	30	-	-	-	-
EELS, COMMON . . . . .	-	-	200	33	400	69	-	-
GAR, L. . . . .	1,300	65	5,500	280	-	-	6,700	335
MOONFISH . . . . .	-	-	100	4	-	-	-	-
PADDLEFISH . . . . .	3,600	339	6,600	695	-	-	30,900	2,892
QUILLBACK. . . . .	14,400	545	50,000	2,169	-	-	1,000	38
SHEEPSHEAD . . . . .	76,900	5,503	336,300	23,753	-	-	6,200	435
STURGEON, SHOVELNOSE . . . . .	-	-	6,500	950	-	-	100	17
SUCKERS . . . . .	400	13	3,400	192	-	-	200	6
TURTLES, SNAPPER . . . . .	2,000	336	1,400	236	-	-	-	-
TOTAL . . . . .	440,600	28,801	2,344,200	230,842	486,300	119,184	137,400	11,277

# MISSISSIPPI RIVER FISHERIES

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## ILLINOIS - CATCH BY GEAR, 1964 - Continued

SPECIES	TRAMMEL NETS		LINES, LONG OR SET WITH HOOKS		CROWFOOT BARS		BY HAND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	400	\$17	-	-	-	-	-	-
BUFFALOFISH . . . . .	869,100	85,363	1,900	\$214	-	-	-	-
CARP . . . . .	767,900	36,459	10,100	502	-	-	-	-
CATFISH AND BULLHEADS . . . . .	47,000	11,809	142,000	35,267	-	-	-	-
EELS, COMMON . . . . .	-	-	100	16	-	-	-	-
GARFISH . . . . .	800	40	300	15	-	-	-	-
PADDLEFISH . . . . .	33,700	3,177	100	9	-	-	-	-
QUILLBACK . . . . .	18,900	715	-	-	-	-	-	-
SHEEPSHEAD . . . . .	91,800	6,495	9,700	742	-	-	-	-
STURGEON, SHOVELNOSE . . . . .	11,300	1,905	500	59	-	-	-	-
SUCKERS . . . . .	900	37	-	-	-	-	-	-
MUSSEL SHELLS . . . . .	-	-	-	-	998,000	\$34,870	360,000	\$24,300
PEARLS AND SLUGS . . . . .	-	-	-	-	-	-	200	300
TURTLES, SNAPPER . . . . .	-	-	3,200	539	-	-	-	-
TOTAL . . . . .	1,841,800	146,017	167,900	37,385	998,000	35,070	360,000	24,600



## ILLINOIS - CATCH BY WATERS, 1964

SPECIES	MISSISSIPPI RIVER PROPER		OHIO RIVER PROPER		WABASH RIVER AREA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	1,500	\$72	-	-	200	\$30
BUFFALOFISH . . . . .	788,300	84,744	41,100	\$5,018	15,700	1,570
CARP . . . . .	1,030,100	50,943	19,300	965	26,300	2,377
CATFISH AND BULLHEADS . . . . .	834,200	210,095	54,500	13,673	13,700	3,562
CRAPPIE . . . . .	200	30	-	-	-	-
EELS, COMMON . . . . .	500	90	-	-	100	15
GARFISH . . . . .	6,000	300	-	-	2,100	105
MOONEYE . . . . .	100	4	-	-	-	-
PADDLEFISH . . . . .	74,400	6,932	1,700	204	500	110
QUILLBACK . . . . .	16,700	879	600	30	3,000	300
SHEEPSHEAD . . . . .	471,100	32,946	8,500	775	3,000	420
STURGEON, SHOVELNOSE . . . . .	13,600	2,331	2,000	236	2,600	364
SUCKERS . . . . .	800	28	2,300	138	400	40
MUSSEL SHELLS . . . . .	-	-	28,000	700	600,000	40,500
PEARLS AND SLUGS . . . . .	-	-	-	-	-	500
TURTLES, SNAPPER . . . . .	5,300	866	-	-	-	-
TOTAL . . . . .	3,242,600	390,260	156,000	21,739	667,800	49,893

SPECIES	ILLINOIS RIVER AREA		MISSISSIPPI RIVER AREA, UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	2,400	\$135	600	\$12
BUFFALOFISH . . . . .	658,000	52,251	187,500	22,263
CARP . . . . .	741,900	31,890	123,900	6,578
CATFISH AND BULLHEADS . . . . .	130,000	29,764	18,400	4,664
EELS, COMMON . . . . .	100	15	-	-
GARFISH . . . . .	6,600	350	-	-
PADDLEFISH . . . . .	-	-	300	60
QUILLBACK . . . . .	3,100	186	61,800	2,092
SHEEPSHEAD . . . . .	38,800	2,565	1,500	222
SUCKERS . . . . .	-	-	1,400	42
MUSSEL SHELLS . . . . .	730,000	17,970	-	-
TURTLES, SNAPPER . . . . .	1,300	225	-	-
TOTAL . . . . .	2,312,200	135,331	395,400	35,933

# MISSISSIPPI RIVER FISHERIES INDIANA

## OPERATING UNITS BY GEAR, 1964

ITEM	FYKE AND HOOP NETS, FISH	LINES, LONG OR SET WITH HOOKS	CROWFOOT BARS	BY HAND	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE, CASUAL, TOTAL . . .	28	26	33	145	186
BOATS, MOTOR . . . . .	28	26	33	-	69
GEAR, NUMBER . . . . .	180	78	33	-	-
HOOKS. . . . .	-	4,020	-	-	-

## INDIANA - CATCH BY GEAR, 1964

SPECIES	FYKE AND HOOP NETS		LINES, LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH. . . . .	20,300	\$2,826	700	\$99
CARP. . . . .	800	74	-	-
CATFISH AND BULLHEADS. . .	7,000	1,750	6,000	1,500
QUILLBACK. . . . .	3,000	300	-	-
SHEEPSHEAD. . . . .	1,100	110	600	60
TOTAL. . . . .	32,200	5,060	7,300	1,659

SPECIES	CROWFOOT BARS		BY HAND	
	POUNDS	VALUE	POUNDS	VALUE
MUSSEL SHELLS, PEARLS AND SLUGS . . . . .	600,000	\$40,500	1,200,000	\$81,000
TOTAL. . . . .	600,000	41,000	1,200,000	82,000

## INDIANA - CATCH BY WATERS, 1964

SPECIES	OHIO RIVER PROPER		WABASH RIVER PROPER		WHITE RIVER AREA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH. . . . .	6,500	\$975	14,500	\$1,950	-	-
CARP. . . . .	500	50	300	24	-	-
CATFISH AND BULLHEADS. . .	7,500	1,875	5,000	1,375	-	-
QUILLBACK. . . . .	-	-	5,000	300	-	-
SHEEPSHEAD. . . . .	1,200	120	500	50	-	-
MUSSEL SHELLS, PEARLS AND SLUGS . . . . .	-	-	1,200,000	81,000	600,000	\$40,500
TOTAL. . . . .	15,700	3,020	1,223,800	85,699	600,000	41,000



# MISSISSIPPI RIVER FISHERIES

## IOWA

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### OPERATING UNITS BY GEAR, 1964

SPECIES	HAUL SEINES, COMMON	WEIRS	FYKE AND HOOP NETS, FISH	POTS AND TRAPS, FISH
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE;				
REGULAR . . . . .	25	7	87	114
CASUAL . . . . .	52	-	293	384
TOTAL . . . . .	77	7	380	498
BOATS:				
MOTOR. . . . .	25	-	380	498
OTHER. . . . .	24	-	-	-
GEAR:				
NUMBER . . . . .	30	12	3,574	4,173
LENGTH YARDS . . . . .	7,666	-	-	-

SPECIES	GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE;				
REGULAR . . . . .	54	38	88	127
CASUAL . . . . .	141	139	295	398
TOTAL . . . . .	195	177	383	525
BOATS:				
MOTOR. . . . .	192	177	383	522
OTHER. . . . .	-	-	-	24
GEAR:				
NUMBER . . . . .	495	252	1,791	-
SQUARE YARDS . . . . .	34,666	50,000	-	-
Hooks. . . . .	-	-	179,100	-



FYKE NET

### IOWA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		WEIRS		FYKE AND HOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	-	-	-	-	1,200	\$12
BUFFALO FISH. . . . .	290,900	\$22,287	-	-	429,300	36,640
CARP . . . . .	532,100	13,841	143,700	\$1,105	415,500	12,466
CATFISH AND BULLHEADS . . . . .	53,600	11,145	-	-	144,700	29,391
GARFISH. . . . .	-	-	-	-	8,400	84
PADDLEFISH . . . . .	16,800	1,844	-	-	2,600	279
PERCH. . . . .	-	-	-	-	100	1
SHEEPSHEAD . . . . .	127,500	7,480	-	-	258,500	15,508
STURGEON, SHOVELNOSE . . . . .	700	105	-	-	2,700	412
SUCKERS. . . . .	2,100	42	-	-	107,000	2,140
TURTLES, SNAPPER . . . . .	-	-	-	-	200	26
TOTAL . . . . .	1,023,700	56,744	143,700	1,105	1,370,200	98,959

# MISSISSIPPI RIVER FISHERIES

## IOWA - CATCH BY GEAR, 1964 - Continued

SPECIES	POTS AND TRAPS		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH . . . . .	1,900	\$71	110,200	\$9,913
CARP . . . . .	54,200	1,628	242,000	7,332
CATFISH AND BULLHEADS . . . . .	425,200	66,999	7,700	1,622
PADDLEFISH . . . . .	700	78	1,100	122
SHEEPSHEAD . . . . .	200	12	25,200	1,514
STURGEON, SHOVELNOSE . . . . .	-	-	3,500	566
SUCKERS . . . . .	400	8	3,600	75
TOTAL. . . . .	482,600	86,896	393,800	21,144

SPECIES	TRAMMEL NETS		LINES, LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH . . . . .	52,800	\$4,755	900	\$75
CARP . . . . .	102,200	3,064	19,700	589
CATFISH AND BULLHEADS . . . . .	6,200	1,302	103,600	21,333
PADDLEFISH . . . . .	1,000	117	-	-
SHEEPSHEAD . . . . .	12,300	735	20,000	1,199
STURGEON, SHOVELNOSE . . . . .	1,800	271	100	11
SUCKERS . . . . .	2,100	42	-	-
TOTAL. . . . .	176,400	10,286	144,300	23,207

## IOWA - CATCH BY WATERS, 1964

SPECIES	MISSISSIPPI RIVER PROPER		MISSOURI RIVER AREA		MISSISSIPPI RIVER AREA, UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	1,200	\$12	-	-	-	-
BUFFALOFISH . . . . .	826,800	74,415	22,900	\$998	36,300	\$428
CARP . . . . .	1,205,500	36,165	283,100	3,702	20,600	158
CATFISH AND BULLHEADS . . . . .	732,900	150,107	6,100	1,665	-	-
CATFISH . . . . .	8,400	84	-	-	-	-
PADDLEFISH . . . . .	20,500	2,253	1,700	187	-	-
QUILLBACK . . . . .	100	1	-	-	-	-
SHEEPSHEAD . . . . .	439,900	26,393	3,800	55	-	-
STURGEON, SHOVELNOSE . . . . .	9,100	1,365	-	-	-	-
SUCKERS . . . . .	114,400	2,287	1,000	20	-	-
TURTLES, SNAPPER . . . . .	200	26	-	-	-	-
TOTAL. . . . .	3,359,000	293,108	320,600	6,647	57,100	586



# MISSISSIPPI RIVER FISHERIES

## KANSAS

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### OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE, CASUAL, TOTAL . . .	1	10	10	6	13
BOATS, MOTOR . . . . .	1	10	10	6	13
GEAR:					
NUMBER . . . . .	1	52	14	100	-
LENGTH, YARDS . . . . .	60	-	-	-	-
SQUARE YARDS . . . . .	-	-	1,500	-	-
HOOKS. . . . .	-	-	-	836	-

### KANSAS - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH. . . . .	100	\$30	1,600	\$480
CARP . . . . .	100	25	13,300	3,325
CATFISH AND BULLHEADS. . . . .	-	-	2,600	1,300
SUCKERS. . . . .	-	-	100	25
TOTAL. . . . .	200	55	17,600	5,130

SPECIES	TRAMMEL NETS		LINES, LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH. . . . .	2,900	\$870	-	-
CARP . . . . .	14,500	3,625	-	-
CATFISH AND BULLHEADS. . . . .	2,300	1,150	600	\$300
PADDLEFISH . . . . .	100	35	-	-
QUILLBACK. . . . .	400	120	-	-
TOTAL. . . . .	20,200	5,800	600	300

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE MISSOURI RIVER AREA.

### KENTUCKY

### OPERATING UNITS BY GEAR, 1964

SPECIES	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS	LINES		CROWFOOT BARS	TOTAL, EXCLUSIVE OF DUPLI- CATION
				LONG OR SET WITH HOOKS	SNAG		
FISHERMEN, ON BOATS AND SHORE, REGULAR. . . . .	230	13	42	155	42	5	257
CASUAL . . . . .	260	25	63	155	59	31	395
TOTAL. . . . .	490	38	105	310	100	36	652
BOATS, MOTOR . . . . .	268	13	71	180	58	33	368
GEAR:							
NUMBER . . . . .	2,883	42	130	758	155	66	-
SQUARE YARDS . . . . .	-	8,800	24,724	-	-	-	-
HOOKS. . . . .	-	-	-	55,838	51,124	-	-

# MISSISSIPPI RIVER FISHERIES

## KENTUCKY - CATCH BY GEAR, 1964

SPECIES	FYKE AND HOOP NETS		GILL NETS, ANCHOR SET OR STAKE		TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH . . . . .	77,400	\$9,284	12,000	\$1,439	116,200	\$13,945
CARP . . . . .	124,100	6,206	20,400	1,022	92,400	4,618
CATFISH AND BULLHEADS . . . . .	294,700	74,700	11,400	329	4,400	1,125
PADDLEFISH . . . . .	5,500	817	-	-	300	70
QUILLBACK . . . . .	17,200	1,039	-	-	1,600	94
SHEEPSHEAD . . . . .	15,700	789	500	23	5,900	293
STURGEON, SHOVELNOSE . . . . .	600	69	-	-	800	101
SUCKERS . . . . .	12,400	615	-	-	2,700	135
TOTAL . . . . .	547,600	93,668	34,300	2,813	224,500	20,382

SPECIES	LINES				CROWFOOT BARS	
	LONG OR SET WITH HOOKS		SNAG			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH . . . . .	4,100	\$491	2,100	\$257	-	-
CARP . . . . .	20,300	1,017	1,000	53	-	-
CATFISH AND BULLHEADS . . . . .	261,400	66,362	42,600	10,812	-	-
PADDLEFISH . . . . .	500	70	4,100	615	-	-
SHEEPSHEAD . . . . .	8,300	415	200	8	-	-
STURGEON, SHOVELNOSE . . . . .	100	17	600	69	-	-
MUSSEL SHELLS . . . . .	-	-	-	-	264,700	\$11,912
PEARLS AND SLUGS . . . . .	-	-	-	-	-	188
TOTAL . . . . .	294,700	68,392	50,600	11,814	264,700	12,100

## KENTUCKY - CATCH BY WATERS, 1964

SPECIES	MISSISSIPPI RIVER PROPER		OHIO RIVER PROPER		TENNESSEE RIVER AREA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH . . . . .	15,000	\$1,796	112,200	\$13,453	4,300	\$515
CARP . . . . .	5,800	292	148,400	7,425	-	-
CATFISH AND BULLHEADS . . . . .	4,700	1,190	172,700	43,877	358,600	91,052
PADDLEFISH . . . . .	-	-	4,900	735	2,200	330
QUI LLBACK . . . . .	1,200	74	14,600	871	-	-
SHEEPSHEAD . . . . .	-	-	19,700	982	-	-
STURGEON, SHOVELNOSE . . . . .	100	9	1,100	141	-	-
SUCKERS . . . . .	700	34	6,200	310	-	-
MUSSEL SHELLS . . . . .	-	-	28,000	1,260	140,000	6,300
PEARLS AND SLUGS . . . . .	-	-	-	-	-	188
TOTAL . . . . .	27,500	3,395	507,800	69,054	505,100	98,385

SPECIES	CUMBERLAND RIVER AREA		OHIO RIVER AREA, UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH . . . . .	37,100	\$4,454	43,200	\$5,198
CARP . . . . .	72,900	3,645	31,100	1,554
CATFISH AND BULLHEADS . . . . .	36,600	9,293	31,100	6,087
PADDLEFISH . . . . .	1,200	178	2,300	329
QUI LLBACK . . . . .	1,900	118	1,100	69
SHEEPSHEAD . . . . .	6,100	303	4,800	243
STURGEON, SHOVELNOSE . . . . .	900	106	-	-
SUCKERS . . . . .	1,400	69	6,600	337
MUSSEL SHELLS . . . . .	-	-	96,700	4,352
TOTAL . . . . .	156,100	18,166	217,900	20,169

**MISSISSIPPI RIVER FISHERIES**  
**LOUISIANA**  
**OPERATING UNITS BY GEAR, 1964**

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ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	POTS		GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS
			CRAWFISH	SHRIMP		
FISHERMEN, ON BOATS AND SHORE:						
REGULAR . . . . .	8	520 561	255 396	19 28	441 449	341 322
CASUAL . . . . .						
TOTAL . . . . .	8	1,081	651	47	890	663
BOATS, MOTOR . . . . .						
GEAR . . . . .	3	1,081	641	47	885	663
NUMBER . . . . .	3	26,018	20,980	560	2,165	1,321
LENGTH, YARDS . . . . .	2,200	-	-	-	587,864	-
SQUARE YARDS . . . . .	-	-	-	-		232,424
ITEM	LINES	DIP NETS			GRABS, FROG	TOTAL, EXCLUSIVE OF DUPLI- CATION
	HAND	LONG OR SET WITH HOOKS	COMMON	DROP		
FISHERMEN, ON BOATS AND SHORE:						
REGULAR . . . . .	13	342	34	7	74	611
CASUAL . . . . .	40	459	148	2	124	670
TOTAL . . . . .	53	801	182	9	198	1,481
BOATS, MOTOR . . . . .						
GEAR . . . . .	53	801	182	9	198	1,471
NUMBER . . . . .	97	2,111	182	315	198	-
HOOKS . . . . .	97	314,525	-	-	-	-

**LOUISIANA - CATCH BY GEAR, 1964**

SPECIES	HAUL SEINES	FYKE AND HOOP NETS	POTS AND TRAPS		CRAWFISH	SHRIMP
			POUNDS	VALUE		
BOWFIN . . . . .	7,600	\$242	16,500	\$786	-	-
BUFFALO FISH . . . . .	45,600	3,648	1,026,200	100,463	-	-
CARP . . . . .	9,400	219	54,800	2,081	-	-
CATFISH AND BULLHEADS . . . . .	14,900	3,022	700,600	147,395	-	-
GARFISH . . . . .	15,200	750	25,500	1,280	-	-
PADDLEFISH . . . . .	800	56	5,200	348	-	-
SHEEPSHEAD . . . . .	17,000	1,398	236,600	23,487	-	-
CRAWFISH . . . . .	-	-	-	-	1,866,900	\$308,618
SHRIMP . . . . .	-	-	-	-	-	-
TURTLES, SNAPPER . . . . .	5,100	918	21,600	3,907	-	-
TOTAL . . . . .	115,600	10,253	2,087,200	279,747	1,866,900	308,618
SPECIES	GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS			LINES	
					HAND	LONG OR SET WITH HOOKS
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	30,300	\$1,206	20,300	\$693	-	-
BUFFALO FISH . . . . .	801,200	60,552	590,000	60,084	-	-
CARP . . . . .	51,500	1,576	31,700	1,144	-	-
CATFISH AND BULLHEADS . . . . .	335,900	73,411	281,000	62,929	-	-
GARFISH . . . . .	123,500	6,153	124,700	6,232	-	-
PADDLEFISH . . . . .	4,900	331	4,300	291	-	-
SHEEPSHEAD . . . . .	141,800	13,345	98,900	9,664	-	-
TURTLES, SNAPPER . . . . .	17,100	3,003	11,800	2,016	10,300	\$1,710
TOTAL . . . . .	1,506,200	179,579	1,162,700	143,453	10,300	1,710
SPECIES		DIP NETS			GRABS, FROG	
	COMMON	DROP				
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
CRAWFISH . . . . .	-	-	120,000	\$21,600	-	-
TURTLES, BABY . . . . .	8,100	\$32,400	-	-	44,700	\$15,630
FROGS . . . . .	5,000	1,750	-	-	-	-
TOTAL . . . . .	13,100	34,150	120,000	21,600	44,700	15,630

# MISSISSIPPI RIVER FISHERIES

## LOUISIANA - CATCH BY WATERS, 1964

SPECIES	MISSISSIPPI RIVER PROPER		ATCHAFALAYA RIVER AREA	
	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	2,500	\$125	9,500	\$730
BUFFALOFISH . . . . .	55,400	6,173	855,700	74,411
CARP . . . . .	7,800	234	27,000	1,233
CATFISH AND BULLHEADS . . . . .	31,000	7,206	1,106,800	226,065
GARFISH . . . . .	2,000	100	113,600	5,680
PADDLEFISH . . . . .	-	-	2,600	150
SHEEPSHEAD . . . . .	13,800	1,380	239,700	23,556
CRAWFISH . . . . .	6,000	1,080	1,780,900	291,538
SHRIMP . . . . .	7,900	1,975	9,300	2,325
TURTLES:				
BABY . . . . .	-	-	1,900	7,600
SNAPPER . . . . .	4,000	600	10,200	1,568
FROGS . . . . .	5,000	1,750	21,300	7,455
TOTAL . . . . .	135,400	20,623	4,176,500	642,681

SPECIES	RED RIVER AREA		MISSISSIPPI RIVER AREA, UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	52,700	\$1,774	10,000	\$500
BUFFALOFISH . . . . .	1,248,400	134,977	305,500	28,816
CARP . . . . .	71,300	2,322	41,300	1,231
CATFISH AND BULLHEADS . . . . .	437,500	107,414	162,900	36,997
GARFISH . . . . .	146,500	7,350	70,600	3,530
PADDLEFISH . . . . .	16,200	1,068	3,600	180
SHEEPSHEAD . . . . .	161,200	16,228	79,600	6,920
CRAWFISH . . . . .	120,000	21,600	80,000	16,000
TURTLES:				
BABY . . . . .	5,400	21,600	800	3,200
SNAPPER . . . . .	74,400	13,046	21,600	3,060
FROGS . . . . .	21,600	7,590	1,800	645
TOTAL . . . . .	2,355,200	334,909	777,700	101,079



## MINNESOTA

### OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	WEIRS	POUND NETS, FISH	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR SET OR STAKE	LINES, LONG OR SET WITH HOOKS	TOTAL, EXCLUSIVE OF DUPLI- CATION	
							NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:								
REGULAR . . . . .	131	18	3	93	143	6	294	
CASUAL . . . . .	150	-	6	128	98	39		340
TOTAL . . . . .	281	18	9	221	241	45		634
BOATS:								
MOTOR . . . . .	74	-	3	75	135	44		277
OTHER . . . . .	51	-	-	8	-	-		55
GEARS:								
NUMBER . . . . .	39	40	17	1,767	238	44		-
LENGTH, YARDS . . . . .	27,131	-	-	-	-	-		-
SQUARE YARDS . . . . .	-	-	-	-	342,400	-		-
HOOKS . . . . .	-	-	-	-	-	10,188		-

# MISSISSIPPI RIVER FISHERIES

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## MINNESOTA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		WEIRS		POUND NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	2,100	\$40	1,100	\$22	200	\$5
BUFFALO FISH . . . . .	623,800	52,798	10,200	1,126	25,900	2,850
BURBOT . . . . .	-	-	-	-	300	7
CARP . . . . .	4,275,700	101,835	487,500	14,138	-	-
CATFISH AND BULLHEADS . . . . .	301,600	18,360	41,900	2,935	-	-
GARFISH . . . . .	12,300	173	-	-	-	-
QUILLBACK . . . . .	400	9	-	-	-	-
SHEEPSHEAD . . . . .	533,200	18,294	-	-	-	-
SUCKERS . . . . .	16,500	431	3,900	116	-	-
WHITE BASS . . . . .	5,600	418	-	-	-	-
WHITEFISH . . . . .	-	-	-	-	4,700	1,815
TURTLES, SNAPPER . . . . .	200	24	-	-	-	-
<b>TOTAL . . . . .</b>	<b>5,771,400</b>	<b>192,982</b>	<b>544,600</b>	<b>18,337</b>	<b>31,100</b>	<b>4,577</b>

SPECIES	FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE		LINES, LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	12,800	\$249	-	-	-	-
BUFFALO FISH . . . . .	73,600	3,278	46,200	\$5,085	400	\$41
BURBOT . . . . .	15,700	312	200	4	-	-
CARP . . . . .	1,105,500	29,305	222,600	6,454	3,600	106
CATFISH AND BULLHEADS . . . . .	1,852,400	104,305	12,000	3,439	19,000	4,902
CRAPPIE . . . . .	-	-	1,500	545	-	-
MOONEYE . . . . .	-	-	12,000	2,119	-	-
PIKE OR PICKEREL . . . . .	-	-	92,900	13,232	-	-
QUILLBACK . . . . .	-	-	1,900	41	-	-
SHEEPSHEAD . . . . .	28,400	951	175,300	5,907	3,600	173
SUCKERS . . . . .	20,200	529	600	19	100	2
TULLIBEE . . . . .	100	3	-	-	-	-
WHITE BASS . . . . .	51,100	3,760	127,500	46,825	-	-
WHITEFISH . . . . .	-	-	220,100	56,111	-	-
YELLOW PERCH . . . . .	39,200	9,167	636,000	206,397	-	-
YELLOW PIKE . . . . .	-	-	-	-	-	-
TURTLES, SNAPPER . . . . .	2,300	274	-	-	-	-
<b>TOTAL . . . . .</b>	<b>3,201,500</b>	<b>152,133</b>	<b>1,571,700</b>	<b>349,178</b>	<b>26,700</b>	<b>5,224</b>

## MINNESOTA - CATCH BY WATERS, 1964

SPECIES	MISSISSIPPI RIVER AREA					
	MISSISSIPPI RIVER PROPER		ST. CROIX RIVER PROPER		UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	-	-	-	-	12,000	\$231
BUFFALO FISH . . . . .	56,100	\$6,175	10,600	\$1,415	712,200	57,439
BURBOT . . . . .	-	-	-	-	14,000	280
CARP . . . . .	389,200	11,287	445,100	11,572	4,328,200	101,940
CATFISH AND BULLHEADS . . . . .	26,400	6,970	-	-	1,552,600	83,229
GARFISH . . . . .	-	-	4,800	42	7,500	131
QUILLBACK . . . . .	2,300	50	-	-	-	-
SHEEPSHEAD . . . . .	16,600	798	54,400	2,614	499,000	16,239
SUCKERS . . . . .	1,200	36	1,400	109	30,200	774
TULLIBEE . . . . .	-	-	-	-	100	3
WHITE BASS . . . . .	-	-	-	-	56,700	4,178
WHITEFISH . . . . .	-	-	-	-	38,500	9,000
YELLOW PERCH . . . . .	-	-	-	-	2,200	263
<b>TOTAL . . . . .</b>	<b>491,800</b>	<b>25,316</b>	<b>516,300</b>	<b>15,752</b>	<b>7,283,200</b>	<b>273,707</b>

SPECIES	NORTHERN DRAINAGE AREA					
	RED RIVER OF THE NORTH AREA			NORTHERN DRAINAGE AREA, UNCLASSIFIED		
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	4,200	\$85	-	-	-	-
BUFFALO FISH . . . . .	1,400	149	-	-	-	-
BURBOT . . . . .	1,900	37	300	-	-	\$6
CARP . . . . .	932,400	27,039	-	-	-	-
CATFISH AND BULLHEADS . . . . .	618,700	44,342	-	-	-	-
CRAPPIE . . . . .	1,600	545	-	-	-	-
MOONEYE . . . . .	12,000	2,119	-	-	-	-
PIKE OR PICKEREL . . . . .	92,500	13,222	-	-	-	-
SHEEPSHEAD . . . . .	170,500	5,674	-	-	-	-
SUCKERS . . . . .	7,200	141	1,300	-	-	37
WHITEFISH, COMMON . . . . .	124,300	48,548	7,900	-	-	3,092
YELLOW PERCH . . . . .	240,800	56,278	-	-	-	-
YELLOW PIKE . . . . .	638,000	205,397	-	-	-	-
TURTLES, SNAPPER . . . . .	300	35	-	-	-	-
<b>TOTAL . . . . .</b>	<b>2,846,200</b>	<b>404,621</b>	<b>9,500</b>	<b>3,135</b>		

# MISSISSIPPI RIVER FISHERIES

## MISSISSIPPI

### OPERATING UNITS BY GEAR, 1964

ITEM	H A U L S E I N E S, C O M M O N	F Y K E A N D H O O P N E T S, F I S H	G I L L N E T S, A N C H O R, S E T O R S T A K E	T R A M M E L N E T S	L I N E S		D I P N E T S, C O M M O N	T O T A L, E X C L U S I V E O F D U P L I - C A T I O N
	N U M B E R	N U M B E R	N U M B E R	N U M B E R	L O N G O R S E T W I T H H O O K S	S N A G	N U M B E R	N U M B E R
FISHERMEN, ON BOATS AND SHORE;								
REGULAR . . . . .	52	110	162	50	178	71	15	212
CASUAL . . . . .	25	232	177	18	255	59	10	407
TOTAL . . . . .	77	342	359	68	433	130	25	619
BOATS:								
MOTOR, . . . . .	40	311	341	63	384	119	21	549
OTHER, . . . . .	21	-	-	-	-	-	-	21
GEAR:								
NUMBER . . . . .	31	3,135	881	155	1,370	345	25	-
LENGTH, YARDS . . . . .	10,400	-	-	-	-	-	-	-
SQUARE YARDS . . . . .	-	-	339,280	51,090	-	-	-	-
HOOKS. . . . .	-	-	-	-	346,200	462,825	-	-

### MISSISSIPPI - CATCH BY GEAR, 1964

SPECIES	H A U L S E I N E S		F Y K E A N D H O O P N E T S		G I L L N E T S, A N C H O R, S E T O R S T A K E		T R A M M E L N E T S	
	P O U N D S	V A L U E	P O U N D S	V A L U E	P O U N D S	V A L U E	P O U N D S	V A L U E
BOWFIN . . . . .	-	-	1,000	\$48	-	-	-	-
BUFFALO FISH . . . . .	157,000	\$16,092	485,000	51,151	1,003,500	\$104,809	116,500	\$12,017
CARP . . . . .	28,900	1,156	161,000	7,172	159,000	6,963	60,800	2,472
CATFISH AND BULLHEADS . . . . .	2,500	530	44,600	10,488	57,500	13,548	10,700	2,342
GARFISH . . . . .	7,000	388	5,300	294	22,400	1,241	7,500	416
PADDLEFISH . . . . .	500	39	1,500	118	2,000	158	500	39
QUILLBACK . . . . .	1,000	50	2,000	100	-	-	-	-
SHEEPSHEAD . . . . .	1,800	109	13,000	763	13,100	779	5,200	315
SUCKERS . . . . .	-	800	40	-	-	-	-	-
TOTAL . . . . .	198,700	18,364	214,200	70,174	1,257,500	127,498	201,200	17,601
SPECIES	L I N E S				D I P N E T S, C O M M O N			
	L O N G O R S E T W I T H H O O K S		S N A G		P O U N D S	V A L U E	P O U N D S	V A L U E
BOWFIN . . . . .	2,000	\$96	-	-	-	-	-	-
BUFFALO FISH . . . . .	4,500	467	5,500	\$577	-	-	-	-
CARP . . . . .	5,500	238	5,500	244	-	-	-	-
CATFISH AND BULLHEADS . . . . .	289,300	69,174	74,000	17,799	-	-	-	-
GARFISH . . . . .	8,000	443	10,000	554	-	-	-	-
PADDLEFISH . . . . .	-	-	12,000	996	-	-	-	-
SHEEPSHEAD . . . . .	6,800	405	1,000	57	-	-	-	-
TURTLES, BABY . . . . .	-	-	-	-	400	-	-	\$1,400
TOTAL . . . . .	316,100	70,823	108,000	20,227	400	-	400	1,400

### MISSISSIPPI - CATCH BY WATERS, 1964

SPECIES	T E N N E S S E E R I V E R A R E A		M I S S I S S I P P I R I V E R A R E A , U N C L A S S I F I E D	
	P O U N D S	V A L U E	P O U N D S	V A L U E
BOWFIN . . . . .	-	-	3,000	\$144
BUFFALO FISH . . . . .	13,700	\$1,370	1,758,300	183,743
CARP . . . . .	8,700	435	412,000	17,810
CATFISH AND BULLHEADS . . . . .	43,900	10,975	434,700	102,906
GARFISH . . . . .	-	-	60,200	3,336
PADDLEFISH . . . . .	2,400	240	14,100	1,110
QUILLBACK . . . . .	-	-	3,000	1750
SHEEPSHEAD . . . . .	1,300	65	39,600	2,303
SUCKERS . . . . .	-	-	600	40
TURTLES, BABY . . . . .	-	-	400	1,400
TOTAL . . . . .	70,000	13,085	2,726,100	313,002

# MISSISSIPPI RIVER FISHERIES

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## MISSOURI

### OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:					
REGULAR, . . . . .	1	16	23	5	28
CASUAL, . . . . .	4	115	131	79	242
TOTAL, . . . . .	5	131	154	84	270
BOATS:					
MOTOR, . . . . .	3	128	152	83	266
OTHER, . . . . .	1	-	-	-	1
GEAR:					
NUMBER, . . . . .	3	1,066	179	173	-
LENGTH, YARDS, . . . . .	700	-	30,730	-	-
SQUARE YARDS, . . . . .	-	-	-	-	-
HOOKS, . . . . .	-	-	-	16,724	-

### MISSOURI - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		TRAMMEL NETS		LINES, LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH, . . . . .	900	\$126	43,800	\$6,132	95,800	\$13,412	500	\$70
CARP, . . . . .	900	54	65,500	3,930	59,000	3,540	2,200	132
CATFISH AND BULLHEADS, . . . . .	200	60	20,800	6,240	16,500	4,950	10,900	3,270
EELS, COMMON	-	-	-	-	-	-	200	32
FLAELFISH	100	12	600	96	2,500	300	-	-
QUILLBACK, . . . . .	1,300	76	3,400	24	2,700	182	-	-
SHEEPSHEAD	200	24	13,600	1,656	3,600	432	1,600	192
STURGEON, SHOVELNOSE	-	-	400	60	2,600	390	700	105
SUCKERS, . . . . .	-	-	1,400	84	500	30	-	-
TOTAL, . . . . .	3,600	354	149,900	16,402	163,200	23,216	16,100	3,801

### MISSOURI - CATCH BY WATERS, 1964

SPECIES	MISSISSIPPI RIVER PROPER		MISSOURI RIVER PROPER		MISSISSIPPI RIVER AREA, UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH, . . . . .	49,600	\$6,944	23,000	\$3,220	68,400	\$9,576
CARP, . . . . .	45,400	2,724	58,000	3,480	24,200	1,452
CATFISH AND BULLHEADS, . . . . .	34,300	10,290	13,600	4,080	500	150
EELS, COMMON	100	16	100	16	-	-
FLAELFISH	1,700	204	1,700	24	-	-
QUILLBACK, . . . . .	3,500	210	9,700	234	-	-
SHEEPSHEAD	15,800	1,896	2,700	324	700	84
STURGEON, SHOVELNOSE	3,000	450	700	105	-	-
SUCKERS, . . . . .	900	54	1,000	60	-	-
TOTAL, . . . . .	154,300	22,788	104,700	11,723	93,800	11,262

## MISSISSIPPI RIVER FISHERIES

## MONTANA

## OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR SET OR STAKE	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:				
REGULAR . . . . .	2	2	3	5
CASUAL . . . . .	3	3	3	6
TOTAL . . . . .	5	5	6	11
BOATS:				
MOTOR . . . . .	3	4	4	8
OTHER . . . . .	2	-	-	2
GEAR:				
NUMBER . . . . .	2	18	10	-
LENGTH, YARDS . . . . .	600	-	16,600	-
SQUARE YARDS . . . . .	-	-	-	-

## MONTANA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH . . . . .					120,900	\$12,644
CARP . . . . .	99,400	\$1,983	5,100	\$198	5,400	209
CATFISH AND BULLHEADS . . . . .	-	-	2,200	507	2,200	507
SHEEPSHEAD . . . . .	-	-	-	-	700	34
SUCKER . . . . .	1,300	26	-	-	-	-
TOTAL . . . . .	100,700	2,009	7,300	705	129,200	13,394

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE MISSOURI RIVER DRAINAGE AREA.

NEBRASKA  
OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON		FYKE AND HOOP NETS, FISH		POTS AND TRAPS, FISH		TRAMMEL NETS		TOTAL, EXCLUSIVE OF DUPLI- CATION	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:										
REGULAR . . . . .	17	30	11	15	30	30	84	106	30	106
CASUAL . . . . .	33	77	22	-	-	-	-	-	-	-
TOTAL . . . . .	50	107	33	99	99	99	-	-	136	136
BOATS:										
MOTOR . . . . .	29	99	29	94	111	111	-	-	25	25
OTHER . . . . .	25	-	-	-	-	-	-	-	-	-
GEAR:										
NUMBER . . . . .	25	856	240	158	-	-	-	-	-	-
LENGTH, YARDS . . . . .	2,635	-	-	-	23,867	23,867	-	-	-	-
SQUARE YARDS . . . . .	-	-	-	-	-	-	-	-	-	-

## NEBRASKA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		POTS AND TRAPS		TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH . . . . .	1,600	\$235	2,700	\$506	700	\$151	4,100	\$722
CARP . . . . .	44,600	2,340	74,500	6,580	15,900	2,499	37,300	5,436
CATFISH AND BULLHEADS . . . . .	5,800	481	16,300	4,630	7,100	2,936	11,800	4,572
QUILLBACK . . . . .	22,200	728	22,300	728	-	-	-	-
SHEEPSHEAD . . . . .	6,900	175	6,900	175	-	-	-	-
STURGEON, SHOVELNOSE . . . . .	-	-	-	-	-	-	100	25
TOTAL . . . . .	81,300	3,959	122,700	12,619	23,700	5,588	53,300	10,755

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE MISSOURI RIVER DRAINAGE AREA.

## NEW MEXICO

THE COMMERCIAL FISHERIES WERE CONFINED TO ELEPHANT BUTTE LAKE OF THE RIO GRANDE RIVER DRAINAGE AREA. THE CATCH CONSISTED OF BUFFALOFISH, 57,700 POUNDS, \$16,160; AND CARP, 1,200 POUNDS, \$331.

# MISSISSIPPI RIVER FISHERIES

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## NORTH DAKOTA OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET OR STAKE	TOTAL, EXCLUSIVE OF DUPLI- CATION
FISHERMEN, ON BOATS AND SHORE:				
REGULAR . . . . .	2	4	2	8
CASUAL . . . . .	12	3	2	17
TOTAL. . . . .	14	7	4	25
BOATS, MOTOR . . . . .	-	3	2	5
GEAR:				
NUMBER . . . . .	1	70	12	-
LENGTH, YARDS . . . . .	1,000	-	-	-
SQUARE YARDS . . . . .	-	-	1,700	-

## NORTH DAKOTA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH. . . . .	14,700	\$781	49,700	\$2,632	28,400	\$1,507
CARP . . . . .	75,600	2,725	-	-	1,600	57
CATFISH AND BULLHEADS. . . . .	28,100	3,111	280,700	21,281	800	106
PADDLEFISH . . . . .	-	-	700	86	1,100	133
SUCKERS. . . . .	4,100	204	2,600	55	-	-
TOTAL. . . . .	122,500	6,821	333,700	24,054	31,900	1,803

## NORTH DAKOTA - CATCH BY WATERS, 1964

SPECIES	RED RIVER OF THE NORTH		MISSOURI RIVER AREA	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH. . . . .	14,700	\$781	78,100	\$4,139
CARP . . . . .	75,600	2,725	1,600	57
CATFISH AND BULLHEADS. . . . .	28,100	3,111	281,500	21,387
PADDLEFISH . . . . .	-	-	1,600	219
SUCKERS. . . . .	4,100	204	2,600	55
TOTAL. . . . .	122,500	6,821	365,600	25,657

**MISSISSIPPI RIVER FISHERIES****OKLAHOMA****OPERATING UNITS BY GEAR, 1964**

ITEM	GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:			
REGULAR . . . . .	76	38	76
CASUAL . . . . .	58	-	58
TOTAL. . . . .	134	36	134
BOATS, MOTOR . . . . .	134	36	134
GEAR,			
NUMBER . . . . .	472	70	-
SQUARE YARDS . . . . .	191,192	18,550	-

**OKLAHOMA - CATCH BY GEAR, 1964**

SPECIES	GILL NETS, ANCHOR, SET OR STAKE		TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH . . . . .	338,700	\$40,644	59,800	\$7,176
CARP . . . . .	133,300	6,665	23,500	1,175
CATFISH AND BULLHEADS . . . . .	59,300	18,976	10,500	3,360
GARFISH . . . . .	4,000	160	1,000	40
PADDLEFISH . . . . .	11,200	1,120	2,000	200
QUILLBACK . . . . .	4,000	160	1,000	40
SHEEPSHEAD . . . . .	30,700	3,684	5,500	650
WHITE BASS . . . . .	12,400	2,480	2,200	440
TOTAL. . . . .	593,600	73,889	105,500	13,091

**OKLAHOMA - CATCH BY WATERS, 1964**

SPECIES	RED RIVER AREA		ARKANSAS RIVER AREA	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALOFISH . . . . .	226,000	\$27,120	172,500	\$20,700
CARP . . . . .	66,700	3,335	90,100	4,505
CATFISH AND BULLHEADS . . . . .	10,600	3,455	59,000	16,800
GARFISH . . . . .	2,300	100	2,500	100
PADDLEFISH . . . . .	-	-	18,200	1,320
QUILLBACK . . . . .	4,000	160	1,000	40
SHEEPSHEAD . . . . .	7,100	852	29,100	3,492
WHITE BASS . . . . .	700	140	13,900	2,780
TOTAL. . . . .	317,800	35,163	361,300	51,817

# MISSISSIPPI RIVER FISHERIES

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## SOUTH DAKOTA

### OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET OR STAKE	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE:				
REGULAR . . . . .	20	9	10	33
CASUAL . . . . .	30	2	-	32
TOTAL . . . . .	50	11	10	65
BOATS:				
MOTOR . . . . .	10	7	7	20
OTHER . . . . .	10	-	-	10
GEAR:				
NUMBER	7	173	33	-
LENGTH, YARDS	5,067	-	-	-
SQUARE YARDS	-	-	13,200	-

### SOUTH DAKOTA - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BUFFALO FISH . . . . .	1,168,200	\$105,138	63,900	\$5,753	513,900	\$46,254
CARP . . . . .	1,229,200	18,438	900	14	3,700	55
CATFISH AND BULLHEADS . . . . .	-	-	186,500	9,450	15,900	2,384
SHEEPSHEAD . . . . .	-	-	1,000	29	3,900	117
SUCKERS . . . . .	20,600	309	-	-	500	7
TOTAL . . . . .	2,418,000	123,685	252,300	15,246	537,900	48,817

### SOUTH DAKOTA - CATCH BY WATERS, 1964

SPECIES	MISSOURI RIVER AREA		MISSISSIPPI RIVER AREA UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALO FISH . . . . .	1,743,800	\$156,947	2,200	\$198
CARP . . . . .	476,500	7,147	757,300	11,360
CATFISH AND BULLHEADS . . . . .	202,400	11,834	-	-
SHEEPSHEAD . . . . .	4,900	146	-	-
SUCKERS . . . . .	20,700	310	400	6
TOTAL . . . . .	2,448,300	176,384	759,900	11,564

## TENNESSEE

### OPERATING UNITS BY GEAR, 1964

ITEM	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET OR STAKE	TRAMMEL NETS	LINES		DIP NETS, COMMON	CROWFOOT BARS	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER		NUMBER	NUMBER			
FISHERMEN, ON BOATS AND SHORE:								
REGULAR . . . . .	181	83	155	205	115	1	168	544
CASUAL . . . . .	262	70	100	404	169	2	98	723
TOTAL . . . . .	443	153	255	609	284	3	266	1,267
BOATS, MOTOR . . . . .	443	153	255	605	283	3	266	1,263
GEAR:	-	-	-	-	-	-	-	-
NUMBER . . . . .	4,521	236	770	4,624	1,529	3	523	-
SQUARE YARDS . . . . .	-	56,965	204,659	-	-	-	-	-
HOOKS . . . . .	-	-	-	441,740	723,800	-	-	-

# MISSISSIPPI RIVER FISHERIES

## TENNESSEE - CATCH BY GEAR, 1964

SPECIES	FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE		TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	15,000	\$750	-	-	600	\$30
BUFFALOFISH . . . . .	320,500	38,635	156,700	\$17,604	1,172,600	135,379
CARP . . . . .	296,100	14,805	116,600	5,155	1,030,000	48,323
CATFISH AND BULLHEADS . . . . .	179,400	44,650	85,700	20,525	390,700	95,967
CRAPPIE . . . . .	6,400	1,280	-	-	4,600	920
GARFISH . . . . .	-	-	3,300	165	3,900	195
PADDLEFISH . . . . .	4,600	690	48,200	7,340	53,900	8,165
QUILLBACK . . . . .	9,200	534	2,400	142	213,000	12,275
SHEEPSHEAD . . . . .	63,900	3,310	20,500	1,058	128,000	6,822
STURGEON, SHOVELNOSE . . . . .	-	-	-	-	200	30
SUCKERS . . . . .	200	20	-	-	2,800	260
YELLOW BASS . . . . .	600	51	-	-	-	-
TOTAL . . . . .	895,900	105,125	431,400	52,189	3,000,900	308,866

SPECIES	LINES		DIP NETS, COMMON		CROWFOOT BARS	
	LONG OR SET WITH HOOKS		SNAG			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	13,000	\$650	-	-	-	-
BUFFALOFISH . . . . .	31,800	3,401	18,000	\$2,200	-	-
CARP . . . . .	22,500	894	13,400	646	-	-
CATFISH AND BULLHEADS . . . . .	1,246,600	308,974	359,000	89,146	-	-
CRAPPIE . . . . .	2,000	400	-	-	-	-
GARFISH . . . . .	100	5	-	-	-	-
PADDLEFISH . . . . .	5,100	783	313,800	47,125	-	-
QUILLBACK . . . . .	3,400	155	600	33	-	-
SHEEPSHEAD . . . . .	46,500	2,449	9,200	471	-	-
STURGEON, SHOVELNOSE . . . . .	100	15	-	-	-	-
YELLOW BASS . . . . .	100	9	-	-	-	-
MUSSEL SHELLS . . . . .	-	-	-	-	3,352,000	\$215,895
PEARLS AND SLUGS . . . . .	-	-	-	-	-	7,082
TURTLES, BABY . . . . .	-	-	-	-	300	\$1,500
TOTAL . . . . .	1,371,200	317,766	714,000	139,621	300	1,500
					3,352,000	222,977

## TENNESSEE - CATCH BY WATERS, 1964

SPECIES	TENNESSEE RIVER AREA		CUMBERLAND RIVER AREA		MISSISSIPPI RIVER AREA, UNCLASSIFIED	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	-	-	-	-	28,600	\$1,430
BUFFALOFISH . . . . .	1,017,400	\$114,653	53,400	\$8,010	628,800	75,456
CARP . . . . .	980,500	44,888	60,000	3,000	438,700	21,935
CATFISH AND BULLHEADS . . . . .	1,564,200	385,662	64,500	16,125	630,700	157,675
CRAPPIE . . . . .	-	-	-	-	13,000	2,600
GARFISH . . . . .	7,200	360	-	-	100	5
PADDLEFISH . . . . .	416,800	62,628	900	90	7,900	1,165
QUILLBACK . . . . .	224,200	12,336	3,000	150	1,400	84
SHEEPSHEAD . . . . .	189,000	9,360	15,900	1,500	65,200	3,160
STURGEON, SHOVELNOSE . . . . .	-	-	300	45	-	-
SUCKERS . . . . .	-	-	3,000	300	-	-
YELLOW BASS . . . . .	-	-	-	-	700	60
MUSSEL SHELLS . . . . .	3,262,000	212,520	90,000	3,375	-	-
PEARLS AND SLUGS . . . . .	-	7,082	-	-	-	-
TURTLES, BABY . . . . .	-	-	-	-	300	1,500
TOTAL . . . . .	7,661,300	850,289	291,000	32,685	1,813,400	265,090

# MISSISSIPPI RIVER FISHERIES

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## TEXAS

### OPERATING UNITS BY GEAR, 1964

ITEM	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR SET OR STAKE	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON BOATS AND SHORE; REGULAR . . . . .	66	148	28	110	148
CASUAL . . . . .	54	262	6	264	348
TOTAL. . . . .	120	410	34	394	496
BOATS, MOTOR . . . . .	114	372	34	344	420
GEAR: NUMBER . . . . .	788	970	66	1,182	-
SQUARE YARDS . . . . .	-	207,690	13,200	-	-
HOOKS . . . . .	-	-	-	88,650	-

### TEXAS - CATCH BY GEAR, 1964

SPECIES	FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALO FISH . . . . .	66,100	\$7,271	665,200	\$73,502
CARP . . . . .	2,300	115	45,700	2,285
CATFISH AND BULLHEADS . . . . .	12,300	3,690	18,500	5,550
GARFISH . . . . .	10,300	515	97,800	4,890
QUILLBACK . . . . .	100	5	2,300	115
SHEEPSHEAD . . . . .	3,400	340	5,300	530
SUCKERS . . . . .	2,500	125	3,300	165
TURTLES, SNAPPER . . . . .	500	50	2,300	250
TOTAL. . . . .	97,500	12,111	843,600	87,287
SPECIES	TRAMMEL NETS		LINES, LONG OR SET WITH HOOKS	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALO FISH . . . . .	26,000	\$2,860	4,000	\$440
CARP . . . . .	4,500	225	1,000	50
CATFISH AND BULLHEADS . . . . .	2,000	600	61,700	18,510
GARFISH . . . . .	900	45	4,300	225
	-	-	5,300	550
TOTAL. . . . .	33,400	3,730	76,700	19,775

### TEXAS - CATCH BY WATERS, 1964

SPECIES	RED RIVER AREA		GULF OF MEXICO AREA	
	POUNDS	VALUE	POUNDS	VALUE
BUFFALO FISH . . . . .	304,400	\$33,484	459,900	\$50,569
CARP . . . . .	16,600	840	36,700	1,835
CATFISH AND BULLHEADS . . . . .	94,500	26,350	-	-
GARFISH . . . . .	17,600	880	95,900	4,795
QUILLBACK . . . . .	-	-	2,400	120
SHEEPSHEAD . . . . .	9,900	990	4,300	430
SUCKERS . . . . .	3,700	185	2,100	105
TURTLES, SNAPPER . . . . .	2,000	200	1,000	100
TOTAL. . . . .	446,900	64,929	602,300	57,974

# MISSISSIPPI RIVER FISHERIES

## WISCONSIN

### OPERATING UNITS BY GEAR, 1964

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS, FISH	WEIRS	TRAP NETS, FISH	FYKE AND HOOP NETS	GILL NETS, ANCHOR, SET OR STAKE
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS . . . . .	-	12	-	-	-	-
ON BOATS AND SHORE:						
REGULAR . . . . .	90	9	6	20	44	110
CASUAL . . . . .	90	-	2	6	32	81
TOTAL . . . . .	180	21	8	26	76	191
VESSELS, MOTOR . . . . .	-	4	-	-	-	-
GROSS TONNAGE . . . . .	-	55	-	-	-	-
BOATS:						
MOTOR . . . . .	72	2	-	13	52	108
OTHER . . . . .	54	-	-	-	-	-
GEAR:						
NUMBER . . . . .	49	6	3	164	1,523	117
LENGTH, YARDS . . . . .	23,837	95	-	-	-	48,520
SQUARE YARDS . . . . .	-	-	-	-	-	-

ITEM	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	DIP NETS, COMMON	CROWFOOT BARS	BY HAND	TOTAL EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:						
ON VESSELS . . . . .	-	-	-	-	-	12
ON BOATS AND SHORE:						
REGULAR . . . . .	3	68	-	13	-	211
CASUAL . . . . .	7	351	2	-	5	526
TOTAL . . . . .	10	419	2	13	5	749
VESSELS, MOTOR . . . . .	-	-	-	-	-	4
GROSS TONNAGE . . . . .	-	-	-	-	-	55
BOATS:						
MOTOR . . . . .	7	394	-	13	-	540
OTHER . . . . .	-	-	-	-	-	54
GEAR:						
NUMBER . . . . .	7	399	2	26	-	-
SQUARE YARDS . . . . .	1,100	-	-	-	-	-
HOOKS . . . . .	-	113,945	-	-	-	-

### WISCONSIN - CATCH BY GEAR, 1964

SPECIES	HAUL SEINES		OTTER TRAWLS		WEIRS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	3,800	\$38	-	-	-	-
BUFFALO FISH	636,000	70,237	-	-	178,700	\$19,658
BURBOT	33,000	230	4,500	\$45	-	-
CARP	5,810,400	174,312	40,700	1,221	116,200	3,488
CATFISH AND BULLHEADS	9,800	2,245	1,900	153	-	-
CARP FISH	16,600	165	-	-	-	-
MOONEYE	11,700	234	-	-	100	1
QUILLBACK	7,100	142	-	-	-	-
SHEEPSHEAD	458,200	27,491	1,464,200	87,648	100	3
STURGEON, COMMON	200	50	-	-	-	-
SUCKERS	58,400	1,168	300	-	1,400	28
TURTLES, SNAPPER	400	44	-	-	-	-
TOTAL	7,048,100	276,457	1,511,600	89,273	296,500	23,178

SPECIES	TRAP NETS		FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET OR STAKE		TRAMMEL NETS	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN	-	-	100	\$1	1,600	\$16	-	-
BUFFALO FISH	-	-	100,900	11,103	372,900	41,023	900	\$101
BURBOT	15,300	\$153	-	-	-	-	-	-
CARP	162,100	5,462	75,800	2,272	1,196,200	35,685	500	14
CATFISH AND BULLHEADS	100,700	8,056	410,500	92,327	22,300	5,348	800	189
CARFISH	-	-	5,900	39	4,600	46	600	15
MOONEYE	-	-	-	-	1,200	24	-	-
QUILLBACK	-	-	4,900	97	7,000	140	-	-
SHEEPSHEAD	468,300	29,300	73,500	4,407	34,400	2,063	1,200	69
STURGEON, COMMON	-	-	200	48	-	-	100	35
SUCKERS	46,700	934	22,100	443	2,500	50	200	4
TURTLES, SNAPPER	-	-	600	99	2,200	269	-	-
TOTAL	833,100	43,905	692,700	110,836	1,644,900	84,864	4,500	427

(CONTINUED ON NEXT PAGE)

# MISSISSIPPI RIVER FISHERIES

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## WISCONSIN - CATCH BY GEAR, 1964 - Continued

SPECIES	LINES, LONG OR SET WITH HOOKS		DIP NETS, COMMON		CROWFOOT BARS		BY HAND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	2,700	\$27	-	-	-	-	-	-
BUFFALOFISH . . . . .	1,500	161	500	\$55	-	-	-	-
CARP . . . . .	39,200	1,174	1,600	47	-	-	-	-
CATFISH AND BULLHEADS . . . . .	234,700	52,085	-	-	-	-	-	-
EELS, COMMON . . . . .	100	22	-	-	-	-	-	-
GARFISH . . . . .	700	7	-	-	-	-	-	-
GOLDFISH . . . . .	200	-	-	-	-	-	-	-
SHEEPSHEAD . . . . .	29,500	1,775	-	-	-	-	-	-
STURGEON, SHOVELNOSE . . . . .	1,100	260	-	-	-	-	-	-
SUCKERS . . . . .	300	7	-	-	-	-	-	-
MUSSEL SHELLS . . . . .	-	-	-	-	162,500	\$4,875	11,600	\$348
TURTLES, SNAPPER . . . . .	2,700	329	-	-	-	-	-	-
TOTAL . . . . .	312,800	55,851	2,100	102	162,500	4,875	11,600	348

## WISCONSIN - CATCH BY WATERS, 1964

SPECIES	MISSISSIPPI RIVER PROPER		MISSISSIPPI RIVER AREA, UNCLASSIFIED		LAKE WINNEBAGO	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BOWFIN . . . . .	4,900	\$49	3,200	\$32	100	\$1
BUFFALOFISH . . . . .	678,800	74,672	615,100	67,666	-	-
BURBOT . . . . .	-	-	28,500	285	24,300	243
CARP . . . . .	4,106,500	123,191	3,306,500	99,193	49,700	1,491
CATFISH AND BULLHEADS . . . . .	677,400	152,142	103,300	8,261	-	-
EELS, COMMON . . . . .	100	22	-	-	-	-
GARFISH . . . . .	11,400	114	15,100	150	100	9
GOLDFISH . . . . .	6,200	163	4,900	98	100	2
QUILLBACK . . . . .	19,000	579	-	-	-	-
SHEEPSHEAD . . . . .	471,600	28,292	125,600	7,532	1,952,300	117,132
STURGEON, SHOVELNOSE . . . . .	1,600	393	-	-	-	-
SUCKERS . . . . .	54,300	1,087	77,200	1,545	400	8
MUSSEL SHELLS . . . . .	174,100	5,223	-	-	-	-
TURTLES, SNAPPER . . . . .	6,000	724	100	17	-	-
TOTAL . . . . .	6,213,900	386,451	4,279,500	184,779	2,027,000	118,886

## WYOMING

THE COMMERCIAL FISHERIES WERE CONFINED TO THE MISSISSIPPI RIVER DRAINAGE AREA. THE CATCH CONSISTED OF CARP, 198,000 POUNDS, \$5,940; SHEEPSHEAD, 95,000 POUNDS, \$5,700. TWO CASUAL FISHERMEN EMPLOYING 2 MOTOR BOATS FISHED 1 HAUL SEINE OF 100 YARDS IN LENGTH.



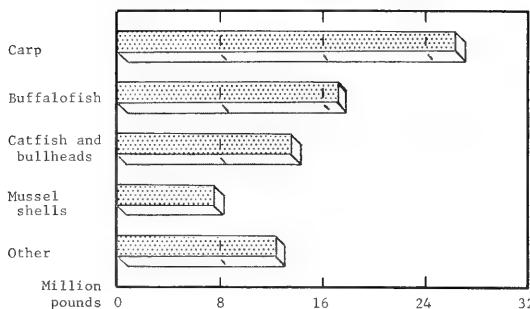
# MISSISSIPPI RIVER FISHERIES

## GREAT LAKES AND MISSISSIPPI RIVER CATCH - BY STATES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

STATE	GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALABAMA . . . . .	-	-	4,579	829	4,579	829
ARIZONA . . . . .	-	-	12	2	12	2
ARKANSAS . . . . .	-	-	4,031	495	4,031	495
COLORADO . . . . .	-	-	168	27	168	27
IDAHO . . . . .	-	-	1,231	66	1,231	66
ILLINOIS . . . . .	645	112	6,776	63	7,421	743
INDIANA . . . . .	11	2	1,840	130	1,851	132
IOWA . . . . .	-	-	3,737	300	3,737	300
KANSAS . . . . .	-	-	39	11	39	11
KENTUCKY . . . . .	-	-	1,416	209	1,416	209
LOUISIANA . . . . .	-	-	7,444	1,099	7,444	1,099
MICHIGAN . . . . .	19,769	2,522	-	-	19,769	2,522
MINNESOTA . . . . .	5,199	242	11,147	723	16,346	965
MISSISSIPPI . . . . .	-	-	2,796	326	2,796	326
MONTANA . . . . .	-	-	353	46	353	46
NEBRASKA . . . . .	-	-	237	16	237	16
NEW MEXICO . . . . .	-	-	281	33	281	33
NEW YORK . . . . .	446	90	59	16	446	90
NORTH DAKOTA . . . . .	-	-	488	33	488	33
OHIO . . . . .	11,230	1,006	-	-	11,230	1,006
OKLAHOMA . . . . .	-	-	699	87	699	87
PENNSYLVANIA . . . . .	817	91	-	-	817	91
SOUTH DAKOTA . . . . .	-	-	3,208	188	3,208	188
TENNESSEE . . . . .	-	-	9,766	1,148	9,766	1,148
TEXAS . . . . .	-	-	1,051	123	1,051	123
UTAH . . . . .	-	-	2,960	141	2,960	141
WISCONSIN . . . . .	18,570	1,505	12,520	690	31,090	2,195
WYOMING . . . . .	-	-	293	12	293	12
TOTAL . . . . .	56,687	5,572	77,131	7,383	133,618	12,955

### MISSISSIPPI RIVER CATCH, 1964



# MISSISSIPPI RIVER FISHERIES

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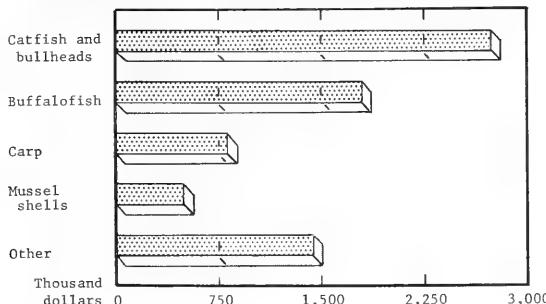
## GREAT LAKES AND MISSISSIPPI RIVER CATCH - BY SPECIES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES . . . . .	11,745	219	-	-	11,745	219
BLUE PIKE . . . . .	(1)	(1)	-	-	(1)	(1)
BOWFIN . . . . .	2	(1)	143	4	145	4
BUFFALOFISH . . . . .	121	15	17,399	1,833	17,520	1,848
BURBOT . . . . .	236	13	69	1	307	14
CARP . . . . .	5,260	150	25,938	630	31,816	960
CATFISH AND BULLHEADS . . . . .	1,530	367	13,574	2,784	15,104	3,171
CHUBS . . . . .	7,277	1,157	-	-	7,217	1,157
CISCO . . . . .	9	3	-	-	9	3
CRAPPIE . . . . .	2	(1)	15	4	17	4
EELS, COMMON . . . . .	33	7	1	(1)	34	7
GARFISH . . . . .	(1)	(1)	776	37	776	37
GIZZARD SHAD . . . . .	11	(1)	-	-	11	(1)
GOLDFISH . . . . .	159	4	-	-	159	4
LAKE HERRING . . . . .	6,261	371	-	-	6,261	371
LAKE TROUT . . . . .	102	67	-	-	102	67
MINNOWS . . . . .	-	-	2	19	2	19
MOUNTAIN OR GOLDEN . . . . .	(1)	(1)	25	2	25	2
PADDELFISH . . . . .	-	-	820	110	820	110
PIKE OR PICKEREL . . . . .	155	22	93	13	248	35
QUILLBACK . . . . .	9	(1)	441	20	450	20
SALMON, RED . . . . .	-	-	74	37	74	37
ROCK BASS . . . . .	13	2	-	-	13	2
SAUGER . . . . .	69	6	-	-	69	6
SCULPIN . . . . .	2	(1)	-	-	2	(1)
SHEEPSHEAD . . . . .	4,571	79	5,512	345	10,083	424
SMELT . . . . .	3,466	138	-	-	3,468	138
STURGEON, SHOVELNOSE . . . . .	5	4	43	6	48	10
SURKERN . . . . .	1,212	48	873	22	2,085	70
SUNFISH . . . . .	12	1	-	-	12	1
TULLIBEE . . . . .	2,223	67	(1)	(1)	2,223	67
WHITE BASS . . . . .	1,542	254	72	7	1,614	261
WHITEFISH . . . . .	-	-	-	-	-	-
COMMON . . . . .	1,423	842	132	52	1,555	894
MENOMINEE . . . . .	62	13	-	-	62	13
WHITE PERCH . . . . .	3	(1)	-	-	3	(1)
YELLOW BASS . . . . .	-	-	1	(1)	1	(1)
YELLOW PERCH . . . . .	8,303	1,394	279	65	8,562	1,459
YELLOW PIKE . . . . .	905	309	638	207	1,543	516
UNCLASSIFIED, FOR FOOD . . . . .	-	-	6	3	6	3
ARTEMIA (BRINE SHRIMP) EGGS . . . . .	-	-	108	54	108	54
CRAYFISH . . . . .	-	-	1,987	330	1,987	330
SHRIMP . . . . .	-	-	17	4	17	4
MUSSEL SHELLS . . . . .	-	-	7,847	492	7,847	492
PEARLS AND SLUGS . . . . .	-	-	-	12	-	12
TURTLES:	-	-	-	-	-	-
BABY . . . . .	-	-	11	50	11	50
SLIDER . . . . .	-	-	31	1	31	1
SNAPPER . . . . .	-	-	154	22	154	22
FROGS . . . . .	-	-	50	17	50	17
<b>TOTAL . . . . .</b>	<b>56,687</b>	<b>5,572</b>	<b>77,131</b>	<b>7,383</b>	<b>133,818</b>	<b>12,955</b>

1/ LESS THAN 500 POUNDS OR \$500.

## VALUE OF MISSISSIPPI RIVER CATCH, 1964



## SECTION 10 - HAWAII FISHERIES

The 1964 landings of commercially caught fish and shellfish at ports in the State of Hawaii were 12.7 million pounds valued at \$2.8 million to the fishermen. Compared with 1963, this was a gain of about 1.0 million pounds (8 percent) and \$168,500 (6 percent). The increase in both volume and value of the catch resulted principally from greater landings of skipjack (9.0 million pounds--up 924,000 pounds) and yellowfin tuna (500,000 pounds--up 115,000 pounds). Other species showing gains were striped marlin, jack crevalle, and bigeye scad. There were slight declines in landings of bigeye tuna, dolphin, and jack mackerel. Tuna, largely skipjack, accounted for 82 percent of the quantity and 67 percent of the value of all fishery items landed in Hawaii.

During 1964 the Bureau's Biological Laboratory in Honolulu gathered information on the longline fishery and found that an increasing number of longline vessels were leaving their usual fishing grounds, within 50 miles of the Hawaii Coast, to fish in areas located from 200 to 400 miles south of the islands. They made some of their largest catches of bigeye tuna in these areas.

In 1964, the State of Hawaii gradually curtailed operation of the bait-rearing plant established in 1962, and instead studied growth and depuration of oysters, experimented on tagging the Pacific threadfin and jack mackerel, and cultivating the local and Malaysian shrimp.

Fishery products were landed at six of the eight principal islands that form the State of Hawaii. Oahu led the islands in landings with 10 million pounds--80 percent of the total. The island of Hawaii was next with 1.6 million pounds, followed by Maui with 712,000 pounds. The remainder of the catch was landed at Kauai, Molokai, and Lanai. The 1964 catch was taken by 743 fishermen, who operated 57 vessels of 5 net tons and over, 350 motor boats, and 24 other boats.

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 1964 operating units and catch by islands of the State of Hawaii. Condensed summary data on the operating units and catch of Hawaii, appearing on the following pages, have been published previously in Current Fishery Statistics No. 3940.

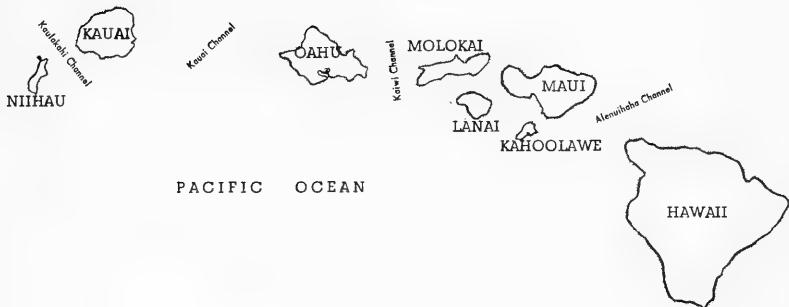


SKIPJACK TUNA

# HAWAII FISHERIES

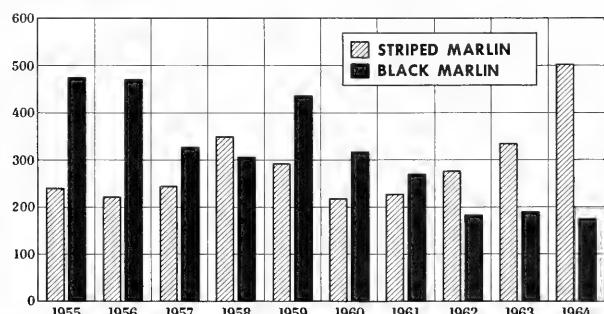
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## STATE OF HAWAII



### HAWAII CATCH OF BLACK AND STRIPED MARLIN, 1955-64

Thousand pounds



# HAWAII FISHERIES

## SECTIONAL SUMMARIES

### SUMMARY OF CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

ISLAND	FISH		SHELLFISH, ETC.		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
HAWAII . . . . .	1,602	338	12	7	1,614	345
MOLOKAI . . . . .	15	8	1	2	16	10
OAHU . . . . .	10,144	2,270	43	23	10,187	2,293
KAUAI . . . . .	138	54	7	4	145	58
MAUI . . . . .	706	133	6	6	712	139
LANAI . . . . .	11	3	(1)	(1)	11	3
TOTAL . . . . .	12,616	2,806	69	42	12,685	2,848

1/ LESS THAN 500 POUNDS OR \$500.

### SUMMARY OF OPERATING UNITS, 1964

ITEM	TOTAL	
	NUMBER	
FISHERMEN:		
ON VESSELS . . . . .	233	
ON BOATS AND SHORE . . . . .	510	
TOTAL . . . . .	743	
VESSELS, MOTOR, GROSS TONNAGE . . . . .	57	
BOATS:	1,722	
MOTOR . . . . .	350	
OTHER . . . . .	24	

NOTE:--DATA ARE NOT AVAILABLE ON THE NUMBER AND SIZE OF GEAR USED IN THE HAWAII FISHERIES. THERE WERE 17 FISHERY WHOLESALING AND MANUFACTURING ESTABLISHMENTS IN THE STATE OF HAWAII IN 1964. PEAK EMPLOYMENT IN THESE PLANTS TOTALED 327 PERSONS.

### HAWAII - CATCH BY SPECIES, 1964

SPECIES	TOTAL	
	POUNDS	VALUE
ENGLISH FISH		
OCEAN CATCH:		
AMBERJACK . . . . .	95,639	\$27,515
BARRACUDA . . . . .	3,068	665
BARRACUDA, JAPANESE . . . . .	6,179	2,463
BIGEYE SCAD . . . . .	160,526	117,261
BONEFISH . . . . .	25,048	6,572
CREVETTE; DORY . . . . .		
JACK . . . . .	3,473	1,399
DAMSELDFISH . . . . .	107,912	42,594
DOLPHIN . . . . .	2,753	983
EELS:		
CONGER . . . . .	3,574	366
MORAY . . . . .	2,596	162
GOATFISHES:		
MACKEREL, JACK . . . . .		
BLACK . . . . .	11,925	12,489
SAILFISH . . . . .	3,539	2,096
SILVER, STRIPED . . . . .	21,005	12,550
MILKFISH . . . . .	7,243	4,052
MOULDS . . . . .	68,487	28,786
WEKE-ULA . . . . .	12,647	8,415
OPELU . . . . .	292,262	103,556
MARLIN:		
BLACK . . . . .	174,173	47,910
SAILFISH . . . . .	11,275	1,570
SILVER . . . . .	5,980	2,141
STRIPED . . . . .	501,614	131,595
MILKFISH . . . . .	10,775	3,765
MOULDS . . . . .	2,756	1,754
WEKE-ULA . . . . .	14,621	12,321
PARROT FISH . . . . .	4,894	1,459
RED BIGEYE . . . . .	2,915	1,159
RUDDERFISH . . . . .	9,643	4,316
RUNNER . . . . .	144	37
SARDINE . . . . .	145	20
SEA BASS, BLACK . . . . .	24,091	9,807
SNAPPER:		
GRAY . . . . .	89,779	36,304
PINK . . . . .	15,695	8,462
PINK . . . . .	105,575	51,077
RED . . . . .	22,892	18,349
RED . . . . .	57,422	52,739

SEE NOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# HAWAII FISHERIES

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## HAWAII - CATCH BY SPECIES, 1964 - Continued

SPECIES		TOTAL	
ENGLISH	HA威IAN	POUNDS	VALUE
OCEAN CATCH - CONTINUED: FISH - CONTINUED			
SPOT . . . . .	A'AWA . . . . .	1,899	\$306
SQUIRRELISH . . . . .	UU . . . . .	15,245	9,919
SURGEON FISH: . . . . .	KALA . . . . .	27,275	3,618
SWORDFISH. . . . .	MAIKO. . . . .	1,151	208
TANG: . . . . .	PALANI . . . . .	8,601	1,806
CONVICT. . . . .	PUALU. . . . .	9,263	1,695
ORANGE SPOT. . . . .	A'IU. . . . .	23,733	3,976
TENPOUNDER. . . . .			
THREADFIN. . . . .	MANINI . . . . .	12,232	5,645
TRIGGERFISH. . . . .	NAENAE . . . . .	3,454	358
TUNA: . . . . .	AWAAWA . . . . .	8,496	2,241
ALBACORE . . . . .	MOI. . . . .	15,658	12,516
BIGEYE AND BLUEFIN . . . . .	HUMUHUMU . . . . .	1,928	568
LITTLE . . . . .	AHI PALAHIA. . . . .	9,495	3,107
SKIPJACK . . . . .	AHI. . . . .	839,485	493,568
YELLOWFIN. . . . .	KAWAKAWA . . . . .	34,534	5,835
TOTAL TUNA. . . . .	AKU. . . . .	9,023,599	1,221,698
AHJ. . . . .		500,117	185,486
WAHOO. . . . .		10,407,230	1,909,694
UNCLASSIFIED . . . . .	ONO. . . . .	33,083	6,431
TOTAL FISH. . . . .		34,158	11,002
		12,572,509	2,774,363
	SHELLFISH, ETC.		
CRABS: . . . . .			
LIMPET . . . . .	KONA . . . . .	9,595	5,102
LOBSTERS: . . . . .	KUAHONU. . . . .	4,087	3,350
SILVER. . . . .	MOALA. . . . .	2,162	926
SPINY. . . . .	PAPAI. . . . .	1,559	395
OCTOPUS. . . . .	SAMOAN. . . . .	15	15
SEWEED. . . . .	OP'IHI. . . . .	3,822	8,766
SHRIMP. . . . .	ULAPAPAPA. . . . .	10	7
SQUID. . . . .	ULA. . . . .	9,846	7,896
TREPANG [SEA CUCUMBER]. . . . .	HEC. . . . .	7,406	4,195
TURTLES. . . . .	LIMU. . . . .	12,271	2,956
TOTAL SHELLFISH, ETC. . . . .	OPEA. . . . .	150	108
	MUHEE. . . . .	8,704	3,204
	HONU. . . . .	234	244
		1,609	321
TOTAL OCEAN CATCH . . . . .		61,470	37,506
		12,633,979	2,811,869
	FISH		
POND CATCH: 1/			
BARRACUDA. . . . .	KAKU . . . . .	1,485	1,240
BONEFISH. . . . .	OIO. . . . .	1,778	614
CREVALLE, JACK. . . . .	ULUA . . . . .	648	601
GOATFISH. . . . .	WEKE . . . . .	1	{2}
MI LKFISH. . . . .	AWA. . . . .	12,636	7,362
MOUNTAIN BASS. . . . .	AHOLEHOLE. . . . .	2,916	1,112
MULLET. . . . .	AMAMA. . . . .	19,823	18,696
RUNNER. . . . .	LAI. . . . .	125	41
SURFON FISH. . . . .	PALU. . . . .	42	10
TENPOUNDER. . . . .	AWAAWA. . . . .	3,251	1,074
THREADFIN. . . . .	MOI. . . . .	32	32
UNCLASSIFIED. . . . .		156	73
TOTAL FISH. . . . .		42,893	31,255
	SHELLFISH, ETC.		
CLAMS, HARD. . . . .	OLEPE. . . . .	152	273
CRABS: . . . . .			
TURTLES. . . . .	KUAHONU. . . . .	2,774	2,063
	MOALA. . . . .	2,167	866
	PAPAI. . . . .	1,230	395
	SAMOAN. . . . .	1,350	1,044
	HONU. . . . .	52	5
TOTAL SHELLFISH, ETC. . . . .		7,725	4,666
TOTAL POND CATCH. . . . .		50,618	35,921
GRAND TOTAL . . . . .		12,684,597	2,847,790

1/ SALT-WATER. 2/ LESS THAN 50 CENTS.

NOTE -- STATISTICS ON THE CATCH ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. THE MEAT WEIGHT OF HARD CLAMS AND LIMPETS WAS BASED ON A YIELD OF 25 PERCENT AND 20 PERCENT RESPECTIVELY.

**HAWAII FISHERIES****HAWAII - OPERATING UNITS BY ISLAND AND GEAR, 1964**

ITEM	HAWAII						
	BAG NETS	POTS AND TRAPS	GILL NETS	LINES			
				HAND	POLE AND LINE	TROLL	LONG OR SET WITH HOOKS
FISHERMEN:							
ON VESSELS . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
ON BOATS AND SHORE . . . . .	-	-	5	-	22	1	5
TOTAL . . . . .	2	5	5	89	4	27	12
VESSELS, MOTOR . . . . .							
GROSS TONNAGE . . . . .							
BOATS:							
MOTOR . . . . .	-	-	-	-	3	1	2
OTHER . . . . .	-	-	-	-	121	23	32
TOTAL . . . . .	2	3	3	65	3	22	4
1	-	-	-	1	-	-	-
ITEM	HAWAII - CONTINUED						
	LIFT NETS	CAST NETS	SPEARS	BY HAND	POND 1/	TOTAL, EXCLUSIVE OF DUPLICATION	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
FISHERMEN:							
ON VESSELS . . . . .	-	-	-	-	-	28	
ON BOATS AND SHORE . . . . .	18	5	1	3	1	134	
TOTAL . . . . .	18	5	1	3	1	162	
VESSELS, MOTOR . . . . .	-	-	-	-	-	6	
GROSS TONNAGE . . . . .	-	-	-	-	-	176	
BOATS:							
MOTOR . . . . .	-	-	-	-	1	92	
OTHER . . . . .	17	1	-	-	-	1	
ITEM	MOLOKAI						
	GILL NETS	LINES			CAST NETS	SPEARS	BY HAND
		HAND	TROLL				
FISHERMEN, ON BOATS AND SHORE . . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
BOATS, MOTOR . . . . .	32	1	2	1	5	4	-
	10	1	2	-	-	-	-
ITEM	MOLOKAI - CONTINUED			OAHU			
	POND 1/	TOTAL, EXCLUSIVE OF DUPLICATION	HAUL SEINES	BAG NETS	POTS AND TRAPS	GILL NETS	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN:							
ON VESSELS . . . . .	-	-	-	9	-	12	
ON BOATS AND SHORE . . . . .	3	42	2	4	23	39	
TOTAL . . . . .	3	42	2	13	23	51	
VESSELS, MOTOR . . . . .	-	-	-	2	-	4	
GROSS TONNAGE . . . . .	-	-	-	48	-	117	
BOATS:							
MOTOR . . . . .	-	12	2	2	18	26	
OTHER . . . . .	-	-	-	2	-	2	

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# HAWAII FISHERIES

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## HAWAII - OPERATING UNITS BY ISLAND AND GEAR, 1964 - Continued

ITEM	OAHU - CONTINUED					LIFT NETS	
	LINES				NUMBER		
	HAND	POLE AND LINE	TROLL	LONG OR SET WITH HOOKS			
FISHERMEN: ON VESSELS . . . . . ON BOATS AND SHORE . . . . .	NUMBER 6 119	NUMBER 108 3	NUMBER 5 15	NUMBER 43 9	NUMBER 3 11		
TOTAL . . . . .	125	111	20	52	14		
VESSELS, MOTOR . . . . . GROSS TONNAGE . . . . . BOATS: MOTOR . . . . . OTHER . . . . .	3 82 98	12 562 14 1	5 116 15	22 490 8	1 18 7 1		
ITEM	OAHU - CONTINUED					TOTAL, EX- CLUSIVE OF DUPLICATION	
	CAST NETS	SPEARS	BY HAND	POND 1/	NUMBER		
	NUMBER - 3	NUMBER - 3	NUMBER - 4	NUMBER - 7	NUMBER 174 186		
TOTAL . . . . .	3	3	4	7	360		
VESSELS, MOTOR . . . . . GROSS TONNAGE . . . . . BOATS: MOTOR . . . . . OTHER . . . . .	- - 2 -	- - 1 -	- - - -	- - 1 3	46 1,367 149 8		
ITEM	KAUAI						
	HAUL SEINES	BAG NETS	GILL NETS	LINES		LONG OR SET WITH HOOKS	
				HAND	TROLL		
FISHERMEN: ON VESSELS . . . . . ON BOATS AND SHORE . . . . .	NUMBER - 3	NUMBER - 6	NUMBER - 16	NUMBER 2 30	NUMBER 2 17	NUMBER - 5	
TOTAL . . . . .	3	6	16	32	19	5	
VESSELS, MOTOR . . . . . GROSS TONNAGE . . . . . BOATS: MOTOR . . . . . OTHER . . . . .	- - 1 2	- - 6	- - 3 12	1 9 25 1	1 9 15	- - 5	
ITEM	KAUAI - CONTINUED				MAUI		
	LIFT NETS	CAST NETS	BY HAND	TOTAL, EX- CLUSIVE OF DUPLICATION	HAUL SEINES	BAG NETS	
	NUMBER - 5	NUMBER - 4	NUMBER - 2	NUMBER 2 54	NUMBER - 4	NUMBER - 1	
TOTAL . . . . .	5	4	2	56	4	1	
VESSELS, MOTOR . . . . . GROSS TONNAGE . . . . . BOATS: MOTOR . . . . . OTHER . . . . .	- - 5 -	- - 3 -	- - - -	1 9 32 15	- - 2	- - 1	

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# HAWAII FISHERIES

## HAWAII - OPERATING UNITS BY ISLAND AND GEAR, 1964 - Continued

ITEM	MAUI - CONTINUED				
	POTS AND TRAPS	GILL NETS	LINES		
			HAND	POLE AND LINE	TROLL
FISHERMEN: ON VESSELS, ON BOATS AND SHORE . . . . .					
-	-	-	-	28	1
3	12	38	-	-	13
TOTAL . . . . .	3	12	38	28	14
VESSELS, MOTOR . . . . .	-	-	-	3	1
GROSS TONNAGE . . . . .	-	-	-	150	20
BOATS, MOTOR . . . . .	2	7	35	3	12
MAUI - CONTINUED					
ITEM	LIFT NETS	SPEARS	BY HAND	TOTAL, EX- CLUSIVELY OF DUPLICATION	
FISHERMEN: ON VESSELS . . . . .					
-	-	-	-	29	
13	4	5	-	76	
TOTAL . . . . .	13	4	5	105	
VESSELS, MOTOR . . . . .	-	-	-	-	4
GROSS TONNAGE . . . . .	-	-	-	-	170
BOATS, MOTOR . . . . .	9	1	-	-	57
LANAI					
ITEM	GILL NETS	LINES		CAST NETS	TOTAL, EX- CLUSIVELY OF DUPLICATION
		HAND	TROLL		
FISHERMEN, ON BOATS AND SHORE . . . . .					
3	11	8	3	18	
BOATS, MOTOR . . . . .	-	6	7	-	8

1/ SEINES, MISCELLANEOUS NETS, AND BY HAND.



# HAWAII FISHERIES

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## HAWAII - CATCH BY ISLANDS, 1964

SPECIES		HAWAII		MOLOKAI		OAHU	
ENGLISH	FISH	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
<b>OCEAN CATCH:</b>							
AMBERJACK . . . . .	KAHALA . . . . .	10,921	\$2,434	-	-	60,853	\$17,933
BARRACUDA . . . . .	KAKU . . . . .	133	13	-	-	2,412	445
BARRACUDA, JAPANESE . . . . .	KAWALEA . . . . .	4,241	1,847	-	-	1,797	573
BIGEYE SCAD . . . . .	AKULE . . . . .	26,408	19,357	2,806	\$2,024	84,297	66,207
BONEFISH . . . . .	OIO . . . . .	7,681	1,911	2,780	556	12,997	3,490
CREVALLE: . . . . .		-	-	-	-	-	-
BIG . . . . .	ULUA OMILU . . . . .	-	-	-	-	3,099	1,690
JACK . . . . .	ULUA . . . . .	8,965	3,136	325	185	89,117	35,078
DAMSELFISH . . . . .	KUPIPU . . . . .	113	48	-	-	2,603	916
DOLPHIN. . . . .	MAHIMAHI . . . . .	14,486	5,089	25	9	68,190	40,688
EELS: . . . . .		-	-	-	-	-	-
CONGER . . . . .	PUHI . . . . .	114	37	-	-	3,451	326
MORAY. . . . .	PUHI . . . . .	97	13	-	-	2,499	149
GOATFISHES: . . . . .		-	-	-	-	-	-
KUMU . . . . .	KUMU . . . . .	650	601	27	22	10,442	11,342
MALU . . . . .	MALU . . . . .	-	-	-	-	3,539	2,096
MONANO . . . . .	MONANO . . . . .	2,113	1,260	-	-	16,504	11,222
WEKE . . . . .	WEKE . . . . .	3,261	2,161	740	202	61,044	25,184
WEKE-ULA . . . . .	WEKE-ULA . . . . .	815	629	-	-	11,049	7,547
MACKEREL, JACK . . . . .	OPELU . . . . .	145,539	44,007	398	126	85,717	40,158
MARLIN: . . . . .		-	-	-	-	-	-
BLACK. . . . .	AIU . . . . .	53,743	8,828	-	-	119,918	39,054
SAILFISH . . . . .	AIU LEPE . . . . .	1,178	292	-	-	10,097	1,278
SILVER . . . . .	AIU . . . . .	722	136	-	-	5,258	2,005
STRIPED. . . . .	AIU . . . . .	53,245	14,857	-	-	447,983	116,633
MILKFISH . . . . .	AWA . . . . .	3,636	1,323	460	185	5,660	1,968
MOUNTAIN BASS . . . . .	AHOLEHOLE . . . . .	195	155	-	-	952	552
MULLET . . . . .	AMAAAMA . . . . .	429	39	1,414	962	7,702	7,745
PARROT FISH . . . . .	UHA . . . . .	69	33	-	-	4,787	1,423
RED BIGEYE . . . . .	ANIEOWEO . . . . .	978	388	8	2	823	314
RUDDERFISH . . . . .	NENUE . . . . .	526	250	-	-	8,279	3,698
RUNNER . . . . .	LAI . . . . .	10	2	-	-	57	13
SARDINE . . . . .	MAKI AWA . . . . .	-	-	-	-	45	10
SEA BASS, BLACK. . . . .	HAPUUPUU . . . . .	792	386	-	-	21,986	8,987
SNAPPER: . . . . .		-	-	-	-	-	-
GRAY . . . . .	UKU . . . . .	2,463	989	105	23	73,310	29,231
PINK . . . . .	KALIKALI . . . . .	910	543	-	-	14,631	7,662
PINK . . . . .	OPAKAPAKA . . . . .	8,190	4,219	-	-	66,145	33,212
RED. . . . .	UHALAULA . . . . .	3,017	2,447	-	-	18,933	15,164
RED. . . . .	ULUALUA KOAE . . . . .	1,520	1,273	-	-	54,234	50,499
SPOTTED. . . . .	AIWA . . . . .	1,488	250	-	-	413	52
SQUIRRELFISH . . . . .	UU . . . . .	945	3,697	334	285	5,346	3,899
SURGEON FISH: . . . . .		-	-	-	-	-	-
KALA . . . . .	KALA . . . . .	29	3	120	20	25,545	3,426
MAIKO . . . . .	MAIKO . . . . .	162	85	-	-	969	123
PALAN. . . . .	PALAN. . . . .	112	18	-	-	7,972	1,658
PUALU . . . . .	PUALU . . . . .	-	-	-	-	9,263	1,695
SWORDFISH. . . . .	AIU . . . . .	2,039	267	-	-	21,694	3,689
TANG: . . . . .		-	-	-	-	-	-
CONVICT. . . . .	MANINI . . . . .	1,345	856	627	308	8,598	3,618
ORANGE SPOT. . . . .	MANENAE . . . . .	26	6	-	-	3,426	362
TENPOUNDER . . . . .	AAWAAWA . . . . .	-	-	-	-	8,463	2,233
THREADFIN. . . . .	MOI . . . . .	2,167	1,537	2,035	1,628	6,758	6,148
TRIGGERFISH. . . . .	HUMUHUMU . . . . .	1,358	319	-	-	570	269
TUNA: . . . . .		-	-	-	-	-	-
ALbacore . . . . .	AHIPALAHIA . . . . .	657	264	-	-	8,838	2,643
BIGEYE AND BLUEFIN . . . . .	AHI . . . . .	144,471	73,608	-	-	654,752	419,906
LITTLE . . . . .	KAWAKAWA . . . . .	202	42	892	253	24,316	4,016
SKIPJACK . . . . .	AKU . . . . .	954,330	98,807	486	158	7,496,347	1,049,560
YELLOWFIN. . . . .	AHI . . . . .	109,674	33,849	-	-	359,535	142,499
TOTAL TUNA. . . . .		1,208,334	206,570	1,368	411	8,582,788	1,618,824
Wahoo. . . . .	ONO . . . . .	9,904	2,059	-	-	15,219	2,512
UNCLASSIFIED . . . . .		5,974	1,579	33	9	25,200	7,724
TOTAL FISH. . . . .		1,598,073	336,729	13,605	6,957	10,105,446	2,240,835
<b>SHELLFISH, ETC.</b>							
CRABS: . . . . .		-	-	-	-	-	-
KONA. . . . .	KONA. . . . .	1,167	687	386	278	1,808	1,245
KUAHONU. . . . .	KUAHONU. . . . .	179	72	-	-	3,908	3,278
MOALA. . . . .	MOALA. . . . .	-	-	-	-	2,162	926
PAPAI. . . . .	PAPAI. . . . .	-	-	-	-	1,558	395
SAMOAN. . . . .	SAMOAN. . . . .	-	-	-	-	15	15
LIMPET. . . . .	OPIHI . . . . .	1,351	3,008	402	1,014	-	-
LOBSTERS: . . . . .		-	-	-	-	-	-
SLIPPER. . . . .	ULAPAPAPA . . . . .	-	-	-	-	10	7
SPINY. . . . .	ULA . . . . .	370	317	-	-	9,058	7,329

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# HAWAII FISHERIES

## HAWAII - CATCH BY ISLANDS, 1964 - Continued

SPECIES		HAWAII		MOLOKAI		OAHU	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SHELLFISH, ETC. - CONTINUED							
OCEAN CATCH - CONTINUED:							
OCTOPUS . . . . .	HEE . . . . .	142	\$95	447	\$266	4,546	\$2,435
SQUID . . . . .	MUHEE . . . . .	8,540	3,106	-	-	-	-
TREFOIL (SEA CUCUMBERS) . . . . .		-	-	-	-	234	244
TURTLES . . . . .	HONU . . . . .	100	20	-	-	509	50
SEAWEED . . . . .	LIMU . . . . .	75	50	-	-	11,590	2,338
TOTAL SHELLFISH, ETC. . . . .		11,924	7,355	1,235	1,558	35,498	16,262
TOTAL OCEAN CATCH . . . . .		1,609,997	344,084	14,840	8,515	10,140,944	2,259,997
FISH							
POND CATCH 1/:							
BARRACUDA . . . . .	KAKU . . . . .	-	-	195	86	1,290	1,154
BONEFISH . . . . .	OIO . . . . .	-	-	254	87	1,524	727
CREVALLE, JACK . . . . .	ULUA . . . . .	-	-	81	40	567	561
GOATFISHES . . . . .	WEKE . . . . .	-	-	-	-	1	(2)
MILKFISH . . . . .	AWA . . . . .	3,564	1,281	-	-	9,052	6,081
MOUNTAIN BASS . . . . .	AHOLEHOLE . . . . .	-	-	-	-	2,916	1,112
MULLET . . . . .	AMAMA . . . . .	-	-	-	-	19,138	18,230
RUNNER . . . . .	LAI . . . . .	-	-	685	666	125	41
SURGEON FISH . . . . .	PUALU . . . . .	-	-	-	-	42	10
TENPOUNDER . . . . .	AWAAWA . . . . .	-	-	-	-	3,251	1,074
THREADFIN . . . . .	MOI . . . . .	-	-	-	-	32	32
UNCLASSIFIED . . . . .		-	-	57	28	99	45
TOTAL FISH . . . . .		3,564	1,281	1,272	907	38,037	29,067
SHELLFISH, ETC.							
CLAMS, HARD . . . . .	OLEPE . . . . .	-	-	152	273	-	-
CRABS:							
KUAHONU . . . . .		-	-	-	-	2,774	2,083
MOALA . . . . .		-	-	-	-	2,167	866
PAPAI . . . . .		-	-	-	-	1,230	395
SAOMAN . . . . .		-	-	-	-	1,350	1,044
HONU . . . . .		-	-	-	-	52	5
TOTAL SHELLFISH, ETC. . . . .		-	-	152	273	7,573	4,393
TOTAL POND CATCH . . . . .		3,564	1,281	1,424	1,180	45,610	33,460
GRAND TOTAL . . . . .		1,613,561	345,365	16,264	9,695	10,186,554	2,292,557
SPECIES		KAUAI		MAUI		LANAI	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FISH							
OCEAN CATCH:							
AMBERJACK . . . . .	KAHALA . . . . .	19,564	\$6,209	4,202	\$899	99	\$40
BARRACUDA . . . . .	KAKU . . . . .	504	202	13	2	6	3
BARRACUDA, JAPANESE . . . . .	KAWELEA . . . . .	79	28	62	15	-	-
BIGEYE SCAD . . . . .	AKULE . . . . .	21,930	14,854	23,065	14,819	-	-
BONEFISH . . . . .	OIO . . . . .	283	75	2,307	540	-	-
CREVALLE:							
BLUE . . . . .	ULUA OM LU . . . . .	233	174	241	125	-	-
JACK . . . . .	ULUA . . . . .	3,018	1,079	6,108	2,996	379	221
DAMSELFISH . . . . .	KUPIPU . . . . .	-	-	3	2	34	17
DOLPHIN . . . . .	MAHI MAHI . . . . .	1,210	355	1,507	420	-	-
EELS, CONGER . . . . .	PUHI . . . . .	-	-	9	3	-	-
GOATFISHES:							
KUMU . . . . .		-	-	606	524	-	-
MOANO . . . . .		28	4	360	164	-	-
MOELUA . . . . .		-	-	7,192	4,021	51	31
WEKE . . . . .		1,244	721	1,368	518	-	-
WEKE-ULA . . . . .		864	169	119	70	-	-
MACKEREL, JACK . . . . .	OPELU . . . . .	15,006	5,186	45,099	13,899	503	180
MARLIN:							
BLACK . . . . .	AIU . . . . .	-	-	512	28	-	-
STRIPED . . . . .	AIU . . . . .	338	73	248	32	-	-
MILKFISH . . . . .	AWA . . . . .	3	1	996	267	-	-
MOUNTAIN BASS . . . . .	AHOLEHOLE . . . . .	414	217	1,180	820	15	10

SEE FOOTNOTES AT END OF TABLE.

{CONTINUED ON NEXT PAGE}

# HAWAII FISHERIES

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## HAWAII - CATCH BY ISLANDS, 1964 - Continued

SPECIES		KAUAI		MAUI		LANAI	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
<b>FISH - CONTINUED</b>							
<b>OCEAN CATCH - CONTINUED:</b>							
MULLET . . . . .	AMAMA . . . . .	3,768	\$3,002	308	\$213	-	-
PARROT FISH . . . . .	UHU . . . . .	18	3	-	-	-	-
RED BIGEYE . . . . .	AEWOMEWO . . . . .	724	302	362	153	-	-
RUDDERFISH . . . . .	NENUE . . . . .	758	332	80	36	-	-
RUNNER . . . . .	LAJ . . . . .	8	2	89	20	-	-
SARDINE . . . . .	MAKI AWA . . . . .	-	-	100	10	-	-
SEA BASS, BLACK . . . . .	HAPUUPUU . . . . .	430	143	683	291	-	-
SNAPPER; . . . . .							
GRAY . . . . .	URU . . . . .	6,929	2,689	6,846	3,294	126	\$78
PINK . . . . .	KALIKALI . . . . .	70	42	64	15	-	-
PINK . . . . .	OPAKAPAKA . . . . .	225	60	30,810	13,476	205	110
RED . . . . .	ULUALA . . . . .	528	254	1,314	684	-	-
RED . . . . .	ULUALA KOAE . . . . .	62	21	1,606	946	-	-
SPOT . . . . .	A'AWA . . . . .	-	-	28	4	-	-
SQUIRRELFISH . . . . .	UU . . . . .	2,868	1,562	446	274	306	202
SURGEON FISH; . . . . .							
	KALA . . . . .	1,516	362	65	7	-	-
	PALANI . . . . .	-	-	517	130	-	-
TANG, CONVICT . . . . .	MANINI . . . . .	1,300	635	272	183	90	45
TENPOUNDER . . . . .	AWA'AWA . . . . .	29	7	4	1	-	-
THREADFIN . . . . .	MOI . . . . .	3,361	2,358	937	659	400	186
<b>TUNA;</b>							
BIGEYE AND BLUEFIN . . . . .	AHI . . . . .	262	54	-	-	-	-
LITTLE . . . . .	KAWAKAWA . . . . .	3,234	630	4,520	485	1,380	409
SKIPJACK . . . . .	AKU . . . . .	7,576	1,543	557,425	69,932	7,435	1,698
YELLOWFIN . . . . .	AHI . . . . .	32,314	9,043	494	77	100	18
TOTAL TUNA. . . . .		43,366	11,270	562,439	70,494	8,915	2,125
WAHOO . . . . .	ONO . . . . .	6,929	1,663	1,031	197	-	-
UNCLASSIFIED . . . . .		689	119	2,158	1,100	104	71
TOTAL FISH. . . . .		138,316	54,172	705,836	132,351	11,233	3,319
<b>SELLFISH, ETC.</b>							
CRABS: . . . . .	KONA . . . . .	3,662	1,878	2,572	1,014	-	-
	PAPAI . . . . .	1	(2)	-	-	-	-
LIMPCT . . . . .	OPHI . . . . .	175	350	1,894	4,414	-	-
LOBSTERS, SPINY. . . . .	ULA . . . . .	348	210	70	40	-	-
OCTOPUS. . . . .	HEE . . . . .	1,604	1,062	587	298	80	40
SHRIMP. . . . .	OPAE . . . . .	-	-	150	108	-	-
SQUID. . . . .	MUHEE . . . . .	164	98	-	-	-	-
TURTLES. . . . .	HONU . . . . .	-	-	1,000	251	-	-
SEWEED. . . . .	LJMU. . . . .	506	568	-	-	-	-
TOTAL SELLFISH, ETC. . . . .		6,460	4,166	6,273	6,125	80	40
TOTAL OCEAN CATCH . . . . .		144,776	58,336	712,109	138,476	11,313	3,359
GRAND TOTAL . . . . .		144,776	58,336	712,109	138,476	11,313	3,359

1/ SALT-WATER.

2/ 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.

## HAWAII FISHERIES

## HAWAII - CATCH BY GEAR, 1964

SPECIES		HAUL SEINES		BAG NETS	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE
AMBERJACK . . . . .	KAHALA . . . . .	10	\$5	-	-
BARRACUDA . . . . .	KAKU . . . . .	97	60	-	-
BIGEYE SCAD . . . . .	AKULE . . . . .	146	68	91,390	\$59,045
BONEFISH . . . . .	OIO . . . . .	2,419	636	14,578	3,490
CREVALLA, JACK . . . . .	ULUA . . . . .	856	723	1,797	1,214
DAMSELFISH . . . . .	KUPIPI . . . . .	592	260	-	-
GOATFISHES: . . . . .					
	KUMU . . . . .	781	825	-	-
	MOANO . . . . .	55	22	-	-
	WEKE . . . . .	11,931	4,678	972	316
	WEKE-ULA . . . . .	126	85	-	-
MACKEREL, JACK . . . . .	OPELU . . . . .	-	-	325	120
MOUNTAIN BASS . . . . .	AHOLEHOLE . . . . .	26	18	-	-
MULLET . . . . .	AMAMA . . . . .	459	424	-	-
PARROT FISH . . . . .	UHU . . . . .	3,906	1,098	-	-
RED BIGEYE . . . . .	AWEOWEO . . . . .	38	7	-	-
Rudderfish . . . . .	NENUE . . . . .	3,757	2,223	3,486	1,055
RUNNER . . . . .	LAI . . . . .	4	1	-	-
SNAPPER: . . . . .					
GRAY . . . . .	UKU . . . . .	253	67	-	-
PINK . . . . .	KALIKALI . . . . .	65	8	-	-
SQUIRRELFISH . . . . .	UU . . . . .	136	77	-	-
SURGEON FISH: . . . . .					
	KALA . . . . .	11,098	1,748	600	151
	MAIKO . . . . .	314	15	-	-
	PALANI . . . . .	4,022	748	-	-
	PUALU . . . . .	5,077	930	57	16
TANG: . . . . .					
CONVICT . . . . .	MANINI . . . . .	2,814	1,481	-	-
ORANGE SPOT . . . . .	NAENAEC . . . . .	3,017	300	-	-
TENFOUNDER . . . . .	AAWAWA . . . . .	64	19	3,000	708
THREEDAFIN . . . . .	MOI . . . . .	710	626	8,552	7,292
UNCLASSIFIED . . . . .		305	147	303	221
TOTAL . . . . .		53,062	17,319	125,060	73,630
SPECIES		POTS AND TRAPS		GILL NETS, ANCHOR, SET OR STAKE	LINES POLE & LINE (AND HAND)
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE
AMBERJACK . . . . .	KAHALA . . . . .	1,546	\$559	-	93,806 \$26,894
BARRACUDA . . . . .	KAKU . . . . .	13	8	185	754 190
BARRACUDA, JAPANESE . . . . .	KAWELEA . . . . .	-	-	35	4,926 2,131
BIGEYE SCAD . . . . .	AKULE . . . . .	-	-	12	-
BONEFISH . . . . .	OIO . . . . .	28	9	14,053 9,977	54,537 47,973
CREVALLA: . . . . .				1,652	402 5,854 1,672
BLUE . . . . .	ULUALA OMILU . . . . .	1,295	697	169	157 2,009 1,135
JACK . . . . .	ULUALA . . . . .	6,148	3,008	623	437 97,463 36,893
DAMSELFISH . . . . .	KUPIPI . . . . .	1,073	283	595	238 248 86
DOLPHIN . . . . .	MAHIMAHU . . . . .	-	-	-	32,952 14,349
EELS: . . . . .					
CONGER . . . . .	PUHI . . . . .	3,447	327	3	1 108 36
MORAY . . . . .	PUHI . . . . .	2,479	147	10	2 107 13
GOATFISHES: . . . . .					
	KUMU . . . . .	8,730	9,560	782	568 965 887
	MALU . . . . .	3,539	2,096	-	-
	MOANO . . . . .	16,030	10,923	29	13 2,762 1,522
	MOELUA . . . . .	-	-	-	7,206 4,028
	WEKE . . . . .	25,441	10,727	6,383	2,590 3,757 2,628
	WEKE-ULA . . . . .	5,208	3,198	-	7,308 5,036
MACKEREL, JACK . . . . .	OPELU . . . . .	-	-	-	148,280 62,785
MARLIN: . . . . .					
BLACK . . . . .	AIU . . . . .	-	-	-	2,424 461
SAILFISH . . . . .	AIU LEPE . . . . .	-	-	-	104 55
SWORDFISH . . . . .	AIU . . . . .	-	-	-	114 57
STRIPED . . . . .	AIU . . . . .	-	-	-	-
MILKFISH . . . . .	AVA . . . . .	1	(1)	5,210	1,795 1,058 325
MOUNTAIN BASS . . . . .	AHOLEHOLE . . . . .	-	-	2,173	2,047 74,411
MULLET . . . . .	AMAMA . . . . .	8	6	1,328	168 141
PARROT FISH . . . . .	UHU . . . . .	478	185	24	7 51 23
RED BIGEYE . . . . .	AWEOWEO . . . . .	224	98	637	248 1,976 766
Rudderfish . . . . .	NENUE . . . . .	42	17	363	174 474 218
RUNNER . . . . .	LAI . . . . .	-	-	99	27 61 9
SARDINE . . . . .	MAKI AWA . . . . .	-	-	-	134 17
SEA BASS, BLACK . . . . .	HAPUUPU . . . . .	-	-	-	24,091 9,807
SNAPPER: . . . . .					
GRAY . . . . .	UKU . . . . .	373	153	11	4 89,102 36,061
PINK . . . . .	KALIKALI . . . . .	4	2	-	15,625 9,452
PINK . . . . .	OPAKAPAKA . . . . .	472	210	-	18,074 9,852
RED . . . . .	ULUALA . . . . .	-	-	-	23,592 18,549
RED . . . . .	ULUALA KOAE . . . . .	-	-	-	57,422 52,739

SEE FOOTNOTES AT END OF TABLE.

{CONTINUED ON NEXT PAGE}

# HAWAII FISHERIES

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## HAWAII - CATCH BY GEAR, 1964 - Continued

SPECIES	HAWAIIAN	POTS AND TRAPS		GILL NETS, ANCHOR, SET OR STAKE		LINES POLE & LINE (AND HAND)	
		POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
SPOT . . . . .	A'I AWA . . . . .	21	\$5	8	\$3	1,870	\$298
SQUIRRELFISH . . . . .	UU . . . . .	2,211	1,647	281	188	12,452	7,922
SURGEON FISH; . . . . .	KALA . . . . .	11,174	708	1,129	187	137	31
	MAIKO . . . . .	17	1	648	110	-	-
	PALANI . . . . .	3,228	697	281	76	429	71
	PAU'AU . . . . .	2,367	421	-	-	1,285	223
SWORDFISH . . . . .	A'IU . . . . .	-	-	-	-	212	53
TANG; . . . . .	-	-	-	-	-	-	-
CONVICT . . . . .	MANINI . . . . .	4,326	1,348	296	189	11	6
ORANGE SPOT . . . . .	NAENAE . . . . .	411	52	-	-	-	-
TENPOUNDER . . . . .	AWA'AWA . . . . .	12	4	120	35	5,300	1,475
THREADFIN . . . . .	MOI . . . . .	2	2	4,283	3,084	345	264
TRIGGERFISH; . . . . .	HUMAHUMU . . . . .	570	268	-	-	1,358	320
TUNA; . . . . .	-	-	-	-	-	-	-
BIGEYE AND BLUEFIN . . . . .	AHI . . . . .	-	-	-	-	3,541	554
LITTLE . . . . .	KAWAKAWA . . . . .	-	-	-	-	31,714	5,214
SKIPJACK . . . . .	AKU . . . . .	-	-	-	-	9,014,098	1,219,925
YELLOWFIN . . . . .	AHI . . . . .	-	-	-	-	168,533	35,211
WAHOO . . . . .	ONO . . . . .	-	-	-	-	13,851	3,184
UNCLASSIFIED . . . . .	-	-	-	-	-	18,521	7,422
CRABS; . . . . .	-	-	-	-	-	-	-
	KONA . . . . .	30	24	-	-	-	-
	KUAHONU . . . . .	3,998	3,314	-	-	-	-
	MOALA . . . . .	2,138	913	-	-	-	-
	PAPAI . . . . .	20	13	1	(1)	-	-
LOBSTERS; . . . . .	-	-	-	-	-	-	-
SLIPPER . . . . .	ULAPAPAPA . . . . .	10	7	-	-	-	-
SPINY . . . . .	ULA . . . . .	3,826	2,986	5,495	4,471	310	287
OCTOPUS . . . . .	HEE . . . . .	3,106	1,533	4	3	198	96
QUID; . . . . .	MUHEE . . . . .	-	-	-	-	8,704	3,204
TURTLES; . . . . .	HONU . . . . .	-	-	344	55	-	-
TOTAL . . . . .	-	120,244	57,644	60,167	38,333	10,088,984	1,673,456

SPECIES	HAWAIIAN	LINES - CONTINUED			LIFT NETS	
		TROLL	LONG OR SET WITH HOOKS	POUNDS	VALUE	
AMBERJACK . . . . .	KAHALA . . . . .	277	\$57	-	-	-
BARRACUDA . . . . .	KAKU . . . . .	188	10	1,831	\$284	-
BONEFISH . . . . .	OJO . . . . .	-	-	24	11	-
CREVALLE, JACK . . . . .	ULUA . . . . .	590	203	159	78	30
DOLPHIN . . . . .	MAHTIMAH . . . . .	4,271	1,172	48,185	31,040	\$12
GOATFISHES; . . . . .	-	-	-	-	-	-
	KUMU . . . . .	-	-	-	-	13
	MOANO . . . . .	-	-	-	-	7
	WEKE . . . . .	-	-	-	-	43
MACKEREL, JACK . . . . .	OPELU . . . . .	-	-	-	-	6
MARLIN; . . . . .	-	-	-	-	-	2
BLACK . . . . .	A'IU . . . . .	38,907	5,063	132,842	42,386	-
SAILFISH . . . . .	A'IU LEPE . . . . .	-	-	11,171	1,515	-
SILVER . . . . .	A'IU . . . . .	-	-	5,566	2,084	-
SILVER PED. . . . .	A'IU . . . . .	1,764	172	498,992	131,098	-
SNAPPER; . . . . .	-	-	-	-	-	143,629
GRAY . . . . .	UKU . . . . .	-	-	-	-	40,633
PINK . . . . .	OPAKAPAKA . . . . .	-	-	-	-	-
SQUIRRELFISH . . . . .	UU . . . . .	29	15	-	-	-
SURGEON FISH . . . . .	PALANI . . . . .	-	-	-	-	9
SWORDFISH . . . . .	A'IU . . . . .	-	-	23,521	3,923	-
TANG, CONVICT . . . . .	MANINI . . . . .	-	-	-	-	47
TUNA; . . . . .	ALBACORE . . . . .	-	-	9,495	3,107	-
BIGEYE AND BLUEFIN . . . . .	A'IU PALAHIA . . . . .	-	-	835,666	492,975	-
	AHI . . . . .	258	39	-	-	-
	KAWAKAWA . . . . .	2,820	621	-	-	-
	MAIKO . . . . .	9,501	1,773	-	-	-
	YELLOWFIN . . . . .	18,902	4,028	292,682	145,647	-
WAHOO . . . . .	ONO . . . . .	4,325	620	14,207	2,627	-
UNCLASSIFIED . . . . .	SAMOAN . . . . .	393	11	8,035	538	-
CRABS; . . . . .	-	-	-	-	-	82
TOTAL . . . . .	-	82,185	14,384	1,883,396	857,313	155,196
						46,304

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

## HAWAII FISHERIES

## HAWAII - CATCH BY GEAR, 1964 - Continued

SPECIES		CAST NETS		SPEARS		BY HAND	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BARRACUDA, JAPANESE . . .	KAWELEA . . .	9	\$4	-	-	-	-
BONEFISH . . . . .	OIO . . . . .	3	24	-	-	-	-
CREVALLA, JACK . . . . .	ULUA . . . . .	4	2	-	-	-	-
GOATFISHES:							
MILKFISH	KUMU . . . . .	1	1	-	-	-	-
MOUNTAIN BASS . . . . .	WEKE . . . . .	50	24	-	-	-	-
MULLET . . . . .	AWA . . . . .	210	88	-	-	-	-
PARROT FISH . . . . .	AHOLEHOLE . . . . .	165	88	-	-	-	-
Rudderfish . . . . .	AMAMA . . . . .	55	44	-	-	-	-
SQUIRRELFISH . . . . .	UHU . . . . .	24	7	-	-	-	-
SURGEON FISH:	NENUE . . . . .	196	52	-	-	-	-
TANG, CONVICT . . . . .	UU . . . . .	20	13	-	-	-	-
THREEDAFIN . . . . .	KALA . . . . .	14	2	-	-	-	-
UNCLASSIFIED	MAIKO . . . . .	71	32	-	-	-	-
LIMPET . . . . .	MANINI . . . . .	3,714	1,933	-	-	-	-
LOBSTER, SPINY . . . . .	MOI . . . . .	531	242	-	-	-	-
OCTOPUS . . . . .	OPHI . . . . .	116	67	-	-	-	-
SEAWEED . . . . .	ULA . . . . .	-	-	-	-	3,822	\$8,786
TOTAL . . . . .	HEE . . . . .	30	24	4,017	\$2,524	205	141
	LIMU . . . . .	-	-	-	-	12,271	2,956
		5,213	2,625	4,017	2,524	16,298	11,883

SPECIES		NETS, UNCLASSIFIED		OTHER GEAR		VARIOUS GEAR, FISH POND	
ENGLISH	HAWAIIAN	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
BARRACUDA . . . . .	KAKU . . . . .	-	-	-	-	1,485	\$1,240
BARRACUDA, JAPANESE . . . . .	KAWELEA . . . . .	1,203	\$316	-	-	-	-
BIGEYE SCAD . . . . .	AKULE . . . . .	300	178	-	-	-	-
BONEFISH . . . . .	OIO . . . . .	1,490	350	-	-	1,778	814
CREVALLA, JACK . . . . .	ULUA . . . . .	242	124	-	-	648	601
DAMSEL FISH . . . . .	KUPIP . . . . .	245	116	-	-	-	-
EELS, CONGER . . . . .	PUHI . . . . .	-	-	16	\$2	-	-
GOATFISHES:	KUMU . . . . .	683	621	-	-	-	-
MACKEREL, JACK . . . . .	MOANO . . . . .	49	27	-	-	-	-
MILKFISH	MOELUA . . . . .	37	24	-	-	-	-
MOUNTAIN BASS . . . . .	WEKE-ULA . . . . .	19,947	7,119	-	-	1	(1)
MULLET . . . . .	OPELU . . . . .	203	96	-	-	-	-
PARROT FISH . . . . .	WEKE-ULA . . . . .	28	16	-	-	-	-
RED BIGEYE . . . . .	AWEO'CO . . . . .	3,307	1,201	-	-	12,636	7,362
Rudderfish . . . . .	LA'I . . . . .	224	179	-	-	2,916	1,112
RUNNER . . . . .	MAKI AWA . . . . .	368	327	-	-	19,823	18,896
SARDINE . . . . .	UKU . . . . .	411	139	-	-	-	-
SNAPPER, GRAY . . . . .	UU . . . . .	40	18	-	-	-	-
SQUIRRELFISH . . . . .	NENUE . . . . .	1,325	577	-	-	125	41
SURGEON FISH:	KALA . . . . .	3,123	991	-	-	-	-
TANG:	MAIKO . . . . .	101	50	-	-	-	-
CONVICT . . . . .	PALANI . . . . .	624	210	-	-	-	-
ORANGE SPOT . . . . .	PUALU . . . . .	477	105	-	-	42	10
TERPONFENDER . . . . .	MANINI . . . . .	1,056	679	-	-	-	-
THREEDAFIN . . . . .	NAENA'E . . . . .	26	6	-	-	3,251	1,074
UNCLASSIFIED	AAWA'AWA . . . . .	-	-	-	-	32	32
CLAMS, HARD . . . . .	MOI . . . . .	1,235	1,006	-	-	156	73
CRABS:	OLEPE . . . . .	1,579	569	-	-	152	273
LOBSTERS, SPINY . . . . .	KUAHONU . . . . .	-	-	-	-	2,774	2,083
OCTOPUS . . . . .	MOALA . . . . .	-	-	-	-	2,167	866
SHRIMP . . . . .	PAPAI . . . . .	-	-	-	-	1,230	395
TREPANG (SEA CUCUMBER) . . . . .	SAMOAN . . . . .	-	-	-	-	1,350	1,044
TURTLES . . . . .	ULA . . . . .	10	9	-	-	-	-
	HEE . . . . .	51	16	-	-	-	-
	OPAE . . . . .	150	108	-	-	-	-
	HONU . . . . .	205	216	29	28	266	5
TOTAL . . . . .		-	-	1,265	266	52	5
		38,847	16,158	1,310	295	50,618	35,921

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.

# SECTION 11 - PUERTO RICO FISHERIES

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The Puerto Rico catch is not included in the U.S. catch tables in the General Review or Review of Certain Major Fisheries Sections.

In 1964, the catch was 58.5 million pounds valued at \$7.5 million to the fishermen--a gain of 12.2 million pounds and \$1.9 million compared with the previous year. Tuna landings, the largest on record, accounted principally for the increase. The tuna catch of 48.4 million pounds valued at \$5.0 million was 83 percent of the volume and 66 percent of the value of the Puerto Rico landings.

Tuna landed by U.S. fishermen in Puerto Rico were caught only in the Pacific Ocean until 1962. In that year, 9 percent of the tuna catch was taken in the Atlantic Ocean. Subsequently, in 1963 and 1964, significant quantities of tuna (13 and 22 percent, respectively) were caught in the Atlantic.

The catch by local fishermen, consisting chiefly of marine fish, increased from 9.3 million pounds in 1963 to 10.1 million in 1964. Fishermen used various gear--mainly gill nets, haul seines, hooks (hand, troll, and long or set lines), cast nets, fish pots, and weirs.



## PUERTO RICO CATCH, 1953-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	TUNA							
	BLUEFIN		SKIPJACK		YELLOWFIN		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1953.	-	-	{1}	{1}	{1}	{1}	2,704	{1}
1954.	-	-	{1}	{1}	{1}	{1}	6,386	{1}
1955.	-	-	{1}	{1}	{1}	{1}	9,549	{1}
1956.	-	-	{1}	{1}	{1}	{1}	12,000	{1}
1957.	-	-	{1}	{1}	{1}	{1}	18,393	{1}
1958.	-	-	{1}	{1}	{1}	{1}	16,652	{1}
1959.	-	-	{1}	{1}	{1}	{1}	22,090	{1}
1960.	-	-	5,692	{1}	15,218	{1}	20,910	{1}
1961.	-	-	10,392	{1}	20,658	{1}	31,050	{1}
1962.	-	-	20,056	{1}	7,026	{1}	28,790	{1}
1963. 3/	1,676	{1}	30,454	2,966	4,078	500	37,026	3,720
1964.	2,494	254	30,447	2,816	13,622	1,669	48,393	4,961

YEAR	OTHER							
	FRESH-WATER FISH		UNCLASSIFIED FISH		CRUSTACEANS		MOLLUSKS	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1953.	441	{1}	4,409	{1}	441	{1}	{2}	{1}
1954.	441	{1}	4,630	{1}	441	{1}	{2}	{1}
1955.	441	{1}	4,630	{1}	661	{1}	{2}	{1}
1956.	441	{1}	4,850	{1}	661	{1}	{2}	{1}
1957.	441	{1}	4,850	{1}	661	{1}	{2}	{1}
1958.	441	{1}	5,071	{1}	661	{1}	{2}	{1}
1959.	441	{1}	5,291	{1}	661	{1}	{2}	{1}
1960.	441	{1}	5,512	{1}	661	{1}	{2}	{1}
1961.	441	{1}	5,932	{1}	661	{1}	{2}	{1}
1962.	441	{1}	6,614	{1}	661	{1}	{2}	{1}
1963. 3/	441	88	7,496	1,357	1,102	431	{2}	-
1964.	441	97	8,378	1,843	1,102	551	{2}	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# PUERTO RICO FISHERIES

## PUERTO RICO CATCH, 1953-64 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	OTHER - CONTINUED				GRAND TOTAL	
	MISCELLANEOUS SHELLFISH, ETC.		TOTAL			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1953,	{2}	{1}	5,291	{1}	7,995	{1}
1954,	{2}	{1}	5,512	{1}	11,900	{1}
1955,	{2}	{1}	5,732	{1}	15,281	{1}
1956,	{2}	{1}	5,952	{1}	17,932	{1}
1957,	{2}	{1}	5,952	{1}	21,825	{1}
1958,	{2}	{1}	6,173	{1}	22,825	{1}
1959,	{2}	{1}	6,393	{1}	28,483	{1}
1960,	220	{1}	6,834	{1}	27,744	{1}
1961,	220	{1}	7,274	{1}	38,324	{1}
1962,	{2}	{1}	7,716	{1}	36,506	{1}
1963 3/	220	66	9,259	1,942	46,285	5,662
1964,	220	66	10,141	2,557	58,534	7,518

1/ NOT AVAILABLE.

2/ NEGLIGIBLE.

3/ THERE WAS AN ADDITIONAL CATCH OF BLUEFIN (640,000 POUNDS) AND SKIPJACK (596,000 POUNDS) TUNA LANDED AT U. S. ATLANTIC COAST PORTS AND TRANSHIPED TO PUERTO RICO.

NOTE:--DATA ON THE PUERTO RICO CATCH BY LOCAL FISHERMEN ARE FROM THE YEARBOOK OF FISHERY STATISTICS (VARIOUS YEARS), FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. METRIC TONS HAVE BEEN CONVERTED TO POUNDS BY MULTIPLYING BY 2,204.6. DATA ON TUNA LANDINGS IN PUERTO RICO BY U. S. FISHERMEN WERE OBTAINED BY THE BUREAU.



## PUERTO RICO TUNA CATCH ATLANTIC AND PACIFIC OCEANS, 1953-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	BLUEFIN		SKIPJACK		YELLOWFIN		TOTAL		GRAND TOTAL
	ATLANTIC	ATLANTIC	PACIFIC	PACIFIC	PACIFIC	ATLANTIC	ATLANTIC	PACIFIC	
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1953,	-	-	{1}	{1}	-	-	2,704	2,704	
1954,	-	-	{1}	{1}	-	-	6,368	6,368	
1955,	-	-	{1}	{1}	-	-	9,549	9,549	
1956,	-	-	{1}	{1}	-	-	12,000	12,000	
1957,	-	-	{1}	{1}	-	-	16,733	16,733	
1958,	-	-	{1}	{1}	-	-	16,652	16,652	
1959,	-	-	{1}	{1}	-	-	22,090	22,090	
1960,	-	-	5,692	15,218	-	-	20,910	20,910	
1961,	-	-	10,382	20,558	-	-	31,050	31,050	
1962,	1,676	936	19,150	7,028	2,612	2,612	26,178	26,178	
1963 2/	2,494	2,326	28,128	4,078	4,620	32,206	37,026	37,026	
1964,	4,324	6,508	23,939	13,622	10,832	37,561	48,393	48,393	

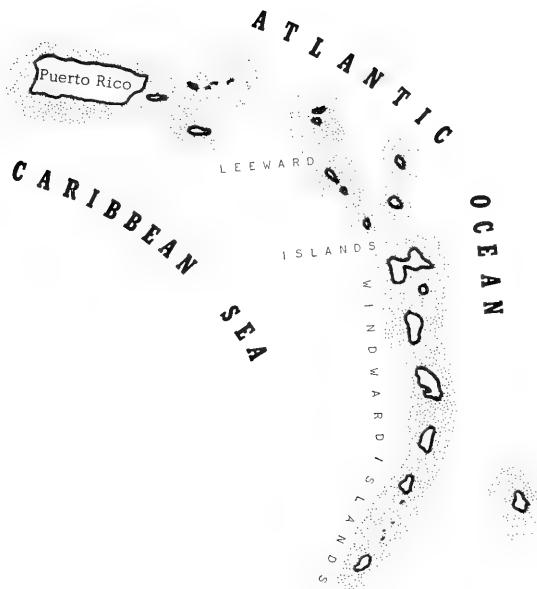
1/ NOT AVAILABLE.

2/ THERE WAS AN ADDITIONAL CATCH OF BLUEFIN (640,000 POUNDS) AND SKIPJACK (596,000 POUNDS) TUNA LANDED AT U. S. ATLANTIC COAST PORTS AND TRANSHIPED TO PUERTO RICO.

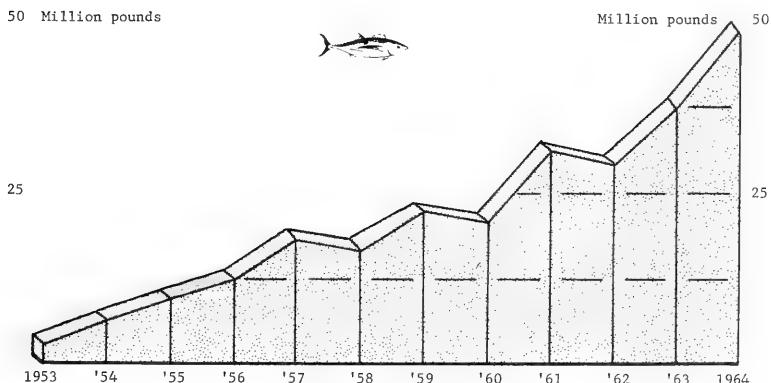
# PUERTO RICO FISHERIES

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## PUERTO RICO



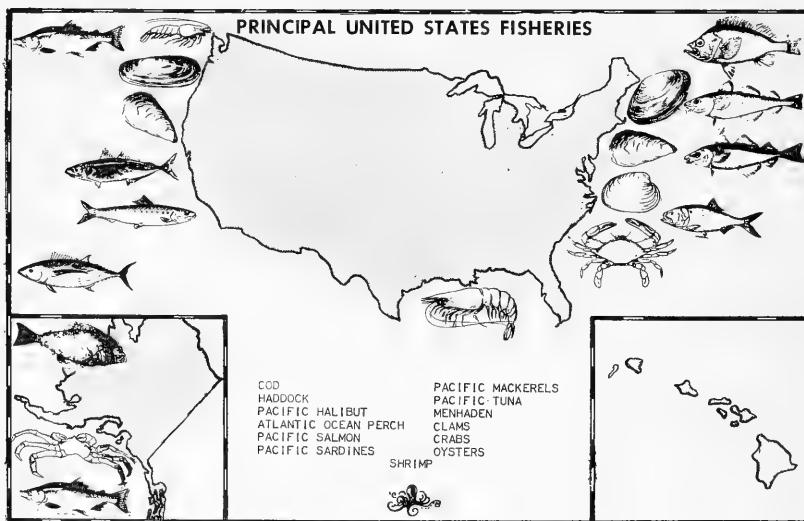
### PUERTO RICO TUNA CATCH, 1953-64



## SECTION 12

# REVIEW OF CERTAIN MAJOR FISHERIES

In this Section of the Digest there are 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 in the menhaden purse seine, salmon purse seine and 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, 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.



### U. S. COD FISHERY

U. S. fishermen landed 45.2 million pounds of cod valued at \$3.0 million--a decline of 3.4 million pounds and \$416,000 compared with 1963.

Otter trawls accounted for 88 percent of the catch; lines, 9 percent; and gill nets, 3 percent. A negligible amount was taken in pound nets, floating traps, and dredges.

Landings at Massachusetts ports (34.8 million pounds) accounted for 77 percent of the total catch. The State of Washington was next with 6.2 million pounds, followed by Maine with 2.4 million. The remaining catch was landed in nine other Atlantic and Pacific Coast States.

# REVIEW OF CERTAIN MAJOR FISHERIES

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## SUMMARY OF COD CATCH, 1964

(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 . . . . .	1,362	63	-	-	-	-
MASSACHUSETTS . . . . .	31,176	2,137	2	(1)	14	1
RHODE ISLAND . . . . .	372	29	-	-	25	2
CONNECTICUT . . . . .	135	11	-	-	-	-
TOTAL . . . . .	33,045	2,240	2	(1)	39	3
MIDDLE ATLANTIC:						
NEW YORK . . . . .	258	36	-	-	-	-
NEW JERSEY . . . . .	14	2	-	-	-	-
TOTAL . . . . .	272	38	-	-	-	-
CHESAPEAKE:						
MARYLAND . . . . .	2	(1)	-	-	-	-
VIRGINIA . . . . .	2	(1)	-	-	-	-
TOTAL . . . . .	4	(1)	-	-	-	-
PACIFIC:						
WASHINGTON . . . . .	6,212	341	-	-	-	-
OREGON . . . . .	201	10	-	-	-	-
TOTAL . . . . .	6,413	351	-	-	-	-
GRAND TOTAL . . . . .	39,734	2,629	2	(1)	39	3
AREA AND STATE	GILL NETS		LINES			
			HAND		TROLL	
NEW ENGLAND:	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
MAINE . . . . .	510	30	232	6	-	-
NEW HAMPSHIRE . . . . .	-	-	40	3	-	-
MASSACHUSETTS . . . . .	627	41	1,645	91	-	-
RHODE ISLAND . . . . .	-	-	46	4	-	-
CONNECTICUT . . . . .	-	-	12	1	-	-
TOTAL . . . . .	1,137	71	1,975	105	-	-
MIDDLE ATLANTIC:						
NEW YORK . . . . .	(1)	(1)	13	2	-	-
NEW JERSEY . . . . .	-	-	1	(1)	-	-
TOTAL . . . . .	(1)	(1)	14	2	-	-
PACIFIC, WASHINGTON . . . . .	(1)	(1)	-	-	1	(1)
GRAND TOTAL . . . . .	1,137	71	1,989	107	1	(1)
AREA AND STATE	LINES - CONTINUED		DREDGES		TOTAL	
	LONG OR SET WITH HOOKS					
NEW ENGLAND:	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
MAINE . . . . .	296	8	-	-	2,400	107
NEW HAMPSHIRE . . . . .	20	1	-	-	60	4
MASSACHUSETTS . . . . .	1,337	113	1	(1)	34,802	2,383
RHODE ISLAND . . . . .	1	(1)	-	-	444	35
CONNECTICUT . . . . .	-	-	-	-	147	12
TOTAL . . . . .	1,654	122	1	(1)	37,853	2,541
MIDDLE ATLANTIC:						
NEW YORK . . . . .	245	34	-	-	516	72
NEW JERSEY . . . . .	268	43	-	-	283	45
DELAWARE . . . . .	53	6	-	-	53	6
TOTAL . . . . .	566	83	-	-	852	123
CHESAPEAKE:						
MARYLAND . . . . .	11	2	-	-	13	2
VIRGINIA . . . . .	26	3	-	-	26	3
TOTAL . . . . .	37	5	-	-	41	5
PACIFIC:						
WASHINGTON . . . . .	-	-	-	-	6,213	341
OREGON . . . . .	-	-	-	-	201	10
TOTAL . . . . .	-	-	-	-	6,414	351
GRAND TOTAL . . . . .	2,257	210	1	(1)	45,160	3,020

1/ LESS THAN 500 POUNDS OR \$500.

# REVIEW OF CERTAIN MAJOR FISHERIES

## ATLANTIC COAST HADDOCK FISHERY

The commercial catch of haddock was 133.5 million pounds valued at \$11.8 million--an increase of 9.5 million pounds and \$140,000 compared with the previous year. The average price paid for haddock decreased from 9.4 cents per pound in 1963 to 8.9 cents in 1964.

Haddock landings at Massachusetts ports (comprising 98 percent of the catch) were 130.4 million pounds--8 percent more than in 1963. The catch by otter trawls was 97 percent of the landings, while the remaining 3 percent was taken by gill nets, lines, and dredges.

About 86 percent of the catch was taken from waters off New England--mainly on Georges South Channel. Waters off Nova Scotia yielded nearly all the remaining 14 percent.



### SUMMARY OF HADDOCK CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	OTTER TRAWLS		GILL NETS		LINES	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:						
MAINE . . . . .	2,676	238	66	7	13	1
MASSACHUSETTS . . . . .	127,100	11,224	273	24	269	22
RHODE ISLAND . . . . .	68	5	-	-	-	-
CONNECTICUT . . . . .	6	(1)	-	-	-	-
TOTAL . . . . .	129,850	11,467	359	31	282	23
MIDDLE ATLANTIC:						
NEW YORK . . . . .	47	6	-	-	-	-
NEW JERSEY . . . . .	1	(1)	-	-	-	-
TOTAL . . . . .	48	6	-	-	-	-
GRAND TOTAL . . . . .	129,898	11,473	359	31	282	23
LINES - CONTINUED						
LONG OR SET WITH HOOKS						
AREA AND STATE	OTTER TRAWLS		DREDGES		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:						
MAINE . . . . .	173	14	-	-	2,948	260
NEW HAMPSHIRE . . . . .	55	6	-	-	55	6
MASSACHUSETTS . . . . .	2,729	298	2	(1)	130,373	11,568
RHODE ISLAND . . . . .	-	-	-	-	68	5
CONNECTICUT . . . . .	-	-	-	-	6	(1)
TOTAL . . . . .	2,957	318	2	(1)	133,450	11,839
MIDDLE ATLANTIC:						
NEW YORK . . . . .	-	-	-	-	47	6
NEW JERSEY . . . . .	-	-	-	-	1	(1)
TOTAL . . . . .	-	-	-	-	48	6
GRAND TOTAL . . . . .	2,957	318	2	(1)	133,498	11,845

1/ LESS THAN \$500.

# REVIEW OF CERTAIN MAJOR FISHERIES

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## PACIFIC COAST HALIBUT FISHERY

Halibut landings by the combined United States and Canadian fleets were 59.9 million pounds (landed weight)--11.5 million pounds less than in 1963 and 15.2 million below the 1962 record. U. S. fishermen captured 26.3 million pounds (44 percent) of the total and received nearly \$6 million for their catch--\$959,000 less than in 1963. The U. S. fleet operating out of Pacific Coast ports numbered 210 vessels, 109 less than in the previous year. Canadian fishermen took 33.6 million pounds, a decline of 3.5 million from 1963.

The catch limit of 34.0 million pounds set by the International Pacific Halibut Commission for Area 3A was unchanged from 1963. The catch limit for Area 2, however, was lowered 25.0 million pounds, and a limit of 4.0 million pounds was set, for the first time, in Area 3B South. There was no catch limit imposed in Area 1 and Area 3B North. In Area 3B North Triangle, however, there was a catch limit of 6.4 million pounds, compared with 11.0 million in 1963.

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 U. S. registry is credited to Alaska.

### SUMMARY OF U. S. HALIBUT FLEET OPERATING UNITS, 1964

ITEM	WASHINGTON AND OREGON FLEET	ALASKA FLEET	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER
REGULAR HALIBUT VESSELS:			
NUMBER . . . . .	92	179	210
GROSS TONNAGE . . . . .	4,375	6,218	7,536
CREW . . . . .	534	794	966
SKATES OF LINES . . . . .	3,906	6,203	7,283
REGULAR HALIBUT BOATS:			
NUMBER . . . . .	-	21	21
CREW . . . . .	-	36	36
SKATES OF LINES . . . . .	-	126	126
BOATS PRIMARILY IN OTHER FISHERIES BUT LANDING SMALL QUANTITIES OF HALIBUT <sup>1</sup> :			
NUMBER . . . . .	-	39	39
CREW . . . . .	-	58	58
SKATES OF LINES . . . . .	-	195	195

<sup>1</sup>/ DOES NOT INCLUDE TROLLERS OR OTHER BOATS CATCHING HALIBUT INCIDENTAL TO OTHER FISHING OPERATIONS.  
NOTE:--U. S. VESSELS LANDING HALIBUT AT PRINCE RUPERT, B. C., HAVE BEEN INCLUDED WITH THOSE LANDING IN ALASKA.

### CATCH BY U. S. HALIBUT FLEET, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	LANDED IN				TOTAL	
	WASHINGTON AND OREGON		BRITISH COLUMBIA	ALASKA		
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
HALIBUT . . . . .	9,238	2,349	562	134	16,549	3,434
SABLEFISH . . . . .	1,646	366	-	-	1,809	269
LINGCOD . . . . .	15	1	-	-	-	-
ROCKFISHES . . . . .	72	3	-	-	8	1
TOTAL . . . . .	10,971	2,719	562	134	18,366	3,724
					29,899	6,577

NOTE:--IN ADDITION THERE WERE APPROXIMATELY 30,000 POUNDS OF "NORTHERN" HALIBUT LANDED IN CALIFORNIA. MOST OF THIS CATCH WAS INCLUDED UNDER "CALIFORNIA HALIBUT" AND "UNCLASSIFIED FLOUNDERS". LANDINGS OF HALIBUT LIVERS AND VISCERA DURING 1964 TOTALLED 115,779 POUNDS VALUED AT \$5,420. 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.

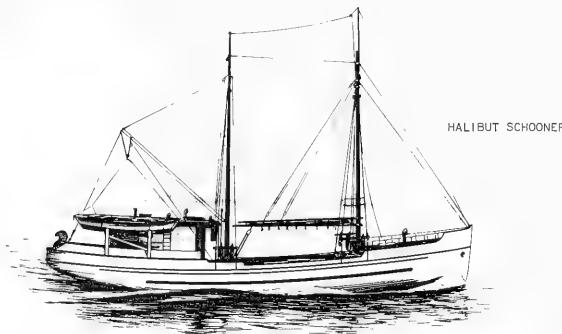
# REVIEW OF CERTAIN MAJOR FISHERIES

## SUMMARY OF UNITED STATES AND CANADIAN HALIBUT CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

FLEET CLASSIFICATION	LANDED IN						TOTAL	
	WASHINGTON AND OREGON		BRITISH COLUMBIA		ALASKA			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
UNITED STATES FLEET 1/ . . .	9,238 2,814	2,349 696	562 25,703	134 6,400	16,549 5,071	3,434 966	26,349 33,588	5,917 6,062
TOTAL . . . . .	12,052	3,045	26,265	6,534	21,620	4,400	59,937	13,979

1/ IN ADDITION THERE WERE APPROXIMATELY 30,000 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.



## ATLANTIC OCEAN PERCH FISHERY, 1964

The catch of Atlantic ocean perch was 89.3 million pounds valued at \$3.8 million--a decline of 19.0 million pounds (18 percent) and \$1.4 million (27 percent) compared with the previous year. The catch, which was the smallest since 1940, was 169.1 million pounds less than the record landings of 1951.

Maine and Massachusetts otter trawlers accounted for almost the entire catch, with only a negligible amount taken by longliners. Maine landings of 59 million pounds valued at \$2.5 million accounted for 66 percent of both volume and value.

Of the total catch, 34.5 million pounds (39 percent) were taken from the Nova Scotia banks. Next was the Gulf of St. Lawrence with 27.2 million pounds (30 percent), followed by the New England coast, 17.3 million (19 percent); and the Grand Bank, 10.3 million (12 percent).

## PACIFIC COAST SALMON FISHERY

The commercial catch of salmon in the Pacific Coast States was 352.2 million pounds valued at \$56.0 million--a gain of 58.1 million pounds (20 percent) and \$6.9 million (14 percent) compared with 1963. Chiefly responsible for the increase were Alaska landings of 311.6 million pounds--88.6 million (40 percent) more than in the previous year. The Alaska catch of pink (162.3 million pounds), red (54.1 million), and chum salmon (62.7 million pounds) was 79 percent of the total Pacific Coast salmon production. The Washington salmon catch of 21.3 million pounds declined 61 percent, but landings in Oregon (9.9 million) and California (9.5 million) increased 19 and 21 percent, respectively, compared with 1963.

Purse seines, the most important gear used in taking salmon, accounted for 198.6 million pounds (56 percent) of the total catch. Gill nets were second with 117.5 million pounds (33 percent). The remainder was taken by lines, floating traps, reef nets, pound nets, haul seines, dip nets, fish wheels, and otter trawls.

SUMMARY OF PACIFIC COAST SALMON  
PURSE SEINE OPERATING UNITS, 1964

ITEM	ALASKA 1/	WASHINGTON	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER
FISHERMEN:			
ON VESSELS . . . . .	5,033	1,459	5,718
ON BOATS AND SHORE . . . . .	926	8	934
TOTAL . . . . .	5,959	1,467	6,652
VESSELS, MOTOR:			
5 - 9 TONS. . . . .	111	3	114
10 - 19 TONS. . . . .	345	16	356
20 - 29 TONS. . . . .	166	39	178
30 - 39 TONS. . . . .	125	62	150
40 - 49 TONS. . . . .	103	66	134
50 - 59 TONS. . . . .	25	21	37
60 - 69 TONS. . . . .	2	3	4
70 - 79 TONS. . . . .	1	1	2
80 - 89 TONS. . . . .	1	1	1
110 - 119 TONS. . . . .	2	-	2
130 - 139 TONS. . . . .	1	-	1
TOTAL VESSELS . . . . .	682	212	979
TOTAL GROSS TONNAGE . . . . .	20,480	7,800	24,062
BOATS, MOTOR. . . . .			
GEAR:			
NUMBER. . . . .	1,750	216	1,921
LENGTH, YARDS . . . . .	1,340	214	1,439
	576,000	114,320	633,920

1/ INCLUDES SOME HAUL SEINES.

NOTE:--PURSE SEINE OPERATING UNITS WERE CONFINED TO ALASKA AND WASHINGTON.

# REVIEW OF CERTAIN MAJOR FISHERIES

## SUMMARY OF PACIFIC COAST SALMON TROLL LINE OPERATING UNITS, 1964

ITEM	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN: ON VESSELS . . . . .	1,016	836	689	1,735	3,685
ON BOATS AND SHORE . . . . .	700	565	380	1,440	2,997
TOTAL . . . . .	1,716	1,401	1,069	3,175	6,682
VESSELS, MOTOR					
5 - 9 TONS . . . . .	164	160	95	118	487
10 - 19 TONS . . . . .	256	306	239	430	1,052
20 - 29 TONS . . . . .	60	81	59	155	292
30 - 39 TONS . . . . .	18	28	15	60	97
40 - 49 TONS . . . . .	7	1	3	9	18
50 - 59 TONS . . . . .	1	1	-	2	4
60 - 69 TONS . . . . .	1	-	-	1	2
70 - 79 TONS . . . . .	-	-	-	2	2
80 - 89 TONS . . . . .	-	-	-	1	1
100 - 109 TONS . . . . .	-	-	-	1	1
130 - 139 TONS . . . . .	-	-	-	1	1
160 - 169 TONS . . . . .	1	2	-	-	1
TOTAL VESSELS . . . . .	508	577	411	780	1,968
TOTAL GROSS TONNAGE . . . . .	7,297	8,472	6,066	13,528	30,186
BOATS, MOTOR . . . . .	700	460	317	941	2,260
GEAR: NUMBER OF LINES . . . . .	4,632	5,900	4,000	10,524	23,456
Hooks . . . . .	29,000	26,050	18,300	42,096	107,442

## SALMON CATCH BY DISTRICT AND GEAR, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

GEAR AND SPECIES	ALASKA			
	SOUTHEASTERN	CENTRAL	WESTERN	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY
PURSE SEINES:				
CHINOOK OR KING . . . . .	151	35	(1)	186
CHUM OR KETA . . . . .	16,439	24,636	988	42,063
PINK . . . . .	65,761	70,163	633	136,577
RED OR SOCKEYE . . . . .	5,224	7,131	56	10,411
SILVER OR COHO . . . . .	4,067	702	1	4,770
TOTAL . . . . .	89,662	102,667	1,678	194,007
FLOATING TRAPS:				
CHUM OR KETA . . . . .	115	-	-	115
PINK . . . . .	1,335	-	-	1,335
RED OR SOCKEYE . . . . .	62	-	-	62
SILVER OR COHO . . . . .	55	-	-	55
TOTAL . . . . .	1,567	-	-	1,567
GILL NETS, ANCHOR, SET OR STAKE:				
CHINOOK OR KING . . . . .	19	91	1,879	1,989
CHUM OR KETA . . . . .	97	2,224	2,375	4,696
PINK . . . . .	157	11,485	595	12,237
RED OR SOCKEYE . . . . .	518	4,082	4,521	9,121
SILVER OR COHO . . . . .	1,629	2,185	246	4,060
TOTAL . . . . .	2,420	20,057	9,616	32,103

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, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

GEAR AND SPECIES	ALASKA - CONTINUED				TOTAL	
	SOUTHEASTERN		CENTRAL			
	QUANTITY	QUANTITY	QUANTITY	QUANTITY		
GILL NETS, DRIFT:						
CHINOOK OR KING . . . . .	123	342	2,624	3,089		
CHUM OR KETA . . . . .	2,658	7,893	5,047	15,788		
PINK . . . . .	3,662	3,866	4,034	11,562		
RED OR SOCKEYE . . . . .	1,690	6,999	25,842	34,531		
SILVER OR COHO . . . . .	1,354	4,565	421	6,340		
TOTAL. . . . .	9,687	23,655	37,968	71,310		
LINES, TROLL:						
CHINOOK OR KING . . . . .	6,279	-	-	6,279		
CHUM OR KETA . . . . .	28	-	-	28		
PINK . . . . .	569	-	-	569		
RED OR SOCKEYE . . . . .	7	-	-	7		
SILVER OR COHO . . . . .	5,729	-	-	5,729		
TOTAL. . . . .	12,612	-	-	12,612		
WHEELS, CHINOOK OR KING,	-	-	24	24		
TOTAL. . . . .	-	-	24	24		
GRAND TOTAL. . . . .	115,948	146,389	49,286	311,623		
GEAR AND SPECIES	WASHINGTON					
	PUGET SOUND		WASHINGTON COAST	COLUMBIA RIVER		
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	
HAUL SEINES:						
CHINOOK OR KING . . . . .	66	22	-	-	66	22
CHUM OR KETA . . . . .	20	3	-	-	20	3
SILVER OR COHO . . . . .	51	14	-	-	51	14
TOTAL. . . . .	137	39	-	-	137	39
PURSE SEINES:						
CHINOOK OR KING . . . . .	479	163	-	-	479	163
CHUM OR KETA . . . . .	1,188	224	-	-	1,188	224
PINK . . . . .	1	(1)	-	-	1	(1)
RED OR SOCKEYE . . . . .	1,638	608	-	-	1,638	608
SILVER OR COHO . . . . .	1,333	373	-	-	1,333	373
TOTAL. . . . .	4,639	1,368	-	-	4,639	1,368
POUND NETS:						
CHINOOK OR KING . . . . .	70	25	-	-	70	25
CHUM OR KETA . . . . .	3	(1)	-	-	3	(1)
RED OR SOCKEYE . . . . .	4	2	-	-	4	2
SILVER OR COHO . . . . .	79	22	-	-	79	22
TOTAL. . . . .	156	49	-	-	156	49
GILL NETS:						
CHINOOK OR KING . . . . .	898	319	681	1,221	378	2,800
CHUM OR KETA . . . . .	1,463	266	451	45	9	1,923
PINK . . . . .	1	1	-	-	1	1
RED OR SOCKEYE . . . . .	1,073	397	92	49	19	1,184
SILVER OR COHO . . . . .	1,939	533	912	225	364	3,235
TOTAL. . . . .	5,374	1,516	2,136	499	1,633	4,877
LINES:						
CHINOOK OR KING . . . . .	804	378	1,057	488	209	2,070
CHUM OR KETA . . . . .	1	(1)	(1)	(1)	(1)	(1)
PINK . . . . .	41	7	2	{1}	-	43
RED OR SOCKEYE . . . . .	3	1	{1}	{1}	-	3
SILVER OR COHO . . . . .	1,765	558	1,714	528	1,112	4,591
TOTAL. . . . .	2,614	944	2,773	1,016	1,321	6,708
DIP NETS:						
CHINOOK OR KING . . . . .	-	-	-	-	94	94
SILVER OR COHO . . . . .	-	-	-	-	5	5
TOTAL. . . . .	-	-	-	-	99	99
REEF NETS:						
CHINOOK OR KING . . . . .	37	13	-	-	-	37
CHUM OR KETA . . . . .	3	1	-	-	-	3
PINK . . . . .	(1)	(1)	-	-	-	(1)
RED OR SOCKEYE . . . . .	265	98	-	-	-	265
SILVER OR COHO . . . . .	88	25	-	-	-	88
TOTAL. . . . .	393	137	-	-	-	393
GRAND TOTAL. . . . .	13,313	4,053	4,909	1,515	3,053	963
						21,275
						6,531

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# REVIEW OF CERTAIN MAJOR FISHERIES

## SALMON CATCH BY DISTRICT AND GEAR, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

GEAR AND SPECIES	OREGON					
	COLUMBIA RIVER		OREGON COAST		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
GILL NETS:						
CHINOOK OR KING . . . . .	3,266	1,051	-	-	3,266	1,051
CHUM OR KETA . . . . .	14	1	-	-	14	1
PINK . . . . .	(1)	(1)	-	-	(1)	(1)
RED OR SOCKEYE . . . . .	50	18	-	-	50	18
SILVER OR COHO . . . . .	1,983	364	-	-	1,983	364
TOTAL. . . . .	4,913	1,434	-	-	4,913	1,434
LINES:						
CHINOOK OR KING . . . . .	119	56	602	269	721	325
SILVER OR COHO . . . . .	613	194	3,620	1,102	4,233	1,296
TOTAL. . . . .	732	250	4,222	1,371	4,954	1,621
GRAND TOTAL. . . . .	5,645	1,684	4,222	1,371	9,867	3,055
GEAR AND SPECIES	CALIFORNIA					
	NORTHERN		SAN FRANCISCO		MONTEREY	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
OTTER TRAWLS, CHINOOK OR KING . . . . .	2	1	-	-	-	-
LINES:						
CHINOOK OR KING . . . . .	4,023	2,170	3,106	1,898	309	190
SILVER OR COHO . . . . .	1,398	489	402	149	69	26
TOTAL. . . . .	5,421	2,659	3,508	2,047	378	216
GRAND TOTAL. . . . .	5,423	2,660	3,508	2,047	378	216
GEAR AND SPECIES	CALIFORNIA - CONTINUED					
	SANTA BARBARA			TOTAL		
	QUANTITY	VALUE		QUANTITY	VALUE	
OTTER TRAWLS, CHINOOK OR KING . . . . .	1	1		3	2	
LINES:						
CHINOOK OR KING . . . . .	121	72	7,559	4,330		
SILVER OR COHO . . . . .	50	17	1,919	681		
TOTAL. . . . .	171	89	9,478	5,011		
GRAND TOTAL. . . . .	172	90	9,461	5,013		

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, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	ALASKA					
	SOUTHEASTERN		CENTRAL		WESTERN	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CHINOOK OR KING . . . . .	6,572	2,751	468	115	4,527	796
CHUM OR KETA . . . . .	19,537	1,567	34,743	2,507	8,410	620
PINK . . . . .	71,504	7,735	85,514	8,893	5,262	556
RED OR SOCKEYE . . . . .	5,501	1,557	16,212	4,329	30,419	162,280
SILVER OR COHO . . . . .	12,834	2,376	7,452	1,124	6,361	54,132
TOTAL. . . . .	115,948	15,986	146,369	16,958	49,266	20,954
					6,415	311,623
						41,359

(CONTINUED ON NEXT PAGE)

# REVIEW OF CERTAIN MAJOR FISHERIES

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## SUMMARY OF SALMON CATCH BY DISTRICTS, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	WASHINGTON						TOTAL	
	PUGET SOUND		WASHINGTON COAST		COLUMBIA RIVER			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE		
CHINOOK OR KING . . . . .	2,354	920	1,736	668	1,524	497	5,616	
CHUM OR KETA . . . . .	2,676	494	451	45	9	1	3,138	
PINK . . . . .	43	6	2	(1)	-	-	45	
RED OR SOCKEYE . . . . .	2,943	1,106	92	49	19	7	3,094	
SILVER OR COHO . . . . .	5,255	1,525	2,626	753	1,501	458	9,382	
TOTAL . . . . .	13,313	4,053	4,909	1,515	3,053	963	21,275	
							6,531	
SPECIES	OREGON						TOTAL	
	COLUMBIA RIVER		OREGON COAST		COLUMBIA RIVER			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE		
CHINOOK OR KING . . . . .	3,385	1,107	602	269	3,987	1,376		
CHUM OR KETA . . . . .	14	1	-	-	14	1		
PINK . . . . .	(1)	(1)	-	-	(1)	(1)		
RED OR SOCKEYE . . . . .	50	18	-	-	50	18		
SILVER OR COHO . . . . .	2,196	556	3,620	1,102	5,816	1,660		
TOTAL . . . . .	5,645	1,684	4,222	1,371	9,867	3,055		
SPECIES	CALIFORNIA						MONTEREY	
	NORTHERN		SAN FRANCISCO		MONTEREY			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE		
CHINOOK OR KING . . . . .	4,025	2,171	3,106	1,898	309	190		
SILVER OR COHO . . . . .	1,398	489	402	149	69	26		
TOTAL . . . . .	5,423	2,660	3,508	2,047	378	216		
SPECIES	CALIFORNIA - CONTINUED						TOTAL	
	SANTA BARBARA		TOTAL		TOTAL			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE		
CHINOOK OR KING . . . . .	122	73	7,562	4,332				
SILVER OR COHO . . . . .	50	17	1,919	681				
TOTAL . . . . .	172	90	9,481	5,013				

1/ LESS THAN 500 POUNDS OR \$500.

## SUMMARY OF SALMON CATCH BY GEAR, 1964

(THOUSANDS OF POUNDS)

STATE AND DISTRICT	HAUL SEINES	PURSE SEINES	OTTER TRAWLS	POUND NETS	FLOATING TRAPS	GILL NETS
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
ALASKA:						
SOUTHEASTERN . . . . .	-	89,662	-	-	1,567	12,107
CENTRAL . . . . .	-	102,667	-	-	-	43,722
WESTERN . . . . .	-	1,678	-	-	-	47,584
TOTAL . . . . .	-	194,007	-	-	1,567	103,413
WASHINGTON:						
PUGET SOUND . . . . .	137	4,639	-	156	-	5,374
WASHINGTON COAST . . . . .	-	-	-	-	-	21,136
COLUMBIA RIVER . . . . .	-	-	-	-	-	1,633
TOTAL . . . . .	137	4,639	-	156	-	9,143
OREGON, COLUMBIA RIVER, TOTAL . . . . .	-	-	-	-	-	4,913
CALIFORNIA:						
NORTHERN . . . . .	-	-	2	-	-	-
SANTA BARBARA . . . . .	-	-	1	-	-	-
TOTAL . . . . .	-	-	3	-	-	-
GRAND TOTAL . . . . .	137	196,646	3	156	1,567	117,469

(CONTINUED ON NEXT PAGE)

# REVIEW OF CERTAIN MAJOR FISHERIES

## SUMMARY OF SALMON CATCH BY GEAR, 1964 - Continued

(THOUSANDS OF POUNDS)

STATE AND DISTRICT	LINES	DIP	REEF	FISH	TOTAL
		NETS	NETS	WHEELS	
ALASKA:		QUANTITY	QUANTITY	QUANTITY	QUANTITY
SOUTHEASTERN . . . . .		12,612	-	-	115,948
CENTRAL . . . . .		-	-	-	146,389
WESTERN. . . . .		-	-	24	49,286
TOTAL. . . . .		12,612	-	24	311,623
WASHINGTON:					
PUGET SOUND. . . . .		2,614	-	393	13,313
WASHINGTON COAST . . . . .		2,773	99	-	4,909
COLUMBIA RIVER . . . . .		1,321	-	-	3,053
TOTAL. . . . .		6,708	99	393	21,275
OREGON:					
COLUMBIA RIVER . . . . .		732	-	-	5,645
OREGON COAST . . . . .		4,222	-	-	4,222
TOTAL. . . . .		4,954	-	-	9,867
CALIFORNIA:					
NORTHERN . . . . .		5,421	-	-	5,423
SAN FRANCISCO. . . . .		3,508	-	-	3,508
MONTEREY . . . . .		378	-	-	378
SANTA BARBARA. . . . .		171	-	-	172
TOTAL. . . . .		9,478	-	-	9,481
GRAND TOTAL. . . . .		33,752	99	393	352,246

## SUMMARY OF SALMON CATCH BY SPECIES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	QUANTITY	VALUE
CHINOOK OR KING . . . . .	26,732	11,455
CHUM OR KETA. . . . .	65,842	5,235
PINK. . . . .	162,325	17,162
RED OR SOCKEYE. . . . .	57,276	13,427
SILVER OR COHO. . . . .	38,071	8,659
TOTAL. . . . .	352,246	55,958



# REVIEW OF CERTAIN MAJOR FISHERIES

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## MACKEREL FISHERIES OF THE PACIFIC COAST, 1964

Landings of jack mackerel, 90.0 million pounds, and Pacific mackerel, 26.8 million, declined 5.9 million pounds (6 percent) and 13.4 million (33 percent) respectively compared with 1963. The combined mackerel catch (116.8 million pounds, valued at \$2.9 million) was 14 percent less than in the previous year; while the value declined 3 percent. As in former years, most of the catch of jack mackerel (83 percent) and Pacific mackerel (97 percent) was landed in the San Pedro district of California. Purse seines and lampara nets were the principal gear used in this fishery.

### SUMMARY OF JACK MACKEREL CATCH, 1964

(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:						
NORTHERN . . . . .	-	-	1	(2)	-	-
SAN FRANCISCO . . . . .	-	-	2	(2)	-	-
MONTEREY . . . . .	2,580	65	(2)	(2)	-	-
SANTA BARBARA . . . . .	12,179	239	-	-	-	-
SAN PEDRO . . . . .	74,927	1,804	-	-	(2)	(2)
TOTAL . . . . .	89,686	2,109	3	(2)	(2)	(2)
HAWAII . . . . .	-	-	-	-	148	63
GRAND TOTAL . . . . .	89,686	2,109	3	(2)	148	63

STATE AND DISTRICT	DIP, BRAIL OR SCOOP NETS 1/		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE
CALIFORNIA:				
NORTHERN . . . . .	-	-	1	(2)
SAN FRANCISCO . . . . .	-	-	2	(2)
MONTEREY . . . . .	4	(2)	2,584	65
SANTA BARBARA . . . . .	-	-	12,179	239
SAN PEDRO . . . . .	-	-	74,927	1,804
TOTAL . . . . .	4	(2)	89,693	2,109
HAWAII . . . . .	144	41	292	104
GRAND TOTAL . . . . .	148	41	89,985	2,213

1/ INCLUDES THE CATCH BY BAG, LIFT, CAST, AND UNCLASSIFIED NETS IN HAWAII.

2/ LESS THAN 500 POUNDS OR \$500.

### SUMMARY OF PACIFIC MACKEREL CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

STATE AND DISTRICT	PURSE SEINES AND LAMPARA NETS		GILL AND TRAMMEL NETS		LINES	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CALIFORNIA:						
MONTEREY . . . . .	3	(1)	-	-	(1)	(1)
SANTA BARBARA . . . . .	846	18	-	-	-	-
SAN PEDRO . . . . .	25,449	627	3	{1}	1	{1}
SAN DIEGO . . . . .	1	(1)	(1)	(1)	1	{1}
TOTAL . . . . .	26,301	645	3	(1)	2	(1)

STATE AND DISTRICT	DIP, BRAIL OR SCOOP NETS		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE
CALIFORNIA:				
MONTEREY . . . . .	-	-	3	(1)
SANTA BARBARA . . . . .	-	-	846	18
SAN PEDRO . . . . .	521	21	25,974	648
SAN DIEGO . . . . .	1	(1)	3	(1)
TOTAL . . . . .	522	21	26,928	666

1/ LESS THAN 500 POUNDS OR \$500.

# REVIEW OF CERTAIN MAJOR FISHERIES

## ATLANTIC TUNA FISHERY, 1964

There were 11 purse seine vessels and 10 motor boats operated in the Atlantic tuna fishery by 122 fishermen landing in the New England, Middle Atlantic, and Chesapeake States. Purse seiners captured 5.8 million pounds of bluefin and 2.3 million pounds of skipjack. In 1963, there were 9.5 million pounds of bluefin and 4.3 million pounds of skipjack tuna landed by purse seine vessels. In both years, a small amount of yellowfin tuna was taken.

## ATLANTIC COAST TUNA PURSE SEINE OPERATING UNITS, 1964

ITEM	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	TOTAL, EXCLUDING DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS . . .	89	62	58	122
VESSELS, MOTOR:				
60 - 69 TONS . . . . .	1	-	-	1
70 - 79 TONS . . . . .	1	1	-	1
110 - 119 TONS . . . . .	2	2	-	2
140 - 149 TONS . . . . .	1	1	1	1
150 - 159 TONS . . . . .	1	1	1	1
360 - 389 TONS . . . . .	-	1	1	1
470 - 479 TONS . . . . .	2	-	-	2
480 - 489 TONS . . . . .	-	-	1	1
680 - 689 TONS . . . . .	-	-	1	1
TOTAL VESSELS . . . . .	8	6	5	11
TOTAL GROSS TONNAGE . . . . .	1,626	995	1,847	3,177
BOATS, MOTOR . . . . .	6	6	5	10
GEAR:				
NUMBER . . . . .	8	6	5	11
LENGTH, YARDS . . . . .	5,800	4,540	4,480	8,830



TUNA, BLUEFIN

# REVIEW OF CERTAIN MAJOR FISHERIES

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## PACIFIC TUNA FISHERY, 1964

The domestic catch of tuna landed at Pacific Coast and Hawaii ports was 296.7 million pounds valued at \$38.7 million--a decline of 10.1 million pounds (3 percent) and \$537,000 (1 percent) compared with the previous year. Yellowfin landings of 149.5 million pounds were 39.5 million more than in 1963, but this gain was offset by reduced catches of albacore, bluefin, and skipjack tuna. Albacore landings of 48.1 million pounds were 12.7 million less than in 1963, while landings of bluefin (24.0 million) and skipjack tuna (75.1 million) were down 7.3 and 29.6 million pounds respectively.

The largest U. S. vessel built for fishing, the City of Tacoma, a 167-foot tuna seiner with a carrying capacity of 800 tons, entered the Eastern Pacific tuna fishery in 1964. This vessel is the third of a new class of steel tuna vessels designed exclusively for seining tuna. Its capacity is about 50 tons greater than for the other seiners Hornet and Caribbean, built in 1963.

## SUMMARY OF PACIFIC COAST TUNA OPERATING UNITS, 1964

ITEM	PURSE SEINES	LINES, HAND			TOTAL, EXCLUSIVE OF DUPLI- CATION
		ALBACORE BAIT BOATS	YELLOW FIN 1/	ALBACORE TROLLERS	
FISHERMEN:					
ON VESSELS. . . . .	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
1,256	713	285	1,884	3,712	
ON BOATS AND SHORE. . . . .		95	12	202	302
TOTAL. . . . .	1,256	808	297	2,086	4,014
VESSELS, MOTOR:					
5 - 9 TONS. . . . .	-	2	-	40	.41
10 - 19 TONS. . . . .	-	72	1	325	372
20 - 29 TONS. . . . .	-	48	2	216	240
30 - 39 TONS. . . . .	-	32	5	120	144
40 - 49 TONS. . . . .	-	13	6	49	59
50 - 59 TONS. . . . .	-	5	4	22	26
60 - 69 TONS. . . . .	-	5	2	7	12
70 - 79 TONS. . . . .	-	3	1	7	8
80 - 89 TONS. . . . .	1	2	1	2	5
90 - 99 TONS. . . . .	1	2	1	-	3
100 - 109 TONS. . . . .	-	2	1	2	3
110 - 119 TONS. . . . .	-	1	-	-	-
120 - 129 TONS. . . . .	3	-	-	-	3
130 - 139 TONS. . . . .	3	-	-	2	5
140 - 149 TONS. . . . .	1	-	-	1	2
150 - 159 TONS. . . . .	2	-	-	-	2
160 - 169 TONS. . . . .	2	2	3	-	5
170 - 179 TONS. . . . .	1	-	-	-	1
180 - 189 TONS. . . . .	3	1	1	-	4
190 - 199 TONS. . . . .	5	5	7	-	12
210 - 219 TONS. . . . .	2	-	-	-	2
230 - 239 TONS. . . . .	2	-	-	-	2
250 - 259 TONS. . . . .	-	-	-	-	2
260 - 269 TONS. . . . .	3	-	-	-	3
270 - 279 TONS. . . . .	4	-	1	-	5
280 - 289 TONS. . . . .	1	-	-	-	1
290 - 299 TONS. . . . .	2	-	-	-	2
300 - 309 TONS. . . . .	2	-	-	-	2
310 - 319 TONS. . . . .	4	-	-	-	4
320 - 329 TONS. . . . .	2	-	-	-	2
330 - 339 TONS. . . . .	2	-	-	-	2
340 - 349 TONS. . . . .	3	-	-	-	3
350 - 359 TONS. . . . .	6	-	-	-	6
360 - 369 TONS. . . . .	4	-	1	-	5
370 - 379 TONS. . . . .	2	-	-	-	5
380 - 389 TONS. . . . .	3	-	-	-	3
390 - 399 TONS. . . . .	2	-	-	-	2

SEE FOOTNOTE AT END OF TABLE.

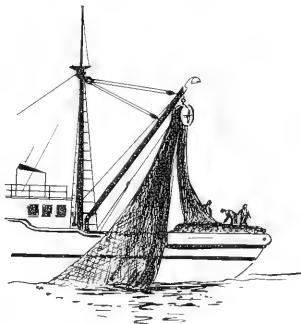
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# REVIEW OF CERTAIN MAJOR FISHERIES

## SUMMARY OF PACIFIC COAST TUNA OPERATING UNITS, 1964 - Continued

ITEM	PURSE SEINES	LINES, HAND			TOTAL, EXCLUSIVE OF DUPLI- CATION
		ALBACORE BAIT BOATS	YELLOW FIN <sup>1/</sup>	ALBACORE TROLLERS	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
400 - 409 TONS . . . . .	1	-	-	-	1
410 - 419 TONS . . . . .	3	-	-	-	3
420 - 429 TONS . . . . .	2	-	-	-	2
430 - 439 TONS . . . . .	3	-	1	-	4
440 - 449 TONS . . . . .	3	-	-	-	3
450 - 459 TONS . . . . .	2	-	-	-	2
460 - 469 TONS . . . . .	2	-	-	-	2
470 - 479 TONS . . . . .	12	-	-	-	12
480 - 489 TONS . . . . .	2	-	-	-	2
490 - 499 TONS . . . . .	1	-	-	-	1
520 - 529 TONS . . . . .	1	-	-	-	1
580 - 589 TONS . . . . .	1	-	-	-	1
630 - 639 TONS . . . . .	1	-	-	-	1
720 - 729 TONS . . . . .	1	-	-	-	1
800 - 809 TONS . . . . .	1	-	-	-	1
810 - 819 TONS . . . . .	1	-	-	-	1
TOTAL VESSELS . . . . .	105	195	38	601	1,033
TOTAL GROSS TONNAGE . . . . .	36,342	6,902	4,332	19,586	62,513
BOATS, MOTOR, GEAR, LENGTH, YARDS . . . . .	208	75	40	169	489
HOOKS . . . . .	80,560	763	264	10,236	-

<sup>1/</sup> VESSELS OF 50 TONS OR MORE CAPACITY ARE CONSIDERED CLIPPER CRAFT.



Purse seine power block

# REVIEW OF CERTAIN MAJOR FISHERIES

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## SUMMARY OF PACIFIC TUNA CATCH, 1964

(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 . . . . .	-	-	839	137	839	137
COASTAL . . . . .	-	-	116	18	116	18
COLUMBIA RIVER . . . . .	-	-	100	15	100	15
TOTAL. . . . .	-	-	1,055	170	1,055	170
OREGON: COLUMBIA RIVER . . . . .	-	-	3,408	554	3,408	554
COASTAL . . . . .	-	-	1,047	162	1,047	162
TOTAL. . . . .	-	-	4,455	716	4,455	716
CALIFORNIA: NORTHERN . . . . .	-	-	4,750	653	4,750	653
SAN FRANCISCO . . . . .	-	-	1,337	184	1,337	184
MONTEREY . . . . .	-	-	2,272	313	2,272	313
SANTA BARBARA . . . . .	-	-	3,692	538	3,692	538
SAN PEDRO. . . . .	336	54	19,854	3,206	20,190	3,262
SAN DIEGO. . . . .	52	8	10,058	1,622	10,110	1,630
TOTAL. . . . .	368	62	42,163	6,518	42,551	6,580
HAWAII. . . . .	-	-	9	3	9	3
GRAND TOTAL, ALBACORE	368	62	47,682	7,407	48,070	7,469
BLUEFIN; CALIFORNIA: SAN PEDRO. . . . .	20,441	2,487	31	4	20,472	2,491
SAN DIEGO. . . . .	2,656	331	43	5	2,699	336
TOTAL. . . . .	23,097	2,818	74	9	23,171	2,827
HAWAII 1/. . . . .	-	-	839	494	839	494
GRAND TOTAL, BLUEFIN	23,097	2,818	913	503	24,010	3,321
LITTLE, HAWAII. . . . .	-	-	35	6	35	6
SKIPJACK; CALIFORNIA: SAN FRANCISCO. . . . .	1,187	127	(2)	(2)	1,187	127
MONTEREY . . . . .	-	-	6,179	614	(2)	(2)
SAN PEDRO. . . . .	46,031	4,574	1,911	199	52,210	5,188
SAN DIEGO. . . . .	10,751	1,110	-	-	12,662	1,309
TOTAL. . . . .	57,969	5,811	8,090	813	66,059	6,624
HAWAII. . . . .	-	-	9,024	1,222	9,024	1,222
GRAND TOTAL, SKIPJACK	57,969	5,811	17,114	2,035	75,083	7,846
YELLOWFIN; CALIFORNIA: SAN FRANCISCO. . . . .	1,512	232	-	-	1,512	232
SAN PEDRO. . . . .	112,194	14,944	7,600	1,012	119,794	15,956
SAN DIEGO. . . . .	25,410	3,480	1,304	181	27,714	3,661
TOTAL. . . . .	140,116	18,656	8,904	1,193	149,020	19,849
HAWAII. . . . .	-	-	500	185	500	185
GRAND TOTAL, YELLOWFIN	140,116	18,656	9,404	1,378	149,520	20,034
GRAND TOTAL, ALL SPECIES . . . . .	221,570	27,347	75,148	11,329	296,718	38,676

1/ INCLUDES THE CATCH OF BIGEYE TUNA.

2/ LESS THAN 500 POUNDS OR \$500.

# REVIEW OF CERTAIN MAJOR FISHERIES

## U. S. MENHADEN FISHERY

Menhaden landings of 1.6 billion pounds were 246 million pounds less than in 1963, and 778 million below the 1962 record. Menhaden comprised 35 percent of the U. S. production of all species.

Of the total, 58 percent was landed in the Gulf of Mexico; 21, in the Chesapeake States; 12, in the South Atlantic States; and 9 percent in the Middle Atlantic States. Less than 1/2 of 1 percent was taken in the New England States.

Purse seines accounted for 97 percent of the catch. The remainder was taken by pound nets, haul seines, gill nets, fyke and hoop nets, trammel nets, and otter trawls.

There were 3,196 fishermen, 183 vessels, 366 motor boats, and 39 other boats employed in the menhaden purse seine fishery.



## SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1964

GROSS TONNAGE	MIDDLE ATLANTIC				CHESAPEAKE		
	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EX- CLUSIVELY OF DUPLICATION	MARYLAND	VIRGINIA	TOTAL, EX- CLUSIVELY OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
100 - 109 . . .	1	-	-	1	-	-	-
110 - 119 . . .	-	1	-	1	-	-	-
120 - 129 . . .	-	-	-	-	1	2	2
140 - 149 . . .	-	2	-	2	1	4	4
150 - 159 . . .	-	1	-	1	-	2	2
160 - 169 . . .	-	-	1	1	-	1	1
170 - 179 . . .	-	4	1	5	-	-	-
180 - 189 . . .	1	2	1	4	-	3	3
190 - 199 . . .	1	13	15	26	-	11	11
220 - 229 . . .	4	-	-	4	-	1	1
230 - 239 . . .	1	1	-	2	-	1	1
240 - 249 . . .	-	-	-	-	-	2	2
250 - 259 . . .	-	-	-	-	-	3	3
260 - 269 . . .	-	-	-	-	-	5	5
280 - 289 . . .	-	2	-	2	-	1	1
290 - 299 . . .	1	-	-	1	-	1	1
300 - 309 . . .	2	-	-	2	-	-	-
310 - 319 . . .	1	-	1	2	-	-	-
320 - 329 . . .	-	-	-	-	-	1	1
370 - 379 . . .	-	-	-	-	-	1	1
530 - 539 . . .	-	1	-	1	-	1	1
540 - 549 . . .	-	-	-	-	-	1	1
TOTAL VESSELS . .	12	27	19	57	2	41	41
TOTAL GROSS TONNAGE . .	2,845	5,526	3,816	11,990	263	9,400	9,400

(CONTINUED ON NEXT PAGE)

# REVIEW OF CERTAIN MAJOR FISHERIES

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## SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1964 - Continued

GROSS TONNAGE	SOUTH ATLANTIC			GULF			GRAND TOTAL EXCLU- SIVE OF DUPLI- CATION
	NORTH CAROLINA	FLORIDA, EAST COAST	TOTAL, EXCLU- SIVE OF DUPLI- CATION	MISSIS- SIPPI	LOUJ- SIANA	TEXAS	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
40 - 49 . . .	2	-	2	-	-	-	2
50 - 59 . . .	2	-	2	-	-	-	2
60 - 69 . . .	2	-	2	-	-	-	2
70 - 79 . . .	1	-	1	-	-	-	1
90 - 99 . . .	-	-	-	-	1	-	1
100 - 109 . . .	-	-	-	-	1	-	1
110 - 119 . . .	-	1	1	-	1	-	3
120 - 129 . . .	-	1	1	-	1	-	4
130 - 139 . . .	-	-	-	-	-	1	1
140 - 149 . . .	1	1	2	-	4	1	12
150 - 159 . . .	-	-	-	-	-	-	3
160 - 169 . . .	-	-	-	-	3	2	5
170 - 179 . . .	1	-	1	1	4	-	11
180 - 189 . . .	2	-	2	2	1	4	7
190 - 199 . . .	17	-	17	7	6	-	45
210 - 219 . . .	-	-	-	-	3	-	3
220 - 229 . . .	3	-	3	2	3	-	5
230 - 239 . . .	2	-	2	1	3	-	6
240 - 249 . . .	4	-	4	-	1	-	6
250 - 259 . . .	7	-	7	-	3	-	10
260 - 269 . . .	4	-	4	2	2	-	3
280 - 289 . . .	2	-	2	-	-	-	10
290 - 299 . . .	2	-	2	1	-	-	3
300 - 309 . . .	2	-	2	-	-	-	2
310 - 319 . . .	1	-	1	-	3	-	4
320 - 329 . . .	1	-	1	-	1	-	1
370 - 379 . . .	1	-	1	-	-	-	1
410 - 419 . . .	-	-	-	-	1	-	1
450 - 459 . . .	1	-	1	-	-	-	1
460 - 469 . . .	-	-	-	-	1	-	1
470 - 479 . . .	-	-	-	3	2	-	5
480 - 489 . . .	-	-	-	-	2	-	2
530 - 539 . . .	1	-	1	-	-	-	1
540 - 549 . . .	1	-	1	-	-	-	1
600 - 609 . . .	-	-	-	1	1	-	1
610 - 619 . . .	-	-	-	1	1	-	1
640 - 649 . . .	-	-	-	-	1	-	1
TOTAL VESSELS. . .	60	3	63	21	50	8	76
TOTAL GROSS TONNAGE. . .	13,694	363	14,077	6,048	13,044	1,329	18,939
							41,094



# REVIEW OF CERTAIN MAJOR FISHERIES

## SUMMARY OF MENHADEN PURSE SEINE OPERATING UNITS, 1964

AREA AND STATE	VESSELS		BOATS		FISHER-MEN	PURSE SEINES	
			MOTOR	OTHER			
MIDDLE ATLANTIC:			NUMBER	GROSS TONNAGE	NUMBER	NUMBER	NUMBER LENGTH IN YARDS
NEW YORK . . . . .	12	2,645	23	-	195	12	5,060
NEW JERSEY . . . . .	27	5,528	54	-	459	27	10,540
DELAWARE . . . . .	19	3,616	38	-	323	19	7,600
TOTAL, EXCLUSIVE OF DUPLICATION .	57	11,990	113	-	960	57	22,800
CHESAPEAKE:							
MARYLAND . . . . .	2	263	3	-	31	2	750
VIRGINIA . . . . .	41	9,400	66	-	677	41	15,513
TOTAL, EXCLUSIVE OF DUPLICATION .	41	9,400	66	-	677	41	15,513
SOUTH ATLANTIC:							
NORTH CAROLINA . . .	60	13,694	118	-	1,014	60	24,120
FLORIDA, EAST COAST .	3	363	6	-	63	3	1,200
TOTAL, EXCLUSIVE OF DUPLICATION .	63	14,077	124	59	1,077	63	25,320
GULF:							
MISSISSIPPI . . . . .	21	6,048	42	-	372	21	10,590
LOUISIANA . . . . .	50	13,044	100	-	900	50	21,730
TEXAS . . . . .	8	1,329	16	-	162	8	4,000
TOTAL, EXCLUSIVE OF DUPLICATION .	76	18,939	152	8	1,382	76	35,120
GRAND TOTAL, EXCLUSIVE OF DUPLICATION .	183	41,094	366	39	3,196	186	77,385

## SUMMARY OF MENHADEN CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	HAUL SEINES		PURSE SEINES		OTTER TRAWLS	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND, CONNECTICUT . . . . .	-	-	-	-	(1)	(1)
MIDDLE ATLANTIC:						
NEW YORK . . . . .	-	-	41,587	500	-	-
NEW JERSEY . . . . .	-	-	55,998	817	2	(1)
DELAWARE . . . . .	-	-	32,554	378	-	-
TOTAL . . . . .	-	-	130,139	1,695	2	(1)
CHESAPEAKE:						
MARYLAND . . . . .	11	(1)	4,362	68	-	-
VIRGINIA . . . . .	1,973	32	290,995	4,247	-	-
TOTAL . . . . .	1,984	32	301,357	4,315	-	-
SOUTH ATLANTIC:						
NORTH CAROLINA . . . . .	28	(1)	172,948	2,249	-	-
FLORIDA, EAST COAST .	1	(1)	16,773	178	-	-
TOTAL . . . . .	29	(1)	189,721	2,427	-	-
GULF:						
FLORIDA, WEST COAST .	1	(1)	-	-	-	-
MISSISSIPPI . . . . .	-	-	237,833	3,131	-	-
LOUISIANA . . . . .	-	-	599,538	9,046	-	-
TEXAS . . . . .	-	-	66,666	822	-	-
TOTAL . . . . .	1	(1)	904,057	12,999	-	-
GRAND TOTAL . . . . .	2,014	32	1,525,274	21,436	2	(1)

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

## **REVIEW OF CERTAIN MAJOR FISHERIES**

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## SUMMARY OF MENHADEN CATCH, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	POUND NETS		FYKE AND HOOP NETS	
	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND, MASSACHUSETTS . . . . .	2	(1)	-	-
MIDDLE ATLANTIC:				
NEW YORK . . . . .	813	16	-	-
NEW JERSEY . . . . .	6,209	151	-	-
TOTAL . . . . .	9,022	167	-	-
CHESAPEAKE:				
MARYLAND . . . . .	1,300	22	1	(1)
VIRGINIA . . . . .	31,358	513	375	6
TOTAL . . . . .	32,658	535	376	6
GRAND TOTAL . . . . .	41,692	702	376	6

AREA AND STATE	GILL NETS		TRAMMEL NETS		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND: MASSACHUSETTS . . . . . CONNECTICUT . . . . .	- 4	(1)	-	-	2 4	(1) (1)
TOTAL . . . . .	4	(1)	-	-	6	(1)
MIDDLE ATLANTIC: NEW YORK . . . . . NEW JERSEY . . . . . DELAWARE . . . . .	25 70 -	(1) 2	-	-	42,425 64,279 32,554	516 970 376
TOTAL . . . . .	95	2	-	-	139,256	1,864
CHESAPEAKE: MARYLAND . . . . . VIRGINIA . . . . .	32 7	1 (1)	-	-	5,706 330,708	91 4,786
TOTAL . . . . .	39	1	-	-	336,414	4,889
SOUTH ATLANTIC: NORTH CAROLINA . . . . FLORIDA, EAST COAST .	16 377	(1) 9	- 3	- (1)	172,992 17,154	2,249 187
TOTAL . . . . .	393	9	3	(1)	190,146	2,436
GULF: FLORIDA, WEST COAST . MISSISSIPPI . . . . . LOUISIANA . . . . . TEXAS . . . . .	75 - - -	2 - - -	8 - - -	(1) - - -	84 237,833 599,536 66,686	2 3,131 9,046 822
TOTAL . . . . .	75	2	8	(1)	904,141	13,001
GRAND TOTAL . . . . .	606	14	11	(1)	1,569,965	22,190

LESS THAN 500 POUNDS OR \$500.

# REVIEW OF CERTAIN MAJOR FISHERIES

## U. S. CLAM FISHERY

The clam fishery produced a record 64.5 million pounds of meats valued at \$14.9 million--an increase of 1.1 million pounds and \$688,000 compared with 1963, the former record year. Surf clams, landed mainly in New Jersey, were 59 percent of the catch; hard clams, 23 percent; and soft clams, 17 percent. The remainder consisted of ocean quahogs, razor, and mixed clams. The Middle Atlantic States led with 71 percent of the catch, followed by the Chesapeake area with 17 percent, New England, 10 percent, and the Pacific Coast, South Atlantic, and Gulf States, and Hawaii, the remaining 2 percent.

Dredges took 50.8 million pounds (79 percent); tongs, 5.7 million (9 percent), and rakes 3.8 million (6 percent). The remainder of the catch was taken with hoes, forks, shovels, or gathered by hand.

In Section 14 of this Digest, under the heading "Conversion Factors", there is a table which gives the average State yield per U.S. 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, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	HARD		OCEAN QUAHOG		RAZOR		SOFT	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:								
MAINE . . . . .	2	2	-	-	-	-	1,798	827
MASSACHUSETTS . . . . .	1,440	1,012	-	-	-	-	801	533
RHODE ISLAND . . . . .	1,827	956	113	11	9	4	64	29
CONNECTICUT . . . . .	331	138	-	-	-	-	(1)	(1)
TOTAL . . . . .	3,600	2,106	113	11	9	4	2,663	1,389
MIDDLE ATLANTIC:								
NEW YORK . . . . .	5,402	4,136	-	-	6	1	181	56
NEW JERSEY . . . . .	1,894	820	-	-	-	-	22	9
DELAWARE . . . . .	418	185	-	-	-	-	-	-
TOTAL . . . . .	7,714	5,141	-	-	6	1	203	65
CHESAPEAKE:								
MARYLAND . . . . .	332	172	-	-	-	-	8,164	1,667
VIRGINIA . . . . .	2,453	1,219	-	-	-	-	-	-
TOTAL . . . . .	2,785	1,391	-	-	-	-	8,164	1,667
SOUTH ATLANTIC:								
NORTH CAROLINA . . . . .	255	98	-	-	-	-	-	-
SOUTH CAROLINA . . . . .	146	54	-	-	-	-	-	-
FLORIDA, EAST COAST . . . . .	1	(1)	-	-	-	-	-	-
TOTAL . . . . .	402	152	-	-	-	-	-	-
GULF, FLORIDA, WEST COAST.								
	72	24	-	-	-	-	-	-
PACIFIC:								
ALASKA . . . . .	-	-	-	-	42	20	-	-
WASHINGTON . . . . .	351	169	-	-	167	111	-	-
OREGON . . . . .	-	-	-	-	15	9	-	-
CALIFORNIA . . . . .	1	1	-	-	-	-	-	-
TOTAL . . . . .	352	170	-	-	224	140	-	-
HAWAII . . . . .	(1)	(1)	-	-	-	-	-	-
GRAND TOTAL . . . . .	14,925	8,986	113	11	239	145	11,030	3,121

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# REVIEW OF CERTAIN MAJOR FISHERIES

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## SUMMARY OF CLAM CATCH, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	SURF		MIXED		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:						
MAINE . . . . .	-	-	-	-	1,800	829
MASSACHUSETTS . . . . .	13	3	-	-	2,263	1,552
RHODE ISLAND . . . . .	-	-	-	-	2,004	996
CONNECTICUT . . . . .	-	-	-	-	331	138
TOTAL . . . . .	13	3	-	-	6,398	3,515
MIDDLE ATLANTIC:						
NEW YORK . . . . .	1,218	109	-	-	6,807	4,302
NEW JERSEY . . . . .	36,875	2,504	-	-	36,791	3,333
DELAWARE . . . . .	-	-	-	-	418	185
TOTAL . . . . .	38,093	2,613	-	-	46,016	7,820
CHESAPEAKE:						
MARYLAND . . . . .	36	3	-	-	8,534	1,642
VIRGINIA . . . . .	-	-	-	-	2,453	1,219
TOTAL . . . . .	38	3	-	-	10,987	3,061
SOUTH ATLANTIC:						
NORTH CAROLINA . . . . .	-	-	-	-	255	95
SOUTH CAROLINA . . . . .	-	-	-	-	146	54
FLORIDA, EAST COAST . . . . .	-	-	-	-	1	(1)
TOTAL . . . . .	-	-	-	-	402	152
GULF, FLORIDA, WEST COAST . . . . .	-	-	-	-	72	24
PACIFIC:						
ALASKA . . . . .	-	-	-	-	42	20
WASHINGTON . . . . .	-	-	-	-	518	280
OREGON . . . . .	-	-	13	8	28	17
CALIFORNIA . . . . .	-	-	-	-	1	1
TOTAL . . . . .	-	-	13	8	589	318
HAWAII . . . . .	-	-	-	-	(1)	(1)
GRAND TOTAL . . . . .	38,144	2,619	13	8	64,464	14,890

1/ LESS THAN 500 POUNDS OR \$500.

## SUMMARY OF CLAM CATCH BY GEAR, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

GEAR	HARD		OCEAN QUAHOG		RAZOR		SOFT	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
DREDGES . . . . .	4,516	2,730	113	11	-	-	8,164	1,667
TONGS . . . . .	5,739	3,447	-	-	-	-	-	-
RAKES . . . . .	3,495	2,251	-	-	6	1	224	92
HOES . . . . .	60	47	-	-	9	4	2,614	1,338
FORKS . . . . .	-	-	-	-	-	-	19	20
SHOVELS . . . . .	317	159	-	-	224	140	-	-
BY HAND . . . . .	798	352	-	-	-	-	9	4
UNCLASSIFIED . . . . .	(1)	(1)	-	-	-	-	-	-
TOTAL . . . . .	14,925	8,986	113	11	239	145	11,030	3,121

GEAR	SURF		MIXED		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
DREDGES . . . . .	38,034	2,609	-	-	50,827	7,017
TONGS . . . . .	-	-	-	-	5,739	3,447
RAKES . . . . .	110	10	-	-	3,835	2,354
HOES . . . . .	-	-	-	-	2,683	1,369
FORKS . . . . .	-	-	-	-	19	20
SHOVELS . . . . .	-	-	13	8	554	307
BY HAND . . . . .	-	-	-	-	807	356
UNCLASSIFIED . . . . .	-	-	-	-	(1)	(1)
TOTAL . . . . .	38,144	2,619	13	8	64,464	14,890

1/ LESS THAN 500 POUNDS OR \$500.

# REVIEW OF CERTAIN MAJOR FISHERIES

## U. S. CRAB FISHERY, 1964

The U. S. catch of crabs was a record 270.4 million pounds--a gain of 18.1 million pounds (7 percent) and \$2.5 million (12 percent) compared with 1963, the former peak year.

The Pacific Coast States led in volume with 110.0 million pounds (41 percent) followed by the Chesapeake States with 78.6 million (29 percent); the South Atlantic States, 52.3 million (19 percent); and the Gulf States, 26.3 million pounds (10 percent). The remainder was landed in the New England and Middle Atlantic States and Hawaii.

The Alaska king crab fishery reached a peak production of 86.7 million pounds valued at \$8.2 million--8.0 million pounds more than in 1963, the former record year. Hard and soft blue crab landings of 157.1 million pounds were 11.8 million more than in 1963, and exceeded the record 1962 production by 1.9 million pounds. Dungeness crab landings (23.0 million pounds) were 1.8 million less than in 1963 and only slightly over half the record 45.8 million pounds landed in 1948.

In Section 14 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 catch tables for the Atlantic and Gulf States.

### SUMMARY OF CRAB CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	BLUE				DUNGENESS	
	HARD		SOFT AND PEELER			
	QUANTITY (1)	VALUE (1)	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND, CONNECTICUT . . .			-	-	-	-
MIDDLE ATLANTIC:						
NEW JERSEY . . . . .	569	82	10	2	-	-
DELAWARE . . . . .	313	32	2	1	-	-
TOTAL . . . . .	882	114	12	3	-	-
CHESAPEAKE:						
MARYLAND . . . . .	22,540	1,609	3,498	1,263	-	-
VIRGINIA . . . . .	51,572	3,385	998	452	-	-
TOTAL . . . . .	74,112	4,994	4,496	1,715	-	-
SOUTH ATLANTIC:						
NORTH CAROLINA . . . . .	24,002	1,275	70	33	-	-
SOUTH CAROLINA . . . . .	9,436	375	-	-	-	-
GEORGIA . . . . .	11,532	472	-	-	-	-
FLORIDA, EAST COAST . . . . .	6,951	448	2	1	-	-
TOTAL . . . . .	52,011	2,570	72	34	-	-
GULF:						
LOUISIANA, WEST COAST . . . . .	14,056	843	13	7	-	-
ALABAMA . . . . .	1,762	110	-	-	-	-
MISSISSIPPI . . . . .	126	82	2	(1)	-	-
LOUISIANA . . . . .	5,692	379	200	127	-	-
TEXAS . . . . .	2,484	175	(1)	(1)	-	-
TOTAL . . . . .	25,292	1,589	215	134	-	-
PACIFIC COAST:						
ALASKA . . . . .	-	-	-	-	12,708	1,466
WASHINGTON . . . . .	-	-	-	-	5,163	1,092
OREGON . . . . .	-	-	-	-	3,357	617
CALIFORNIA . . . . .	-	-	-	-	1,815	617
TOTAL . . . . .	-	-	-	-	23,043	3,992
GRAND TOTAL . . . . .	152,297	9,267	4,795	1,886	23,043	3,992

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

## **REVIEW OF CERTAIN MAJOR FISHERIES**

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## SUMMARY OF CRAB CATCH, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE		GREEN		KING		ROCK	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:							
MAINE . . . . .		-	-	-	-	1,964	62
NEW HAMPSHIRE . . . . .		38	3	-	-	10	{1}
MASSACHUSETTS . . . . .		21	2	-	-	50	12
RHODE ISLAND . . . . .		4	(1)	-	-	205	24
TOTAL . . . . .		63	5	-	-	2,232	118
MIDDLE ATLANTIC, NEW JERSEY.		-	-	-	-	45	2
PACIFIC COAST:							
ALASKA . . . . .		-	-	86,721	8,186	-	-
CALIFORNIA . . . . .		-	-	-	-	264	25
TOTAL . . . . .		-	-	86,721	8,186	264	25
GRAND TOTAL . . . . .		63	5	86,721	8,186	2,541	145
AREA AND STATE		STONE		TANNER		OTHER	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:							
MAINE . . . . .		-	-	-	-	-	1,964
NEW HAMPSHIRE . . . . .		-	-	-	-	-	48
MASSACHUSETTS . . . . .		-	-	-	-	-	3
RHODE ISLAND . . . . .		-	-	-	-	-	71
CONNECTICUT . . . . .		-	-	-	-	-	14
TOTAL . . . . .		-	-	-	-	-	212
(1) . . . . .		-	-	-	-	-	{1}
MIDDLE ATLANTIC:							
NEW JERSEY . . . . .		-	-	-	-	-	624
DELAWARE . . . . .		-	-	-	-	-	315
TOTAL . . . . .		-	-	-	-	-	939
CHESAPEAKE:							
MARYLAND . . . . .		-	-	-	-	-	26,038
VIRGINIA . . . . .		-	-	-	-	-	52,570
TOTAL . . . . .		-	-	-	-	-	78,608
SOUTH ATLANTIC:							
NORTH CAROLINA . . . . .		-	-	-	-	-	24,162
SOUTH CAROLINA . . . . .		-	-	-	-	-	9,436
GEORGIA . . . . .		-	-	-	-	-	11,532
FLORIDA, EAST COAST . . . . .		191	84	-	-	-	7,144
TOTAL . . . . .		191	84	-	-	-	52,274
GULF:							
FLORIDA, WEST COAST . . . . .		752	233	-	-	-	14,833
ALABAMA . . . . .		-	-	-	-	-	1,762
MISSISSIPPI . . . . .		-	-	-	-	-	1,288
LOUISIANA . . . . .		-	-	-	-	-	5,692
TEXAS . . . . .		-	-	-	-	-	2,484
TOTAL . . . . .		752	233	-	-	-	26,259
PACIFIC COAST:							
ALASKA . . . . .		-	-	14	1	-	-
WASHINGTON . . . . .		-	-	-	-	-	99,443
OREGON . . . . .		-	-	-	-	-	5,163
CALIFORNIA . . . . .		-	-	-	-	-	3,357
TOTAL . . . . .		-	-	14	1	-	110,042
HAWAII . . . . .		-	-	-	-	14	25
GRAND TOTAL . . . . .		943	317	14	1	25	14
						270,442	23,613

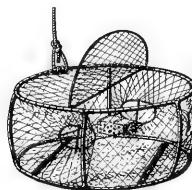
1/ LESS THAN 500 POUNDS OR \$500.

# REVIEW OF CERTAIN MAJOR FISHERIES

## SUMMARY OF CRAB CATCH BY GEAR, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

GEAR	BLUE				DUNGENESS			
	HARD		SOFT AND PEELER					
OTTER TRAWLS . . . . .	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE		
FOUND NETS . . . . .	16,437	682	64	30	14	5		
POTS . . . . .	225	15	39	174	-	-		
LINES, TROT WITH BAITS . . .	94,325	6,068	674	286	23,029	3,987		
DIP NETS . . . . .	26,433	1,571	216	91	-	-		
SCRAPES . . . . .	1,510	114	204	112	-	-		
DREDGES . . . . .	.89	7	3,207	1,168	-	-		
BRUSH TRAPS . . . . .	13,278	810	-	-	-	-		
BY HAND . . . . .	-	-	24	16	-	-		
TOTAL . . . . .	152,297	9,267	4,795	1,886	23,043	3,992		
GEAR	GREEN		KING		ROCK			
OTTER TRAWLS . . . . .	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE		
POTS . . . . .	- 63	- 5	- 86,721	- 8,186	- 2,499	- 143		
TOTAL . . . . .	63	5	86,721	8,186	2,541	145		
GEAR	STONE		TANNER		OTHER		TOTAL	
OTTER TRAWLS . . . . .	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
FOUND NETS . . . . .	-	-	-	-	-	-	16,557	719
POTS . . . . .	-	-	-	-	-	-	611	189
LINES, TROT WITH BAITS . . .	943	317	14	1	6	4	208,274	18,997
DIP NETS . . . . .	-	-	-	-	-	-	25,649	1,662
SCRAPES . . . . .	-	-	-	-	-	-	1,714	226
DREDGES . . . . .	-	-	-	-	-	-	11	6
BRUSH TRAPS . . . . .	-	-	-	-	-	-	3,296	1,175
BY HAND . . . . .	-	-	-	-	-	-	13,278	810
UNCLASSIFIED . . . . .	-	-	-	-	8	4	20	16
TOTAL . . . . .	943	317	14	1	25	14	270,442	23,813



DUNGENESS CRAB POT

## U. S. OYSTER FISHERY, 1964

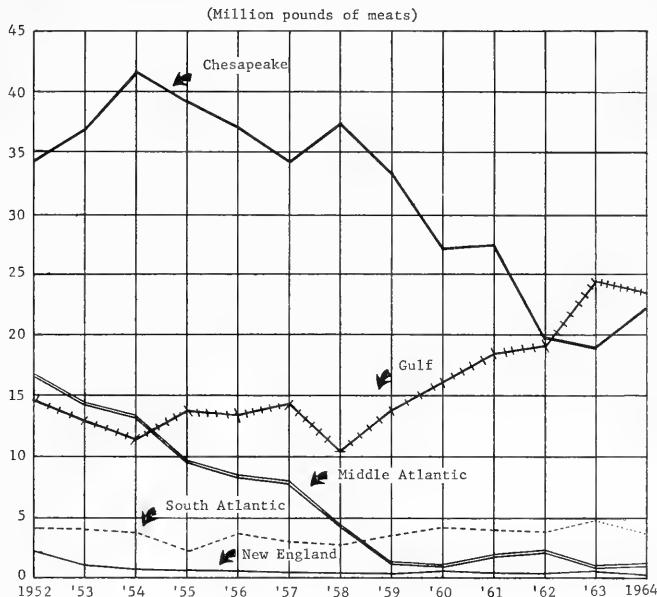
The oyster fishery produced 60.5 million pounds of meats valued at \$27.9 million--a gain of 2.1 million pounds and \$821,000 compared with 1963. The increased production and value occurred mainly in the Chesapeake States where the catch (22.1 million pounds) and value (\$15.8 million) were 3.8 million pounds and \$2.1 million more than in the previous year. In 1964, both the volume and value of the oyster catch declined in the New England, South Atlantic, and Gulf areas.

Despite this decline, the Gulf States led in production of oyster meats with a yield of 23.4 million pounds--39 percent of the total catch. The Chesapeake Bay was second with 22.1 million pounds (37 percent), followed by the Pacific area with 10.0 million (16 percent). The New England, Middle Atlantic, and South Atlantic States accounted for the remainder.

Dredges were used to take 41.5 million pounds (69 percent) of the oyster harvest, while tongs accounted for 17.9 million (30 percent). The remainder of the catch was taken using rakes and diving outfits, or was gathered by hand.

In Section 14 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.

## ATLANTIC AND GULF COAST OYSTER PRODUCTION, 1952-64



# REVIEW OF CERTAIN MAJOR FISHERIES

## SUMMARY OF OYSTER CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	DREDGES		TONGS		RAKES	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:						
MAINE . . . . .	(1) 22	(1) 27	-	-	12	25
MASSACHUSETTS . . . . .	-	-	22	24	-	-
RHODE ISLAND . . . . .	-	-	13	13	-	-
CONNECTICUT . . . . .	123	235	1	1	-	-
TOTAL . . . . .	145	262	36	38	12	25
MIDDLE ATLANTIC:						
NEW YORK . . . . .	203	304	10	12	-	-
NEW JERSEY . . . . .	1,000	925	98	99	-	-
DELAWARE . . . . .	45	27	-	-	-	-
TOTAL . . . . .	1,248	1,256	108	111	-	-
CHESAPEAKE:						
MARYLAND . . . . .	1,879	1,461	6,069	4,000	-	-
VIRGINIA . . . . .	10,385	7,621	3,483	2,513	279	209
TOTAL . . . . .	12,264	9,082	9,552	6,513	279	209
SOUTH ATLANTIC:						
NORTH CAROLINA . . . . .	267	162	163	94	-	-
SOUTH CAROLINA . . . . .	-	-	2,245	864	-	-
GEORGIA . . . . .	-	-	20	7	-	-
FLORIDA, EAST COAST . . . . .	-	-	40	12	-	-
TOTAL . . . . .	267	162	2,468	997	-	-
GULF:						
FLORIDA, WEST COAST . . . . .	-	-	2,768	774	-	-
ALABAMA . . . . .	49	17	956	307	-	-
MISSISSIPPI . . . . .	3,952	864	877	235	-	-
LOUISIANA . . . . .	10,765	2,765	610	201	-	-
TEXAS . . . . .	3,265	1,059	48	17	-	-
TOTAL . . . . .	16,031	4,705	5,259	1,534	-	-
PACIFIC:						
WASHINGTON:						
PACIFIC, WESTERN . . . . .	8,244	2,167	-	-	-	-
TOTAL . . . . .	34	98	-	-	-	-
OREGON, PACIFIC . . . . .	8,276	2,265	-	-	-	-
CALIFORNIA:						
EASTERN . . . . .	-	-	5	10	-	-
PACIFIC . . . . .	909	164	446	80	-	-
TOTAL . . . . .	909	164	451	90	-	-
TOTAL PACIFIC STATES . . . . .	9,522	2,555	451	90	-	-
GRAND TOTAL . . . . .	41,477	18,042	17,674	9,283	291	234

AREA AND STATE	DIVING OUTFITS		BY HAND		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:						
MAINE . . . . .	2	1	-	-	2	1
MASSACHUSETTS . . . . .	-	-	-	-	56	76
RHODE ISLAND . . . . .	-	-	-	-	13	13
CONNECTICUT . . . . .	-	-	-	-	124	236
TOTAL . . . . .	2	1	-	-	195	326
MIDDLE ATLANTIC:						
NEW YORK . . . . .	-	-	-	-	213	316
NEW JERSEY . . . . .	-	-	-	-	1,098	1,024
DELAWARE . . . . .	-	-	-	-	45	27
TOTAL . . . . .	-	-	-	-	1,356	1,367

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# REVIEW OF CERTAIN MAJOR FISHERIES

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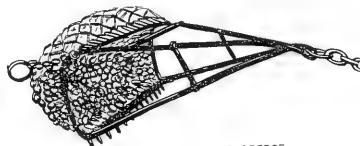
## SUMMARY OF OYSTER CATCH, 1964 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	DIVING OUTFITS		BY HAND		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
CHESAPEAKE:						
MARYLAND . . . . .	-	-	-	-	7,948	5,461
VIRGINIA . . . . .	-	-	3	2	14,150	10,345
TOTAL. . . . .	-	-	3	2	22,098	15,806
SOUTH ATLANTIC:						
NORTH CAROLINA . . . . .	-	-	298	139	726	415
SOUTH CAROLINA . . . . .	-	-	266	113	2,511	997
GEORGIA . . . . .	-	-	176	62	196	69
FLORIDA, EAST COAST . . . . .	-	-	52	16	92	26
TOTAL. . . . .	-	-	792	330	3,527	1,509
GULF:						
FLORIDA, WEST COAST . . . . .	-	-	25	7	2,793	781
ALABAMA . . . . .	-	-	-	-	1,005	324
MISSISSIPPI . . . . .	-	-	-	-	6,829	1,099
LOUISIANA . . . . .	-	-	26	10	11,401	2,976
TEXAS . . . . .	-	-	44	17	3,357	1,093
TOTAL. . . . .	-	-	95	34	23,385	6,273
PACIFIC:						
WASHINGTON:						
PACIFIC . . . . .	-	-	-	-	8,244	2,187
WESTERN . . . . .	-	-	-	-	34	96
TOTAL. . . . .	-	-	-	-	8,278	2,285
OREGON, PACIFIC . . . . .	-	-	-	-	335	106
CALIFORNIA:						
EASTERN . . . . .	-	-	-	-	5	10
PACIFIC . . . . .	-	-	-	-	1,355	244
TOTAL. . . . .	-	-	-	-	1,360	254
TOTAL PACIFIC STATES . . . . .	-	-	-	-	9,973	2,645
GRAND TOTAL. . . . .	2	1	890	366	60,534	27,926

1/ LESS THAN 500 POUNDS OR \$500.

NOTE:--THE CATCH BY HAND IN WASHINGTON AND OREGON HAS BEEN INCLUDED WITH THE CATCH BY DREDGES; IN CALIFORNIA, IT HAS BEEN INCLUDED WITH TONGS.



OYSTER DREDGE

# REVIEW OF CERTAIN MAJOR FISHERIES

## SUMMARY OF ATLANTIC AND GULF OYSTER CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	PUBLIC		PRIVATE	
	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND:				
MAINE . . . . .	2	1	-	-
MASSACHUSETTS . . . . .	23	29	33	47
RHODE ISLAND . . . . .	13	13	-	-
CONNECTICUT. . . . .	1	1	123	235
TOTAL . . . . .	39	44	156	262
MIDDLE ATLANTIC:				
NEW YORK . . . . .	49	70	164	246
NEW JERSEY . . . . .	92	92	1,006	932
DELAWARE . . . . .	10	6	35	21
TOTAL . . . . .	151	168	1,205	1,199
CHESAPEAKE:				
MARYLAND . . . . .	6,803	4,514	1,145	947
VIRGINIA . . . . .	3,332	2,411	10,818	7,934
TOTAL . . . . .	10,135	6,925	11,963	8,881
SOUTH ATLANTIC:				
NORTH CAROLINA . . . . .	650	373	78	42
SOUTH CAROLINA . . . . .	-	-	2,511	997
GEORGIA . . . . .	-	-	196	69
FLORIDA, EAST COAST. . . . .	51	15	41	13
TOTAL . . . . .	701	368	2,826	1,121
GULF:				
FLORIDA, WEST COAST. . . . .	2,663	744	130	37
ALABAMA . . . . .	931	297	74	27
MISSISSIPPI. . . . .	3,704	841	1,125	258
LOUISIANA. . . . .	1,326	297	10,075	2,679
TEXAS. . . . .	3,266	1,055	91	38
TOTAL . . . . .	11,890	3,234	11,495	3,039
GRAND TOTAL . . . . .	22,916	10,759	27,645	14,522

## SUMMARY OF OYSTER CATCH BY SPECIES, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

SPECIES	QUANTITY	VALUE
EASTERN		
PUBLIC . . . . .	22,916	10,759
PRIVATE <sup>1/</sup> . . . . .	27,650	14,532
TOTAL. . . . .	50,566	25,291
PACIFIC		
WESTERN . . . . .	9,934	2,537
	34	98
GRAND TOTAL. . . . .	60,534	27,926

<sup>1/</sup> EASTERN, PRIVATE, INCLUDES 4,900 POUNDS OF OYSTERS, VALUED AT \$10,277 HARVESTED IN CALIFORNIA

# REVIEW OF CERTAIN MAJOR FISHERIES

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## U. S. SHRIMP FISHERY

U.S. shrimp landings were 211.8 million pounds valued at \$70.4 million--a decrease of 28.7 million pounds, but a gain of \$334,000 compared with 1963. The decline in catch occurred principally in the Gulf States where the production of 179.0 million pounds was 24.1 million (12 percent) less than in 1963. The value in this area, however, (\$62.7 million) was down only 1 percent. A strong demand for shrimp and greater percentage of the high-priced large shrimp resulted in relatively stable ex-vessel prices along the Gulf Coast. In the Pacific Coast States, landings of 14.5 million pounds were 32 percent below the 1963 level. In the South Atlantic States, the catch of 17.3 million pounds increased 12 percent and the value, \$6.6 million, 26 percent compared with the previous year.

The otter trawl fleet took 208.7 million pounds--99 percent of the total catch. An additional 3.2 million pounds were taken by bag nets, beam trawls, pots and traps, cast nets, and brush traps.

There were 16,133 fishermen employed on the 3,577 vessels and 5,029 boats in the U.S. shrimp otter trawl fishery. Texas led in the number of vessels (craft of 5 net tons and over) with 1,387, while Louisiana was first in boats with 2,967.

### SUMMARY OF SHRIMP OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1964

GROSS TONNAGE	SOUTH ATLANTIC					TOTAL, EXCLUSIVE OF DUPLICATION
	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA, EAST COAST		
5 - 9.	144	18	25	7	165	
10 - 19.	80	60	69	32	214	
20 - 29.	39	40	67	47	145	
30 - 39.	40	30	81	75	168	
40 - 49.	41	25	47	79	132	
50 - 59.	17	7	22	31	56	
60 - 69.	6	2	17	25	37	
70 - 79.	4	-	3	7	12	
80 - 89.	-	-	2	1	2	
90 - 99.	-	-	-	1	1	
100 - 109.	-	-	-	1	1	
110 - 119.	-	-	-	1	1	
130 - 139.	-	-	-	-	-	
140 - 149.	-	-	-	-	-	
160 - 169.	-	-	-	-	-	
TOTAL VESSELS . . . . .	371	163	333	307	954	
TOTAL GROSS TONNAGE . . .	7,832	4,677	10,343	12,004	26,277	
GULF						
GROSS TONNAGE	FLORIDA, WEST COAST	ALABAMA	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
5 - 9.	29	8	7	57	20	104
10 - 19.	75	44	69	252	139	483
20 - 29.	56	35	106	183	82	340
30 - 39.	155	49	72	189	167	387
40 - 49.	171	41	69	200	169	399
50 - 59.	77	23	30	150	169	265
60 - 69.	247	21	34	205	405	535
70 - 79.	76	7	11	79	174	211
80 - 89.	10	1	5	21	30	41
90 - 99.	3	-	1	3	5	9
100 - 109.	1	1	1	2	3	4
110 - 119.	1	-	-	-	1	1
130 - 139.	-	-	-	1	1	1
140 - 149.	-	-	-	1	1	1
160 - 169.	-	-	-	-	1	1
TOTAL VESSELS . . . . .	901	230	405	1,343	1,387	2,782
TOTAL GROSS TONNAGE . . .	42,659	8,225	14,405	53,617	70,572	116,837

(CONTINUED ON NEXT PAGE)

# REVIEW OF CERTAIN MAJOR FISHERIES

## SUMMARY OF SHRIMP OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1964 - Continued

GROSS TONNAGE	SOUTH ATLANTIC AND GULF	PACIFIC				GRAND TOTAL, EXCLUSIVE OF DUPLI- CATION	
	TOTAL, EXCLUSIVE OF DUPLI- CATION	ALASKA	WASH- INGTON	OREGON	CALI- FORNIA		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
5 - 9 . . . . .	288	-	-	-	-	288	
10 - 19 . . . . .	688	-	3	1	4	692	
20 - 29 . . . . .	466	1	1	13	5	481	
30 - 39 . . . . .	501	1	1	3	-	506	
40 - 49 . . . . .	467	-	-	5	1	473	
50 - 59 . . . . .	297	-	-	1	-	298	
60 - 69 . . . . .	553	1	1	2	1	556	
70 - 79 . . . . .	214	3	-	-	-	217	
80 - 89 . . . . .	43	-	-	-	-	43	
90 - 99 . . . . .	10	-	-	-	-	10	
100 - 109 . . . . .	5	1	-	1	1	8	
110 - 119 . . . . .	2	-	-	-	-	2	
130 - 139 . . . . .	1	-	-	-	-	1	
140 - 149 . . . . .	1	-	-	-	-	1	
160 - 169 . . . . .	1	-	-	-	-	1	
TOTAL VESSELS . . .	3,537	7	3	28	9	40	3,577
TOTAL GROSS TONNAGE	134,557	435	136	985	327	1,628	136,185

## SUMMARY OF SHRIMP OTTER TRAWL OPERATING UNITS, 1964

AREA AND STATE	BOAT FISHERY				
	BOATS	FISHERMEN		OTTER TRAWLS	
		REGULAR	CASUAL	NUMBER	YARDS AT MOUTH
NEW ENGLAND, MAINE . . . . .	28	28	6	28	560
SOUTH ATLANTIC:					
NORTH CAROLINA . . . . .	349	543	4	349	5,118
SOUTH CAROLINA . . . . .	63	126	-	63	1,100
GEORGIA . . . . .	213	162	255	213	2,353
FLORIDA, EAST COAST . . . . .	16	16	4	16	192
TOTAL, EXCLUSIVE OF DUPLICATION, . . . . .	641	867	263	641	8,763
GULF:					
FLORIDA, WEST COAST . . . . .	107	160	12	107	1,327
ALABAMA . . . . .	231	380	27	231	3,234
MISSISSIPPI . . . . .	360	232	205	360	3,600
LOUISIANA . . . . .	2,967	2,974	1,118	2,967	38,937
TEXAS . . . . .	695	705	292	695	8,261
TOTAL, EXCLUSIVE OF DUPLICATION, . . . . .	4,360	4,451	1,654	4,360	55,359
SOUTH ATLANTIC AND GULF, TOTAL, EXCLUSIVE OF DUPLI- CATION, . . . . .	5,001	5,318	1,917	5,001	64,122
GRAND TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	5,029	5,346	1,923	5,029	64,682

(CONTINUED ON NEXT PAGE)

# REVIEW OF CERTAIN MAJOR FISHERIES

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## SUMMARY OF SHRIMP OTTER TRAWL OPERATING UNITS, 1964 - Continued

AREA AND STATE	VESSEL FISHERY				
	VESSELS		FISHERMEN	OTTER TRAWLS	
	NUMBER	GROSS TONNAGE	NUMBER	NUMBER	YARDS AT MOUTH
SOUTH ATLANTIC:					
NORTH CAROLINA . . . . .	371	7,832	814	491	8,993
SOUTH CAROLINA . . . . .	183	4,677	377	314	6,219
GEORGIA . . . . .	333	10,343	667	606	8,695
FLORIDA, EAST COAST . . . . .	307	12,004	656	592	8,996
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	954	26,277	1,989	1,573	26,254
GULF:					
FLORIDA, WEST COAST . . . . .	901	42,659	2,254	1,698	25,143
ALABAMA . . . . .	230	8,225	582	386	6,248
MISSISSIPPI . . . . .	405	14,405	1,000	643	10,444
LOUISIANA . . . . .	1,343	53,617	3,503	2,319	36,073
TEXAS . . . . .	1,387	70,572	3,749	2,609	39,597
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	2,782	116,837	7,121	4,842	75,258
SOUTH ATLANTIC AND GULF, TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	3,537	134,557	8,730	6,025	95,551
PACIFIC:					
ALASKA . . . . .	7	435	27	7	105
WASHINGTON . . . . .	3	136	9	3	57
OREGON . . . . .	28	965	90	28	532
CALIFORNIA . . . . .	9	327	33	9	132
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	40	1,628	134	40	718
GRAND TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	3,577	136,185	8,864	6,065	96,269
TOTAL (BOAT AND VESSEL FISHERY)					
AREA AND STATE	BOATS AND VESSELS		FISHERMEN	OTTER TRAWLS	
	NUMBER	NUMBER	NUMBER	YARDS AT MOUTH	
NEW ENGLAND, MAINE . . . . .	28	34	28		560
SOUTH ATLANTIC:					
NORTH CAROLINA . . . . .	720	1,361	840		14,111
SOUTH CAROLINA . . . . .	246	503	377		7,319
GEORGIA . . . . .	546	1,104	819		11,048
FLORIDA, EAST COAST . . . . .	323	676	608		9,188
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	1,595	3,119	2,214		35,017
GULF:					
FLORIDA, WEST COAST . . . . .	1,009	2,426	1,805		27,470
ALABAMA . . . . .	461	969	617		9,482
MISSISSIPPI . . . . .	765	11,437	1,003		14,044
LOUISIANA . . . . .	4,310	7,595	5,286		75,010
TEXAS . . . . .	2,082	47,746	3,304		47,856
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	7,142	13,226	9,202		130,617
SOUTH ATLANTIC AND GULF, TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	8,538	15,965	11,026		159,673
PACIFIC:					
ALASKA . . . . .	7	27	7		105
WASHINGTON . . . . .	3	9	3		57
OREGON . . . . .	28	90	28		532
CALIFORNIA . . . . .	9	33	9		132
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	40	134	40		718
GRAND TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	8,606	16,133	11,094		160,951

# REVIEW OF CERTAIN MAJOR FISHERIES

## SUMMARY OF SHRIMP CATCH, 1964

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

AREA AND STATE	BAG NETS		BEAM TRAWLS		OTTER TRAWLS		POTS AND TRAPS	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND: MAINE . . . . . MASSACHUSETTS . . . . .	-	-	-	-	925	112	-	-
TOTAL . . . . .	-	-	-	-	932	113	-	-
MIDDLE ATLANTIC, NEW JERSEY . . . . .	-	-	2	2	-	-	-	-
SOUTH ATLANTIC: NORTH CAROLINA . . . . . SOUTH CAROLINA . . . . . GEORGIA . . . . . FLORIDA, EAST COAST . . . . .	210	64	-	-	4,059 2,597 5,939 4,476	1,439 853 2,298 1,964	-	-
TOTAL . . . . .	210	64	-	-	17,061	6,554	-	-
GULF: FLORIDA, WEST COAST . . . ALABAMA . . . . . MISSISSIPPI . . . . . LOUISIANA . . . . . TEXAS . . . . .	-	-	-	-	39,966 7,215 6,416 59,365 66,053	13,322 2,630 1,805 18,790 26,144	-	-
TOTAL . . . . .	-	-	-	-	179,015	62,691	-	-
PACIFIC: ALASKA . . . . . WASHINGTON . . . . . OREGON . . . . . CALIFORNIA . . . . .	-	-	2,790 10	112 .4	4,932 314 5,280 1,100	197 24 449 110	5 60	(1) 29
TOTAL . . . . .	-	-	2,800	116	11,626	780	71	33
MISSISSIPPI RIVER AND TRIBUTARIES . . . . .	-	-	-	-	-	-	17	4
GRAND TOTAL . . . . .	210	64	2,802	118	208,654	70,138	88	37

AREA AND STATE	CAST NETS		BRUSH TRAPS		UNCLASSIFIED		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
NEW ENGLAND: MAINE . . . . . MASSACHUSETTS . . . . .	-	-	-	-	-	-	925	112
TOTAL . . . . .	-	-	-	-	-	-	932	113
MIDDLE ATLANTIC, NEW JERSEY . . . . .	-	-	-	-	-	-	2	2
SOUTH ATLANTIC: NORTH CAROLINA . . . . . SOUTH CAROLINA . . . . . GEORGIA . . . . . FLORIDA, EAST COAST . . . . .	- 35 (1) 15	- 8 (1) 7	-	-	-	-	4,279 2,632 5,930 4,491	1,503 881 2,298 1,971
TOTAL . . . . .	50	15	-	-	-	-	17,341	6,633
GULF: FLORIDA, WEST COAST . . . ALABAMA . . . . . MISSISSIPPI . . . . . LOUISIANA . . . . . TEXAS . . . . .	-	-	-	-	-	-	39,966 7,215 6,416 59,362 66,053	13,322 2,630 1,805 18,790 26,144
TOTAL . . . . .	-	-	17	4	-	-	179,032	62,695
PACIFIC: ALASKA . . . . . WASHINGTON . . . . . OREGON . . . . . CALIFORNIA . . . . .	-	-	-	-	-	-	7,727 384 5,280 1,106	309 57 449 114
TOTAL . . . . .	-	-	-	-	-	-	14,497	929
MISSISSIPPI RIVER AND TRIBUTARIES . . . . .	-	-	-	-	-	-	17	4
HAWAII . . . . .	-	-	-	-	(1)	(1)	(1)	(1)
GRAND TOTAL . . . . .	50	15	17	4	(1)	(1)	211,821	70,376

1/ LESS THAN 500 POUNDS OR \$500.

# REVIEW OF CERTAIN MAJOR FISHERIES

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## U. S. FISH OTTER TRAWL FLEET, 1964

The following tables contain information on the U. S. fish otter trawl fleet. The data include detailed information on the operating units in this fishery and a breakdown of vessels by area, State, and gross tonnage. In 1964, there were 1,163 vessels of over 5 net tons and 130 motor boats in the fish otter trawl fleet. A total of 5,606 fishermen was employed on these craft. Two trawls were used by 31 of the vessels, bringing the total number of trawls to 1,194.

### SUMMARY OF FISH OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1964

GROSS TONNAGE	NEW ENGLAND				
	MAINE	MASSA-CHUSETTS	RHODE ISLAND	CONNEC-TICUT	TOTAL, EXCLUSIVE OF DUPLI-CATION
					NUMBER
5 - 9.	-	4	-	-	4
10 - 19.	8	34	14	7	63
20 - 29.	12	37	16	5	67
30 - 39.	6	52	9	9	69
40 - 49.	3	45	14	2	53
50 - 59.	8	33	5	2	41
60 - 69.	2	36	1	1	36
70 - 79.	5	32	3	-	36
80 - 89.	-	18	-	-	18
90 - 99.	1	11	-	-	12
100 - 109.	3	11	-	-	12
110 - 119.	5	20	-	-	22
120 - 129.	-	9	-	-	9
130 - 139.	1	8	-	-	9
140 - 149.	1	5	-	-	6
150 - 159.	1	9	1	-	11
160 - 169.	5	8	-	-	8
170 - 179.	2	4	-	-	5
180 - 189.	-	2	-	-	2
190 - 199.	1	5	-	-	5
200 - 209.	-	1	-	-	1
210 - 219.	-	3	-	-	3
220 - 229.	-	3	-	-	3
230 - 239.	1	2	-	-	3
240 - 249.	1	2	-	-	3
250 - 259.	1	2	-	-	3
260 - 269.	-	2	-	-	2
270 - 299.	-	2	-	-	2
300 - 309.	2	-	-	-	2
310 - 319.	2	-	-	-	2
320 - 329.	2	-	-	-	2
450 - 459.	-	1	-	-	1
TOTAL VESSELS.	73	401	63	26	514
TOTAL GROSS TONNAGE.	7,090	29,671	2,194	771	36,228

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# REVIEW OF CERTAIN MAJOR FISHERIES

## SUMMARY OF FISH OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1964 - Continued

GROSS TONNAGE	MIDDLE ATLANTIC				CHESAPEAKE		
	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLI- CATION	MARYLAND	VIRGINIA	TOTAL, EXCLUSIVE OF DUPLI- CATION
5 - 9.	4	10	-	14	-	2	2
10 - 19.	41	27	1	69	7	7	14
20 - 29.	48	23	1	70	5	5	10
30 - 39.	30	16	1	45	2	7	8
40 - 49.	17	14	-	31	2	5	6
50 - 59.	9	16	-	23	3	7	8
60 - 69.	8	10	-	13	1	5	5
70 - 79.	16	15	-	25	1	10	11
80 - 89.	4	3	-	5	-	1	1
90 - 99.	1	1	-	1	-	-	-
100 - 109.	2	2	-	3	-	2	2
110 - 119.	5	6	-	7	-	5	5
120 - 129.	4	1	-	4	-	2	2
130 - 139.	1	1	-	1	-	2	2
140 - 149.	1	1	-	2	-	2	2
150 - 159.	1	-	-	1	-	-	-
160 - 199.	1	1	-	1	-	1	1
TOTAL VESSELS.	193	147	3	315	21	63	79
TOTAL GROSS TONNAGE.	8,115	6,675	78	12,585	691	4,024	4,463
GROSS TONNAGE	SOUTH ATLANTIC		GULF				
	NORTH CAROLINA, TOTAL, EXCLUSIVE OF DUPLICATION	FLORIDA, WEST COAST	MISSISSIPPI	LOUISIANA	TOTAL, EXCLUSIVE OF DUPLI- CATION		
5 - 9.	7	-	-	-	-	-	-
10 - 19.	6	-	13	2	15		
20 - 29.	12	-	25	-	25		
30 - 39.	13	1	21	-	22		
40 - 49.	20	1	7	4	12		
50 - 59.	9	1	6	-	7		
60 - 69.	5	-	5	-	5		
70 - 79.	2	-	3	-	3		
80 - 89.	-	-	1	-	1		
90 - 99.	-	-	-	1	1		
120 - 129.	2	-	-	-	-	-	-
150 - 159.	-	-	1	-	-	-	1
TOTAL VESSELS.	76	3	82	7	92		
TOTAL GROSS TONNAGE.	2,973	128	2,982	285	3,395		

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

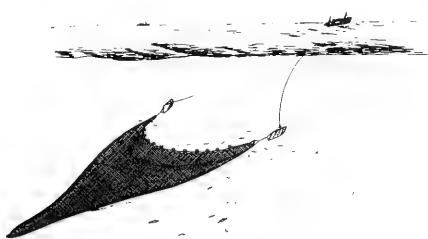
# REVIEW OF CERTAIN MAJOR FISHERIES

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## SUMMARY OF FISH OTTER TRAWL VESSELS BY TONNAGE GROUPS, 1964 - Continued

GROSS TONNAGE	PACIFIC					GREAT LAKES	GRAND TOTAL, EX- CLUSIVE OF DUPLI- CATION
	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLI- CATION		
NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
5 - 9.	-	1	-	1	2	2	30
10 - 19.	-	9	-	7	16	6	181
20 - 29.	-	12	7	16	35	5	199
30 - 39.	-	16	9	11	34	1	171
40 - 49.	1	30	19	12	56	5	164
50 - 59.	-	17	9	7	31	-	106
60 - 69.	-	10	2	2	14	-	68
70 - 79.	-	4	1	5	10	1	63
80 - 89.	1	5	3	3	11	-	33
90 - 99.	-	3	2	-	5	-	18
100 - 109.	-	2	2	5	-	-	18
110 - 119.	-	-	1	1	-	-	26
120 - 129.	-	-	-	-	-	-	11
130 - 139.	-	-	-	-	-	-	11
140 - 149.	-	-	-	-	-	-	6
150 - 159.	-	-	-	-	-	-	12
160 - 169.	-	-	-	-	-	-	8
170 - 179.	-	-	-	-	-	-	5
180 - 189.	-	-	-	-	-	-	2
190 - 199.	-	-	-	-	-	-	5
200 - 209.	-	-	-	-	-	-	1
210 - 219.	-	-	-	-	-	-	3
220 - 229.	-	-	-	-	-	-	3
230 - 239.	-	-	-	-	-	-	3
240 - 249.	-	-	-	-	-	-	3
250 - 259.	-	-	-	-	-	-	2
260 - 269.	-	-	-	-	-	-	2
270 - 299.	-	-	-	-	-	-	2
300 - 309.	-	-	-	-	-	-	2
310 - 319.	-	-	-	-	-	-	2
320 - 329.	-	-	-	-	-	-	2
450 - 459.	-	-	-	-	-	-	1
TOTAL VESSELS.	2	109	54	67	220	1/ 20	1,163
TOTAL GROSS TONNAGE.	126	5,161	2,653	2,848	10,152	531	60,980

<sup>1/</sup> INCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.



FISH OTTER TRAWL

# REVIEW OF CERTAIN MAJOR FISHERIES

## SUMMARY OF FISH OTTER TRAWL OPERATING UNITS, 1964

AREA AND STATE	BOAT FISHERY				
	BOATS	FISHERMEN		OTTER TRAWLS	
		REGULAR	CASUAL		
NEW ENGLAND:					
MAINE . . . . .	40	46	10	40	779
MASSACHUSETTS . . . . .	4	4	3	4	68
RHODE ISLAND . . . . .	7	15	-	7	127
CONNECTICUT . . . . .	26	9	29	26	356
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	79	74	42	79	1,330
MIDDLE ATLANTIC:					
NEW YORK . . . . .	8	14	3	8	152
NEW JERSEY . . . . .	13	27	-	13	208
DELAWARE . . . . .	1	2	-	1	19
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	22	43	3	22	379
CHESAPEAKE, MARYLAND . . . . .	4	9	-	4	94
SOUTH ATLANTIC, NORTH CAROLINA . . . . .	20	40	-	20	320
GREAT LAKES 1/ . . . . .	2	9	-	2	27
PACIFIC, CALIFORNIA . . . . .	5	10	-	5	100
GRAND TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	130	176	45	130	2,223
AREA AND STATE	VESSEL FISHERY				
	VESSELS	FISHERMEN		OTTER TRAWLS	
		NUMBER	GROSS TONNAGE	NUMBER	YARDS AT MOUTH
NEW ENGLAND:					
MAINE . . . . .	73	7,090	332	73	1,668
MASSACHUSETTS . . . . .	401	29,871	2,477	401	10,807
RHODE ISLAND . . . . .	63	2,194	207	63	1,617
CONNECTICUT . . . . .	26	771	65	26	581
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	514	36,228	2,847	514	13,444
MIDDLE ATLANTIC:					
NEW YORK . . . . .	193	8,115	594	193	4,650
NEW JERSEY . . . . .	147	6,675	496	147	3,637
DELAWARE . . . . .	3	78	6	3	67
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	315	12,585	963	315	7,570
CHESAPEAKE:					
MARYLAND . . . . .	21	691	60	21	550
VIRGINIA . . . . .	63	4,024	260	63	1,683
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	79	4,463	300	79	2,116
SOUTH ATLANTIC, NORTH CAROLINA . . . . .	76	2,973	200	76	2,044
GULF:					
FLORIDA, WEST COAST . . .	3	128	9	3	87
MISSISSIPPI . . . . .	82	2,982	197	109	1,995
LOUISIANA . . . . .	7	255	17	11	186
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	92	3,395	223	123	2,268
PACIFIC:					
ALASKA . . . . .	2	126	8	2	30
WASHINGTON . . . . .	109	5,161	402	109	2,403
OREGON . . . . .	54	2,653	199	54	1,215
CALIFORNIA . . . . .	67	2,848	253	67	1,809
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	220	10,152	816	220	5,197
GREAT LAKES 2/ . . . . .	20	531	46	20	408
GRAND TOTAL, EXCLUSIVE OF DUPLICATION	1,163	60,980	4,743	1,194	28,992

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# REVIEW OF CERTAIN MAJOR FISHERIES

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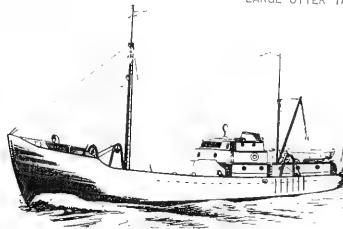
## SUMMARY OF FISH OTTER TRAWL OPERATING UNITS, 1964 - Continued

AREA AND STATE	TOTAL (BOAT AND VESSEL FISHERY)			
	BOATS AND VESSELS	FISHERMEN	OTTER TRAWLS	
NEW ENGLAND:				
MAINE . . . . .	113	388	113	2,467
MASSACHUSETTS . . . . .	405	2,484	405	10,875
RHODE ISLAND . . . . .	70	222	70	1,744
CONNECTICUT . . . . .	54	103	54	937
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	593	2,963	593	14,774
MIDDLE ATLANTIC:				
NEW YORK . . . . .	201	611	201	4,802
NEW JERSEY . . . . .	160	523	160	3,845
DELAWARE . . . . .	4	8	4	86
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	337	1,009	337	7,949
CHESAPEAKE:				
MARYLAND . . . . .	25	69	25	644
VIRGINIA . . . . .	63	260	63	1,663
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	83	309	83	2,210
SOUTH ATLANTIC, NORTH CAROLINA . . . . .	95	240	96	2,364
GULF:				
FLORIDA, WEST COAST . . .	3	9	3	87
MISSISSIPPI . . . . .	82	197	109	1,995
LOUISIANA . . . . .	7	17	11	186
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	92	223	123	2,268
PACIFIC:				
ALASKA . . . . .	2	6	2	30
WASHINGTON . . . . .	109	402	109	2,403
OREGON . . . . .	54	199	54	1,215
CALIFORNIA . . . . .	72	263	72	1,909
TOTAL, EXCLUSIVE OF DUPLICATION . . . . .	225	816	225	5,297
GREAT LAKES 2/ . . . . .	20	46	20	408
GRAND TOTAL, EXCLU- SIVE OF DUPLICATION	1,446	5,606	1,477	35,270

<sup>1/</sup> OPERATED IN LAKE WINNEBAGO, WHICH DRAINS INTO THE MISSISSIPPI RIVER.

<sup>2/</sup> INCLUDES 4 VESSELS OPERATED IN LAKE WINNEBAGO.

LARGE OTTER TRAWLER



# SECTION 13

## 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:

	Published in Statistical Digest	Revised and updated in Statistical Digest
	<u>Number</u>	<u>Number</u>
Menhaden Fishery, 1873-1951 . . . . .	30	58
Oyster Fishery, 1880-1952 . . . . .	34	58
Pacific Sardine Fishery, 1915-53. . . . .	36	58
Atlantic Ocean Perch Fishery, 1930-54. . . . .	39	58
Pacific Herring Fishery, 1881-1955 . . . . .	41	58
United States Haddock Fishery, 1880-1956 . . . . .	43	-
United States Tuna Fishery, 1911-57. . . . .	44	58
United States Atlantic Cod Fishery, 1893-1958 . . . . .	49	-
Fur Seal Industry of the Pribilof Islands, 1786-1959 . .	51	-
Eastern Pacific Halibut Fishery, 1888-1960 . . . . .	53	-
California Mackerel Fisheries, 1889-1961 . . . . .	54	-
Atlantic Mackerel Fishery, 1804-1962 . . . . .	56	-
Commercial Fisheries of the Great Lakes, 1879-1963 .	57	-
Potomac River Alewife Fishery, 1896-1964; Hudson River and Potomac River Shad Fishery, 1896-1964 . .	58	-

The following pages include historical data on the Potomac River Alewife Fishery and the Hudson River and Potomac River Shad Fishery followed by revised data as shown in the above table.

# HISTORICAL FISHERY STATISTICS

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## POTOMAC RIVER ALEWIFE FISHERY, 1896-1964

YEAR	MARYLAND			VIRGINIA			TOTAL		
	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE
1896 1/ . . . .	-	-	-	-	-	-	24,437,685	9,775,154	\$39,003
1899 . . . . .	4,863,000	1,953,200	\$10,369	24,601,040	9,840,416	\$42,654	29,484,040	11,793,616	53,223
1915 . . . . .	335,000	134,000	1,420	7,275,428	2,910,571	30,741	7,511,428	3,044,571	32,161
1919 . . . . .	1,468,583	772,867	15,508	7,379,319	2,904,054	45,508	8,867,902	3,676,921	61,016
1920 . . . . .	1,077,775	538,868	13,940	7,681,561	3,813,780	41,197	8,759,336	4,352,668	55,137
1921 . . . . .	1,395,000	558,000	9,010	8,906,510	3,563,404	35,031	10,303,510	4,121,404	44,041
1922 . . . . .	1,292,500	517,000	3,700	10,074,500	4,029,800	34,642	11,367,000	4,546,800	38,342
1923 . . . . .	2,119,787	847,916	8,764	9,308,782	3,722,912	40,657	11,428,559	4,570,828	49,421
1924 . . . . .	1,834,000	733,600	6,055	13,299,388	5,319,156	49,667	15,133,388	6,052,756	56,552
1925 . . . . .	415,000	166,000	2,070	7,420,360	2,968,152	35,271	7,835,380	3,134,152	37,341
1926 . . . . .	1,295,020	518,600	6,518	12,500,828	5,000,330	46,648	13,795,848	5,518,930	55,366
1927 . . . . .	1,272,000	508,699	5,741	10,355,057	4,136,666	44,647	11,006,067	4,643,365	50,568
1928 . . . . .	1,601,475	720,590	9,555	12,982,160	5,182,472	48,792	14,783,555	5,003,062	56,297
1929 . . . . .	684,000	353,600	7,075	6,627,030	2,730,612	47,641	7,711,030	3,084,412	54,916
1930 . . . . .	837,000	334,800	5,618	6,948,300	2,780,118	43,497	7,785,300	3,114,918	49,315
1931 . . . . .	977,750	391,100	3,851	17,403,100	5,961,240	51,609	16,380,650	7,352,340	55,460
1932 . . . . .	1,211,000	484,400	2,512	15,689,533	6,360,213	21,529	17,109,533	6,844,613	24,041
1933 . . . . .	1,220,810	488,324	2,347	16,018,040	6,407,216	21,498	17,238,850	6,895,540	23,845
1934 . . . . .	52,000	20,600	470	5,016,840	2,007,600	15,765	5,070,840	2,026,400	16,256
1935 . . . . .	555,750	222,300	2,738	10,587,000	4,234,800	23,912	11,142,750	4,741,400	26,650
1936 . . . . .	395,250	158,500	1,527	10,890,750	4,356,300	35,125	11,287,000	5,517,600	36,674
1937 . . . . .	519,750	207,900	1,803	7,087,500	2,617,300	27,325	9,377,000	3,025,200	29,443
1938 . . . . .	975,500	386,200	3,797	8,272,250	5,309,000	33,193	9,248,000	3,695,200	36,990
1939 . . . . .	398,080	136,600	1,662	9,652,500	3,055,000	30,630	10,001,380	3,201,600	32,312
1940 . . . . .	402,600	161,000	1,834	6,729,750	2,691,900	28,226	7,132,350	2,852,900	30,060
1941 . . . . .	367,400	145,950	1,504	8,468,450	3,387,760	26,426	8,835,650	3,534,760	27,930
1942 . . . . .	492,250	196,900	2,604	6,209,800	2,064,100	33,849	6,702,050	2,261,000	36,453
1944 . . . . .	329,400	164,700	3,625	11,534,800	5,767,400	34,347	11,864,200	5,932,100	118,972
1945 . . . . .	251,000	145,500	4,470	8,432,600	4,216,300	30,585	8,723,600	3,801,800	110,182
1946 . . . . .	367,200	166,000	5,037	22,892,800	3,344,200	105,158	5,562,000	3,512,800	102,345
1947 . . . . .	369,770	186,000	5,883	21,393,600	10,390,200	207,964	21,773,370	10,584,200	216,647
1948 . . . . .	399,800	199,900	4,536	19,416,200	9,415,300	192,521	19,816,700	9,609,200	197,057
1949 . . . . .	573,900	273,600	5,767	21,695,200	11,116,600	179,330	22,471,100	11,390,400	165,097
1950 . . . . .	369,890	183,100	2,749	26,096,500	11,618,300	175,119	26,486,390	11,801,400	177,866
1951 . . . . .	432,100	199,700	3,361	31,172,300	14,522,700	195,375	31,604,400	14,722,400	193,736
1952 . . . . .	82,300	39,500	56	24,590,950	11,708,400	177,273	24,673,250	11,747,900	177,836
1953 . . . . .	95,370	48,400	891	22,924,200	11,205,800	177,270	23,022,200	12,255,200	176,161
1954 . . . . .	225,800	112,100	2,363	20,960,900	13,119,600	195,700	13,200,200	16,920,200	169,928
1955 . . . . .	74,000	37,050	761	22,072,800	9,017,200	90,850	22,146,100	9,049,150	91,116
1956 . . . . .	117,000	52,500	1,797	19,416,300	3,365,200	138,379	19,533,300	9,444,700	140,045
1957 . . . . .	113,497	54,200	1,797	18,983,200	9,118,300	132,161	19,096,697	9,172,500	132,978
1958 . . . . .	147,580	73,600	1,476	19,500,600	9,799,300	123,163	19,048,180	8,873,100	124,639
1959 . . . . .	84,492	42,200	645	16,398,000	7,289,100	109,548	16,482,492	7,331,300	110,393
1960 . . . . .	85,664	42,900	643	12,927,850	5,745,700	86,479	13,013,514	5,788,600	87,122
1961 . . . . .	50,095	21,500	301	14,516,400	6,213,400	105,702	14,566,495	6,234,900	107,003
1962 . . . . .	19,070	6,200	132	25,594,685	11,005,400	217,200	25,613,900	10,013,600	217,340
1963 . . . . .	19,135	9,200	159	16,965,665	6,026,600	126,360	16,965,005	6,027,800	135,499
1964 . . . . .	66,200	26,800	521	18,723,975	8,140,100	136,859	18,792,181	8,174,900	139,500

1/ DATA FOR THE TWO STATES NOT ENUMERATED SEPARATELY.

# HISTORICAL FISHERY STATISTICS

## HUDSON RIVER SHAD FISHERY, 1896-1964

YEAR	NEW YORK			NEW JERSEY			TOTAL		
	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE
1896 . . . . .	420,098	1,681,371	\$58,921	168,800	675,595	\$24,316	588,698	2,356,966	\$83,237
1897 . . . . .	404,877	1,506,142	49,353	115,200	529,920	17,934	520,077	2,036,062	67,287
1898 . . . . .	410,395	1,534,877	50,875	129,855	606,423	16,510	540,250	2,141,300	69,385
1901 . . . . .	829,612	3,202,302	100,762	144,351	577,260	21,647	973,927	3,779,562	122,409
1904 . . . . .	100,624	402,496	28,896	57,657	201,600	17,758	158,281	604,296	46,654
1910 . . . . .	126,534	506,136	51,711	101,726	406,880	49,109	228,254	913,016	100,923
1915 . . . . .	11,466	46,344	5,319	4,259	20,104	2,674	15,855	68,668	8,543
1916 . . . . .	7,767	32,223	4,540	1,500	2,250	9,267	40,773	5,165	5,165
1917 . . . . .	10,615	38,344	4,810	1,400	5,040	720	12,115	12,384	5,900
1918 . . . . .	63,404	220,602	44,764	3,999	14,000	3,400	67,403	234,602	49,184
1919 . . . . .	78,501	301,306	60,690	13,800	73,668	23,034	90,301	374,974	83,724
1920 . . . . .	39,692	157,715	43,882	9,623	42,129	12,427	49,315	199,844	56,309
1921 . . . . .	28,948	104,883	24,329	6,500	25,920	6,294	35,448	130,803	30,623
1922 . . . . .	36,111	120,324	27,451	12,225	46,862	12,255	48,336	175,186	39,706
1923 . . . . .	26,633	97,863	22,644	6,450	23,865	6,000	35,066	121,728	26,644
1924 . . . . .	22,814	72,161	17,619	5,980	21,650	5,485	28,794	94,369	23,104
1925 . . . . .	30,616	101,359	24,200	4,300	24,975	4,240	38,668	124,334	25,430
1926 . . . . .	73,312	219,183	47,175	11,150	46,237	6,300	64,522	265,420	47,175
1927 . . . . .	89,984	299,693	56,050	20,300	50,062	6,700	110,284	309,555	63,600
1928 . . . . .	61,079	194,181	32,689	17,950	52,050	10,460	79,029	246,231	43,149
1929 . . . . .	45,980	157,895	25,801	10,500	38,850	4,882	56,490	196,745	30,663
1930 . . . . .	49,241	165,004	27,688	12,200	41,500	5,684	61,441	206,504	33,372
1931 . . . . .	104,043	342,611	40,840	21,900	72,000	8,941	125,943	414,611	49,781
1932 . . . . .	121,358	397,754	40,087	38,000	132,000	10,762	159,358	529,754	50,849
1933 . . . . .	105,287	347,656	26,156	49,150	171,024	12,573	154,437	516,680	40,729
1934 . . . . .	105,098	314,200	24,764	35,360	123,600	11,310	141,458	438,000	36,074
1935 . . . . .	143,977	453,301	36,151	116,003	394,100	32,485	259,980	487,400	47,000
1936 . . . . .	304,474	1,044,400	52,266	393,531	1,616,500	117,300	571,315	2,487,900	170,567
1937 . . . . .	292,790	976,000	73,191	556,400	1,650,200	100,595	876,000	2,732,200	217,786
1938 . . . . .	291,650	972,500	53,989	420,149	1,494,300	118,486	711,799	2,977,000	172,475
1939 . . . . .	464,655	1,516,400	66,319	518,511	1,754,300	98,943	983,166	3,270,700	165,252
1940 . . . . .	405,805	1,297,700	66,703	524,466	1,816,700	116,074	930,272	3,114,400	182,777
1941 . . . . .	415,137	1,341,000	91,041	518,421	1,792,500	107,589	933,558	3,133,500	198,630
1942 . . . . .	444,255	1,294,800	76,025	581,944	1,891,100	128,963	1,025,199	3,185,100	204,988
1943 . . . . .	593,621	1,640,000	155,803	527,616	1,585,350	201,556	1,121,437	3,225,350	357,356
1944 . . . . .	549,600	1,651,200	90,445	642,521	1,186,200	134,536	1,192,121	3,609,400	224,980
1945 . . . . .	695,998	2,091,100	275,962	1,305(1)	1,305,900	228,161	3,477,200	504,123	459,984
1946 . . . . .	463,900	1,404,900	210,900	437,589	1,525,243	240,638	920,889	2,972,143	229,974
1947 . . . . .	257,749	957,400	95,527	282,121	1,036,392	72,574	539,870	1,981,789	229,974
1948 . . . . .	372,584	1,121,600	146,679	339,013	1,232,600	185,967	711,597	2,404,400	332,546
1949 . . . . .	220,559	748,800	113,395	274,543	978,570	173,120	495,102	1,727,370	286,515
1950 . . . . .	124,740	413,600	62,012	180,408	595,300	116,137	305,148	1,008,900	180,149
1951 . . . . .	122,648	413,400	62,675	104,375	350,700	85,690	227,223	764,100	148,365
1952 . . . . .	149,210	487,600	59,150	176,636	589,500	87,552	327,846	1,077,100	146,702
1953 . . . . .	140,570	465,000	62,744	120,464	473,722	92,744	261,040	936,722	155,468
1954 . . . . .	179,612	584,560	67,682	168,794	646,704	96,936	346,406	1,249,282	164,818
1955 . . . . .	164,208	579,444	48,500	318,096	1,041,432	109,426	482,299	1,681,160	153,222
1956 . . . . .	138,682	424,205	42,605	205,475	1,029,457	82,574	437,777	1,777,200	138,779
1957 . . . . .	128,148	433,463	41,218	120,421	612,202	73,934	257,559	1,044,212	116,252
1958 . . . . .	140,770	492,466	47,447	195,673	676,744	77,532	336,443	1,171,212	124,979
1959 . . . . .	80,379	273,936	38,407	128,475	449,636	69,693	208,855	723,572	108,100
1961 . . . . .	66,822	236,445	33,111	111,872	352,544	65,220	178,694	588,989	98,331
1962 . . . . .	66,020	218,149	28,348	83,360	309,531	49,525	149,380	527,680	77,873
1963 . . . . .	38,711	132,564	25,807	59,363	215,454	56,018	96,074	348,018	81,825
1964 . . . . .	25,068	78,084	16,993	28,455	103,781	20,720	53,523	181,865	37,713

1/ DATA NOT AVAILABLE.



# HISTORICAL FISHERY STATISTICS

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## POTOMAC RIVER SHAD FISHERY, 1896-1964

YEAR	MARYLAND			VIRGINIA			TOTAL		
	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE	NUMBER	POUNDS	VALUE
1896. . . . .	233,238	874,643	\$20,524	450,825	1,690,594	\$43,084	684,063	2,565,237	\$63,608
1901. . . . .	146,000	547,500	14,800	648,452	2,431,733	104,566	794,462	2,979,233	119,366
1904. . . . .	83,147	311,801	16,343	289,500	1,085,625	51,709	372,647	1,397,426	68,052
1909. . . . .	31,158	116,843	9,232	172,813	648,049	44,500	203,971	764,692	53,732
1915. . . . .	17,196	64,485	6,827	165,206	619,523	65,300	182,402	684,008	72,127
1919. . . . .	94,512	354,420	56,833	449,957	1,667,339	275,564	544,469	2,041,759	332,397
1920. . . . .	69,944	302,237	55,953	449,414	1,677,543	276,501	529,353	1,970,780	384,464
1921. . . . .	49,681	181,207	24,191	356,191	1,022,231	179	405,572	1,160,439	207,370
1922. . . . .	203,682	706,501	95,140	680,494	2,409,070	324,882	884,176	3,115,571	420,022
1923. . . . .	93,619	308,729	52,917	257,927	878,653	145,702	351,546	1,187,362	108,619
1924. . . . .	37,505	127,285	20,469	134,605	450,925	67,981	172,310	576,210	88,450
1925. . . . .	46,006	157,786	35,310	156,574	536,845	128,086	204,582	696,632	163,398
1926. . . . .	51,601	162,861	34,804	285,051	871,345	182,653	336,662	1,034,206	217,461
1927. . . . .	30,720	103,728	17,894	191,601	582,853	55,931	222,321	686,581	113,825
1928. . . . .	138,496	383,126	37,588	577,924	1,694,493	177,099	716,420	2,077,622	214,687
1929. . . . .	68,613	225,797	22,676	248,640	826,487	118,913	317,253	1,052,284	141,599
1930. . . . .	14,807	50,345	8,393	160,343	550,848	89,648	175,150	601,193	98,041
1931. . . . .	100,472	337,518	24,431	525,082	1,723,518	169,074	625,499	2,061,036	193,505
1932. . . . .	199,742	609,258	40,837	575,714	1,654,910	132,516	775,456	2,264,168	173,353
1933. . . . .	51,037	175,965	15,482	560,388	1,661,658	133,632	611,425	1,837,623	149,114
1934. . . . .	10,040	35,700	3,628	142,836	531,400	43,876	152,876	567,100	47,504
1935. . . . .	24,065	82,171	8,357	175,581	549,000	47,434	199,646	631,171	55,791
1936. . . . .	17,500	48,000	5,279	116,909	311,800	30,079	134,409	359,800	35,358
1937. . . . .	15,736	43,500	4,104	148,357	391,400	36,228	164,093	434,900	40,332
1938. . . . .	16,978	51,235	5,186	175,582	468,400	42,199	192,560	519,635	47,385
1939. . . . .	15,066	44,503	3,920	129,100	384,000	38,400	144,186	428,503	42,320
1940. . . . .	24,923	75,400	6,546	77,250	247,400	28,770	102,173	322,800	35,316
1941. . . . .	13,228	38,600	2,942	119,530	332,500	19,341	132,758	371,300	22,283
1942. . . . .	33,436	97,575	8,998	70,640	230,600	19,580	104,076	328,175	28,578
1944. . . . .	17,490	49,000	6,447	260,690	834,000	95,043	278,180	883,000	101,490
1945. . . . .	11,500	41,100	6,514	154,059	496,600	85,199	165,559	537,700	93,704
1946. . . . .	19,258	62,400	10,601	151,985	473,700	107,512	171,243	536,100	116,113
1947. . . . .	37,790	98,600	16,597	477,698	1,201,600	207,302	515,488	1,300,200	223,899
1948. . . . .	40,300	105,300	15,855	233,460	613,000	97,363	273,760	721,300	113,218
1949. . . . .	52,600	138,600	19,548	274,455	770,800	116,812	327,255	909,600	136,360
1950. . . . .	32,900	97,700	15,686	294,479	833,900	125,450	327,379	931,600	141,136
1951. . . . .	22,038	66,600	11,197	274,440	810,500	137,740	296,478	877,100	148,937
1952. . . . .	49,990	148,800	22,310	342,864	1,012,600	152,695	392,854	1,161,400	175,005
1953. . . . .	39,580	123,900	18,630	235,002	722,400	120,810	274,582	846,300	139,440
1954. . . . .	30,480	91,100	13,117	203,060	605,200	108,367	233,540	697,300	121,484
1955. . . . .	16,782	52,500	9,203	271,170	753,200	128,044	287,952	805,700	137,247
1956. . . . .	23,798	71,400	7,543	210,790	650,500	98,205	234,569	721,100	95,808
1957. . . . .	28,143	84,300	11,586	179,550	540,100	81,349	207,693	624,400	92,935
1958. . . . .	16,453	48,800	7,977	40,483	116,500	20,918	56,936	167,300	26,095
1959. . . . .	12,175	37,900	6,436	48,767	149,800	25,055	60,942	187,700	31,491
1960. . . . .	18,230	47,400	7,143	53,453	142,000	21,105	71,683	189,400	28,248
1961. . . . .	10,976	30,300	4,393	30,742	82,800	12,407	41,718	113,100	16,800
1962. . . . .	23,821	66,900	10,062	69,866	196,100	27,077	93,687	263,000	37,139
1963. . . . .	30,377	77,600	12,434	57,226	137,100	23,363	87,605	214,900	35,797
1964. . . . .	26,275	76,200	6,995	137,135	396,100	25,997	163,410	474,300	34,993

NOTE:--THE NUMBER OF SHAD TAKEN IN THE POTOMAC RIVER IN 1878 WAS 166,000; IN 1880, 552,672; IN 1889, 868,900; IN 1890, 731,453; AND IN 1891, 621,977.

# HISTORICAL FISHERY STATISTICS

## ATLANTIC AND GULF COASTS MENHADEN FISHERY

The menhaden is taken in greater quantities than any fish occurring off the Atlantic and Gulf Coasts of the United States. The Indians are known to have used menhaden for fertilizer before the settlement of North America by the white man. Colonists soon recognized the value of the fish for this purpose and the use of whole fish for fertilizer was continued into the nineteenth century. The production of menhaden oil is reported to have been undertaken in Rhode Island in 1812 and in Maine about 1850. Rapid growth of an industry for producing both menhaden scrap and oil occurred between 1865 and 1875. In recent years menhaden have been landed in greater volume than any other fish taken by U. S. fishermen. The total catch since the establishment of the United States has exceeded 64 billion pounds, more than the production of any other species. Nearly the entire catch of menhaden is now used in the manufacture of meal and solubles used for animal feeding, and oil used in the manufacture of margarine and a wide variety of industrial products and processes.

Data on the catch of menhaden and on the production of menhaden products are available for most of the years following 1872. Since menhaden are landed at relatively few plants, the collection of data on the catch and production of menhaden products is comparatively simple. It is therefore believed that the following data have a high degree of accuracy.

### SUMMARY OF THE MENHADEN FISHERY, 1873-1964

YEAR	PLANTS	FISH RECEIVED	DRY SCRAP AND MEAL		ACIDULATED SCRAP	
			THOUSAND POUNDS	TONS	VALUE	TONS
NUMBER						
1873	62	266,459	-	-	36,299	(1)
1874	64	330,228	-	-	50,976	(1)
1875	60	377,429	-	-	53,625	(1)
1876	64	343,342	-	-	51,245	(1)
1877	56	393,720	5,700	(1)	49,744	(1)
1878	55	514,451	19,377	(1)	64,492	(1)
1879	60	426,833	20,553	(1)	37,495	(1)
1880	79	520,506	25,800	(1)	19,020	(1)
1881	97	304,309	25,027	(1)	7,592	(1)
1882	97	232,248	17,552	(1)	10,029	(1)
1883	78	411,019	34,216	(1)	10,920	(1)
1884	52	575,257	58,433	(1)	10,430	(1)
1885	50	321,074	33,910	(1)	7,225	(1)
1886	26	189,681	14,597	(1)	4,298	(1)
1887	28	223,488	17,262	(1)	5,368	(1)
1888	24	294,391	15,638	(1)	12,406	(1)
1889	29	372,604	24,359	(1)	25,859	(1)
1890	26	341,570	20,339	(1)	21,173	(1)
1891	27	237,943	12,608	(1)	15,069	(1)
1892	29	149,828	8,400	(1)	10,815	(1)
1893	33	245,492	13,150	(1)	15,465	(1)
1894	44	357,352	20,057	(1)	27,582	(1)
1895	42	309,370	18,682	(1)	21,965	(1)
1896	35	268,955	14,280	(1)	21,484	(1)
1897	41	391,483	18,430	(1)	34,372	(1)
1898	40	363,475	17,360	(1)	34,120	(1)
1899	(1)	(1)	(1)	(1)	(1)	(1)
1900	(1)	(1)	(1)	(1)	(1)	(1)
1901 2/	35	609,744	36,977	\$909,505	48,653	\$630,305
1902	(1)	(1)	(1)	(1)	(1)	(1)
1903	(1)	(1)	(1)	(1)	(1)	(1)
1904	(1)	(1)	(1)	(1)	(1)	(1)
1905	(1)	(1)	(1)	(1)	(1)	(1)
1906	(1)	(1)	(1)	(1)	(1)	(1)
1907	(1)	(1)	(1)	(1)	(1)	(1)
1908	(1)	(1)	(1)	(1)	(1)	(1)
1909	(1)	(1)	(1)	(1)	(1)	(1)
1910	(1)	(1)	(1)	(1)	(1)	(1)
1911	(1)	(1)	(1)	(1)	(1)	(1)
1912	49	3,711,435	50,865	1,532,994	37,635	605,711
1913	(1)	(1)	(1)	(1)	(1)	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# HISTORICAL FISHERY STATISTICS

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## SUMMARY OF THE MENHADEN FISHERY, 1873-1964 - Continued

YEAR	PLANTS	FISH RECEIVED	DRY SCRAP AND MEAL		ACQUAMULATED SCRAP	
			THOUSAND POUNDS	TONS	VALUE	TONS
1914	{1}	{1}	{1}	{1}	{1}	{1}
1915	{1}	{1}	{1}	{1}	{1}	{1}
1916	{1}	{1}	{1}	{1}	{1}	{1}
1917	{1}	305,146	20,825	{1}	16,316	{1}
1918	{1}	359,292	16,017	{1}	33,187	{1}
1919	{1}	438,520	15,103	{1}	47,915	{1}
1920	{1}	{1}	{1}	{1}	{1}	{1}
1921	40	691,132	37,658	\$1,380,455	44,604	\$305,640
1922	45	812,342	67,621	2,655,441	25,755	556,317
1923	50	743,895	43,452	2,029,406	44,935	1,064,870
1924	45	344,284	21,008	996,666	24,409	495,684
1925	43	532,118	30,1 <sup>e</sup> 7	1,519,458	41,463	1,102,051
1926	41	382,781	24,2 <sup>e</sup> 3	1,184,396	23,553	548,204
1927	39	392,763	25,417	1,406,915	19,984	566,590
1928	34	362,213	24,681	1,453,651	20,026	531,238
1929	37	442,443	33,041	1,625,694	23,059	622,544
1930	33	409,513	32,418	1,629,717	15,725	395,295
1931	27	236,432	21,093	1,544,541	8,771	153,933
1932	24	357,479	35,444	833,689	6,641	72,892
1933	30	357,726	31,453	952,612	9,481	173,280
1934	27	517,403	37,935	1,247,697	22,051	381,559
1935	27	434,366	30,416	932,685	29,690	524,870
1936	29	516,104	42,411	1,411,710	23,482	359,615
1937	32	529,202	35,801	1,581,219	31,600	618,104
1938	32	517,530	39,274	1,576,620	21,814	418,936
1939	33	574,825	52,950	2,224,920	15,653	265,850
1940	30	634,589	56,249	2,423,229	15,520	271,533
1941	29	775,087	75,316	4,191,355	11,029	242,792
1942	30	482,244	50,504	3,352,279	2,594	60,020
1943	25	655,554	65,557	548,125	1,555	50,857
1944	27	685,360	69,170	4,913,224	2,922	111,104
1945	24	759,074	77,451	5,483,377	1,577	62,200
1946	28	916,013	94,622	8,605,118	2,022	78,475
1947	31	948,156	98,602	10,883,852	632	26,863
1948	31	1,007,889	104,058	11,560,914	(4)	(4)
1949	31	1,072,630	113,393	17,813,339	(4)	(4)
1950	35	1,000,498	103,365	12,864,751	(4)	(4)
1951	35	1,103,915	115,464	13,879,523	(4)	(4)
1952	40	1,366,281	114,025	17,847,361	(4)	(4)
1953	36	1,683,406	174,752	21,757,205	-	-
1954	34	1,607,009	170,200	20,750,534	-	-
1955	35	1,648,299	190,628	25,457,512	-	-
1956	39	2,076,568	210,582	27,439,634	-	-
1957	41	1,681,560	172,388	21,725,688	-	-
1958	38	1,544,683	158,074	20,698,929	-	-
1959	40	2,193,864	223,593	26,391,987	-	-
1960	38	1,999,036	218,423	19,201,716	-	-
1961	35	2,290,936	247,551	25,852,498	-	-
1962	33	2,227,316	239,707	26,249,566	-	-
1963	32	1,787,638	184,205	22,253,320	-	-
1964	31	1,530,631	160,349	20,001,220	-	-

YEAR	OIL			SOLUBLES			TOTAL
	GALLONS	POUNDS	VALUE	TONS	POUNDS	VALUE	
1873	2,214,800	16,611,000	(1)	-	-	-	(1)
1874	3,372,647	25,296,352	(1)	-	-	-	(1)
1875	2,681,482	20,111,115	(1)	-	-	-	(1)
1876	2,952,000	22,440,000	(1)	-	-	-	(1)
1877	2,128,389	18,193,416	(1)	-	-	-	(1)
1878	3,691,293	20,352,246	(1)	-	-	-	(1)
1879	2,259,901	16,341,758	(1)	-	-	-	(1)
1880	2,034,940	15,262,050	(1)	-	-	-	(1)
1881	1,266,549	9,499,118	(1)	-	-	-	(1)
1882	2,021,316	15,159,870	(1)	-	-	-	(1)
1883	2,166,320	16,247,400	(1)	-	-	-	(1)
1884	3,722,927	27,921,952	(1)	-	-	-	(1)
1885	2,346,319	17,597,392	(1)	-	-	-	(1)
1886	1,805,544	13,541,580	(1)	-	-	-	(1)
1887	2,273,566	17,051,745	(1)	-	-	-	(1)
1888	2,051,128	15,383,460	(1)	-	-	-	(1)
1889	3,300,930	24,945,255	(1)	-	-	-	(1)
1890	2,939,217	22,044,128	(1)	-	-	-	(1)
1891	1,946,642	14,599,815	(1)	-	-	-	(1)
1892	1,329,644	9,972,330	(1)	-	-	-	(1)
1893	1,259,002	9,517,515	(1)	-	-	-	(1)
1894	1,999,506	14,396,295	(1)	-	-	-	(1)
1895	1,767,754	13,258,155	(1)	-	-	-	(1)
1896	1,741,530	13,061,475	(1)	-	-	-	(1)
1897	2,147,113	16,103,348	(1)	-	-	-	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# HISTORICAL FISHERY STATISTICS

## SUMMARY OF THE MENHADEN FISHERY, 1873-1964 - Continued

YEAR	OIL			SOLUBLES			TOTAL
	GALLONS	POUNDS	VALUE	TONS	POUNDS	VALUE	
1898	2,450,000	18,375,000	{1}	-	-	-	{1}
1899	{1}	{1}	{1}	-	-	-	{1}
1900	{1}	{1}	{1}	-	-	-	{1}
1901 <sup>2/</sup>	3,812,335	28,592,512	\$933,679	-	-	-	\$2,473,489
1902	{1}	{1}	{1}	-	-	-	{1}
1903	{1}	{1}	{1}	-	-	-	{1}
1904	{1}	{1}	{1}	-	-	-	{1}
1905	{1}	{1}	{1}	-	-	-	{1}
1906	3,004,050	22,530,375	{1}	-	-	-	{1}
1907	1,243,800	9,328,500	{1}	-	-	-	{1}
1908	3,095,850	23,226,375	{1}	-	-	-	{1}
1909	3,015,800	22,516,300	{1}	-	-	-	{1}
1910	3,015,600	26,300,500	{1}	-	-	-	{1}
1911	3,974,250	29,305,875	{1}	-	-	-	{1}
1912	6,651,203	49,884,022	1,551,990	-	-	-	3,690,155
1913	4,768,050	35,760,375	{1}	-	-	-	{1}
1914	3,563,650	26,727,375	{1}	-	-	-	{1}
1915	2,727,750	20,458,125	{1}	-	-	-	{1}
1916	4,011,500	30,086,250	{1}	-	-	-	{1}
1917	3,619,700	27,147,750	{1}	-	-	-	{1}
1918	3,943,100	29,573,250	{1}	-	-	-	{1}
1919	5,415,600	40,617,000	{1}	-	-	-	{1}
1920	5,842,300	43,817,250	{1}	-	-	-	{1}
1921	6,260,478	46,953,585	1,715,592	-	-	-	4,005,987
1922	7,141,577	55,560,238	2,304,533	-	-	-	6,126,591
1923	7,461,365	55,960,238	3,161,277	-	-	-	6,535,553
1924	3,923,905	29,429,286	1,817,626	-	-	-	3,310,176
1925	6,023,108	45,173,310	3,001,106	-	-	-	5,622,615
1926	3,942,821	29,571,158	1,729,160	-	-	-	3,441,760
1927	3,957,068	29,678,010	1,716,474	-	-	-	3,699,979
1928	3,585,569	26,891,768	1,455,376	-	-	-	3,440,265
1929	3,172,735	23,795,512	1,381,616	-	-	-	3,530,054
1930	3,191,255	23,934,486	648,954	-	-	-	2,673,720
1931	1,981,790	14,653,425	302,308	-	-	-	1,140,242
1932	2,991,098	22,478,235	273,486	-	-	-	1,180,057
1933	3,344,442	25,565,572	455,970	-	-	-	1,585,862
1934	3,612,364	27,992,730	776,657	-	-	-	2,244,013
1935	4,066,159	30,496,192	1,178,337	-	-	-	2,630,892
1936	4,880,879	36,605,592	1,249,708	-	-	-	3,021,033
1937	3,895,613	29,217,098	1,456,333	-	-	-	3,655,656
1938	4,189,129	31,418,468	1,173,667	-	-	-	3,169,223
1939	6,005,414	45,040,605	1,624,024	-	-	-	4,114,794
1940	5,774,671	43,310,032	1,304,720	-	-	-	3,999,482
1941	6,034,050	45,255,375	2,829,441	-	-	-	7,080,588
1942	5,128,760	38,465,700	3,200,129	-	-	-	6,642,928
1943	5,734,668	43,010,010	3,871,539	-	-	-	8,478,421
1944	6,044,111	45,313,252	3,725,498	-	-	-	8,749,826
1945	6,395,094	62,519,205	5,565,550	-	-	-	11,222,777
1946	9,758,648	73,189,660	9,152,302	-	-	-	17,716,625
1947	8,473,371	63,550,282	11,425,497	-	-	-	22,336,212
1948	8,763,939	65,729,542	10,132,179	-	-	-	21,693,093
1949	8,293,911	62,204,332	3,407,510	-	-	-	21,220,849
1950	10,209,958	76,574,685	5,866,554	-	-	-	16,731,305
1951	12,537,115	94,028,362	9,771,154	-	-	-	23,650,677
1952	12,868,646	96,664,845	5,785,395	-	-	-	23,632,756
1953	17,824,477	133,683,578	8,806,317	39,038	76,076,523	\$3,592,551	34,165,073
1954	16,641,433	139,810,748	9,755,320	56,274	112,547,095	5,564,717	39,103,401
1955	21,232,441	155,241,124	12,195,454	61,938	123,876,901	4,396,642	42,049,608
1956	22,442,062	165,201,151	14,092,275	72,852	145,704,500	5,333,624	44,011,743
1957	15,671,919	148,460,293	9,180,198	6,039	135,600,027	5,151,400	26,807,756
1958	17,064,818	127,985,135	9,434,108	72,471	140,941,679	6,252,986	36,386,023
1959	20,628,279	154,712,085	10,743,781	108,079	216,158,510	5,852,514	42,988,282
1960	24,453,736	183,403,220	11,582,027	65,850	131,700,000	2,299,209	33,082,952
1961	31,355,570	235,166,775	12,913,447	73,305	146,610,000	3,142,397	41,908,342
1962	31,015,855	232,618,912	10,059,839	85,200	170,400,000	4,120,050	42,429,455
1963	21,630,273	167,634,616	9,853,302	74,831	149,662,000	4,485,957	36,602,579
1964	20,352,198	157,729,534	11,734,935	68,738	137,476,000	4,054,981	35,791,136

<sup>1/</sup> DATA NOT AVAILABLE. <sup>2/</sup> DATA FOR CONNECTICUT ARE FOR 1900, WHILE THOSE FOR RHODE ISLAND, NEW YORK, DELAWARE, AND NORTH CAROLINA ARE FOR 1902. <sup>3/</sup> IN ADDITION 5,096,000 MISCELLANEOUS FISH WERE UTILIZED; THIS INCLUDES 180,000 IN CONNECTICUT AND NEW YORK, 4,900,000 IN MARYLAND AND VIRGINIA, 16,000 IN NORTH CAROLINA AND FLORIDA.

A SMALL PRODUCTION ON ACIDULATED SCRAP HAS BEEN INCLUDED WITH DRY SCRAP AND MEAL.

NOTE: THE FACTOR 7.75 HAS BEEN USED TO CONVERT GALLONS OF OIL TO POUNDS FOR 1963 AND 1964; 7.5 HAS BEEN USED FOR PRIOR YEARS.

SOURCE:—DATA FOR 1873 TO 1898, AND 1901 ARE FROM "AQUATIC PRODUCTS IN ARTS AND INDUSTRIES," BY CHARLES H. STEVENSON, REPORT OF THE COMMISSIONER OF FISHERIES, 1902; FOR 1906 TO 1911, 1913, 1914, AND 1920 FROM INFORMATION ON FILE IN THE BUREAU'S BRANCH OF FISHERY STATISTICS, WHICH WAS SUPPLIED BY AN IMPORTANT MENHADEN PRODUCTS BROKER; FOR 1912, FROM "THE MENHADEN INDUSTRY OF THE ATLANTIC COAST," BY ROBERT LEON GREER, BUREAU OF FISHERIES DOCUMENT NO. 811; FOR 1913 TO 1919, FROM "CHEMICAL TECHNOLOGY AND ANALYSIS OF OILS, FATS AND WAXES," BY DR. J. LEWINSKICH, M.A., F.I.C., SIXTH EDITION, VOL. 11; FOR 1921 TO 1938, "FISHERY INDUSTRIES OF THE UNITED STATES,"; FOR 1939 TO 1954, "FISHERY STATISTICS OF THE UNITED STATES,"; AND UNPUBLISHED BUREAU RECORDS.

FOR THE YEARS FOLLOWING 1920, INFORMATION COLLECTED IN THE SERVICE'S ANNUAL INDUSTRIAL FISHERIES SURVEYS HAS BEEN USED RATHER THAN THE SLIGHTLY MORE COMPLETE INFORMATION ASSEMBLED IN THE GENERAL CANVASS SURVEYS OF THE ATLANTIC AND GULF STATES SINCE RELATIVELY FEW COMPLETE GENERAL CANVASS SURVEYS WERE MADE FOR ALL AREAS DURING THIS PERIOD.

# HISTORICAL FISHERY STATISTICS

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## SUMMARY OF MENHADEN PURSE SEINE OPERATING UNITS, 1951<sup>1/</sup>

ITEM	NEW ENGLAND					
	MAINE	MASSACHUSETTS	RHODE ISLAND	TOTAL, EXCLUSIVE OF DUPLICATION		
FISHERMEN, ON VESSELS . . . . .	NUMBER 28	NUMBER 22	NUMBER 7	NUMBER 29		
VESSELS, MOTOR . . . . .	1	1	2	3		
GROSS TONNAGE . . . . .	140	140	26	166		
BOATS . . . . .	3	3	2	5		
PURSE SEINES:						
NUMBER . . . . .	1	1	2	3		
LENGTH, YARDS . . . . .	250	375	420	795		
ITEM	MIDDLE ATLANTIC					
	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION		
FISHERMEN, ON VESSELS . . . . .	NUMBER 251	NUMBER 360	NUMBER 585	NUMBER 1,171		
VESSELS, MOTOR . . . . .	9	14	23	45		
GROSS TONNAGE . . . . .	2,499	2,738	4,218	9,232		
BOATS . . . . .	27	42	69	135		
PURSE SEINES:						
NUMBER . . . . .	9	14	23	45		
LENGTH, YARDS . . . . .	3,600	4,697	7,400	15,364		
ITEM	CHESAPEAKE	SOUTH ATLANTIC				
	VIRGINIA	NORTH CAROLINA	SOUTH CAROLINA	FLORIDA, EAST COAST		
FISHERMEN, ON VESSELS . . . . .	NUMBER 537	NUMBER 914	NUMBER 198	NUMBER 165	NUMBER 1,027	
VESSELS, MOTOR . . . . .	20	47	11	8	52	
GROSS TONNAGE . . . . .	4,110	7,170	2,194	978	7,804	
BOATS . . . . .	60	141	33	24	156	
PURSE SEINES:						
NUMBER . . . . .	20	47	11	8	52	
LENGTH, YARDS . . . . .	7,500	18,525	4,400	3,200	20,550	
ITEM	GULF				GRAND TOTAL, EXCLU- SIVE OF DUPLI- CATION	
	FLORIDA, WEST COAST	MISSIS- SIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION	
FISHERMEN, ON VESSELS . . . . .	NUMBER 42	NUMBER 632	NUMBER 642	NUMBER 184	NUMBER 1,334	NUMBER 3,597
VESSELS, MOTOR . . . . .	2	29	31	9	63	159
GROSS TONNAGE . . . . .	150	3,743	3,684	1,147	7,819	25,162
BOATS . . . . .	6	87	93	27	186	470
PURSE SEINES:						
NUMBER . . . . .	2	29	31	9	63	159
LENGTH, YARDS . . . . .	750	10,900	11,789	3,550	23,989	59,890

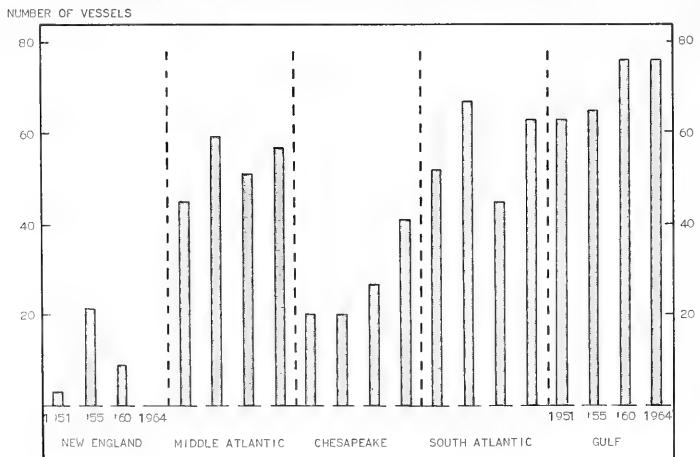
1/ REVISED

# HISTORICAL FISHERY STATISTICS

## SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1951

GROSS TONNAGE	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF	TOTAL, EX- CLUSIVELY OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
0 - 9.	1	-	-	-	-	1
10 - 19.	1	-	-	-	-	1
20 - 29.	-	-	-	2	-	2
30 - 39.	-	-	-	2	-	2
40 - 49.	-	-	-	1	-	1
50 - 59.	-	-	-	1	5	6
60 - 69.	-	-	-	5	5	8
70 - 79.	-	-	-	3	6	9
80 - 89.	-	-	1	-	-	-
90 - 99.	-	-	1	-	-	-
100 - 109.	-	-	-	2	6	9
110 - 119.	-	1	-	4	11	13
120 - 129.	-	-	-	5	4	9
130 - 139.	-	-	1	3	4	7
140 - 149.	1	2	2	2	7	13
150 - 159.	-	3	1	3	4	8
160 - 169.	-	1	1	1	5	7
170 - 179.	-	1	-	4	-	4
180 - 189.	-	4	3	4	1	8
190 - 199.	-	19	2	5	1	22
220 - 229.	-	4	1	1	-	5
230 - 239.	-	-	1	-	1	2
240 - 249.	-	1	2	2	-	-
250 - 259.	-	-	1	1	1	3
260 - 269.	-	-	3	1	-	5
280 - 289.	-	2	1	1	-	2
290 - 299.	-	1	1	-	-	2
300 - 309.	-	2	-	-	-	2
320 - 329.	-	1	-	-	-	1
340 - 349.	1	-	-	-	-	1
350 - 359.	-	-	-	1	-	1
TOTAL VESSELS. . . . .	3	45	20	52	63	159
TOTAL GROSS TONNAGE. .	166	9,232	4,110	7,804	7,819	25,162

### NUMBER OF MENHADEN PURSE SEINE VESSELS



# HISTORICAL FISHERY STATISTICS

457

## LENGTH DISTRIBUTION OF THE MENHADEN FLEET, 1951

LENGTH IN FEET	NEW	MIDDLE	CHESAPEAKE	SOUTH	GULF	TOTAL, EX- CLUSIVELY OF DUPLICATION
	ENGLAND	ATLANTIC	NUMBER	ATLANTIC	NUMBER	
37.	-	-	1	-	-	1
38.	-	-	1	-	-	1
44.	-	-	-	-	1	1
57.	-	-	-	-	-	1
59.	-	-	-	-	1	1
60.	-	-	-	1	-	1
67.	-	-	-	1	-	1
69.	-	-	-	-	6	6
70.	-	-	-	-	-	1
71.	-	-	-	-	-	1
72.	-	-	-	-	2	2
74.	-	-	-	-	-	1
75.	-	-	-	-	-	1
76.	-	-	-	-	1	1
77.	-	-	-	-	-	1
78.	-	-	-	-	2	2
79.	-	-	-	-	1	1
80.	-	-	-	-	-	2
81.	-	-	-	-	-	1
82.	-	-	-	-	5	5
85.	-	-	-	-	1	1
86.	-	-	-	-	1	1
87.	-	-	-	-	1	1
89.	1	-	1	-	-	2
90.	-	-	-	-	-	5
91.	-	-	-	-	1	1
93.	-	-	2	-	1	2
94.	-	-	-	-	2	2
95.	-	-	1	-	3	3
96.	-	-	-	-	1	1
97.	-	-	2	-	2	3
99.	-	-	-	-	1	1
101.	-	-	-	-	-	1
103.	-	-	1	-	-	2
104.	-	-	-	-	1	2
105.	-	-	1	-	-	2
106.	-	-	-	2	2	2
107.	-	-	-	-	1	1
108.	-	-	-	-	1	1
109.	-	-	1	-	-	1
112.	-	-	-	-	1	2
113.	-	-	1	-	1	2
116.	-	-	1	2	-	2
117.	-	-	1	-	2	1
118.	-	-	1	-	-	2
120.	-	-	-	2	2	5
121.	-	-	5	2	4	2
122.	-	-	1	2	-	2
124.	-	-	1	2	1	3
125.	-	-	3	2	6	11
126.	-	-	1	1	1	3
127.	-	-	1	2	-	2
128.	-	-	2	1	-	4
129.	-	-	1	1	-	2
130.	-	-	7	1	-	8
132.	-	-	-	-	-	1
133.	-	-	-	-	-	1
134.	-	-	3	-	-	3
139.	-	-	2	-	-	2
140.	-	-	1	-	-	1
146.	-	-	4	-	1	5
150.	-	-	-	1	-	1
TOTAL.	3	45	20	52	63	159

## HISTORICAL FISHERY STATISTICS

## AGE DISTRIBUTION OF THE MENHADEN FLEET, 1951

YEAR BUILT	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
1674.	-	1	-	-	-	1
1676.	-	1	-	1	-	1
1677.	-	1	1	-	-	2
1692.	-	-	1	-	-	1
1693.	-	-	1	-	-	1
1697.	-	-	-	1	-	1
1699.	-	-	1	-	-	1
1700.	-	1	-	-	-	1
1701.	-	1	2	-	-	2
1702.	-	2	2	-	1	4
1703.	-	2	-	1	-	2
1704.	-	-	1	-	-	1
1705.	-	-	-	1	-	1
1706.	-	1	1	-	-	1
1709.	-	-	1	-	-	1
1710.	-	1	-	1	-	2
1711.	-	3	1	1	-	4
1712.	-	-	2	-	-	2
1713.	-	1	-	-	-	1
1714.	-	1	-	-	-	1
1717.	-	-	-	1	-	1
1718.	-	1	-	2	1	3
1719.	-	2	2	-	2	6
1720.	-	1	-	1	-	1
1722.	-	1	-	-	-	1
1723.	-	2	1	3	1	6
1724.	-	-	-	2	-	2
1725.	-	-	-	1	1	2
1726.	-	-	-	1	-	1
1730.	-	1	-	2	1	4
1733.	-	-	-	1	1	1
1734.	-	-	-	1	1	1
1736.	-	1	-	-	1	2
1937.	-	1	-	-	1	1
1938.	-	1	-	1	-	1
1940.	-	-	1	-	-	1
1941.	-	1	1	2	4	7
1942.	-	1	1	7	9	15
1943.	-	3	1	9	22	11
1945.	-	-	-	1	1	3
1946.	-	-	-	-	6	6
1947.	-	1	-	-	6	7
1948.	-	2	-	4	8	13
1949.	-	7	-	3	8	15
1950.	-	4	-	2	5	10
1951.	-	3	-	-	1	4
TOTAL . . . . .	3	45	20	52	63	159

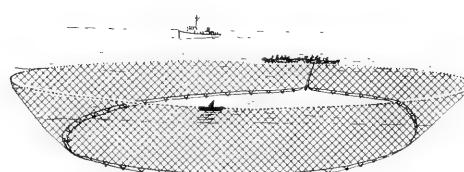
# HISTORICAL FISHERY STATISTICS

459

## SUMMARY OF MENHADEN PURSE SEINE OPERATING UNITS, 1952 <sup>1/</sup>

ITEM	NEW ENGLAND			MIDDLE ATLANTIC			TOTAL, EXCLUSIVE OF DUPLICA- TION
	MASSACHU- SETTS	RHODE ISLAND	TOTAL, EXCLU- SIVE OF DUPLI- CATION	NEW YORK	NEW JERSEY	DELAWARE	
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS . . . . .	42	26	68	252	562	462	1,251
VESSELS, MOTOR . . . . .	2	4	6	9	21	18	47
GROSS TONNAGE . . . . .	270	136	406	2,520	3,975	3,627	9,699
BOATS . . . . .	6	5	11	27	63	54	141
PURSE SEINES:							
NUMBER . . . . .	2	4	6	9	21	18	47
LENGTH, YARDS . . . . .	750	1,020	1,770	3,600	6,780	5,800	15,860
	CHESAPEAKE			SOUTH ATLANTIC			
ITEM	VIRGINIA	NORTH CAROLINA		SOUTH CAROLINA	FLORIDA, EAST COAST		TOTAL, EXCLUSIVE OF DUPLICA- TION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
FISHERMEN, ON VESSELS . . . . .	517	1,020	160	210	1,129		
VESSELS, MOTOR . . . . .	18	50	9	10	55		
GROSS TONNAGE . . . . .	3,715	8,082	1,879	1,238	8,727		
BOATS . . . . .	54	150	27	30	165		
PURSE SEINES:							
NUMBER . . . . .	18	50	9	10	55		
LENGTH, YARDS . . . . .	6,750	19,500	3,600	4,000	21,500		
	GULF					GRAND TOTAL, EXCLU- SIVE OF DUPLI- CATION	
ITEM	FLORIDA, WEST COAST	MISSIS- SIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICA- TION		
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
FISHERMEN, ON VESSELS . . . . .	108	704	702	175	1,483	3,810	
VESSELS, MOTOR . . . . .	6	31	33	8	68	167	
GROSS TONNAGE . . . . .	456	4,278	4,190	1,031	8,752	26,695	
BOATS . . . . .	18	93	99	24	204	494	
PURSE SEINES:							
NUMBER . . . . .	6	31	33	8	68	167	
LENGTH, YARDS . . . . .	2,175	11,425	12,800	3,175	25,825	61,070	

<sup>1/</sup> REVISED.



Menhaden purse seine

# HISTORICAL FISHERY STATISTICS

## SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1952 1/

GROSS TONNAGE	NEW ENGLAND	MIDDLE ATLANTIC	CHESA- PEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
10 - 19	1	-	-	-	-	1
20 - 29	1	-	-	2	-	3
30 - 39	-	-	-	2	-	2
40 - 49	1	-	-	-	-	1
50 - 59	1	-	-	-	-	1
60 - 69	-	-	-	1	2	3
70 - 79	-	-	-	1	4	5
80 - 89	-	-	-	2	2	4
90 - 99	-	1	-	2	6	9
100 - 109	-	-	-	2	9	11
110 - 119	-	1	-	3	9	11
120 - 129	-	-	1	5	4	9
130 - 139	1	-	1	2	4	6
140 - 149	1	-	2	3	10	15
150 - 159	-	3	-	3	6	9
160 - 169	-	1	1	-	1	0
170 - 179	-	5	-	7	1	8
180 - 189	-	4	3	4	1	6
190 - 199	-	19	2	7	1	22
220 - 229	-	3	1	1	-	5
230 - 239	-	-	1	-	1	2
240 - 249	-	2	1	2	-	5
250 - 259	-	-	1	1	1	3
260 - 269	-	-	3	2	-	5
280 - 289	-	2	-	2	-	2
290 - 299	-	-	1	-	-	1
300 - 309	-	2	-	-	-	2
310 - 319	-	1	-	-	-	1
320 - 329	-	1	-	-	-	1
340 - 349	-	1	-	-	-	1
350 - 359	-	1	-	1	-	2
TOTAL VESSELS	6	47	18	55	68	167
TOTAL GROSS TONNAGE	406	9,899	3,715	8,727	8,752	26,695

1/ REVISED.

## SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY HORSEPOWER, 1952 1/

HORSEPOWER	NEW ENGLAND	MIDDLE ATLANTIC	CHESA- PEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
50 - 99	-	-	-	2	1	3
100 - 149	1	-	-	5	4	10
150 - 199	1	-	-	1	10	12
200 - 249	1	3	-	8	9	18
250 - 299	-	2	1	1	5	8
300 - 349	-	6	4	4	14	25
350 - 399	-	2	1	-	2	5
400 - 449	2	3	1	9	5	14
450 - 499	-	3	1	-	-	5
500 - 599	1	7	5	8	15	31
600 - 699	-	7	1	5	1	9
700 - 799	-	-	1	-	-	1
800 - 899	-	13	2	2	-	15
1000 - 1499	-	1	1	6	1	9
1500 - OVER	-	-	-	1	-	1
TOTAL	6	47	18	55	68	167

1/ REVISED.

# HISTORICAL FISHERY STATISTICS

461

## LENGTH DISTRIBUTION OF THE MENHADEN FLEET, 1952

1/

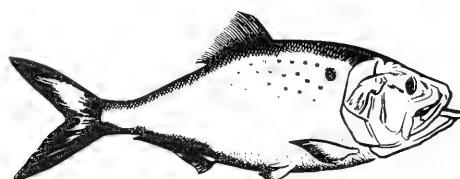
LENGTH IN FEET	NEW ENGLAND	MIDDLE ATLANTIC	CHESA- PEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
43	1	-	-	1	-	1
44	-	-	-	1	-	1
51	-	-	-	1	-	1
54	1	-	-	1	-	1
57	1	-	-	1	-	2
58	1	-	-	-	-	1
60	-	-	-	-	-	1
67	-	-	-	1	1	2
69	-	-	-	-	4	4
70	-	-	-	-	1	1
71	-	-	-	-	1	1
72	-	-	-	-	2	2
74	-	-	-	-	2	2
75	-	-	-	-	2	2
76	-	-	-	-	1	1
77	-	-	-	1	-	1
78	-	-	-	-	1	1
80	-	-	-	-	2	2
81	-	-	-	-	1	1
82	-	-	-	-	3	3
85	-	-	-	-	1	1
86	-	-	-	1	1	2
87	-	-	-	-	1	1
88	-	-	-	-	2	2
89	2	-	1	-	3	5
90	-	-	-	1	1	2
91	-	1	-	1	1	2
93	-	-	-	1	2	2
94	-	-	-	-	3	3
95	-	-	-	-	1	1
96	-	-	-	-	1	1
97	-	1	-	3	3	4
99	-	-	-	-	1	1
100	-	-	-	-	1	1
101	-	1	-	-	1	2
103	-	-	-	-	1	1
104	-	-	-	-	1	1
105	-	-	-	1	1	4
106	-	-	-	3	4	5
107	-	-	-	2	2	4
108	-	-	-	-	1	1
109	-	2	-	-	1	1
110	-	-	-	-	1	1
111	-	-	-	-	1	1
112	-	1	-	-	1	1
113	-	-	1	-	1	3
116	-	1	1	-	-	-
118	-	1	-	2	-	1
120	-	5	2	5	4	8
121	-	-	-	-	-	5
122	-	-	2	-	-	2
124	-	1	2	1	-	3
125	-	2	2	6	1	10
126	-	1	1	1	-	3
127	-	2	2	-	-	4
128	-	2	-	-	-	2
129	-	1	1	1	-	1
130	-	7	1	-	-	8
132	-	-	1	-	-	1
133	-	1	-	1	-	1
134	-	3	-	-	-	3
139	-	2	-	-	-	2
140	-	1	-	-	-	1
143	-	1	-	-	-	1
146	-	3	1	1	-	4
150	-	1	1	-	-	2
TOTAL	6	47	16	55	68	167

1/ REVISED.

## HISTORICAL FISHERY STATISTICS

AGE DISTRIBUTION OF THE MENHADEN FLEET, 1952 <sup>1/</sup>

YEAR BUILT	NEW ENGLAND	MIDDLE ATLANTIC	CHESA- PEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
1874 . . .	-	1	-	-	-	1
1877 . . .	-	1	1	-	-	2
1879 . . .	-	-	-	-	1	1
1892 . . .	-	-	1	-	-	1
1893 . . .	1	-	-	-	-	1
1897 . . .	-	-	-	1	-	1
1899 . . .	-	-	1	-	-	1
1901 . . .	-	-	2	-	-	2
1902 . . .	-	1	2	1	-	4
1903 . . .	-	2	-	2	-	2
1904 . . .	-	-	1	-	-	1
1905 . . .	-	-	-	1	-	1
1908 . . .	-	-	1	-	-	1
1909 . . .	1	1	-	-	-	2
1910 . . .	-	1	-	-	-	1
1911 . . .	-	3	1	2	-	4
1912 . . .	-	1	2	-	-	3
1913 . . .	-	-	-	1	-	1
1914 . . .	-	1	-	-	-	1
1915 . . .	-	-	-	1	-	1
1918 . . .	-	-	-	2	-	4
1919 . . .	-	2	2	-	-	4
1920 . . .	-	2	-	1	-	2
1922 . . .	-	1	-	-	-	1
1923 . . .	-	2	1	1	1	5
1924 . . .	-	-	-	2	-	2
1925 . . .	-	-	-	1	1	2
1926 . . .	-	-	-	1	-	1
1930 . . .	-	1	-	2	1	4
1933 . . .	-	-	-	1	-	1
1935 . . .	-	-	-	-	1	1
1936 . . .	-	-	-	-	3	4
1937 . . .	-	1	-	1	2	3
1938 . . .	-	1	-	1	2	3
1939 . . .	-	-	-	-	1	1
1940 . . .	-	-	1	-	1	2
1941 . . .	1	-	1	3	4	7
1942 . . .	1	-	-	7	8	14
1943 . . .	-	1	1	9	2	11
1944 . . .	-	-	-	-	2	2
1945 . . .	1	-	-	1	1	3
1946 . . .	-	-	-	-	5	5
1947 . . .	-	-	-	1	9	10
1948 . . .	-	4	-	4	5	10
1949 . . .	-	10	-	6	7	17
1950 . . .	-	4	-	2	4	9
1951 . . .	-	3	-	-	1	4
1952 . . .	2	-	-	-	1	3
TOTAL . . .	6	47	18	55	68	167

<sup>1/</sup> REVISED.

MENHADEN

# HISTORICAL FISHERY STATISTICS

463

## SUMMARY OF MENHADEN PURSE SEINE OPERATING UNITS, 1955 <sup>1/</sup>

ITEM	NEW ENGLAND			
	MAINE	MASSACHUSETTS	RHODE ISLAND	TOTAL, EXCLUSIVE OF DUPLICATION
FISHERMEN, ON VESSELS. . . . .	NUMBER 5	NUMBER 175	NUMBER 62	NUMBER 234
VESSELS, MOTOR . . . . .	1	13	8	21
GROSS TONNAGE . . . . .	17	943	301	1,208
BOATS. . . . .	2	27	16	43
PURSE SEINES:				
NUMBER . . . . .	1	13	8	21
LENGTH, YARDS. . . . .	350	5,840	2,430	8,320
ITEM	MIDDLE ATLANTIC			
	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION
FISHERMEN, ON VESSELS. . . . .	NUMBER 308	NUMBER 668	NUMBER 622	NUMBER 1,598
VESSELS, MOTOR . . . . .	11	25	23	59
GROSS TONNAGE . . . . .	2,673	4,364	4,363	11,600
BOATS. . . . .	33	75	69	127
PURSE SEINES:				
NUMBER . . . . .	11	25	23	59
LENGTH, YARDS. . . . .	4,400	8,520	8,030	20,950
ITEM	SOUTH ATLANTIC			
	CHESAPEAKE	NORTH CAROLINA	SOUTH CAROLINA	FLORIDA, EAST COAST
FISHERMEN, ON VESSELS. . . . .	NUMBER 579	NUMBER 1,212	NUMBER 220	NUMBER 404
VESSELS, MOTOR . . . . .	20	57	10	18
GROSS TONNAGE . . . . .	3,794	10,469	1,817	2,372
BOATS. . . . .	60	171	30	54
PURSE SEINES:				
NUMBER . . . . .	20	57	10	18
LENGTH, YARDS . . . . .	7,425	22,800	4,000	7,200
ITEM	GULF			
	FLORIDA, WEST COAST	MISSISSIPPI	LOUISIANA	TEXAS
FISHERMEN, ON VESSELS. . . . .	NUMBER 75	NUMBER 369	NUMBER 882	NUMBER 286
VESSELS, MOTOR . . . . .	3	17	37	13
GROSS TONNAGE . . . . .	512	2,586	5,469	1,669
BOATS. . . . .	9	51	111	39
PURSE SEINES:				
NUMBER . . . . .	3	17	37	13
LENGTH, YARDS . . . . .	1,200	6,400	14,693	4,818
				NUMBER 1,500
				NUMBER 4,735
				NUMBER 65
				NUMBER 9,442
				NUMBER 195
				NUMBER 32,164
				NUMBER 593
				NUMBER 65
				NUMBER 25,219
				NUMBER 78,774

<sup>1/</sup> REVISED.

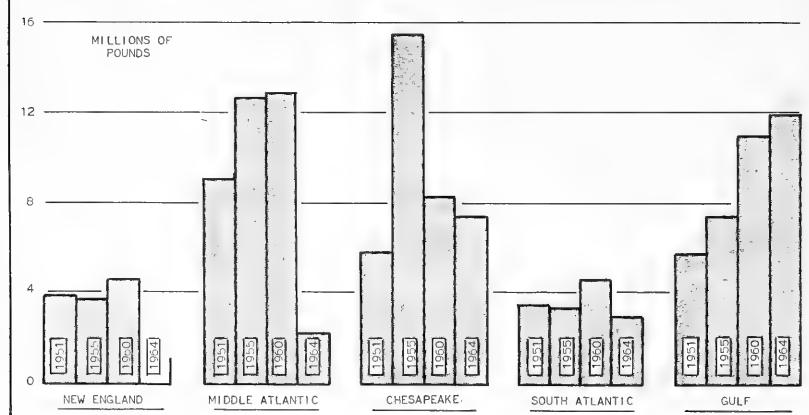


# HISTORICAL FISHERY STATISTICS

## SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1955

GROSS TONNAGE	NEW	MIDDLE	CHESAPEAKE	SOUTH	GULF	TOTAL, EX-
	ENGLAND	ATLANTIC	NUMBER	NUMBER	NUMBER	CLUSIVE OF DUPLICATION
10 - 19*	3	-	-	-	-	3
20 - 29*	2	1	-	-	-	5
30 - 39*	2	1	-	2	-	5
40 - 49*	2	-	-	-	-	2
50 - 59*	2	-	1	2	-	5
60 - 69*	4	-	1	3	-	7
70 - 79*	3	-	-	2	1	6
90 - 99*	-	-	-	1	2	3
100 - 109*	-	1	-	1	-	8
110 - 119*	2	2	-	2	7	12
120 - 129*	-	-	1	4	4	9
130 - 139*	1	-	-	3	5	9
140 - 149*	-	3	3	4	15	24
150 - 159*	-	1	1	4	4	10
160 - 169*	-	2	1	-	9	12
170 - 179*	-	6	-	4	-	7
180 - 189*	-	4	3	4	4	12
190 - 199*	-	22	3	13	4	31
200 - 209*	-	1	-	3	1	2
220 - 229*	-	4	-	-	1	1
230 - 239*	-	-	1	-	-	2
240 - 249*	-	1	2	1	-	6
250 - 259*	-	-	-	2	1	2
260 - 269*	-	1	2	4	1	6
280 - 289*	-	2	-	3	-	3
290 - 299*	-	1	-	-	-	1
300 - 309*	-	2	-	-	-	2
310 - 319*	-	1	-	-	-	1
320 - 329*	-	1	-	-	-	1
340 - 349*	-	1	-	-	-	1
TOTAL VESSELS . . . . .	21	59	20	67	65	204
TOTAL GROSS TONNAGE . . .	1,208	11,600	3,794	11,661	9,442	32,164

### AVERAGE CATCH PER MENHADEN PURSE SEINE VESSEL



## LENGTH DISTRIBUTION OF THE MENHADEN FLEET, 1955

LENGTH IN FEET	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF	TOTAL, EX- CLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
39.	1	-	-	-	-	1
41.	-	1	-	-	-	1
44.	1	-	-	-	-	1
47.	1	-	-	-	-	1
50.	-	1	-	-	-	1
53.	1	-	-	-	-	1
55.	1	-	-	-	-	1
56.	1	-	-	1	-	2
57.	1	-	-	-	-	1
58.	1	-	-	1	-	2
60.	-	1	-	1	-	2
61.	1	1	-	-	-	2
64.	1	-	-	3	-	3
67.	-	-	-	1	-	1
74.	-	-	1	-	1	2
75.	-	1	-	-	-	1
76.	-	1	-	-	-	1
78.	-	1	-	-	-	1
80.	3	-	-	-	-	2
81.	1	-	-	-	-	1
82.	-	-	-	-	2	2
83.	-	-	-	-	-	1
85.	-	-	-	1	-	1
86.	-	-	-	-	3	3
87.	-	-	-	-	1	1
88.	-	-	1	-	-	1
89.	1	-	-	-	2	2
90.	-	-	-	2	4	6
91.	-	-	-	-	1	1
92.	-	-	-	1	-	1
93.	-	-	-	1	-	1
94.	-	-	-	2	2	4
95.	-	-	-	1	-	1
96.	-	-	-	2	2	4
97.	-	-	-	-	1	1
99.	-	-	-	-	-	1
100.	-	-	-	-	-	1
101.	-	-	1	-	-	1
103.	-	2	1	-	1	2
104.	-	-	1	-	2	2
105.	-	-	1	-	3	3
106.	-	-	1	-	2	2
107.	-	-	2	1	1	4
108.	-	-	1	3	3	6
109.	-	-	-	1	1	1
110.	-	-	-	1	1	1
112.	-	-	1	-	2	3
113.	-	-	-	1	1	1
114.	-	-	-	-	1	1
115.	-	-	-	2	-	2
116.	-	-	1	2	2	1
117.	-	-	1	2	2	1
118.	-	5	2	2	3	8
120.	-	5	1	2	4	6
121.	-	-	1	-	2	2
122.	-	-	2	2	2	5
124.	-	2	1	1	3	12
125.	-	3	1	-	-	3
126.	-	2	1	-	-	3
127.	-	2	1	-	-	3
128.	-	1	2	-	-	1
129.	-	1	1	1	-	11
130.	-	10	1	1	-	11
132.	-	1	1	-	-	1
133.	-	1	-	2	-	4
134.	-	4	-	-	-	3
139.	-	2	-	-	-	4
140.	-	3	-	-	-	2
141.	-	-	-	-	1	4
142.	-	1	-	-	-	1
143.	-	-	-	-	1	1
144.	-	4	-	-	-	1
146.	-	-	1	-	-	1
150.	-	-	-	-	-	1
TOTAL.	21	59	20	67	65	204

## HISTORICAL FISHERY STATISTICS

## AGE DISTRIBUTION OF THE MENHADEN FLEET, 1955

YEAR BUILT	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
1874.	-	1	-	-	-	1
1876.	-	-	-	-	1	1
1877.	-	1	1	-	1	3
1879.	-	-	1	-	1	1
1892.	-	-	1	-	-	1
1893.	-	-	1	-	-	1
1894.	1	-	-	-	-	1
1897.	-	1	-	1	-	2
1899.	-	-	1	-	-	1
1900.	-	1	-	-	-	1
1901.	-	-	2	-	-	2
1902.	-	1	-	1	-	4
1903.	1	3	-	-	-	4
1904.	-	-	1	-	-	1
1905.	-	-	-	1	-	1
1906.	-	-	1	-	-	1
1909.	-	-	1	-	-	1
1910.	-	12	-	-	-	1
1911.	-	1	-	-	-	3
1912.	-	1	2	-	-	3
1913.	-	2	-	-	-	2
1914.	-	1	-	-	-	1
1917.	2	-	-	1	-	3
1918.	-	2	-	3	2	6
1919.	1	2	2	1	-	5
1920.	-	1	1	1	-	1
1921.	-	1	-	-	-	1
1922.	-	1	-	2	1	4
1923.	-	2	-	2	1	2
1924.	-	-	-	2	1	2
1925.	1	-	1	-	1	2
1930.	1	-	-	-	2	3
1933.	-	-	-	1	-	1
1935.	-	-	-	1	-	1
1936.	-	1	-	-	1	2
1937.	-	-	-	1	-	1
1938.	-	1	-	1	-	1
1939.	-	-	-	1	-	1
1940.	3	-	1	1	-	2
1941.	-	1	1	2	3	8
1942.	-	1	1	6	7	14
1943.	-	3	-	13	2	15
1944.	-	1	-	2	3	5
1945.	3	-	1	1	1	5
1946.	-	1	-	-	4	5
1947.	1	-	-	-	9	10
1948.	-	4	-	3	5	9
1949.	-	9	-	5	7	17
1950.	-	4	-	1	3	7
1951.	2	4	-	2	1	7
1952.	4	-	-	-	-	4
1953.	-	2	-	2	2	5
1954.	1	2	-	1	4	8
1955.	-	2	-	8	4	11
TOTAL . . . . .	21	59	20	67	65	204

# HISTORICAL FISHERY STATISTICS

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## SUMMARY OF MENHADEN PURSE SEINE OPERATING UNITS, 1957 <sup>1/</sup>

ITEM	NEW ENGLAND				
	MASSACHUSETTS	RHODE ISLAND	TOTAL, EXCLUSIVE OF DUPLICATION		
FISHERMEN, ON VESSELS . . .	NUMBER 245	NUMBER 64	NUMBER 277		
VESSELS, MOTOR . . . . .	16	6	20		
GROSS TONNAGE . . . . .	1,421	326	1,592		
BOATS . . . . .	32	12	40		
PURSE SEINES:					
NUMBER . . . . .	16	6	20		
LENGTH, YARDS . . . . .	8,025	2,325	9,325		
ITEM	MIDDLE ATLANTIC				
	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION	
FISHERMEN, ON VESSELS . . .	NUMBER 280	NUMBER 770	NUMBER 625	NUMBER 1,617	
VESSELS, MOTOR . . . . .	10	30	23	61	
GROSS TONNAGE . . . . .	2,704	5,372	4,423	12,059	
BOATS . . . . .	30	86	69	179	
PURSE SEINES:					
NUMBER . . . . .	10	30	23	61	
LENGTH, YARDS . . . . .	4,000	10,150	8,190	21,600	
ITEM	CHESAPEAKE	SOUTH ATLANTIC			
	VIRGINIA	NORTH CAROLINA	SOUTH CAROLINA	FLORIDA, EAST COAST	
FISHERMEN, ON VESSELS . . .	NUMBER 504	NUMBER 1,765	NUMBER 25	NUMBER 264	NUMBER 1,968
VESSELS, MOTOR . . . . .	24	70	1	12	80
GROSS TONNAGE . . . . .	4,829	14,577	115	1,821	15,999
BOATS . . . . .	72	210	3	34	239
PURSE SEINES:					
NUMBER . . . . .	24	70	1	12	80
LENGTH, YARDS . . . . .	8,860	28,000	400	4,800	32,000
ITEM	GULF				
	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION	
FISHERMEN, ON VESSELS . . .	NUMBER 806	NUMBER 926	NUMBER 358	NUMBER 1,863	NUMBER 5,167
VESSELS, MOTOR . . . . .	36	36	14	78	219
GROSS TONNAGE . . . . .	7,062	6,035	1,976	13,291	37,891
BOATS . . . . .	108	114	42	234	546
PURSE SEINES:					
NUMBER . . . . .	36	38	14	78	219
LENGTH, YARDS . . . . .	13,550	15,000	5,996	30,738	86,631

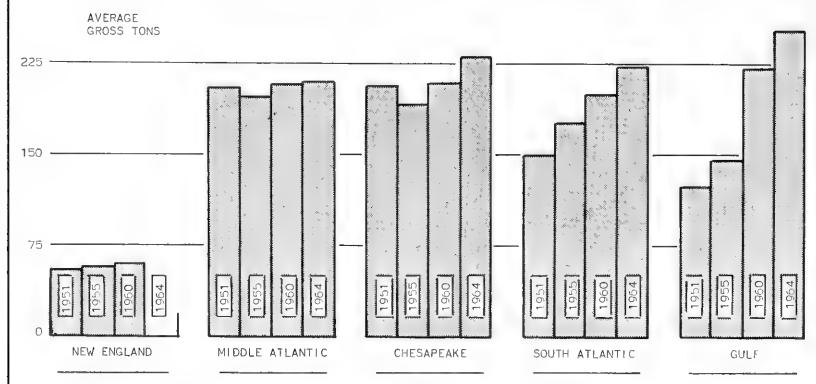
<sup>1/</sup> REVISED.

# HISTORICAL FISHERY STATISTICS

## SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1957

GROSS TONNAGE	NEW	MIDDLE	CHESAPEAKE	SOUTH	GULF	TOTAL, EX-
	ENGLAND	ATLANTIC	NUMBER	ATLANTIC	NUMBER	CLUSIVE OF
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	DUPLICATION
0 - 9.	-	-	1	-	-	1
20 - 29.	-	2	1	-	-	3
30 - 39.	-	-	-	1	-	1
40 - 49.	-	3	1	-	-	5
50 - 59.	-	2	-	2	-	4
60 - 69.	-	2	-	2	1	5
70 - 79.	-	4	-	1	-	5
80 - 89.	-	1	-	-	-	1
90 - 99.	-	-	-	1	1	2
100 - 109.	-	-	1	-	-	-
110 - 119.	-	2	1	4	5	6
120 - 129.	-	1	-	3	5	10
130 - 139.	-	2	-	2	3	8
140 - 149.	-	-	2	4	3	12
150 - 159.	-	1	-	4	15	23
160 - 169.	-	-	1	1	6	10
170 - 179.	-	-	1	4	4	11
180 - 189.	-	-	6	5	6	16
190 - 199.	-	-	4	2	8	38
200 - 209.	-	-	27	13	-	-
220 - 229.	-	-	-	-	-	1
230 - 239.	-	-	-	-	-	10
240 - 249.	-	-	-	-	-	3
250 - 259.	-	-	-	-	-	7
260 - 269.	-	-	-	-	-	1
280 - 289.	-	-	-	-	-	8
290 - 299.	-	-	-	-	-	3
300 - 309.	-	-	-	-	-	2
310 - 319.	-	-	-	-	-	1
340 - 349.	-	-	-	-	-	1
390 - 399.	-	-	-	-	-	1
600 - 609.	-	-	-	-	-	1
610 - 619.	-	-	-	-	-	1
TOTAL VESSELS	20	62	24	80	79	219
TOTAL GROSS TONNAGE.	1,592	1,268	4,829	15,999	13,481	37,691

### AVERAGE GROSS TONS PER MENHADEN PURSE SEINE VESSEL



# HISTORICAL FISHERY STATISTICS

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## LENGTH DISTRIBUTION OF THE MENHADEN FLEET, 1957

LENGTH IN FEET	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF	TOTAL, EX- CLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
35.	-	1	-	-	-	1
41.	-	1	-	-	-	1
52.	-	1	-	-	-	1
53.	-	1	-	-	-	1
55.	-	1	-	-	-	1
56.	-	1	-	-	-	1
57.	-	1	-	-	-	1
58.	-	1	-	-	-	1
60.	-	1	-	1	-	1
61.	1	-	-	1	-	2
64.	-	1	-	1	-	2
65.	-	1	-	2	-	3
67.	-	1	-	-	-	1
69.	1	-	-	-	-	1
71.	1	-	-	-	1	1
74.	-	1	-	-	-	1
75.	-	1	-	-	-	1
77.	-	1	-	1	-	1
78.	1	-	-	-	-	1
80.	3	-	-	-	-	2
81.	1	-	-	-	-	1
84.	1	-	-	-	-	1
85.	-	1	-	1	-	2
86.	-	1	-	-	-	1
87.	-	1	-	-	-	1
88.	1	-	-	-	-	1
89.	1	1	1	-	-	2
90.	1	-	-	2	-	4
91.	-	1	-	1	-	1
92.	1	-	-	1	-	2
93.	-	1	-	-	-	1
94.	-	1	-	2	-	4
95.	-	1	-	2	-	1
97.	-	1	-	1	-	1
99.	-	1	-	-	-	1
100.	-	1	-	1	-	2
101.	-	1	-	-	-	1
103.	-	2	-	-	-	1
104.	-	1	-	-	-	1
105.	-	1	-	1	1	10
106.	-	1	-	2	2	7
107.	-	1	-	2	2	4
108.	-	1	-	-	-	1
109.	-	1	-	-	-	1
110.	-	1	-	-	-	1
111.	-	1	-	-	-	1
112.	-	1	-	1	-	2
113.	-	-	1	-	-	1
114.	-	-	1	-	-	1
115.	-	-	2	-	-	2
116.	-	1	2	-	-	1
117.	-	-	1	-	-	1
118.	-	1	1	-	-	1
120.	-	5	2	-	-	7
121.	-	6	2	-	-	4
122.	-	3	2	-	-	5
124.	-	3	1	-	-	6
125.	-	2	1	-	-	1
126.	-	3	1	-	-	3
127.	-	3	1	-	-	1
128.	-	1	2	-	-	2
129.	-	1	1	2	-	1
130.	-	11	1	-	-	12
132.	-	-	1	-	-	1
133.	-	1	-	-	-	1
134.	-	3	-	2	-	3
135.	-	-	-	1	-	1
136.	-	-	-	1	-	1
140.	-	4	-	4	-	5
141.	-	1	-	1	-	2
142.	-	1	-	2	-	4
143.	-	1	-	-	-	1
146.	-	3	1	-	-	4
150.	-	-	1	-	-	1
193.	-	-	-	1	-	1
194.	-	-	-	1	-	1
TOTAL . . . . .	20	62	24	80	79	219

## HISTORICAL FISHERY STATISTICS

## AGE DISTRIBUTION OF THE MENHADEN FLEET, 1957

YEAR BUILT	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF	TOTAL, EXCLUSIVE OF DUPLI- CATION
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
1874	-	1	-	-	-	1
1876	-	-	-	-	1	1
1877	-	-	1	-	1	2
1879	-	-	-	-	1	1
1892	-	-	1	1	-	1
1893	-	-	1	-	-	1
1897	-	-	1	-	-	1
1899	-	-	1	-	-	1
1900	-	-	1	-	-	1
1901	-	-	2	1	-	2
1902	-	1	2	1	-	4
1903	-	3	-	-	-	3
1904	-	-	1	1	-	1
1906	-	-	1	-	-	1
1909	-	-	1	-	-	1
1910	-	1	-	-	-	1
1911	-	2	1	2	-	3
1912	-	1	2	-	-	3
1913	-	1	-	-	-	1
1914	-	1	-	-	-	1
1917	2	-	-	1	-	3
1918	-	2	-	2	1	5
1919	1	1	2	-	-	4
1920	-	1	-	1	-	1
1922	-	1	-	-	-	2
1923	-	1	1	2	-	1
1924	-	-	-	1	-	1
1925	-	-	-	-	1	1
1926	1	-	-	-	-	1
1927	-	1	-	1	-	1
1930	-	2	1	2	-	5
1933	-	-	-	1	-	1
1935	-	-	1	1	-	2
1936	-	-	1	1	-	2
1937	-	-	1	1	-	1
1938	-	-	1	1	-	1
1939	-	-	-	-	-	1
1940	1	-	1	1	-	2
1941	4	-	1	2	1	7
1942	-	1	1	6	9	16
1943	-	4	1	14	2	16
1944	2	1	-	-	4	10
1945	2	1	-	1	5	4
1946	-	1	-	-	7	6
1947	1	1	-	3	5	9
1948	-	4	-	4	6	9
1949	-	10	-	-	4	16
1950	-	4	-	2	3	7
1951	1	4	-	2	1	6
1952	2	-	-	1	-	3
1953	-	2	-	2	2	5
1954	1	2	-	1	6	9
1955	-	2	-	5	5	12
1956	-	2	-	2	7	10
1957	-	1	-	4	7	8
TOTAL	20	62	24	80	79	219

# HISTORICAL FISHERY STATISTICS

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## SUMMARY OF OYSTER CATCH, BY SPECIES, 1921-64

(THOUSANDS OF POUNDS)

YEAR	EASTERN				
	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF
QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1921.....	(1)	26,420	(1)	(1)	(1)
1922.....	(1)	(1)	(1)	(1)	(1)
1923.....	(1)	(1)	(1)	2/7,892	2/11,668
1924.....	478	(1)	(1)	(1)	(1)
1925.....	(1)	(1)	48,383	(1)	(1)
1926.....	(1)	24,926	(1)	(1)	(1)
1927.....	(1)	(1)	(1)	2/6,705	2/17,002
1928.....	4,616	(1)	(1)	2/7,071	2/16,169
1929.....	5,957	29,214	33,138	2/6,404	2/14,605
1930.....	9,432	21,516	36,724	5,895	12,688
1931.....	4,066	21,546	32,311	4,691	10,185
1932.....	7,386	15,026	27,690	4,601	11,149
1933.....	5,157	13,933	25,153	(1)	(1)
1934.....	(1)	(1)	35,785	5,271	13,356
1935.....	10,004	14,611	20,300	(1)	(1)
1936.....	(1)	(1)	30,314	6,384	14,246
1937.....	11,416	14,617	31,716	5,454	24,184
1938.....	8,638	16,144	33,412	3,645	16,036
1939.....	7,805	11,653	36,847	3,333	24,380
1940.....	5,991	13,984	37,457	3,366	17,584
1941.....	(1)	(1)	35,439	(1)	(1)
1942.....	2,856	12,106	28,722	(1)	(1)
1943.....	2,808	12,677	(1)	(1)	(1)
1944.....	1,856	13,125	29,847	(1)	(1)
1945.....	2,470	13,553	32,570	2,822	13,970
1946.....	2,050	(1)	33,355	(1)	(1)
1947.....	2,125	15,744	33,730	(1)	(1)
1948.....	1,652	15,790	34,403	(1)	(1)
1949.....	4,003	17,412	31,777	(1)	13,121
1950.....	4,727	18,170	29,954	3,033	12,292
1951.....	1,970	17,410	29,598	3,783	11,519
1952.....	2,209	16,757	34,418	4,111	14,637
1953.....	1,038	14,452	36,946	4,019	12,836
1954.....	735	13,377	41,587	3,811	11,443
1955.....	619	9,848	39,227	2,260	13,661
1956.....	506	8,466	37,064	3,656	13,513
1957.....	405	7,951	34,234	3,659	14,307
1958.....	270	4,296	37,530	2,691	10,406
1959.....	387	1,922	33,322	2,516	12,721
1960.....	500	1,154	27,111	4,119	16,098
1961.....	453	1,921	27,500	3,984	18,240
1962.....	294	2,362	19,939	3,850	18,838
1963.....	452	951	18,274	4,837	24,139
1964.....	195	1,356	22,098	3,527	23,385
YEAR	EASTERN - CONT INUED		PACIFIC	WESTERN	GRAND TOTAL
	WASHINGTON AND CALIFORNIA	TOTAL	WASHINGTON, OREGON, AND CALIFORNIA	WASHINGTON, OREGON, AND CALIFORNIA	
QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1921.....	(1)	(1)	(1)	(1)	(1)
1922.....	120	(1)	35	566	(1)
1923.....	114	(1)	10	696	(1)
1924.....	89	(1)	16	662	(1)
1925.....	67	(1)	28	673	(1)
1926.....	81	(1)	60	701	(1)
1927.....	169	(1)	{1}	618	(1)
1928.....	146	(1)	(1)	619	(1)
1929.....	53	89,371	66	627	80,664
1930.....	75	86,330	228	316	86,974
1931.....	172	72,971	1,034	205	74,210
1932.....	42	61,094	2,103	270	68,467
1933.....	60	(1)	2,843	226	(1)
1934.....	90	(1)	4,956	330	(1)
1935.....	65	(1)	5,527	338	(1)
1936.....	60	(1)	6,377	317	(1)
1937.....	68	87,455	7,891	281	95,627
1938.....	48	77,923	8,734	275	86,932
1939.....	24	84,042	8,716	247	93,005
1940.....	18	78,400	10,720	227	89,383
1941.....	18	(1)	12,513	260	(1)
1942.....	12	(1)	10,526	240	(1)
1943.....	12	(1)	7,791	175	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# HISTORICAL FISHERY STATISTICS

## SUMMARY OF OYSTER CATCH, BY SPECIES, 1921-64 - Continued

YEAR	EASTERN - CONTINUED		PACIFIC	WESTERN	GRAND TOTAL
	WASHINGTON AND CALIFORNIA	TOTAL	WASHINGTON, OREGON, AND CALIFORNIA	WASHINGTON, OREGON, AND CALIFORNIA	
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	
1944.	14	(1)	6,700	159	(1)
1945.	9	65,403	10,074	151	75,628
1946.	12	(1)	13,371	169	(1)
1947.	19	(1)	11,320	146	(1)
1948.	48	(1)	9,564	154	(1)
1949.	7	(1)	8,164	203	(1)
1950.	16	68,192	8,000	143	76,415
1951.	25	64,305	8,597	68	72,990
1952.	23	72,165	9,957	120	82,242
1953.	18	69,319	10,283	117	79,719
1954.	18	70,971	10,855	96	81,922
1955.	20	65,855	11,602	58	77,515
1956.	20	63,225	11,881	27	75,133
1957.	17	60,013	11,614	31	71,658
1958.	4	55,165	11,197	34	66,396
1959.	1	52,339	12,328	43	64,710
1960.	(3)	48,982	10,983	45	60,010
1961.	15	52,113	10,154	38	62,305
1962.	14	45,577	10,714	26	56,037
1963.	14	48,667	9,746	31	58,444
1964.	5	50,566	9,934	34	60,534

1/ DATA NOT AVAILABLE.

2/ THE CATCH OF OYSTERS ON THE EAST COAST OF FLORIDA HAS BEEN INCLUDED WITH THE GULF DATA.

3/ LESS THAN 500 POUNDS.

## SUMMARY OF OYSTER CATCH, VARIOUS YEARS, 1929-64

YEAR	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE		SOUTH ATLANTIC	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1929.	5,957,262	\$1,204,383	29,213,705	\$5,505,293	33,138,400	\$4,254,285	6,404,204	\$391,164
1930.	9,431,968	1,747,100	21,516,320	4,076,864	36,723,800	\$4,351,917	5,893,739	322,527
1931.	4,066,363	820,487	21,546,401	2,764,913	32,310,800	2,784,210	4,690,762	187,349
1932.	7,386,432	1,202,327	15,026,476	1,763,506	27,889,600	2,015,435	4,600,974	137,337
1937.	11,415,400	1,550,023	14,617,400	2,370,546	31,715,700	2,300,624	5,454,200	251,207
1938.	8,637,300	1,554,150	16,144,100	2,696,183	33,412,300	2,369,669	3,644,700	189,069
1939.	7,805,500	1,563,432	11,653,900	1,778,714	36,846,600	2,729,917	3,333,200	160,602
1940.	5,990,200	1,091,224	13,983,200	2,181,905	37,457,100	3,217,247	3,366,600	162,378
1945.	2,478,100	1,062,912	13,553,300	5,351,626	32,569,900	11,621,078	2,821,800	644,383
1950.	4,710,000	1,061,155	18,161,600	9,508,735	29,953,900	11,094,472	3,033,500	981,961
1951.	1,969,500	1,152,523	17,410,000	9,708,411	29,592,900	11,968,671	3,782,900	1,201,951
1952.	2,209,300	1,053,965	16,767,000	9,115,404	34,172,600	11,599,973	4,129,600	1,242,600
1953.	1,037,700	615,390	14,461,600	7,344,569	36,944,900	14,726,665	4,021,100	1,024,699
1954.	734,700	481,172	13,375,900	7,497,323	41,587,800	16,660,250	3,809,900	1,025,626
1955.	618,500	490,094	9,848,600	5,281,607	39,227,500	17,802,245	2,261,100	676,983
1956.	505,300	437,119	8,464,800	4,807,370	37,064,100	16,692,542	3,556,400	1,049,188
1957.	402,700	376,787	7,981,600	5,026,454	34,233,900	17,191,788	3,066,100	883,634
1958.	274,400	318,850	4,295,900	3,379,391	37,530,400	20,793,964	2,650,900	765,707
1959.	386,100	453,628	1,390,900	1,256,314	33,321,100	20,608,422	3,517,300	1,040,034
1960.	498,400	623,345	1,153,400	1,184,834	27,110,100	19,309,172	4,119,700	1,552,278
1961.	450,200	547,281	1,141,000	2,020,686	27,500,100	21,734,499	3,984,500	1,779,670
1962.	294,100	370,501	2,362,900	2,562,691	19,937,300	15,956,201	3,848,900	1,724,669
1963.	453,000	533,034	950,300	1,156,511	16,274,300	13,726,271	4,837,300	2,019,630
1964.	194,400	326,176	1,355,900	1,366,431	22,097,900	15,605,701	3,526,900	1,507,982

YEAR	GULF		PACIFIC COAST		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1929.	14,604,653	\$1,280,976	745,560	\$417,976	90,063,784	\$13,324,077
1930.	12,687,737	1,093,580	618,869	372,749	86,874,433	11,964,737
1931.	10,684,689	607,031	1,411,458	361,348	74,210,482	7,525,338
1932.	11,149,036	574,095	2,414,851	281,426	68,467,369	5,974,126
1937.	24,184,200	1,443,504	6,239,900	767,548	95,626,600	6,703,454

(CONTINUED ON NEXT PAGE)

# HISTORICAL FISHERY STATISTICS

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## SUMMARY OF OYSTER CATCH, VARIOUS YEARS, 1929-64 - Continued

YEAR	GULF		PACIFIC COAST 1/		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1938.....	16,036,000	\$880,788	9,057,400	\$767,873	86,931,800	\$8,457,732
1939.....	24,379,500	1,279,979	8,987,800	681,669	93,006,500	8,190,333
1940.....	17,584,100	1,100,372	11,000,800	753,626	89,382,000	8,466,952
1945.....	13,969,600	4,601,243	10,234,600	1,863,928	75,627,300	25,145,170
1950.....	12,291,500	4,009,217	8,239,200	2,220,671	76,414,900	29,595,511
1951.....	11,513,000	3,161,228	8,709,600	1,993,484	72,989,600	29,059,768
1952.....	12,505,000	4,161,749	10,269,600	2,032,443	82,022,600	32,359,955
1953.....	12,635,000	3,560,936	10,411,400	1,874,601	79,717,700	29,029,300
1954.....	11,443,500	3,055,828	10,969,300	1,874,525	81,921,300	32,704,724
1955.....	13,880,900	3,740,393	11,681,400	2,483,151	77,518,000	30,474,473
1956.....	13,514,100	3,077,162	11,927,500	2,622,538	75,132,200	30,885,919
1957.....	14,306,000	3,691,401	11,661,900	2,235,202	71,654,200	29,405,264
1958.....	10,407,400	2,995,594	11,235,000	2,186,851	66,395,000	30,441,357
1959.....	13,722,300	3,806,707	12,371,700	2,318,994	64,709,400	29,484,099
1960.....	16,997,700	4,293,769	11,027,900	2,276,707	60,007,400	29,240,103
1961.....	16,236,700	5,124,827	10,206,600	2,020,224	62,303,500	33,204,167
1962.....	16,840,100	5,698,583	10,753,600	2,626,468	56,037,100	29,139,413
1963.....	24,138,100	7,186,320	9,789,600	2,482,030	58,442,600	27,105,996
1964.....	23,384,800	6,272,737	9,971,900	2,644,606	60,531,800	27,923,635

1/ EXCLUDING ALASKA.

## NEW ENGLAND OYSTER CATCH, VARIOUS YEARS, 1880-1964

YEAR	MAINE		MASSACHUSETTS		RHODE ISLAND	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1880.....	-	-	252,360	\$41,800	1,158,720	\$225,500
1887.....	-	-	302,712	64,116	1,377,613	281,026
1888.....	-	-	319,873	65,453	1,343,710	252,601
1889.....	-	-	259,236	65,538	1,444,558	271,939
1892.....	-	-	454,297	83,638	1,236,566	259,242
1898.....	-	-	709,587	156,235	3,247,384	505,378
1902.....	-	-	529,858	120,252	3,667,000	561,291
1903.....	-	-	739,186	207,775	5,632,200	974,240
1908.....	-	-	867,777	202,900	5,630,300	970,000
1910.....	-	-	1,669,172	313,019	1,131,790	1,306,391
1919.....	-	-	775,740	279,547	6,351,212	1,242,585
1924.....	-	-	532,010	267,811	2,620,596	458,364
1928.....	-	-	755,026	365,594	2,966,174	656,859
1929.....	-	-	379,850	178,311	2,360,118	518,763
1930.....	-	-	434,514	190,650	3,381,743	737,916
1931.....	-	-	268,767	119,588	2,415,265	539,662
1932.....	-	-	279,570	95,508	3,990,476	695,375
1933.....	-	-	180,609	60,037	3,117,763	432,992
1935.....	-	-	270,100	77,859	5,227,700	524,741
1937.....	-	-	207,000	76,103	4,300,200	570,000
1938.....	-	-	227,700	79,745	4,582,400	457,525
1939.....	-	-	269,600	123,152	2,313,500	399,072
1940.....	-	-	383,600	170,164	1,749,600	342,306
1942.....	-	-	350,000	176,416	1,170,300	292,925
1943.....	-	-	242,400	122,260	1,382,900	493,517
1944.....	-	-	190,300	97,456	804,700	476,104
1945.....	-	-	169,100	101,680	915,500	406,588
1946.....	-	-	205,600	184,347	983,900	468,267
1947.....	-	-	256,500	152,940	569,400	267,000
1948.....	-	-	229,300	146,767	906,500	502,477
1949.....	-	-	230,000	144,553	679,800	355,322
1950.....	-	-	226,000	130,893	922,000	429,240
1951.....	-	-	248,100	160,152	868,700	490,949
1952.....	-	-	295,600	150,214	633,600	373,264
1953.....	-	-	232,600	123,188	232,000	172,270
1954.....	5,700	\$4,075	174,100	108,656	112,000	91,576
1955.....	3,000	2,175	167,500	125,955	39,600	32,035
1956.....	-	-	226,000	201,743	31,000	24,533
1957.....	5,600	3,850	151,500	153,337	2,700	3,510
1958.....	3,300	2,256	112,500	137,250	2,800	2,400
1959.....	3,600	2,205	117,900	162,844	5,800	4,427
1960.....	2,700	998	110,300	135,532	24,500	22,447
1961.....	2,200	2,200	83,000	90,041	7,000	5,057
1962.....	900	799	78,400	81,177	8,800	8,259
1963.....	1,800	1,798	44,700	57,079	11,300	11,528
1964.....	1,500	1,201	58,200	76,259	12,900	13,117

(CONTINUED ON NEXT PAGE)

# HISTORICAL FISHERY STATISTICS

## NEW ENGLAND OYSTER CATCH, VARIOUS YEARS, 1880-1964 - Continued

YEAR	CONNECTICUT		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
1880	2,449,356	\$386,625	3,860,436	\$653,925
1887	11,449,038	989,623	13,129,385	1,323,965
1888	10,691,632	1,012,259	12,650,115	1,211,133
1889	10,617,068	1,055,807	12,420,862	1,291,284
1892	14,124,466	1,426,249	15,617,329	1,769,129
1898	15,218,614	1,249,071	19,175,585	1,910,684
1902	6,173,913	872,634	10,370,771	1,554,177
1905	8,267,888	1,206,217	14,419,974	2,287,924
1908	10,150,504	1,167,400	19,700,941	2,337,300
1910	9,826,109	826,060	26,629,071	2,445,470
1919	5,161,554	493,666	12,286,805	2,015,798
1924	4,229,119	585,899	7,477,785	1,413,074
1928	894,435	202,554	4,615,653	1,055,707
1929	3,217,294	507,309	5,947,862	1,204,393
1930	5,615,711	818,534	9,431,966	1,745,100
1931	1,382,331	151,237	4,066,363	820,497
1932	3,116,386	411,444	7,386,432	1,202,327
1933	1,858,908	254,344	5,157,280	747,373
1935	4,507,100	607,642	10,004,200	1,210,242
1937	6,877,500	903,132	11,415,400	1,550,023
1938	4,825,200	1,016,660	8,637,300	1,554,150
1939	5,222,200	1,041,208	7,805,500	1,563,432
1940	3,857,100	538,754	5,990,200	1,051,224
1942	1,336,400	279,039	2,855,700	478,360
1943	1,183,800	329,155	2,949,200	436,943
1944	861,200	242,809	1,696,200	316,369
1945	1,393,500	554,644	2,478,100	1,069,912
1946	860,300	286,862	2,050,000	939,476
1947	1,299,200	458,339	2,125,100	878,279
1948	513,700	230,166	1,651,500	881,430
1949	3,085,600	992,121	4,003,900	1,472,636
1950	3,577,500	1,121,022	4,727,600	1,681,155
1951	852,700	364,522	1,969,500	1,015,623
1952	1,276,900	530,427	2,209,300	1,053,905
1953	553,100	319,322	1,037,700	615,390
1954	442,200	276,955	724,700	481,172
1955	405,400	329,929	618,500	409,004
1956	246,300	210,843	505,300	427,119
1957	242,900	216,090	402,700	376,767
1958	153,800	176,944	274,400	316,850
1959	256,800	284,152	386,100	453,628
1960	360,900	448,395	498,400	623,345
1961	358,600	416,883	452,500	524,281
1962	205,000	280,566	294,100	370,801
1963	395,200	462,629	453,000	533,034
1964	123,800	235,601	194,400	326,178

## MIDDLE ATLANTIC OYSTER CATCH, VARIOUS YEARS, 1880-1964

YEAR	NEW YORK		NEW JERSEY		PENNSYLVANIA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1880	7,303,100	\$1,577,050	17,735,500	\$2,080,625	1,249,582	\$167,500
1887	13,903,050	1,974,625	23,523,469	2,270,011	1,572,590	183,168
1888	13,307,840	1,693,085	22,670,108	2,245,659	1,598,995	165,339
1889	14,628,208	2,132,772	9,565,789	1,060,182	1,343,152	137,520
1890	16,456,104	2,457,589	10,207,672	1,216,792	1,254,644	131,450
1891	16,277,334	2,743,509	10,369,453	1,227,909	1,165,773	124,420
1892	(1)	(1)	10,322,345	1,170,558	1,100,558	101,850
1897	15,517,110	2,167,463	11,350,540	1,381,506	1,861,316	143,774
1898	12,823,237	1,863,607	12,051,348	1,309,411	(1)	(1)
1901	12,380,921	1,703,985	18,789,168	1,696,767	283,562	35,517
1904	20,079,549	3,413,693	11,756,454	1,298,508	632,700	90,000
1906	12,950,000	2,173,000	8,252,620	884,000	906,870	134,000
1911	24,835,433	3,199,668	8,690,574	809,554	(1)	(1)
1921	9,423,470	1,775,453	14,171,922	2,070,496	-	-
1926	7,125,265	2,111,722	14,374,600	2,046,554	-	-
1929	9,192,337	2,185,112	19,916,410	3,327,144	-	-
1930	9,263,225	2,222,965	11,805,557	1,848,988	-	-
1932	6,635,230	1,025,488	14,401,317	1,686,368	-	-
	6,036,253	894,421	8,553,629	621,683	-	-

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# HISTORICAL FISHERY STATISTICS

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## MIDDLE ATLANTIC OYSTER CATCH, VARIOUS YEARS, 1880-1964 - Continued

YEAR	NEW YORK		NEW JERSEY		PENNSYLVANIA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1933, . . .	6,091,784	\$632,690	7,611,675	\$587,101	-	-
1935, . . .	5,767,100	969,287	8,462,200	703,729	-	-
1937, . . .	9,184,500	1,709,786	4,562,700	631,592	-	-
1939, . . .	10,205,600	1,957,922	5,797,500	724,953	-	-
1940, . . .	2,277,700	4,142,603	5,941,100	541,648	-	-
1940, . . .	7,067,200	1,403,068	5,941,500	711,110	-	-
1942, . . .	6,400,300	2,144,260	5,521,500	1,267,505	-	-
1943, . . .	6,604,600	2,650,205	6,024,300	1,359,480	-	-
1944, . . .	7,137,000	3,432,350	5,640,300	2,920,806	-	-
1945, . . .	5,073,500	2,057,276	7,747,800	3,065,625	-	-
1946, . . .	5,769,400	3,820,620	(1)	(1)	-	-
1947, . . .	5,785,000	3,856,597	5,853,000	2,194,461	-	-
1948, . . .	6,952,000	4,721,545	5,988,300	2,395,320	-	-
1949, . . .	6,135,700	5,423,560	7,085,700	2,783,624	-	-
1950, . . .	6,186,800	5,799,685	7,241,800	2,697,247	-	-
1951, . . .	9,390,000	4,255,270	5,711,300	2,405,681	-	-
1952, . . .	5,520,900	4,567,110	7,992,300	3,205,359	-	-
1953, . . .	2,635,800	1,661,843	8,484,500	4,118,084	-	-
1954, . . .	1,707,000	1,138,029	7,325,900	3,633,774	-	-
1955, . . .	1,333,700	1,075,632	5,204,500	2,602,275	-	-
1956, . . .	1,069,400	1,000,900	5,501,800	3,023,620	-	-
1957, . . .	1,067,400	1,018,206	2,720,000	1,781,528	-	-
1958, . . .	1,056,800	986,293	629,200	675,836	-	-
1959, . . .	889,900	908,296	205,000	189,233	-	-
1960, . . .	810,400	905,203	165,800	159,948	-	-
1961, . . .	789,100	1,068,451	1,100,100	933,444	-	-
1962, . . .	728,900	1,079,589	1,553,000	1,422,234	-	-
1963, . . .	394,500	572,588	515,400	558,737	-	-
1964, . . .	213,500	315,037	1,097,700	1,024,410	-	-
YEAR	DELAWARE		TOTAL			
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1880, . . .	2,109,000	\$325,000	28,397,182	\$4,170,175	-	-
1887, . . .	276,279	17,526	39,275,388	4,445,330	-	-
1888, . . .	294,240	17,920	37,871,183	4,322,003	-	-
1889, . . .	1,039,682	64,671	26,576,831	3,395,145	-	-
1890, . . .	1,184,555	73,605	29,102,375	3,881,436	-	-
1891, . . .	1,101,742	70,134	30,428,402	4,170,972	-	-
1892, . . .	1,232,584	73,863	(1)	(1)	-	-
1897, . . .	369,350	26,852	29,126,516	3,727,805	-	-
1898, . . .	-	-	32,134,888	3,476,559	-	-
1901, . . .	681,207	44,290	39,276,965	4,849,914	-	-
1904, . . .	811,262	47,513	23,192,110	3,303,000	-	-
1908, . . .	1,082,620	112,000	178,860	4,188,082	-	-
1911, . . .	1,790,604	268,115	26,420,228	4,214,064	-	-
1921, . . .	2,824,836	476,030	24,926,251	4,634,305	-	-
1926, . . .	3,425,386	12,407	29,213,705	5,505,293	-	-
1929, . . .	104,958	54,911	21,516,320	4,076,864	-	-
1930, . . .	428,100	53,057	21,546,401	2,764,913	-	-
1931, . . .	470,534	47,402	15,026,476	1,763,506	-	-
1932, . . .	426,594	229,360	13,932,819	1,447,981	-	-
1933, . . .	3,073,600	561,000	54,999	14,501,700	1,285,005	-
1937, . . .	270,200	170	14,617,000	2,398,948	-	-
1938, . . .	139,700	14,001	16,144,100	2,696,183	-	-
1939, . . .	285,100	25,063	11,653,900	1,778,714	-	-
1940, . . .	974,200	67,227	13,983,200	2,181,605	-	-
1942, . . .	183,800	23,941	12,105,600	3,435,706	-	-
1943, . . .	47,600	8,325	12,676,500	4,048,010	-	-
1944, . . .	347,500	139,775	13,124,800	6,492,931	-	-
1945, . . .	732,000	216,725	13,553,300	5,351,626	-	-
1946, . . .	(1)	(1)	(1)	(1)	-	-
1947, . . .	4,105,900	1,418,132	15,743,500	7,469,190	-	-
1948, . . .	2,650,000	1,077,400	15,790,300	8,194,265	-	-
1949, . . .	2,100,000	568,280	17,740,000	9,079,324	-	-
1950, . . .	2,141,000	911,800	15,169,600	9,608,735	-	-
1951, . . .	2,265,000	1,047,660	17,410,400	9,708,611	-	-
1952, . . .	2,252,300	1,150,925	16,767,000	9,115,404	-	-
1953, . . .	3,141,300	1,564,642	14,461,600	7,344,569	-	-
1954, . . .	4,340,000	2,725,520	13,375,900	7,497,323	-	-
1955, . . .	3,290,400	1,603,700	9,848,600	5,281,607	-	-
1956, . . .	1,893,600	782,650	8,464,800	4,807,370	-	-
1957, . . .	4,194,200	2,226,720	7,981,600	5,026,454	-	-
1958, . . .	2,410,000	1,717,262	4,295,900	3,379,391	-	-
1959, . . .	295,000	18,785	1,300,000	1,274,154	-	-
1960, . . .	170,200	11,593	1,150,400	1,184,634	-	-
1961, . . .	32,900	18,791	1,921,100	2,020,686	-	-
1962, . . .	80,600	60,488	2,362,900	2,552,691	-	-
1963, . . .	40,400	25,086	950,300	1,156,511	-	-
1964, . . .	44,700	26,984	1,355,900	1,366,431	-	-

1/ DATA NOT AVAILABLE.

# HISTORICAL FISHERY STATISTICS

## CHESAPEAKE OYSTER CATCH, VARIOUS YEARS, 1880-1964

YEAR	MARYLAND		VIRGINIA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1880.	71,665,000	\$4,730,476	45,556,300	\$2,216,376	117,404,600	\$6,948,852
1887 1/4 . . .	55,244,900	2,683,385	19,454,800	1,042,900	74,687,700	3,666,336
1888. . . .	57,644,600	2,877,900	24,405,100	1,336,100	82,049,700	4,213,894
1890. . . .	70,851,600	4,854,746	40,453,000	2,482,348	111,304,600	7,394,994
1891. . . .	67,427,500	5,295,866	40,969,900	2,524,348	108,397,400	7,620,214
1897. . . .	49,188,500	2,885,202	45,778,800	2,041,683	95,967,300	4,926,885
1901. . . .	38,548,100	3,031,516	40,410,700	2,621,915	78,958,800	5,653,433
1904. . . .	29,333,100	2,417,674	38,098,300	3,459,676	67,431,400	5,877,350
1906. . . .	39,527,400	2,228,000	24,455,500	2,348,000	63,982,900	4,576,000
1912. . . .	37,272,900	2,127,759	29,344,100	2,286,340	66,617,000	4,414,099
1920. . . .	30,831,900	2,291,120	21,484,100	2,348,961	52,316,000	4,640,081
1925. . . .	28,811,900	3,256,272	19,561,100	2,765,334	48,382,600	6,021,260
1926. . . .	17,189,400	2,053,177	15,950,000	2,100,000	33,136,400	4,524,285
1930. . . .	17,105,200	2,069,972	15,774,000	2,281,945	36,873,200	4,351,917
1931. . . .	16,374,400	1,473,914	15,936,400	1,310,296	32,310,800	2,712,214
1932. . . .	12,985,400	941,843	14,904,200	1,073,592	27,889,600	2,015,435
1933. . . .	11,684,800	788,197	13,467,800	937,055	25,152,600	1,725,252
1934. . . .	13,917,300	902,883	21,868,800	1,399,818	35,786,100	2,302,701
1935. . . .	15,583,800	1,021,615	14,317,200	997,822	29,901,000	2,019,437
1936. . . .	16,050,000	1,256,101	14,253,800	1,207,160	30,313,800	2,453,281
1937. . . .	20,729,700	1,519,474	10,986,000	781,150	31,715,700	2,300,624
1938. . . .	19,363,000	1,196,159	14,049,300	1,171,510	33,412,300	2,369,669
1939. . . .	20,342,300	1,369,945	16,504,300	1,335,972	36,846,600	2,725,917
1940. . . .	19,743,200	1,464,497	17,713,900	1,572,750	37,457,100	3,217,247
1941. . . .	16,871,400	2,096,209	15,200,100	2,100,000	35,071,400	4,000,519
1942. . . .	13,671,700	2,520,080	14,954,300	2,700,682	28,220,700	5,220,082
1944. . . .	14,126,600	4,531,345	15,720,400	4,528,735	29,847,000	9,060,080
1945. . . .	15,033,500	5,261,725	17,536,400	6,359,353	32,569,900	11,621,078
1946. . . .	13,590,300	4,377,090	19,764,800	5,905,230	33,355,100	10,282,320
1947. . . .	13,076,500	4,358,510	20,653,800	7,465,140	33,730,300	11,823,650
1948. . . .	13,285,100	4,760,392	21,117,500	7,024,940	34,402,600	11,785,332
1949. . . .	13,717,700	5,386,805	18,059,000	5,988,255	31,776,700	11,375,060
1950. . . .	14,406,000	5,520,892	15,547,500	5,573,860	29,953,500	11,094,772
1951. . . .	14,521,900	6,692,360	15,076,300	5,276,511	29,598,200	11,968,871
1952. . . .	15,287,100	7,165,000	18,130,000	7,151,975	34,417,600	14,575,975
1953. . . .	17,433,900	7,074,400	19,150,000	7,682,200	36,944,800	14,225,650
1954. . . .	20,220,200	9,011,500	21,224,000	9,840,750	41,065,800	15,682,600
1955. . . .	17,271,900	7,786,400	21,055,600	10,015,845	39,227,500	17,802,245
1956. . . .	15,843,900	8,791,685	21,220,200	9,900,857	37,064,100	18,692,542
1957. . . .	14,144,400	7,344,917	20,089,500	9,846,869	34,233,900	17,191,766
1958. . . .	12,026,700	6,667,542	25,503,700	14,126,422	37,530,400	20,793,964
1959. . . .	11,966,200	7,234,124	21,354,900	13,374,298	33,321,100	20,608,422
1960. . . .	11,769,700	8,426,224	15,340,400	10,882,946	27,110,100	19,309,170
1961. . . .	10,336,600	7,602,392	17,163,500	13,932,107	27,500,100	21,734,499
1962. . . .	8,137,500	6,182,332	11,800,000	9,773,869	19,937,500	15,956,201
1963. . . .	7,756,400	5,618,082	10,517,900	8,110,169	16,274,300	13,278,271
1964. . . .	7,947,700	5,460,637	14,150,200	10,345,064	22,097,900	15,805,701

<sup>1/4</sup> EXCLUSIVE OF THE JAMES AND POTOMAC RIVERS.

## SOUTH ATLANTIC OYSTER CATCH, VARIOUS YEARS, 1880-1964

YEAR	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1880. . . .	938,400	\$60,000	238,000	\$20,000	393,400	\$35,000
1887. . . .	1,175,650	48,353	179,571	18,581	618,578	26,950
1888. . . .	1,129,960	46,129	191,552	19,146	677,772	29,370
1889. . . .	5,528,942	194,272	207,531	19,890	917,184	26,356
1890. . . .	4,456,075	175,567	300,594	23,204	1,260,875	40,520
1897. . . .	4,740,675	241,099	1,022,924	45,360	2,734,883	65,709
1900. . . .	5,645,926	268,363	3,282,972	118,460	6,878,880	220,467
1910. . . .	4,920,520	227,300	7,439,680	137,000	8,070,320	334,707
1918. . . .	1,934,256	65,405	5,290,900	93,927	2,910,200	170,912
1919. . . .	1,197,630	70,280	1,893,004	96,542	691,028	73,913
1923. . . .	3,089,146	229,576	3,421,992	113,955	3,811,182	86,771
1927. . . .	2,397,750	200,742	3,699,391	156,002	606,033	43,602
1928. . . .	2,285,610	167,490	3,942,446	162,867	841,736	54,670
1929. . . .	2,828,420	245,533	3,133,518	125,661	442,266	19,970
1930. . . .	2,205,674	155,148	3,246,509	133,152	159,385	10,608
1931. . . .	1,500,571	92,061	2,539,602	60,676	307,766	9,251
1932. . . .	1,201,356	51,339	2,417,841	51,858	588,408	15,670
1934. . . .	1,160,700	53,092	2,881,900	101,774	568,700	31,361
1936. . . .	2,480,500	160,631	3,117,900	162,612	330,100	21,066

(CONTINUED ON NEXT PAGE)

# HISTORICAL FISHERY STATISTICS

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## SOUTH ATLANTIC OYSTER CATCH, VARIOUS YEARS, 1880-1964 - Continued

YEAR	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1937, . . .	1,940,900	\$112,051	2,811,600	\$104,718	239,000	\$12,576
1938, . . .	1,426,900	96,466	1,761,000	66,703	154,000	6,038
1939, . . .	1,055,600	72,954	1,719,400	64,548	234,400	12,353
1940, . . .	690,400	52,560	2,202,700	81,817	264,600	15,178
1945, . . .	1,707,100	400,210	722,100	117,147	255,100	50,026
1946, . . .	1,520,000	558,655	1,373,700	336,125	307,900	76,740
1951, . . .	1,531,900	632,222	1,260,000	460,500	292,700	72,155
1952, . . .	1,620,900	600,228	2,247,700	582,282	220,000	55,700
1953, . . .	1,525,300	536,015	2,247,700	425,364	222,500	58,400
1954, . . .	1,008,400	395,870	2,561,600	559,829	217,200	65,160
1955, . . .	731,000	286,395	1,337,400	334,330	173,300	51,990
1956, . . .	1,316,000	563,777	2,185,900	441,943	120,200	35,716
1957, . . .	1,086,500	479,757	1,644,500	369,681	112,300	27,401
1958, . . .	1,041,500	434,311	1,437,100	286,197	142,600	35,002
1959, . . .	1,311,000	587,607	1,916,300	379,249	248,000	60,937
1960, . . .	1,216,200	560,442	2,627,500	919,625	231,400	58,831
1961, . . .	1,204,400	615,467	2,544,300	1,000,270	157,200	47,650
1962, . . .	961,400	485,589	2,673,600	1,157,365	146,200	51,415
1963, . . .	694,000	356,705	3,627,100	1,556,490	235,500	82,425
1964, . . .	727,700	414,775	2,511,100	995,969	195,800	66,536

YEAR	FLORIDA, EAST COAST		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
1880, . . .	(1)	(1)	1,569,800	\$115,000
1887, . . .	(2)	(2)		(2)
1888, . . .	(1)	(1)		(2)
1889, . . .	(1)	(1)		(2)
1890, . . .	(1)	(1)		(2)
1897, . . .	(1)	(1)		(2)
1902, . . .	(1)	(1)		(2)
1908, . . .	(1)	(1)		(2)
1910, . . .	(1)	(1)		(2)
1916, . . .	(1)	(1)		(2)
1923, . . .	(1)	(1)		(2)
1927, . . .	(1)	(1)		(2)
1928, . . .	(1)	(1)		(2)
1929, . . .	(1)	(1)		(2)
1930, . . .	282,171	\$23,619	5,895,739	322,527
1931, . . .	342,623	25,361	4,690,762	187,349
1932, . . .	393,369	18,472	4,600,974	137,337
1934, . . .	679,200	29,016	5,270,500	215,243
1936, . . .	456,000	19,677	6,384,500	363,986
1937, . . .	462,700	21,862	5,454,200	251,207
1938, . . .	302,600	15,860	3,644,700	189,069
1939, . . .	323,800	10,957	3,320,200	160,022
1940, . . .	200,000	12,823	3,360,000	162,378
1945, . . .	137,500	77,000	2,821,900	644,383
1950, . . .	29,800	13,410	3,033,500	981,951
1951, . . .	28,100	15,174	3,782,900	1,201,951
1952, . . .	20,800	4,160	4,111,600	1,243,680
1953, . . .	25,300	5,060	4,021,100	1,024,839
1954, . . .	22,700	4,767	3,809,900	1,025,626
1955, . . .	19,400	4,268	2,281,100	676,983
1956, . . .	32,300	7,752	3,656,400	1,049,168
1957, . . .	24,800	6,795	3,068,100	683,634
1958, . . .	29,700	8,977	2,659,900	765,707
1959, . . .	40,000	12,241	3,517,300	1,049,344
1960, . . .	44,600	13,280	4,119,300	1,552,278
1961, . . .	72,600	21,343	3,984,500	1,779,670
1962, . . .	67,000	20,100	3,848,900	1,724,669
1963, . . .	80,700	24,210	4,837,300	2,019,830
1964, . . .	92,300	27,702	3,526,900	1,507,982

<sup>1/</sup> THE CATCH OF OYSTERS ON THE EAST COAST OF FLORIDA HAS BEEN INCLUDED WITH THAT OF THE WEST COAST OF FLORIDA.

<sup>2/</sup> DATA NOT AVAILABLE.

# HISTORICAL FISHERY STATISTICS

## FLORIDA OYSTER CATCH, VARIOUS YEARS, 1880-1964

YEAR	EAST COAST		WEST COAST		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1880, . . .	(1)	(1)	1/270, 384	1/\$15, 950	270, 384	\$15, 950
1888, . . .	(1)	(1)	1/822, 830	1/57, 398	822, 830	57, 398
1889, . . .	(1)	(1)	1/1, 228, 860	1/86, 312	1, 228, 860	86, 312
1890, . . .	(1)	(1)	1/1, 611, 402	1/109, 542	1, 611, 402	109, 542
1895, . . .	(1)	(1)	1/928, 634	1/61, 723	928, 634	61, 723
1897, . . .	(1)	(1)	1/795, 511	1/62, 024	795, 511	62, 024
1902, . . .	(1)	(1)	1/3, 056, 976	1/161, 295	3, 056, 976	161, 296
1905, . . .	(1)	(1)	1/3, 570, 180	1/295, 000	3, 570, 180	295, 000
1911, . . .	(1)	(1)	1/1, 052, 840	1/143, 546	1, 052, 840	143, 546
1912, . . .	(1)	(1)	1/1, 511, 109	1/166, 399	1, 511, 109	166, 399
1923, . . .	(1)	(1)	1/1, 237, 640	1/207, 512	1, 237, 640	207, 512
1927, . . .	(1)	(1)	1/1, 738, 538	1/254, 753	1, 738, 538	254, 753
1929, . . .	(1)	(1)	1/1, 504, 566	1/223, 661	1, 504, 566	223, 661
1930, . . .	282, 171	\$23, 619	1, 501, 082	118, 579	1, 783, 253	142, 198
1931, . . .	342, 623	25, 361	1, 406, 153	96, 693	1, 748, 776	122, 054
1932, . . .	393, 369	18, 472	1, 108, 837	58, 695	1, 502, 206	77, 367
1934, . . .	679, 200	29, 016	1, 356, 800	72, 615	2, 036, 000	101, 631
1936, . . .	456, 000	19, 677	917, 100	62, 091	1, 373, 100	81, 768
1937, . . .	462, 700	21, 862	1, 178, 200	54, 873	1, 279, 900	76, 735
1938, . . .	302, 000	15, 900	857, 000	53, 500	1, 160, 500	75, 388
1939, . . .	323, 800	10, 737	741, 700	62, 051	1, 000, 000	75, 768
1940, . . .	206, 700	12, 823	668, 600	49, 075	877, 300	61, 898
1945, . . .	137, 500	77, 000	1, 495, 800	703, 026	1, 633, 300	780, 026
1950, . . .	29, 800	13, 410	872, 700	392, 450	902, 500	405, 860
1951, . . .	28, 100	15, 174	680, 600	367, 522	708, 700	382, 696
1952, . . .	20, 800	4, 160	541, 900	106, 380	562, 700	112, 540
1953, . . .	25, 300	5, 050	563, 800	62, 248	589, 100	67, 308
1954, . . .	22, 700	4, 767	667, 500	140, 175	690, 200	144, 942
1955, . . .	19, 400	4, 268	630, 300	138, 666	649, 700	142, 934
1956, . . .	32, 300	7, 752	856, 300	205, 312	888, 600	213, 264
1957, . . .	24, 000	6, 705	710, 000	196, 856	735, 000	206, 651
1958, . . .	29, 700	8, 179	794, 600	216, 494	824, 500	226, 691
1959, . . .	40, 000	12, 241	1, 415, 000	404, 680	1, 485, 000	416, 330
1960, . . .	44, 600	13, 380	1, 930, 800	482, 700	1, 975, 400	496, 080
1961, . . .	72, 600	21, 343	3, 254, 100	1, 031, 549	3, 326, 700	1, 052, 692
1962, . . .	67, 000	20, 100	4, 952, 500	1, 405, 515	5, 019, 500	1, 426, 615
1963, . . .	80, 700	24, 210	4, 282, 100	1, 224, 680	4, 362, 800	1, 246, 890
1964, . . .	92, 300	27, 702	2, 792, 700	781, 142	2, 885, 000	808, 844

1/ DATA FOR THE EAST COAST INCLUDED WITH THE WEST COAST.

## GULF OYSTER CATCH, VARIOUS YEARS, 1880-1964

YEAR	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1880, . . .	1/270, 384	1/\$15, 950	327, 085	\$44, 950	62, 250	\$10, 000
1887, . . .	(2)	(2)	(2)	(2)	1, 446, 939	118, 974
1889, . . .	1/822, 830	1/57, 398	236, 271	32, 174	1, 910, 340	157, 463
1890, . . .	1/1, 228, 860	1/86, 312	1, 372, 270	56, 758	2, 105, 302	167, 713
1895, . . .	1/1, 611, 402	1/109, 542	1, 504, 249	107, 112	2, 008, 130	166, 672
1897, . . .	1/928, 634	1/61, 723	(2)	(2)	(2)	(2)
1902, . . .	1/3, 056, 976	1/62, 024	798, 316	60, 207	1, 567, 985	110, 564
1908, . . .	1/3, 670, 480	1/296, 000	1, 067, 550	119, 773	5, 988, 778	426, 222
1911, . . .	1/1, 140, 092	1/143, 937	1, 162, 592	68, 842	2, 657, 079	295, 800
1918, . . .	1/1, 511, 109	1/141, 948	376, 360	38, 175	1, 620, 978	139, 773
1923, . . .	1/1, 052, 840	1/86, 399	729, 559	66, 719	3, 168, 248	307, 326
1927, . . .	1/1, 237, 640	1/207, 512	520, 804	47, 174	6, 692, 794	472, 652
1928, . . .	1/1, 738, 538	1/234, 553	1, 886, 104	131, 107	5, 048, 679	460, 223
1929, . . .	1/1, 504, 566	1/223, 661	176, 824	16, 522	6, 522, 247	457, 555
1930, . . .	1, 501, 082	1/21, 579	236, 654	23, 233	4, 994, 246	320, 607
1931, . . .	1, 406, 153	96, 693	769, 721	28, 258	3, 437, 894	143, 843
1932, . . .	1, 108, 837	58, 895	859, 217	32, 318	5, 222, 320	201, 945
1934, . . .	1/356, 800	72, 615	391, 800	23, 634	4, 903, 900	309, 790
1936, . . .	917, 100	62, 091	991, 800	60, 687	5, 770, 900	361, 661
1937, . . .	817, 200	54, 873	1, 235, 200	66, 145	12, 894, 100	579, 339
1938, . . .	857, 700	63, 528	1, 358, 700	71, 761	2, 241, 400	103, 094
1939, . . .	741, 700	62, 051	1, 357, 700	63, 510	7, 706, 400	338, 773
1940, . . .	668, 600	49, 075	936, 000	101, 151	2, 270, 100	147, 157
1945, . . .	1, 495, 800	703, 026	1, 605, 700	717, 007	265, 200	119, 642
	(2)	(2)	1, 531, 200	588, 068	1, 308, 600	425, 460

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# HISTORICAL FISHERY STATISTICS

479

## GULF OYSTER CATCH, VARIOUS YEARS. 1880-1964 - Continued

YEAR	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1949. . . . .	1,066,400	\$445,693	1,585,600	\$662,277	461,900	\$136,625
1950. . . . .	872,700	392,450	2,070,300	534,116	507,800	195,370
1951. . . . .	680,500	367,522	2,191,400	761,205	27,600	10,515
1952. . . . .	541,300	100,380	1,862,200	572,845	23,700	6,635
1953. . . . .	523,500	62,238	1,445,700	484,413	317,700	77,457
1954. . . . .	657,500	140,175	739,300	172,110	976,500	199,455
1955. . . . .	630,300	138,666	1,580,600	327,301	1,731,200	349,851
1956. . . . .	856,300	205,512	769,900	174,487	846,300	173,654
1957. . . . .	710,200	198,856	1,291,200	288,683	862,300	185,402
1958. . . . .	794,800	218,494	457,600	111,607	576,800	122,322
1959. . . . .	1,415,000	404,689	894,800	278,521	333,800	82,486
1960. . . . .	1,930,800	482,700	1,169,300	317,045	2,390,700	535,495
1961. . . . .	3,254,100	1,031,549	508,500	162,412	3,241,100	752,456
1962. . . . .	4,952,500	1,406,515	442,700	164,527	2,073,700	537,870
1963. . . . .	4,282,100	1,224,680	995,900	352,577	4,679,900	975,115
1964. . . . .	2,792,700	781,142	1,005,300	1	324,125	4,828,600
						1,098,736
YEAR	LOUISIANA		TEXAS		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
1880. . . . .	1,188,850	\$200,000	324,541	\$47,300	2,173,110	\$318,200
1887. . . . .	2,733,254	215,163	1,240,003	68,275	(2)	(2)
1889. . . . .	2,901,568	230,820	1,651,771	109,633	7,524,780	587,488
1890. . . . .	3,367,146	269,057	1,745,304	111,400	9,818,882	731,240
1891. . . . .	3,391,568	299,696	2,133,472	127,990	10,650,341	810,912
1895. . . . .	(2)	(2)	(2)	(2)	(2)	(2)
1897. . . . .	3,865,536	432,668	1,722,604	94,663	8,750,952	760,526
1902. . . . .	4,829,604	493,227	1,560,667	100,359	16,623,575	1,300,877
1906. . . . .	11,952,980	675,000	2,368,696	167,200	22,326,915	1,603,000
1911. . . . .	12,419,134	799,16	1,765,932	123,565	16,108,428	1,275,433
1918. . . . .	4,595,705	494,299	2,312,304	143,610	11,939,600	1,125,350
1920. . . . .	4,119,099	776,434	1,189,294	177,100	10,887,982	1,050,580
1927. . . . .	6,640,202	1,097,833	1,910,333	189,665	17,001,773	2,209,311
1928. . . . .	6,245,730	946,767	1,249,848	129,958	16,623,575	1,300,877
1929. . . . .	4,549,402	438,410	1,729,085	146,167	14,604,653	1,280,976
1930. . . . .	4,846,300	550,046	1,157,315	80,494	12,667,737	1,093,580
1931. . . . .	3,589,898	278,666	982,032	59,371	10,184,698	607,031
1932. . . . .	2,978,061	228,327	980,601	52,610	11,149,036	574,095
1934. . . . .	5,591,700	414,315	1,311,800	105,204	13,556,000	925,758
1936. . . . .	5,742,800	514,729	823,100	78,110	14,245,700	1,077,678
1937. . . . .	8,049,156	652,116	1,189,294	100,633	24,184,200	1,443,504
1938. . . . .	10,226,300	553,734	1,359,500	102,651	16,028,600	880,768
1939. . . . .	13,586,200	719,001	987,300	75,344	24,379,500	1,279,433
1940. . . . .	12,412,200	694,785	1,297,200	108,204	17,584,100	1,103,372
1945. . . . .	9,684,100	2,829,007	718,800	232,361	13,969,600	4,601,243
1948. . . . .	9,016,300	3,157,393	579,300	265,174	(2)	(2)
1949. . . . .	9,667,500	3,459,341	299,300	132,702	13,120,900	4,838,838
1950. . . . .	8,715,400	2,842,603	125,300	44,678	12,291,500	4,009,217
1951. . . . .	8,163,700	1,902,647	455,700	139,339	11,519,000	3,181,226
1952. . . . .	11,401,600	3,075,141	828,000	251,746	14,636,600	4,016,749
1953. . . . .	9,435,300	2,672,664	1,068,500	265,604	12,835,000	3,562,036
1954. . . . .	8,381,100	2,350,270	699,300	193,418	11,443,500	3,095,828
1955. . . . .	9,390,100	2,753,177	542,600	160,398	13,690,900	3,340,620
1956. . . . .	10,256,100	2,289,034	985,500	230,475	15,514,100	3,071,162
1957. . . . .	10,489,300	2,759,098	953,000	262,442	14,306,000	3,691,401
1958. . . . .	8,264,800	2,425,917	311,400	118,254	10,407,400	2,995,594
1959. . . . .	9,667,500	2,645,124	1,411,200	395,885	13,722,300	3,806,707
1960. . . . .	8,310,800	2,303,997	2,296,300	654,532	16,097,900	4,293,769
1961. . . . .	10,139,200	2,849,090	1,095,800	329,320	18,238,700	5,124,827
1962. . . . .	10,160,300	3,316,554	1,210,900	473,117	18,840,100	5,898,583
1963. . . . .	11,553,200	3,720,113	2,617,900	913,835	24,138,100	7,186,320
1964. . . . .	11,401,100	2,976,152	3,357,100	,092,582	23,384,800	6,272,737

1/ INCLUDES THE CATCH FOR THE EAST COAST OF FLORIDA.

2/ DATA NOT AVAILABLE.

# HISTORICAL FISHERY STATISTICS

## PACIFIC COAST STATES OYSTER CATCH, VARIOUS YEARS, 1892 - 1964

YEAR	EASTERN			
	WASHINGTON		CALIFORNIA	
	POUNDS	VALUE	POUNDS	VALUE
1892.	-	-	1,022,000	{1}
1895.	-	-	2,145,000	2,145,000
1899.	-	-	2,520,000	2,520,000
1904.	-	-	1,019,767	1,019,767
1908.	(3)	(3)	(3)	(3)
1915.	265,013	\$140,028	375,774	165,573
1922.	45,710	24,416	74,000	1,022,000
1923.	44,954	38,235	68,810	{1}
1924.	30,022	23,352	52,576	2,145,000
1925.	10,332	9,608	50,900	2,520,000
1926.	20,280	21,161	61,042	1,019,767
1927.	113,360	53,060	55,492	26,161
1928.	73,640	31,914	72,630	23,782
1929.	8,780	5,695	43,725	16,161
1930.	1,970	1,851	72,796	16,852
1931.	2,650	1,961	168,916	119,710
1932.	2,400	1,370	39,227	118,764
1933.	1,466	844	56,419	62,319
1934.	500	175	89,110	45,938
1935.	700	297	35,981	67,232
1936.	1,300	337	58,900	33,394
1937.	800	300	18,320	47,342
1938.	-	-	67,300	81,322
1939.	-	-	23,047	168,852
1940.	-	-	48,200	76,842
1941.	-	-	17,677	27,560
1942.	-	-	24,100	30,969
1943.	-	-	8,917	54,746
1944.	-	-	18,100	13,628
1945.	-	-	7,938	22,751
1946.	-	-	18,800	59,885
1947.	-	-	11,600	89,500
1948.	-	-	8,475	39,158
1949.	-	-	11,600	31,145
1950.	-	-	7,483	18,557
1951.	-	-	13,400	13,400
1952.	-	-	10,557	10,557
1953.	-	-	9,200	5,461
1954.	-	-	13,393	13,393
1955.	-	-	11,000	11,000
1956.	-	-	18,700	22,391
1957.	-	-	51,633	46,400
1958.	-	-	6,500	51,633
1959.	-	-	16,400	4,654
1960.	-	-	25,000	5,500
1961.	-	-	25,460	4,554
1962.	-	-	22,500	16,134
1963.	-	-	30,576	25,000
1964.	-	-	18,200	28,460
	-	-	29,360	30,576
	-	-	17,500	22,500
	-	-	29,096	29,360
	-	-	19,700	17,500
	-	-	36,188	29,096
	-	-	19,900	19,700
	-	-	37,905	36,188
	-	-	16,900	37,905
	-	-	32,000	19,900
	-	-	9,292	32,000
	-	-	1,200	9,292
	-	-	2,938	1,200
	-	-	300	2,938
	-	-	691	300
	-	-	14,800	691
	-	-	5,110	14,800
	-	-	13,300	5,110
	-	-	4,717	13,300
	-	-	13,500	4,717
	-	-	4,726	13,500
	-	-	4,900	4,726
	-	-	10,277	10,277

YEAR	PACIFIC 4/			
	WASHINGTON		OREGON	
	POUNDS	VALUE	POUNDS	VALUE
1922.	35,000	{1}	-	-
1923.	9,800	\$7,000	-	-
1924.	15,680	9,997	-	-
1925.	28,000	16,000	-	-
1926.	60,000	30,000	-	-
1929.	65,795	23,326	-	-
1930.	228,318	82,875	-	-
1931.	277,975	123,557	-	-
1932.	2,093,945	123,999	-	-
1933.	2,790,750	178,858	25,200	\$1,800
1934.	4,925,100	356,059	24,500	1,741
1935.	5,477,200	435,437	9,900	780
1936.	6,306,300	446,377	28,900	2,475
1937.	7,712,700	543,041	87,500	5,400
1938.	8,378,300	523,217	195,100	6,240
1939.	8,290,400	467,578	205,900	6,236
1940.	9,659,900	540,955	923,500	51,716

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# HISTORICAL FISHERY STATISTICS

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## PACIFIC COAST STATES OYSTER CATCH, VARIOUS YEARS, 1892-1964 - Continued

YEAR	PACIFIC 4/			
	WASHINGTON		OREGON	
	POUNDS	VALUE	POUNDS	VALUE
1941.	11,517,100	\$65,784	559,600	\$41,985
1942.	10,315,000	928,350	137,500	11,000
1943.	6,803,100	2,721,250	885,600	303,639
1944.	8,114,200	1,365,185	504,300	55,691
1945.	9,460,100	1,534,241	575,500	96,691
1946.	13,200,200	2,245,127	130,200	22,133
1947.	11,235,700	1,510,071	78,800	13,388
1948.	9,483,900	1,688,134	59,500	10,716
1949.	7,634,600	1,741,207	501,100	85,904
1950.	7,085,700	1,771,422	976,100	214,745
1951.	7,775,600	1,618,779	805,100	205,914
1952.	9,016,400	1,649,621	916,500	198,866
1953.	9,595,300	1,452,649	668,000	114,231
1954.	10,363,000	1,605,263	436,400	69,825
1955.	10,879,300	2,176,539	527,600	103,513
1956.	10,579,000	2,049,752	510,200	124,690
1957.	9,859,200	1,807,478	429,800	85,760
1958.	9,537,300	1,751,455	507,900	101,582
1959.	10,057,200	1,798,539	619,600	114,624
1960.	9,206,400	1,794,847	493,900	95,786
1961.	8,619,500	1,557,168	328,500	72,268
1962.	8,876,900	2,119,670	511,900	127,975
1963.	8,102,600	2,041,751	387,000	108,700
1964.	8,244,100	2,186,779	334,500	105,900
YEAR	PACIFIC 4/ - CONTINUED			
	CALIFORNIA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
1922.	-	-	35,000	(1)
1923.	-	-	9,800	\$7,000
1924.	-	-	15,680	9,800
1925.	-	-	25,000	16,000
1926.	-	-	60,000	30,000
1929.	-	-	65,796	23,226
1930.	-	-	228,318	82,875
1931.	58,833	\$14,684	1,034,591	144,251
1932.	9,142	2,286	2,103,087	129,285
1933.	26,824	6,706	2,842,774	187,364
1934.	6,700	1,675	4,956,300	359,475
1935.	40,000	7,842	5,527,100	444,059
1936.	41,400	7,813	5,376,600	456,665
1937.	90,700	13,602	7,890,900	562,043
1938.	161,000	30,688	8,734,400	562,145
1939.	219,900	41,463	8,415,200	571,067
1940.	172,700	17,799	10,759,700	610,067
1941.	239,200	35,816	12,313,100	944,285
1942.	73,100	20,464	10,525,600	959,614
1943.	102,000	29,656	7,790,700	3,054,545
1944.	76,400	37,135	8,700,500	1,485,983
1945.	38,700	19,925	10,074,300	1,705,857
1946.	10,600	5,955	13,371,000	2,277,215
1947.	5,500	3,140	11,320,000	1,926,599
1948.	20,000	11,729	9,563,400	1,710,579
1949.	28,200	21,744	8,163,900	1,848,500
1950.	17,900	15,250	8,079,700	2,001,417
1951.	16,150	14,477	8,077,000	1,840,170
1952.	22,400	16,132	8,957,500	1,664,639
1953.	19,400	14,949	10,282,700	1,582,829
1954.	56,000	24,441	10,855,400	1,700,529
1955.	196,200	49,469	11,603,100	2,331,526
1956.	735,000	138,654	11,880,600	2,718,096
1957.	1,330,100	251,448	11,614,300	2,144,686
1958.	1,151,900	225,122	11,197,100	2,076,159
1959.	1,651,100	305,287	12,327,900	2,216,450
1960.	1,262,400	286,074	10,982,700	2,181,707
1961.	1,205,700	290,503	10,153,700	1,919,509
1962.	1,325,200	301,701	10,714,000	2,549,346
1963.	1,235,500	225,993	9,745,100	2,376,444
1964.	1,354,700	243,850	9,933,300	2,536,529

SEE FOOTNOTES AT END OF TABLE.

**HISTORICAL FISHERY STATISTICS**  
**PACIFIC COAST STATES OYSTER CATCH,**  
**VARIOUS YEARS, 1892-1964 - Continued**

YEAR	WESTERN			
	WASHINGTON		OREGON	
	POUNDS	VALUE	POUNDS	VALUE
1892.	1,979,000	\$147,995	15,000	\$3,062
1895.	1,297,000	109,232	13,000	2,220
1899.	1,180,000	174,567	9,000	1,625
1904.	1,833,000	(1)	9,000	(1)
1908.	3/1,321,000	3/346,000	3/7,300	3/4,000
1915.	815,000	(1)	1,547	725
1922.	655,000	(1)	11,000	(1)
1924.	651,840	323,770	14,000	4,200
1924.	650,000	342,447	11,070	4,305
1925.	663,348	350,042	9,693	4,300
1926.	697,920	358,631	2,616	2,325
1927.	615,792	284,351	2,700	2,250
1928.	614,520	312,594	432	480
1929.	608,964	356,443	9,000	6,000
1930.	302,659	250,502	8,177	5,310
1931.	162,197	151,465	5,993	2,854
1932.	256,731	133,005	2,476	964
1933.	219,965	117,064	4,550	2,600
1934.	317,700	179,949	7,800	4,357
1935.	326,700	201,881	8,000	5,210
1936.	304,800	207,481	7,900	5,283
1937.	266,000	193,950	9,600	6,440
1938.	262,200	182,299	8,700	4,454
1939.	236,500	149,855	9,400	4,675
1940.	222,700	133,287	1,300	780
1941.	258,200	163,560	1,000	625
1942.	239,700	167,790	-	-
1943.	167,600	213,972	3,300	2,904
1944.	159,300	159,707	-	-
1945.	151,000	149,510	-	-
1946.	169,300	214,727	-	-
1947.	146,000	200,020	-	-
1948.	154,500	211,627	-	-
1949.	203,000	278,400	-	-
1950.	138,800	198,350	-	-
1951.	85,400	122,050	-	-
1952.	120,200	137,028	-	-
1953.	116,500	165,412	-	-
1954.	96,800	144,900	-	-
1955.	56,200	112,430	-	-
1956.	126,100	65,168	-	-
1957.	131,900	55,000	-	-
1958.	322,200	91,873	-	-
1959.	41,500	97,035	-	-
1960.	44,900	94,309	-	-
1961.	38,100	95,175	-	-
1962.	26,300	72,405	-	-
1963.	31,000	100,860	-	-
1964.	33,700	97,800	-	-

YEAR	WESTERN - CONTINUED			
	CALIFORNIA		TOTAL	
	POUNDS	VALUE	POUNDS	VALUE
1892.	294,000	\$695,257	2,286,000	\$849,314
1895.	(2)	(1)	(1)	(1)
1899.	540,000	75,000	1,729,000	251,192
1904.	386,000	(1)	2,228,000	(1)
1908.	3/729,000	3/337,000	3/2,057,300	3/687,000
1915.	11,000	(1)	827,547	(1)
1922.	-	-	565,000	(1)
1923.	-	-	690,240	327,970
1924.	-	-	661,770	346,752
1925.	25	8	673,066	354,350
1926.	36	20	700,572	360,976
1927.	-	-	618,492	286,601
1928.	4,026	1,726	618,980	314,800
1929.	9,295	4,647	627,259	367,090
1930.	4,949	3,093	315,785	258,905
1931.	17,111	8,032	205,301	162,331
1932.	10,920	4,544	270,301	136,513
1933.	11,216	5,556	226,300	120,222
1934.	5,000	2,728	330,500	167,034
1935.	2,800	1,334	338,400	200,125
	4,300	1,078	317,000	213,842

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# HISTORICAL FISHERY STATISTICS

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## PACIFIC COAST STATES OYSTER CATCH, VARIOUS YEARS, 1892-1964 - Continued

YEAR	WESTERN - CONTINUED				GRAND TOTAL	
	CALIFORNIA		TOTAL			
	POUNDS	VALUE	POUNDS	VALUE		
1937.	5,300	\$1,768	280,900	\$202,158	8,239,900	
1938.	3,900	1,288	274,500	186,051	9,057,400	
1939.	1,000	965	247,000	135,495	757,973	
1940.	3,000	1,754	227,000	135,251	631,669	
1941.	1,100	273	208,300	164,558	752,626	
1942.	700	228	240,400	168,018	12,592,200	
1943.	3,700	474	174,600	217,350	1,117,708	
1944.	-	-	159,300	157,707	8,976,900	
1945.	-	-	151,100	149,610	3,279,378	
1946.	-	-	169,300	214,972	1,654,247	
1947.	-	-	146,000	200,028	13,552,100	
1948.	-	-	154,500	211,627	2,505,580	
1949.	-	-	203,000	278,400	9,764,300	
1950.	4,300	4,770	142,000	125,200	1,973,839	
1951.	2,200	2,604	91,600	126,854	8,373,200	
1952.	-	-	120,200	137,028	1,136,307	
1953.	-	-	116,500	166,412	10,709,500	
1954.	-	-	96,600	144,900	1,993,584	
1955.	2,400	3,007	58,600	115,437	10,417,400	
1956.	700	1,369	26,800	66,537	1,777,601	
1957.	12,200	3,048	30,700	58,448	11,927,500	
1958.	2,200	7,527	34,400	99,401	11,661,900	
1959.	1,100	671	42,600	97,706	2,235,000	
1960.	-	-	44,900	94,309	2,186,851	
1961.	-	-	38,100	95,757	2,316,994	
1962.	-	-	26,300	72,405	2,278,700	
1963.	-	-	31,000	100,860	2,008,224	
1964.	-	-	33,700	97,500	2,225,568	
					2,482,030	
					2,644,006	

1/ DATA NOT AVAILABLE.

2/ EASTERN AND WESTERN OYSTERS HAVE BEEN COMBINED AND LISTED AS EASTERN OYSTERS.

3/ EASTERN AND WESTERN OYSTERS HAVE BEEN COMBINED AND LISTED AS WESTERN (NATIVE) OYSTERS.

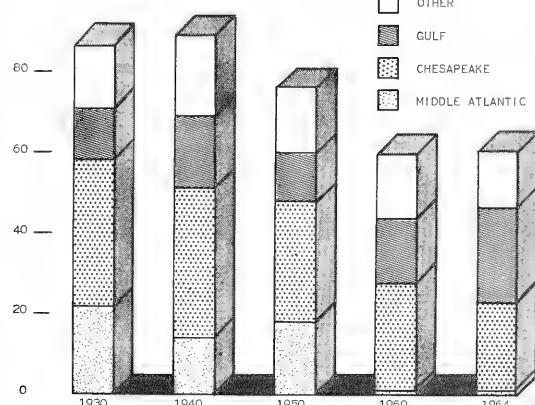
4/ DOES NOT INCLUDE A SMALL PRODUCTION IN ALASKA DURING 1939-49 AND 1956.

NOTE:--DATA ARE SHOWN IN POUNDS OF MEATS.

## OYSTER CATCH, VARIOUS YEARS, 1930-64

THOUSAND POUNDS

100 —



# HISTORICAL FISHERY STATISTICS

## SUMMARY OF PACIFIC SARDINE FISHERY, 1915-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	CALIFORNIA							
	NORTHERN DISTRICT		SAN FRANCISCO DISTRICT		MONTEREY DISTRICT		SANTA BARBARA DISTRICT	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1915.	-	-	31	1	4,029	20	1	(1)
1916.	-	-	-	-	10,649	(2)	-	-
1917.	-	-	3/1,478	(2)	41,125	(2)	-	-
1918.	-	-	31,770	(2)	66,232	(2)	-	-
1919.	-	-	3/1,452	(2)	89,300	(2)	-	-
1920.	-	-	3/1,221	(2)	77,000	(2)	-	-
1921.	-	-	3/1,832	(2)	32,500	(2)	-	-
1922.	[1]	[1]	170	3	44,679	894	[1]	[1]
1923.	[1]	[1]	340	1	86,061	344	-	-
1924.	[1]	[1]	1,091	16	117,529	823	-	-
1925.	-	-	464	9	124,756	786	-	-
1926.	-	-	7,057	48	155,162	822	-	-
1927.	[1]	[1]	18,742	117	173,956	677	-	-
1928.	[1]	[1]	26,966	145	221,568	1,221	-	-
1929.	-	-	41,102	216	323,500	1,178	-	-
1930.	-	-	46,469	196	297,098	1,178	-	-
1931.	-	-	50,661	166	153,432	618	-	-
1932.	(1)	(1)	29,358	74	165,264	422	-	-
1933.	-	-	62,214	195	254,312	784	-	-
1934.	-	-	367,801	1,359	478,923	1,775	-	-
1935.	-	-	433,481	1,725	376,151	1,484	-	-
1936.	-	-	789,056	3,836	402,943	1,941	-	-
1937.	-	-	435,550	2,727	279,194	1,694	-	-
1938.	-	-	446,631	2,501	311,388	1,755	-	-
1939.	-	-	491,843	2,708	429,500	2,374	-	-
1940.	-	-	231,559	1,204	365,516	1,930	-	-
1941.	1	1	931,325	3,291	512,805	3,920	-	-
1942.	(1)	(1)	210,688	2,255	332,491	3,589	-	-
1943.	1	1	244,696	2,708	439,702	4,893	-	-
1944.	-	-	284,494	3,135	500,066	5,575	-	-
1945.	-	-	185,200	2,056	316,980	3,562	-	-
1946.	-	-	6,401	149	71,742	1,155	-	-
1947.	-	-	626	17	36,773	916	-	-
1948.	7	1	230	6	95,514	3,161	-	-
1949.	15	1	33,879	578	262,376	4,565	-	-
1950.	1	(1)	26,443	461	41,685	784	95,024	1,416
1951.	-	-	165	3	1,757	53	74,773	1,567
1952.	-	-	-	-	24	1	2,610	113
1953.	-	-	(1)	(1)	(1)	(1)	973	54
1954.	-	-	-	-	12	1	24,433	951
1955.	-	-	-	-	937	22	39,732	675
1956.	-	-	-	-	1	(1)	15,446	294
1957.	-	-	-	-	32	1	23,978	934
1958.	-	-	-	-	16,784	509	47,110	1,083
1959.	-	-	-	-	29,885	598	5,526	137
1960.	-	-	-	-	3,003	65	15,231	425
1961.	-	-	-	-	1,110	34	8,582	242
1962.	-	-	(1)	(1)	2,592	82	2,175	78
1963.	-	-	-	-	1,340	64	400	20
1964.	-	-	-	-	415	21	840	25

YEAR	CALIFORNIA - CONTINUED				OREGON	
	SAN PEDRO DISTRICT		SAN DIEGO DISTRICT		TOTAL CALIFORNIA	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1915.	329	7	-	-	4,390	28
1916.	2,500	(2)	2,500	(2)	15,649	(2)
1917.	52,500	(2)	9,000	(2)	104,103	(2)
1918.	77,500	(2)	13,250	(2)	160,653	(2)
1919.	55,000	(2)	11,125	(2)	153,521	(2)
1920.	27,800	(2)	12,500	(2)	119,521	(2)
1921.	23,000	(2)	2,000	(2)	59,332	(2)
1922.	44,558	282	2,707	22	92,114	1,201
1923.	67,493	338	5,302	21	159,197	704
1924.	116,957	1,170	7,109	71	242,686	2,098
1925.	174,406	1,186	15,669	107	315,295	2,088
1926.	124,522	658	(4)	(4)	286,741	1,528
1927.	143,549	790	6,028	44	342,275	1,628
1928.	164,619	909	7,117	49	420,270	2,324
1929.	263,369	1,559	3,930	26	61,172	3,587
1930.	189,122	979	4,742	26	49,451	2,798
1931.	95,979	400	132	1	300,204	1,165
1932.	113,985	325	545	4	312,172	825
1933.	192,739	522	533	3	509,798	1,505
1934.	285,161	1,030	4,054	13	1,135,959	4,177
1935.	292,002	1,111	14,102	50	1,115,736	4,370
1936.	252,937	1,050	15,856	64	1,460,792	6,891
1937.	347,461	1,903	9,408	49	1,071,613	6,373
1938.	259,859	1,550	5,513	26	1,023,389	5,832
1939.	238,520	1,639	891	9	1,160,794	6,415
1940.	301,711	1,653	2,107	9	905,222	4,796
1941.	341,408	2,439	2,941	211	1,202,479	9,141

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

# HISTORICAL FISHERY STATISTICS

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## SUMMARY OF PACIFIC SARDINE FISHERY, 1915-64 - Continued

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	CALIFORNIA - CONTINUED						OREGON	
	SAN PEDRO DISTRICT		SAN DIEGO DISTRICT		TOTAL CALIFORNIA		COASTAL DISTRICT	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1942,	421,619	4,402	4,949	\$4	969,747	10,370	3,765	38
1943,	282,710	31,123	5,161	58	972,269	10,782	3,649	40
1944,	359,050	3,965	3,598	40	1,147,208	12,715	4	{2}
1945,	337,490	3,730	5,393	59	845,063	9,407	7	{2}
1946,	423,992	5,395	8,624	154	510,759	6,653	27	1
1947,	212,439	4,743	5,676	126	255,514	5,802	20	{1}
1948,	256,281	7,415	6,005	149	362,037	10,757	1	{1}
1949,	331,502	5,524	5,703	59	637,597	10,757	9	{1}
1950,	547,412	9,377	9,425	42	619,408	12,140	-	-
1951,	246,573	5,548	5,425	76	289,893	7,247	-	-
1952,	11,642	407	54	2	14,330	523	-	-
1953,	7,849	447	646	27	9,469	528	-	-
1954,	111,039	2,732	1,020	17	136,504	3,701	-	-
1955,	104,939	2,372	-	-	145,608	3,059	-	-
1956,	54,089	1,379	18	1	69,554	1,674	-	-
1957,	21,837	851	15	1	45,862	1,787	-	-
1958,	143,541	3,847	11	{1}	207,446	5,439	-	-
1959,	38,954	740	2	{1}	74,367	1,775	-	-
1960,	39,139	693	160	3	57,533	1,188	-	-
1961,	33,229	867	48	3	42,369	1,146	-	-
1962,	10,596	300	-	-	15,363	490	-	-
1963,	5,391	215	-	-	7,131	299	-	-
1964,	11,687	431	196	23	13,138	500	-	-

YEAR	OREGON - CONTINUED		WASHINGTON				TOTAL PACIFIC COAST STATES	
	COLUMBIA RIVER DISTRICT		PUGET SOUND DISTRICT		COASTAL DISTRICT			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1915,	-	-	-	-	-	-	4,390	28
1916,	-	-	-	-	-	-	15,649	{2}
1917,	-	-	-	-	-	-	104,103	{2}
1918,	-	-	-	-	-	-	160,653	{2}
1919,	-	-	-	-	-	-	153,877	{2}
1920,	-	-	-	-	-	-	116,521	{2}
1921,	-	-	-	-	-	-	59,332	{2}
1922,	-	-	-	-	-	-	92,114	1,201
1923,	-	-	-	-	-	-	159,777	704
1924,	-	-	-	-	-	-	242,686	2,080
1925,	-	-	-	-	-	-	315,295	2,688
1926,	-	-	-	-	-	-	265,741	1,528
1927,	-	-	-	-	-	-	342,275	1,628
1928,	-	-	-	-	-	-	420,270	2,324
1929,	-	-	-	-	-	-	651,772	3,589
1930,	-	-	-	-	-	-	494,451	2,378
1931,	-	-	-	-	-	-	300,204	1,185
1932,	-	-	-	-	-	-	312,172	825
1933,	-	-	-	-	-	-	509,798	1,505
1934,	-	-	-	-	-	-	1,135,559	4,177
1935,	-	-	-	-	-	-	1,141,113	4,606
1936,	6	{1}	13	13	{1}	-	1,502,299	4,699
1937,	22	7	34,407	224	224	-	1,139,505	6,915
1938,	10	1	52,966	291	291	-	1,110,401	6,311
1939,	-	-	35,526	195	1,240,975	6,856	-	-
1940,	13	{1}	1,633	8	913,943	4,836	-	-
1941,	11	{1}	34,169	268	1,326,377	9,656	-	-
1942,	31	1	1,137	11	974,660	10,420	-	-
1943,	-	-	20,968	231	997,000	11,060	-	-
1944,	-	-	43	2	{2}	1,147,295	12,717	-
1945,	175	2	29	1	4,697	52	849,971	9,462
1946,	7,918	173	7	{1}	12,263	268	559,994	7,295
1947,	13,852	259	29	1	2,621	77	272,236	6,140
1948,	11,013	273	108	5	-	-	10,010	-
1949,	-	-	56	3	-	-	633,540	10,760
1950,	-	-	-	-	-	-	619,540	12,140
1951,	-	-	1	{2}	-	-	328,894	7,247
1952,	-	-	-	-	-	-	14,330	523
1953,	-	-	-	-	-	-	9,469	528
1954,	-	-	-	-	-	-	136,504	3,701
1955,	-	-	-	-	-	-	145,608	3,069
1956,	-	-	-	-	-	-	69,554	1,674
1957,	-	-	-	-	-	-	59,522	1,057
1958,	-	-	-	-	-	-	207,446	5,439
1959,	-	-	-	-	-	-	74,367	1,475
1960,	-	-	-	-	-	-	57,533	1,186
1961,	-	-	-	-	-	-	43,169	1,146
1962,	-	-	-	-	-	-	15,363	490
1963,	-	-	-	-	-	-	7,131	299
1964,	-	-	-	-	-	-	13,138	500

1/ LESS THAN 500 POUNDS OR \$500. 2/ DATA NOT AVAILABLE. 3/ DATA ARE PARTLY ESTIMATED. 4/ THE CATCH IN THE SAN DIEGO DISTRICT HAS BEEN INCLUDED WITH THAT FOR SAN PEDRO.

# HISTORICAL FISHERY STATISTICS

## PACIFIC SARDINES, CANNED AND INDUSTRIAL PRODUCTS, 1921-63

YEAR	CANNED		MEAL		OIL	
	1,000 CASES	1,000 DOLLARS	1,000 TONS	1,000 DOLLARS	1,000 POUNDS	1,000 DOLLARS
1921	399	2,346	{1}	{1}	1,282	36
1922	715	3,361	{1}	{1}	3,218	145
1923	1,100	4,608	{1}	{1}	7,245	424
1924	1,367	5,445	{1}	{1}	17,542	1,077
1925	1,715	6,381	{1}	{1}	23,400	1,569
1926	2,093	7,807	{1}	{1}	15,848	933
1927	2,563	9,269	16	650	18,862	1,117
1928	2,772	9,659	{1}	{1}	28,695	1,621
1929	3,631	11,997	37	1,961	48,202	2,916
1930	2,979	8,242	26	1,415	43,252	1,826
1931	1,713	4,715	16	510	20,070	1,008
1932	1,954	2,358	25	588	41,468	705
1933	1,539	3,605	51	1,530	76,980	1,593
1934	1,970	5,481	89	2,878	156,338	4,414
1935	2,420	6,237	96	2,638	163,012	6,659
1936	2,617	7,302	122	3,968	195,982	8,336
1937	2,612	8,592	69	3,325	119,948	6,204
1938	2,262	7,102	90	3,438	131,550	5,205
1939	3,108	9,554	97	4,104	149,970	6,078
1940	2,946	8,975	70	3,008	94,720	3,761
1941	5,177	16,912	99	5,222	129,359	9,879
1942	3,745	12,510	72	3,310	93,817	8,066
1943	3,355	14,352	76	3,776	104,605	9,202
1944	3,651	15,226	66	6,583	135,742	11,723
1945	3,766	15,346	61	4,644	88,898	7,926
1946	2,977	19,896	37	5,233	36,499	6,843
1947	1,653	16,538	17	2,556	15,780	2,677
1948	2,654	21,893	19	2,615	17,464	2,458
1949	3,768	21,335	39	6,220	45,924	2,873
1950	5,071	26,346	43	5,270	46,415	4,694
1951	2,865	19,363	17	2,267	14,569	1,546
1952	17	19	{2}	52	1157	11
1953	64	653	{2}	19	98	6
1954	1,336	9,818	7	843	5,669	421
1955	1,415	10,014	7	969	6,733	522
1956	755	5,734	3	370	2,530	181
1957	498	4,721	1	183	656	55
1958	2,223	16,497	11	1,390	5,556	427
1959	755	5,399	3	324	1,409	92
1960	616	4,659	4	316	1,201	78
1961	419	5,664	3	257	646	36
1962	137	1,300	1	73	161	10
1963	57	685	{3}	{3}	{3}	{3}
1964	121	1,030	{3}	{3}	{3}	{3}

<sup>1/</sup> DATA NOT AVAILABLE.<sup>2/</sup> LESS THAN 500 TONS.<sup>3/</sup> NEGLIGIBLE.

SARDINE, PACIFIC

# HISTORICAL FISHERY STATISTICS

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## CATCH OF ATLANTIC OCEAN PERCH, BY YEAR AND PORT, 1930-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	MASSACHUSETTS					
	BOSTON		GLOUCESTER		NEW BEDFORD	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1930	88	2	21	{1}	{1}	{1}
1931	175	3	48	{1}	-	-
1932 2/	{2}	{2}	{2}	{2}	{2}	{2}
1933	221	2	34	{1}	-	-
1934	1,288	14	539	5	-	-
1935	14,144	150	2,896	33	-	-
1936	49,419	720	17,094	243	-	-
1937	41,175	641	17,023	246	-	-
1938	34,111	442	29,408	330	-	-
1939	29,319	459	44,424	568	-	-
1940	19,727	330	57,297	945	-	-
1941	24,783	573	99,877	2,008	-	-
1942	9,949	360	91,285	2,740	5	{1}
1943	5,087	249	83,992	3,399	-	-
1944	2,032	84	91,579	3,561	7	{1}
1945	1,377	55	102,037	3,957	15	1
1946	5,219	238	130,899	5,640	195	9
1947	10,526	478	95,357	4,200	498	14
1948	11,383	498	176,801	7,455	350	14
1949	12,713	498	169,281	7,304	80	3
1950	7,740	325	129,291	5,592	474	17
1951	6,508	335	177,694	8,820	47	2
1952	6,945	303	121,586	5,294	3,690	128
1953	4,920	201	88,329	3,408	4	{1}
1954	3,097	141	98,679	4,029	{1}	{1}
1955	3,040	133	86,249	3,327	12	{1}
1956	2,839	116	83,303	3,142	1	{1}
1957	3,819	168	65,369	2,525	-	-
1958	2,625	142	74,951	3,132	-	-
1959	3,280	172	58,197	2,377	-	-
1960	1,481	70	61,673	2,339	-	-
1961	707	40	53,930	2,223	15	{1}
1962	900	49	53,619	2,307	-	-
1963	1,146	67	43,239	2,144	{1}	{1}
1964	1,121	47	29,105	1,232	-	-

YEAR	MAINE				OTHER MAINE AND MASSACHUSETTS PORTS	TOTAL
	PORTLAND		ROCKLAND			
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1930	4	{1}	-	-	113	2
1931	10	{1}	-	-	233	3
1932 2/	{2}	{2}	{2}	{2}	120	1
1933	2	{1}	-	-	257	2
1934	14	{1}	-	-	1,841	19
1935	70	1	2	{1}	-	-
1936	79	1	-	-	17,112	184
1937	129	1	4	{1}	-	-
1938	1,155	13	4	{1}	-	-
1939	3,870	43	1,549	19	-	-
1940	6,657	61	1,235	15	-	-
1941	14,593	250	6,034	101	-	-
1942	13,913	366	12,241	269	673	19
1943	12,253	451	11,144	379	2,252	78
1944	10,470	378	12,459	433	3,632	125
1945	11,231	419	12,345	477	4,806	212
1946	20,892	821	15,944	641	4,968	169
1947	13,244	423	24,045	723	2,916	8
1948	19,942	683	25,359	914	4,257	115
1949	24,239	673	30,342	1,109	3,930	33
1950	37,184	1,447	36,950	1,549	3,134	106
1951	30,642	1,401	41,150	1,558	1,510	7
1952	20,299	1,112	28,811	1,280	3,644	152
1953	28,393	1,146	28,939	1,101	3,318	116
1954	43,916	1,798	34,694	1,375	672	32
1955	34,297	1,248	33,377	1,330	12	{1}
1956	33,903	1,233	31,027	1,224	40	1
1957	37,107	1,334	27,563	1,060	53	1
1958	32,990	1,354	38,028	1,647	50	1
1959	36,393	1,466	38,812	1,650	20	{1}
1960	37,585	1,429	40,626	1,579	68	3
1961	35,782	1,358	41,548	1,584	27	1
1962	30,741	1,307	38,702	1,559	12	{1}
1963	26,680	1,276	37,199	1,659	28	1
1964	26,887	1,208	32,042	1,292	113	2

1/ LESS THAN 500 POUNDS OR \$500.

2/ DATA NOT AVAILABLE BY PORTS.

# HISTORICAL FISHERY STATISTICS

## CATCH OF ATLANTIC OCEAN PERCH, BY AREAS, 1935-64

(THOUSANDS OF POUNDS)

YEAR	NEW ENGLAND BANKS	NOVA SCOTIA BANKS	GRAND BANK OF NEW- FOUNDLAND	GULF OF ST. LAWRENCE	AREA NOT KNOWN <sup>1/</sup>	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1935 . . . . .	16,542	570	-	-	-	17,112
1936 . . . . .	50,967	15,625	-	-	-	66,592
1937 . . . . .	32,065	26,262	-	-	16	58,343
1938 . . . . .	45,231	19,473	-	-	4	64,708
1939 . . . . .	56,010	21,603	-	-	1,549	79,162
1940 . . . . .	59,056	25,725	-	-	1,235	80,516
1941 . . . . .	110,446	20,707	-	-	6,204	146,387
1942 . . . . .	110,762	4,385	-	-	12,919	128,066
1943 . . . . .	94,144	7,189	-	-	13,395	114,728
1944 . . . . .	96,290	7,798	-	-	16,091	120,179
1945 . . . . .	72,669	41,977	-	-	17,165	131,811
1946 . . . . .	82,953	75,016	-	-	20,148	178,117
1947 . . . . .	64,337	42,260	-	-	39,969	146,586
1948 . . . . .	76,361	112,580	110	-	49,041	238,092
1949 . . . . .	51,984	129,498	-	-	55,503	236,985
1950 . . . . .	46,818	81,367	326	-	79,294	207,793
1951 . . . . .	42,310	119,418	16,665	5,973	73,941	203,907
1952 . . . . .	26,304	57,559	34,205	7,893	6,166	189,029
1953 . . . . .	16,090	26,015	36,654	12,512	60,622	153,893
1954 . . . . .	12,576	35,640	22,896	30,665	79,671	181,448
1955 . . . . .	12,773	17,593	11,707	47,230	67,684	156,987
1956 . . . . .	15,927	25,879	11,924	29,416	64,967	151,113
1957 . . . . .	16,546	33,610	1,896	17,157	64,722	133,931
1958 . . . . .	13,035	54,660	2,419	6,911	71,619	148,644
1959 . . . . .	11,639	39,264	6,301	4,274	75,224	136,702
1960 . . . . .	8,537	50,493	3,916	229	78,258	141,433
1961 . . . . .	9,708	41,316	3,570	116	77,351	132,653
1962 . . . . .	10,928	42,165	1,288	149	55,453	123,983
1963 . . . . .	7,693	29,232	742	6,720	63,905	106,292
1964 . . . . .	5,947	15,121	110	9,153	56,937	89,268

<sup>1/</sup> CONSISTS PRINCIPALLY OF LANDINGS AT ROCKLAND, ME., DURING THE YEARS PRIOR TO 1947 AND AT ROCKLAND AND PORTLAND, ME., FOR THE YEARS FROM 1947 TO 1964, INCLUSIVE. DATA FOR 1958 INCLUDE LANDINGS AT ROCKLAND AND PORTLAND, ME., AND OFF LABRADOR. DATA WERE NOT COLLECTED ON THE AREA OF CAPTURE FOR THESE LANDINGS.



OCEAN PERCH

# HISTORICAL FISHERY STATISTICS

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## PACIFIC HERRING CATCH, PACIFIC COAST STATES, 1882-1964

(MILLIONS OF POUNDS)

YEAR	WASHINGTON, OREGON, AND CALIFORNIA	ALASKA	TOTAL
			QUANTITY
1882 . . . . .	{1}	3.0	{1}
1883 . . . . .	{1}	8.4	{1}
1884 . . . . .	{1}	19.2	{1}
1885 . . . . .	{1}	17.0	{1}
1886 . . . . .	{1}	22.0	{1}
1887 . . . . .	{1}	22.2	{1}
1888 . . . . .	{1}	6.0	{1}
1889 . . . . .	{1}	10.5	{1}
1890 . . . . .	{1}	10.5	{1}
1891 . . . . .	{1}	17.6	{1}
1892 . . . . .	5.1	18.7	23.8
1893 . . . . .	{1}	14.4	{1}
1894 . . . . .	{1}	15.3	{1}
1895 . . . . .	3.5	6.5	10.0
1896 . . . . .	{1}	5.6	{1}
1897 . . . . .	{1}	7.1	{1}
1898 . . . . .	{1}	9.0	{1}
1899 . . . . .	2.1	8.1	10.2
1900 . . . . .	{1}	13.0	{1}
1901 . . . . .	{1}	14.6	{1}
1902 . . . . .	{1}	9.5	{1}
1903 . . . . .	{1}	13.7	{1}
1904 . . . . .	2.0	16.0	18.0
1905 . . . . .	{1}	15.1	{1}
1906 . . . . .	{1}	10.2	{1}
1907 . . . . .	{1}	9.7	{1}
1908 . . . . .	3.3	12.2	15.5
1909 . . . . .	{1}	16.5	{1}
1910 . . . . .	{1}	13.7	{1}
1911 . . . . .	{1}	24.3	{1}
1912 . . . . .	{1}	32.1	{1}
1913 . . . . .	{1}	27.0	{1}
1914 . . . . .	{1}	16.9	{1}
1915 . . . . .	3.0	13.9	16.9
1916 . . . . .	{1}	22.7	{1}
1917 . . . . .	{1}	27.5	{1}
1918 . . . . .	{1}	47.7	{1}
1919 . . . . .	{1}	38.0	{1}
1920 . . . . .	{1}	54.4	{1}
1921 . . . . .	{1}	37.7	{1}
1922 . . . . .	0.6	62.5	83.1
1923 . . . . .	0.9	85.8	86.7
1924 . . . . .	0.6	100.6	101.2
1925 . . . . .	1.5	182.1	183.6
1926 . . . . .	3.3	178.6	181.9
1927 . . . . .	2.0	127.7	129.7
1928 . . . . .	2.7	163.1	165.8
1929 . . . . .	1.9	165.0	187.9
1930 . . . . .	1.4	189.9	190.2
1931 . . . . .	1.7	119.5	121.2
1932 . . . . .	1.5	146.8	150.3
1933 . . . . .	1.2	172.6	173.8
1934 . . . . .	1.1	203.3	204.4
1935 . . . . .	1.7	225.8	227.5
1936 . . . . .	1.9	209.1	211.0
1937 . . . . .	1.8	261.4	263.2
1938 . . . . .	0.9	231.0	231.9
1939 . . . . .	0.9	257.7	258.6
1940 . . . . .	1.1	111.4	112.5
1941 . . . . .	1.0	156.2	157.2
1942 . . . . .	0.3	46.0	46.3
1943 . . . . .	1.5	90.3	91.8
1944 . . . . .	1.1	139.1	140.2
1945 . . . . .	1.0	152.7	153.7
1946 . . . . .	1.0	217.2	218.2
1947 . . . . .	2.9	195.3	198.2
1948 . . . . .	8.6	171.0	179.6
1949 . . . . .	1.3	35.2	36.5
1950 . . . . .	1.9	168.4	170.3
1951 . . . . .	5.5	69.2	93.7
1952 . . . . .	10.2	45.5	55.7
1953 . . . . .	6.4	32.4	40.8
1954 . . . . .	1.2	35.3	36.5
1955 . . . . .	2.4	64.2	66.6
1956 . . . . .	2.3	107.4	109.7

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTE AT END OF TABLE.

# HISTORICAL FISHERY STATISTICS

## PACIFIC HERRING CATCH, PACIFIC COAST STATES, 1882-1964 - Continued

(MILLIONS OF POUNDS)

YEAR	WASHINGTON, OREGON, AND CALIFORNIA	ALASKA	TOTAL	
				QUANTITY
1857.	2.3	116.3	120.6	
1858.	10.7	65.8	99.5	
1859.	7.3	107.5	114.7	
1860.	5.9	77.9	83.8	
1861.	5.0	49.5	54.5	
1862.	7.7	33.9	41.6	
1863.	7.6	31.2	38.8	
1864.	4.3	47.9	52.2	

<sup>1/</sup> DATA NOT AVAILABLE.

## PACIFIC HERRING CATCH, WASHINGTON, OREGON, AND CALIFORNIA, VARIOUS YEARS, 1892-1964

(MILLIONS OF POUNDS)

YEAR	WASHINGTON	OREGON	CALIFORNIA	TOTAL	
					QUANTITY
1892.	0.6	-	4.5	5.1	
1895.	0.3	-	3.2	3.5	
1899.	0.4	(2)	1.7	2.1	
1904.	0.6	(2)	1.4	2.0	
1908.	5	(2)	0.8	3.3	
1915.	2.1	(2)	0.9	3.0	
1916.	(1)	(1)	7.9	(1)	
1919.	(1)	(1)	4.3	(1)	
1920.	(1)	(1)	0.3	(1)	
1921.	(1)	(1)	0.5	(1)	
1922.	0.3	-	0.3	0.6	
1923.	0.4	0.1	0.4	0.9	
1924.	0.2	-	0.4	0.6	
1925.	0.7	-	0.6	1.5	
1926.	2.6	-	0.5	3.3	
1927.	0	(2)	1.2	2.0	
1928.	1.5	(2)	1.2	2.7	
1929.	0.8	0.1	1.0	1.9	
1930.	0.5	0.1	0.8	1.4	
1931.	0.9	0.1	0.7	1.7	
1932.	0.8	(2)	0.7	1.5	
1933.	0.6	(2)	0.6	1.2	
1934.	0.3	(2)	0.8	1.1	
1935.	0.7	0.1	0.9	1.7	
1936.	1.0	(2)	0.9	1.9	
1937.	1.2	(2)	0.6	1.8	
1938.	0.4	(2)	0.5	0.9	
1939.	0.6	(2)	0.3	0.9	
1940.	0.5	0.1	0.5	1.1	
1941.	0.1	0.1	0.8	1.0	
1942.	(2)	0.1	0.2	0.3	
1943.	0.8	0.1	0.6	1.5	
1944.	0.6	0.1	0.4	1.1	
1945.	0.5	(2)	0.5	1.0	
1946.	0.4	0.1	0.5	1.0	
1947.	0.2	(2)	1.7	2.9	
1948.	0.5	0.1	8.0	8.6	
1949.	0.8	0.1	0.4	1.3	
1950.	0.4	0.1	1.4	1.9	
1951.	0.5	0.1	4.9	5.5	
1952.	0.7	(2)	9.5	10.2	
1953.	0.6	-	7.8	8.4	
1954.	0.3	(2)	0.9	1.2	
1955.	0.5	(2)	1.9	2.4	
1956.	0.5	(2)	1.8	2.3	
1957.	1.1	(2)	1.2	2.3	
1958.	0.3	(2)	2.4	10.7	
1959.	5.6	(2)	1.7	7.3	
1960.	4.1	(2)	1.8	5.9	
1961.	3.6	(2)	1.4	5.0	
1962.	6.4	(2)	1.3	7.7	
1963.	7.0	(2)	.6	7.6	
1964.	4.0	(2)	.3	4.3	

<sup>1/</sup> DATA NOT AVAILABLE. <sup>2/</sup> LESS THAN 50,000 POUNDS

# HISTORICAL FISHERY STATISTICS

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## PACIFIC HERRING CATCH, ALASKA BY DISTRICTS, 1882-1964

(MILLIONS OF POUNDS)

YEAR	SOUTHEASTERN ALASKA	CENTRAL ALASKA	WESTERN ALASKA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	
1882	{1}	{1}	{1}	3.0
1883	{1}	{1}	{1}	6.4
1884	{1}	{1}	{1}	13.2
1885	{1}	{1}	{1}	17.0
1886	{1}	{1}	{1}	22.0
1887	{1}	{1}	{1}	22.2
1888	{1}	{1}	{1}	6.0
1889	{1}	{1}	{1}	10.5
1890	{1}	{1}	{1}	10.5
1891	{1}	{1}	{1}	17.6
1892	{1}	{1}	{1}	10.3
1893	{1}	{1}	{1}	14.4
1894	{1}	{1}	{1}	15.3
1895	{1}	{1}	{1}	6.5
1896	{1}	{1}	{1}	5.6
1897	{1}	{1}	{1}	7.1
1898	{1}	{1}	{1}	9.0
1899	{1}	{1}	{1}	8.1
1900	{1}	{1}	{1}	13.0
1901	{1}	{1}	{1}	14.6
1902	{1}	{1}	{1}	9.5
1903	{1}	{1}	{1}	13.7
1904	{1}	{1}	{1}	16.0
1905	{1}	{1}	{1}	15.1
1906	{1}	{1}	{1}	10.2
1907	0.7	2.6	6.4	9.7
1908	0.8	2.0	9.4	12.2
1909	0.9	2.1	13.5	16.5
1910	13.6	0.1	-	13.7
1911	24.1	0.2	-	24.3
1912	32.1	-	-	32.1
1913	27.0	-	-	27.0
1914	16.6	0.3	-	16.9
1915	13.9	-	-	13.9
1916	22.4	0.3	-	22.7
1917	24.8	2.7	-	27.5
1918	35.6	12.1	-	47.7
1919	22.0	16.0	-	38.0
1920	32.9	21.5	-	54.4
1921	12.0	25.7	-	37.7
1922	34.0	48.4	0.1	82.5
1923	42.4	43.3	0.1	85.8
1924	58.7	41.7	0.2	100.6
1925	115.6	65.4	0.1	182.1
1926	147.7	30.7	0.2	178.6
1927	105.6	21.9	0.2	127.7
1928	130.5	22.3	10.3	163.1
1929	165.9	11.9	8.2	186.0
1930	150.9	31.4	6.5	188.8
1931	96.3	17.9	5.3	119.5
1932	105.1	40.1	3.6	148.8
1933	127.1	42.0	3.5	172.6
1934	138.8	60.2	4.3	203.3
1935	122.0	96.3	7.5	225.8
1936	79.1	12.2	3.8	207.1
1937	109.9	155.4	0.1	265.4
1938	50.8	178.6	1.4	231.0
1939	45.4	182.9	1.4	229.7
1940	6.2	103.9	1.3	111.4
1941	10.2	145.5	0.5	156.2
1942	7.4	38.6	-	46.0
1943	16.7	71.6	-	90.3
1944	36.8	100.3	-	139.1
1945	54.8	97.7	0.2	152.7
1946	61.1	136.0	0.1	217.2
1947	69.2	105.1	-	175.3
1948	37.4	133.6	-	171.0
1949	34.9	0.3	-	35.2
1950	31.4	137.0	-	168.4
1951	26.0	60.2	-	86.2
1952	36.2	9.3	-	45.5
1953	30.8	1.6	-	32.4
1954	16.4	18.9	-	35.3
1955	29.0	35.2	-	64.2
1956	50.0	57.4	-	107.4
1957	49.5	68.8	-	118.3
1958	77.6	11.2	-	86.8
1959	99.8	7.6	-	107.4
1960	77.8	1.1	-	77.9
1961	49.5	{2}	-	49.5
1962	33.9	{2}	-	33.9
1963	31.2	{2}	-	31.2
1964	46.7	1.2	-	47.9

1/ DATA NOT AVAILABLE. 2/ LESS THAN 50,000 POUNDS.

SOURCE--DATA FOR THE YEARS FROM 1882 TO 1955 WERE TAKEN FROM OCEAN RESEARCH NOTE 4 ENTITLED "HISTORICAL CATCH STATISTICS ON PACIFIC HERRING" WHICH WAS PREPARED FROM VARIOUS SOURCES BY O. E. SETTE, BIOLOGICAL LABORATORY DIRECTOR FOR OCEAN RESEARCH, STANFORD UNIVERSITY. DATA FOR THE YEARS FOLLOWING 1955 ARE FROM "FISHERY STATISTICS OF THE UNITED STATES."

# HISTORICAL FISHERY STATISTICS

## UNITED STATES AND PUERTO RICO TUNA CATCH BY AREAS, 1944-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	ATLANTIC AND GULF COAST STATES		PACIFIC COAST STATES		HAWAII	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1944.	829	115	166,320	19,565	(1)	(1)
1945.	1,676	247	180,873	21,381	(1)	(1)
1946.	1,524	104	214,509	25,927	7,125	1,552
1947.	1,749	141	253,941	41,649	7,486	1,784
1948.	3,599	274	316,003	58,695	9,868	2,091
1949.	3,468	259	339,593	52,974	11,097	1,976
1950.	1,563	123	389,891	61,119	11,918	2,776
1951.	2,479	184	316,433	47,623	15,726	2,569
1952.	1,896	172	320,798	49,062	10,459	2,036
1953.	2,013	126	300,791	46,726	15,556	2,521
1954.	1,515	114	321,181	52,899	17,335	2,575
1955.	1,004	59	269,362	39,435	11,958	1,896
1956.	878	131	328,604	43,290	13,720	2,066
1957.	1,700	189	295,035	37,334	8,156	1,526
1958.	3,114	292	316,263	42,592	8,655	1,643
1959.	3,245	196	268,330	35,000	14,334	2,233
1960.	1,438	91	269,575	55,527	9,303	1,734
1961.	2,371	133	310,970	40,226	12,463	1,957
1962.	7,214	547	293,880	42,644	11,063	1,921
1963.	14,768	957	297,343	37,455	9,508	1,758
1964.	9,111	722	286,311	36,766	10,407	1,910

YEAR	TOTAL, UNITED STATES		PUERTO RICO		TOTAL, UNITED STATES AND PUERTO RICO	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1944.	(1)	(1)	(1)	(1)	(1)	(1)
1945.	(1)	(1)	(1)	(1)	(1)	(1)
1946.	223,158	27,583	(1)	(1)	(1)	(1)
1947.	263,170	43,573	(1)	(1)	(1)	(1)
1948.	329,470	61,060	(1)	(1)	(1)	(1)
1949.	340,786	55,903	(1)	(1)	(1)	(1)
1950.	403,432	63,418	(1)	(1)	(1)	(1)
1951.	334,637	50,376	(1)	(1)	(1)	(1)
1952.	333,153	51,270	(1)	(1)	(1)	(1)
1953.	318,360	49,373	2,704	(1)	321,064	(1)
1954.	340,031	55,588	6,388	(1)	346,419	(1)
1955.	282,324	41,390	9,549	(1)	291,873	(1)
1956.	343,202	45,487	12,000	(1)	355,202	(1)
1957.	304,891	39,051	18,393	(1)	323,264	(1)
1958.	328,232	44,826	16,652	(1)	344,654	(1)
1959.	285,905	37,429	22,750	(1)	317,990	(1)
1960.	295,203	37,711	20,910	(1)	316,133	(1)
1961.	300,604	40,346	31,050	(1)	356,854	(1)
1962.	312,157	45,112	28,790	(1)	340,947	(1)
1963.	321,619	40,170	37,026	3,720	358,645	43,890
1964.	305,829	39,398	48,393	4,961	354,222	44,359

<sup>1/</sup> DATA NOT AVAILABLE. THE FIRST TUNA CANNERY IN PUERTO RICO BEGAN OPERATIONS IN 1953.



Señor JACK T. RIBA

# HISTORICAL FISHERY STATISTICS

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## UNA CATCH BY SPECIES, ATLANTIC AND GULF COAST STATES, 1930-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	BLUEFIN		LITTLE		SKIPJACK	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1930.	296	19	-	-	-	-
1931.	321	22	-	-	-	-
1932.	315	15	-	-	-	-
1933.	444	20	-	-	-	-
1934.	(1)	(1)	-	-	-	-
1935.	562	16	-	-	-	-
1936.	(1)	(1)	-	-	-	-
1937.	1,023	36	-	-	-	-
1938.	1,823	68	-	-	-	-
1939.	949	35	-	-	-	-
1940.	1,155	40	-	-	-	-
1941.	2/ 1,049	37	-	-	-	-
1942.	827	75	-	-	-	-
1943.	3/ 460	65	-	-	-	-
1944.	829	115	-	-	-	-
1945.	1,374	241	302	6	-	-
1946.	4/ 1,164	94	340	10	-	-
1947.	1,057	114	662	27	-	-
1948.	2,997	214	602	60	-	-
1949.	2,380	207	700	52	-	-
1950.	1,257	112	296	11	-	-
1951.	1,760	131	371	8	-	-
1952.	565	58	747	30	5/ 172	21
1953.	1,945	123	68	3	-	-
1954.	1,428	109	72	3	-	-
1955.	897	55	107	4	-	-
1956.	456	84	88	5	-	-
1957.	1,001	107	33	2	-	-
1958.	2,476	214	13	(6)	-	-
1959.	2,500	159	179	6	-	-
1960.	1,403	81	15	{6}	-	-
1961.	2,369	133	3	{6}	-	-
1962.	7,075	537	17	{6}	85	6
1963.	10,012	585	12	1	4,277	314
1964.	6,440	482	4	(6)	2,267	195

YEAR	YELLOWFIN		UNCLASSIFIED		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1930.	-	-	-	-	296	19
1931.	-	-	-	-	321	22
1932.	-	-	-	-	315	15
1933.	-	-	-	-	444	20
1934.	-	-	-	-	(1)	(1)
1935.	-	-	-	-	562	16
1936.	-	-	-	-	(1)	(1)
1937.	-	-	-	-	1,023	36
1938.	-	-	-	-	1,823	68
1939.	-	-	-	-	949	35
1940.	-	-	-	-	1,155	40
1941.	-	-	-	-	2/ 1,049	37
1942.	-	-	-	-	827	75
1943.	-	-	-	-	3/ 460	65
1944.	-	-	-	-	829	115
1945.	-	-	-	-	1,676	247
1946.	-	-	-	-	1,524	104
1947.	-	-	-	-	1,749	141
1948.	-	-	-	-	3,599	274
1949.	-	-	-	-	3,460	259
1950.	-	-	-	-	1,563	123
1951.	5/ 348	45	-	-	2,479	184
1952.	412	63	-	-	1,896	172
1953.	-	-	-	-	2,013	126
1954.	15	2	-	-	1,515	114
1955.	-	-	-	-	1,004	59
1956.	332	42	-	-	878	131
1957.	666	80	-	-	1,700	189
1958.	625	78	-	-	3,114	292
1959.	246	31	-	-	3,246	195
1960.	-	-	-	-	1,416	81
1961.	-	-	-	-	2,371	133
1962.	37	4	11	1	7,214	547
1963.	456	56	123	9	14,765	957
1964.	277	36	-	-	9,111	722

1/ DATA NOT AVAILABLE. 2/ AS A DETAILED SURVEY WAS NOT CONDUCTED IN THE NEW ENGLAND AND MIDDLE ATLANTIC STATES TOS (1941). DATA ON THE BLUEFIN CATCH FOR 1940 HAVE BEEN USED EXCEPT FOR LANDINGS AT BOSTON AND GLOUCESTER, MASSACHUSETTS, AND PORTLAND, MAINE, FOR WHICH 1941 DATA WERE AVAILABLE. 3/ INCLUDES 1942 DATA FOR THE CHESAPEAKE BAY STATES AS NO SURVEY WAS MADE IN THIS AREA IN 1943. 4/ INCLUDES 1945 DATA FOR NEW JERSEY AND DELAWARE AS NO SURVEY WAS MADE IN THESE STATES FOR 1946. 5/ FISH WERE CAUGHT IN THE PACIFIC AREA, BUT LANDED ON THE ATLANTIC OR GULF COASTS. 6/ LESS THAN \$500.

# HISTORICAL FISHERY STATISTICS

## TUNA CATCH BY SPECIES, PACIFIC COAST STATES, 1911-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	ALBACORE		BLUEFIN		SKIPJACK		YELLOWFIN		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1911	853	5	-	-	-	-	-	-	850	5
1912	3,400	20	-	-	-	-	-	-	3,400	20
1913	6,600	53	-	-	-	-	-	-	6,600	53
1914	18,470	222	-	-	-	-	-	-	18,470	222
1915	21,074	316	-	-	-	-	-	-	21,074	316
1916	22,999	2/ 800	3/20,540	3/ 700	(3)	(3)	(3)	(3)	43,439	1,500
1917	30,556	2/1,222	1,150	25	420	11	-	-	32,126	1,258
1918	7,265	400	6,240	218	3,024	91	-	-	16,529	709
1919	13,631	845	14,991	(4)	6,897	241	348	(4)	35,867	(4)
1920	16,877	1,982	10,530	(4)	7,957	376	1,965	(4)	39,329	(4)
1921	15,277	1,222	2,032	(4)	11,139	25	1,238	(4)	19,685	(4)
1922	13,222	1,581	2,948	(4)	11,862	270	7,377	(4)	35,269	(4)
1923	12,515	1,627	5,301	(4)	11,463	298	10,837	(4)	32,116	(4)
1924	17,695	1,829	3,241	(4)	3,781	179	3,063	(4)	27,780	(4)
1925	22,207	2,333	3,804	(4)	14,235	752	13,238	(4)	53,484	(4)
1926	2,469	2/ 222	6,527	(4)	20,995	873	12,565	591	42,596	(4)
1927	4,579	517	4,698	312	33,807	1,261	25,934	1,304	69,218	3,394
1928	283	42	13,701	823	15,815	562	32,251	1,774	62,050	3,201
1929	269	40	7,527	490	26,998	1,081	37,399	2,200	72,193	3,811
1930	286	24	21,921	1,238	20,486	790	56,654	3,396	99,347	5,448
1931	37	3	3,534	169	16,507	504	36,580	1,979	56,658	2,655
1932	620	31	1,071	51	21,637	751	35,923	1,505	61,251	2,338
1933	2	(5)	560	29	16,667	613	51,076	2,275	68,325	2,917
1934	121	9	18,848	546	14,132	554	80,522	3,032	94,722	4,522
1935	2,448	200	22,173	1,145	17,197	688	76,252	3,220	117,070	5,634
1936	984	91	18,925	922	26,992	1,191	78,353	4,139	215,254	6,343
1937	3,520	287	12,694	725	47,104	2,319	91,523	3,458	154,841	8,789
1938	17,726	966	17,728	983	22,654	1,133	78,318	4,705	136,426	7,787
1939	18,922	1,009	11,836	602	33,121	1,300	110,416	5,912	171,297	8,823
1940	14,502	995	19,970	1,117	56,650	2,743	113,760	6,707	204,882	11,563
1941	11,932	1,712	9,519	581	25,586	1,362	76,702	4,851	123,739	8,506
1942	23,540	4,566	12,645	1,159	38,735	3,335	41,467	3,636	116,587	12,896
1943	37,518	6,104	10,178	967	28,894	2,584	49,262	4,881	125,652	14,535
1944	52,795	8,665	20,344	1,939	30,037	2,684	63,144	6,259	166,320	19,569
1945	59,753	7,777	20,344	1,934	23,448	2,242	67,078	6,718	184,722	21,701
1946	24,142	4,784	22,032	2,246	41,095	4,283	127,247	14,114	214,509	29,927
1947	26,644	6,780	20,638	327	52,749	4,628	153,510	23,919	253,941	41,648
1948	5/49,493	14,659	6,529	1,096	60,554	9,534	199,427	33,406	316,003	58,695
1949	54,794	10,039	4,389	713	80,512	11,923	190,544	30,999	330,239	53,674
1950	7/2,453	13,839	2,762	426	126,786	18,131	187,930	28,823	389,891	61,219
1951	34,491	5,403	3,662	604	116,599	16,655	161,481	24,961	316,433	47,623
1952	52,558	9,146	4,577	733	84,844	10,908	178,819	25,275	320,798	49,062
1953	34,700	6,920	9,773	1,550	122,978	16,943	133,340	21,313	300,791	46,726
1954	26,998	5,426	21,028	3,553	153,756	23,345	119,402	20,575	321,181	52,899
1955	29,338	4,826	13,609	1,941	102,607	13,799	123,208	18,869	269,362	39,435
1956	41,153	7,082	22,626	1,653	123,177	14,189	109,073	20,369	328,604	43,290
1957	46,259	6,332	20,571	6,021	101,171	13,244	182,242	29,955	374,247	57,874
1958	39,445	7,897	30,719	4,029	123,372	14,239	123,727	16,727	317,263	42,892
1959	46,284	8,631	15,194	1,876	98,482	10,424	108,370	14,069	268,330	35,000
1960	40,202	5,939	11,952	1,456	46,304	4,791	189,307	23,566	267,765	35,752
1961	32,833	5,863	20,883	2,705	65,403	7,219	191,854	24,439	310,970	40,226
1962	45,938	7,602	31,200	4,368	92,721	11,922	124,021	18,752	293,880	42,644
1963	60,787	9,159	30,353	3,392	96,620	10,374	109,583	14,530	297,343	37,455
1964	48,061	7,466	23,171	2,827	66,059	6,624	149,020	19,849	266,311	36,766

<sup>1/</sup> ESTIMATED ON THE BASIS OF PACK AS REPORTED BY TUNA CANNERS.

<sup>2/</sup> ESTIMATED.

<sup>3/</sup> THE CATCH OF SKIPJACK AND YELLOWFIN HAS BEEN INCLUDED WITH THAT OF BLUEFIN.

<sup>4/</sup> DATA NOT AVAILABLE.

<sup>5/</sup> LESS THAN \$500.

<sup>6/</sup> INCLUDES 132,000 POUNDS, VALUED AT \$32,000 LANDED IN ALASKA.

<sup>7/</sup> INCLUDES 39,000 POUNDS, VALUED AT \$4,000 LANDED IN ALASKA.

NOTE--HAWAII LANDINGS OF TUNA ARE NOT INCLUDED IN THIS TABLE. DATA FROM 1911 TO 1923 BASED ON STATISTICS PUBLISHED BY THE BUREAU OF FISHERIES, THE CALIFORNIA BUREAU OF MARINE FISHERIES (FISH BULLETIN NO. 74), AND THE U. S. TARIFF COMMISSION IN THEIR REPORT TO THE U. S. SENATE ON TUNA FISH, REPORT NO. 109, SECOND SERIES.

# HISTORICAL FISHERY STATISTICS

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## TUNA CATCH BY SPECIES AND GEAR, PACIFIC COAST STATES, 1936-64

(THOUSANDS OF POUNDS)

YEAR	ALBACORE				BLUEFIN			
	SEINES	LINES	OTHER	TOTAL	SEINES	LINES	OTHER	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1936.	33	951	-	984	18,422	503	-	18,925
1937.	87	3,433	{1}	3,520	12,521	173	{1}	12,694
1938.	14	17,712	{1}	17,726	17,749	480	{1}	17,728
1939.	169	18,575	{1}	19,144	19,578	157	1	19,565
1940.	157	14,345	-	14,502	19,904	60	6	19,970
1941.	7	11,923	2	11,932	9,107	411	1	9,519
1942.	10	23,530	-	23,540	12,820	24	1	12,845
1943.	8	37,510	-	37,518	10,154	24	{1}	10,178
1944.	9	52,773	13	52,795	20,319	25	{1}	20,344
1945.	5	39,478	-	39,483	20,441	150	3	20,594
1946.	53	24,059	-	24,142	21,944	88	{1}	22,032
1947.	41	26,803	-	26,844	20,706	132	-	20,838
1948.	32	2/49,461	-	2/49,493	6,519	10	-	6,529
1949.	215	54,579	-	54,579	4,344	62	-	4,359
1950.	8	3/72,445	-	3/72,453	2,722	40	-	2,722
1951.	12	4,579	-	4,579	3,958	4	-	3,952
1952.	7	52,551	-	52,558	4,575	2	-	4,577
1953.	1	34,699	-	34,700	9,754	19	-	9,773
1954.	-	26,998	-	26,998	21,008	17	-	21,025
1955.	-	29,738	-	29,738	13,479	130	-	13,609
1956.	-	41,338	-	41,338	12,626	-	-	12,626
1957.	36	46,623	-	46,659	20,315	-	-	20,315
1958.	-	38,445	-	38,445	30,667	52	-	30,719
1959.	2	46,282	-	46,284	15,194	-	-	15,194
1960.	30	40,151	-	40,151	14,021	-	-	14,022
1961.	2,000	30,930	-	32,930	20,683	-	-	20,683
1962.	732	45,206	-	45,938	31,200	-	-	31,200
1963.	2,741	58,046	-	60,787	30,353	-	-	30,353
1964.	368	47,673	-	48,061	23,097	74	-	23,171
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YEAR	SKIPJACK				YELLOWFIN			
	SEINES	LINES	OTHER	TOTAL	SEINES	LINES	OTHER	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1936.	2,268	24,724	-	26,992	5,002	73,391	-	78,393
1937.	6,523	40,581	-	47,104	9,247	82,276	-	91,523
1938.	1,442	21,212	-	22,654	4,013	74,305	-	78,318
1939.	6,169	23,952	-	30,121	19,344	91,074	-	110,418
1940.	13,098	43,552	-	56,650	15,237	98,523	-	113,760
1941.	1,802	23,784	-	25,586	5,431	71,271	-	76,702
1942.	1,258	37,477	-	38,735	4,257	37,210	-	41,457
1943.	1,123	27,771	-	28,694	6,912	42,350	-	49,262
1944.	3,730	26,307	-	30,037	10,105	53,039	-	63,144
1945.	4,240	29,108	-	33,348	18,175	69,273	{1}	87,448
1946.	9,936	31,422	{1}	41,368	27,798	99,269	-	127,247
1947.	8,284	44,465	-	52,749	29,414	124,166	-	153,510
1948.	5,933	54,619	-	60,554	30,939	159,488	-	199,427
1949.	4,155	76,357	-	80,512	26,543	160,001	-	200,544
1950.	11,875	114,911	-	126,786	39,679	148,211	-	187,890
1951.	12,854	103,745	-	116,599	14,530	146,951	-	161,481
1952.	10,764	74,080	-	84,844	30,748	148,071	-	178,819
1953.	11,654	111,324	-	122,978	37,440	95,900	-	133,340
1954.	18,664	135,092	-	153,756	22,099	97,313	-	119,402
1955.	13,760	69,047	-	102,807	29,325	93,883	-	123,208
1956.	6,173	116,744	-	123,717	40,105	110,818	-	150,923
1957.	6,290	64,531	-	90,821	33,230	104,010	-	137,240
1958.	11,582	111,144	-	123,742	34,264	89,268	-	123,727
1959.	10,218	87,564	-	98,482	51,304	57,636	-	106,770
1960.	18,284	28,020	-	46,304	143,873	45,434	-	189,307
1961.	46,436	18,967	-	65,403	164,995	26,859	-	191,854
1962.	79,006	13,715	-	92,721	105,473	18,548	-	124,021
1963.	84,786	11,834	-	96,620	97,245	12,338	-	109,583
1964.	57,969	9,090	-	66,059	140,116	8,904	-	149,020

1/ LESS THAN 500 POUNDS.

2/ INCLUDES 132,000 POUNDS LANDED IN ALASKA.

3/ INCLUDES 39,000 POUNDS LANDED IN ALASKA.

# HISTORICAL FISHERY STATISTICS

## TUNA CATCH BY SPECIES AND AREA OF CAPTURE, PACIFIC COAST STATES, 1911-64

(THOUSANDS OF POUNDS)

YEAR	ALBACORE		BLUEFIN		SKIPJACK		YELLOWFIN		TOTAL	
	OFF PACIFIC COAST STATES	OFF LATIN AMERICA								
1911	2/ <sup>1</sup> 850	-	-	-	-	-	-	-	2/ <sup>1</sup> 850	-
1912	2/ <sup>2</sup> 3,400	-	-	-	-	-	-	-	2/ <sup>2</sup> 3,400	-
1913	2/ <sup>3</sup> 5,600	-	-	-	-	-	-	-	2/ <sup>3</sup> 5,600	-
1914	2/ <sup>4</sup> 18,470	-	-	-	-	-	-	-	2/ <sup>4</sup> 18,470	-
1915	21,074	-	-	-	-	-	-	-	21,074	-
1916	22,899	-	3/20,540	(3)	-	(3)	-	-	43,439	-
1917	33,556	-	1,150	420	-	-	-	-	32,126	-
1918	7,263	2	6,240	3,024	-	-	-	-	16,527	2
1919	13,551	80	14,991	6,882	15	348	-	-	35,772	95
1920	18,877	-	10,530	7,939	18	1,465	500	38,811	518	39,326
1921	15,235	2	1,972	60	1,197	(4)	1,185	1,50	19,574	112
1922	13,233	-	2,811	27	10,171	1,745	1,177	6,160	27,337	7,932
1923	12,488	-	1,286	83	579	6,884	1,044	10,443	20,779	1,700
1924	17,280	415	5,241	-	1,356	2,425	619	2,444	22,496	5,284
1925	21,685	522	3,804	-	8,768	5,467	2,923	3,105	37,180	16,304
1926	2,469	(4)	6,527	-	14,261	6,734	2,695	9,870	25,952	15,604
1927	4,455	124	4,898	(4)	5,804	28,003	595	25,339	15,752	53,466
1928	283	-	13,701	-	4,263	11,552	83	32,166	18,330	43,720
1929	269	(4)	7,477	50	8,032	18,966	199	37,200	15,977	56,216
1930	286	-	15,599	6,322	3,015	17,471	36	56,618	18,936	80,411
1931	37	-	2,358	1,176	11,966	4,541	155	36,425	14,516	42,142
1932	620	-	460	611	375	21,262	165	36,758	1,620	58,631
1933	2	-	524	236	(4)	16,682	51,060	333	67,992	68,321
1934	121	-	18,922	66	4,150	19	60,894	18,750	75,793	94,622
1935	2,387	61	16,496	6,677	1,908	15,289	529	71,723	23,320	103,550
1936	984	-	13,809	5,116	8,457	18,535	767	77,586	24,017	103,237
1937	3,520	-	10,822	1,872	1,884	45,220	188	91,335	16,414	138,427
1938	17,596	30	16,512	1,216	22,651	11	78,307	34,222	102,204	136,425
1939	18,918	4	9,319	2,517	2,719	27,402	457	109,961	31,413	139,884
1940	14,501	1	18,850	1,120	2,985	55,665	238	113,522	36,574	168,308
1941	11,932	-	8,848	671	4,215	21,371	2	76,700	24,997	98,742
1942	20,916	10	332	2,513	218	36,517	1	41,466	31,457	85,120
1943	26,019	9,499	7,664	2,514	18	28,876	49,260	35,703	63,144	123,739
1944	43,020	9,775	16,084	4,200	4	30,033	(4)	63,144	59,108	107,212
1945	27,442	12,262	14,139	6,435	93	33,293	5	87,433	41,583	166,320
1946	15,180	8,152	15,239	5,503	1,747	39,841	33	18,214	32,489	193,509
1947	21,082	5,762	17,756	6,082	993	81,856	3	152,507	26,734	211,267
1948	5/23,567	25,926	16,694	4,835	319	60,235	(4)	199,427	25,580	290,423
1949	31,217	23,577	2,266	2,123	27	80,485	10	190,534	33,520	296,719
1950	5/48,877	23,576	32	2,730	2,281	124,505	6,520	181,370	57,710	332,181
1951	16,859	17,622	837	3,025	706	115,893	1,235	160,246	19,647	296,786
1952	25,860	26,698	907	3,670	109	84,735	381	178,438	27,257	293,541
1953	14,209	20,491	3,904	5,666	669	122,309	1,254	132,082	20,036	280,755
1954	15,180	11,818	5,648	15,377	14	135,742	-	119,402	20,842	300,339
1955	10,048	19,690	2,670	10,939	970	101,837	916	122,292	14,604	254,758
1956	20,744	21,064	2,112	10,444	3,565	120,152	1,642	149,281	28,093	300,511
1957	25,747	20,912	18,486	9,829	60	90,125	3,520	135,855	23,771	295,035
1958	37,720	25	15,280	15,439	3,016	100,356	727	123,200	51,743	252,500
1959	46,284	-	13,025	2,169	1,382	91,100	62	108,288	60,773	207,557
1960	37,215	2,987	4,339	7,614	24	46,280	10	189,296	41,586	246,177
1961	24,445	8,385	13,763	7,120	1	65,402	(4)	191,854	38,209	272,761
1962	41,362	4,576	17,040	14,160	-	92,721	124,021	58,402	235,478	293,880
1963	53,853	6,934	7,131	23,222	2,224	94,396	60	109,523	63,268	234,075
1964	59,378	8,683	4,655	18,516	4	66,055	(4)	149,020	44,037	242,274
										286,311

<sup>1/</sup> INCLUDES THE CATCH TAKEN OFF BRITISH COLUMBIA.

<sup>2/</sup> ESTIMATED ON THE BASIS OF PACK AS REPORTED BY TUNA CANNERS.

<sup>3/</sup> THE CATCH OF SKIPJACK AND YELLOWFIN HAS BEEN INCLUDED WITH THAT OF BLUEFIN.

<sup>4/</sup> LESS THAN 500 POUNDS.

<sup>5/</sup> INCLUDES A CATCH OF 132,000 POUNDS LANDED IN ALASKA.

<sup>b/</sup> INCLUDES A CATCH OF 39,000 POUNDS LANDED IN ALASKA.  
 NOTE--DATA FROM 1911 TO 1923 BASED ON STATISTICS PUBLISHED BY THE BUREAU OF FISHERIES, THE CALIFORNIA BUREAU OF MARINE FISHERIES (FISH REPORT NO. 74), AND THE U. S. TARIFF COMMISSION IN THEIR REPORT TO THE U. S. SENATE ON TUNA FISH, REPORT NO. 109, SECOND SERIES.

# HISTORICAL FISHERY STATISTICS

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## TUNA CATCH BY SPECIES, HAWAII, 1946-64

(THOUSANDS OF POUNDS AND THOUSANDS OF DOLLARS)

YEAR	ALBACORE		BLUEFIN 1/		LITTLE	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1946	(2)	(2)	2/1,495	2/498	-	-
1947	(2)	(2)	1/1,750	1/577	135	37
1948	(2)	(2)	1,875	600	-	-
1949	(2)	(2)	2,013	715	-	-
1950	61	12	1,923	547	-	-
1951	56	14	2,035	601	-	-
1952	105	24	2,206	688	-	-
1953	49	9	2,826	761	-	-
1954	29	5	2,759	672	-	-
1955	21	4	2,153	687	-	-
1956	13	4	2,271	714	-	-
1957	10	3	1,633	620	-	-
1958	16	4	1,596	622	-	-
1959	11	2	1,357	574	19	4
1960	9	3	1,296	591	4	1
1961	14	4	1,037	508	2	(3)
1962	17	4	1,221	598	13	2
1963	15	5	948	502	60	8
1964	9	3	839	494	35	6

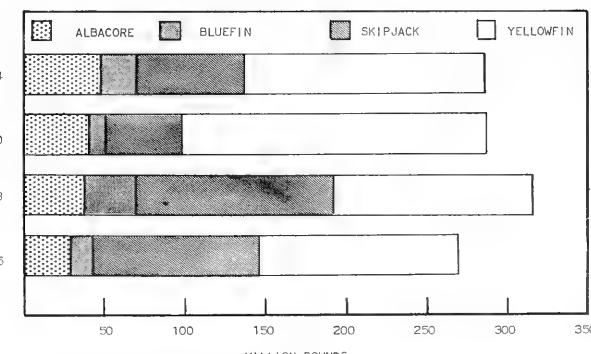
YEAR	SKIPJACK		YELLOWFIN		TOTAL	
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
1946	5,630	1,054	(2)	(2)	7,125	1,552
1947	5,586	970	(2)	(2)	7,480	1,784
1948	7,993	1,291	(2)	(2)	9,868	2,091
1949	9,066	1,255	(2)	(2)	11,079	1,970
1950	9,312	1,317	722	200	11,918	2,076
1951	12,877	1,728	757	226	15,225	2,269
1952	7,232	1,064	856	260	10,459	2,036
1953	12,559	1,594	622	157	15,556	2,521
1954	14,021	1,761	526	137	17,335	2,575
1955	9,340	1,065	444	140	11,958	1,896
1956	11,132	1,262	304	86	13,720	2,066
1957	6,130	794	383	111	8,156	1,528
1958	6,835	899	408	117	8,855	1,642
1959	12,413	1,475	569	178	14,334	2,233
1960	7,356	1,001	355	152	9,020	1,738
1961	10,951	1,307	459	168	12,463	1,997
1962	9,415	1,174	397	143	11,003	1,921
1963	8,100	1,090	385	103	9,108	1,758
1964	9,024	1,222	500	185	10,407	1,910

1/ INCLUDES THE CATCH OF BIGEYE TUNA.

2/ THE CATCH OF ALBACORE AND YELLOWFIN HAS BEEN INCLUDED WITH THAT OF BLUEFIN TUNA.

3/ LESS THAN \$500.

## PACIFIC COAST TUNA CATCH, VARIOUS YEARS, 1955-64



# HISTORICAL FISHERY STATISTICS

## SHRIMP LANDINGS, SOUTH ATLANTIC STATES, VARIOUS YEARS, 1880-1964

(THOUSANDS OF POUNDS)

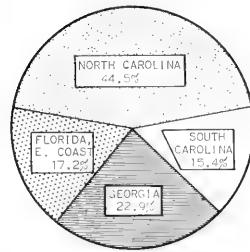
YEAR	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA			TOTAL, EXCLUSIVE OF FLORIDA WEST COAST
				EAST COAST	WEST COAST	TOTAL	
1880,	63	630	56	72	1,172	1,244	821
1887,	120	338	165	-	(1)	(1)	(1)
1888,	124	359	191	152	(1)	(1)	(1)
1889,	135	380	150	78	-	78	743
1890,	144	372	162	66	-	65	744
1897,	146	374	65	39	-	39	627
1902,	94	570	344	3,013	17	3,030	3,030
1903,	371	452	528	4,346	7	4,353	5,697
1918,	940	55	5,793	8,868	3,250	12,118	15,656
1923,	1,658	355	10,688	11,024	2,881	13,905	23,725
1927,	1,276	1,657	12,280	14,779	2,390	17,169	29,992
1928,	845	431	9,526	23,507	2,877	25,384	33,309
1929,	897	288	12,378	17,266	1,353	18,619	30,829
1930,	1,299	793	8,853	15,260	1,589	16,849	26,205
1931,	338	2,635	5,471	17,050	1,803	18,853	25,494
1932,	292	1,501	3,602	17,068	1,068	16,136	23,463
1934,	2,564	1,801	6,843	14,753	1,539	16,292	25,961
1936,	3,915	1,101	9,115	16,503	1,725	20,225	33,597
1937,	4,184	1,201	10,504	12,847	1,490	14,037	27,565
1939,	4,569	5,723	10,426	8,847	1,296	10,143	27,565
1940,	4,811	4,090	10,802	7,982	800	6,782	27,685
1945,	10,614	4,696	16,392	11,879	1,783	13,652	43,581
1950,	6,311	7,746	11,157	9,267	13,639	22,906	36,481
1951,	6,200	3,730	7,608	8,233	29,756	37,999	27,771
1952,	6,713	4,072	5,991	6,895	37,130	44,025	25,671
1953,	14,645	5,056	7,535	5,667	52,804	58,471	32,933
1954,	9,182	6,644	7,742	5,078	45,800	50,878	28,646
1955,	10,324	6,16	7,151	4,156	46,987	52,734	28,599
1956,	6,243	5,589	7,991	5,995	49,115	54,110	28,518
1957,	7,593	6,690	8,789	5,179	41,921	47,100	28,590
1958,	2,519	6,615	8,746	5,504	45,606	51,110	22,584
1959,	6,378	7,515	7,602	4,511	32,252	36,763	26,006
1960,	5,988	8,030	10,403	6,793	44,464	51,257	31,214
1961,	3,016	3,907	6,810	6,016	36,069	42,085	19,749
1962,	5,805	6,474	8,610	5,189	32,146	37,335	26,078
1963,	3,374	2,201	5,448	4,506	34,941	39,447	15,529
1964,	4,279	2,632	5,939	4,491	39,966	44,457	17,341

1/ DATA NOT AVAILABLE.

NOTE:--ALL WEIGHTS ARE ON A HEADS-ON BASIS. PRIOR TO 1942, IT WAS THE PRACTICE OF THE BUREAU TO CREDIT THE ENTIRE CATCH OF A VESSEL TO THE PRINCIPAL PORT WHERE IT WAS UNLOADED, REGARDLESS OF THE ACTUAL POINT OF LANDINGS. BECAUSE OF THIS POLICY, A PORTION OF THE SOUTH ATLANTIC SHRIMP CATCH IN CERTAIN YEARS WAS CREDITED TO NEW YORK AND NEW JERSEY.

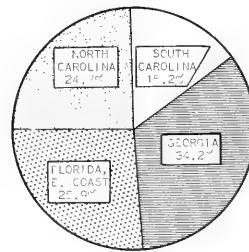
### SOUTH ATLANTIC SHRIMP CATCH, 1953 AND 1964

1953



32,933,000 POUNDS

1964



17,341,000 POUNDS

# HISTORICAL FISHERY STATISTICS

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## SHRIMP LANDINGS, GULF STATES, VARIOUS YEARS, 1880-1964

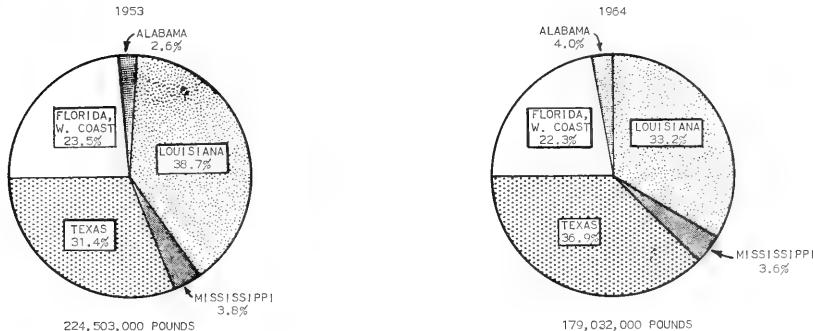
YEAR	FLORIDA, WEST COAST	ALABAMA	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	
1880.	1,172	{1}	{1}	534	638	{1}
1887.	{1}	{1}	1,145	6,810	255	{1}
1888.	{1}	44	1,093	6,943	259	{1}
1889.	-	30	794	7,238	242	8,304
1890.	-	-	614	6,662	176	7,452
1897.	-	41	1,903	4,487	361	6,792
1902.	17	{2}	4,424	7,635	291	12,367
1908.	7	37	4,121	8,581	118	12,864
1912.	3,250	1,266	0,177	16,520	164	32,347
1922.	2,881	3,182	9,379	27,743	3,422	47,117
1927.	2,390	5,162	9,234	40,259	11,632	68,877
1928.	2,877	5,972	11,768	53,779	7,774	82,170
1929.	1,353	4,396	13,102	49,456	9,415	77,722
1930.	1,589	2,952	8,489	38,664	10,189	61,913
1931.	1,803	2,475	17,716	35,148	13,914	70,956
1932.	1,068	3,382	14,010	38,096	9,244	65,800
1934.	1,539	4,557	15,330	55,572	16,359	93,357
1936.	1,789	1,869	17,493	53,430	9,952	84,543
1937.	1,490	3,104	23,558	68,781	16,905	113,838
1938.	1,296	3,646	9,928	81,379	16,365	112,586
1939.	803	2,124	5,675	100,122	11,173	120,385
1940.	942	4,565	8,566	98,986	14,779	127,638
1945.	1,763	4,439	6,595	116,904	15,722	145,443
1948.	{1}	2,939	4,204	88,249	22,416	{1}
1949.	1,634	2,654	2,841	85,707	33,668	126,514
1950.	13,639	5,007	9,460	77,835	45,812	151,753
1951.	29,756	6,356	7,475	85,718	64,346	193,651
1952.	37,130	6,208	6,800	83,104	65,026	198,268
1953.	52,804	5,806	8,517	86,941	70,435	224,503
1954.	45,800	6,226	8,261	83,608	93,259	237,153
1955.	48,598	6,676	13,617	71,994	71,517	212,402
1956.	49,975	7,668	10,912	60,792	65,134	193,621
1957.	41,921	5,039	9,350	34,763	76,253	169,553
1958.	45,606	5,308	6,476	41,008	74,956	173,354
1959.	32,232	8,018	11,319	57,353	64,561	193,503
1960.	44,464	7,169	11,031	61,758	81,303	205,725
1961.	36,069	3,525	4,408	31,027	58,766	133,795
1962.	32,146	3,748	6,104	43,585	56,143	141,726
1963.	34,941	7,760	9,375	80,809	70,231	203,116
1964.	39,966	7,215	6,416	59,382	66,053	179,032

1/ DATA NOT AVAILABLE.

2/ LESS THAN 500 POUNDS.

NOTE:--ALL WEIGHTS ARE ON A HEADS-ON BASIS. DURING THE YEARS 1938 TO 1953, INCLUSIVE, THE CATCH TAKEN BY MISSISSIPPI CRAFT IN LOUISIANA WATERS WAS INCLUDED WITH LOUISIANA DATA; IN ALL OTHER YEARS IT WAS INCLUDED WITH MISSISSIPPI DATA.

## GULF SHRIMP CATCH, 1953 AND 1964



# HISTORICAL FISHERY STATISTICS

## SHRIMP LANDINGS, PACIFIC COAST STATES, VARIOUS YEARS, 1888-1964

(THOUSANDS OF POUNDS)

YEAR	ALASKA 1/	WASHINGTON	OREGON	CALIFORNIA	TOTAL
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1888	-	5	-	4,902	4,907
1892	-	2	-	5,313	5,315
1895	-	36	-	5,425	5,461
1899	-	20	-	6,495	6,515
1904	-	430	-	2,576	3,006
1908	-	247	-	258	505
1915	(2)	386	-	298	(2)
1916	164	(2)	-	(2)	(2)
1917	114	(2)	-	(2)	(2)
1918	361	(2)	-	722	(2)
1919	375	(2)	-	813	(2)
1920	700	(2)	-	818	(2)
1921	2,150	(2)	-	910	(2)
1922	2,102	62	-	990	3,154
1923	2,979	35	-	1,113	4,026
1924	3,303	33	-	1,551	4,892
1925	3,247	36	-	1,460	4,743
1926	3,064	51	-	1,432	4,547
1927	3,074	39	-	1,697	4,810
1928	3,152	36	-	2,281	5,469
1929	3,111	50	-	3,055	6,216
1930	3,198	88	-	2,697	5,983
1931	2,863	68	-	1,689	4,620
1932	1,876	46	-	2,683	4,605
1933	1,965	53	-	2,088	4,126
1934	2,387	60	-	1,764	4,211
1935	2,355	124	-	3,448	5,927
1936	2,967	101	-	2,243	5,311
1937	2,896	47	-	1,111	4,044
1938	2,721	25	-	1,847	4,593
1939	2,735	61	-	1,180	3,976
1940	3,164	55	-	1,083	4,302
1941	2,770	27	-	958	3,755
1942	1,895	12	-	801	2,709
1943	713	54	-	253	1,020
1944	879	24	-	292	1,195
1945	1,344	44	-	353	1,771
1946	2,169	131	-	437	2,736
1947	2,080	44	-	843	2,967
1948	3,021	42	-	931	3,994
1949	3,148	67	-	805	4,020
1950	2,980	55	-	919	3,954
1951	2,590	108	-	934	3,622
1952	2,942	17	-	1,118	4,077
1953	2,881	15	26	1,022	3,944
1954	2,635	21	-	1,044	3,700
1955	3,272	8	23	1,522	4,825
1956	3,469	77	6	1,889	5,400
1957	4,114	2,457	403	1,571	6,545
1958	7,862	6,730	1,523	1,776	17,991
1959	13,052	3,046	2,734	1,820	20,652
1960	7,436	1,805	1,149	2,028	12,418
1961	15,980	1,463	1,464	2,005	20,912
1962	16,943	1,399	2,777	1,787	22,906
1963	15,127	1,002	3,028	2,103	21,260
1964	7,727	384	5,280	1,106	14,497

1/ REVISED. DATA FOR THE YEARS 1916-57 WERE DETERMINED FROM THE QUANTITY OF SHRIMP PRODUCTS PREPARED FOR MARKET BY MULTIPLYING THE WEIGHT OF DRIED SHRIMP BY 14.00, COOKED MEATS BY 6.25, RAW MEATS BY 3.57, AND HEADS-OFF SHRIMP BY 1.75. BEGINNING WITH 1958 THE CATCH WAS REPORTED IN ROUND (LIVE) WEIGHT.

2/ DATA NOT AVAILABLE.

# SECTION 14

501

## STATISTICAL SURVEY PROCEDURE

This is another in a series of annual 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, sections, and gear; and the number of persons and operating units engaged in the fisheries. In the Great Lakes and Mississippi River Sections, the catch is also tabulated by water bodies. 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, U. S. Department of the Interior, and is a continuation of a series inaugurated by its predecessor organizations in the Department of Interior, Commerce, Commerce and Labor, and the U. S. 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 many 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. At frequent intervals, 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, employ-

ment in the fisheries, quantity of fishing gear, number and classification of fishing craft, and the volume and value of processed fishery products. The various phases of these surveys are discussed in detail in the sections following.

**H**istory--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 U. S. 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 have been canvassed annually, and catch records have been 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.

# STATISTICAL SURVEY PROCEDURE

The chart on page 503 indicates the years for which surveys have been made in the various sections. Figures for recent years are available from the Bureau in bulletin form, but data for the earlier years are available only in the Fish Commission and Bureau of Fisheries printed reports. These reports are on file in the Department of the Interior library and in many public libraries.

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 1964 may be found in Section 17 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 to 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 processed products data for the previous year. It is usually 3 to 10 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. Since 1930, they have been collected on a calendar year basis.

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 processing 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 statistics, each of which has been carefully

# STATISTICAL SURVEY PROCEDURE

503

## SURVEYS OF THE FISHERIES OF THE UNITED STATES

AREA:	1880	'81	'82	'83	'84	'85	'86	'87	'88	'89	'90	'91	'92	'93	'94	'95	'96	'97	'98	'99	1900	'01	'02
NEW ENGLAND	██████																						
MIDDLE ATLANTIC																							
CHESAPEAKE	██████																						
SOUTH ATLANTIC	██████																						
GULF	██████																						
ALASKA																							
WASH., ORE., CALIF.	██████																						
GREAT LAKES																							
MISSISSIPPI RIVER	██████																						

AREA:	1903	'04	'05	'06	'07	'08	'09	'10	'11	'12	'13	'14	'15	'16	'17	'18	'19	'20	'21	'22	'23	'24	'25
NEW ENGLAND																							
MIDDLE ATLANTIC																							
CHESAPEAKE																							
SOUTH ATLANTIC																							
GULF																							
ALASKA																							
WASH., ORE., CALIF.	██████																						
GREAT LAKES																							
MISSISSIPPI RIVER	██████																						

AREA:	1926	'27	'28	'29	'30	'31	'32	'33	'34	'35	'36	'37	'38	'39	'40	'41	'42	'43	'44	'45	'46	'47	'48
NEW ENGLAND																							
MIDDLE ATLANTIC																							
CHESAPEAKE	██████																						
SOUTH ATLANTIC																							
GULF																							
ALASKA																							
WASH., ORE., CALIF.																							
GREAT LAKES																							
MISSISSIPPI RIVER																							
HAWAII																							

AREA:	1949	'50	'51	'52	'53	'54	'55	'56	'57	'58	'59	'60	'61	'62	'63	'64							
NEW ENGLAND																							
MIDDLE ATLANTIC																							
CHESAPEAKE																							
SOUTH ATLANTIC																							
GULF																							
ALASKA																							
WASH., ORE., CALIF.																							
GREAT LAKES																							
MISSISSIPPI RIVER																							
HAWAII																							

COMPLETE SURVEY

PARTIAL SURVEY

NO SURVEY

## STATISTICAL SURVEY PROCEDURE

studied to obtain the best results with available personnel and funds. In the preparation of operating unit data, the field personnel are supplied with a deck of prepunched vessel cards obtained from the Bureau of Customs. These cards indicate the name, official number, rig code, gross tonnage, length, and year built. Field personnel enter the number of crewmen, and number and type of gear used by the vessel. These data are obtained by interview. Data on the craft of less than 5 net tons are obtained from State conservation agencies and by contact with firms purchasing fish or shellfish from fishermen. The data thus obtained are machine processed to ensure accuracy.

Data on over 96 percent of the catch are available from summaries of monthly landings bulletins and other current records assembled by the Bureau or the various States. 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 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, Wash., and San Pedro, Calif., 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, Maryland, Virginia, 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 cephalopods as squid and octopus.

Shore and Vessel Fisheries--In general, statistics of the shore fisheries, as collected by the Bureau's representatives, include

# STATISTICAL SURVEY PROCEDURE

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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. It has not been possible to separate regular from casual fishermen on the Pacific Coast.

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 fastened together in fishing, because the International Pacific Halibut Commission uses a skate of gear as a unit in its studies of fishing intensity.

Beginning with 1962, only summary data have been shown on the number of fishing gear operated in the Great Lakes and the International Lakes of northern Minnesota. These data appear in the General Review section of the Digest in the table "Summary of Operating Units." In detailed operating unit tables for these lakes, the number and size of gear have been replaced by information on the fishing effort expended in the operation of each gear.

**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 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 summary 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 on 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 States 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 continuously since 1915. Data for the Potomac River shad fishery are available for 1896, 1901, 1904, 1909, 1915, from 1919 to 1942, inclusive, and continuously since 1944. Statistics on the Potomac River alewife fishery are available for 1896, 1909, 1915, from 1919 to 1942, inclusive, and continuously 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 U.S. 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 U.S. 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 Fishery 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 personnel have also obtained daily information on the number of fishing trips, area and

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depth fished, and time spent in fishing by craft landing at U.S. 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 catch and landings are published in bulletin form and are summarized in the annual statistical digests.

Hawaiian Fisheries-- The common and scientific names of the species of fish and shellfish landed in Hawaii are not included in Section 15 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.

Review of Certain Major Fisheries-- Beginning with 1942, tabulations containing complete data on the catch of certain major species have been included in a section of the Digest entitled "Review of Certain Major Fisheries." Although the data are included in the detailed catch tables of the various States, they are consolidated in this section to provide a single source of data for cod, haddock, halibut, Pacific mackerel, jack mackerel, menhaden Atlantic ocean perch, salmon, tuna, oysters, clams, crabs, and shrimp. Data on operating units in the following fisheries have likewise been consolidated in this section: halibut, salmon purse seine and troll line, Atlantic and Pacific Coast tuna, menhaden purse seine, fish and shrimp otter trawl.

Canned Fishery Products and Industrial Products-- Since 1921, the Bureau has made annual sectional surveys for statistics on canned and industrial fishery products. These surveys 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 statistics on the annual production of each domestic canned and industrial fishery products plant. If it is impossible to obtain the information by mail, the report is secured by a Bureau representative. 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 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 data are published in the 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, excluding 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

# STATISTICAL SURVEY PROCEDURE

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 continuously 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 include persons employed in the fisheries, and craft and gear engaged in the fisheries.

**Vessel--** A craft having a capacity of 5 net tons or over.

**Boat--** A craft having a capacity of less than 5 net tons.

**Days Absent--** In computing "days absent" for vessels landing fares at certain Mass-

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, turtles, frogs, sponges, seaweed, and worms are included under this classification.

**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-

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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. So 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.



# STATISTICAL SURVEY PROCEDURE

## COASTLINE OF THE UNITED STATES

Graphic measurements on lengths of coastline and tidal shoreline of the United States have been made from time to time by the U.S. Coast and Geodetic Survey on maps of various scales and in units of various lengths. The three types of measurement are explained in the following paragraphs.

**GENERAL COASTLINE.**--The figures under this heading are lengths of the general outline of the seacoast. The measurements were made with a unit measure of 30 minutes of latitude on charts as near the scale of 1:1,200,000 as possible. The shoreline of bays and sounds is included to a point where such waters narrow to the width of the unit measure, and the distance across at such point is included.

**TIDAL SHORELINE, GENERAL.**--Measurements under this heading were made with a unit measure of 3 statute miles on charts of 1:200,000 and 1:400,000 scale when available. The shoreline of bays, sounds, and other bodies of water is included to a point where such waters narrow to a width of 3 statute miles, and the distance across at such point is included.

**TIDAL SHORELINE, DETAILED.**--The figures under this heading were obtained in 1939-40 with a recording measure on the largest scale maps and charts then available. Shoreline of bays, sounds, and other bodies of water is included to the head of tidewater, or to a point where such waters narrow to a width of 100 feet.

### LENGTH OF COASTLINE

LOCALITY	LENGTHS IN STATUTE MILES			LOCALITY	LENGTHS IN STATUTE MILES		
	GENERAL COASTLINE	TIDAL SHORELINE, GENERAL	TIDAL SHORELINE, DETAILED		GENERAL COASTLINE	TIDAL SHORELINE, GENERAL	TIDAL SHORELINE, DETAILED
NEW ENGLAND:				GULF:			
MAINE . . . . .	228	676	3,478	FLORIDA, WEST COAST	770	1,658	5,095
NEW HAMPSHIRE . . . . .	13	14	131	ALABAMA . . . . .	53	199	607
MASSACHUSETTS . . . . .	192	453	1,519	MISSISSIPPI . . . . .	44	155	359
RHODE ISLAND . . . . .	40	156	364	LOUISIANA . . . . .	397	985	7,721
CONNECTICUT . . . . .	-	96	618	TEXAS . . . . .	367	1,100	3,359
TOTAL NEW ENGLAND . . . . .	473	1,395	6,130	TOTAL GULF COAST	1,631	4,097	17,141
MIDDLE ATLANTIC:				PACIFIC:			
NEW YORK . . . . .	127	470	1,850	ALASKA . . . . .	6,640	15,132	33,904
NEW JERSEY . . . . .	130	398	1,792	WASHINGTON . . . . .	157	908	3,025
PENNSYLVANIA . . . . .	-	-	89	OREGON . . . . .	296	312	1,410
DELAWARE . . . . .	28	79	361	CALIFORNIA . . . . .	840	1,190	3,427
TOTAL MIDDLE ATLANTIC . . . . .	265	947	4,112	TOTAL PACIFIC COAST . . . . .	7,933	17,542	41,767
CHESAPEAKE:				HAWAII . . . . .	750	900	1,052
MARYLAND . . . . .	31	452	3,190	TOTAL UNITED STATES	12,383	28,909	88,633
VIRGINIA . . . . .	112	567	3,315	U.S. TERRITORIES, POSSESSIONS, ETC.:			
TOTAL CHESAPEAKE	143	1,019	6,505	BAKER ISLAND . . . . .	3	3	3
SOUTH ATLANTIC:				CHRISTMAS ISLAND . . . . .	80	90	188
NORTH CAROLINA . . . . .	301	1,030	3,375	GUAM ISLANDS . . . . .	78	84	110
SOUTH CAROLINA . . . . .	187	758	2,876	HONOLULU ISLAND . . . . .	4	4	4
GEORGIA . . . . .	100	603	2,344	JARVIS ISLAND . . . . .	5	5	5
FLORIDA, EAST COAST	580	618	3,331	JOHNSTON ATOLL ISLAND . . . . .	3	3	3
TOTAL SOUTH ATLANTIC . . . . .	1,168	3,009	11,926	NAVASSA ISLAND . . . . .	5	5	5
TOTAL ATLANTIC COAST . . . . .	2,069	6,370	28,673	PALMYRA ISLAND . . . . .	9	9	16
				PANAMA CANAL ZONE . . . . .	20	20	126
				PUERTO RICO . . . . .	311	362	700
				SAMOA ISLANDS . . . . .	76	91	126
				SWAN ISLANDS . . . . .	6	6	6
				VIRGIN ISLANDS . . . . .	117	126	175
				WAKE ISLAND . . . . .	12	12	20

SOURCE:--U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

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## INLAND WATER AREAS BY STATES

Available information on the inland water surface area by States is listed below. These data include lakes, reservoirs and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth of a statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water; and islands having less than 40 acres of area; does not include water surface of the oceans, bays, the Gulf of Mexico, Long Island Sound, Puget Sound, and the Straits of Juan de Fuca and Georgia.

Most of the inland waters are fresh water. There is no specific criterion for distinguishing between fresh water and saline water. The saline lakes are mainly in the Great Basin (nearly all of Nevada, the western half of Utah, and parts of Oregon, California, Idaho, and Wyoming,) which has no outlet to the ocean. In addition much of the water near the coast may range from fresh to salty, depending upon the geography of the area and to fluctuations in the tide.

## INLAND WATER AREA BY STATES AND SQUARE MILES

STATES	SQUARE MILES	STATES	SQUARE MILES
COASTAL		INLAND - CONTINUED	
NEW ENGLAND:		EAST NORTH CENTRAL - CONTINUED:	
MAINE . . . . .	2,203	ILLINOIS:	
NEW HAMPSHIRE . . . . .	290	LAKE MICHIGAN . . . . .	1,526
MASSACHUSETTS . . . . .	390	OTHER . . . . .	470
RHODE ISLAND . . . . .	155	MICHIGAN:	
CONNECTICUT . . . . .	110	LAKE SUPERIOR, MICHIGAN, HURON, AND ERIE . . . . .	38,459
TOTAL NEW ENGLAND . . . . .	3,149	OTHER . . . . .	1,313
MIDDLE ATLANTIC:		WISCONSIN:	
NEW YORK:		LAKE MICHIGAN AND SUPERIOR . . . . .	10,062
LAKES ONTARIO AND ERIE . . . . .	3,627	OTHER . . . . .	1,449
OTHER . . . . .	1,637	TOTAL EAST NORTH CENTRAL . . . . .	57,653
NEW JERSEY . . . . .	315	WEST NORTH CENTRAL:	
PENNSYLVANIA:		MINNESOTA:	
LAKE ERIE . . . . .	735	LAKE SUPERIOR . . . . .	2,212
OTHER . . . . .	326	OTHER . . . . .	4,059
DELAWARE . . . . .	79	IOWA . . . . .	238
TOTAL MIDDLE ATLANTIC . . . . .	6,719	MISSOURI . . . . .	548
CHESAPEAKE:		NORTH DAKOTA . . . . .	1,208
MARYLAND . . . . .	703	SOUTH DAKOTA . . . . .	659
DISTRICT OF COLUMBIA . . . . .	8	NEBRASKA . . . . .	615
VIRGINIA . . . . .	977	KANSAS . . . . .	216
TOTAL CHESAPEAKE . . . . .	1,688	TOTAL WEST NORTH CENTRAL . . . . .	9,785
SOUTH ATLANTIC AND GULF:		EAST SOUTH CENTRAL:	
NORTH CAROLINA . . . . .	3,645	WEST VIRGINIA . . . . .	102
SOUTH CAROLINA . . . . .	783	KENTUCKY . . . . .	532
GEORGIA . . . . .	602	TENNESSEE . . . . .	482
FLORIDA . . . . .	4,308	TOTAL EAST SOUTH CENTRAL . . . . .	1,116
ALABAMA . . . . .	549	WEST SOUTH CENTRAL:	
MISSISSIPPI . . . . .	493	ARKANSAS . . . . .	605
LOUISIANA . . . . .	3,417	OKLAHOMA . . . . .	1,032
TEXAS . . . . .	4,499	TOTAL WEST SOUTH CENTRAL . . . . .	1,637
TOTAL SOUTH ATLANTIC AND GULF . . . . .	18,296	MONTANA MOUNTAIN:	
PACIFIC:		MONTANA . . . . .	1,402
ALASKA . . . . .	15,335	IDAHO . . . . .	849
WASHINGTON . . . . .	1,483	WYOMING . . . . .	503
OREGON . . . . .	733	COLORADO . . . . .	363
CALIFORNIA . . . . .	2,120	NEW MEXICO . . . . .	156
HAWAII . . . . .	9	ARIZONA . . . . .	334
TOTAL PACIFIC . . . . .	19,680	UTAH . . . . .	2,577
INLAND		NEVADA . . . . .	752
EAST NORTH CENTRAL:		TOTAL MONTANA MOUNTAIN . . . . .	6,936
VERMONT . . . . .	333	GREAT LAKES . . . . .	60,306
OHIO:		OTHER . . . . .	66,353
LAKE ERIE . . . . .	3,457	GRAND TOTAL . . . . .	126,659
OTHER . . . . .	250		
INDIANA:			
LAKE MICHIGAN . . . . .	228		
OTHER . . . . .	106		

SOURCE: U. S. DEPARTMENT OF COMMERCE, BUREAU OF CENSUS; *STATISTICAL ABSTRACT OF THE UNITED STATES, 1964*.

# STATISTICAL SURVEY PROCEDURE

## MEASURES AND YIELD OF OYSTERS

STATE	CAPACITY OF STATE BUSHEL	VARIATION FROM U.S. STANDARD BUSHEL			YIELD OF MARKET OYSTERS, 1964	
				PERCENT	POUNDS OF MEATS	U. S. STANDARD BUSHEL
		CUBIC INCHES	CUBIC INCHES			
MAINE . . . . .	2,150.4	-	-	-	10.05	10.05
MASSACHUSETTS . . . . .	2,150.4	-	-	-	6.49	6.49
RHODE ISLAND . . . . .	2,150.4	-	-	-	7.05	7.05
CONNECTICUT . . . . .	2,150.4	-	-	-	7.71	7.71
NEW YORK . . . . .	2,150.4	-	-	-	7.48	7.48
NEW JERSEY . . . . .	2,257.3	+ 106.9	+ 5.0	+ 5.0	7.46	7.10
DELAWARE . . . . .	2,257.3	+ 106.9	+ 5.0	+ 5.0	6.87	6.54
MARYLAND . . . . .	2,917.7	+ 650.3	+ 30.2	+ 30.2	6.13	4.71
VIRGINIA . . . . .	3,903.9	+ 635.5	+ 30.7	+ 30.7	6.02	4.41
NORTH CAROLINA . . . . .	2,801.9	+ 651.5	+ 30.3	+ 30.3	5.82	4.77
SOUTH CAROLINA . . . . .	4,071.5	+ 1,921.1	+ 89.3	+ 89.3	5.34	2.82
GEORGIA . . . . .	5,343.9	+ 3,193.5	+ 148.5	+ 148.5	7.90	3.18
FLORIDA, EAST COAST . . . . .	3,214.1	+ 1,063.7	+ 49.5	+ 49.5	5.69	3.94
FLORIDA, WEST COAST . . . . .	3,214.1	+ 1,063.7	+ 49.5	+ 49.5	5.59	3.74
ALABAMA . . . . .	2,826.2	+ 675.8	+ 31.4	+ 31.4	5.55	4.22
MISSISSIPPI . . . . .	2,826.2	+ 675.8	+ 31.4	+ 31.4	5.31	4.04
LOUISIANA . . . . .	2,148.4	- 2.0	- 0.1	- 0.1	4.74	4.74
TEXAS . . . . .	2,700.0	+ 549.6	+ 25.6	+ 25.6	5.60	4.46

## AVERAGE YIELDS OF CERTAIN MOLLUSKS, 1964

(POUNDS OF MEATS PER U.S. STANDARD BUSHEL)

STATE	CLAMS					CONCHS	MUSSELS, SEA	PERI- WINNLES AND COCKLES	SCALLOPS				
	HARD		OCEAN QUAHOG	RAZOR	SOFT				BAY	SEA			
	PUBLIC	PRIVATE											
MAINE . . . . .	11.00	-	15.00	15.00	15.00	-	15.00	18.00	-	6.00			
MASSACHUSETTS . . . . .	11.00	11.00	16.00	13.00	11.00	15.00	10.00	-	6.00	6.00			
RHODE ISLAND . . . . .	12.00	-	10.00	13.00	-	15.00	10.00	-	6.00	6.00			
CONNECTICUT . . . . .	12.00	12.00	-	13.00	-	15.00	-	-	6.20	-			
NEW YORK . . . . .	12.00	12.00	-	16.00	16.00	17.00	15.00	10.00	-	6.00			
NEW JERSEY . . . . .	10.00	10.00	-	12.00	17.00	20.00	20.00	10.00	-	6.80			
DELaware . . . . .	8.00	8.00	-	-	12.00	17.00	20.00	-	-	-			
MARYLAND . . . . .	8.00	-	-	-	-	-	-	-	-	-			
VIRGINIA . . . . .	8.00	8.00	-	-	-	-	20.00	-	-	6.00			
LINA . . . . .	8.75	-	-	-	-	-	-	-	-	-			
SOUTH CARO- . . . . .	-	-	-	-	-	-	-	-	-	-			
LINA . . . . .	8.75	-	-	-	-	-	-	-	-	-			
FLORIDA, EAST COAST . . . . .	8.00	-	-	-	-	-	-	-	-	-			
FLORIDA, WEST COAST . . . . .	8.50	-	-	-	-	-	14.00	-	-	5.39			

## AVERAGE NUMBER OF CRABS PER POUND, 1964

STATE	BLUE		GREEN	ROCK	STONE
	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 JERSEY . . . . .	2.40	4.82	-	2.80	-
DELAWARE . . . . .	2.40	4.00	-	-	-
MARYLAND . . . . .	2.40	4.00	-	-	-
VIRGINIA . . . . .	2.99	5.99	-	-	-
NORTH CAROLINA . . . . .	3.00	3.00	-	-	-
SOUTH CAROLINA . . . . .	3.00	-	-	-	-
GEORGIA . . . . .	2.00	-	-	-	-
FLORIDA, EAST COAST . . . . .	2.00	4.00	-	1.00	-
FLORIDA, WEST COAST . . . . .	2.07	3.51	-	-	1.00
ALABAMA . . . . .	2.00	-	-	-	-
MISSISSIPPI . . . . .	2.88	3.00	-	-	-
LOUISIANA . . . . .	2.20	3.00	-	-	-
TEXAS . . . . .	1.71	2.40	-	-	-

# STATISTICAL SURVEY PROCEDURE

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## RECOVERY OF SHRIMP PRODUCTS AND FACTORS FOR CONVERTING THEM TO HEADS-ON WEIGHT

ITEM	SOUTH ATLANTIC AND GULF CATCH		PACIFIC AND NORTH ATLANTIC CATCH	
	PERCENT RECOVERY FROM HEADS-ON WEIGHT	TO CONVERT TO HEADS-ON WEIGHT, MULTIPLY BY:	PERCENT RECOVERY FROM HEADS-ON WEIGHT	TO CONVERT TO HEADS-ON WEIGHT, MULTIPLY BY:
HEADLESS,				
BROWN (PENAEUS AZTECUS) . . . . .	62.1	1.61	-	-
PINK (PENAEUS DUORARUM) . . . . .	62.5	1.60	-	-
WHITE (PENAEUS SETIFERUS) . . . . .	64.9	1.54	-	-
ROBUST (HYMENOPENAEUS ROBUSTUS) . . . . .	55.6	1.80	-	-
SEA BOSS (XIPHOPENAEUS KROYERI) . . . . .	65.4	1.53	-	-
OTHER (MOSTLY PANDULUS SPECIES) . . . . .	-	-	57.0	1.75
ALL SPECIES (WEIGHTED AVERAGE)	62.9	1.59	57.0	1.75
PEELED FANTAIL, RAW 1/4 . . . . .	50.0	2.00	-	-
PEELED, RAW 1/4 . . . . .	49.0	2.04	28.0	3.57
PEELED, COOKED 1/4 . . . . .	31.9	3.13	-	-
BRANDED, RAW (INCLUDING FANTAIL) 1/4 . . . . .	100.0	1.00	-	-
DRIED 1/4 . . . . .	13.0	7.69	-	-
CANNED 1/4 . . . . .	31.2	9.21	16.0	6.25

1/ AVERAGE FOR ALL SPECIES.

NOTE:--EFFECTIVE IN 1962, THE CONVERSION FACTORS LISTED ABOVE BECAME THE BRANCH OF STATISTICS' FACTORS FOR CONVERTING VARIOUS SHRIMP PRODUCTS TO HEADS-ON (ROUND) WEIGHT.

## RECOVERY OF PROCESSED SHRIMP PRODUCTS AND FACTORS FOR CONVERTING THEM TO WEIGHT OF RAW BASIC PRODUCT, SOUTH ATLANTIC AND GULF STATES

BASIC PRODUCT, RAW	PROCESSED PRODUCT						
	HEADLESS RAW	PEELED FANTAIL RAW	PEELED RAW	PEELED COOKED	BREADED RAW	CANNED	DRIED
HEADS-ON (ROUND) . . . . .	62.0%	50.0%	49.0%	31.9%	100.0%	31.2%	13.0%
FACTOR . . . . .	1.59	2.00	2.04	3.13	1.00	3.21	7.69
HEADLESS . . . . .	100.0%	79.6%	77.9%	50.7%	159.0%	49.5%	20.7%
FACTOR . . . . .	1.00	1.26	1.28	1.97	0.63	2.02	4.83
PEELED . . . . .	-	-	100.0%	65.1%	204.1%	63.7%	26.5%
FACTOR . . . . .	-	-	1.00	1.54	0.49	1.57	3.77

SEE NOTE BELOW FOLLOWING TABLE.

## RECOVERY OF PROCESSED SHRIMP PRODUCTS AND FACTORS FOR CONVERTING THEM TO WEIGHT OF RAW BASIC PRODUCT, PACIFIC AND NORTH ATLANTIC STATES

BASIC PRODUCT, RAW	PROCESSED PRODUCT		
	HEADLESS RAW	PEELED RAW	CANNED
HEADS-ON (ROUND) . . . . .	57.0%	28.0%	16.0%
FACTOR . . . . .	1.75	3.57	6.25
HEADLESS . . . . .	100.0%	49.1%	28.1%
FACTOR . . . . .	1.00	2.04	3.56
PEELED . . . . .	-	100.0%	57.1%
FACTOR . . . . .	-	1.00	1.75

NOTE:--THE QUANTITY OF PROCESSED PRODUCT MULTIPLIED BY THE FACTOR LISTED YIELDS THE WEIGHT OF BASIC PRODUCT REQUIRED TO PRODUCE THE PROCESSED PRODUCT.

## OTHER CONVERSION FACTORS

ITEM	WHEN REPORTED AS	TO CONVERT TO:	MULTIPLY BY
OYSTERS . . . . .	GALLONS OF SHUCKED MEATS	POUNDS OF SHUCKED MEATS	8.75
CLAMS . . . . .	"	"	8.75
SCALLOPS . . . . .	GALLONS	POUNDS	8.75
0113. FISH AND WHALE . . . . .			7.75
CRAB MEAT; BLUE DUNGENESS . . . . .	POUNDS "	LIVE WEIGHT "	7.14 4.17

# STATISTICAL SURVEY PROCEDURE

## FACTORS FOR CONVERTING IMPORT WEIGHT OF FISHERY PRODUCTS TO LIVE (ROUND) WEIGHT

ITEM	FACTOR	ITEM	FACTOR	
<u>EDIBLE</u>			<u>EDIBLE - CONTINUED</u>	
<b>FRESH OR FROZEN:</b>			<b>CANNED:</b>	
FISH:			ANCHOVIES . . . . .	
WHETHER OR NOT WHOLE (EXCEPT FILLETS, ETC.):			2.00	
FRESH-WATER:			SALMON . . . . .	
LAKE HERRING, CISCO, AND CHUB . . . . .	1.05	1.52		
LAKE TROUT . . . . .	1.12	<b>SARDINES:</b>		
PIKE, EXCEPT YELLOW PIKE . . . . .	1.12	4-OUNCE CANS: . . . . .		
SALMON . . . . .	1.00	5 OUNCE . . . . .		
TROUT (INCLUDING RAINBOW, BROOK, AND BROWN) . . . . .	1.05	ALUMINUM . . . . .	1.72	
WHITEFISH . . . . .	1.07	1-POUND CANS STEEL . . . . .	1.62	
YELLOW PERCH . . . . .	1.00	ESTIMATED AVERAGE FOR VARIOUS SIZE STEEL AND ALUMINUM CANS (1964) . . . . .	1.58	
YELLOW PIKE . . . . .	1.00	HERRING . . . . .	2.00	
ELS. . . . .	1.00	TUNA: IN OIL, ALBACORE . . . . .	1.88	
UNCLASSIFIED . . . . .	1.02	IN BRINE: ALBACORE . . . . .	1.82	
SALT WATER:		OTHER . . . . .	2.08	
COD, ETC. . . . .	1.17	BONITA AND YELLOWTAIL: IN OIL . . . . .	2.85	
HALIBUT . . . . .	1.33	IN BRINE . . . . .	2.85	
MACKEREL . . . . .	1.00	POLLOCK, SMOKED . . . . .	2.00	
SALMON . . . . .	1.18	ANTI PASTO . . . . .	1.50	
SEA HERRING . . . . .	1.00	FISH CAKES, ETC. . . . .	0.60	
SMELT . . . . .	1.30	CAVIAR . . . . .	-	
STURGEON . . . . .	1.25	FISH PASTE AND SAUCE . . . . .	1.50	
SWORDFISH . . . . .	1.40	UNCLASSIFIED FISH . . . . .	2.00	
TUNA:		ABALONE . . . . .	0.93	
ALBACORE:		CLAMS: RAZOR AND OTHER . . . . .	0.93	
WHOLE . . . . .	1.00	CHAMFER . . . . .	0.30	
LOINS AND DISCS . . . . .	2.25	CRAB MEAT . . . . .	5.33	
OTHER . . . . .	1.10	LOBSTER MEAT: COMMON . . . . .	4.64	
YELLOWFIN:		SPINY . . . . .	4.50	
WHOLE . . . . .	1.00	SHRIMP . . . . .	3.21	
GILLED AND GUTTED, HEADS-ON . . . . .	1.11	OYSTERS . . . . .	0.93	
GILLED AND GUTTED, HEADS-OFF . . . . .	1.25	SCALLOPS . . . . .	0.93	
FILLETED . . . . .	2.00	SHELLFISH PASTE . . . . .	2.00	
LOINS AND DISCS . . . . .	2.25	UNCLASSIFIED SHELLFISH . . . . .	3.00	
OTHER . . . . .	1.10			
SKIPPY JACK:		<b>CURED:</b>		
WHOLE . . . . .	1.00	DRIED: SHRIMP . . . . .	7.69	
DRESSED . . . . .	1.25	COD, ETC. . . . .	4.86	
OTHER . . . . .	1.10	SHARK FINS . . . . .	5.00	
OTHER, LOINS AND DISCS . . . . .	2.25			
UNCLASSIFIED . . . . .	1.15	<b>PICKLED OR SALTED:</b>		
FILLETS, STEAKS, AND BLOCKS; BLOCKS . . . . .	3.55	ALEWIVES . . . . .	1.50	
FILLETS AND STEAKS:		COD, ETC.: SKINNED OR BONED . . . . .	4.50	
GROUNDFISH:		OTHER . . . . .	3.50	
COD . . . . .	3.08	HERRING . . . . .	2.22	
HADDOCK, HAKE, POLLOCK, AND CUSK . . . . .	2.85	MACKEREL . . . . .	2.00	
OCEAN PERCH . . . . .	3.33	SALMON . . . . .	1.50	
FLOUNDER . . . . .	2.82	UNCLASSIFIED . . . . .	1.50	
HALIBUT . . . . .	1.95	SMOKED OR KIPPERED: COD, ETC.: WHOLE, BEHEADED, ETC. . . . .	1.50	
SWORDFISH . . . . .	1.52	FILLETS, STEAKS, ETC. . . . .	3.40	
WOLFFISH . . . . .	2.85			
OTHER, SALT-WATER . . . . .	2.85	<b>HERRING:</b> WHOLE OR BEHEADED: HARD DRY SMOKED . . . . .	2.00	
YELLOW PERCH . . . . .	2.27	OTHER . . . . .	1.50	
YELLOW PIKE . . . . .	2.22	BONED . . . . .	4.50	
OTHER, FRESH-WATER . . . . .	2.27	MACKEREL . . . . .	1.80	
FISH STICKS, ETC. . . . .	2.96	SALMON . . . . .	1.66	
SHELLFISH:		UNCLASSIFIED . . . . .	1.50	
CRABS, FRESH OR FROZEN . . . . .	1.50	OTHER FISH AND SHELLFISH . . . . .	1.50	
CRAB MEAT . . . . .	4.50			
LOBSTERS:		<b>INDUSTRIAL</b>		
COMMON:				
WHOLE . . . . .	1.00	FISH MEAL: PERU AND CHILE: POUNDS . . . . .	5.88	
MEAT . . . . .	4.50	TONS . . . . .	11,750	
SPINY:		TONS . . . . .	1/ 5,000	
TAILS . . . . .	3.00	TONS . . . . .	1/10,000	
MEAT . . . . .	4.35			
SHRIMP:		HERING (BUREAU OF CUSTOMS DATA): BAITS . . . . .	1.00	
BREADED . . . . .	1.00	REDUCTION . . . . .	1.00	
SHELL-ON, HEADS-OFF . . . . .	1.59	CANNED, PET FOOD . . . . .	1.00	
PEELED, RAW . . . . .	2.04	PEARL ESSENCE . . . . .	1.00	
PEELED, COOKED . . . . .	3.13			
OTHER . . . . .	1.74			
CLAMS, IN SHELL OR SHUCKED . . . . .	0.40			
OYSTERS:				
EXCEPT SEED . . . . .	0.75			
OTHER, PRINCIPALLY SEED . . . . .	-			
SCALLOPS . . . . .	1.00			
FROG LEGS . . . . .	3.00			
TURTLES, LIVE . . . . .	1.00			

1/ FACTOR LOWERED TO COMPENSATE FOR IMPORTS OF MEAL PRODUCED FROM FILLET AND CANNERY TRIMMINGS.

NOTE:--THE FACTORS LISTED ARE FOR CONVERTING IMPORT WEIGHT TO POUNDS OF LIVE WEIGHT.

SOURCE:--UNPUBLISHED MANUSCRIPT ENTITLED, "LIVE (ROUND) WEIGHT OF FISHERY IMPORTS," BY E. A. POWER, STAFF SPECIALIST, DIVISION OF ECONOMICS.

# SECTION 15 - GLOSSARY

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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 .....	Branch herring, big-eyed herring, river herring .....	<i>Alosa pseudoharengus</i>
Amberjack .....	Blueback, gilt herring, shad herring .....	<i>Alosa aestivalis</i>
Anchovies .....	Jack .....	<i>Seriola</i> species
Angelfish .....	.....	<i>Engraulis mordax</i> (Pacific)
Anglerfish .....	Goosefish, allmouth, headfish, monkfish, bellyfish .....	{ <i>Pomacanthus</i> species <i>Angelichthys</i> species
Ballyhoo.....	Balao .....	<i>Lophius americanus</i>
Barracuda.....	.....	<i>Hemiramphus brasiliensis</i>
Bluefish.....	Tailor, skipjack .....	<i>Sphyraena</i> species
Blue pike.....	Pike perch, hard pike, blue pickerel (Canada) .....	<i>Pomatomus saltatrix</i>
Blue runner.....	Runner, hardtail, crevalle .....	<i>Stizostedion vitreum glaucum</i>
Bonito.....	.....	<i>Caranx cryos</i>
Bowfin .....	Fresh-water dogfish, grindle .....	{ <i>Sarda sarda</i> (Atlantic) <i>Sarda chilensis</i> (Pacific)
Brown trout.....	.....	<i>Amia calva</i>
Buffalo fish.....	Winter carp .....	<i>Salmo trutta</i>
Burbot.....	Lawyer, ling .....	<i>Ictiobus</i> species
Butterfish.....	.....	<i>Lota lota</i>
Cabzone.....	Marbled sculpin .....	<i>Poronotus triacanthus</i>
Cabio.....	Black bonito, cobia, ling, lemonfish .....	<i>Scorpaenichthys marmoratus</i>
Cabrilla.....	Rock bass .....	<i>Rachycentron canadus</i>
Carp .....	German carp, summer carp .....	<i>Epinephelus analogus</i> (Pacific)
Catfish and bullheads .....	.....	<i>Cyprinus carpio</i>
Chubs.....	Longjaw, bluefin, blackfin (United States), tullibee (Canada) .....	{ <i>Ictalurus</i> species <i>Pylodictis olivaris</i>
Cigarfish.....	Scad .....	All <i>Leucichthys</i> except <i>artedi</i> (Great Lakes)
Cisco.....	Herring (Canada) .....	<i>Decapterus punctatus</i>
Cod.....	Codfish .....	<i>Leucichthys artedi</i> (Lake Erie only)
Crappie .....	White crappie, calico bass .....	<i>Gadus morhua</i> (Atlantic)
Crevalle.....	Black crappie .....	<i>Gadus macrocephalus</i> (Pacific)
Croaker .....	Common jack, jackfish .....	<i>Pomoxis annularis</i>
Cunner.....	Crocus, hardhead .....	<i>Pomoxis nigromaculatus</i>
Cutlassfish.....	Chogset, blue perch, bergall .....	<i>Caranx hippos</i>
Cusk.....	Silver eel .....	<i>Micropogon undulatus</i>
Dolly Varden trout .....	.....	<i>Tautogolabrus adspersus</i>
Dolphin .....	Salmon trout, bull trout .....	<i>Trichiurus lepturus</i>
Drum:		<i>Brosme brosme</i>
Black .....	Oyster cracker, oyster drum, sea drum .....	<i>Salvelinus malma</i>
Red .....	Channel bass, redfish, spotted bass .....	<i>Corphaena hippurus</i>
		<i>Pogonias cromis</i>
		<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.....	.....	
Blackback.....	{ Winter flounder (weighing under 3-1/2 pounds each) .....	
Yellowtail .....	{ Dab .....	
Dab.....	Sea dab .....	<i>Pseudopleuronectes americanus</i>
Fluke .....	Summer flounder, gulf flounder, flounder..	
Pacific Coast:		
Arrowtooth halibut .....	.....	<i>Limanda ferruginea</i>
California halibut .....	.....	<i>Hippoglossoides platessoides</i>
Sand dabs .....	.....	<i>Paralichthys species</i>
"Sole":		
Dover .....	.....	<i>Atheresthes stomaia</i>
English.....	.....	<i>Paralichthys californicus</i>
Petrale.....	.....	<i>Citharichthys sordidus</i>
Rex .....	.....	
Sand.....	.....	
Unclassified .....	.....	
Flying fish.....	.....	<i>Microstomus pacificus</i>
Garfish .....	.....	<i>Parophrys vetulus</i>
Gizzard shad.....	.....	<i>Eopsetta jordani</i>
Goldfish .....	.....	<i>Glyptocephalus zachirus</i>
Groupers .....	.....	<i>Psettidichthys melanostictus</i>
Grunts.....	.....	<i>Pleuronectidae and Bothidae</i>
Haddock .....	.....	<i>Cyprinidae species</i>
Hake:		
Red .....	.....	<i>Lepisosteus species</i>
White .....	.....	<i>Dorosoma cepedianum</i>
Pacific.....	.....	<i>Carassius auratus</i>
Halfmoon .....	Squirrel hake, ling, black hake, mud hake	<i>Epinephelus species</i>
Halibut .....	Hake .....	<i>Myceteropora species</i>
Hardhead .....	Merluccio.....	<i>Haemulon species</i>
Harvestfish .....	Rudder fish .....	<i>Melanogrammus aeglefinus</i>
Herring:		
Lake.....	.....	<i>Urophycis chuss</i> (Atlantic)
Sea .....	.....	<i>Urophycis tenuis</i> (Atlantic)
Thread.....	.....	<i>Merluccius productus</i> (Pacific)
		<i>Medialuna californiensis</i>
		{ <i>Hippoglossus hippoglossus</i> (Atlantic)
		{ <i>Hippoglossus stenolepis</i> (Pacific)
		{ <i>Orthodon microlepidotus</i> (Pacific)
		<i>Peprilus paru</i>
		{ <i>Leucichthys artedi</i> (Great Lakes except Erie)
		{ <i>Clupea harengus</i> (Atlantic)
		{ <i>Clupea pallasii</i> (Pacific)
		<i>Opisthonema oglinum</i>

(Continued on next page)

# GLOSSARY

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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>Lamptera tridentata</i> (Pacific)
Boston mackerel.....	.....	<i>Ammodytes americanus</i>
Pacific mackerel.....	.....	<i>Ophiodon elongatus</i>
Menhaden .....	Mossbunker, pogy, fatback .....	<i>Scomber scombrus</i> (Atlantic)
Minnows .....	.....	<i>Scomber japonicus</i>
Mojarra .....	Sand perch, sand bream .....	<i>Brevoortia</i> species
Mooneye .....	Goldeye, toothed herring.....	<i>Cyprinidae</i>
Mullet .....	Jumping mullet, striped mullet, silver mullet	<i>Gerridae</i>
Muttonfish .....	Mutton snapper.....	<i>Hiodon</i> species
Ocean perch:		<i>Mugil</i> species
Atlantic .....	Rosefish, redfish, red perch.....	<i>Lutjanus analis</i>
Pacific .....	.....	
Ocean pout.....	Eelpout, sea pout .....	<i>Sebastes marinus</i>
Opaheye.....	.....	<i>Sebastodes alutus</i>
Paddlefish .....	Spoonbill cat.....	<i>Macrozoarces americanus</i>
Perch.....	Surffish.....	<i>Girella nigricans</i>
Permit .....	.....	<i>Polyodon spathula</i>
Pigfish .....	Hogfish (N.C.) .....	<i>Embiotocidae</i> (Pacific)
Pike or pickerel .....	Great Lakes pike .....	<i>Trachinotus goodei</i>
Pinfish.....	Bream, salt-water bream .....	<i>Orthopristis chrysopterus</i>
Pollock .....	Boston bluefish .....	<i>Esox</i> species
Pompano .....	.....	<i>Lagodon rhomboides</i>
Quillback .....	Spearfish or skimfish .....	<i>Pollachius virens</i> (Atlantic)
Ratfish.....	.....	<i>Trachinotus</i> species (Atlantic)
Rock bass .....	Redeye, goggle-eye, groupers, sand bass .....	<i>Palometra similis</i> (Pacific)
Rockfishes .....	Rock cod, snapper .....	<i>Carpioidea</i> species
Sablefish.....	Black cod .....	<i>Hydrolagus colliei</i>
Salmon:		
Atlantic .....	.....	<i>Ambloplites rupestris</i> (fresh-water)
Pacific:		<i>Paralabrax nebulifer</i> (Pacific)
Chinook or king .....	Tyee, spring.....	<i>Sebastodes</i> species (Pacific)
Chum or keta.....	Fall, dog.....	<i>Anoplopoma fimbria</i>
Pink .....	Humpback .....	<i>Salmo salar</i> (Atlantic)
Red or sockeye.....	Blueback.....	
Silver or coho.....	.....	<i>Oncorhynchus tshawytscha</i>
		<i>Oncorhynchus keta</i>
		<i>Oncorhynchus gorbuscha</i>
		<i>Oncorhynchus nerka</i>
		<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.....	.....	<i>Pristis pectinatus</i>
Sculpin.....	Scorpionfish.....	<i>Myoxocephalus</i> species
Scup or porgy.....	Porgie, paugy, fair maid.....	<i>Calamus</i> and <i>Stenotomus</i> species
Sea bass:		
Black.....	Black jewfish (Pacific).....	<i>Stereolepis gigas</i>
White.....	Blackfish (Atlantic).....	<i>Centropristes striatus</i>
Sea catfish.....	.....	<i>Cynoscion nobilis</i> (Pacific)
Sea robin.....	Gafftopsail .....	<i>Bagre marinus</i>
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
Smelt.....	Ray, rajafish .....	<i>Raja</i> species
Snapper:		
Mangrove .....	Gray snapper .....	<i>Osmerus mordax</i> (Atlantic and Great Lakes), <i>Atherinidae</i> and
Red .....	.....	<i>Osmeridae</i> (Pacific)
Vermilion .....	.....	<i>Thaleichthys pacificus</i>
Yellowtail .....	.....	
Snook.....	Robalo, sergeantfish, pike.....	<i>Lutjanus griseus</i>
Spadefish.....	Angelfish .....	<i>Lutjanus blackfordii</i>
Spanish mackerel.....	Mackerel .....	<i>Rhomboptilus</i> species
Spanish sardine.....	.....	<i>Ocyurus chrysurus</i>
Splittail.....	.....	<i>Centropomus undecimalis</i>
Spot.....	Lafayette, goody .....	<i>Chaetodipterus faber</i>
Steelhead trout.....	Salmon trout.....	<i>Scomberomorus maculatus</i>
		<i>Sardinella anchovia</i>
		<i>Pogonichthys macrolepidotus</i>
		<i>Leiostomus xanthurus</i>
		<i>Salmo gairdneri</i>

(Continued on next page)

# GLOSSARY

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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 species</i>
Shovelnose.....	.....	<i>Scaphirhynchus platorynchus</i>
Suckers.....	Fresh-water mullet, redfin, bayfish.....	<i>Catostomus species</i>
Sunfish.....	Bream, perch, bluegill.....	<i>Lepomis species</i>
Swellfish.....	Puffer, swell toad, globefish, blowfish.....	<i>Sphaeroides maculatus</i>
Swordfish.....	.....	<i>Xiphias gladius</i>
Tautog.....	Blackfish, oysterfish.....	<i>Tautoga onitis</i>
Temppounder.....	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) { <i>Microgadus proximus</i> (Pacific)
Triggerfish.....	.....	<i>Balistes species</i>
Tripletail.....	Sunfish (N.C.), blackfish.....	<i>Lobotes surinamensis</i>
Tullibee.....	(See chubs).....	.....
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 pelanus</i>
Yellowfin.....	.....	<i>Thunnus albacares</i>
Turbot.....	.....	Pleuronectidae (Pacific)
Wahoo.....	.....	<i>Acanthocybium solandri</i>
Warsaw.....	Black Jewfish.....	<i>Garrupa nigrita</i>
Whitebait.....	Silversides.....	{ <i>Menidia beryllina</i> (Atlantic) Small fry of several species (Pacific)
White bass.....	White lake bass.....	<i>Roccus chrysops</i>
Whitefish:		
Common.....	.....	<i>Coregonus clupeaformis</i>
Menominee.....	.....	<i>Prosopium quadrilaterale</i>
White perch.....	.....	<i>Morone americana</i>
Whiting.....	Silver hake.....	<i>Merluccius bilinearis</i>
Wolfish.....	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). (For Atlantic, see snapper, yellowtail).....	<i>Sitzostedion vitreum vitreum</i>
Yellowtail.....		<i>Seriola dorsalis</i> (Pacific)
CRUSTACEANS		
Crabs:		
Blue:		
Hard.....	Hard-shell crab.....	<i>Callinectes sapidus</i>
Soft and peeler.....	Soft-shell crab.....	
Dungeness.....		
King.....	Alaska king crab.....	<i>Cancer magister</i> <i>Paralithodes camschatcica</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)
Stone .....	.....	<i>Cancer</i> species (California)
Crawfish:		<i>Menippe mercenaria</i>
Fresh-water .....	Crayfish.....	{ <i>Cambarus</i> species (Atlantic)
Salt-water.....	(See lobsters, spiny).....	{ <i>Astacus</i> species (Pacific)
Horseshoe crab.....	King crab.....	
Lobsters:		
Northern .....	.....	<i>Homarus americanus</i> (Atlantic)
Spiny .....	Sea crawfish, rock lobster .....	{ <i>Panulirus argus</i> (Atlantic)
Shrimp.....	Prawn.....	{ <i>Panulirus interruptus</i> (Pacific)
		{ <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.....	Butter.....	<i>Cardium corbis</i> (Pacific)
Hard.....	Little neck .....	<i>Saxidomus nuttalli</i> (Pacific)
Ocean quahog .....	Round clam, cherrystone, quahog, little neck .....	<i>Protothaca staminea</i> (Pacific)
Razor .....	.....	<i>Venus mercenaria</i> , <i>Mercenaria mercenaria</i>
Soft .....	Soft-shell clam, sand clam, nannynose, maninoise	<i>Arctica islandica</i>
Surf .....	Skimmer.....	{ <i>Ensis</i> species (Atlantic)
Conchs.....	.....	{ <i>Siliqua patula</i> (Pacific)}
Mussels:		
Sea,.....	.....	<i>Mya arenaria</i>
Fresh-water:	.....	<i>Spisula solidissima</i>
Mussel shells.....	.....	{ <i>Strombus</i> species}
Pearls and slugs....	.....	{ <i>Busycon</i> species}
Octopus .....	Devilfish.....	{ <i>Mytilus californianus</i> (Pacific)}
Oysters:	.....	{ <i>Mytilus edulis</i> (Atlantic)}
Eastern.....	Cove.....	Unionidae
Pacific .....	Japanese.....	.....
Western.....	Olympia, native.....	<i>Paroctopus appolyon</i>
Periwinkles or cockles..	.....	
Scallops:	.....	
Bay .....	.....	<i>Crassostrea virginica</i>
Sea .....	.....	<i>Crassostrea gigas</i>

# GLOSSARY

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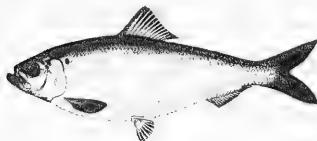
Common names as shown in Bureau reports	Other Common names	Scientific names
MOLLUSKS - Continued		
Squid.....	Inkfish, bone squid, taw taw .....	$\left\{ \begin{array}{l} Loligo opalescens \text{ (Pacific)} \\ L. pealii \text{ (Atlantic)} \end{array} \right.$
OTHER		
Sea urchins.....	Sea eggs .....	<i>Strongylocentrotus drobachiensis</i>
Terrapin.....	*Diamond-back terrapin.....	<i>Malaclemys</i> species
Turtles:		(Young of fresh-water species)
Baby.....	.....	<i>Chelonia mydas</i>
Green.....	.....	<i>Caretta</i> species
Loggerhead.....	.....	<i>Pseudemys</i> species
Sliders.....	.....	$\left\{ \begin{array}{l} Chelydra serpentina \\ Macrochelys temminckii \\ Amyda species \end{array} \right.$
Snapper.....	Hard-shell, alligator turtle.....	<i>Rana</i> species
Soft-shell.....	.....	<i>Chondrus crispus</i>
Frogs.....	.....	<i>Macrocytis</i> species
Irish moss.....	.....	
Kelp.....	.....	
Sponges:		
Glove.....	.....	<i>Hippiospongia conicalculata</i>
Grass.....	.....	<i>Spongia graminea</i>
Sheepwool.....	Wool.....	<i>Hippiospongia lachne</i>
Yellow.....	.....	<i>Spongia barbara</i>
Whales:		
Blue.....	.....	<i>Balaenoptera musculus</i>
Bottlenose.....	.....	<i>Berardius bairdii</i>
Fin.....	.....	<i>Balaenoptera physalus</i>
Humpback.....	.....	<i>Megaptera</i> species
Sei.....	.....	<i>Balaenoptera borealis</i>
Sperm.....	.....	<i>Physeter catodon</i>
Bloodworms.....	.....	<i>Glyceridae</i>
Sandworms.....	.....	<i>Nereis</i> species



# SECTION 16 - 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 15 of this publication entitled, "Glossary."



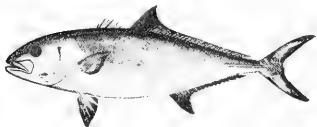
ALEWIFE

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



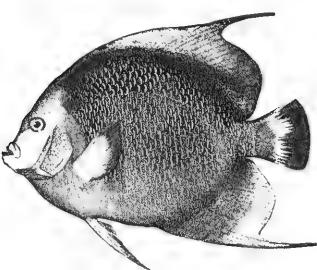
AMBERJACK

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

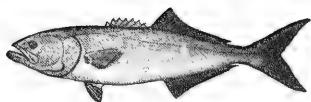


BARRACUDA (PACIFIC)

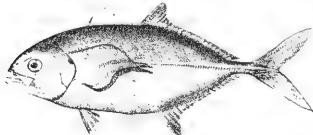
RANGE - CALIFORNIA  
GEAR - PURSE SEINES, LONGLINES, HANDLINES,  
TROLL LINES, GILL AND TRAMMEL NETS

# PICTORIAL SECTION

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**BLUEFISH**  
RANGE - GULF OF MEXICO TO NEW ENGLAND  
GEAR - HAUL SEINES, GILL NETS, POUND NETS,  
TROLL LINES, PURSE SEINES



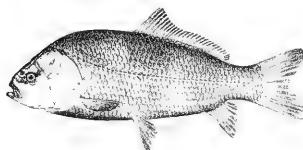
**BLUE RUNNER OR HARDETLAILED**  
RANGE - GULF OF MEXICO  
GEAR - HAUL SEINES, GILL NETS, POTS



**BONITO (ATLANTIC)**  
RANGE - NORTH CAROLINA TO MASSACHUSETTS  
GEAR - POUND NETS, TROLL LINES, GILL NETS



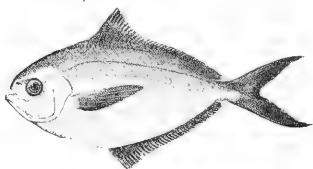
**BOWFIN**  
RANGE - FRESH-WATER  
GEAR - HAUL SEINES, TRAP NETS, FYKE NETS



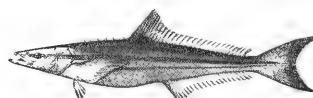
**BUFFALO FISH**  
RANGE - FRESH-WATER  
GEAR - HAUL SEINES, FYKE NETS, TRAMMEL NETS, TROTLLINES



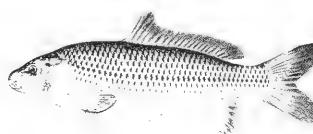
**BURBOT**  
RANGE - GREAT LAKES  
GEAR - GILL NETS, FYKE NETS, POUND NETS,  
TRAP NETS



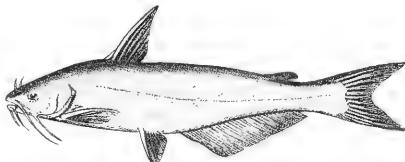
**POMPANO**  
RANGE - FLORIDA TO NEW ENGLAND  
GEAR - POUND NETS, HAUL SEINES, OTTER TRAWLS



**CABIO**  
RANGE - FLORIDA TO VIRGINIA  
GEAR - HANDLINES, POUND NETS



**CARP**  
RANGE - FRESH-WATER  
GEAR - HAUL SEINES, GILL NETS, TRAP NETS,  
FYKE NETS, POUND NETS, TROTLLINES

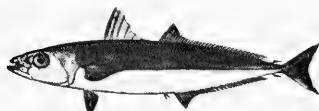


**CATFISH**  
RANGE - FRESH-WATER  
GEAR - HAUL SEINES, TROTLLINES, POUND NETS,  
POTS, FYKE NETS

# PICTORIAL SECTION



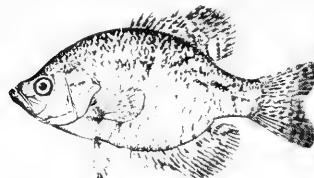
**CHUB**  
RANGE - GREAT LAKES  
GEAR - GILL NETS



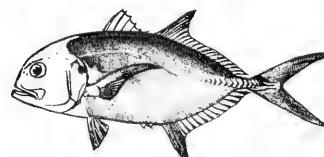
**CIGARFISH**  
RANGE - FLORIDA  
GEAR - HAUL SEINES



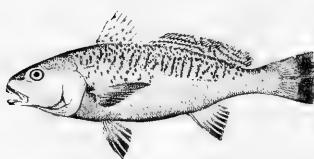
**COD**  
RANGE - VIRGINIA TO MAINE, WASHINGTON,  
AND ALASKA  
GEAR - OTTER TRAWLS, LONGLINES, GILL NETS



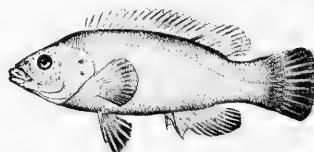
**CRAPPIE**  
RANGE - FRESH-WATER LAKES  
GEAR - HAUL SEINES, LINES, POTS



**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



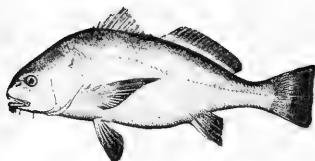
**DOLLY VARDEN TROUT**  
RANGE - PACIFIC  
GEAR - POUND NETS, GILL NETS, LINES



**DOLPHIN**  
RANGE - FLORIDA TO NORTH CAROLINA  
GEAR - TROLL LINES

# PICTORIAL SECTION

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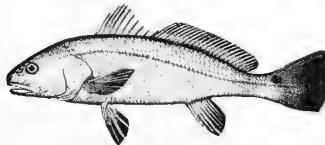
DRUM, BLACK

RANGE - TEXAS TO NORTH CAROLINA  
GEAR - HAUL SEINES, POUND NETS, LINES



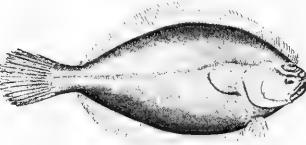
LEMON SOLE

RANGE - NEW YORK TO MAINE  
GEAR - OTTER TRAWLS



DRUM, RED

RANGE - TEXAS - MARYLAND  
GEAR - POUND NETS, HAUL SEINES, GILL NETS,  
LINES



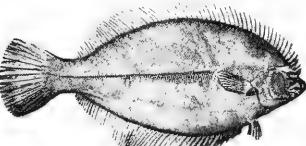
DAB

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



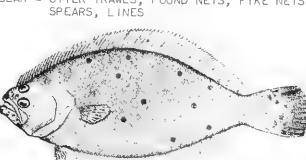
BLACKBACK OR WINTER FLOUNDER

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

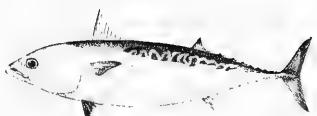
RANGE - MASSACHUSETTS TO MAINE  
GEAR - OTTER TRAWLS



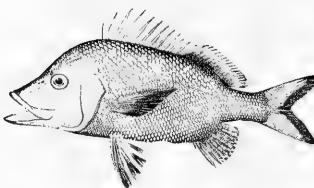
FLYING FISH

RANGE - PACIFIC AND ATLANTIC OCEANS  
GEAR - GILL NETS

# PICTORIAL SECTION



**FRIGATE MACKEREL**  
RANGE - MIDDLE ATLANTIC  
GEAR - POUND NETS



**GRUNT**  
RANGE - FLORIDA  
GEAR - POTS, GILL NETS, LINES



**GARFISH**  
RANGE - FRESH-WATER  
GEAR - HAUL SEINES, LINES



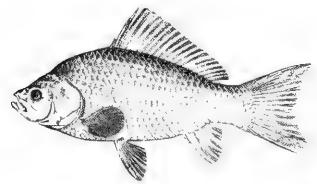
**HADDOCK**  
RANGE - NEW ENGLAND STATES  
GEAR - OTTER TRAWLS, GILL NETS, LONGLINES



**GIZZARD SHAD**  
RANGE - NORTH CAROLINA TO MARYLAND,  
GREAT LAKES  
GEAR - HAUL SEINES, POUND NETS, GILL NETS



**HAKE, RED**  
RANGE - CHESAPEAKE BAY TO NEW ENGLAND  
GEAR - GILL NETS, OTTER TRAWLS, LONGLINES



**GOLDFISH**  
RANGE - LAKES AND RIVERS  
GEAR - HAUL SEINES, TRAP NETS, FYKE NETS



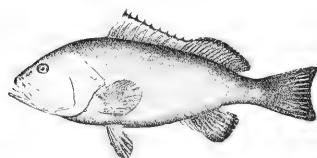
**HAKE, WHITE**  
RANGE - CHESAPEAKE BAY TO NEW ENGLAND  
GEAR - GILL NETS, OTTER TRAWLS, LONGLINES



**GRAYFISH**  
RANGE - PACIFIC  
GEAR - LONGLINES, OTTER TRAWLS, GILL NETS



**HAKE (PACIFIC)**  
RANGE - PACIFIC  
GEAR - OTTER TRAWLS



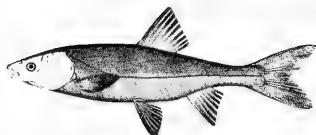
**GROUPER**  
RANGE - TEXAS TO SOUTH CAROLINA  
GEAR - HANDLINES, POTS



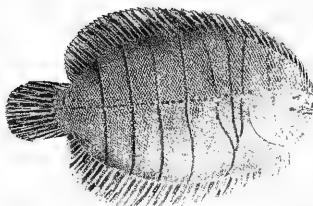
**HALIBUT**  
RANGE - PACIFIC COAST - NEW ENGLAND  
GEAR - LONGLINES, OTTER TRAWLS

# PICTORIAL SECTION

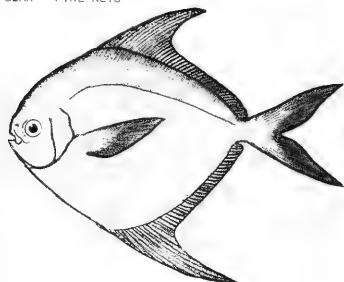
527



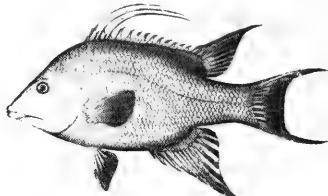
HARDHEAD  
RANGE - CALIFORNIA  
GEAR - FYKE NETS



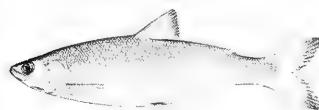
HOGCHOKER  
RANGE - CHESAPEAKE BAY  
GEAR - POUND NETS, HAUL SEINES



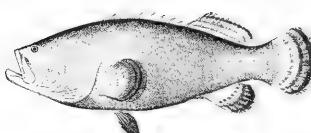
HARVESTFISH OR "STARFISH"  
RANGE - NORTH CAROLINA TO CHESAPEAKE BAY  
GEAR - HAUL SEINES, POUND NETS



HOGFISH  
RANGE - FLORIDA  
GEAR - LINES



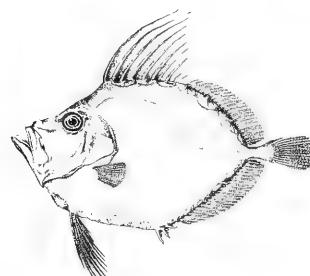
HERRING, LAKE  
RANGE - GREAT LAKES  
GEAR - GILL NETS, HAUL SEINES, POUND NETS,  
TRAP NETS



JEWFISH  
RANGE - FLORIDA  
GEAR - HAND LINES



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

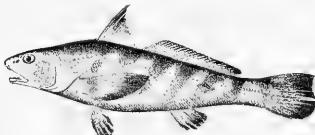


HICKORY SHAD  
RANGE - FLORIDA TO RHODE ISLAND  
GEAR - POUND NETS, HAUL SEINES, GILL NETS  
FLOATING TRAPS

# PICTORIAL SECTION



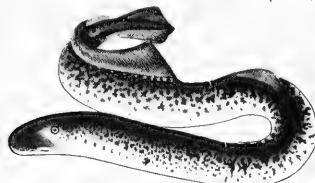
KING MACKEREL  
RANGE - TEXAS TO NEW YORK  
GEAR - TROLL LINES, GILL NETS, HANDLINES



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)



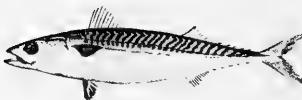
LAMPREY  
RANGE - FRESH-WATER  
GEAR - POTS, FYKE NETS



LANCE  
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



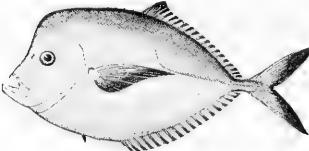
MACKEREL, PACIFIC  
RANGE - CALIFORNIA  
GEAR - LINES, SEINES, LAMPARA NETS



MENHADEN  
RANGE - GULF OF MEXICO TO NEW ENGLAND  
GEAR - PURSE SEINES, POUND NETS



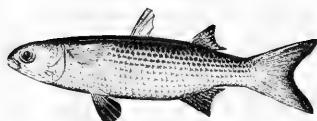
MOONEYE  
RANGE - GREAT LAKES  
GEAR - HAUL SEINES



MOONFISH  
RANGE - FLORIDA  
GEAR - HANDLINES, HAUL SEINES

# PICTORIAL SECTION

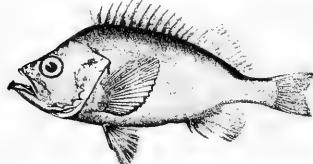
529



MULLET  
RANGE - TEXAS TO NEW JERSEY  
GEAR - GILL NETS, HAUL SEINES, POUND NETS,  
CAST NETS



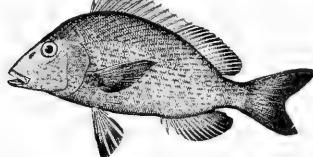
OCEAN POUT  
RANGE - NEW ENGLAND  
GEAR - OTTER TRAWLS



OCEAN PERCH  
RANGE - NEW ENGLAND  
GEAR - OTTER TRAWLS



PADDLEFISH  
RANGE - GULF OF MEXICO, MISSISSIPPI RIVER  
GEAR - HAUL SEINES, TROTLLINES



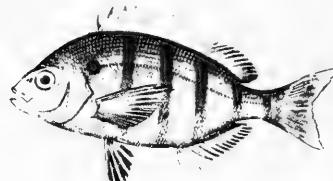
PIGFISH  
RANGE - FLORIDA  
GEAR - POTS, HANDLINES, GILL NETS



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



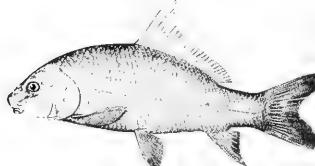
PINFISH  
RANGE - FLORIDA TO NORTH CAROLINA  
GEAR - HAUL SEINES, GILL NETS



POLLOCK  
RANGE - MIDDLE ATLANTIC AND NEW ENGLAND STATES  
GEAR - LONGLINES, FLOATING TRAPS, POUND NETS,  
OTTER TRAWLS, GILL NETS



POMPANO  
RANGE - TEXAS TO NORTH CAROLINA  
GEAR - TRAMMEL NETS, HAUL SEINES, GILL NETS,  
HANDLINES

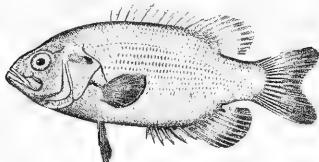


QUILLBACK  
RANGE - FRESH-WATER  
GEAR - HAUL SEINES, TROTLLINES, FYKE NETS

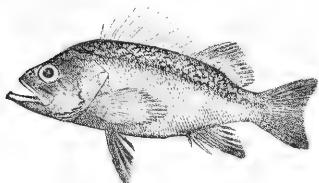
# PICTORIAL SECTION



**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



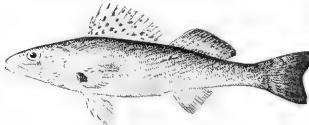
**SALMON, PINK**  
RANGE - WASHINGTON TO ALASKA  
GEAR - PURSE SEINES, POUND NETS, GILL NETS  
REEF NETS



**SALMON, RED OR SOCKEYE**  
RANGE - OREGON TO ALASKA  
GEAR - GILL NETS, PURSE SEINES, POUND NETS,  
REEF NETS



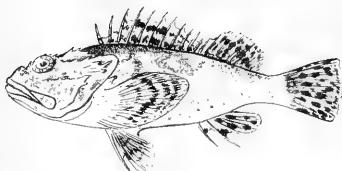
**SALMON, SILVER OR COHO**  
RANGE - CALIFORNIA TO ALASKA  
GEAR - HAUL SEINES, PURSE SEINES, GILL NETS,  
TROLL LINES, POUND NETS, REEF NETS



**SAUER**  
RANGE - GREAT LAKES  
GEAR - GILL NETS, HAUL SEINES, TRAP NETS,  
FYKE NETS

# PICTORIAL SECTION

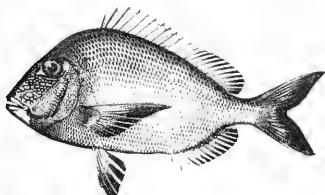
531



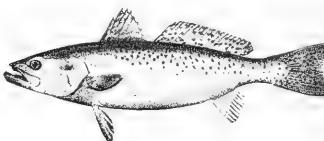
SCULPIN  
RANGE - PACIFIC COAST STATES AND ALASKA  
GEAR - LINES, GILL NETS, POTS



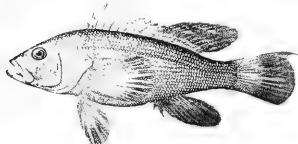
SEA TROUT OR WEAKFISH, GRAY  
RANGE - FLORIDA TO MASSACHUSETTS  
GEAR - OTTER TRAWLS, POUND NETS, PURSE SEINES,  
GILL NETS, HAUL SEINES



SCUP OR PORGY  
RANGE - FLORIDA TO NEW ENGLAND  
GEAR - OTTER TRAWLS, POUND NETS



SEA TROUT OR WEAKFISH, SPOTTED  
RANGE - MARYLAND TO TEXAS  
GEAR - GILL NETS, TRAMMEL NETS, HAUL SEINES,  
POUND NETS, OTTER TRAWLS, HANDLINES



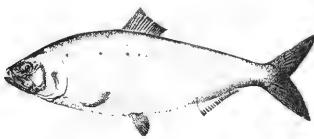
SEA BASS  
RANGE - FLORIDA TO NEW ENGLAND  
GEAR - OTTER TRAWLS, HANDLINES, POTS



SEA TROUT OR WEAKFISH, WHITE  
RANGE - GULF OF MEXICO  
GEAR - GILL NETS, HAUL SEINES, HANDLINES



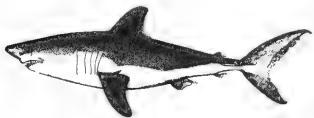
SEA CATFISH  
RANGE - TEXAS TO CHESAPEAKE BAY  
GEAR - OTTER TRAWLS, HAUL SEINES, HANDLINES



SHAD  
RANGE - FLORIDA TO NEW ENGLAND  
GEAR - GILL NETS, POUND NETS, FYKE NETS,  
HAUL SEINES

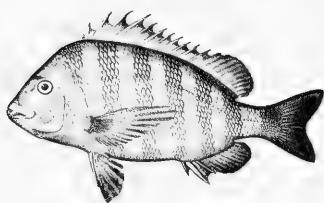


SEA ROBIN  
RANGE - CHESAPEAKE BAY TO NEW ENGLAND  
GEAR - POUND NETS, OTTER TRAWLS



SHARK  
RANGE - ATLANTIC COAST, GULF, PACIFIC COAST STATES  
GEAR - LONGLINES, GILL NETS, OTTER TRAWLS

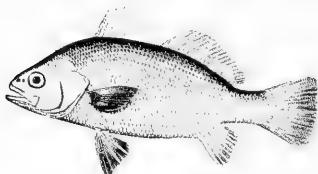
# PICTORIAL SECTION



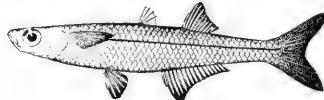
**SHEEPSHEAD**  
RANGE - TEXAS TO CHESAPEAKE BAY  
GEAR - HANDLINES, POTS



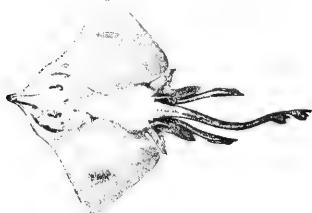
**SHEEPSHEAD, CALIFORNIA**  
RANGE - CALIFORNIA  
GEAR - LONGLINES, TRAMMEL NETS



**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



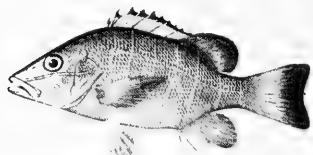
**SKIPPER**  
RANGE - VIRGINIA TO NOVA SCOTIA  
GEAR - POUND NETS, WEIRS



**SMELT**  
RANGE - NEW YORK TO MAINE, PACIFIC OCEAN,  
GREAT LAKES  
GEAR - POUND NETS, DIP NETS, GILL NETS, HAUL SEINES



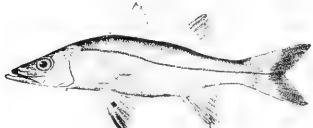
**SNAPPER, MANGROVE**  
RANGE - FLORIDA  
GEAR - HANDLINES, GILL NETS



**SNAPPER, LANE**  
RANGE - FLORIDA  
GEAR - HANDLINES



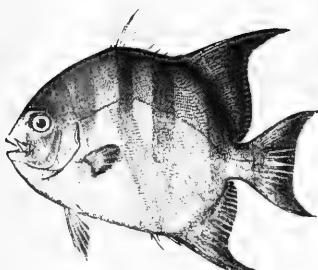
**SNAPPER, RED**  
RANGE - TEXAS TO FLORIDA  
GEAR - HANDLINES



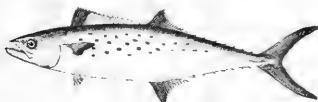
**SNOOK**  
RANGE - TEXAS TO FLORIDA  
GEAR - GILL NETS, HANDLINES, HAUL SEINES

# PICTORIAL SECTION

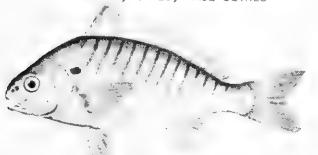
533



SPADEFISH  
RANGE - FLORIDA  
GEAR - GILL NETS, TRAMMEL NETS



SPANISH MACKEREL  
RANGE - TEXAS TO VIRGINIA  
GEAR - GILL NETS, LINES, HAUL SEINES



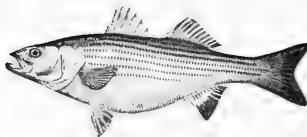
SPOT  
RANGE - GULF OF MEXICO TO MIDDLE ATLANTIC STATES  
GEAR - HAUL SEINES, GILL NETS, POUND NETS,  
OTTER TRAWLS



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



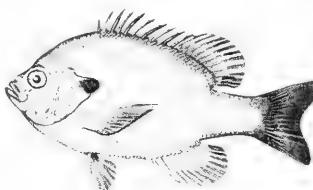
STURGEON  
RANGE - COASTAL AND RIVER AREAS  
GEAR - GILL NETS, LINES



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



SURF FISH  
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



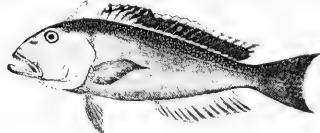
**TAUTOG**  
RANGE - CHESAPEAKE BAY TO NEW ENGLAND  
GEAR - POUND NETS, HANDLINES, POTS



**TENPOUNDER**  
RANGE - FLORIDA  
GEAR - HAUL SEINES



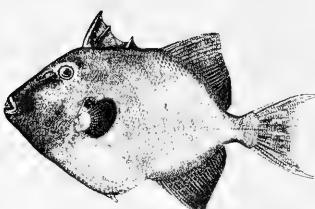
**THIMBLE-EYED MACKEREL**  
RANGE - CHESAPEAKE BAY TO NEW ENGLAND  
GEAR - POUND NETS, PURSE SEINES, OTTER TRAWLS



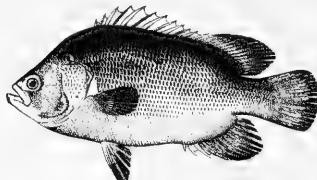
**TILEFISH**  
RANGE - MIDDLE ATLANTIC AND NEW ENGLAND STATES  
GEAR - LONGLINES, REEF NETS, OTTER TRAWLS



**TOMCOD**  
RANGE - PACIFIC COAST, MIDDLE ATLANTIC AND  
NEW ENGLAND STATES  
GEAR - OTTER TRAWLS, DIP NETS



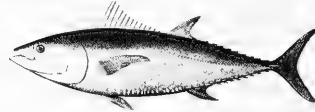
**TRIGGERFISH**  
RANGE - FLORIDA  
GEAR - HANDLINES



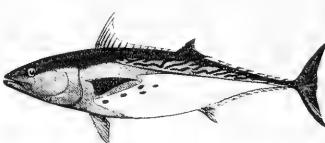
**TRIPLETAIL**  
RANGE - FLORIDA  
GEAR - HAUL SEINES, GILL NETS, LINES



**TUNA, ALBACORE**  
RANGE - PACIFIC COAST  
GEAR - LINES



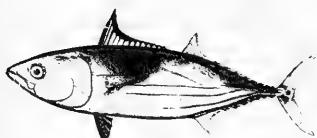
**TUNA, BLUEFIN**  
RANGE - CALIFORNIA, NEW JERSEY TO MAINE  
GEAR - PURSE SEINES, LAMPARA NETS, TROLL LINES,  
POUND NETS, HARPOONS



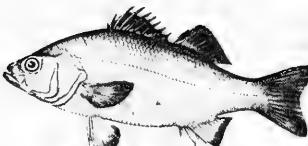
**TUNA, LITTLE**  
RANGE - MASSACHUSETTS TO TEXAS  
GEAR - POUND NETS, TROLL LINES, OTTER TRAWLS

## PICTORIAL SECTION

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TUNA, SKIPJACK  
RANGE - CALIFORNIA  
GEAR - LINES AND PURSE SEINES



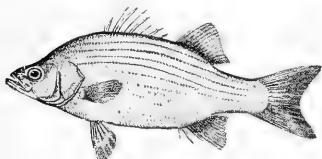
WHITE PERCH  
RANGE - NORTH CAROLINA TO MAINE  
GEAR - POUND NETS, FYKE NETS, HAUL SEINES



TUNA, YELLOWFIN  
RANGE - PACIFIC  
GEAR - LINES AND PURSE SEINES



WHITING  
RANGE - VIRGINIA TO MAINE  
GEAR - OTTER TRAWLS, POUND NETS



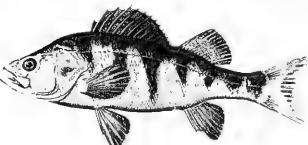
WHITE BASS  
RANGE - GREAT LAKES  
GEAR - TRAP NETS, FYKE NETS, HAUL SEINES, POUND NETS



WOLFFISH  
RANGE - MASSACHUSETTS AND MAINE  
GEAR - OTTER TRAWLS, LONGLINES



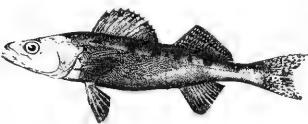
WHITEFISH, COMMON  
RANGE - GREAT LAKES  
GEAR - GILL NETS, POUND NETS, TRAP NETS



YELLOW PERCH  
RANGE - GREAT LAKES, OTHER LAKES  
GEAR - GILL NETS, TRAP NETS, POUND NETS, FYKE NETS

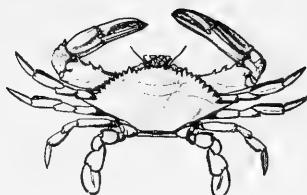


WHITEFISH, MENOMINEE  
RANGE - ALASKA, GREAT LAKES  
GEAR - GILL NETS, HAUL SEINES, TRAP NETS, POUND NETS

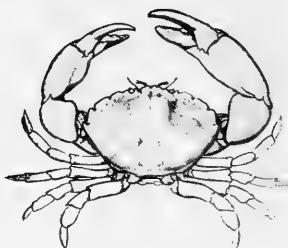


YELLOW PIKE  
RANGE - GREAT LAKES  
GEAR - POUND NETS, FYKE NETS, GILL NETS, TRAP NETS

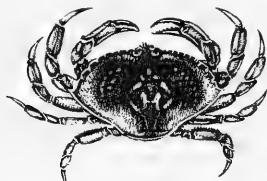
## PICTORIAL SECTION



**BLUE CRAB**  
RANGE - TEXAS TO RHODE ISLAND  
GEAR - TROTINES, POTS, FYKE NETS, DIP NETS,  
SCRAPES, DREDGES



**STONE CRAB**  
RANGE - FLORIDA  
GEAR - DIP NETS, CRAB POTS



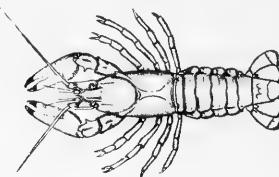
**DUNGENESS CRAB**  
RANGE - PACIFIC COAST STATES AND ALASKA  
GEAR - TRAPS



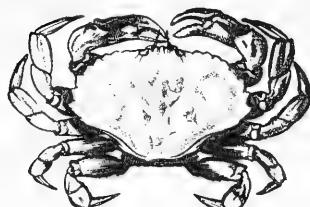
**HORSESHOE CRAB**  
RANGE - MARYLAND TO NEW YORK  
GEAR - POUND NETS, WEIRS, BY HAND



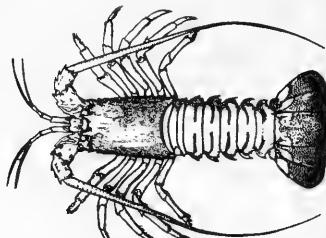
**KING CRAB**  
RANGE - ALASKA  
GEAR - POTS



**FRESH-WATER CRAWFISH**  
RANGE - RIVERS AND LAKES  
GEAR - POTS



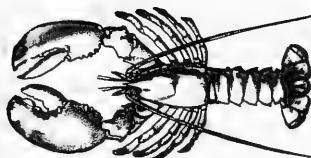
**ROCK CRAB**  
RANGE - NEW ENGLAND  
GEAR - POTS



**SPINY LOBSTER**  
RANGE - CALIFORNIA AND FLORIDA  
GEAR - DIP NETS, POTS, HOOKS

# PICTORIAL SECTION

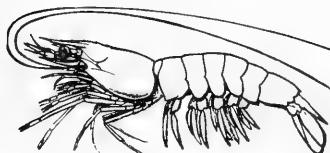
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LOBSTER, NORTHERN  
RANGE - VIRGINIA TO MAINE  
GEAR - POTS, OTTER TRAWLS



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



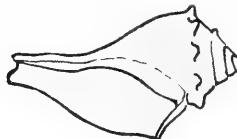
BUTTER CLAM  
RANGE - PACIFIC COAST  
GEAR - SHOVELS



SOFT CLAM  
RANGE - MIDDLE ATLANTIC TO NEW ENGLAND,  
PACIFIC COAST STATES  
GEAR - FORKS, HOES, RAKES, DREDGES



LITTLE NECK CLAM  
RANGE - PACIFIC COAST  
GEAR - SHOVELS

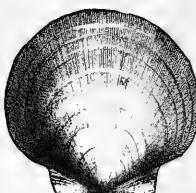


CONCH  
RANGE - FLORIDA TO MAINE  
GEAR - OTTER TRAWLS, DREDGES, POTS, AND BY HAND

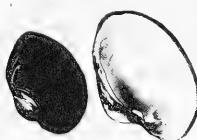
## PICTORIAL SECTION



LIMPET  
RANGE - NEW YORK AND NEW ENGLAND  
GEAR - DREDGES



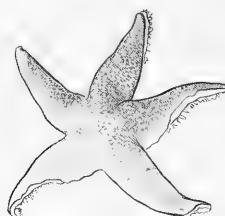
SEA SCALLOP  
RANGE - NEW JERSEY TO MAINE  
GEAR - DREDGES, OTTER TRAWLS



FRESH-WATER MUSSEL  
RANGE - FRESH-WATER STREAMS  
GEAR - CROWFOOT BARS, PICKS, HAND



SEA MUSSEL  
RANGE - NORTH CAROLINA TO MAINE  
GEAR - DREDGES, TONGS, RAKES, HAND



STARFISH  
RANGE - ATLANTIC AND PACIFIC COAST  
GEAR - HOOKS, SCRAPES, "MOPS"



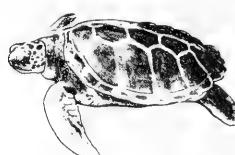
OYSTER  
RANGE - TEXAS TO MASSACHUSETTS, PACIFIC COAST  
GEAR - TONGS, DREDGES, RAKES, BY HAND



TERRAPIN  
RANGE - TEXAS TO NEW JERSEY  
GEAR - HAUL SEINES, BY HAND



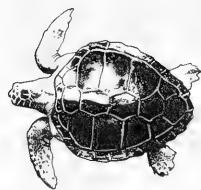
BAY SCALLOP  
RANGE - FLORIDA TO MASSACHUSETTS, WASHINGTON  
GEAR - DREDGES, SCRAPES, PUSH NETS, TONGS, RAKES,  
DIP NETS



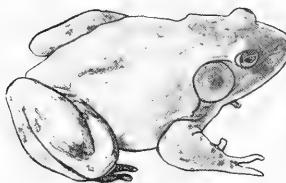
GREEN TURTLE  
RANGE - FLORIDA  
GEAR - GILL NETS

## PICTORIAL SECTION

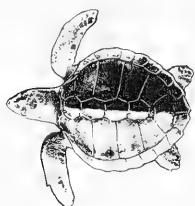
539



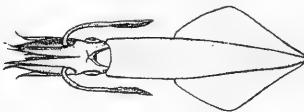
LOGGERHEAD TURTLE  
RANGE - FLORIDA TO NEW JERSEY  
GEAR - GILL NETS



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 17 - STATISTICAL PUBLICATIONS

THE FOLLOWING LIST OF PUBLICATIONS INCLUDES ALL REPORTS ISSUED IN THE CURRENT FISHERY STATISTICS SERIES DURING 1964.

C. F. S. NO.	TITLE	C. F. S. NO.	TITLE
3372	LOUISIANA LANDINGS, SEPTEMBER, 1963	3449	PACIFIC COAST FISHERIES, ANNUAL, 1962
3373	GULF FISHERIES, ANNUAL, 1962	3450	FISHERIES OF THE UNITED STATES, ANNUAL, 1963
3374	MISSISSIPPI LANDINGS, SEPTEMBER, 1963	3451	FROZEN FISH REPORT, ANNUAL, 1963
3375	NEW YORK LANDINGS, OCTOBER, 1963	3452	WISCONSIN LANDINGS, JANUARY, 1964
3376	FISH MEAL AND OIL, OCTOBER, 1963	3453	CANNED FISHERY PRODUCTS, ANNUAL, 1963
3377	NEW JERSEY LANDINGS, SEPTEMBER, 1963	3454	INDUSTRIAL FISHERY PRODUCTS, ANNUAL, 1963
3378	WISCONSIN LANDINGS, OCTOBER, 1963	3455	PACKAGED FISHERY PRODUCTS, ANNUAL, 1963
3379	LOUISIANA LANDINGS, OCTOBER, 1963	3456	CALIFORNIA LANDINGS, DECEMBER, 1963
3380	NORTH CAROLINA LANDINGS, NOVEMBER, 1963	3457	NEW YORK LANDINGS, JANUARY, 1964
3381	CALIFORNIA LANDINGS, SEPTEMBER, 1963	3458	MISSISSIPPI LANDINGS, DECEMBER, 1963
3382	SHRIMP LANDINGS, AUGUST, 1963	3459	GULF COAST SHRIMP DATA, OCTOBER, 1963
3383	GULF COAST SHRIMP DATA, AUGUST, 1963	3460	MASSACHUSETTS LANDINGS, JULY, 1963
3384	MICHIGAN LANDINGS, NOVEMBER, 1963	3461	MARYLAND LANDINGS, JANUARY, 1964
3385	OHIO LANDINGS, SEPTEMBER, 1963	3462	GEORGIA LANDINGS, FEBRUARY, 1964
3386	VIRGINIA LANDINGS, OCTOBER, 1963	3463	NORTH CAROLINA LANDINGS, FEBRUARY, 1964
3387	MASSACHUSETTS LANDINGS, JUNE, 1963	3464	VIRGINIA LANDINGS, JANUARY, 1964
3388	MARYLAND LANDINGS, OCTOBER, 1963	3465	MASSACHUSETTS LANDINGS, AUGUST, 1963
3389	MAINE LANDINGS, OCTOBER, 1963	3466	SOUTH CAROLINA LANDINGS, FEBRUARY, 1964
3390	ALABAMA LANDINGS, OCTOBER, 1963	3467	OREGON LANDINGS, ANNUAL, 1963
3391	GEORGIA LANDINGS, NOVEMBER, 1963	3468	BREADED SHRIMP, OCT.-DEC., 1963
3392	NEW JERSEY LANDINGS, OCTOBER, 1963	3469	CALIFORNIA LANDINGS, JANUARY, 1964
3393	FISH MEAL AND OIL, NOVEMBER, 1963	3470	UNITED STATES FISHERIES, MARCH, 1964
3394	FLORIDA LANDINGS, NOVEMBER, 1963	3471	MISSISSIPPI LANDINGS, ANNUAL, 1962
3395	FROZEN FISH REPORT, DECEMBER, 1963	3472	MASSACHUSETTS LANDINGS, SEPTEMBER, 1963
3396	RHODE ISLAND LANDINGS, NOVEMBER, 1963	3473	GULF COAST SHRIMP DATA, NOVEMBER, 1963
3397	SOUTH CAROLINA LANDINGS, NOVEMBER, 1963	3474	MAINE LANDINGS, BY MONTHS, ANNUAL, 1963
3398	MICHIGAN LANDINGS, OCTOBER, 1963	3475	MAINE LANDINGS, BY COUNTIES, ANNUAL, 1963
3399	WISCONSIN LANDINGS, NOVEMBER, 1963	3476	RHODE ISLAND LANDINGS, ANNUAL, 1963
3400	FISH STICKS AND PORTIONS, OCT.-DEC., 1963	3477	SOUTH CAROLINA LANDINGS, ANNUAL, 1963
3401	LOUISIANA LANDINGS, NOVEMBER, 1963	3478	MICHIGAN LANDINGS, JANUARY, 1964
3402	NEW YORK LANDINGS, NOVEMBER, 1963	3479	SHRIMP LANDINGS, NOVEMBER, 1963
3403	VIRGINIA LANDINGS, NOVEMBER, 1963	3480	FLORIDA LANDINGS, FEBRUARY, 1964
3404	MARYLAND LANDINGS, NOVEMBER, 1963	3481	NORTH CAROLINA LANDINGS, ANNUAL, 1963
3405	CALIFORNIA LANDINGS, OCTOBER, 1963	3482	GEORGIA LANDINGS, JANUARY, 1964
3406	MAINE LANDINGS, NOVEMBER, 1963	3483	NEW JERSEY LANDINGS, FEBRUARY, 1964
3407	MISSISSIPPI RIVER FISHERIES, ANNUAL, 1962	3484	NEW JERSEY LANDINGS, ANNUAL, 1963
3408	MISSISSIPPI LANDINGS, NOVEMBER, 1963	3485	MASSACHUSETTS LANDINGS, OCTOBER, 1963
3409	MISSISSIPPI LANDINGS, NOVEMBER, 1963	3486	MASSACHUSETTS LANDINGS, NOVEMBER, 1963
3410	GEORGIA LANDINGS, DECEMBER, 1963	3487	MASSACHUSETTS LANDINGS, DECEMBER, 1963
3411	SOUTH CAROLINA LANDINGS, DECEMBER, 1963	3488	MARYLAND LANDINGS, FEBRUARY, 1964
3412	FROZEN FISH REPORT, JANUARY, 1964	3489	VIRGINIA LANDINGS, FEBRUARY, 1964
3413	FLORIDA LANDINGS, DECEMBER, 1963	3490	NEW YORK LANDINGS, ANNUAL, 1963
3414	NORTH CAROLINA LANDINGS, DECEMBER, 1963	3491	NEW YORK LANDINGS, FEBRUARY, 1964
3415	NEW JERSEY LANDINGS, NOVEMBER, 1963	3492	WISCONSIN LANDINGS, FEBRUARY, 1964
3416	NEW JERSEY LANDINGS, DECEMBER, 1963	3493	WISCONSIN LANDINGS, FEBRUARY, 1964
3417	FISH STICKS AND PORTIONS, ANNUAL, 1963	3494	SHRIMP LANDINGS, DECEMBER, 1963
3418	ALABAMA LANDINGS, NOVEMBER, 1963	3495	WISCONSIN LANDINGS, ANNUAL, 1963
3419	PROVIDENCE ISLAND LANDINGS, NOVEMBER, 1963	3496	GULF COAST SHRIMP DATA, DECEMBER, 1963
3420	MICHIGAN LANDINGS, NOVEMBER, 1963	3497	MAINE LANDINGS, FEBRUARY, 1964
3421	AKLASH FISHERIES, ANNUAL, 1962	3498	RHODE ISLAND LANDINGS, JANUARY, 1964
3422	OHIO LANDINGS, OCTOBER, 1963	3499	ALABAMA LANDINGS, ANNUAL, 1963
3423	OHIO LANDINGS, NOVEMBER, 1963	3500	FISHERIES OF THE UNITED STATES, ANNUAL, 1963
3424	OHIO LANDINGS, DECEMBER, 1963	3501	BREADED SHRIMP, JAN.-MAR., 1964
3425	ALABAMA LANDINGS, DECEMBER, 1963	3502	GEORGIA LANDINGS, ANNUAL, 1963
3426	FISH MEAL AND OIL, DECEMBER, 1963	3503	CALIFORNIA LANDINGS, FEBRUARY, 1964
3427	WISCONSIN LANDINGS, DECEMBER, 1963	3504	NORTH CAROLINA LANDINGS, MARCH, 1964
3428	MARYLAND LANDINGS, DECEMBER, 1963	3505	SHRIMP LANDINGS, JANUARY, 1964
3429	OHIO LANDINGS, ANNUAL, 1963	3506	FLORIDA LANDINGS, MARCH, 1964
3430	MISSISSIPPI LANDINGS, DECEMBER, 1963	3507	FROZEN FISHERY REPORT, APRIL, 1964
3432	GEORGIA LANDINGS, JANUARY, 1964	3508	MASSACHUSETTS LANDINGS, BY PORTS, ANNUAL, 1963
3432	NORTH CAROLINA LANDINGS, JANUARY, 1964	3509	MASSACHUSETTS LANDINGS, BY GEAR, AND SUBAREA, ANNUAL, 1963
3433	VIRGINIA LANDINGS, DECEMBER, 1963	3510	MICHIGAN LANDINGS, FEBRUARY, 1964
3434	SOUTH CAROLINA LANDINGS, JANUARY, 1964	3511	MISSISSIPPI LANDINGS, ANNUAL, 1963
3435	NEW YORK LANDINGS, DECEMBER, 1963	3512	FISH MEAL AND OIL, FEBRUARY, 1964
3436	MAINE LANDINGS, DECEMBER, 1963	3513	LOUISIANA LANDINGS, MARCH, 1964
3437	FLORIDA LANDINGS, JANUARY, 1964	3514	NEW YORK LANDINGS, JANUARY, 1964
3438	FISH MEAL AND OIL, JANUARY, 1964	3515	GULF COAST SHRIMP DATA, ANNUAL, 1963
3439	SHRIMP LANDINGS, SEPTEMBER, 1963	3516	MARYLAND LANDINGS, MARCH, 1964
3440	FROZEN FISH REPORT, FEBRUARY, 1964	3517	FISH MEAL AND OIL, ANNUAL, 1963
3441	MICHIGAN LANDINGS, DECEMBER, 1963	3518	FISH MEAL AND OIL, MARCH, 1964
3442	MISSISSIPPI SHRIMP DATA, SEPTEMBER, 1963	3519	NORTH CAROLINA LANDINGS, APRIL, 1964
3443	CALIFORNIA LANDINGS, NOVEMBER, 1963	3520	SHRIMP LANDINGS, ANNUAL, 1963
3444	NEW JERSEY LANDINGS, JANUARY, 1964	3521	FISH MEAL AND OIL, APRIL, 1964
3445	WASHINGTON LANDINGS, ANNUAL, 1963	3522	MAINE LANDINGS, MARCH, 1964
3446	LOUISIANA LANDINGS, JANUARY, 1964	3523	FROZEN FISH REPORT, MAY, 1964
3447	RHODE ISLAND LANDINGS, DECEMBER, 1963	3524	FLORIDA LANDINGS, APRIL, 1964
3448	SHRIMP LANDINGS, OCTOBER, 1963		

(CONTINUED ON NEXT PAGE)

# STATISTICAL PUBLICATIONS

C. F. S. NO.	TITLE	C. F. S. NO.	TITLE
3525	WISCONSIN LANDINGS, MARCH, 1964	3600	FROZEN FISH REPORT, AUGUST, 1964
3526	CALIFORNIA LANDINGS, MARCH, 1964	3601	HAWAII FISHERIES, ANNUAL, 1963
3527	NEW JERSEY LANDINGS, MARCH, 1964	3602	FLORIDA LANDINGS, ANNUAL, 1963
3528	VIRGINIA LANDINGS, MARCH, 1964	3603	CALIFORNIA LANDINGS, JUNE, 1964
3529	NEW JERSEY LANDINGS, APRIL, 1964	3604	TEXAS LANDINGS, MAY, 1964
3530	MICHIGAN LANDINGS, MARCH, 1964	3605	FLORIDA LANDINGS, JUNE, 1964
3531	NEW YORK LANDINGS, APRIL, 1964	3606	FISH MEAL AND OIL, JULY, 1964
3532	MANUFACTURED FISHERY PRODUCTS, ANNUAL, 1962	3607	GEORGIA LANDINGS, JUNE, 1964
3533	CALIFORNIA LANDINGS, APRIL, 1964	3608	GREAT LAKES LANDINGS, JUNE, 1964
3534	GUATEMALA LANDINGS, APRIL, 1964	3609	MISSISSIPPI LANDINGS, JUNE, 1964
3535	NORTH CAROLINA LANDINGS, MAY, 1964	3610	ALABAMA LANDINGS, JANUARY, 1964
3536	VIRGINIA LANDINGS, ANNUAL, 1963	3611	ALABAMA LANDINGS, FEBRUARY, 1964
3537	FISH MEAL AND OIL, MAY, 1964	3612	ALABAMA LANDINGS, MARCH, 1964
3538	MAINE LANDINGS, APRIL, 1964	3613	ALABAMA LANDINGS, APRIL, 1964
3539	TEXAS LANDINGS, SEPTEMBER, 1963	3614	ALABAMA LANDINGS, MAY, 1964
3540	FROZEN FISH REPORT, JUNE, 1964	3615	ALABAMA LANDINGS, JUNE, 1964
3541	TEXAS LANDINGS, OCTOBER, 1963	3616	CHESAPEAKE FISHERIES, ANNUAL, 1963
3542	MARYLAND LANDINGS, ANNUAL, 1963	3617	TEXAS LANDINGS, JUNE, 1964
3543	NEW JERSEY LANDINGS, MAY, 1964	3618	TEXAS LANDINGS, JULY, 1964
3544	OHIO LANDINGS, MARCH, 1964	3619	GEORGIA LANDINGS, MARCH, 1964
3545	WISCONSIN LANDINGS, APRIL, 1964	3620	GEORGIA LANDINGS, APRIL, 1964
3546	MICHIGAN LANDINGS, APRIL, 1964	3621	GEORGIA LANDINGS, MAY, 1964
3547	OHIO LANDINGS, APRIL, 1964	3622	GEORGIA LANDINGS, JUNE, 1964
3548	TEXAS LANDINGS, NOVEMBER, 1963	3623	GEORGIA LANDINGS, JULY, 1964
3549	TEXAS LANDINGS, DECEMBER, 1963	3624	GREAT LAKES FISHERIES, ANNUAL, 1963
3550	RHODE ISLAND LANDINGS, FEBRUARY, 1964	3625	TEXAS LANDINGS, JULY, 1964
3551	MASSACHUSETTS LANDINGS, JANUARY, 1964	3626	NEW YORK LANDINGS, JULY, 1964
3552	LOUISIANA LANDINGS, ANNUAL, 1963	3627	TEXAS LANDINGS, ANNUAL, 1964
3553	SHRIMP LANDINGS, JANUARY, 1964	3628	SOUTH CAROLINA LANDINGS, MARCH, 1964
3554	LOUISIANA LANDINGS, MAY, 1964	3629	SOUTH CAROLINA LANDINGS, APRIL, 1964
3555	SHRIMP LANDINGS, FEBRUARY, 1964	3630	SOUTH CAROLINA LANDINGS, MAY, 1964
3556	MARYLAND LANDINGS, APRIL, 1964	3631	SOUTH CAROLINA LANDINGS, JUNE, 1964
3557	NEW YORK LANDINGS, MAY, 1964	3632	SOUTH CAROLINA LANDINGS, JULY, 1964
3558	MARYLAND LANDINGS, MAY, 1964	3633	ALABAMA LANDINGS, JULY, 1964
3559	FISH STICKS, PORTIONS, AND BREADED SHRIMP, APR.-JUNE, 1964	3634	FLORIDA LANDINGS, JULY, 1964
3560	NORTH CAROLINA LANDINGS, JUNE, 1964	3635	LOUISIANA LANDINGS, JULY, 1964
3561	WISCONSIN LANDINGS, MAY, 1964	3636	SHRIMP LANDINGS, JUNE, 1964
3562	MAINE LANDINGS, MAY, 1964	3637	GULF COAST SHRIMP DATA, JUNE, 1964
3563	GULF COAST SHRIMP DATA, JANUARY, 1964	3638	MAINE LANDINGS, JULY, 1964
3564	SHRIMP LANDINGS, MARCH, 1964	3639	NORTH CAROLINA LANDINGS, AUGUST, 1964
3565	GULF COAST SHRIMP DATA, FEBRUARY, 1964	3640	FROZEN FISH REPORT, SEPTEMBER, 1964
3566	GULF COAST SHRIMP DATA, MARCH, 1964	3641	RHODE ISLAND LANDINGS, MAY, 1964
3567	TEXAS LANDINGS, APRIL, 1964	3642	GEORGIA LANDINGS, AUGUST, 1964
3568	CALIFORNIA LANDINGS, MAY, 1964	3643	SOUTH CAROLINA LANDINGS, AUGUST, 1964
3569	FLORIDA LANDINGS, MAY, 1964	3644	MARYLAND LANDINGS, AUGUST, 1964
3570	MAINE LANDINGS, JUNE, 1964	3645	NEW JERSEY LANDINGS, JULY, 1964
3571	FROZEN FISH REPORT, JULY, 1964	3646	NEW JERSEY LANDINGS, AUGUST, 1964
3572	RHODE ISLAND LANDINGS, MARCH, 1964	3647	FLORIDA LANDINGS, AUGUST, 1964
3573	FISH MEAL AND OIL, JUNE, 1964	3648	RHODE ISLAND LANDINGS, JUNE, 1964
3574	MIDDLE ATLANTIC FISHERIES, ANNUAL, 1963	3649	NEW YORK LANDINGS, AUGUST, 1964
3575	MASSACHUSETTS LANDINGS, FEBRUARY, 1964	3650	NEW YORK LANDINGS, AUGUST, 1964
3576	NEW JERSEY LANDINGS, JUNE, 1964	3651	VIRGINIA LANDINGS, JULY, 1964
3577	MICHIGAN LANDINGS, MAY, 1964	3652	MASSACHUSETTS LANDINGS, APRIL, 1964
3578	MARYLAND LANDINGS, APRIL, 1964	3653	MASSACHUSETTS LANDINGS, MAY, 1964
3579	VIRGINIA LANDINGS, MAY, 1964	3654	ALABAMA LANDINGS, AUGUST, 1964
3580	MARYLAND LANDINGS, JUNE, 1964	3655	LOUISIANA LANDINGS, AUGUST, 1964
3581	TEXAS LANDINGS, JANUARY, 1964	3656	SHRIMP LANDINGS, JULY, 1964
3582	TEXAS LANDINGS, FEBRUARY, 1964	3657	GULF COAST SHRIMP DATA, JULY, 1964
3583	TEXAS LANDINGS, MARCH, 1964	3658	GREAT LAKES LANDINGS, JULY, 1964
3584	SHRIMP LANDINGS, APRIL, 1964	3659	NORTH CAROLINA LANDINGS, SEPTEMBER, 1964
3585	MISSISSIPPI LANDINGS, JANUARY, 1964	3660	VIRGINIA LANDINGS, AUGUST, 1964
3586	GULF COAST SHRIMP DATA, APRIL, 1964	3661	NEW JERSEY LANDINGS, AUGUST, 1964
3587	NEW YORK LANDINGS, JUNE, 1964	3662	NEW JERSEY LANDINGS, SEPTEMBER, 1964
3588	NORTH CAROLINA LANDINGS, JULY, 1964	3663	FISH STICKS, PORTIONS, AND BREADED SHRIMP, JULY-SEPT., 1964
3589	TEXAS LANDINGS, APRIL, 1964	3664	CALIFORNIA LANDINGS, JULY, 1964
3590	NEW ENGLAND FISHERIES, ANNUAL, 1963	3665	MAINE LANDINGS, AUGUST, 1964
3591	MISSISSIPPI LANDINGS, FEBRUARY, 1964	3666	SOUTH ATLANTIC FISHERIES, ANNUAL, 1963
3592	MISSISSIPPI LANDINGS, MARCH, 1964	3667	GEORGIA LANDINGS, SEPTEMBER, 1964
3593	MISSISSIPPI LANDINGS, APRIL, 1964	3668	MISSISSIPPI LANDINGS, JULY, 1964
3594	MISSISSIPPI LANDINGS, MAY, 1964	3669	FLORIDA LANDINGS, SEPTEMBER, 1964
3595	LOUISIANA LANDINGS, JUNE, 1964	3670	FROZEN FISH REPORT, OCTOBER, 1964
3596	RHODE ISLAND LANDINGS, APRIL, 1964	3671	IMPORTS AND EXPORTS OF FISHERY PRODUCTS, ANNUAL, 1964
3597	OHIO LANDINGS, MAY, 1964	3672	FISH MEAL AND OIL, SEPTEMBER, 1964
3598	SHRIMP LANDINGS, MAY, 1964	3673	MARYLAND LANDINGS, SEPTEMBER, 1964
3599	GULF COAST SHRIMP DATA, MAY, 1964	3674	SOUTH CAROLINA LANDINGS, SEPTEMBER, 1964

Created in 1849 the Department of the Interior—a department of conservation—is concerned with the management, conservation, and development of the Nation's water, fish, wildlife, mineral, forest, and park and 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.





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