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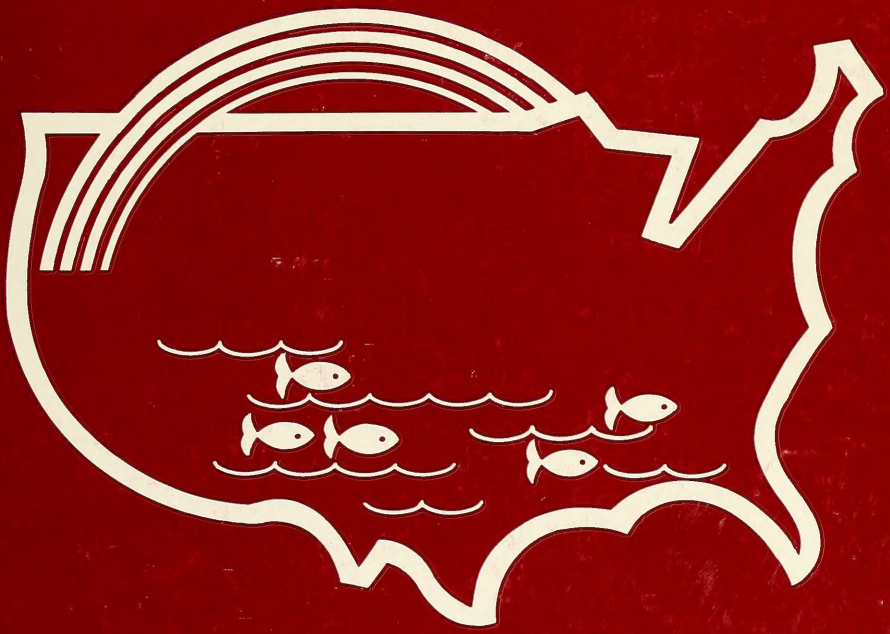
Current Fishery Statistics No. 8900

Fisheries of the United States 1989

May 1990



U.S. DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

National Marine Fisheries Service

Current Fishery Statistics No. 8900

Fisheries of the United States, 1989

Prepared by:
Fisheries Statistics Division

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Silver Spring, MD
May 1990

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PREFACE

FISHERIES OF THE UNITED STATES, 1989

This publication is a preliminary report for 1989 on commercial and recreational fisheries of the United States and foreign catches in the U.S. Exclusive Economic Zone (EEZ). This annual report provides timely answers to frequently asked questions for the previous year.

SOURCES OF DATA

Information in this report came from many sources. Field offices of the National Marine Fisheries Service (NMFS), in cooperation with various States, collected and compiled data on U.S. commercial landings and processed fishery products. The NMFS field offices compiled data on the foreign catch from reports submitted by designated foreign officials. The NMFS Fisheries Statistics Division in Silver Spring, MD, managed the collection and compilation of recreational statistics, and tabulated and prepared all data for publication. Sources of other data appearing in this publication are: U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Coast Guard, U.S. Customs Service, U.S. Department of the Interior, U.S. Department of Agriculture, Food and Agriculture Organization (FAO) of the United Nations (Rome), and the countries fishing in the U.S. EEZ.

PRELIMINARY AND FINAL DATA

Data on U.S. commercial and recreational landings, foreign catches, employment, prices, and production of processed products are preliminary for 1989. Final data will be published in Fishery Statistics of the United States and other NMFS Current Fishery Statistics publications.

DEFINITIONS - (See Glossary)

As in past issues of this publication, the units of quantity and value are defined as follows: U.S. landings and foreign catch are shown in round weight (mollusk shells excluded), unless otherwise noted; quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census, unless otherwise noted; the value of the U.S. domestic commercial catch is exvessel; the value for U.S. imports is generally the market value in the foreign (exporting) country and, therefore, excludes U.S. import duties, freight charges from the foreign country to the United States, and insurance; the value for exports is generally the value at the U.S. port of export, based on the selling price, including inland freight, insurance, and other charges. Countries and territories shown in the U.S. foreign trade section are established for statistical purposes in the Tariff Schedules of the United States Annotated (Tariff Commission) and reported by the U.S. Bureau of the Census.

SUGGESTIONS

The Fisheries Statistics Division wishes to provide the kinds of data sought by users of fishery statistics, and welcomes any comments or suggestions that will improve this publication.

Address all comments or questions to:

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The Fisheries Statistics Division of NMFS takes this opportunity to thank members of states, industry, and foreign nations who provided the data that made this publication possible.

Program leaders of the field offices were: Ronnee Schultz and Robert A. Hall, New England, Middle Atlantic, Chesapeake and Great Lakes States; Richard Raulerson and Ernest Snell, South Atlantic and Gulf States; Patricia J. Donley, California and Hawaii; John K. Bishop, Oregon and Washington; and Janet Smoker, Alaska.

Members of the Fisheries Statistics Division in Silver Spring, who helped with this publication were: Margret Dancy, Edward Dickens, Ronald Essig, Ray Glass, Deborah Hogans, Mark Holliday, Willie Mae Holloway, Steven Koplin, Debbie Marks, Marta Nammack, Barbara O'Bannon, Robert Rosette, Richard Schween, David Sutherland, William Uttley, Lelia Wise, and John Witzig.

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REVIEW

IMPORTANT FACTS

U.S. LANDINGS. Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 states were a record 8.5 billion pounds (3.8 million metric tons) valued at $3.2 billion in 1989--an increase of 1.3 billion pounds (576,300 metric tons) in quantity, but a decrease of $281.8 million in value compared with 1988. Landings of major finfish species such as Atlantic and Pacific cod, Alaska pollock, and salmon increased. The 1989 average exvessel price per pound paid to fishermen was 38 cents compared to the 49 cents they received in 1988. Finfish accounted for 84 percent of total landings, but only 53 percent of the total value of finfish and shellfish.

Commercial landings by U.S. fishermen at ports outside the 50 states or transferred in the U.S. Exclusive Economic Zone (EEZ) onto foreign vessels (joint ventures) were an additional 2.2 billion pounds (994,000 metric tons) valued at $326.7 million. This was a 42 percent, or 1.6 billion pound (718,000 metric tons), decrease in quantity and a $163.1 million (33 percent) decrease in value compared with 1988. Most of these landings consisted of tuna landed at canneries in Puerto Rico, American Samoa and other foreign ports. Joint venture catches decreased significantly (see below).

Edible fish and shellfish landings in the 50 states were 6.2 billion pounds (2.8 million metric tons) in 1989--an increase of 1.6 billion pounds (733,000 metric tons) compared with 1988. Landings of shrimp, clams, Alaska pollock, crabs, Atlantic and Pacific cod, and salmon increased. Flounder and tuna landings decreased.

Landings for reduction and other industrial purposes were 2.3 billion pounds (1.0 million metric tons) in 1989--a decrease of 13 percent compared with 1988.

The U.S. marine recreational finfish catch in 1989 (excluding Alaska, Hawaii, and Pacific coast salmon) was an estimated 289.2 million fish. These fish weighed approximately 469.2 million pounds and were taken on an estimated 57.9 million fishing trips. The estimated number of U.S. marine recreational fishermen has been relatively stable over the last few years at 17 million.

JOINT VENTURE CATCH IN THE U.S. EEZ. Joint venture catches by U.S. fishermen unloaded onto foreign vessels were 771,000 metric tons (1.7 billion pounds) valued at $112.2 million. This was a 47 percent decrease in quantity over 1988, when 1.5 million metric tons (3.2 billion pounds) were caught, valued at $221.1 million. The major species were cod, flounders, Pacific hake, and Alaska pollock.

FOREIGN CATCH IN U.S. EEZ. The foreign catch of fish (excluding tunas) and shellfish in the U.S. EEZ was 37,200 metric tons (82.1 million pounds) in 1989, a 40 percent decrease compared with 1988 and 94 percent below the average for the preceding 5 years. The foreign catch off the North Atlantic U.S. EEZ supplied the largest share of the total (99 percent) followed by Alaska (less than one percent). There were no foreign catches in the U.S. EEZ off California, Oregon and Washington in 1989.

Atlantic mackerel comprised 99 percent of the foreign catch; butterfish, hakes, herrings and other fish and shellfish comprised the remainder.

The German Democratic Republic was the leading nation fishing in the U.S. EEZ with a catch of 18,000 metric tons, 48 percent of the total foreign catch. The USSR was the second leading nation fishing in the U.S. EEZ, with 11,000 metric tons representing 31 percent of the catch in 1989.

The 1989 foreign catch in the Pacific U.S. EEZ was only 122 metric tons, 18,216 metric tons (99 percent) less than 1988. Snails from the Eastern Bering Sea and Aleutian Islands were the only species harvested.

Foreign catches in the North Atlantic U.S. EEZ in 1989 were 37,100 metric tons, 6,200 metric tons (14 percent) less than the 1988 catch of 43,300 metric tons. The German Democratic Republic had the highest catch with 18,000 metric tons (49 percent), followed by the USSR with 11,500 metric tons (31 percent). Atlantic mackerel catches amounted to 36,800 metric tons (99 percent).

U.S. VS. FOREIGN CATCH IN U.S. EEZ. The combined catch by U.S. and foreign vessels in the U.S. EEZ was 2.7 million metric tons in 1989, a decrease of 269,000 metric tons (9 percent) compared with 1988. The U.S. share was 99 percent of the total, up 1 percentage point from 1988.

WORLD LANDINGS. In 1988, the most recent year for which data are available, world commercial fishery landings were a record 98.4 million metric tons--an increase of 4.6 million metric tons (5 percent) compared with 1987. Japan continued to be the leading nation with 12 percent of the total catch; the USSR, second with 11 percent; China, third with 10 percent; followed by Peru with 7 percent; and the United States with 6 percent.

PRICES. The procedure for calculating the index or exvessel prices for all fish and shellfish was reviewed and modified in 1986. In 1989 the index was

IMPORTANT FACTS

recalculated for all years with 1982 as the base year to conform with government standards. The 1989 annual exvessel price index for edible fish and shellfish decreased 19 percent from 1988. The annual index for industrial fish decreased 16 percent from 1988.

PROCESSED PRODUCTS. The 1989 estimated value of the domestic production of edible and nonedible fishery products was a record $6.9 billion, $1.1 billion (18 percent) more than the $5.8 billion in 1988. The value of edible products was $6.4 billion--an increase of $944.1 million (17 percent) compared with 1988. The value of industrial products was $444.4 million in 1989--an increase of $116.1 million (35 percent) compared with 1988.

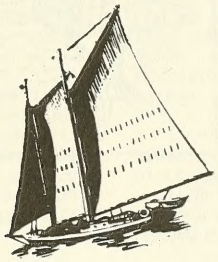
FOREIGN TRADE. The total import value of edible and nonedible fishery products was a record $9.6 billion in 1989--an increase of $732.4 million (8 percent) compared with 1988. Imports of edible fishery products (product weight) were 3.2 billion pounds (1.5 million metric tons) valued at $5.5 billion in 1989--an increase of 275.2 million pounds (9 percent) in quantity and $56.2 million (1 percent) in value compared with 1988. Imports of nonedible (i.e., industrial) products also set a value record in 1989, with products valued at $4.1 billion--an increase of $676.1 million (20 percent) compared with 1988.

Total export value of edible and nonedible fishery products of domestic origin was a record $4.7 billion in 1989--an increase of $2.4 billion (107 percent) compared with 1988. United States firms exported 1.4 billion pounds (623,200 metric tons) of edible products valued at $2.3 billion--an increase of 313.8 million pounds (142.3 metric tons) in quantity and $127.4 million in value compared with 1988. Exports of nonedible products were valued at $2.4 billion, $2.3 billion more than 1988. The $112.2 million received for U.S.-flag vessel catches transferred onto foreign vessels in the U.S. EEZ in joint venture operations are not included in the export statistics.

SUPPLY. The U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent) was 12.3 billion pounds (5.6 million metric tons) in 1989--an increase of 1.8 million pounds (17 percent) compared with 1988. The change reflects increases of 2 percent in imports and 35 percent in domestic commercial landings. Domestic commercial landings for industrial products of 2.3 billion pounds (1.0 million metric tons) were 345.0 million pounds less than 1988. The supply of industrial fishery products was 3.2 billion pounds (1.4 million metric tons) in 1989--a decrease of 906.0 million pounds (22 percent) compared with 1988.

PER CAPITA CONSUMPTION. U.S. consumption of fishery products was a record 15.9 pounds of edible meat per person in 1989, up 0.7 from the revised 1988 consumption of 15.2 pounds.

CONSUMER EXPENDITURES. U.S. consumers spent an estimated $28.3 billion for fishery products in 1989--an increase of $1.4 billion (5 percent) compared with 1988. The 1989 total includes $19.1 billion in expenditures in food service establishments (restaurants, carry-outs, caterers, etc.); $9.0 billion in retail stores (for home consumption); and $181.7 million for industrial fish products. In producing and marketing a variety of fishery products for domestic and foreign markets, the commercial marine fishing industry contributed $17.2 billion (in value added) to the U.S. Gross National Product (GNP)--an increase of $832.7 million (5 percent) compared with 1988.



REVIEW

OTHER IMPORTANT FACTS

Alaska pollock, with landings of 2.4 billion pounds (1.1 million metric tons), was the most important species in quantity in 1989, accounting for 28 percent of the commercial fishery landings in the United States, and was fourth in value.

Menhaden was the second most important species in quantity, but was low in value.

Salmon was the third most important in quantity and first in value.

Crabs were fourth in quantity and third in value.

Cod was the fifth most important in quantity, but was low in value.

Shrimp were sixth in quantity and second in value.

Lobster and scallops were the fifth and sixth most important species in value, respectively.

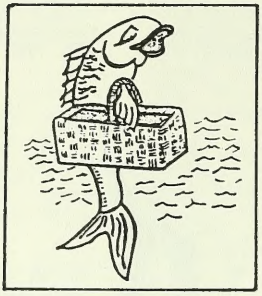
Tuna landings by U.S.-flag vessels at ports outside the continental United States amounted to 452.0 million pounds. Other species including Pacific cod, Pacific hake and flounders were landed at ports outside the United States and transferred on to foreign vessels in the U.S. EEZ.

Dutch Harbor-Unalaska, Alaska, was the leading U.S. port in quantity of commercial fishery landings, followed by Cameron, Louisiana; Pascagoula-Moss Point, Mississippi; Empire-Venice, Louisiana; Kodiak, Alaska and Dulac-Chauvin, Louisiana.

New Bedford, Massachusetts was the leading U.S. port in terms of value, followed by Dutch Harbor-Unalaska, Kodiak, Petersburg, and Kenai, Alaska.

Alaska led all states in volume with landings of 4.1 billion pounds, followed by Louisiana, 1.2 billion; Virginia, 692.8 million; California, 418.4 million; and Mississippi, 298.2 million pounds.

Alaska led all states in value with $1.2 billion, followed by Massachusetts, $272.8 million; Louisiana, $264.2; Florida, $185.9; and Texas, $170.1 million.



REVIEW

IMPORTANT SPECIES

ALASKA POLLOCK AND OTHER PACIFIC TRAWL FISH. U.S. landings of Pacific trawl fish (Pacific cod, flounders, Pacific hake (whiting), Pacific ocean perch, Alaska pollock, and rockfishes) were 3.0 billion pounds valued at $320.5 million--an increase of 68 percent in quantity compared with 1988.

Landings of Alaska pollock increased 88 percent to 2.4 billion pounds, more than five times higher than the 1984-1988 5-year average. Landings of Pacific cod were 372.1 million pounds -- an increase of 39 percent from 267.2 million pounds in 1988. Pacific hake (whiting) landings were 16.6 million pounds (up 5 percent from 1988) valued at $1.1 million (down 6 percent from 1988). The 1989 landings of Pacific hake were well below the 5-year average. Landings of rockfishes were 133.6 million pounds (8 percent higher than 1988) valued at $42.3 million. The 1989 rockfish landings were 33 percent higher than the 5-year average.

ANCHOVIES. U.S. landings of anchovies were 13.4 million pounds--an increase of 964,000 pounds (8 percent) compared with 1988. Almost all the landings were used for bait, while less than one percent went into animal food.

HALIBUT. U.S. landings of Atlantic and Pacific halibut were 75.2 million pounds (round weight) valued at $85.1 million--a decrease of 6.4 million pounds (8 percent), but an increase of $12.4 million (17 percent) in value compared with 1988. The Pacific fishery accounted for all but 45,000 pounds of the 1989 total catch. The average exvessel price per pound in 1989 was $1.13 compared with 89 cents in 1988.

HERRING, SEA. U.S. commercial landings of sea herring were 209.0 million pounds valued at $29.4 million--a decrease of 12.8 million pounds (6 percent) in quantity and $33.2 million (53 percent) in value compared with 1988. Landings of Atlantic sea herring were 89.7 million pounds valued at $5.0 million--a decrease of 740,000 pounds (1 percent) in quantity and $188,000 (4 percent) in value compared with 1988.

Landings of Pacific sea herring were 119.3 million pounds valued at $24.4 million--a decrease of 12.1 million pounds (9 percent) in quantity and $33.0 million (58 percent) in value compared with 1988. Alaskan landings were 96.9 million pounds valued at $18.7 million --a decrease of 17.0 million pounds (15 percent) and $32.2 million (63 percent) compared with 1988.

JACK MACKEREL. Landings of jack mackerel in 1989 were 28.4 million pounds valued at $1.9 million--an increase of 5.9 million pounds (26 percent) in quantity and $242,000 in value compared with 1988. The 1989 average exvessel price per pound was 7 cents.

MACKEREL, ATLANTIC. U.S. landings of Atlantic mackerel were 17.9 million pounds valued at $3.2 million--an increase of 3.2 million pounds (21 percent) in quantity and $1.2 million in value (62 percent) compared with 1988. Rhode Island was the leading state with 7.0 million pounds (39 percent) of the total catch. The average exvessel price per pound in 1989 was 18 cents, up 5 cents from 1988.

MACKEREL, PACIFIC. Landings of Pacific mackerel were 88.7 million pounds valued at $6.0 million--a decrease of 11.7 million pounds (12 percent) in quantity and $1.5 million (20 percent) in value compared with 1988. The average exvessel price remained stable at 7 cents per pound.

MENHADEN. The U.S. menhaden landings were 2.0 billion pounds valued at $84.5 million--a decrease of 97.3 million pounds (5 percent) in quantity, and $21.2 million (20 percent) in value compared with 1988. Landings increased by 24.8 million pounds (4 percent) in the Atlantic States and decreased 122.1 million pounds (9 percent) in the Gulf States compared with 1988. Landings along the Atlantic coast were 702.7 million pounds valued at $32.1 million. Gulf region landings were 1.3 billion pounds valued at $52.3 million. Menhaden are used primarily for the production of meal, oil, and solubles. Small quantities are used for bait and canned pet food.

NORTH ATLANTIC TRAWL FISH. North Atlantic landings of butterfish, Atlantic cod, cusk, flounder (blackback, fluke, yellowtail and other), haddock, red and white hake, ocean perch, pollock and whiting (silver hake) were $239.1 million pounds valued at $172.3 million--a decrease of 28.9 million pounds (11 percent) in quantity and a decrease of $13.5 million (7 percent) in value compared with 1988. Of these species, flounders led in value, accounting for 52 percent of the total; followed by Atlantic cod, 28 percent; and pollock, 6 percent.

The 1989 landings of Atlantic cod were 78.4 million pounds valued at $47.8 million--an increase of 2.4 million pounds (3 percent) and $4.8 million (11 percent) in value compared with 1988. The exvessel price per pound was 61 cents per pound in 1989 compared with 56 cents per pound in 1988.

Landings of yellowtail flounder increased for the first time in six consecutive years to 12.3 million

pounds, an increase of 1.2 million pounds (11 percent) from 1988, but were still below the 5-year average.

Haddock landings continued to decline in 1989 to 3.8 million pounds (down 41 percent from 1988). Value decreased to $4.5 million (down 35 percent) from 1988.

The North Atlantic pollock landings were 23.2 million pounds in 1989 valued at $9.9 million, a decrease of 9.8 million pounds (30 percent) in quantity and $1.1 million (10 percent) in value compared with 1988.

PACIFIC SALMON. U.S. commercial landings of salmon were 785.9 million pounds valued at $591.2 million--an increase of 179.7 million pounds (30 percent) in quantity and a decrease of $319.4 million (35 percent) in value compared with 1988. Alaska accounted for 91 percent of the total landings; Washington, 7 percent; Oregon and California, 2 percent; landings of 406,000 pounds of silver salmon were taken from the Great Lakes. Red salmon landings were 274.1 million pounds valued at $346.4 million, an increase of 84.0 million pounds (44 percent) in quantity, but a decrease of $91.2 million (21 percent) in value compared with 1988. King salmon landings decreased to 31.5 million pounds--down 14.2 million pounds (31 percent) from 1988. Pink salmon landings of 367.9 million pounds in 1989 increased by 191.4 million pounds (108 percent); chum salmon, 68.7 million pounds, decreased 77.8 million pounds (53 percent); and silver salmon, 43.8 million pounds, decreased 3.7 million pounds (8 percent) compared with 1988.

Alaska landings of 713.0 million pounds valued at $506.7 million increased 186.6 million pounds (35 percent) in quantity and a decrease of $238.2 million (32 percent) in value compared with 1988. The distribution of Alaska salmon landings by species in 1989 was: sockeye, 261.7 million pounds (37 percent); pink, 351.2 million pounds (49 percent); chum, 58.8 million pounds (8 percent), coho, 30.9 million pounds (4 percent), and chinook, 10.5 million pounds (1 percent). The exvessel price per pound for all species in Alaska was 71 cents in 1989, down 70 cents from 1988.

Washington salmon landings were 55.3 million pounds valued at $56.9 million--an increase of 7.9 million pounds (17 percent) in quantity, but a decrease of $28.6 million (33 percent) in value compared with 1988. The biennial fishery for pink salmon went from 1,000 pounds in 1988 to 16.6 million pounds in 1989. Washington landings of red salmon were 12.4 million pounds--up 7.1 million pounds (134 percent), followed by chum, 9.9 million pounds (down 60 percent), silver, 8.4 million pounds (up 2 percent), and chinook, 8.0 million pounds (down 11 percent) compared with 1988. The average exvessel price per pound for all species in Washington decreased from $1.80 in 1988 to $1.03 in 1989.

Oregon salmon landings were 11.5 million pounds valued at $14.1 million--a decrease of 6.0 million pounds (34 percent) in quantity and $24.3 million (63 percent) in value compared with 1988. Landings of chinook salmon decreased to 7.6 million pounds (down 35 percent); silver, 3.8 million pounds (down 33 percent); pink, 20,000 pounds, unreported in 1988; and chum, 4,000 pounds (down 71 percent) compared with 1988. The average exvessel price per pound for all species in Oregon decreased from $2.20 in 1988 to $1.23 cents in 1989.

California salmon landings were 5.7 million pounds valued at $13.3 million--a decrease of 9.1 million pounds (62 percent) in quantity and $28.6 million (68 percent) compared with 1988. Chinook salmon landings were 5.4 million pounds valued at $12.9 million--a decrease of 9.0 million pounds (62 percent) in quantity and $28.3 million (69 percent) in value compared with 1988. Landings of silver salmon decreased to 229,000 pounds (down 28 percent) in quantity and $320,000 (down 45 percent) in value compared with 1988. The average exvessel price per pound paid to fishermen for all species in 1989 was $2.35 compared with $2.84 in 1988.

SABLEFISH. U.S. commercial landings of sablefish were 97.6 million pounds valued at $73.3 million--a decrease of 9.9 million pounds (9 percent) in quantity, and $18.5 million (20 percent) in value compared with 1988. Landings decreased in Alaska to 75.5 million pounds (down 9 percent) compared with 1988. Landings decreased in Washington to 5.6 million pounds (down 22 percent), and in California to 7.4 million pounds (down 11 percent) compared with 1988. The 1989 Oregon catch of 9.1 million pounds was the same as the 1988 catch. The average exvessel price per pound in 1989 was 75 cents compared with 85 cents in 1988.

TUNA. Landings of tuna by U.S. fishermen at ports in the 50 United States, Puerto Rico, American Samoa, other U.S. territories, and foreign ports were 541.5 million pounds valued at $309.0 million--a decrease of 67.9 million pounds (11 percent) in quantity and

$71.6 million (19 percent) in value compared with 1988. The average exvessel price per pound of all species of tuna in 1989 was 57 cents compared with 62 cents in 1988.

Bigeye landings were 4.5 million pounds--a decrease of 902,000 pounds (17 percent) compared with 1988. The average exvessel price per pound was $3.43 in 1989 compared with $2.78 in 1988.

Skipjack landings were 245.6 million pounds--a decrease of 54.4 million pounds (18 percent) compared with 1988. The average exvessel price per pound was 41 cents in 1989 compared with 50 cents in 1988.

Yellowfin landings were 273.7 million pounds --a decrease of 6.6 million pounds (2 percent) compared with 1988. The average exvessel price per pound was 58 cents in 1989 compared with 65 cents in 1988.

Bluefin landings were 4.7 million pounds--an increase of 1.0 million pounds (27 percent) compared with 1988. The average exvessel price per pound in 1989 was $4.82 compared with $4.62 in 1989.

CLAMS. Landings of all species yielded 138.2 million pounds of meats valued at $134.9 million--an increase of 6.4 million pounds (5 percent) in quantity and $162,000 (less than 1 percent) in value compared with 1988. The average exvessel price per pound decreased to 98 cents in 1989 from $1.02 in 1988.

Surf clams yielded 67.1 million pounds of meats valued at $30.7 million--an increase of 3.5 million pounds (6 percent) in quantity, and $1.5 million (5 percent) in value compared with 1988. New Jersey was the leading State with 42.9 million pounds (up 15 percent from 1988), followed by Virginia, 7.4 million pounds (down 31 percent); New York, 6.3 million pounds (up 119 percent); Maryland, 5.6 million pounds (down 20 percent); and Massachusetts, 3.4 million pounds (down 24 percent). The average exvessel price per pound of meats was 46 cents in 1989, the same as 1988.

The ocean quahog fishery produced 51.0 million pounds of meats valued at $16.4 million--an increase of 4.7 million pounds (10 percent) in quantity, and $1.5 million (10 percent) in value compared with 1988. New Jersey was the leading producer with 27.0 million pounds of meats accounting for 53 percent of the total ocean quahog landings. The value for New Jersey in 1989 was $7.8 million--an increase of $2.8 million (56 percent) compared with 1988. The average exvessel price per pound of meats was 32 cents in 1989, the same as 1988.

The hard clam fishery produced 9.3 million pounds of meats valued at $44.9 million--a decrease of 3.1 million pounds (25 percent) in quantity and $22.9 million (34 percent) in value compared with 1988. Landings in the New England region were 3.6 million pounds of meats (down 14 percent); Middle Atlantic region, 1.2 million pounds (down 71 percent); Chesapeake region, 1.5 million pounds (up 17 percent); and the South Atlantic region, 1.8 million pounds (up 15 percent). The average exvessel price per pound of meats decreased from $5.48 in 1988 to $4.84 in 1989.

Soft clams yielded 6.8 million pounds of meats valued at $19.9 million--an increase of 15,000 pounds (less than 1 percent) in quantity, and $1.1 million (6 percent) in value compared with 1988. Maryland was the leading State with 2.9 million pounds of meats (down 6 percent from 1988), followed by Maine with 2.5 million pounds (up 9 percent) and Massachusetts with 1.1 million pounds (down 12 percent). The average exvessel price per pound of meats was $4.84 in 1989 compared with $5.48 in 1988.

CRABS. Landings of all species of crabs were 458.4 million pounds valued at $414.4 million--an increase of 2.7 million pounds (1 percent) in quantity and $30.8 million (8 percent) in value compared with 1988.

Hard blue crab landings were 206.7 million pounds valued at $81.0 million--a decrease of 11.9 million pounds (5 percent) in quantity and $3.4 million (4 percent) in value compared with 1988. Hard blue crab landings in the Chesapeake region of 89.0 million pounds increased 10.1 million pounds (13 percent), and the South Atlantic region landings of 52.3 million pounds decreased by 1.9 million pounds (4 percent). The Gulf region, with 55.2 million pounds, decreased 22.6 million pounds (29 percent). The Middle Atlantic region landings of 11.5 million pounds valued at $5.4 million increased 2.4 million pounds (27 percent) in quantity and $1.0 million (25 percent) in value compared with 1988. The average exvessel price per pound of hard blue crabs was 39 cents in 1989, the same as 1988.

Dungeness crab landings were 41.0 million pounds valued at $45.5 million--a decrease of 6.5 million pounds (14 percent) in quantity and $9.2 million (17 percent) in value compared with 1988. Washington landings of 20.0 million pounds led all

states with 49 percent of the total landings an increase of 1.9 million pounds (11 percent) compared with 1988. Alaska decreased in landings with 7.5 million pounds, down 27 percent compared with 1988. Oregon landings were 11.7 million pounds, up 24 percent compared with 1988. California decreased in landings with 1.8 million pounds (down 81 percent from 1988). The average exvessel price per pound was $1.11 in 1989 compared with $1.15 in 1988.

U.S. landings of king crab were 26.4 million pounds valued at $106.2 million--an increase of 5.4 million pounds (26 percent) compared with 1988. The average exvessel price per pound in 1989 was $4.02 compared with $4.01 in 1988.

Snow (tanner) crab landings were 164.6 million pounds valued at $160.1 million--an increase of 18.3 million pounds (13 percent) in quantity and $23.0 million (17 percent) in value compared with 1988. The average exvessel price per pound was 97 cents in 1989, up from 94 cents in 1988.

LOBSTER, AMERICAN. American lobster landings were 52.9 million pounds valued at $149.1 million--an increase in quantity of 4.3 million pounds in quantity (9 percent) and an increase in value of $3.9 million in value (3 percent) compared with 1988. Maine led in landings for the eighth consecutiveyear with 23.3 million pounds valued at $59.2 million -- up 1.5 million pounds (7 percent) from 1988. Massachusetts, the second leading producer, had landings of 16.2 million pounds valued at $48.5 million, an increase of 719,000 pounds (5 percent) compared with 1988. These two states combined to produce 74 percent of the total national landings. The average exvessel price per pound was $2.82 in 1989 compared with $2.99 in 1988.

LOBSTERS, SPINY. U.S. landings of spiny lobster were 8.1 million pounds valued at $26.4 million--an increase of 959,000 pounds (13 percent) in quantity and $3.4 million (15 percent) in value compared with 1988. Florida, with landings of 6.5 million pounds valued at $18.7 million, accounted for 80 percent of the total catch and 71 percent of the value. This was an increase of 1.1 million pounds (20 percent) in quantity and $3.2 million (21 percent) in value compared with 1988. Overall the average exvessel price per pound was $3.26 in 1989 compared with $3.21 in 1988.

OYSTERS. U.S. oyster landings yielded 29.9 million pounds of meats valued at $83.6 million--a decrease of 2.0 million pounds (6 percent) in quantity, but an increase of $5.1 million (6 percent) in value compared with 1988. The Gulf region (principally Louisiana with 77 percent of the region's total volume) led in production with 14.8 million pounds of meats, 50 percent of the national total; followed by the Pacific region with 7.9 million pounds (26 percent), and the Chesapeake region, with 4.1 million pounds (14 percent). The average exvessel price per pound of meats was $2.79 in 1989 compared with $2.46 in 1988.

SHRIMP. U.S. landings of shrimp were 351.5 million pounds valued at $467.6 million--an increase of 20.6 million pounds (6 percent) in quantity, but a decrease of $38.5 million (8 percent) in value compared with 1988. Shrimp landings increased in all areas: New England (up 17 percent), the South Atlantic (up 39 percent), the Gulf coast (up 1 percent), and the Pacific (up 10 percent), when compared with 1988. The average exvessel price per pound of shrimp decreased to $1.33 in 1989 compared with $1.53 in 1988. Gulf region landings were 228.4 million pounds compared with 225.8 million pounds in 1988. Louisiana led all Gulf states with 100.8 million pounds (down 2 percent), followed by Texas, 79.0 million pounds (up 1 percent); Florida (west coast), 16.2 million pounds (up 2 percent); Mississippi, 15.7 million pounds (up 9 percent); and Alabama, 16.7 million pounds (up 17 percent). Oregon was the third leading State nationwide with landings of 49.1 million pounds (up 17 percent), and Washington landings were 16.0 million pounds, down 13 percent compared with 1988.

SCALLOPS. U.S. landings of all species of scallops were 40.6 million pounds of meats valued at $140.2 million--a decrease of 2.4 million pounds (6 percent) in quantity, and $3.9 million (3 percent) in value compared with 1988. The average exvessel price per pound of meats increased from $3.35 in 1988 to $3.45 in 1989.

Bay scallop landings were 274,000 pounds of meats valued at $1.7 million--a decrease of 295,000 pounds (52 percent) in quantity, $1.7 million (51 percent) in value compared with 1988. Massachusetts was the leading state with 215,000 pounds of meats, 78 percent of the national total. The average exvessel price per pound of meats was $6.12 in 1989 compared with $6.00 in 1988.

Sea scallop landings were 33.8 million pounds of meats valued at $132.6 million--an increase of 3.2 million pounds (10 percent) in quantity and $4.4 million (3 percent) in value compared with 1988.

REVIEW

IMPORTANT SPECIES

Massachusetts was the leading state in landings of sea scallops with 18.3 million pounds of meats, 54 percent of the national total. The average exvessel price per pound of meats in 1989 was $3.93 compared with $4.20 in 1988.

Landings of calico scallops were 6.6 million pounds of meats valued at $5.9 million--a decrease of 5.3 million pounds (45 percent) in quantity and $6.5 million (52 percent) in value compared with 1988. Florida (east coast) had 48 percent of the total landings in 1989. The average exvessel price per pound of meats was 90 cents in 1989 compared with $1.05 in 1988.

SQUID. U.S. commercial landings of squid were 127.3 million pounds valued at $31.1 million--an increase of 173,000 pounds (less than 1 percent) and $7.2 million (30 percent) compared with 1988. California was the leading state with 60.4 million pounds, 47 percent of the national total.

The New England region landings were 47.5 million pounds (up 97 percent from 1988). Landings in the Middle Atlantic region were 17.5 million pounds (up 1 percent), and the Chesapeake Region, 1.8 million pounds (up 590 percent). The average exvessel price per pound for squid was 24 cents in 1989, compared with 19 cents in 1988.

PER CAPITA CONSUMPTION

PER CAPITA CONSUMPTION. U.S. per capita consumption of fish and shellfish was 15.9 pounds (edible meat) in 1989. This total was 0.7 pounds more than 15.2 pounds consumed per capita in 1988.

Per capita consumption of fresh and frozen products was 10.5 pounds, an increase of 0.3 pounds from the 1988 level. Fresh and frozen finfish consumption was 7.1 pounds per capita in 1989, while fresh and frozen shellfish consumption was 3.4 pounds per capita. The fresh and frozen finfish consumption includes approximately 0.7 pounds per capita from domestic farm-raised catfish, 0.1 pound more than in 1988.

Consumption of canned fishery products was 5.1 pounds per capita in 1989, 0.4 pounds more than in 1988.

PER CAPITA USE. The per capita use of all fishery products (edible and industrial) in 1989 was 62.2 pounds (round weight) -- up 2.8 pounds compared with 1988.

REVIEW

PROCESSED FISHERY PRODUCTS

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1989 the U.S. production of raw (uncooked) fish fillets and steaks, including blocks, was 389.6 million pounds--11.4 million pounds more than the 378.2 million pounds in 1988. These fillets and steaks were valued at $737.0 million--$29.9 million less than 1988. Alaska pollock fillets and blocks led all species with 131.3 million pounds--34 percent of the total. Production of groundfish fillets and steaks (cod, cusk, haddock, hake, Atlantic ocean perch, and Atlantic pollock) was 95.9 million pounds compared with 88.2 million in 1988.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 368.9 million pounds valued at $516.7 million compared with the 1988 production of 381.4 million pounds valued at $552.7 million--a decrease of 12.5 million pounds and $36.0 million.

The total production of fish sticks amounted to 89.1 million pounds valued at $116.4 million, an increase of 9.0 million pounds and $2.6 million compared with 1988. The total production of fish portions amounted to 279.8 million pounds valued at $400.3 million--a decrease of 21.5 million pounds in quantity and $38.6 million compared with 1988.

BREADED SHRIMP. The production of breaded shrimp in 1989 was a record 121.0 million pounds valued at $404.6 million, compared with the 1988 production of 99.5 million pounds valued at $292.9 million.

FROZEN FISHERY TRADE. In 1989, stocks of frozen fishery products in cold storage were at a low of 329.2 million pounds on April 30 and a high of 444.9 million pounds on September 30. Cold storage holdings of shrimp products were at a high of 57.4 million pounds on October 31 and a low of 44.3 million pounds on May 31. Saltwater fillets and steaks holdings reached a high of 116.4 million pounds on December 31 and were at a low of 64.2 million pounds on March 31. Holdings of blocks and slabs were at a high of 63.5 million pounds on August 31 and at a low of 46.6 million pounds on April 30. King crab holdings were 3.4 million pounds on December 31, but reached a low of 1.4 million pounds on June 30, 1989. Cold storage holdings showed an increase for eight months of 1989 when compared with 1988.

REVIEW

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS. The pack of canned fishery products in the 50 states, American Samoa, and Puerto Rico was 54.7 million standard cases (1.5 billion pounds) valued at $2.0 billion--an increase of 9.4 million standard cases (324.0 million pounds), and $511.1 million compared with the 1988 pack. The 1989 pack included 47.5 million cases (1.1 billion pounds) valued at $1.8 billion for human consumption, and 7.2 million standard cases (345.5 million pounds) valued at $238.3 million for bait and animal food.

CANNED SALMON. The 1989 U.S. pack of natural Pacific salmon was 4.1 million standard cases (197.0 million pounds) valued at $513.6 million, compared with 1.8 million standard cases (88.4 million pounds) valued at $219.4 million packed in 1988. Alaskan plants accounted for 94 percent in quantity and 95 percent in value of the salmon pack.

CANNED SARDINES. The pack of Maine sardines (sea herring) was 564,989 standard cases (13.2 million pounds) valued at $16.8 million, a decrease of 231,192 standard cases (5.4 million pounds) and $7.3 million compared with 1988. An additional 206,185 standard cases (4.8 million pounds) of herring valued at $7.2 million were packed in 1989 -- 21,572 standard cases (505 thousands pounds) and $1.2 million more than the 1988 pack.

CANNED TUNA. The U.S. pack of tuna was 35.2 million standard cases (686.3 million pounds) valued at $1.1 billion--an increase of 4.5 million standard cases (88.1 million pounds) in quantity, and $97.6 million in value compared with the 1988 pack. The pack of albacore tuna was 7.0 million standard cases--316,000 standard cases more than the 6.7 million standard cases produced in 1988. Albacore tuna was 20 percent of the tuna pack in 1989. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 28.2 million standard cases--4.2 million standard cases more than the 24.0 million standard cases packed in 1988.

CANNED CLAMS. The U.S. pack of clams (whole, minced, chowder, and juice) was 5.3 million standard cases (123.6 million pounds) valued at $82.1 million, an increase of 440,223 standard cases (5.3 million pounds) in quantity but a decrease of $8.6 million more in value than the pack in 1988. The pack of whole and minced clams of 2.4 million standard cases (529,886 standard cases more than the 1988 pack) accounted for 45 percent of the total clam pack. Clam chowder and clam juice (2.9 million standard cases) made up the majority of the remaining pack.

CANNED SHRIMP. The U.S. pack of natural shrimp was 338,610 standard cases (2.6 million pounds) valued at $8.8 million--a decrease of 274,522 standard cases (1.9 million pounds) and $16.2 million compared with the 1988 pack.

OTHER CANNED ITEMS. The pack of pet food was 7.2 million standard cases valued at $237.8 million--an increase of 2.6 million standard cases compared with the pack in 1988.

REVIEW

PROCESSED FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS

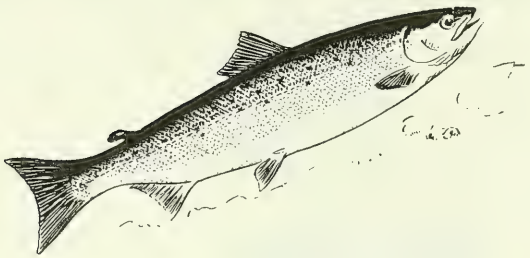
INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of industrial fishery products was $206.1 million--a decrease of $29.5 million compared with the 1988 value of $235.6 million. The leading state was Louisiana ($68.7 million) which accounted for 33 percent of the total U.S. value for 1989.

FISH MEAL AND SCRAP. The domestic production of fish meal and scrap (including shellfish) was 618.4 million pounds valued at $115.0 million--a decrease of 25.4 million pounds from the 1988 volume and $15.6 million in value. Menhaden meal production was 463.9 million pounds valued at $89.1 million--a decrease of 40.6 million pounds and $24.9 million compared with 1988. Menhaden accounted for 75 percent of the 1989 production of fish meal and scrap. Shellfish meal production was 25.4 million pounds--an increase of 6.6 million pounds from the 1988 level. Tuna and mackerel meal production was 82.3 million pounds--an increase of 6.3 million pounds from 1988. Production of unclassified meal (consisting mainly of alewives, anchovy, carp, sea herring, and unclassified fish) was 46.8 million pounds--an increase of 2.3 million pounds compared with 1988.

FISH SOLUBLES. Domestic production of fish solubles was 232.7 million pounds, 9.3 million pounds more than the 1988 production.

FISH OILS. The domestic production of fish oils was 225.5 million pounds valued at $23.5 million--an increase of 753,000 pounds but a decrease of $20.1 million in value compared with 1988 production. The production of menhaden oil was 218.6 million pounds valued at $23.2 million--an increase of 1.1 million pounds but $19.6 million less in value compared with 1988. Menhaden oil accounted for 97 percent of the volume and 98 percent of the value of the total 1989 fish oil production. Unclassified oil production decreased by 304,000 pounds.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss extracts, kelp products, dry and liquid fertilizers, pearl essence, shark leathers, and mussel shell buttons were valued at $49.8 million, compared with $46.7 million in 1988--an increase of $3.0 million.



FOREIGN TRADE IN FISHERY PRODUCTS

IMPORTS. U.S. imports of edible fishery products in 1989 were valued at $5.5 billion, $56.2 million more than in 1988. The quantity of edible imports was a record 3.2 billion pounds, 275.2 million pounds higher than the quantity imported in 1988.

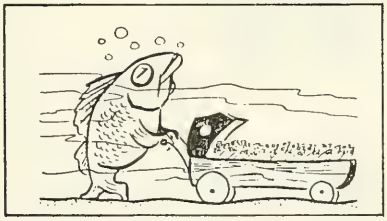
The quantity of shrimp imported in 1989 was 503.0 million pounds, 914,000 pounds less than the previous record quantity imported in 1988. Valued at $1.7 billion, $49.5 million less than the 1988 value, shrimp imports accounted for 31 percent of the value of total edible imports. Imports of fresh and frozen tuna were 649.7 million pounds, 99.6 million pounds more than the 550.1 million pounds imported in 1988. Imports of canned tuna-not in oil were 347.8 million pounds, 103.6 million pounds more than the 244.2 million pounds imported in 1988. Imports of fresh and frozen fillets and steaks amounted to 517.6 million pounds, a decrease of 91,000 pounds from 1988. Regular and minced block imports were 283.3 million pounds, a decline of 20.0 million pounds from 1988. Edible imports consisted of 2.6 billion pounds of fresh and frozen products valued at $4.7 billion, 532.1 million pounds of canned products valued at $639.2 million, 65.8 million pounds of cured products valued at $97.2 million, 2.1 million pounds of caviar and roe products valued at $14.4 million, and 15.6 million pounds of other products valued at $26.1 million.

Imports of nonedible fishery products were valued at a record $4.1 billion, $676.1 million more than the $3.4 billion imported in 1988. Total value of edible and nonedible products resulted in a record import value of $9.6 billion in 1989, $732.4 million more than the previous record in 1988, when $8.9 billion of fishery products were imported.

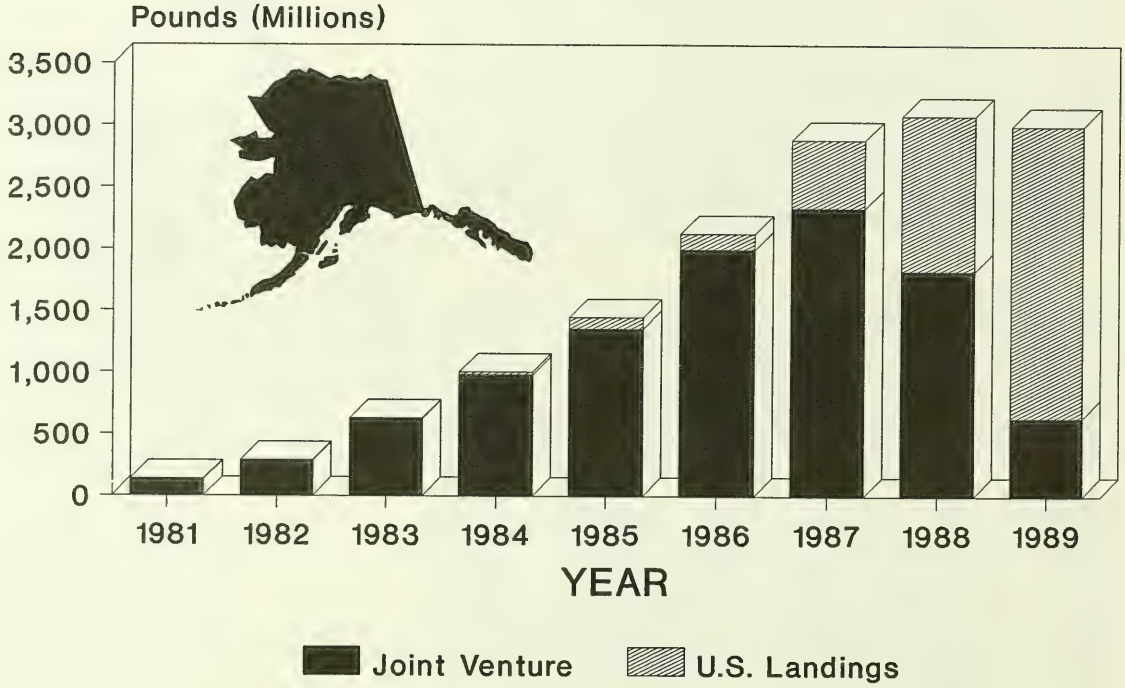
EXPORTS. U.S. exports of edible fishery products of domestic origin were a record 1.4 billion pounds valued at a record $2.3 billion, compared with 1.1 billion pounds at $2.2 billion exported in 1988. The $112.2 million received for U.S.-flag vessel catches transferred onto foreign vessels in the U.S. Exclusive Economic Zone joint venture operations are not included in the export statistics.

Fresh and frozen items were 1.1 billion pounds valued at $1.8 billion, an increase of 197.5 million pounds and $17.4 million compared with 1988. Fresh and frozen exports consisted principally of 337.4 million pounds of salmon valued at $747.3 million and 81.7 million pounds of crabs valued at $246.3 million. Canned items were 136.5 million pounds valued at $211.2 million. Salmon was the major canned item exported, with 40.4 million pounds valued at $89.7 million. Cured items were 26.7 million pounds valued at $31.6 million. Caviar and roe exports were 72.8 million pounds valued at $195.0 million, an increase of 27.9 million pounds and $50.3 million compared with 1988.

Exports of nonedible products were valued at a record $2.4 billion compared with $199.0 million in 1988. The dramatic increase of nonedible fishery products is due to the change in the new schedule B exports codes in 1989 (see page 54).Exports of fishmeal amounted to 103.8 million pounds valued at $23.8 million. The total value of edible and nonedible exports was $4.7 billion.



U.S. COMMERCIAL CATCH OF ALASKAN POLLOCK



U.S. DOMESTIC LANDINGS, BY SPECIES, 1988 AND 1989 (1)

Species	1988		1989		Aver. (1984-88)
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Alewives:					
Atlantic and Gulf.	5,645	625	4,169	508	9,218
Great Lakes.....	10,705	191	10,030	173	18,770
Anchovies.....	12,425	2,615	13,389	2,696	14,216
Bluefish.....	16,853	3,012	10,429	2,245	14,501
Bonito.....	9,210	1,827	2,676	582	6,686
Butterfish.....	5,441	3,407	7,077	4,116	12,400
Cod:					
Atlantic.....	76,073	42,941	78,423	47,772	75,181
Pacific.....	267,205	38,429	372,137	55,375	155,628
Croaker.....	10,604	4,596	8,287	4,114	11,138
Cusk.....	2,363	1,021	2,058	974	3,745
Flounders:					
Atlantic and Gulf:					
Blackback.....	18,103	21,533	14,655	19,609	21,863
Fluke.....	36,011	44,345	21,840	33,447	34,336
Yellowtail.....	11,114	13,187	12,294	13,911	22,908
Other.....	25,608	27,022	20,206	22,712	35,299
Pacific.....	137,784	34,055	133,494	30,152	88,213
Total.....	*228,620*	*140,142*	*202,489*	*119,831*	*202,619*
Groupers.....	12,228	21,703	15,149	25,588	11,547
Haddock.....	6,429	7,030	3,808	4,538	12,897
Hake:					
Pacific (whiting).	15,740	1,160	16,564	1,094	22,244
Red.....	3,834	618	3,436	591	4,386
White.....	12,006	3,639	11,286	4,423	14,250
Halibut.....	81,608	72,718	75,168	85,145	68,866
Herring, sea:					
Atlantic.....	90,397	5,229	89,657	5,041	77,046
Pacific.....	131,432	57,431	119,346	24,391	126,322
Jack mackerel.....	22,546	1,685	28,422	1,927	23,418
Lingcod.....	6,536	2,385	8,003	2,785	7,511
Mackerel:					
Atlantic.....	14,753	1,962	17,913	3,182	9,481
King.....	4,308	5,043	3,772	4,287	4,999
Pacific.....	100,342	7,498	88,667	6,023	89,680
Spanish.....	4,237	1,479	6,759	3,037	5,503
Menhaden:					
Atlantic.....	677,928	32,445	702,688	32,129	694,197
Gulf.....	1,408,140	73,259	1,286,038	52,333	1,869,841
Total.....	*2,086,068*	*105,704*	*1,988,726*	*84,462*	*2,564,039*
Mullets.....	32,642	11,218	31,594	15,023	25,680
Ocean perch:					
Atlantic.....	2,350	1,467	1,392	919	7,025
Pacific.....	11,919	2,546	22,332	4,646	12,918
Pollock:					
Atlantic.....	33,052	11,071	23,249	9,922	43,236
Alaska.....	1,257,251	95,252	2,361,988	186,921	411,314
Rockfishes.....	124,026	38,663	133,623	42,338	100,323
Sablefish.....	107,511	91,779	97,590	73,272	81,698
Salmon, Pacific:					
Chinook or king...	45,672	117,551	31,466	48,531	33,071
Chum or keta.....	146,467	134,689	68,685	30,078	105,017
Pink.....	176,487	127,297	367,898	132,784	241,839
Red or sockeye....	190,036	437,630	274,051	346,442	219,080
Silver or coho....	47,486	93,506	43,768	33,399	50,001
Total.....	*606,148*	*910,673*	*785,868*	*591,234*	*649,008*
Scup or porgy.....	14,358	9,572	9,582	7,720	15,867
Sea bass:					
Black.....	4,824	5,144	3,854	4,528	4,690
White.....	107	218	94	202	112
Sea trout:					
Gray.....	20,533	7,948	14,187	7,160	19,038
Spotted.....	3,094	3,169	3,438	3,386	3,127
White.....	371	229	299	136	505
Sharks:					
Dogfish.....	10,070	975	12,804	1,602	10,597
Other.....	14,598	8,454	17,174	9,364	7,782

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY SPECIES, 1988 AND 1989 (1) - Continued

Species	1988		1989		Aver. (1984-88)
Fish - Continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Snapper:					
Red	4,154	9,496	3,959	10,329	4,661
Other	6,796	11,319	6,755	12,332	4,831
Striped bass	407	517	285	477	1,014
Swordfish	12,818	42,703	11,768	38,321	11,468
Tilefish	4,555	7,222	2,542	4,246	5,995
Tuna:					
Albacore	12,303	10,598	5,591	4,279	15,874
Bigeye	4,150	14,421	4,547	15,587	2,201
Bluefin	3,745	17,305	4,749	22,893	8,302
Skipjack	24,395	13,796	14,042	7,701	29,505
Yellowfin	65,975	64,324	59,678	52,294	63,580
Unclassified	781	546	806	789	1,159
Total	*111,349*	*120,990*	*89,413*	*103,543*	*120,620*
Whiting	35,569	8,621	39,353	9,403	40,185
Other marine finfishes	220,194	71,360	256,973	75,286	-
Other freshwater finfishes	29,257	18,534	27,198	19,037	-
Total, fish	*5,905,561*	*2,023,230*	*7,145,154*	*1,726,247*	-
Shellfish et al.					
Clams:					
Hard	12,371	67,818	9,278	44,925	13,406
Ocean quahog	46,310	14,921	51,025	16,386	46,545
Soft	6,814	18,717	6,829	19,854	7,191
Surf	63,545	29,183	67,072	30,718	69,160
Other	2,700	4,142	3,962	23,060	2,691
Total	*131,740*	*134,781*	*138,166*	*134,943*	*138,992*
Crabs:					
Blue, hard	218,663	84,357	206,720	80,989	198,612
Dungeness	47,440	54,771	40,984	45,534	30,510
King	20,973	84,153	26,391	106,204	21,703
Snow (tanner)	146,326	137,052	164,643	160,082	100,929
Other	22,227	23,227	19,640	21,592	17,895
Total	*455,629*	*383,560*	*458,378*	*414,401*	*369,648*
Lobsters:					
American	48,643	145,236	52,926	149,115	46,075
Spiny	7,166	23,030	8,125	26,447	6,262
Oysters	31,892	78,498	29,926	83,585	40,941
Scallops					
Bay	569	3,414	274	1,678	989
Calico	11,868	12,462	6,580	5,928	14,696
Sea	30,557	128,243	33,757	132,594	23,369
Shrimp:					
New England	6,786	7,497	7,950	7,808	8,911
South Atlantic	24,244	51,667	33,703	53,561	23,484
Gulf	225,789	414,469	228,368	374,013	260,830
Pacific	74,054	32,401	81,493	32,189	52,613
Other	-	-	-	-	92
Total	*330,873*	*506,034*	*351,514*	*467,571*	*345,929*
Squid:					
Atlantic	46,739	16,220	66,829	25,592	35,260
Pacific	80,426	7,689	60,509	5,509	38,070
Other shellfish	110,890	57,862	110,942	64,830	-
Total, shellfish et al.	*1,286,992*	*1,497,029*	*1,317,926*	*1,512,193*	-
Grand total	*7,192,553*	*3,520,259*	*8,463,080*	*3,238,440*	-

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River Drainage area States are not available for 1988 and 1989.

Note:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels unloaded onto foreign vessels within the U.S. EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" table on page 6. Data do not include aquaculture products, except oysters and clams.

U.S. COMMERCIAL LANDINGS

DISPOSITION OF U.S. DOMESTIC LANDINGS, 1988 AND 1989

End Use	1988		1989	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen:				
For human food.....	3,605	50.1	5,010	59.2
For bait and animal food.....	208	2.9	199	2.4
Total.....	***3,813***	***53.0***	***5,209***	***61.6***
Canned:				
For human food.....	897	12.5	1,136	13.4
For bait and animal food.....	120	1.7	108	1.3
Total.....	***1,017***	***14.1***	***1,244***	***14.7***
Cured for human food....	86	1.2	58	0.7
Reduction to meal, oil, etc.....	2,276	31.6	1,952	23.1
Grand total.....	***7,192***	***100.0***	***8,463***	***100.0***

NOTE:--Data are preliminary. Table may not add to rounding.

DISPOSITION OF U.S. DOMESTIC LANDINGS, BY MONTH, 1989

Month	Landings for Human food		Landings for Industrial purposes (1)		Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds	Percent
January.....	414	6.7	30	1.3	444	5.2
February.....	441	7.1	19	0.8	460	5.4
March.....	538	8.7	21	0.9	559	6.6
April.....	525	8.5	147	6.5	672	7.9
May.....	448	7.2	205	9.1	653	7.7
June.....	532	8.6	244	10.8	776	9.2
July.....	767	12.4	367	16.2	1,134	13.4
August.....	744	12.0	561	24.8	1,305	15.4
September.....	588	9.5	367	16.2	955	11.3
October.....	445	7.2	171	7.6	616	7.3
November.....	407	6.6	57	2.5	464	5.5
December.....	355	5.7	70	3.1	425	5.0
Total.....	***6,204***	***100.0***	***2,259***	***100.0***	***8,463***	***100.0***

(1) Processed into meal, oil, solubles, and shell products, and used as bait and animal food.

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1980-1989 (1)

Year	Landings for Human Food		Landings for Industrial Purposes (2)		Total	
	Million pounds	Million dollars	Millions pounds	Million dollars	Millions pounds	Million dollars
1980.....	3,654	2,092	2,828	145	6,482	2,237
1981.....	3,547	2,277	2,430	111	5,977	2,388
1982.....	3,285	2,247	3,082	143	6,367	2,390
1983.....	3,238	2,203	*3,201	152	6,439	2,355
1984.....	3,320	2,206	3,118	144	6,438	2,350
1985.....	3,294	2,198	2,964	128	6,258	2,326
1986.....	3,393	2,641	2,638	122	6,031	2,763
1987.....	3,946	2,979	2,950	136	6,896	3,115
1988.....	4,588	3,362	2,604	158	7,192	3,520
1989.....	*6,204	3,111	2,259	127	*8,463	3,238

(1) Statistics on landings are shown in round weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats (excluding the shell). All data are preliminary. (2) Processed into meal, oil, solubles, and shell products, or used as bait or animal food.

*Record

NOTE:--Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams.

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY STATES, 1988 AND 1989 (1)

States	1988		1989		Record Landings	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
Alabama	22,296	39,709	25,444	38,293	1973	39,749
Alaska	2,639,250	1,339,424	4,088,780	1,223,230	1989	4,094,537
California	495,577	199,316	418,409	123,304	1936	1,760,193
Connecticut	9,133	17,444	8,588	18,309	1930	88,012
Delaware	5,536	3,161	6,898	3,453	1953	367,500
Florida	182,220	169,639	197,462	185,858	1938	241,443
Georgia	16,609	21,480	15,770	19,791	1927	47,607
Hawaii	21,131	39,749	24,397	47,109	1984	34,824
Illinois	268	330	238	304	-	(2)
Indiana	1,301	1,677	1,528	1,929	-	(2)
Louisiana	1,356,466	317,297	1,227,941	264,153	1984	1,931,027
Maine	157,281	123,933	151,119	132,522	1950	356,266
Maryland	79,739	44,083	84,920	52,050	1890	141,607
Massachusetts	286,476	274,030	268,861	272,847	1948	649,696
Michigan	15,965	9,566	14,215	9,900	1930	35,580
Minnesota	334	97	329	73	-	(2)
Mississippi	336,369	61,180	298,206	43,949	1984	476,997
New Hampshire	10,808	8,818	11,402	10,247	-	(2)
New Jersey	112,617	71,863	128,459	78,802	1956	540,060
New York	38,508	54,224	37,080	51,096	1880	335,000
North Carolina	191,281	75,823	164,476	70,582	1981	432,006
Ohio	3,438	1,062	3,389	1,344	1936	31,083
Oregon	148,601	97,695	170,052	78,846	1989	170,052
Pennsylvania	380	277	495	264	-	(2)
Rhode Island	106,208	69,422	125,041	75,004	1889	128,056
South Carolina	16,249	21,052	20,065	24,893	1965	26,611
Texas	96,039	175,738	96,421	170,118	1960	237,684
Virginia	650,770	104,334	692,794	100,014	1983	751,069
Washington	173,553	172,274	163,003	134,585	1941	197,253
Wisconsin	18,150	5,562	17,298	5,571	-	(2)
Total	*7,192,553*	*3,520,259*	*8,463,080*	*3,238,440*	-	-

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River Drainage Area States are not included.
(2) Not available.
NOTE:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels unloaded onto foreign vessels within the U.S. EEZ (joint venture). Therefore, they will not agree with "U.S. Commercial Landings" table on page 6. Data do not include aquaculture products, except oysters and clams.

U.S. DOMESTIC LANDINGS, BY REGIONS, 1988 AND 1989 (1)

Region	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
New England	569,906	493,647	565,011	508,929
Middle Atlantic	156,442	129,033	172,295	133,225
Chesapeake	730,509	148,417	777,714	152,064
South Atlantic	280,052	173,613	256,391	168,729
Gulf	1,937,477	708,305	1,789,394	648,908
Pacific Coast and Alaska	3,456,981	1,808,709	4,840,244	1,559,965
Great Lakes	40,055	18,786	37,634	19,511
Hawaii	21,131	39,749	24,397	47,109
Total	*7,192,553*	*3,520,259*	*8,463,080*	*3,238,440*

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River Drainage Area States are not included.
NOTE:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels unloaded onto foreign vessels within the U.S. EEZ (joint venture). Therefore, they will not agree with "U.S. Commercial Landings" table on page 6. Data do not include aquaculture products, except oysters and clams.

COMMERCIAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1987-89

Port	Quantity			Port	Value		
	1987	1988	1989		1987	1988	1989
	--Million pounds--				--Million dollars--		
Dutch Harbor-Unalaska, AK..	128.2	377.3	504.3	New Bedford, MA.....	143.7	140.9	141.0
Cameron, LA.....	672.4	438.9	352.7	Dutch Harbor-Unalaska, AK..	62.7	100.9	107.0
Pascagoula-Moss Point, MS..	391.6	292.0	282.1	Kodiak, AK.....	132.1	*166.3	100.2
Empire-Venice, LA.....	357.4	297.2	272.7	Petersburg, AK.....	36.9	58.5	61.4
Kodiak, AK.....	204.1	304.6	213.2	Kenai, AK.....	(1)	99.0	56.0
Dulac-Chauvin, LA.....	331.7	244.1	210.9	Brownsville-Port Isabel, TX	54.2	39.7	54.1
Intercoastal City, LA.....	314.3	209.7	207.2	Dulac-Chauvin, LA.....	65.6	56.5	50.0
Los Angeles, CA.....	203.1	232.0	177.6	Empire-Venice, LA.....	60.1	67.7	49.2
Petersburg, AK.....	42.4	50.4	113.5	Ketchikan, AK.....	22.8	43.5	45.6
Gloucester, MA.....	93.0	107.4	98.5	Cordova, AK.....	41.9	46.4	35.3
Beaufort-Morehead City, NC.	85.7	110.0	95.0	Portland, ME.....	35.8	30.4	34.4
Ketchikan, AK.....	27.6	28.3	91.6	Golden Meadow-Leeville, LA.	36.6	37.0	33.5
New Bedford, MA.....	78.7	90.3	90.4	Aransas Pass-Rockport, TX..	36.4	45.6	32.0
Morgan City-Berwick, LA....	27.0	43.3	68.1	Hampton Roads Area, VA.....	46.2	34.5	31.1
Cordova, AK.....	69.6	42.5	55.3	Cape May-Wildwood, NJ.....	30.5	28.4	30.8
Cape May-Wildwood, NJ.....	56.8	47.9	54.0	Gloucester, MA.....	34.0	30.8	30.0
Astoria, OR.....	46.6	44.2	51.0	Beaufort-Morehead City, NC.....	22.7	27.0	25.0
Port Hueneme-Oxnard-Ventura, CA.....	42.3	55.0	50.9	Bayou La Batre, AL.....	29.8	23.8	24.7
Portland, ME.....	43.8	43.9	49.0	Sitka, AK.....	33.6	37.4	24.2
Point Judith, RI.....	46.6	49.6	48.3	Port Arthur, TX.....	22.9	17.4	23.8
Newport, OR.....	35.9	38.5	44.4	Point Judith, RI.....	29.5	25.4	23.6
Bellingham, WA.....	47.5	35.3	40.6	Seward, AK.....	(1)	19.5	23.1
Crescent City, CA.....	23.1	36.0	35.7	Biloxi, MS.....	14.2	29.5	22.2
Kenai, AK.....	(1)	47.4	35.0	Bellingham, WA.....	27.4	30.1	21.3
Coos Bay-Charleston, OR....	29.6	33.0	34.9	Cameron, LA.....	31.9	33.2	20.5
Seward, AK.....	(1)	23.0	34.2	Los Angeles, CA.....	55.6	34.0	20.3
Sitka, AK.....	27.1	27.7	30.3	Astoria, OR.....	24.6	24.3	20.0
Westport, WA.....	26.2	34.8	30.2	Newport, OR.....	21.9	24.3	19.2
San Francisco Area, CA.....	27.0	25.0	29.2	Homer, AK.....	(1)	40.2	18.2
Wanchese-Stumpy Point, NC..	28.3	31.0	25.0	Morgan City-Berwick, LA....	11.0	16.7	17.8
Rockland, ME.....	38.7	40.6	24.8	Key West, FL.....	22.4	16.8	17.3
Ocean City, MD.....	22.5	21.1	24.6	Westport, WA.....	15.8	21.3	17.1
Golden Meadow-Leeville, LA.	27.4	30.1	24.5	Pascagoula-Moss Point, MS..	20.3	28.2	16.9
Hampton Roads Area, VA.....	29.6	20.0	24.5	Coos Bay-Charleston, OR....	19.1	21.8	16.1
Provincetown-Chatham, MA...	25.3	25.2	23.7	Wanchese-Stumpy Point, NC..	13.9	17.0	16.0
Ilwaco-Chinook, WA.....	18.8	23.2	23.3	Cape Canaveral, FL.....	21.7	24.3	15.8
Brownsville-Port Isabel, TX	13.4	13.8	22.7	Delcambre, LA.....	22.1	12.7	15.7
Fort Bragg, CA.....	25.9	31.0	21.7	Galveston, TX.....	11.4	21.4	15.1
Everett, WA.....	23.5	14.5	20.4	Seattle, WA.....	21.9	19.5	14.7
Homer, AK.....	(1)	32.1	20.3	Anacortes-La Conner, WA....	10.2	8.8	13.5
Point Pleasant, NJ.....	15.2	17.3	19.2	Fort Myers, FL.....	10.4	12.7	13.1
Eureka, CA.....	28.5	27.0	17.9	Provincetown-Chatham, MA...	12.7	11.6	12.9
Boston, MA.....	23.0	20.8	17.3	Boston, MA.....	16.9	14.5	12.8
Monterey, CA.....	16.1	14.0	16.0	Ilwaco-Chinook, WA.....	13.1	13.2	12.3
Anacortes-La Conner, WA....	10.9	9.4	15.8	Blaine, WA.....	15.2	11.2	12.0
Seattle, WA.....	22.2	17.5	15.6	Crescent City, CA.....	12.1	16.0	11.3
Blaine, WA.....	17.9	11.9	15.3	Yakutat, AK.....	(1)	14.0	11.2
Aransas Pass-Rockport, TX..	10.2	15.6	15.0	Freeport, TX.....	23.6	22.6	10.7
Bayou La Batre, AL.....	15.1	12.4	14.9	Grand Isle, LA.....	12.6	12.0	10.7
Biloxi, MS.....	38.2	42.3	12.6	Lafitte-Barataria, LA.....	19.2	16.0	10.6
Brookings, OR.....	6.0	7.8	12.3	San Francisco Area, CA.....	12.5	15.0	10.3
Yakutat, AK.....	(1)	8.9	11.9	Delacroix-Yscloskey, LA....	13.1	11.0	9.8
Port Arthur, TX.....	6.7	6.2	11.5	Bon Secour-Gulf Shores, AL.	13.0	12.5	9.7
Delcambre, LA.....	13.9	10.8	11.3	Intercoastal City, LA.....	13.4	14.7	9.5
Fort Myers, FL.....	8.3	10.2	10.9	Ocean City, MD.....	10.6	8.9	9.1
Grand Isle, LA.....	12.3	10.8	10.8	Fort Bragg, CA.....	12.5	21.0	9.0
Cape Canaveral, FL.....	14.6	16.4	10.5	Montauk, NY.....	15.9	14.7	8.5
Montauk, NY.....	14.7	13.2	9.6	Point Pleasant, NJ.....	6.7	7.4	8.4
Key West, FL.....	12.3	9.2	9.6	Shelton, WA.....	(1)	(1)	8.0
Delacroix-Yscloskey, LA.....	12.5	11.1	9.5	Port Hueneme-Oxnard-Ventura, CA.....	8.1	10.0	7.9

(1) Not available. *Record. Record quantity was 848.2 million lb landed in Los Angeles, California in 1960.

NOTE:--To avoid disclosure of private enterprise certain leading ports have not been included.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS 1989 (1)

Species	Distance caught off U.S. Shores				International Waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Alewives:								
Atlantic and Gulf.	4,169	508	-	-	-	-	4,169	508
Great Lakes. . . .	10,030	173	-	-	-	-	10,030	173
Anchovies.	1,469	320	11,920	2,376	-	-	13,389	2,696
Bluefish	6,470	1,437	3,959	808	-	-	10,429	2,245
Bonito	306	100	2,370	482	-	-	2,676	582
Butterfish	785	368	6,292	3,748	-	-	7,077	4,116
Cod:								
Atlantic	935	550	77,241	47,108	247	114	78,423	47,772
Pacific.	55,582	8,245	414,492	59,625	-	-	470,074	67,870
Croaker.	7,365	3,679	922	435	-	-	8,287	4,114
Cusk	4	1	2,052	971	2	2	2,058	974
Atlantic and Gulf:								
Blackback.	1,502	1,500	13,153	18,109	-	-	14,655	19,609
Fluke.	5,015	8,148	16,825	25,299	-	-	21,840	33,447
Yellowtail	357	435	11,259	12,917	678	559	12,294	13,911
Other.	1,031	985	16,093	19,016	3,082	2,711	20,206	22,712
Pacific.	81,226	13,031	478,705	51,300	-	-	559,931	64,331
*Total	*89,131*	*24,099*	*536,035*	*126,641*	*3,760*	*3,270*	*628,926*	*154,010*
Groupers	217	379	14,931	25,208	1	1	15,149	25,588
Haddock.	4	7	3,766	4,498	38	33	3,808	4,538
Hake:								
Pacific (whiting).	195	15	465,176	22,707	-	-	465,371	22,722
Red.	120	17	3,316	574	-	-	3,436	591
White.	44	10	11,220	4,403	22	10	11,286	4,423
Halibut.	27,697	31,046	47,453	54,046	18	53	75,168	85,145
Herring sea:								
Atlantic	30,615	1,686	86,542	4,868	-	-	117,157	6,554
Pacific.	119,346	24,391	-	-	-	-	119,346	24,391
Jack mackerel. . . .	-	-	28,422	1,927	-	-	28,422	1,927
Lingcod.	997	346	7,006	2,439	-	-	8,003	2,785
Mackerel:								
Atlantic	1,129	356	31,143	3,905	-	-	32,272	4,261
King	407	442	3,365	3,845	-	-	3,772	4,287
Pacific.	20	11	88,647	6,012	-	-	88,667	6,023
Spanish.	1,533	603	5,226	2,434	-	-	6,759	3,037

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS 1989 (1) - Continued

Species	Distance caught off U.S. Shores				International Waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Fish - Continued:	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Menhaden:								
Atlantic	735,856	32,663	50,909	915	-	-	786,765	33,578
Gulf	929,139	38,493	356,899	13,840	-	-	1,286,038	52,333
Total	*1,664,995*	*71,156*	*407,808*	*14,755*	-	-	*2,072,803*	*85,911*
Mullet	31,590	15,020	4	3	-	-	31,594	15,023
Ocean perch:								
Atlantic	3	2	1,389	917	-	-	1,392	919
Pacific	13,953	2,588	8,379	2,058	-	-	22,332	4,646
Pollock:								
Atlantic	42	19	23,189	9,897	18	6	23,249	9,922
Alaska	354,298	28,038	2,642,075	199,261	-	-	2,996,373	227,299
Rockfishes	27,282	8,757	106,341	33,581	-	-	133,623	42,338
Sablefish	11,059	8,989	86,531	64,283	-	-	97,590	73,272
Salmon, Pacific:								
Chinook or king	25,973	37,485	5,493	11,046	-	-	31,466	48,531
Chum or keta	68,685	30,078	-	-	-	-	68,685	30,078
Pink	367,888	132,777	10	7	-	-	367,898	132,784
Red or sockeye	274,051	346,442	-	-	-	-	274,051	346,442
Silver or coho	41,230	30,874	2,538	2,525	-	-	43,768	33,399
Total	*777,827*	*577,656*	*8,041*	*13,578*	-	-	*785,868*	*591,234*
Scup or porgy	1,503	1,335	8,079	6,385	-	-	9,582	7,720
Sea bass:								
Black	378	636	3,476	3,892	-	-	3,854	4,528
White	37	80	57	122	-	-	94	202
Sea trout:								
Gray	8,942	4,815	5,245	2,345	-	-	14,187	7,160
Spotted	3,431	3,380	7	6	-	-	3,438	3,386
White	205	107	94	29	-	-	299	136
Sharks:								
Dogfish	3,336	780	9,465	822	3	(3)	12,804	1,602
Other	1,495	661	15,637	8,670	42	33	17,174	9,364
Snapper:								
Red	153	539	3,776	9,745	30	45	3,959	10,329
Other	831	1,521	5,985	10,922	-	-	6,816	12,443
Striped bass	281	468	4	9	-	-	285	477
Swordfish	7	20	11,386	37,307	375	994	11,768	38,321
Tilefish	-	-	2,542	4,246	-	-	2,542	4,246

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS 1989 (1) - Continued

Species	Distance caught off U.S. Shores				International Waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Fish - Continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Tuna:								
Albacore	5	1	3,392	2,728	8,709	7,781	12,106	10,510
Bigeye	171	594	4,205	14,400	171	593	4,547	15,587
Bluefin	3	27	3,191	22,142	1,555	724	4,749	22,893
Skipjack	290	322	3,362	3,542	241,940	97,689	245,592	101,553
Yellowfin	360	543	20,354	35,116	252,942	121,951	273,656	157,610
Unclassified	89	20	710	763	14	16	813	799
Total	*918*	*1,507*	*35,214*	*78,691*	*505,331*	*228,754*	*541,463*	*308,952*
Whiting	800	189	38,553	9,214	-	-	39,353	9,403
Other marine finfishes	174,771	47,430	83,139	28,557	132	45	258,042	76,032
Other freshwater finfishes	27,198	19,037	-	-	-	-	27,198	19,037
Total fish	*3,463,905*	*893,519*	*5,357,889*	*918,311*	*510,042*	*233,404*	*9,331,836*	*2,045,234*
Shellfish et al.								
Clams:								
Hard	9,278	44,925	-	-	-	-	9,278	44,925
Ocean quahog	406	980	50,619	15,406	-	-	51,025	16,386
Soft	6,829	19,854	-	-	-	-	6,829	19,854
Surf	17,833	7,677	49,239	23,041	-	-	67,072	30,718
Other	3,962	23,060	-	-	-	-	3,962	23,060
Total	*38,308*	*96,496*	*99,858*	*38,447*	-	-	*138,166*	*134,943*
Crabs:								
Blue hard	206,714	80,988	6	1	-	-	206,720	80,989
Dungeness	31,574	35,182	9,410	10,352	-	-	40,984	45,534
King	13,413	53,932	12,978	52,272	-	-	26,391	106,204
Snow (tanner)	7,552	22,048	157,091	138,034	-	-	164,643	160,082
Other	7,086	6,652	12,554	14,940	-	-	19,640	21,592
Total	*266,339*	*198,802*	*192,039*	*215,599*	-	-	*458,378*	*414,401*
Lobsters:								
American	45,539	124,405	7,387	24,710	-	-	52,926	149,115
Spiny	1,753	6,135	6,372	20,312	-	-	8,125	26,447

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS 1989 (1) - Continued

Species	Distance caught off U.S. Shores				International Waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Shellfish et al.	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Oysters.	29,926	83,585	-	-	-	-	29,926	83,585
Scallops:								
Bay.	274	1,678	-	-	-	-	274	1,678
Calico	-	-	6,580	5,928	-	-	6,580	5,928
Sea.	1,943	6,725	31,814	125,869	-	-	33,757	132,594
Shrimp:								
New England. . . .	801	901	7,149	6,907	-	-	7,950	7,808
South Atlantic . .	22,715	42,286	10,988	11,275	-	-	33,703	53,561
Gulf	136,493	173,598	96,651	208,104	-	-	233,144	381,702
Pacific Coast. . .	16,443	7,136	65,050	25,053	-	-	81,493	32,189
Total	*176,452*	*223,921*	*179,838*	*251,339*	-	-	*356,290*	*475,260*
Squid:								
Atlantic	6,641	3,032	60,188	22,560	-	-	66,829	25,592
Pacific.	38,700	3,553	22,045	1,956	-	-	60,745	5,509
Other shellfish. . .	104,608	60,987	6,335	3,844	-	-	110,943	64,831
Total shellfish et al. . . .	*710,493*	*809,346*	*612,456*	*710,564*	-	-	*1,322,949*	*1,519,910*
Grand total, 1989	*4,174,398*	*1,702,865*	*5,970,345*	*1,628,875*	*510,042*	*233,404*	*10,654,785*	*3,565,144*
Grand total, 1988 (4)	*3,884,674*	*2,026,147*	*6,510,335*	*1,671,279*	*572,617*	*312,642*	*10,967,626*	*4,010,068*

(1) Landings are reported in round (live) weight for all items, except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance from shore for Texas landings data collected by Texas Parks and Wildlife Department.

(2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States.

(3) Less than $500.

(4) For individual species breakout see "Fisheries of the United States, 1988" pages 6-9.

NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, and catches by U.S.-flag vessels unloaded onto foreign vessels within the U.S. EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. Data do not include aquaculture products, except oysters and clams.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS 1989 (1)

Species	Distance caught off U.S. Shores				International Waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Fish	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Alewives:								
Atlantic and Gulf.	1,891	508	-	-	-	-	1,891	508
Great Lakes. . . .	4,550	173	-	-	-	-	4,550	173
Anchovies.	666	320	5,407	2,376	-	-	6,073	2,696
Bluefish	2,935	1,437	1,796	808	-	-	4,731	2,245
Bonito	139	100	1,075	482	-	-	1,214	582
Butterfish	356	368	2,854	3,748	-	-	3,210	4,116
Cod:								
Atlantic	424	550	35,036	47,108	112	114	35,572	47,772
Pacific.	25,212	8,245	188,012	59,625	-	-	213,224	67,870
Croaker.	3,341	3,679	418	435	-	-	3,759	4,114
Cusk	2	1	931	971	1	2	934	974
Atlantic and Gulf:								
Blackback.	681	1,500	5,966	18,109	-	-	6,647	19,609
Fluke.	2,275	8,148	7,632	25,299	-	-	9,907	33,447
Yellowtail	162	435	5,107	12,917	308	559	5,577	13,911
Other.	468	985	7,300	19,016	1,398	2,711	9,165	22,712
Pacific.	36,844	13,031	217,139	51,300	-	-	253,983	64,331
*Total	*40,430*	*24,099*	*243,144*	*126,641*	*1,706*	*3,270*	*285,279*	*154,010*
Groupers	98	379	6,773	25,208	(3)	1	6,872	25,588
Haddock.	2	7	1,708	4,498	17	33	1,727	4,538
Hake:								
Pacific (whiting).	88	15	211,002	22,707	-	-	211,091	22,722
Red.	54	17	1,504	574	-	-	1,559	591
White.	20	10	5,089	4,403	10	10	5,119	4,423
Halibut.	12,563	31,046	21,525	54,046	8	53	34,096	85,145
Herring sea:								
Atlantic	13,887	1,686	39,255	4,868	-	-	53,142	6,554
Pacific.	54,135	24,391	-	-	-	-	54,135	24,391
Jack mackerel. . . .	-	-	12,892	1,927	-	-	12,892	1,927
Lingcod.	452	346	3,178	2,439	-	-	3,630	2,785
Mackerel:								
Atlantic	512	356	14,126	3,905	-	-	14,638	4,261
King	185	442	1,526	3,845	-	-	1,711	4,287
Pacific.	9	11	40,210	6,012	-	-	40,219	6,023
Spanish.	695	603	2,370	2,434	-	-	3,066	3,037

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS 1989 (1) - Continued

Species	Distance caught off U.S. Shores				International Waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Fish - Continued:	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Menhaden:								
Atlantic	333,782	32,663	23,092	915	-	-	356,874	33,578
Gulf	421,455	38,493	161,888	13,840	-	-	583,343	52,333
Total	*755,237*	*71,156*	*184,980*	*14,755*	-	-	*940,217*	*85,911*
Mullet	14,329	15,020	-	-	-	-	14,331	15,023
Ocean perch:								
Atlantic	1	2	630	917	-	-	631	919
Pacific	6,329	2,588	3,801	2,058	-	-	10,130	4,646
Pollock:								
Atlantic	19	19	10,518	9,897	8	6	10,546	9,922
Alaska	160,709	28,038	1,198,437	199,261	-	-	1,359,146	227,299
Rockfishes	12,375	8,757	48,236	33,581	-	-	60,611	42,338
Sablefish	5,016	8,989	39,250	64,283	-	-	44,267	73,272
Salmon, Pacific:								
Chinook or king	11,781	37,485	2,492	11,046	-	-	14,273	48,531
Chum or keta	31,155	30,078	-	-	-	-	31,155	30,078
Pink	166,873	132,777	-	-	-	-	166,877	132,784
Red or sockeye	124,309	346,442	-	-	-	-	124,309	346,442
Silver or coho	18,702	30,874	1,151	2,525	-	-	19,853	33,399
Total	*352,820*	*577,656*	*3,647*	*13,578*	-	-	*356,467*	*591,234*
Scup or porgy	682	1,335	3,665	6,385	-	-	4,346	7,720
Sea bass:								
Black	171	636	1,577	3,892	-	-	1,748	4,528
White	17	80	26	122	-	-	43	202
Sea trout:								
Gray	4,056	4,815	2,379	2,345	-	-	6,435	7,160
Spotted	1,556	3,380	3	6	-	-	1,559	3,386
White	93	107	43	29	-	-	136	136
Sharks:								
Dogfish	1,513	780	4,293	822	1	(3)	5,808	1,602
Other	678	661	7,093	8,670	19	33	7,790	9,364
Snapper:								
Red	69	539	1,713	9,745	14	45	1,796	10,329
Other	377	1,521	2,715	10,922	-	-	3,092	12,443
Striped bass	127	468	2	9	-	-	129	477
Swordfish	3	20	5,165	37,307	170	994	5,338	38,321
Tilefish	-	-	1,153	4,246	-	-	1,153	4,246

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS 1989 (1) - Continued

Species	Distance caught off U.S. Shores				International Waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Fish - Continued	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Tuna:								
Albacore	2	1	1,539	2,728	3,950	7,781	5,491	10,510
Bigeye	78	594	1,907	14,400	78	593	2,063	15,587
Bluefin	1	27	1,447	22,142	705	724	2,154	22,893
Skipjack	132	322	1,525	3,542	109,743	97,689	111,400	101,553
Yellowfin	163	543	9,233	35,116	114,734	121,951	124,130	157,610
Unclassified	40	20	322	763	-	-	369	799
Total	*416*	*1,507*	*15,973*	*78,691*	*229,217*	*228,754*	*245,606*	*308,952*
Whiting	363	189	17,488	9,214	-	-	17,850	9,403
Other marine finfishes	79,276	47,430	37,712	28,557	60	45	117,047	76,032
Other freshwater finfishes	12,337	19,037	-	-	-	-	12,337	19,037
Total fish	*1,571,217*	*893,519*	*2,430,323*	*918,311*	*231,354*	*233,404*	*4,232,893*	*2,045,234*
Shellfish et al.								
Clams:								
Hard	4,208	44,925	-	-	-	-	4,208	44,925
Ocean quahog	184	980	22,961	15,406	-	-	23,145	16,386
Soft	3,098	19,854	-	-	-	-	3,098	19,854
Surf	8,089	7,677	22,335	23,041	-	-	30,424	30,718
Other	1,797	23,060	-	-	-	-	1,797	23,060
Total	*17,376*	*96,496*	*45,295*	*38,447*	-	-	*62,672*	*134,943*
Crabs:								
Blue hard	93,765	80,988	3	1	-	-	93,768	80,989
Dungeness	14,322	35,182	4,268	10,352	-	-	18,590	45,534
King	6,084	53,932	5,887	52,272	-	-	11,971	106,204
Snow (tanner)	3,426	22,048	71,256	138,034	-	-	74,682	160,082
Other	3,214	6,652	5,694	14,940	-	-	8,909	21,592
Total	*120,811*	*198,802*	*87,108*	*215,599*	-	-	*207,919*	*414,401*
Lobsters:								
American	20,656	124,405	3,351	24,710	-	-	24,007	149,115
Spiny	795	6,135	2,890	20,312	-	-	3,685	26,447

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS 1989 (1) - Continued

Species	Distance caught off U.S. Shores				International Waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Shellfish et al.	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Oysters.	13,574	83,585	-	-	-	-	13,574	83,585
Scallops:								
Bay.	124	1,678	-	-	-	-	124	1,678
Calico	-	-	2,985	5,928	-	-	2,985	5,928
Sea.	881	6,725	14,431	125,869	-	-	15,312	132,594
Shrimp:								
New England. . . .	363	901	3,243	6,907	-	-	3,606	7,808
South Atlantic . .	10,303	42,286	4,984	11,275	-	-	15,288	53,561
Gulf	61,913	173,598	43,841	208,104	-	-	105,753	381,702
Pacific Coast. . .	7,458	7,136	29,506	25,053	-	-	36,965	32,189
Total	*80,038*	*223,921*	*81,574*	*251,339*	-	-	*161,612*	*475,260*
Squid:								
Atlantic	3,012	3,032	27,301	22,560	-	-	30,313	25,592
Pacific.	17,554	3,553	10,000	1,956	-	-	27,554	5,509
Other shellfish. . .	47,450	60,987	2,874	3,844	-	-	50,323	64,831
Total shellfish et al. . . .	*322,278*	*809,346*	*277,808*	*710,564*	-	-	*600,086*	*1,519,910*
Grand total, 1989	*1,893,495*	*1,702,865*	*2,708,131*	*1,628,875*	*231,354*	*233,404*	*4,832,979*	*3,565,144*
Grand total, 1988 (4) . . .	*1,762,077*	*2,026,147*	*2,953,069*	*1,671,279*	*259,737*	*312,642*	*4,974,883*	*4,010,068*

(1) Landings are reported in round (live) weight for all items, except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance from shore for Texas landings data collected by Texas Parks and Wildlife Department.

(2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States.

(3) Less than 1 metric tons or $500.

(4) For individual species breakout see "Fisheries of the United States, 1988" pages 10-13.

NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, and catches by U.S.-flag vessels unloaded onto foreign vessels within the U.S. EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. Data do not include aquaculture products, except oysters and clams. Data may not add due to converting to metric tons.

U.S. COMMERCIAL LANDINGS

HISTORICAL FISHERY STATISTICS

SUMMARY OF AMERICAN LOBSTER LANDINGS, BY REGIONS, 1930-1989 (1)

Year	New England		Middle Atlantic		Chesapeake		Grand Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1930	12,357	3,217	1,559	369	-	-	13,916	3,586
1931	11,312	2,718	1,149	292	(2)	(2)	12,461	3,010
1932	10,279	1,913	878	166	(2)	(2)	11,157	2,079
1933	9,088	1,608	724	137	(2)	(2)	9,812	1,745
1934	(3)	(3)	(3)	(3)	(2)	(2)	(3)	(3)
1935	10,852	2,520	643	139	1	(2)	11,496	2,659
1936	(3)	(3)	(3)	(3)	(2)	(2)	(3)	(3)
1937	10,936	2,304	640	133	-	-	11,576	2,437
1938	11,408	2,143	574	102	2	(2)	11,984	2,245
1939	11,312	1,964	672	115	1	(2)	11,985	2,079
1940	11,165	2,001	594	130	2	(2)	11,761	2,131
1941	(3)	(3)	(3)	(3)	1	(2)	(3)	(3)
1942	11,792	2,740	507	112	1	(2)	12,300	2,852
1943	15,651	4,200	773	205	(3)	(3)	(3)	(3)
1944	17,203	4,202	725	228	1	(2)	17,929	4,430
1945	22,267	9,307	460	154	1	(2)	22,728	9,461
1946	(3)	(3)	(3)	(3)	1	(2)	(3)	(3)
1947	23,316	8,718	609	273	2	1	23,927	8,992
1948	20,226	8,396	759	331	2	1	20,987	8,728
1949	23,994	8,594	660	309	2	(2)	24,656	8,903
1950	22,559	8,108	635	236	4	1	23,198	8,345
1951	25,534	9,221	409	157	3	1	25,946	9,379
1952	24,323	10,301	706	254	3	1	25,032	10,556
1953	27,136	10,482	966	383	13	5	28,115	10,870
1954	26,433	10,131	1,035	352	13	3	27,481	10,486
1955	27,624	10,873	1,315	424	15	5	28,954	11,302
1956	25,171	11,452	1,340	452	9	4	26,520	11,908
1957	29,106	11,146	1,046	365	3	1	30,155	11,512
1958	25,873	12,761	1,347	455	7	2	27,227	13,218
1959	27,393	13,874	1,665	584	27	10	29,085	14,468
1960	29,260	13,582	1,876	656	32	13	31,168	14,251
1961	25,931	13,767	2,051	798	16	7	27,998	14,572
1962	28,286	14,410	1,186	532	25	11	29,497	14,953
1963	29,120	16,212	1,130	547	24	10	30,274	16,769
1964	29,318	19,020	1,608	822	32	14	30,958	19,856
1965	28,530	20,930	1,668	1,008	48	19	30,246	21,957
1966	28,007	21,118	1,494	1,127	40	21	29,541	22,266
1967	24,766	20,793	1,759	1,464	216	129	(4) 26,745	(4) 22,389
1968	30,034	23,206	2,378	2,158	116	75	(4) 32,558	(4) 25,452
1969	30,711	26,172	2,850	2,668	207	144	(4) 33,787	(4) 28,998
1970	30,413	29,704	3,483	3,586	251	169	(4) 34,152	(4) 33,464
1971	30,283	31,811	3,143	3,555	262	228	33,688	35,594
1972	28,864	34,769	2,475	3,689	905	1,054	32,244	39,512
1973	26,482	37,553	2,284	3,713	223	318	(4) 28,991	(4) 41,586
1974	26,284	39,358	1,948	3,367	311	569	28,543	43,294
1975	28,503	48,138	1,547	3,004	150	270	30,200	51,412
1976	29,957	48,765	1,265	2,629	261	517	31,483	51,911
1977	30,326	54,850	1,346	2,803	101	216	31,773	57,869
1978	13,619	61,292	1,538	3,398	57	126	(4) 15,214	(4) 64,816
1979	35,563	68,273	1,544	3,692	93	251	37,200	72,216
1980	35,849	72,686	1,287	3,208	79	224	37,215	76,118
1981	37,527	81,286	1,540	4,240	65	210	39,132	85,736
1982	40,954	93,585	2,059	5,643	70	218	43,083	99,446
1983	42,676	102,395	2,035	5,743	87	289	44,798	108,427
1984	43,091	115,175	2,340	6,969	116	390	45,547	122,534
1985	44,430	109,508	2,439	7,103	83	284	46,952	116,895
1986	43,027	111,375	2,639	8,162	59	200	45,725	119,737
1987	43,174	133,316	2,628	8,391	51	196	45,853	141,903
1988	45,165	133,578	3,402	11,339	76	319	48,643	145,236
1989	48,591	135,253	4,273	13,607	62	255	52,926	149,115

(1) Data for 1978-1989 are preliminary. (2) Less than 500 lb or $500.
(3) Data not available. (4) Includes landings from the South Atlantic Region.

U.S. COMMERCIAL LANDINGS

HISTORICAL FISHERY STATISTICS

SUMMARY OF SPINY LOBSTER LANDINGS, BY REGIONS, 1930-1989 (1)

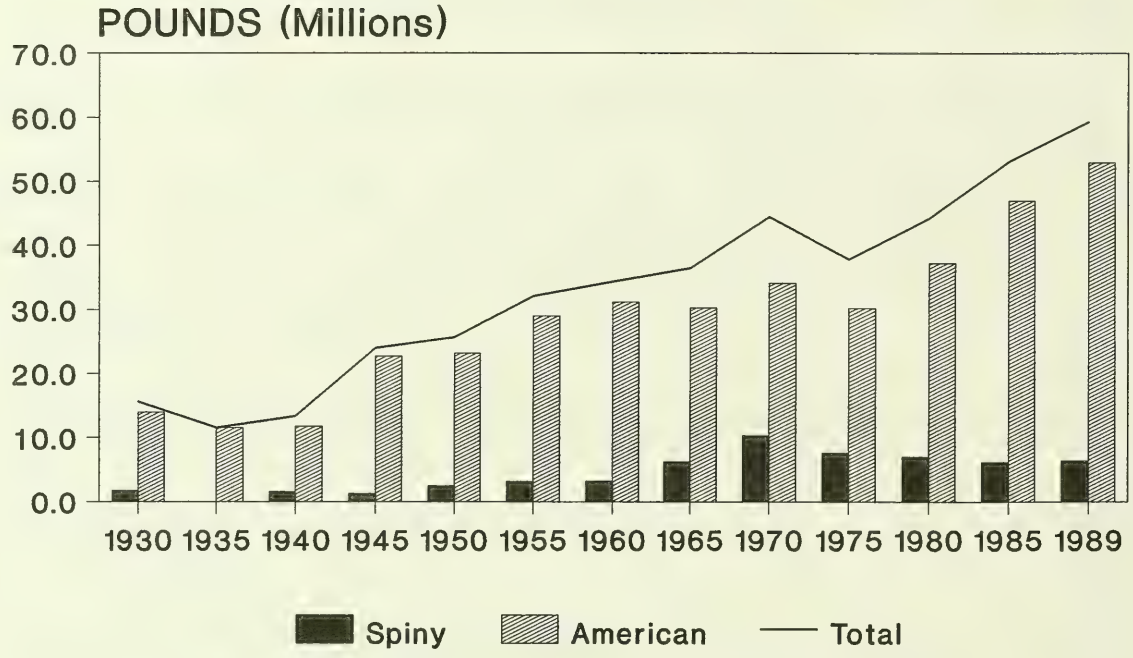
Year	South Atlantic		Gulf		Pacific (2)		Grand Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1930	108	12	180	14	1,394	263	1,682	289
1931	304	31	152	11	1,340	223	1,796	265
1932	347	26	98	6	1,018	142	1,463	174
1933	(3)	(3)	(3)	(3)	1,050	145	(3)	(3)
1934	183	10	168	7	1,183	180	1,534	197
1935	(3)	(3)	(3)	(3)	1,345	214	(3)	(3)
1936	211	14	116	6	1,335	148	1,662	168
1937	225	18	68	4	1,322	163	1,615	185
1938	265	20	63	3	1,198	179	1,526	202
1939	234	16	125	8	1,290	207	1,649	231
1940	256	19	208	12	1,097	169	1,561	200
1941	(3)	(3)	(3)	(3)	1,306	202	(3)	(3)
1942	(3)	(3)	(3)	(3)	169	41	(3)	(3)
1943	(3)	(3)	(3)	(3)	299	93	(3)	(3)
1944	(3)	(3)	(3)	(3)	513	136	(3)	(3)
1945	572	116	205	41	479	115	1,256	272
1946	(3)	(3)	(3)	(3)	692	234	(3)	(3)
1947	(3)	(3)	(3)	(3)	593	189	(3)	(3)
1948	(3)	(3)	(3)	(3)	563	229	(3)	(3)
1949	(3)	(3)	1,482	189	834	284	(3)	(3)
1950	932	168	628	113	933	296	2,493	577
1951	2,020	384	1,077	205	824	302	3,921	891
1952	656	164	957	239	807	337	2,420	740
1953	1,121	224	874	175	750	353	2,745	752
1954	1,223	269	724	159	902	409	2,849	837
1955	1,079	248	1,216	280	859	434	3,154	962
1956	799	228	2,314	597	736	385	3,849	1,210
1957	651	200	3,388	923	648	377	4,687	1,500
1958	623	184	2,332	653	633	389	3,588	1,226
1959	543	176	2,637	778	506	306	3,686	1,260
1960	719	281	2,129	820	351	236	3,199	1,337
1961	702	249	2,101	721	419	284	3,222	1,254
1962	704	274	2,435	928	517	354	3,656	1,556
1963	815	328	2,771	1,081	584	381	4,170	1,790
1964	786	351	2,845	1,212	447	309	4,078	1,872
1965	1,364	767	4,385	2,467	480	385	6,229	3,619
1966	1,686	810	3,664	1,659	489	409	5,839	2,878
1967	1,677	1,058	2,737	1,675	450	388	4,864	3,121
1968	3,238	2,241	3,921	2,828	312	293	7,471	5,362
1969	3,811	2,628	4,653	3,325	309	347	8,773	6,300
1970	3,051	1,851	7,064	4,207	225	268	10,340	6,326
1971	3,418	2,932	5,293	4,581	224	309	8,935	7,822
1972	6,433	6,413	5,379	5,746	398	622	12,210	12,781
1973	5,622	5,748	5,572	5,936	233	397	11,427	12,081
1974	4,147	5,068	6,736	8,326	191	365	11,074	13,759
1975	2,319	3,026	5,089	6,837	201	429	7,609	10,292
1976	987	1,734	4,358	6,852	293	663	5,638	9,249
1977	1,501	2,526	4,843	7,899	251	607	6,595	11,032
1978	891	1,691	4,711	10,253	44	99	5,646	12,043
1979	840	1,783	6,988	13,409	289	883	8,117	16,075
1980	1,000	2,239	5,696	11,845	330	1,072	7,026	15,156
1981	880	2,211	5,014	12,319	408	1,376	6,302	15,906
1982	857	2,209	5,640	13,357	479	1,716	6,976	17,282
1983	654	1,654	3,663	9,093	484	1,835	4,801	12,582
1984	205	540	6,047	15,143	441	1,750	6,693	17,433
1985	295	776	5,445	13,127	439	1,902	6,179	15,805
1986	621	1,716	4,385	11,517	422	1,915	5,428	15,148
1987	569	2,066	5,514	19,892	445	2,118	6,528	24,076
1988	383	1,038	4,992	14,475	591	3,117	5,966	18,630
1989	472	1,506	6,002	17,227	375	2,040	6,849	20,773

(1) Data for 1978-1989 are preliminary. (2) Data excludes Hawaii.

(3) Data not available.

NOTE:--Data does not match previously published totals.

HISTORICAL LOBSTER LANDINGS, BY SPECIES
1930 - 1989



NOTE:--Data does not include Hawaii.

JOINT VENTURE CATCHES BY U.S.-FLAG VESSELS, BY SPECIES, 1982-1989

Species	1982		1983		1984		1985	
	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Alewives	-	-	-	-	9	1	-	-
Atka mackerel	12,475	1,926	11,302	1,514	36,493	5,632	39,938	6,109
Cod	13,786	3,044	16,749	3,474	38,512	8,546	36,373	7,799
Flounders	26,649	3,997	36,958	5,287	54,372	7,605	179,663	24,833
Hake, Pacific (whiting)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Ocean perch	3	1	2,114	616	2,313	689	281	56
Mackerel, Atlantic	(1)	(1)	(1)	(1)	1,423	220	3,788	584
Pollock, Alaska	128,886	15,954	283,104	26,083	444,256	41,591	614,337	59,730
Rockfishes	30	7	311	94	346	105	70	14
Sablefish	124	4	363	141	871	396	94	30
Whiting	(1)	(1)	(1)	(1)	(1)	(1)	-	-
Squid:								
Illex	(1)	(1)	8,344	1,840	6,010	2,000	2,540	595
Loligo	(1)	(1)	2,332	1,646	760	395	1,082	599
Other fish (2)	72,691	11,468	73,371	10,555	79,192	11,862	33,060	3,971
Total	*254,644*	*36,401*	*434,948*	*51,250*	*664,557*	*79,042*	*911,226*	*104,320*

Species	1986		1987		1988		1989	
	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Alewives	(1)	(1)	22	(3)	-	-	-	-
Atka mackerel	31,991	4,828	30,030	4,775	19,619	3,571	-	-
Cod	66,015	14,449	59,521	15,334	111,526	30,429	44,424	12,495
Flounders	215,878	28,847	224,250	33,272	330,118	53,763	193,430	34,179
Hake, Pacific (whiting)	81,639	8,736	105,997	11,653	135,781	14,660	203,578	21,628
Ocean perch	273	72	556	173	-	-	-	-
Mackerel, Atlantic	(1)	(1)	8,012	1,058	5,685	760	(1)	(1)
Pollock, Alaska	904,111	95,294	1,057,315	134,302	826,564	116,102	287,755	40,378
Rockfishes	215	57	320	100	2,103	705	-	-
Sablefish	434	137	123	37	51	14	-	-
Whiting	65	9	5	(3)	-	-	-	-
Squid:								
Illex	(1)	(1)	3,140	628	(1)	(1)	-	-
Loligo	(1)	(1)	993	745	-	-	-	-
Other fish (2)	9,766	2,470	510	56	20,738	1,086	42,061	3,485
Total	*1,310,387*	*154,899*	*1,490,794*	*202,133*	*1,452,185*	*221,090*	*771,248*	*112,165*

(1) Confidential data. (2) Includes alewives, Atlantic mackerel, butterfish, Pacific and red hakes, menhaden, sea herring, whiting, squid, and other miscellaneous fish unless shown separately. (3) Less than $500.

U.S. MARINE RECREATIONAL FISHERIES

DATA COLLECTION. While data on commercial fisheries have been collected for many years, detailed statistical information on marine recreational fishing is also required to support a variety of fishery management and development purposes. These include the objectives of the Magnuson Fishery Conservation and Management Act, Public Law 94-265, as amended. However, the lack of a continuous or systematic collection of marine recreational fishery data had prevented the accomplishment of these goals. Therefore, NMFS began a new comprehensive Marine Recreational Fishery Statistical Survey (MRFSS) in 1979. Surveys have been conducted in the following areas and years:

Atlantic and Gulf, 1979 through 1989
Pacific, mid-1979 through 1989
Western Pacific, 1979 through 1981
Caribbean, 1979, 1981

Preliminary estimates of catch and trips from the MRFSS for the Atlantic, Gulf, and Pacific coasts for 1989 are presented in the following tables. Summary graphs for 1980-1989 catch and trips are also shown. The survey is being conducted in 1990 along the Atlantic and Gulf coasts.

These surveys consist of an intercept survey of fishermen in the field and an independent telephone survey of households. Each component survey provides certain information that is combined to produce estimates of recreational catch, fishing effort and participation. Estimates are generated by subregion or state, species, mode and area of fishing. In addition, information on catch rates and fish lengths and weights is obtained.

The MRFSS is only one of several NMFS efforts to obtain data on recreational fisheries. Specialized surveys on particular fisheries or to obtain socio-economic data are also conducted by NMFS.

DATA TABLES. The MRFSS catch data show the total number of fish caught for twenty frequently caught species groups in each survey area. Total number caught includes those fish brought ashore in whole form which were available for identification, weighing, and measuring as well as those not available for identification. This latter category includes those fish used for bait, discarded, filleted or released alive. Each fisheries group may contain one or more species, genera, or families.

Several tables show the distribution of total catch by subregion, fishing area and mode. The fishing areas are: ocean 3 miles or less from land, ocean more than 3 miles from land, and inland (sounds, river, bays). However, ocean data for the Gulf coast of Florida are reported as 10 miles or less from land and more than 10 miles from land.

The fishing modes are: shore (man-made structures and beach/bank from previous surveys), party/charter boat, and private/rental boat. However, in 1989 partyboats were not sampled by the MRFSS in the South Atlantic and Gulf subregions, so party/charter estimates include only charterboats in these areas.

The fishing trip tables indicate the estimated number of trips by coastal residents (generally residing within 25 miles of the coast), non-coastal residents of the subregion bordering saltwater, and non-residents. They also include the estimated number of trips by fishing mode.

The 1989 survey did not include Texas or the January and February period for South Carolina and the Atlantic coast states north of North Carolina. Pacific coast salmon fishing trips and catches were not included as a result of a cooperative arrangement with the Pacific coast states. These states had ongoing salmon data collection efforts which estimated a Pacific coast total salmon catch of approximately 763,300 fish in 1989. The data presented below will be finalized in separate marine recreational fishery reports to be published later this year.

PRELIMINARY 1989 MRFSS DATA. The U.S. marine recreational finfish catch in 1989 (excluding Alaska, Hawaii, and Pacific coast salmon) was an estimated 289.2 million fish. These fish weighed approximately 469.2 million pounds and were taken on an estimated 57.9 million fishing trips. The estimated number of U.S. marine recreational fishermen has been relatively stable over the last few years at 17 million.

The Atlantic and Gulf coasts accounted for approximately 86 percent of the total U.S. marine recreational finfish catch by number. Eighty-four percent of the estimated U.S. trips were made on the Atlantic and Gulf coasts.

Approximately 17 percent of the total U.S. catch by number was made in the Exclusive Economic Zone (EEZ), the principal area of NMFS management authority. However, for some species (e.g., red snapper) over 80 percent of the catch was made in the EEZ.

The private/rental boat mode accounted for 61 percent of the total U.S. marine recreational finfish catch in number. Shore mode catches were 25 percent of the total and party/charter catches (excluding South Atlantic and Gulf partyboats) were 14 percent of the total.

Atlantic and Gulf. In terms of number of fish, bluefish was the most frequently caught species on the Atlantic and Gulf coasts in 1989. Other frequently caught species in 1989 were spotted seatrout, spot and black sea bass. Top-ranked species in each subregion in 1989 were scup in the North Atlantic, bluefish in the Mid-Atlantic, spot in the South Atlantic, and spotted seatrout in the Gulf of Mexico. The Gulf (40 percent) and Mid-Atlantic (30 percent) subregions accounted for the highest numbers of Atlantic and Gulf coast fishes.

The inland, ocean 3 miles or less from shore, and ocean 10 miles or less from shore areas accounted for approximately 83 percent of the Atlantic and Gulf coasts catch in number. The remaining 17 percent of the catch in number was from the EEZ.

Sixty-four percent of the Atlantic and Gulf coast catch was taken in the private/rental boat mode in 1989. However, other modes were important for particular species such as king mackerel from the charter boat mode and kingfishes from the shore mode.

Coastal residents accounted for 73 percent of the Atlantic and Gulf trips made in 1989. Non-residents accounted for an additional 23 percent of the trips. Total trips in the South Atlantic exceeded all other subregions. This distribution of trips was similar to previous years.

Pacific. The catch in number of Pacific mackerel was the highest of any species on the Pacific coast in 1989. Top-ranked species groups in each subregion were Pacific mackerel in Southern California, rockfishes in Northern California, and surf smelt in Oregon and Washington. Southern California accounted for 56 percent of the Pacific coast catch in number.

The ocean 3 miles or less from shore area had the highest catch in number (57 percent) on the Pacific coast in 1989. The Pacific coast portion of the catch in the ocean more than 3 miles from shore (13 percent) was similar to the 17 percent for the Atlantic and Gulf coasts EEZ.

The overall catch among fishing modes was more evenly distributed on the Pacific coast than on the Atlantic and Gulf coasts. Percentage catches in number of fish were 44 percent for private/rental boats, 33 percent for shore, and 23 percent for party/charter boats.

The percentage of trips by coastal residents (90 percent) was higher on the Pacific coast than the Atlantic and Gulf coasts (73 percent). Forty-nine percent of the Pacific coast trips in 1989 were in the Southern California subregion. Considering that an additional 26 percent of the trips were made in the Northern California subregion, 75 percent of the non-salmon Pacific coast trips in 1989 were made in California.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND SUBREGION: ATLANTIC AND GULF COASTS, JANUARY 1989 - DECEMBER 1989

Species group	North Atlantic	Mid-Atlantic	South Atlantic	Gulf of Mexico	Total
	Thousands				
Herrings	377	256	964	12,316	13,913
Saltwater catfishes	*	-	1,545	8,876	10,449
Black sea bass	161	8,206	2,015	4,744	15,125
Bluefish	3,117	12,685	3,246	719	19,768
Red snapper	*	*	199	874	1,073
Scup	7,920	4,823	-	*	12,754
Pinfish	*	74	3,743	6,784	10,601
Sheepshead	*	-	701	2,564	3,270
Spotted seatrout	*	366	1,325	16,334	18,025
Weakfish	*	1,595	352	*	1,947
Sand seatrout	*	*	*	2,772	2,772
Spot	*	10,474	6,239	46	16,759
Kingfishes	-	78	1,847	944	2,871
Atlantic croaker	*	4,621	3,458	2,283	10,362
Red drum	*	-	527	3,182	3,738
Mullets	*	-	3,116	1,874	5,009
King mackerel	*	-	392	410	813
Summer flounder	187	2,244	390	*	2,822
Winter flounder	4,453	4,068	*	*	8,521
Other fishes	12,786	24,999	14,758	34,737	87,279
Total	*29,003*	*74,581*	*44,828*	*99,459*	*247,871*

NOTE:--A dash (-) denotes less than thirty thousand. However the number is included in row and column totals. An asterisk (*) denotes none reported. Figures for the Gulf of Mexico do not include the recreational catch for Texas. Figures for the South Atlantic and Gulf of Mexico do not include catches for partyboats. Row and column totals may not add due to rounding.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND SUBREGION: PACIFIC COAST, JANUARY 1989 - DECEMBER 1989

Species group	Southern California	Northern California	Oregon	Washington	Total
	Thousands				
Pacific herring	-	-	172	865	1,039
Surf smelt	-	389	624	2,428	3,442
Smelts, other	-	*	-	-	-
Walleye pollock	*	*	*	-	-
Jacksmelt	213	506	-	*	719
Kelp bass	1,489	-	*	*	1,491
Barred sand bass	2,285	-	*	*	2,285
White croaker	2,361	628	*	*	2,989
Queenfish	248	*	*	*	248
Walleye surfperch	49	114	-	*	191
Redtail surfperch	-	-	-	*	49
Barred surfperch	118	36	*	*	154
Pacific bonito	1,002	*	*	*	1,002
Pacific mackerel	4,587	-	*	*	4,596
Black rockfish	-	378	462	-	880
Blue rockfish	227	568	115	-	912
Boccacio	307	70	-	*	377
Olive rockfish	85	54	*	*	139
Rockfishes, other	2,099	2,201	135	1,230	5,665
Other fishes	7,916	3,519	1,467	2,177	15,079
Total	*23,027*	*8,494*	*3,036*	*6,735*	*41,292*

NOTE:--A dash (-) denotes less than thirty thousand. However, the number is included in row and column totals. An asterisk (*) denotes none reported. Figures do not include salmon catches estimated by state recreational surveys. Row and column totals may not add due to rounding.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND AREA OF FISHING: ATLANTIC AND GULF COASTS, JANUARY 1989 - DECEMBER 1989

Species group	Ocean				Inland	All areas
	3 Mi or less	Over 3 Mi	10 Mi or less	Over 10 Mi		
	Thousands					
Herrings	709	122	4,708	96	8,278	13,913
Saltwater catfishes	1,590	296	1,846	190	6,526	10,449
Black sea bass	2,165	5,359	2,146	2,059	3,396	15,125
Bluefish	6,208	3,693	255	70	9,542	19,768
Red snapper	58	662	93	209	51	1,073
Scup	3,216	902	*	*	8,636	12,754
Pinfish	892	197	3,905	409	5,197	10,601
Sheepshead	407	93	831	-	1,935	3,270
Spotted seatrout	1,710	623	4,797	376	10,520	18,025
Weakfish	471	99	*	*	1,378	1,947
Sand seatrout	382	45	458	-	1,884	2,772
Spot	5,244	296	*	*	11,217	16,759
Kingfishes	1,175	-	474	41	1,169	2,871
Atlantic croaker	2,078	430	217	-	7,633	10,362
Red drum	512	57	517	58	2,594	3,738
Mullets	766	46	465	*	3,731	5,009
King mackerel	119	325	316	50	-	813
Summer flounder	1,230	121	*	*	1,470	2,822
Winter flounder	1,548	61	*	*	6,913	8,521
Other fishes	14,115	15,228	15,113	10,405	32,417	87,279
Total	*44,595*	*28,667*	*36,141*	*13,974*	*124,490*	*247,871*

Note:--"Ocean 0-10 mi or less" and "ocean over 10 mi " refers only to the Florida Gulf coast where state jurisdiction extends to three marine leagues, approximately ten nautical miles. The total ocean estimate is additive across the four areas. A dash (-) denotes less than thirty thousand. However the number is included in row and column totals. An asterisk (*) denotes none reported. Row and column totals may not add due to rounding.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND AREA OF FISHING: PACIFIC COAST, JANUARY 1989 - DECEMBER 1989

Species group	Ocean		Inland	All areas
	3 Mi or less	More than 3 Mi		
	Thousands			
Pacific herring	-	*	1,036	1,039
Surf smelt	395	*	3,048	3,442
Smelts, other	-	*	-	-
Walleye pollock	*	*	-	-
Jacksmelt	249	*	470	719
Kelp bass	1,115	371	-	1,491
Barred sand bass	2,088	190	-	2,285
White croaker	2,180	244	565	2,989
Queenfish	248	*	*	248
Walleye surfperch	116	*	75	191
Redtail surfperch	33	*	-	49
Barred surfperch	147	*	-	154
Pacific bonito	737	249	-	1,002
Pacific mackerel	3,925	647	-	4,596
Black rockfish	703	95	82	880
Blue rockfish	674	197	40	912
Boccacio	192	185	*	377
Olive rockfish	95	44	-	139
Rockfishes, other	2,636	1,946	1,082	5,665
Other fishes	8,108	1,393	5,578	15,079
Total	*23,664*	*5,561*	*12,067*	*41,292*

NOTE:--A dash (-) denotes less than thirty thousand. However, the number is included in row and column totals. An asterisk (*) denotes none reported. Figures do not include salmon catches estimated by state recreational surveys.

U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND FISHING MODE: ATLANTIC AND GULF COASTS, JANUARY 1989 - DECEMBER 1989

Species group	Shore	Party/ charter boats	Private/ rental boats	All modes
	Thousands			
Herrings	7,022	207	6,684	13,913
Saltwater catfishes	2,237	204	8,008	10,449
Black sea bass	632	4,303	10,190	15,125
Bluefish	7,596	3,557	8,615	19,768
Red snapper	66	379	628	1,073
Scup	970	2,399	9,384	12,754
Pinfish	5,313	42	5,246	10,601
Sheepshead	936	265	2,069	3,270
Spotted seatrout	751	1,191	16,083	18,025
Weakfish	115	171	1,661	1,947
Sand seatrout	294	172	2,307	2,772
Spot	5,692	1,228	9,839	16,759
Kingfishes	1,451	40	1,380	2,871
Atlantic croaker	2,321	253	7,788	10,362
Red drum	472	267	2,999	3,738
Mullets	3,574	-	1,413	5,009
King mackerel	128	247	438	813
Summer flounder	341	285	2,196	2,822
Winter flounder	1,720	690	6,111	8,521
Other fishes	18,272	13,995	55,012	87,279
Total	*59,904*	*29,916*	*158,051*	*247,871*

Note:--A dash (-) denotes less than thirty thousand. However the number is included in row and column totals. An asterisk (*) denotes none reported.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND FISHING MODE: PACIFIC COAST, JANUARY 1989 - DECEMBER 1989

Species group	Shore	Party/ charter boats	Private/ rental boats	All modes
	Thousands			
Pacific herring	591	-	447	1,039
Surf smelt	3,436	*	-	3,442
Smelts, other	-	*	-	-
Walleye pollock	*	*	-	-
Jacksmelt	688	-	-	719
Kelp bass	115	708	668	1,491
Barred sand bass	40	1,023	1,222	2,285
White croaker	933	210	1,846	2,989
Queenfish	245	*	-	248
Walleye surfperch	173	*	-	191
Redtail surfperch	44	*	-	49
Barred surfperch	148	*	-	154
Pacific bonito	107	334	560	1,002
Pacific mackerel	1,720	1,002	1,875	4,596
Black rockfish	-	395	456	880
Blue rockfish	-	402	484	912
Boccacio	91	252	34	377
Olive rockfish	-	105	32	139
Rockfishes, other	151	2,737	2,776	5,665
Other fishes	5,042	2,151	7,885	15,079
Total	*13,603*	*9,328*	*18,361*	*41,292*

NOTE:--A dash (-) denotes less than thirty thousand. However, the number is included in row and column totals. An asterisk (*) denotes none reported. Figures do not include salmon catches estimated by state recreational surveys.

ESTIMATED NUMBER OF FISHING TRIPS BY MARINE RECREATIONAL FISHERMEN BY SUBREGION AND AREA OF RESIDENCE - ATLANTIC, GULF AND PACIFIC COASTS, JANUARY 1989 - DECEMBER 1989

Subregion	Trips by coastal residents	Trips by non-coastal residents	Non-resident trips	All trips
	Thousands			
North Atlantic.....	4,133	353	1,321	5,808
Mid-Atlantic.....	10,411	334	2,801	13,545
South Atlantic.....	10,963	1,124	3,382	15,469
Gulf of Mexico (1).....	9,843	378	3,454	13,676
Total (2).....	***35,350***	***2,190***	***10,958***	***48,498***
Southern California....	4,272	55	319	4,645
Northern California....	2,180	148	82	2,410
Oregon.....	702	32	125	859
Washington.....	1,391	52	89	1,532
Total (3).....	***8,545***	***286***	***615***	***9,446***
Grand Total.....	***43,895***	***2,476***	***11,573***	***57,944***

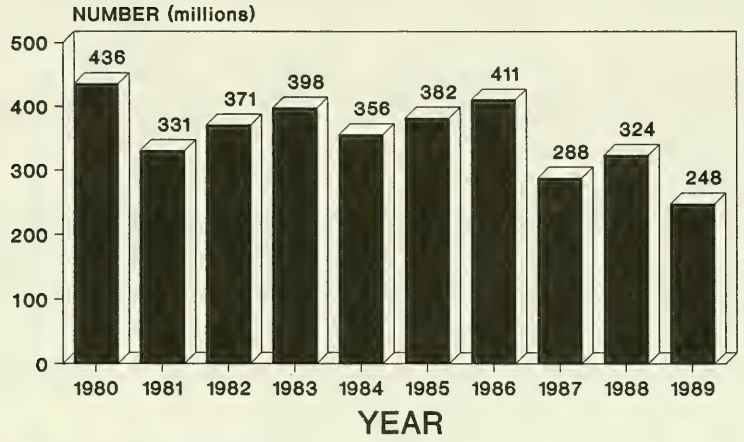
(1) Excludes Texas data.
(2) Excludes January/February trips from Maine thru Virginia and South Carolina and partyboat trips from the South Atlantic and Gulf subregions.
(3) Excludes Pacific Coast salmon fishing trips.
NOTE:--Row and column totals may not add due to rounding.

ESTIMATED NUMBER OF FISHING TRIPS BY MARINE RECREATIONAL FISHERMEN BY SUBREGION AND MODE OF FISHING - ATLANTIC, GULF AND PACIFIC COASTS, JANUARY 1989 - DECEMBER 1989

Subregion	Shore	Party/ charter boat	Private/ rental boat	All modes
	Thousands			
North Atlantic.....	1,806	726	3,276	5,808
Mid-Atlantic.....	4,015	2,011	7,520	13,545
South Atlantic.....	8,192	565	6,712	15,469
Gulf of Mexico (1).....	5,296	569	7,811	13,676
Total (2).....	***19,309***	***3,871***	***25,319***	***48,498***
Southern California....	1,852	1,134	1,660	4,645
Northern California....	1,369	218	823	2,410
Oregon.....	354	114	391	859
Washington.....	440	117	974	1,532
Total (3).....	***4,015***	***1,583***	***3,848***	***9,446***
Grand Total.....	***23,324***	***5,454***	***29,167***	***57,944***

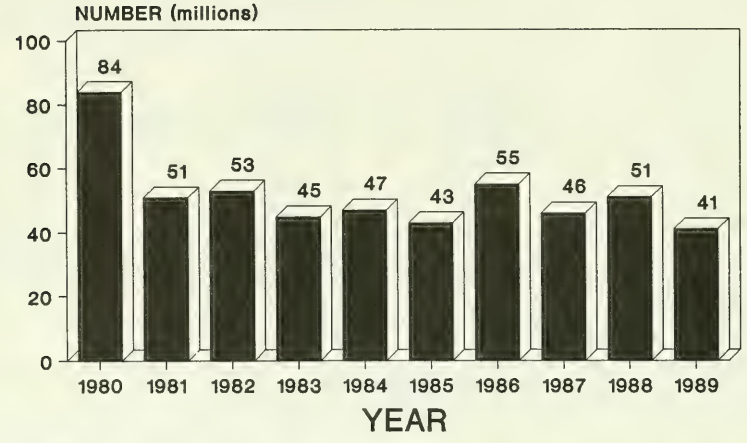
(1) Excludes Texas data.
(2) Excludes January/February trips from Maine thru Virginia and South Carolina and partyboat trips from the South Atlantic and Gulf subregions.
(3) Excludes Pacific Coast salmon fishing trips.
NOTE:--Row and column totals may not add due to rounding.

MARINE RECREATIONAL FISHERIES CATCH
ATLANTIC AND GULF COASTS
1980 - 1989



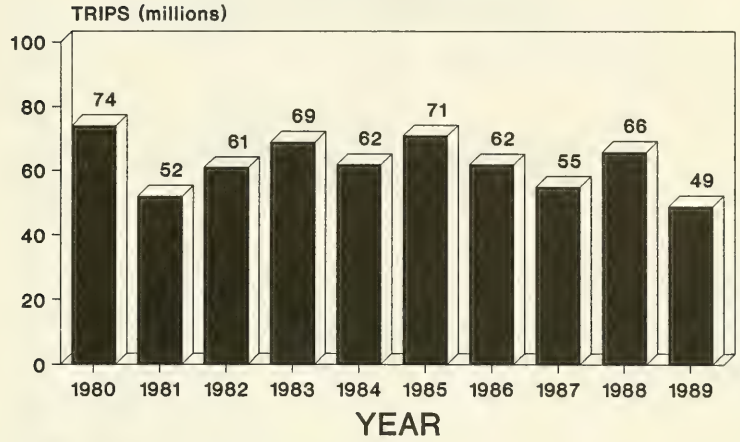
Note: 1989 data are preliminary.

MARINE RECREATIONAL FISHERIES CATCH
PACIFIC COAST
1980 - 1989



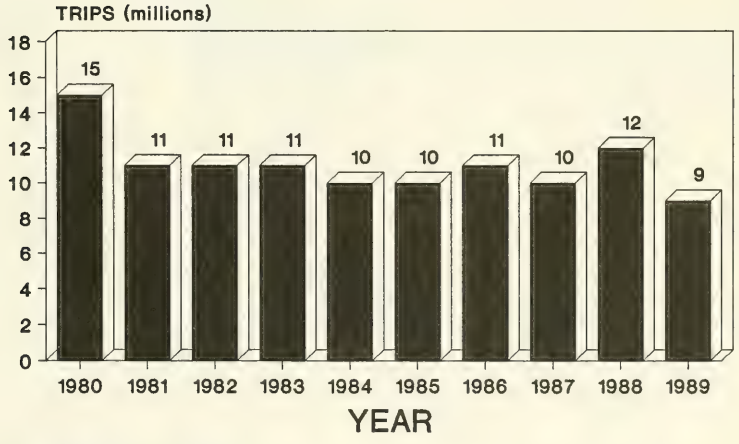
Note: 1989 data are preliminary.

MARINE RECREATIONAL FISHING TRIPS
ATLANTIC AND GULF COASTS
1980 - 1989



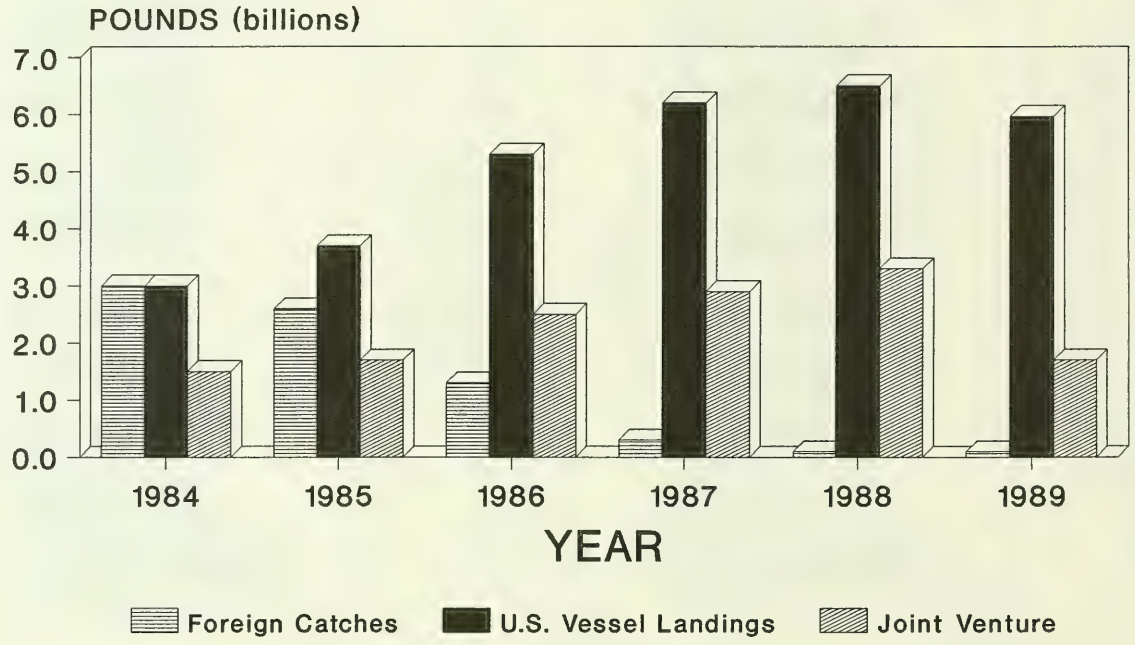
Note: 1989 data are preliminary.

MARINE RECREATIONAL FISHING TRIPS
PACIFIC COAST
1980 - 1989



Note: 1989 data are preliminary.

COMMERCIAL CATCHES IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ) 1984 - 1989



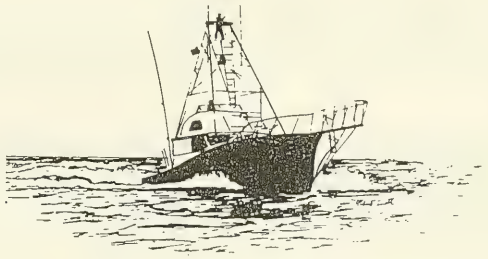
FOREIGN CATCH

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ), BY COUNTRY, 1988 AND 1989

Country	North Atlantic (1)	Washington, Oregon, and California	Alaska			Grand total
			Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Total Alaska	
	Metric tons, round weight					
1989:						
European Economic Community, Netherlands.	(2)	-	-	-	-	(2)
Other:						
German Democratic Republic	18,008.8	-	-	-	-	18,008.8
Poland	7,603.5	-	-	-	-	7,603.5
USSR	11,489.4	-	-	122.0	122.0	11,611.4
Grand Total	***37,101.7***	-	-	***122.0***	***122.0***	***37,223.7***
1988:						
European Economic Community, Netherlands.	12,381.3	-	-	-	-	12,381.3
Other:						
German Democratic Republic	21,104.5	-	-	-	-	21,104.5
Poland	9,768.2	18,338.2	-	-	-	28,106.4
Grand Total	***43,254.0***	***18,338.2***	-	-	-	***61,592.2***

(1) Cape Hatteras, North Carolina, northward. (2) Included with USSR catch.

Note:--Excludes tunas and prohibited species. For further information see text on page iv FOREIGN CATCH IN U.S. EEZ. Catches are for calendar year only. Some fishing years overlap 2 calendar years.



U.S. EXCLUSIVE ECONOMIC ZONE

FOREIGN CATCH

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ), BY SPECIES AND AREA, 1988 AND 1989

Species	North Atlantic (1)	Washington, Oregon, and California	Alaska			Grand total
			Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Total Alaska	
	Metric tons, round weight					
1989:						
Butterfish	0.9	-	-	-	-	0.9
Hake:						
Atlantic:						
Red	(2)	-	-	-	-	(2)
Silver (whiting)	18.3	-	-	-	-	18.3
Herrings, river (alewives)	76.2	-	-	-	-	76.2
Mackerel, Atlantic	36,823.0	-	-	-	-	36,823.0
Other finfish	179.8	-	-	-	-	179.8
Total fish	*37,098.2*	-	-	-	-	*37,098.2*
Snails (meats)	-	-	-	122.0	122.0	122.0
Squid, Atlantic:						
Short-finned	(2)	-	-	-	-	(2)
Long-finned	3.5	-	-	-	-	3.5
Total shellfish	*3.5*	-	-	*122.0*	*122.0*	*125.5*
Grand total	*37,101.7*	-	-	*122.0*	*122.0*	*37,223.7*
1988:						
Butterfish	(2)	-	-	-	-	(2)
Flounders, Pacific (flatfish)	-	2.5	-	-	-	2.5
Hake:						
Atlantic:						
Red	(2)	-	-	-	-	(2)
Silver (whiting)	4.5	-	-	-	-	4.5
Pacific (whiting)	-	18,041.0	-	-	-	18,041.0
Herrings, river (alewives)	74.0	-	-	-	-	74.0
Jack mackerel	-	48.5	-	-	-	48.5
Mackerel, Atlantic	42,878.7	-	-	-	-	42,878.7
Ocean perch, Pacific	-	2.5	-	-	-	2.5
Rockfishes	-	149.1	-	-	-	149.1
Sablefish	-	26.9	-	-	-	26.9
Other finfish	293.4	67.7	-	-	-	361.1
Total fish	*43,250.6*	*18,338.2*	-	-	-	*61,588.8*
Squid, Atlantic:						
Short-finned	(2)	-	-	-	-	(2)
Long-finned	3.4	-	-	-	-	3.4
Total shellfish	*3.4*	-	-	-	-	*3.4*
Grand total	*43,254.0*	*18,338.2*	-	-	-	*61,592.2*

(1) Cape Hatteras, North Carolina, northward. (2) Included with other finfish.

Note:--Excludes tunas and prohibited species. For further information see text on page iv FOREIGN CATCH IN U.S. EEZ. Catches are for calendar year only. Some fishing years overlap 2 calendar years.

FOREIGN CATCH

NORTH ATLANTIC: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1987-89

Country and species	1987	1988	1989
	Metric tons, round weight		
European Economic Community:			
Italy:			
Hake, silver (whiting)	3.1	-	-
Mackerel, Atlantic	15.1	-	-
Other finfish	14.7	-	-
Squid, long-finned	0.3	-	-
Total	*33.2*	-	-
Netherlands:			
Butterfish	(1)	-	-
Hake, silver (whiting)	(1)	-	(2)
Herring, river (alewives)	55.1	5.3	(2)
Mackerel, Atlantic	10,789.7	12,347.3	(2)
Other finfish	83.6	27.5	(2)
Squid: Short-finned	-	-	(2)
Long-finned	(1)	1.2	(2)
Total	*10,928.4*	*12,381.3*	*(2)*
Total, European Economic Community	*10,961.6*	*12,381.3*	*(2)*
German Democratic Republic:			
Butterfish	(1)	(1)	0.9
Hake:			
Red	-	(1)	-
Silver (whiting)	(1)	3.8	7.2
Herring, river (alewives)	26.4	28.3	22.2
Mackerel, Atlantic	18,488.9	20,909.9	17,909.8
Other finfish	38.0	161.1	67.1
Squid: Short-finned	-	-	(1)
Long-finned	(1)	1.4	1.6
Total	*18,553.3*	*21,104.5*	*18,008.8*
Poland:			
Butterfish	-	(1)	(1)
Hake: Red	-	-	(1)
Silver (whiting)	-	0.7	11.1
Herring, river (alewives)	-	40.4	28.0
Mackerel, Atlantic	-	9,621.5	7,499.1
Other finfish	-	104.8	63.4
Squid, Long-finned	-	0.8	1.9
Total	-	*9,768.2*	*7,603.5*
USSR:			
Hake, silver (whiting)	-	-	(1)
Herring, river (alewives)	-	-	26.0
Mackerel, Atlantic	-	-	11,414.1
Other finfish	-	-	49.3
Squid:			
Short-finned	-	-	(1)
Long-finned	-	-	(1)
Total	-	-	*11,489.4*
Grand total	*29,514.9*	*43,254.0*	*37,101.7*

(1) Included with other finfish. (2) Included with USSR catch.

Note:--Excludes tunas and prohibited species. For further information see text on page iv FOREIGN CATCH IN U.S. EEZ. Catches are for calendar year only. Some fishing years overlap 2 calendar years.

U.S. EXCLUSIVE ECONOMIC ZONE

FOREIGN CATCH

WASHINGTON, OREGON, AND CALIFORNIA: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1987-89

Country and species	1987	1988	1989
	Metric tons, round weight		
China:			
Hake, Pacific (whiting)	4.9	-	-
Jack mackerel	0.1	-	-
Total	*5.0*	-	-
Poland:			
Flounders (flatfish)	1.0	2.5	-
Hake, Pacific (whiting)	48,277.6	18,041.0	-
Jack mackerel	308.7	48.5	-
Ocean perch, Pacific	3.3	2.5	-
Rockfishes	202.4	149.1	-
Sablefish	29.7	26.9	-
Other finfishes	152.7	67.7	-
Total	*48,975.4*	*18,338.2*	-
Republic of Korea:			
Flounders (flatfish)	0.6	-	-
Hake, Pacific (whiting)	1,373.2	-	-
Jack mackerel	11.8	-	-
Rockfishes	16.4	-	-
Other finfishes	10.7	-	-
Total	*1,412.7*	-	-
Grand total	*50,393.1*	*18,338.2*	-

Note:--Excludes tunas and prohibited species. Catches are for calendar year only.

EASTERN BERING SEA AND ALEUTIAN ISLANDS: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1987-89

Country and species	1987	1988	1989
	Metric tons, round weight		
Japan:			
Atka mackerel	0.3	-	-
Cod, Pacific	54,145.6	-	-
Flounders (1)	6,407.6	-	-
Ocean perch, Pacific	5.1	-	-
Pollock, Alaska	3,283.2	-	-
Rockfishes	7.3	-	-
Sablefish	32.7	-	-
Other finfish	2,578.6	-	-
Snails (meats)	881.6	-	-
Squid, unclassified	94.5	-	-
Total	*67,436.5*	-	-
Republic of Korea:			
Atka mackerel	-	-	-
Cod, Pacific	228.2	-	-
Flounders (1)	1,022.2	-	-
Ocean perch, Pacific	0.1	-	-
Pollock, Alaska	312.7	-	-
Rockfishes	-	-	-
Sablefish	0.1	-	-
Other finfish	51.1	-	-
Squid, unclassified	-	-	-
Total	*1,614.4*	-	-
USSR, Snail (meats)	-	-	122.0
Grand total	*69,050.9*	-	*122.0*

(1) May include yellowfin sole.
Note:--Excludes tunas and prohibited species. Catches are for calendar year only.

U.S. AND WORLD COMMERCIAL FISH CATCHES, 1953-88

Year	U.S. commercial catch and exvessel value			World commercial catch				
	Published by U.S. (excludes weight of mollusk shells)	Published by FAO (1)	Exvessel value	Fresh-water	Marine			Grand total
					Peruvian anchovy	Other (2)	Total	
	Million metric tons Live weight		Billion dollars	Million metric tons Live weight				
1953....	2.0	2.7	0.4	3.0	0.0	22.9	22.9	25.9
1954....	2.2	2.8	0.4	3.2	0.0	24.4	24.4	27.6
1955....	2.2	2.8	0.3	3.4	0.0	25.5	25.5	28.9
1956....	2.4	3.0	0.4	3.5	0.1	27.2	27.3	30.8
1957....	2.2	2.8	0.4	3.9	0.3	27.5	27.8	31.7
1958....	2.2	2.7	0.4	4.5	0.8	28.0	28.8	33.3
1959....	2.3	2.9	0.4	5.1	2.0	29.8	31.8	36.9
1960....	2.2	2.8	0.4	5.6	3.5	31.1	34.6	40.2
1961....	2.4	2.9	0.4	5.7	5.3	32.6	37.9	43.6
1962....	2.4	3.0	0.4	5.8	7.1	31.9	39.0	44.8
1963....	2.2	2.8	0.4	5.9	7.2	33.5	40.7	46.6
1964....	2.1	2.6	0.4	6.2	9.8	35.9	45.7	51.9
1965....	2.2	2.7	0.4	7.0	7.7	38.5	46.2	53.2
1966....	1.9	2.5	0.5	7.3	9.6	40.4	50.0	57.3
1967....	1.8	2.4	0.4	7.2	10.5	42.7	53.2	60.4
1968....	1.9	2.5	0.5	7.4	11.3	45.2	56.5	63.9
1969....	1.9	2.5	0.5	7.6	9.7	45.4	55.1	62.7
1970....	2.2	2.8	0.6	8.4	13.1	46.6	59.7	65.6
1971....	2.3	2.9	0.7	9.0	11.2	48.3	59.5	66.1
1972....	2.2	2.8	0.7	5.7	4.8	53.7	58.5	62.0
1973....	2.2	2.8	0.9	5.7	1.7	55.3	57.0	62.7
1974....	2.3	2.8	0.9	5.8	4.0	56.7	60.7	66.5
1975....	2.2	2.8	1.0	6.2	3.3	56.9	60.2	66.4
1976....	2.4	3.0	1.3	5.9	4.3	59.6	63.9	69.8
1977....	2.4	3.0	1.5	6.1	0.8	62.0	62.8	68.9
1978....	2.7	3.4	1.9	5.8	1.2	63.6	64.8	70.6
1979....	2.8	3.5	2.2	5.9	1.4	63.8	65.2	71.1
1980....	2.9	3.6	2.2	6.2	0.7	65.1	65.8	72.0
1981....	2.7	3.8	2.4	6.6	1.2	67.0	68.2	74.8
1982....	2.9	4.0	2.4	8.5	1.8	66.9	68.7	77.2
1983....	2.9	4.3	2.4	9.3	0.1	68.2	68.3	77.6
1984....	2.9	5.0	2.3	10.0	0.1	73.8	73.9	83.9
1985....	2.8	5.0	2.3	10.7	1.0	74.6	75.6	86.3
1986....	2.7	5.2	2.8	11.8	4.9	76.0	80.9	92.7
1987....	3.1	6.0	3.1	13.1	2.1	78.6	80.7	93.8
1988....	3.3	6.0	3.5	13.8	3.6	81.0	84.6	98.4

(1) Includes U.S.-flag vessel landings at foreign ports, transfer of catches onto foreign vessels within the U.S. EEZ (joint ventures), and the weight of mollusk shells. (2) Includes diadromous fishes including salmon and other anadromous fishes and catadromous fishes such as eels.

Note:--There are 2,204.6 pounds in a metric ton. Prior to 1970, the world commercial catch of whales and seals is excluded. For the years 1970-1988, data for marine mammals and aquatic plants are excluded. There is a revision in the total world commercial catch back to 1970 as published in FAO Yearbook of Fishery Statistics, Vol. 48 and 50. However, prior to 1974, data on freshwater and marine catches were not revised. Therefore, for the years 1970 to 1973, data will not add to the grand total.

Source:--Fishery Statistics of the United States; Fisheries of the United States; Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, Rome; various issues.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY COUNTRIES, 1984-88 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Country	1984(1)	1985(1)	1986(1)	1987(1)	1988
	Thousand metric tons Live weight				
Japan	12,021	11,409	11,976	11,849	11,897
USSR	10,593	10,523	11,260	11,160	11,332
China	5,927	6,779	8,000	9,346	10,359
Peru	3,317	4,136	5,614	4,584	6,637
United States (2)	5,010	4,970	5,195	6,021	6,028
Chile	4,499	4,804	5,572	4,815	5,210
India	2,864	2,826	2,923	2,908	3,146
Republic of Korea	2,477	2,650	3,103	2,876	2,727
Indonesia	2,252	2,333	2,457	2,605	2,718
Thailand	2,135	2,225	2,536	2,204	2,353
Philippines	1,934	1,865	1,916	1,989	2,042
Denmark	1,848	1,765	1,849	1,706	1,972
Norway	2,466	2,119	1,914	1,949	1,826
Iceland	1,535	1,680	1,659	1,633	1,759
Korea (3)	1,650	1,700	1,700	1,700	1,700
Canada	1,284	1,453	1,510	1,562	1,597
Spain	1,441	1,483	1,434	1,393	1,430
Mexico	1,104	1,226	1,305	1,419	1,363
South Africa	734	775	819	1,424	1,298
United Kingdom	836	891	850	944	938
France	770	838	871	861	898
Vietnam	776	808	825	871	874
Bangladesh	756	776	797	817	829
Ecuador	883	1,087	1,003	680	769
Brazil	835	838	794	733	750
Burma	610	644	687	686	705
Poland	719	683	645	671	655
Turkey	567	578	583	628	628
Malaysia	670	639	621	612	604
Italy	578	589	568	560	559
Morocco	467	473	595	491	551
New Zealand	322	305	345	431	503
Argentina	315	406	420	559	491
Pakistan	372	408	416	428	445
Venezuela	259	265	284	459	444
Netherlands	432	504	455	446	399
Ghana	270	276	321	382	361
All others	8,336	8,572	8,846	9,374	9,586
Total	*83,864*	*86,301*	*92,668*	*93,776*	*98,383*

(1) Revised.

(2) Includes the weight of clam, oyster, scallop, and other mollusk shells. This weight is not included in U.S. landings statistics shown elsewhere.

(3) Data estimated by FAO.

Note:--Statistics for mariculture, aquaculture, and other kinds of fish farming, etc., except for the United States are included in country totals. Statistics on quantities caught by recreational fishermen are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1988, Vol. 66, Rome.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY CONTINENT, 1984-88 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Continent	1984(1)	1985(1)	1986(1)	1987(1)	1988
	Thousand metric tons Live weight				
Asia	37,033	37,740	40,755	41,954	43,662
South America	10,376	11,807	13,976	12,209	14,659
Europe	13,126	12,944	12,725	12,635	12,874
USSR	10,593	10,523	11,260	11,160	11,332
North and Central America	7,958	8,397	8,656	9,665	9,637
Africa	4,117	4,249	4,576	5,314	5,302
Oceania	661	641	720	839	917
Total	*83,864*	*86,301*	*92,668*	*93,776*	*98,383*

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1988, Vol. 66, Rome.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY MAJOR FISHING AREAS, 1984-1988 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Area	1984(1)	1985(1)	1986(1)	1987(1)	1988
	Thousand metric tons Live weight				
Marine Areas:					
Pacific Ocean and adjacent areas	43,596	45,667	50,749	49,285	52,867
Atlantic Ocean and adjacent areas	25,319	24,952	24,907	26,156	26,152
Indian Ocean and adjacent areas	4,885	4,939	5,188	5,252	5,546
Total	*73,800*	*75,558*	*80,844*	*80,693*	*84,565*
Inland waters:					
Asia	6,401	7,021	7,840	8,581	9,208
Africa	1,538	1,553	1,679	1,782	1,834
USSR	881	906	927	988	996
North and Central America	453	464	512	607	632
South America	337	328	361	625	614
Europe	413	430	460	449	484
Oceania	41	41	45	51	50
Total	*10,064*	*10,743*	*11,824*	*13,083*	*13,818*
Grand total	*83,864*	*86,301*	*92,668*	*93,776*	*98,383*

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1988, Vol. 66, Rome.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY SPECIES GROUPS, 1984-88, (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Species group	1984(1)	1985(1)	1986(1)	1987(1)	1988
	Thousand metric tons Live weight				
Herring, sardines, anchovies, etc.	19,607	21,101	23,955	22,300	24,098
Cods, hakes, haddocks, etc.	12,259	12,456	13,541	13,774	13,624
Freshwater fishes	8,078	8,784	9,764	10,488	11,181
Miscellaneous marine and diadromous fishes	8,693	8,922	9,539	9,608	10,205
Jacks, mullets, sauries, etc.	8,817	8,315	7,424	8,248	9,022
Mollusks	6,367	6,445	6,570	7,566	7,772
Redfish, basses, congers, etc.	5,428	5,215	5,970	5,676	5,652
Crustaceans	3,344	3,670	4,079	4,252	4,458
Mackerel, snoeks, cutlassfishes, etc.	4,269	3,829	4,010	3,611	3,870
Tunas, bonitos, billfishes, etc.	3,102	3,183	3,431	3,540	3,783
Flounders, halibuts, soles, etc.	1,190	1,351	1,316	1,289	1,349
Salmons, trouts, smelts, etc.	956	1,169	1,090	1,084	1,152
Shads, milkfishes, etc.	739	773	776	805	684
Sharks, rays, chimaeras, etc.	598	620	627	659	672
River eels	98	99	95	103	115
Sturgeons, paddlefishes, etc.	27	26	25	24	21
Miscellaneous	292	343	406	749	725
Total	*83,864*	*86,301*	*92,618*	*93,776*	*98,383*

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1988, Vol. 66, Rome.

DISPOSITION OF WORLD COMMERCIAL CATCH, 1984-1988 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Item	1984(1)	1985(1)	1986(1)	1987(1)	1988
	Percent of total				
Marketed fresh	17.8	18.6	19.4	20.3	21.6
Frozen	24.3	23.9	23.6	23.8	23.3
Canned	13.9	13.3	12.5	12.5	12.1
Cured	14.5	14.8	14.2	14.7	14.1
Reduced to meal and oil (2)	28.2	27.9	29.0	27.4	27.6
Miscellaneous purposes	1.3	1.5	1.3	1.3	1.3
Total	*100.0*	*100.0*	*100.0*	*100.0*	*100.0*

(1) Revised.

(2) Only whole fish destined for the manufacture of oils and meals are included. Raw material for reduction derived from fish primarily destined for marketing fresh, frozen, canned, cured, and miscellaneous purposes is excluded; such waste quantities are included under the other disposition channels.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1988, Vol. 67, Rome.

WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS, BY LEADING COUNTRIES, 1985-88

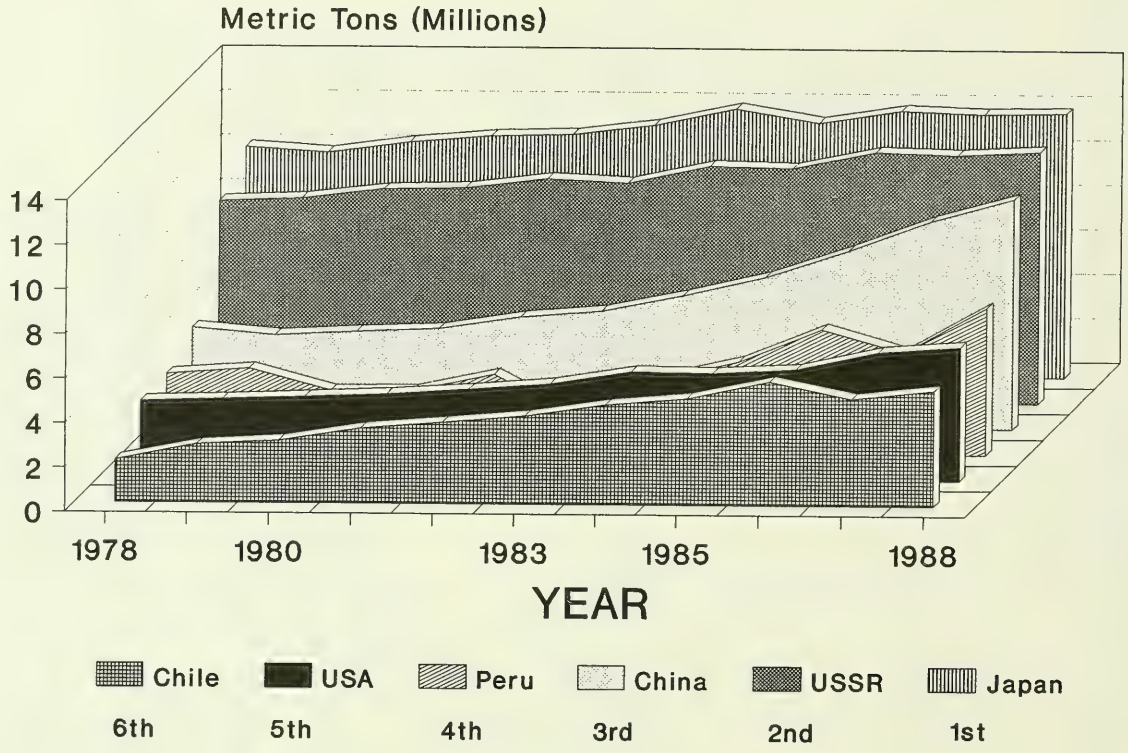
Country	1985 (1)	1986 (1)	1987 (1)	1988
	Thousand U.S. dollars			
IMPORTS				
Japan	4,744,277	6,593,515	8,308,077	10,657,567
United States	4,051,794	4,748,692	5,662,329	5,389,345
France	1,039,848	1,510,431	2,021,868	2,234,085
Italy	984,990	1,264,513	1,738,226	1,894,060
Spain	412,144	721,941	1,321,771	1,715,725
United Kingdom	940,598	1,216,053	1,386,818	1,576,799
Fed. Rep. of Germany	818,616	1,112,060	1,268,965	1,411,166
Hong Kong	470,293	622,984	792,062	1,029,723
Denmark	370,442	596,060	842,476	851,726
Canada	355,939	433,087	511,901	593,388
Belgium	304,024	425,923	529,941	582,893
Netherlands	308,449	387,935	509,430	577,894
Thailand	138,312	283,658	267,149	537,918
Portugal	201,976	256,373	424,716	457,133
Sweden	245,222	333,934	404,897	418,409
Taiwan	190,704	197,827	308,247	403,227
Singapore	204,376	257,666	312,955	370,311
Switzerland	193,347	264,921	332,826	362,960
Republic of Korea	89,775	117,079	212,497	314,967
Other Countries	2,537,767	2,881,196	3,364,751	3,867,821
Total	***18,602,893***	***24,225,848***	***30,521,902***	***35,247,117***
EXPORTS				
United States	1,162,372	1,480,990	1,824,788	2,441,176
Canada	1,359,248	1,751,809	2,092,170	2,206,652
Denmark	952,712	1,381,460	1,750,652	1,854,473
Republic of Korea	796,878	1,171,111	1,505,697	1,784,068
Taiwan	956,452	1,374,723	1,742,028	1,694,699
Thailand	675,063	1,011,896	1,261,066	1,630,891
Norway	922,460	1,171,170	1,474,930	1,608,071
China	366,506	645,164	911,654	1,361,945
Iceland	617,355	857,994	1,071,067	1,059,294
Japan	819,840	897,851	889,828	1,037,318
Netherlands	543,666	766,379	953,177	948,153
Chile	438,627	516,023	635,583	804,746
USSR	383,908	587,080	637,287	799,633
Hong Kong	298,716	416,760	501,173	732,204
France	359,000	501,233	654,464	728,491
United Kingdom	362,296	511,130	717,418	710,161
Indonesia	236,620	340,619	441,079	664,483
Spain	353,767	398,703	474,752	650,542
Australia	311,856	340,877	398,842	534,134
Other Countries	5,464,436	6,950,371	8,190,188	8,936,262
Total	***17,381,778***	***23,073,343***	***28,127,843***	***32,187,396***

(1) Revised.

Note:--Data on imports and exports cover the international trade of 176 countries or areas. The total value of exports is consistently less than the total value of imports, probably because charges for insurance, freight, and similar expenses were included in the import value but not in in the export value. The seven fishery commodity groups covered by this table are: 1. Fish, fresh, chilled or frozen; 2. Fish, dried, salted, or smoked; 3. Crustaceans and mollusks, fresh, dried, salted,, etc.; 4. Fish products and preparations, whether or not in airtight containers; 5. Crustacean and mollusk products and preparations, whether or not in airtight containers; and 6. Oils and fats, crude or refined, of aquatic animal origin; and 7. Meals solubles, and similar animal foodstuffs of aquatic animal origin.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1988, Vol. 67, Rome.

WORLD COMMERCIAL CATCH BY LEADING COUNTRIES 1978 - 1988



PROCESSED FISHERY PRODUCTS

VALUE OF PROCESSED FISHERY PRODUCTS, 1988 AND 1989
(Processed from domestic catch and imported products)

Item	1988(1)		1989(2)	
	Thousand dollars	Percent of total	Thousand dollars	Percent of total
Edible:				
Fresh and frozen.....	3,987,004	68.4	4,516,984	65.6
Canned.....	1,388,067	23.8	1,753,536	25.5
Cured.....	125,671	2.2	174,282	2.5
Total edible.....	*5,500,742*	*94.4*	*6,444,802*	*93.5*
Industrial:				
Bait and animal food (canned).....	92,722	1.6	238,343	3.5
Meal, oil, and solubles.....	188,843	3.2	156,321	2.3
Other.....	46,737	0.8	49,756	0.7
Total industrial.	*328,302*	*5.6*	*444,420*	*6.5*
Grand total.....	*5,829,044*	*100.0*	*6,889,222*	*100.0*

(1) Revised.
(2) Preliminary. May not add due to rounding.

Note:--Value is based on selling price at the plant. Processed Fishery Products, Annual Summary, 1989, Current Fishery Statistics No. 8903 will provide additional information.

FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1980-89

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1980-89

YEAR	Fish sticks		Fish portions		Breaded shrimp	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1980.....	88,429	88,762	344,249	388,430	83,182	254,283
1981.....	88,972	96,754	328,407	388,722	85,177	282,026
1982.....	91,178	105,516	304,104	385,894	94,391	337,604
1983.....	86,928	115,556	335,270	410,858	100,106	386,222
1984.....	92,441	109,677	333,212	413,789	94,522	369,415
1985.....	96,239	111,265	330,362	367,734	95,734	354,808
1986.....	87,289	94,290	341,628	393,956	107,834	358,442
1987.....	98,927	*142,946	323,746	*445,631	108,937	371,798
1988.....	80,148	113,868	301,229	438,873	99,471	292,899
1989.....	89,112	116,440	279,777	400,289	*120,950	*404,592

(1) *Record. Records--1973 fish sticks production: 127,156,000 lb; 1973 fish portions production: 396,089,000 lb.

Note:-- Processed Fishery Products, Annual Summary, 1989, Current Fishery Statistics No. 8903 will provide additional information.

PROCESSED FISHERY PRODUCTS

FISH FILLETS AND STEAKS

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1988 AND 1989

Species	1988 (1)		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fillets:				
Anglerfish	4,763	13,368	5,499	14,596
Bluefish	371	594	349	492
Cod	61,824	137,062	73,595	131,996
Cusk	911	1,669	852	1,737
Dolphin	1,455	4,364	1,185	3,217
Flounders	53,189	162,552	43,589	141,533
Groundfish mixed	5,538	12,782	6,348	17,397
Groupers	2,376	10,849	2,184	10,399
Haddock	8,144	30,231	7,119	25,379
Hake, Atlantic	1,617	3,041	1,453	2,990
Halibut	629	1,974	1,581	4,691
Lingcod	1,238	2,075	1,275	2,212
Ocean perch:				
Atlantic	2,091	5,307	1,955	3,427
Pacific	3,099	4,225	2,985	5,843
Ocean pout	656	863	1,238	1,663
Pollock:				
Atlantic	13,569	20,978	10,919	18,200
Alaska	109,993	110,376	131,305	115,326
Rockfishes	36,498	56,882	25,701	42,626
Sablefish	2,146	4,065	1,334	2,806
Salmon	1,873	9,177	8,915	26,320
Sea trout	704	1,352	566	975
Shark	5,320	5,123	4,595	5,272
Snapper:				
Red	272	1,484	346	1,971
Unclassified	729	3,971	587	3,625
Spanish mackerel	507	517	595	886
Swordfish	988	5,941	740	4,651
Tuna	3,548	15,006	1,722	6,224
Whitefish	316	1,108	304	1,711
Wolffish	201	437	162	315
Yellow perch	646	3,103	611	2,899
Yellow pike	238	797	168	565
Unclassified	30,645	65,199	24,453	54,264
Total	*356,094*	*696,472*	*364,230*	*656,208*
Steaks:				
Halibut	11,256	34,699	12,593	40,132
King mackerel	82	229	96	258
Salmon	3,938	13,906	4,272	13,062
Shark	562	1,425	715	1,774
Swordfish	2,432	12,162	3,065	12,387
Unclassified	3,872	7,976	4,623	13,162
Total	*22,142*	*70,397*	*25,364*	*80,775*
Grand total	*378,236*	*766,869*	*389,594*	*736,983*

(1) Revised.

Note:--The following amounts of frozen fish blocks were produced from the fillets reported above: 44,601,863 lb valued at $43,982,769 in 1988, and 30,898,182 lb valued at $22,496,560 in 1989. Final data will be published in Processed Fishery Products, Annual Summary, 1989, Current Fishery Statistics No. 8903.

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1988 AND 1989

Species	Pounds per case	1988			1989		
		Standard cases	Thousand pounds	Thousand dollars	Standard cases	Thousand pounds	Thousand dollars
For human consumption:							
Fish:							
Herring.....	23.4	184,613	4,320	6,032	206,185	4,825	7,224
Mackerel.....	45	401,764	18,079	8,777	391,600	17,622	6,983
Roe and caviar.....	48	10,523	505	3,023	168,604	8,093	9,622
Salmon:							
Natural.....	48	1,842,059	88,419	219,363	4,105,078	197,044	513,622
Specialties.....	48	3,898	187	831	106,554	5,115	9,957
Sardines, Maine....	23.4	796,181	18,611	24,082	564,989	13,221	16,799
Tuna:							
Solid.....	19.5	6,336,445	123,561	293,860	6,619,358	129,077	317,665
Chunk.....	19.5	24,315,070	474,144	665,906	28,511,993	555,984	739,011
Flakes and grated.....	18	26,456	476	443	67,024	1,206	1,086
Total tuna.....	--	*30,677,971*	*598,181*	*960,209*	*35,198,375*	*686,267*	*1,057,762*
Specialties.....	48	101	5	37	186	9	26
Other.....	48	725,316	34,815	31,002	368,848	17,705	16,517
Total fish.....	--	*34,642,426*	*763,122*	*1,253,356*	*41,110,419*	*949,901*	*1,638,512*
Shellfish:							
Clam and clam products: (1)							
Whole and minced.	15	1,834,375	27,516	42,175	2,364,261	35,464	44,357
Chowder and juice	30	3,027,300	90,819	48,566	2,937,637	88,129	37,781
Specialties.....	48	190,549	9,146	6,982	233,883	11,226	9,229
Crabs, natural.....	19.5	18,420	359	1,789	25,839	504	3,039
Lobster meat and specialties.....	48	21,779	1,045	1,053	20,425	980	931
Oyster, specialties	48	63,787	3,062	2,049	75,444	3,621	1,254
Shrimp:							
Natural (2).....	6.75	663,132	4,476	24,904	388,610	2,623	8,753
Specialties.....	48	26,413	1,268	1,774	10,357	497	622
Other.....	48	157,243	7,548	5,419	350,889	16,843	9,058
Total shellfish.	--	*6,002,998*	*145,239*	*134,711*	*6,407,345*	*159,887*	*115,024*
Total for human consumption....	--	*40,645,424*	*908,361*	*1,388,067*	*47,517,764*	*1,109,788*	*1,753,536*
For bait and animal food:							
Animal food.....	48	4,642,373	222,834	92,205	7,195,393	345,379	237,829
Salmon eggs.....	48	1,784	86	517	1,774	85	514
Total for bait & animal food..	*48*	*4,644,157*	*222,920*	*92,722*	*7,197,167*	*345,464*	*238,343*
Grand total.....	--	*45,289,581*	*1,131,281*	*1,480,789*	*54,714,931*	*1,455,252*	*1,991,879*

(1) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products.

(2) Drained weight.

Note:--Final figures will be published in Processed Fishery Products, Annual Summary, 1989, Current Fishery Statistics No. 8903.

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED TUNA, 1988-89

Item	Pounds per case	1988		1989	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Albacore:					
Solid	19.5	5,895	278,745	6,063	301,348
Chunk	19.5	829	38,419	977	43,943
Flakes and grated	18	(1)	(1)	(1)	(1)
Total	--	*6,724*	*317,164*	*7,040*	*345,291*
Lightmeat:					
Solid	19.5	442	15,115	556	16,317
Chunk	19.5	23,486	627,487	27,535	695,068
Flakes and grated	18	26	443	67	1,086
Total	--	*23,954*	*643,045*	*28,158*	*712,471*
Grand total	--	*30,678*	*960,209*	*35,198*	*1,057,762*

(1) Included with lightmeat.

PRODUCTION OF CANNED SHRIMP, BY AREA, 1988-89

Area	Pounds per case	1988(1)		1989	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Gulf States	6.75	550	20,327	386	8,710
Pacific States	6.75	113	4,577	3	43
Total	*6.75*	*663*	*24,904*	*389*	*8,753*

(1) Revised.

PRODUCTION OF CANNED SALMON, 1988-89

Item	Pounds per case	1988(1)		1989	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Chinook or king	48	2	353	5	654
Chum or keta	48	196	27,597	169	18,290
Pink	48	1,374	138,131	3,188	361,675
Silver or coho	48	39	6,698	36	5,242
Red or sockeye	48	231	46,584	707	127,761
Total	48	*1,842*	*219,363*	*4,105*	*513,622*

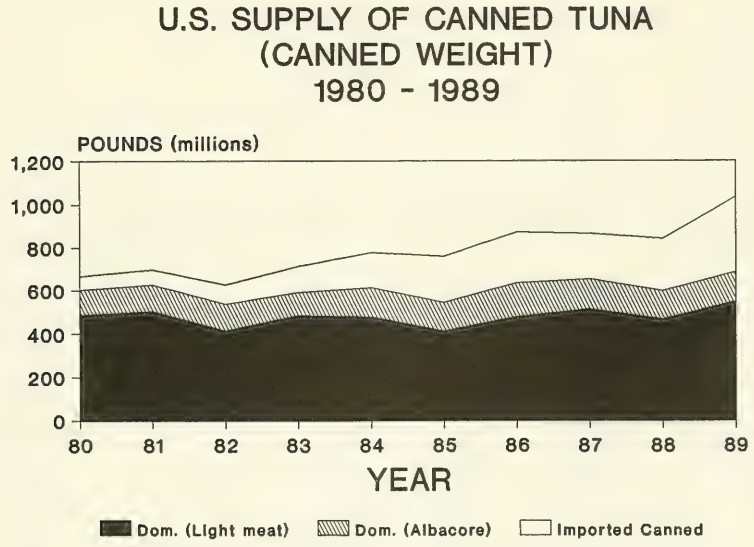
(1) Revised.

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, 1980-89

Year	For human consumption		For animal food and bait		Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1980.....	1,009,280	1,781,948	506,817	145,708	1,516,097	1,927,656
1981.....	1,067,415	*1,819,409	408,783	134,562	1,476,198	1,953,971
1982.....	876,157	1,325,435	407,219	132,048	1,283,376	1,457,483
1983.....	987,329	1,393,604	403,466	140,874	1,390,795	1,534,478
1984.....	1,041,845	1,435,532	369,123	141,931	1,410,968	1,577,463
1985.....	913,078	1,269,311	248,068	91,003	1,161,146	1,360,314
1986.....	1,011,080	1,384,213	320,953	100,377	1,332,033	1,484,590
1987.....	965,023	1,476,479	220,641	85,416	1,185,664	1,561,895
1988 (1).....	908,361	1,388,067	222,920	92,722	1,131,281	1,480,789
1989.....	*1,109,788	1,753,536	345,464	*238,343	1,455,252	*1,991,879

(1) Revised. *Record. Records--1973 animal food and bait: 696,357,000 lb; 1973 total: 1,647,357,000 lb.



PROCESSED FISHERY PRODUCTS

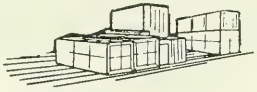
INDUSTRIAL PRODUCTS

PRODUCTION OF MEAL, OIL, AND SOLUBLES, 1988 AND 1989

Product	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Dried scrap and meal:				
Fish:				
Menhaden (1).....	504,524	113,984	463,944	89,083
Tuna and mackerel....	75,934	9,814	82,270	10,392
Unclassified.....	44,518	5,422	46,790	14,055
Total.....	***624,976***	***129,220***	***593,004***	***113,530***
Shellfish.....	18,820	1,457	25,378	1,519
Total, scrap and meal	***643,796***	***130,677***	***618,382***	***115,049***
Solubles, total.....	***223,449***	***14,571***	***232,709***	***17,746***
Body oil:				
Menhaden (1).....	217,493	42,776	218,550	23,172
Unclassified.....	7,240	819	6,936	354
Total, oil.....	***224,733***	***43,595***	***225,486***	***23,526***

(1) May include small quantities made from other species.

Note:--To convert pounds of oil to gallons divide by 7.75. The above data include production in American Samoa and Puerto Rico. Final data will be published in Fishery Products, Annual Summary, 1989, Current Fisheries Statistics 8903.



PRODUCTION OF INDUSTRIAL PRODUCTS, 1980-89

Year	Quantity			Value		
	Meal	Solubles	Marine animal oil	Meal, solubles, and oil	Other industrial products	Grand total
	Thousand pounds			Thousand dollars		
1980.....	723,844	267,364	312,511	206,081	*63,525	*269,606
1981.....	637,018	257,242	184,302	166,738	43,497	210,235
1982.....	746,854	305,002	347,513	192,138	41,499	233,637
1983.....	763,536	317,006	*399,334	*212,606	39,785	252,391
1984.....	751,528	252,076	372,804	189,796	44,258	234,054
1985.....	721,682	323,028	285,077	144,724	37,775	182,499
1986.....	702,194	195,148	336,708	138,765	36,825	175,590
1987.....	*786,978	249,289	298,496	174,321	37,524	211,845
1988.....	643,796	223,449	224,733	188,843	46,737	235,580
1989.....	618,382	232,709	225,486	156,321	49,756	206,077

*Record. Record--1959 fish solubles production: 330,718,000 lb.

Note:--Does not include the value of imported items that may be further processed.

U.S. COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1989

Item	January 1	March 31	June 30	September 30	December 31
			Thousand pounds		
Blocks:					
Cod	22,335	14,047	19,946	22,907	14,242
Flounder	3,943	2,433	2,185	4,141	3,635
Greenland turbot	591	141	80	32	100
Haddock	2,546	1,504	1,526	1,747	2,390
Ocean perch	1,214	670	678	601	692
Pollock: Alaska	18,175	16,422	9,281	10,095	10,533
Saithe and other	1,361	1,309	2,570	2,212	2,413
Whiting	3,149	3,983	2,868	1,776	2,162
Minced (grated) all species	4,109	4,529	7,765	11,510	11,372
Unclassified	2,757	3,229	2,796	7,483	7,732
Total blocks	***60,180***	***48,267***	***49,695***	***62,504***	***55,271***
Fillets and steaks:					
Cod	20,582	17,122	36,347	41,105	35,244
Flounder	9,792	7,049	8,234	12,031	14,838
Greenland turbot	1,711	550	1,030	1,218	754
Haddock	3,554	1,971	5,046	5,350	8,103
Halibut	2,374	1,727	1,876	2,343	2,327
Ocean perch	7,626	3,002	3,132	5,039	7,617
Pollock	20,709	19,714	21,853	25,648	30,772
Whiting	4,227	2,740	2,018	2,720	3,270
Unclassified	14,886	10,356	11,962	15,923	13,451
Total fillets and steaks	***85,461***	***64,231***	***91,498***	***111,377***	***116,376***
Fish sticks and portions (cooked uncooked, all species)	34,873	27,607	28,475	16,144	27,378
Round, dressed, etc.:					
Catfish	9,096	8,122	7,280	7,025	9,109
Halibut	20,486	5,542	12,858	13,561	9,960
Rainbow trout	2,129	2,221	2,012	1,824	1,902
Salmon	45,164	18,184	10,685	50,812	39,657
Whiting	1,768	1,857	2,226	1,216	630
Unclassified	33,424	28,312	29,514	41,482	33,360
Surimi and analog products	N.A.	28,605	26,477	26,054	24,998
Crabs:					
King	2,667	1,742	1,397	2,464	3,393
Snow	11,373	15,397	26,950	20,233	12,832
Unclassified	4,184	5,055	6,371	5,596	3,307
Lobsters (spiny and other)	5,273	4,330	4,369	3,840	3,028
Scallops	4,990	3,556	3,327	3,598	3,404
Shrimp:					
Raw, headless	26,168	23,297	21,207	24,656	28,578
Breaded	8,805	7,349	8,787	6,840	6,359
Peeled	15,651	11,762	14,230	14,670	14,113
Unclassified	7,945	8,126	8,649	7,344	7,134
Total shrimp	***58,569***	***50,534***	***52,873***	***53,510***	***56,184***
Squid	11,991	12,182	10,531	14,453	16,628
Other shellfish	7,673	6,765	8,102	8,404	9,386
Bait and animal food	6,368	9,734	10,037	15,243	9,834
Total fish and shellfish	***393,678***	***330,061***	***374,146***	***444,887***	***420,009***

N.A.--Not available.

Note:--Holdings of frozen fishery products include domestic and imported fish and shellfish.

Source:--Frozen Fishery Products, Annual Summary, 1989, Current Fishery Statistics No. 8901 will provide additional information.

U.S. Imports of Edible Fishery Products, 1989
(Total Imports $5,497.8 million)

IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1980-89

Year	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
1980	2,144,928	2,686,721	961,731	3,648,452
1981	2,272,474	3,034,206	1,171,805	4,206,011
1982	2,225,048	3,202,408	1,321,170	4,523,578
1983	2,386,771	3,626,704	1,502,668	5,129,372
1984	2,454,287	3,742,333	2,141,060	5,883,393
1985	2,754,018	4,064,334	2,614,252	6,678,586
1986	2,978,905	4,813,488	2,812,805	7,626,293
1987	3,201,132	*5,711,233	3,106,464	8,817,697
1988	2,967,786	5,441,628	3,430,367	8,871,995
1989	*3,243,017	5,497,849	*4,106,507	*9,604,356

*Record. Source:--U.S. Department of Commerce, Bureau of the Census.

FISHERY PRODUCTS IMPORTS: VALUE, DUTIES COLLECTED, AND AD VALOREM EQUIVALENT, 1980-89

Year	Value		Duties collected		Average ad valorem equivalent	
	Fishery imports	All imports	Fishery imports	All imports	Fishery imports	All imports
	Thousand dollars				Percent	
1980	3,648,452	239,943,468	87,288	7,535,421	2.4	3.1
1981	4,206,011	260,981,800	102,064	8,893,200	2.4	3.4
1982	4,523,578	243,951,900	111,952	8,687,452	2.5	3.6
1983	5,129,372	256,679,524	116,503	9,430,004	2.3	3.7
1984	5,883,393	322,989,519	145,689	12,042,152	2.5	3.7
1985	6,678,586	343,553,150	191,421	13,066,970	2.9	3.8
1986	7,626,293	368,656,594	187,791	13,312,112	2.5	3.6
1987	8,817,697	402,066,002	178,861	13,922,567	2.0	3.5
1988	8,871,995	437,140,185	206,470	15,054,304	2.3	3.4
1989	9,604,356	472,976,600	235,851	16,096,400	2.5	3.4

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1988 AND 1989

Item	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Edible fishery products:				
Fresh and frozen:				
Whole or eviscerated:				
Cod, cusk, haddock and flounder	85,139	52,717	100,157	58,443
Halibut	11,952	25,432	10,374	23,363
Salmon	50,144	155,173	98,799	228,855
Tuna:				
Albacore	195,991	202,967	200,306	202,291
Other (1)	354,156	169,331	449,431	199,449
Other	225,623	206,065	230,537	231,014
Fillets and steaks:				
Flounder	58,534	119,996	58,455	125,656
Groundfish	253,187	431,126	265,001	437,044
Other	205,988	358,766	194,162	364,600
Blocks and slabs	303,237	382,482	283,278	325,689
Shrimp	489,740	1,725,971	491,649	1,684,788
Crabmeat	12,346	62,763	10,317	41,389
Lobster:				
American (includes fresh-cooked meat)	39,732	183,482	48,912	246,420
Spiny	37,806	363,195	23,208	206,925
Scallops (meats)	32,039	115,706	40,874	139,008
Analog products with shellfish	24,516	41,570	16,153	28,742
Other fish and shellfish	93,038	182,806	105,755	177,224
Canned:				
Herring, not in oil	6,541	10,264	5,463	7,878
Sardines:				
In oil	22,813	30,824	21,771	29,840
Not in oil	30,546	23,154	34,608	25,529
Tuna:				
In oil	318	744	422	924
Not in oil	244,186	297,922	347,790	374,987
Balls, cakes, and puddings	5,650	8,376	11,104	17,694
Clams	11,268	13,993	12,686	11,145
Crabmeat	7,720	19,622	8,280	21,649
Lobsters:				
American	594	5,342	150	990
Spiny	52	280	164	422
Oysters	27,268	39,675	20,405	36,893
Shrimp	14,138	28,730	11,315	20,399
Other fish and shellfish	53,263	71,986	57,966	90,863
Cured:				
Pickled or salted:				
Cod, haddock, hake, et al	31,361	52,665	16,641	25,405
Herring	20,333	8,618	11,099	5,064
Other	11,784	27,718	38,070	66,720
Other fish and shellfish	6,783	22,167	17,715	40,547
Total edible fishery products	*2,967,786*	*5,441,628*	*3,243,017*	*5,497,849*
Nonedible fishery products:				
Meal and scrap	265,310	49,567	171,112	31,715
Fish oils	27,667	9,666	25,449	9,936
Other	-	3,371,134	-	4,064,856
Total nonedible fishery products	-	*3,430,367*	-	*4,106,507*
Grand total	-	*8,871,995*	-	*9,604,356*

(1) Includes loins and discs.

Note:--Data include imports into the United States and Puerto Rico and include landings of tuna by foreign vessels at American Samoa. Statistics on imports are the weight of individual products as exported, i.e., fillets, steaks, whole, headed, etc.

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1989

Continent and Country	Edible		Nonedible	Total
	Thousand pounds	- - - - - -Thousand dollars- - - - - -		
North America:				
Canada	757,253	1,212,139	290,962	1,503,101
Mexico	129,795	392,663	46,600	439,263
Panama	42,358	98,316	4,190	102,506
Dominican Republic	689	1,142	71,691	72,833
Honduras	13,570	58,960	22	58,982
Other	66,993	161,897	25,128	187,025
Total	*1,010,658*	*1,925,117*	*438,593*	*2,363,710*
South America:				
Ecuador	132,967	349,970	296	350,266
Brazil	45,922	101,326	39,670	140,996
Chile	56,968	79,355	22,760	102,115
Peru	27,956	30,391	64,399	94,790
Venezuela	73,983	82,461	3,077	85,538
Other	103,342	124,966	49,905	174,871
Total	*441,138*	*768,469*	*180,107*	*948,576*
Europe:				
European Economic Community:				
Italy	1,268	2,151	1,169,584	1,171,735
France	59,038	24,158	281,754	305,912
Fed. Rep of Germany	2,144	3,286	130,808	134,094
Denmark	38,809	61,084	54,812	115,896
United Kingdom	8,975	29,449	80,598	110,047
Other	67,909	90,927	148,673	239,600
Total	*178,143*	*211,055*	*1,866,229*	*2,077,284*
Other:				
Iceland	97,724	169,657	774	170,431
Norway	55,618	133,393	7,915	141,308
Switzerland	712	2,480	58,230	60,710
Faroe Island	13,282	27,945	-	27,945
Turkey	1,002	1,900	21,031	22,931
Other	19,616	22,787	45,704	68,491
Total	*187,954*	*358,162*	*133,654*	*491,816*
Asia:				
Thailand	352,013	503,778	288,972	792,750
Hong Kong	20,850	24,016	427,662	451,678
Japan	103,318	176,656	241,262	417,918
China	121,813	303,932	32,134	336,066
Republic of Korea	103,593	147,425	118,233	265,658
Other	548,065	757,058	331,534	1,088,592
Total	*1,249,652*	*1,912,865*	*1,439,797*	*3,352,662*
Australia and Oceania:				
New Zealand	50,915	140,263	6,176	146,439
Australia	18,007	123,189	14,144	137,333
Vanuatu	35,221	13,462	-	13,462
French Polynesia	62	67	7,492	7,559
Papua New Guinea	127	881	726	1,607
Other	988	1,838	1,728	3,566
Total	*105,320*	*279,700*	*30,266*	*309,966*
Africa:				
Ghana	42,319	13,861	-	13,861
Morocco	2,248	4,917	4,833	9,750
Mauritius	9,160	7,625	229	7,854
Nigeria	2,878	6,582	733	7,315
Botswana	-	-	5,943	5,943
Other	13,547	9,496	6,123	15,619
Total	*70,152*	*42,481*	*17,861*	*60,342*
Grand total	*3,243,017*	*5,497,849*	*4,106,507*	*9,604,356*

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY SPECIES AND TYPE, 1988 AND 1989

Species and type	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Regular blocks and slabs:				
Cod	150,220	237,317	135,615	195,071
Flatfish:				
Turbot	738	848	677	796
Other	7,303	11,207	6,794	9,528
Haddock	17,846	27,904	12,741	21,603
Ocean Perch, Atlantic	1,350	1,518	1,005	1,219
Pollock	61,518	47,647	45,760	31,512
Whiting	16,646	13,935	24,249	15,548
Other	9,507	17,179	12,601	21,240
Total	*265,128*	*357,555*	*239,442*	*296,517*
Minced blocks and slabs	38,109	24,927	43,836	29,172
Grand total	*303,237*	*382,482*	*283,278*	*325,689*

Source:--U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY COUNTRY OF ORIGIN, 1988 AND 1989

Country	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada	126,140	171,906	121,598	154,106
Denmark	43,394	69,144	34,389	51,243
Iceland	20,684	28,212	21,868	27,935
Republic of Korea	51,333	45,060	30,684	25,352
Japan	5,276	5,618	11,821	13,449
Argentina	10,008	7,556	15,805	9,942
Poland	12,771	10,149	14,230	8,774
Norway	19,975	29,690	5,896	8,013
Uruguay	6,256	4,823	8,279	5,538
Other	7,400	10,324	18,708	21,337
Total	*303,237*	*382,482*	*283,278*	*325,689*

Source:--U.S. Department of Commerce, Bureau of the Census.

GROUNDFISH FILLET AND STEAK IMPORTS, BY SPECIES, 1988 AND 1989 (1)

Species	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Cod	159,188	287,555	168,095	290,084
Haddock (2)	52,141	84,866	52,524	88,363
Ocean Perch, Atlantic	41,858	58,705	44,382	58,597
Total	*253,187*	*431,126*	*265,001*	*437,044*

(1) Does not include data on fish blocks and slabs.
(2) Includes some quantities of cusk, hake, and pollock fillets.

Note:--Imports and Exports of Fishery Products Annual Summary, 1989, Current Fishery Statistics No. 8902 will provide additional information.

IMPORTS

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1980-89

Year	Quota (1)	Imports	
		Under quota (2)	Over quota (3)
	Thousand pounds		
1980	109,074	109,074	5,064
1981	104,355	76,683	-
1982	109,742	92,759	-
1983	91,904	91,904	28,304
1984	95,587	95,587	68,328
1985	97,496	97,496	116,854
1986	81,092	81,092	153,057
1987	91,539	91,539	123,364
1988	85,185	85,185	193,784
1989	76,734	76,734	234,323

(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack, excluding the pack in American Samoa.

(2) Dutiable in 1956 to 1967 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; 1970, 8.5 percent; 1971, 7 percent; and 1972 to 1989, 6 percent.

(3) Dutiable in 1972 to 1989, 12.5 percent.

Note:--Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calendar year, except for receipts from insular possessions of the U.S., is subject to this quota.

Source:--U.S. Department of the Treasury, U.S. Customs Service.

CANNED TUNA, BY COUNTRY OF ORIGIN, 1988 AND 1989

Country	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Thailand	178,941	207,538	248,281	260,996
Taiwan	24,013	41,759	27,874	44,857
Philippines	18,505	18,629	34,008	31,129
Indonesia	4,854	5,690	22,639	19,667
Japan	3,370	6,992	2,460	5,172
Malaysia	2,824	3,964	4,259	5,131
Other	11,997	14,094	8,691	8,959
Total	*244,504*	*298,666*	*348,212*	*375,911*

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

SHRIMP IMPORTS, BY COUNTRY OF ORIGIN, 1988 AND 1989

Country	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
North America:				
Mexico	63,524	310,549	60,387	285,138
Panama	14,737	57,649	17,205	68,470
Honduras	9,137	32,289	7,565	25,420
Guatemala	4,278	14,368	6,234	20,268
El Salvador	8,171	26,138	6,163	17,818
Costa Rica	3,656	12,746	3,036	10,930
Canada	5,343	14,320	4,020	9,140
Trinidad and Tobago	393	1,351	383	945
Belize	130	507	206	757
Haiti	52	323	53	240
Other	282	1,010	28	76
Total	*109,703*	*471,250*	*105,280*	*439,202*
South America:				
Ecuador	103,971	382,109	81,139	308,589
Venezuela	8,931	28,478	12,304	44,165
Brazil	19,934	59,109	16,772	41,433
Colombia	4,194	18,585	6,013	26,060
Peru	4,083	14,011	3,979	14,910
Guyana	4,671	12,439	4,898	13,360
Argentina	496	1,447	2,038	8,553
French Guiana	2,636	9,536	1,469	5,249
Chile	771	2,964	856	3,097
Suriname	711	2,703	183	727
Other	11	31	84	325
Total	*150,409*	*531,412*	*129,735*	*466,468*
Europe:				
European Economic Community:				
United Kingdom	1,200	3,732	962	3,040
Spain	124	836	172	751
Belgium	350	998	137	339
Federal Republic of Germany	95	453	61	332
Portugal	-	-	46	104
Other	479	2,042	110	241
Total	*2,248*	*8,061*	*1,488*	*4,807*
Other:				
Iceland	120	558	162	1,036
Switzerland	183	544	221	678
Faroe Islands	-	-	143	595
Norway	1,245	5,225	155	562
German Democratic Republic	-	-	35	122
Other	154	460	54	201
Total	*1,702*	*6,787*	*770*	*3,194*
Asia:				
China	104,316	300,042	102,988	276,713
Thailand	23,676	91,290	48,587	187,134
Philippines	7,635	37,469	14,238	56,796
Indonesia	4,335	17,638	13,493	51,933
India	32,169	55,048	28,680	51,649
Bangladesh	11,659	50,452	12,905	46,003
Singapore	5,599	19,114	7,899	29,259
Taiwan	17,365	85,633	7,427	23,011
Malaysia	6,073	15,093	7,976	19,185
Pakistan	14,548	25,237	9,806	17,066
Other	8,295	25,153	8,026	22,059
Total	*235,670*	*722,169*	*262,025*	*780,808*
Australia and Oceania	1,009	6,005	748	3,873
Africa	3,137	9,017	2,918	6,835
Grand total	*503,878*	*1,754,701*	*502,964*	*1,705,187*

Note:--Statistics on imports are the weights of the individual products as exported, i.e., raw headless, peeled, etc.

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1988 AND 1989

Type of product	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Shell-on (heads off).....	358,765	1,337,211	372,455	1,363,564
Peeled:				
Canned.....	14,138	28,730	11,315	20,399
Not breaded:				
Raw.....	96,520	244,016	109,417	277,812
Other.....	33,087	142,256	9,232	42,471
Breaded.....	1,368	2,488	545	941
Total.....	*503,878*	*1,754,701*	*502,964*	*1,705,187*

Source:--U.S. Department of Commerce, Bureau of the Census.

FISH MEAL AND SCRAP IMPORTS, BY COUNTRY OF ORIGIN, 1988 AND 1989

Country	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada.....	70,524	11,209	34,129	10,333
Peru.....	103,052	19,997	63,594	10,306
Chile.....	56,058	12,236	25,611	4,243
Panama.....	22,268	3,521	10,761	1,380
Swedan.....	-	-	273	155
Mexico.....	958	245	670	135
Norway.....	200	55	271	104
Argentina.....	-	-	461	90
Other.....	12,250	2,304	35,342	4,969
Total.....	*265,310*	*49,567*	*171,112*	*31,715*

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

DOMESTIC FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1988 AND 1989

Item	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Edible fishery products:				
Fresh and frozen:				
Whole or eviscerated:				
Butterfish	10,827	14,121	3,455	2,818
Eels	679	1,008	3,703	3,141
Halibut	6,185	11,470	19,066	27,639
Herring	74,597	76,551	81,028	42,967
Mackerel	3,580	1,328	9,298	3,796
Mullet	1,465	1,074	1,465	1,041
Pollock	4,903	4,681	9,323	5,328
Sablefish	41,804	87,794	50,174	83,004
Salmon	292,400	825,934	328,557	728,257
Unclassified	211,991	208,284	243,578	227,451
Fillets, steaks, and portions:				
Cod	11,941	18,196	4,386	5,605
Halibut	1,797	3,099	2,038	3,000
Salmon	1,715	4,457	8,818	19,006
Unclassified	71,899	86,692	76,933	86,840
Fish sticks and portions	2,150	3,348	50,851	48,613
Clams	1,558	2,540	1,653	3,508
Crabs	68,950	242,383	81,668	246,292
Lobsters	8,058	36,270	15,192	61,057
Scallops	668	2,808	1,914	6,482
Sea urchins	5,703	42,090	12,290	68,264
Shrimp	22,116	78,043	20,802	67,537
Squid	37,847	25,113	40,212	29,417
Other fish and shellfish	9,182	23,355	23,129	47,023
Canned:				
Salmon	32,900	91,568	40,415	89,720
Sardines	8,555	7,902	8,951	7,823
Abalone	1,459	17,187	2,163	31,291
Crabmeat	250	564	910	1,944
Shrimp	2,014	7,855	2,043	5,506
Squid	6,651	2,890	16,704	8,146
Other fish and shellfish	57,128	55,324	65,271	66,773
Cured:				
Cod	8,283	10,634	3,888	4,046
Salmon	333	1,308	388	1,296
Other	5,103	14,136	22,405	26,261
Roe:				
Herring	18,494	34,479	27,220	30,556
Salmon	17,647	90,147	18,408	72,729
Other	8,813	20,031	27,197	91,686
Other fish and shellfish	541	964	48,516	27,131
Total edible fishery products	*1,060,186*	*2,155,628*	*1,374,012*	*2,282,994*
Nonedible fishery products:				
Meal and scrap	150,262	23,447	103,790	23,791
Fish oils	149,279	21,945	194,795	20,223
Other	-	73,575	-	2,379,834
Total nonedible fishery products	-	*118,967*	-	*2,423,848*
Grand total	-	*2,274,595*	-	*4,706,842*

Note:--Does not include U.S.-flag vessel catches transferred onto foreign vessels in the U.S. EEZ joint venture operations (see page 17).

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 1989

Continent and Country	Edible		Nonedible	Total
	Thousand pounds	- - - - - -Thousand dollars- - - - - -		
North America:				
Canada	120,387	195,820	379,377	575,197
Mexico	11,694	22,036	96,060	118,096
Dominican Republic	1,801	1,108	38,354	39,462
Panama	551	915	29,770	30,685
Bahamas	1,016	1,674	16,823	18,497
Other	8,195	11,595	90,170	101,765
Total	*143,644*	*233,148*	*650,554*	*883,702*
South America:				
Brazil	39	92	19,315	19,407
Venezuela	36	89	15,995	16,084
Chile	163	438	14,132	14,570
Colombia	24	56	12,479	12,535
Bolivia	2	3	12,283	12,286
Other	694	571	30,500	31,071
Total	*958*	*1,249*	*104,704*	*105,953*
Europe:				
European Economic Community:				
United Kingdom	35,252	71,855	119,039	190,894
Netherlands	10,875	16,379	112,014	128,393
France	28,357	53,753	73,740	127,493
Fed. Rep of Germany	5,052	10,320	73,461	83,781
Italy	14,278	21,322	58,464	79,786
Other	53,061	50,001	99,390	149,391
Total	*146,875*	*223,630*	*536,108*	*759,738*
Other:				
Switzerland	834	2,512	110,065	112,577
Sweden	10,868	24,517	8,523	33,040
Norway	6,199	5,959	5,530	11,489
USSR	73,914	4,342	2,495	6,837
Austria	5	19	4,202	4,221
Other	2,579	4,048	10,662	14,710
Total	*94,399*	*41,397*	*141,477*	*182,874*
Asia:				
Japan	853,222	1,603,662	371,533	1,975,195
Hong Kong	7,508	26,023	136,229	162,252
Republic of Korea	63,559	67,087	82,638	149,725
Iraq	-	-	92,722	92,722
Taiwan	23,819	36,796	50,717	87,513
Other	16,940	25,026	173,724	198,750
Total	*965,048*	*1,758,594*	*907,563*	*2,666,157*
Australia and Oceania:				
Australia	12,245	20,187	49,226	69,413
New Zealand	290	562	8,515	9,077
French Polynesia	367	584	915	1,499
Fiji	2,908	575	351	926
Fed Sts. of Micronesia	146	99	427	526
Other	422	216	785	1,001
Total	*16,378*	*22,223*	*60,219*	*82,442*
Africa:				
Rep. of South Africa	1,091	1,030	12,656	13,686
Egypt	5,508	1,558	2,843	4,401
Nigeria	5	11	2,771	2,782
Ghana	-	-	618	618
Mauritius	-	-	599	599
Other	106	154	3,736	3,890
Total	*6,710*	*2,753*	*23,223*	*25,976*
Grand total	*1,374,012*	*2,282,994*	*2,423,848*	*4,706,842*

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

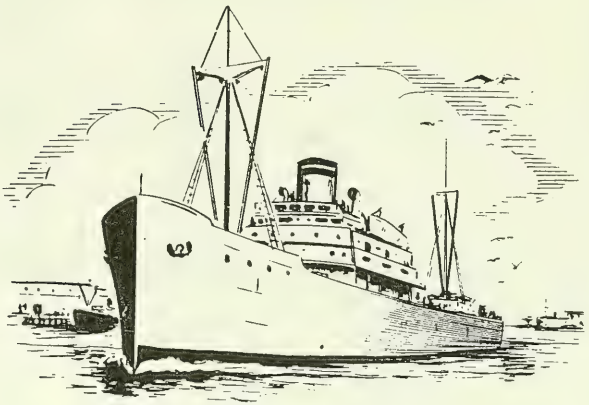
DOMESTIC FISHERY PRODUCTS EXPORTS, 1980-89

Year	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars		
1980	573,896	904,363	101,791	1,006,154
1981	669,272	1,072,765	84,230	1,156,995
1982	657,246	998,873	60,011	1,058,884
1983	601,913	907,688	113,804	1,021,492
1984	574,124	842,349	106,490	948,839
1985	648,146	1,010,268	73,846	1,084,114
1986	735,026	1,289,807	66,289	1,356,096
1987	782,935	1,577,609	82,764	1,660,373
1988	1,060,186	2,155,628	118,967	2,274,595
1989	*1,374,012	*2,282,994	*2,423,848	*4,706,842

*Record.

NOTE:--The increase in the nonedible value for 1989 is due to a re-examination of commodities that are considered to be based on fishery products including fish, shellfish, aquatic plants and animals and any products thereof, including processed and manufactured products.

Source:--U.S. Department of Commerce, Bureau of the Census.



FOREIGN TRADE

EXPORTS

DOMESTIC AND FOREIGN SHRIMP PRODUCTS EXPORTS, 1988 AND 1989

Item	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fresh and frozen:				
Domestic	22,116	78,043	20,802	67,537
Foreign	4,183	14,725	5,889	22,948
Total	*26,299*	*92,768*	*26,691*	*90,485*
Canned:				
Domestic	2,014	7,855	2,043	5,506
Foreign	173	552	85	184
Total	*2,187*	*8,407*	*2,128*	*5,690*
Total:				
Domestic	24,130	85,898	22,845	73,043
Foreign	4,356	15,277	5,974	23,132
Total	*28,486*	*101,175*	*28,819*	*96,175*

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FRESH AND FROZEN SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1988 AND 1989

Country	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada	6,633	25,318	8,525	28,486
Mexico	6,973	21,008	4,987	12,072
Japan	3,548	14,040	2,104	8,824
Sweden	1,240	3,791	753	3,005
Norway	438	1,574	946	2,480
Thailand	31	109	403	2,098
United Kingdom	992	3,708	599	1,869
Hong Kong	739	1,467	639	1,476
Bermuda	174	1,036	250	1,356
Other	1,348	5,992	1,596	5,871
Total	*22,116*	*78,043*	*20,802*	*67,537*

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC CANNED SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1988 AND 1989

Country	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada	778	3,290	657	1,642
Greece	-	-	343	797
Thailand	293	1,238	246	776
China	-	-	132	481
Switzerland	125	444	158	444
Hong Kong	60	168	115	288
Federal Republic of Germany	95	248	104	285
Indonesia	7	32	54	138
Dominican Republic	3	9	27	101
Other	653	2,426	207	554
Total	*2,014*	*7,855*	*2,043*	*5,506*

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

DOMESTIC FRESH AND FROZEN SALMON EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1988 AND 1989

Country	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	238,273	702,199	260,950	627,478
Canada	13,717	28,154	37,513	48,991
France	14,464	40,592	10,290	17,660
United Kingdom	8,859	17,396	8,486	15,753
Sweden	1,426	2,914	2,475	3,555
Netherlands	547	1,632	1,657	2,691
Belgium	1,284	4,909	1,126	2,296
Denmark	3,573	7,597	1,297	2,053
Federal Republic of Germany	1,713	4,246	994	1,644
Other	8,544	16,295	3,769	6,136
Total	*292,400*	*825,934*	*328,557*	*728,257*

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FRESH AND FROZEN SALMON EXPORTS, FILLETS, STEAKS OR PORTIONS, BY COUNTRY OF DESTINATION, 1988 AND 1989

Country	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	531	1,127	6,024	13,444
Canada	581	1,480	888	2,063
France	319	1,204	1,088	1,885
Denmark	2	8	293	595
Switzerland	-	-	113	203
Belgium	80	218	115	194
Sweden	22	66	49	124
Thailand	-	-	42	105
United Kingdom	65	97	58	81
Other	115	257	148	312
Total	*1,715*	*4,457*	*8,818*	*19,006*

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC CANNED SALMON EXPORTS, BY COUNTRY OF DESTINATION, 1988 AND 1989

Country	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
United Kingdom	16,992	51,449	19,896	46,336
Canada	5,172	13,051	7,921	17,538
Australia	6,105	14,988	7,257	15,969
Netherlands	2,548	6,882	2,848	5,308
Belgium	761	2,030	913	1,606
Japan	573	1,636	133	421
Hong Kong	40	90	259	393
New Zealand	90	184	190	366
Israel	-	-	131	234
Other	619	1,258	867	1,549
Total	*32,900*	*91,568*	*40,415*	*89,720*

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

DOMESTIC FRESH AND FROZEN CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1988 AND 1989

Country	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	62,492	220,396	76,105	230,685
Canada	2,174	8,793	3,371	9,547
Republic of Korea	3,804	11,430	1,495	3,653
Federal Republic of Germany	78	259	106	622
Hong Kong	10	46	76	446
United Kingdom	23	88	75	307
Taiwan	18	74	226	270
Italy	51	64	46	172
Mexico	37	50	51	120
Other	263	1,183	117	470
Total	***68,950***	***242,383***	***81,668***	***246,292***

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FRESH AND FROZEN CRABMEAT EXPORTS, BY COUNTRY OF DESTINATION, 1988 AND 1989 (1)

Country	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	-	-	922	3,486
Canada	-	-	277	673
Federal Republic of Germany	-	-	19	197
Sweden	-	-	70	163
Republic of Korea	-	-	96	120
Mexico	-	-	41	119
United Kingdom	-	-	71	107
Hong Kong	-	-	21	95
Taiwan	-	-	129	86
Other	-	-	121	316
Total	-	-	***1,767***	***5,362***

(1) Specific export codes not assigned prior to 1989.
Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FRESH AND FROZEN HERRING EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1988 AND 1989

Country	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	65,660	70,431	48,560	33,549
Republic of Korea	3,352	3,184	6,751	4,921
USSR	-	-	23,120	3,365
Canada	5,454	2,879	2,575	1,109
Mexico	6	6	11	10
Australia	-	-	4	6
Bahamas	-	-	5	4
Colombia	-	-	1	2
Other	125	51	1	1
Total	***74,597***	***76,551***	***81,028***	***42,967***

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

DOMESTIC FISH AND MARINE ANIMAL OIL EXPORTS, BY COUNTRY OF DESTINATION, 1988 AND 1989

Country	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Netherlands	130,978	16,971	164,740	15,838
Republic of South Africa	2,202	302	13,229	1,204
Spain	6,500	1,000	8,079	909
Belgium	2,183	224	5,675	433
Norway	152	516	261	308
Australia	65	72	88	264
Dominican Republic	85	22	606	223
Taiwan	10	27	221	199
Japan	111	234	118	161
Other	6,993	2,577	1,778	684
Total	*149,279*	*21,945*	*194,795*	*20,223*

Source:--U.S. Department of Commerce, Bureau of the Census.

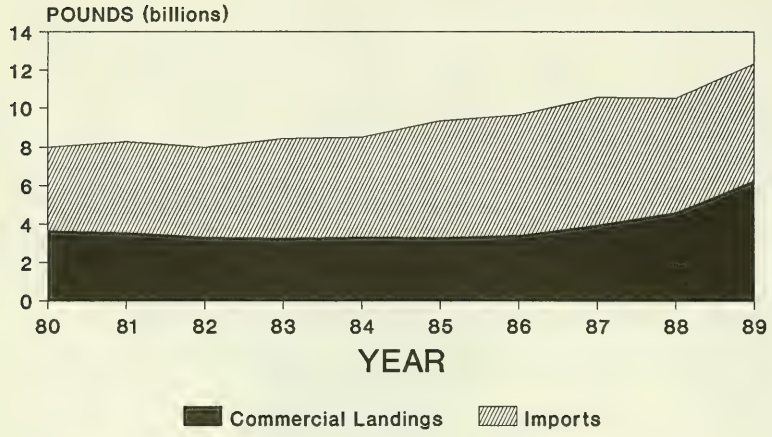
DOMESTIC FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1988 AND 1989

Country	1988		1989	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Taiwan	32,876	5,475	27,196	8,414
Canada	24,734	3,466	10,580	4,828
Japan	6,256	1,010	8,051	3,000
Thailand	2,932	409	1,246	1,281
Hong Kong	260	44	2,110	816
Indonesia	4,334	111	265	765
Mexico	1,214	77	855	723
Ecuador	4,012	492	657	677
Honduras	2,754	302	907	594
Other	70,890	12,061	51,923	2,693
Total	*150,262*	*23,447*	*103,790*	*23,791*

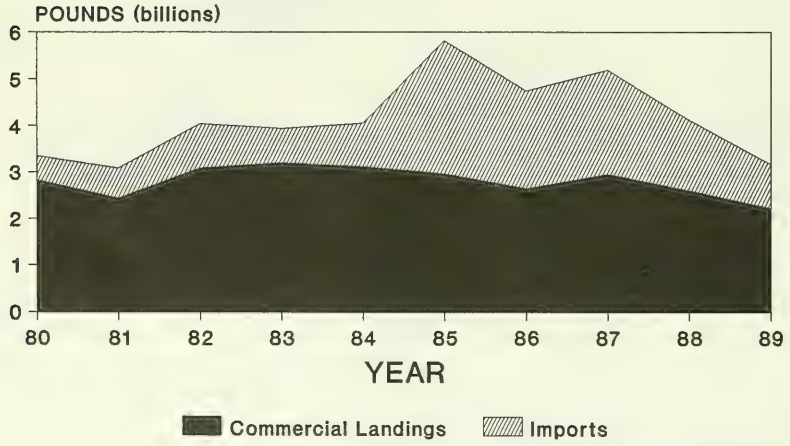
Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. Exports of Edible Fishery Products, 1989
(Total Exports $2,283.0 million)

SUPPLY OF EDIBLE FISHERY PRODUCTS (ROUND WEIGHT) 1980 - 1989



SUPPLY OF INDUSTRIAL FISHERY PRODUCTS (ROUND WEIGHT) 1980 - 1989



U.S. SUPPLY OF EDIBLE AND INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1980-89
(Round weight)

Year	Domestic commercial landings (1)		Imports (2)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1980	6,482	57.1	4,875	42.9	11,357
1981	5,977	52.6	5,376	47.4	11,353
1982	6,367	53.0	5,644	47.0	12,011
1983	6,439	52.1	5,913	47.9	12,352
1984	6,438	51.3	6,114	48.7	12,552
1985	6,258	41.3	8,892	58.7	15,150
1986	6,031	42.0	8,337	58.0	14,368
1987	6,896	43.8	8,848	56.2	15,744
1988	7,192	49.2	7,436	50.8	14,628
1989	*8,463	54.7	7,022	45.3	15,485

(1) Preliminary.
(2) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.
*Record. Records--1968 imports: 13,221,000,000 lb; 1968 total: 17,381,000,000 lb.

Note:--The weights of U.S. landings and imports represent the round (live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in weight of meats (excluding the shell).

U.S. SUPPLY OF EDIBLE COMMERCIAL FISHERY PRODUCTS, 1980-89
(Round weight)

Year	Domestic commercial landings (1)		Imports (2)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1980	3,654	45.6	4,352	54.4	8,006
1981	3,547	42.9	4,720	57.1	8,267
1982	3,285	41.2	4,683	58.8	7,968
1983	3,238	38.5	5,175	61.5	8,413
1984	3,320	39.1	5,178	60.9	8,498
1985	3,294	35.3	6,043	64.7	9,337
1986	3,393	35.3	6,227	64.7	9,620
1987	3,946	37.4	*6,615	62.6	10,561
1988	4,588	43.7	5,917	56.3	10,505
1989	*6,204	50.8	6,064	49.2	*12,268

(1) Preliminary.
(2) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa. *Record.

U.S. SUPPLY OF INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1980-89
(Round weight)

Year	Domestic commercial landings (1)		Imports		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1980	2,828	84.4	523	15.6	3,351
1981	2,430	78.7	656	21.3	3,086
1982	3,082	76.2	961	23.8	4,043
1983	*3,201	81.3	738	18.7	3,939
1984	3,118	76.9	936	23.1	4,054
1985	2,964	51.0	2,849	49.0	5,813
1986	2,638	55.6	2,110	44.4	4,748
1987	2,950	56.9	2,233	43.1	5,183
1988	2,604	63.2	1,519	36.8	4,123
1989	2,259	70.2	958	29.8	3,217

(1) Preliminary. *Record. Records--1968 imports: 9,989,000,000 lb; 1968 total: 11,802,000,000 lb

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1988 AND 1989

Item	Domestic commercial landings		Imports (1)		Total	
	1988	1989	1988	1989	1988	1989
	Million pounds, round weight					
Edible fishery products:						
Finfish	3,306	4,897	4,480	4,838	7,786	9,735
Shellfish	1,282	1,307	1,437	1,226	2,719	2,533
Total	*4,588*	*6,204*	*5,917*	*6,064*	*10,505*	*12,268*
Industrial fishery products:						
Finfish	2,599	2,249	1,519	958	4,118	3,207
Shellfish	5	10	(2)	(2)	5	10
Total	*2,604*	*2,259*	*1,519*	*958*	*4,123*	*3,217*
Total:						
Finfish	5,905	7,146	5,999	5,796	11,904	12,942
Shellfish	1,287	1,317	1,437	1,226	2,724	2,543
Total	*7,192*	*8,463*	*7,436*	*7,022*	*14,628*	*15,485*

See footnotes below.

VALUE OF U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1988 AND 1989

Item	Domestic commercial landings		Imports (1)		Total	
	1988	1989	1988	1989	1988	1989
	Million dollars					
Edible fishery products:						
Finfish	1,872	1,610	2,676	2,859	4,548	4,469
Shellfish	1,490	1,501	2,730	2,598	4,220	4,099
Total	*3,362*	*3,111*	*5,406*	*5,457*	*8,768*	*8,568*
Industrial fishery products:						
Finfish	151	116	(3) 53	(2) 32	203	135
Shellfish	7	11	(2)	(2)	7	11
Total	*158*	*127*	*53*	*32*	*210*	*159*
Total:						
Finfish	2,023	1,726	2,729	2,891	4,752	4,617
Shellfish	1,497	1,512	2,730	2,598	4,227	4,110
Total	*3,520*	*3,238*	*5,459*	*5,489*	*8,979*	*8,727*

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.
(2) Not available.
(3) Includes only quantity and value of fish meal and sea herring for industrial purposes.

Note:--Value of domestic commercial landings is exvessel value.

U.S. SUPPLY OF REGULAR AND MINCED BLOCKS, 1980-89
(Edible weight)

Year	U.S. production		Imports		Total supply
	Quantity	Percent of total supply	Quantity	Percent of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1980	1,205	0.4	336,117	99.6	337,322
1981	1,029	0.3	344,111	99.7	345,140
1982	2,766	0.9	318,966	99.1	321,732
1983	5,155	1.3	384,458	98.7	389,613
1984	2,655	0.8	316,165	99.2	318,820
1985	2,551	0.8	334,060	99.2	336,611
1986	3,919	1.1	363,897	98.9	367,816
1987	13,559	3.3	403,577	96.7	417,136
1988	*44,602	12.8	303,237	87.2	347,839
1989	30,898	9.8	283,278	90.2	314,176

*Record. Records--1979 imports: 408,152,000 lb; 1979 total supply: 413,009,000 lb.

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1980-89
(Edible weight)

Year	U.S. production (1)		Imports		Total supply
	Quantity	Percent of total supply	Quantity	Percent of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1980	202,779	35.5	369,161	64.5	571,940
1981	205,225	33.1	414,163	66.9	619,388
1982	217,644	33.0	440,916	67.0	658,560
1983	230,649	34.4	439,716	65.6	670,365
1984	252,288	34.8	473,594	65.2	725,882
1985	245,525	31.4	536,725	68.6	782,250
1986	279,468	34.2	538,532	65.8	818,000
1987	356,081	36.4	*620,985	63.6	*977,066
1988	378,236	42.2	517,709	57.8	895,945
1989	*389,594	42.9	517,618	57.1	907,212

(1) Includes fillets used to produce blocks. *Record.

U.S. SUPPLY OF GROUNDFISH FILLETS AND STEAKS, 1980-89
(Edible weight)

Year	U.S. production (1)		Imports		Total supply
	Quantity	Percent of total supply	Quantity	Percent of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1980	67,221	23.3	220,954	76.7	288,175
1981	77,092	23.1	257,164	76.9	334,256
1982	70,994	19.4	295,193	80.6	366,187
1983	81,223	21.4	298,170	78.6	379,393
1984	94,943	23.6	307,852	76.4	402,795
1985	84,244	21.6	305,690	78.4	389,934
1986	107,008	27.2	287,099	72.8	394,107
1987	110,688	26.0	*315,418	74.0	*426,106
1988	88,156	25.8	253,187	74.2	341,343
1989	95,893	26.6	265,001	73.4	360,894

(1) Includes fillets used to produce blocks. Species include: cod, cusk, haddock, hake, Atlantic pollock, and Atlantic ocean perch. *Record. Record--1951 U.S. Production: 148,786,000 lb.

U.S. COMMERCIAL LANDINGS AND IMPORTS OF TUNA, 1980-89
(Thousand pounds)

Year	Domestic commercial landings			Imports		
	Atlantic, Gulf Pacific Coast States, and Hawaii	Puerto Rico and American Samoa (1)	Total	Fresh and frozen including cooked loins and discs (2)	Canned	
					In oil	Not in oil
	(Round weight)				Product weight	
1980.....	399,432	100,606	500,038	770,396	446	63,107
1981.....	341,149	148,729	489,878	769,675	268	70,583
1982.....	261,409	211,679	473,088	589,558	213	87,366
1983.....	278,692	307,298	585,990	533,686	197	122,132
1984.....	211,830	371,089	582,919	497,079	277	162,036
1985.....	83,054	433,083	516,137	482,742	303	213,645
1986.....	87,811	469,034	556,845	567,524	301	236,320
1987.....	100,058	526,186	626,244	578,883	329	211,356
1988.....	111,349	497,975	609,324	557,488	318	244,186
1989.....	89,413	452,050	541,463	664,302	422	*347,790

(1) Includes a quantity of fish landed at other ports by U.S.-flag vessels.

(2) Includes landings in American Samoa of foreign-caught fish.

*Record. Records--1976 domestic landings: 664,913,000 lb; 1978 imports: 870,259,000 lb.

U.S. SUPPLY OF CANNED TUNA, 1980-89
(Canned weight)

Year	Domestic production				Imported Canned		Total supply
	Albacore		Lightmeat				
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1980.....	113,605	17.1	488,451	73.4	63,553	9.5	665,609
1981.....	120,983	17.3	505,986	72.5	70,851	10.2	697,820
1982.....	125,113	20.0	413,390	66.0	87,579	14.0	626,082
1983.....	106,175	14.9	484,367	67.9	122,329	17.2	712,871
1984.....	136,745	17.6	477,536	61.5	162,313	20.9	776,594
1985.....	132,001	17.4	412,992	54.4	213,948	28.2	758,941
1986.....	157,341	18.0	479,490	54.9	236,621	27.1	873,452
1987.....	139,888	16.2	514,095	59.4	211,685	24.5	865,668
1988.....	131,114	15.6	467,067	55.4	244,504	29.0	842,685
1989.....	137,284	13.3	548,983	53.1	*348,212	33.6	*1,034,479

*Record. Record--1978 U.S.Pack: 704,793,000 lb.

U.S. SUPPLY OF CANNED SARDINES, 1980-89
(Canned weight)

Year	U.S. pack	Imports			Total	Exports		Total supply
		In oil	Not in oil	Total		Domestic	Foreign	
	Thousand pounds							
1980.....	19,500	18,218	32,960	51,178	70,678	1,839	78	68,761
1981.....	30,586	18,239	37,034	55,273	85,859	1,731	183	83,945
1982.....	18,003	14,119	35,925	50,044	68,047	1,049	195	66,803
1983.....	13,110	17,151	18,096	35,247	48,357	1,013	920	46,424
1984.....	14,650	17,535	27,216	44,751	59,401	889	860	57,652
1985.....	20,016	23,009	34,213	57,222	77,238	529	570	76,139
1986.....	15,601	22,949	30,315	53,264	68,865	271	287	68,307
1987.....	13,116	27,352	37,670	65,022	78,138	999	158	76,981
1988.....	18,611	22,813	30,546	53,359	71,970	8,555	162	63,253
1989.....	13,221	21,771	34,608	56,379	69,600	8,951	119	60,530

*Record--1974 imports: 69,137,000 lb.

U.S. SUPPLY OF CANNED SALMON, 1980-89
(Canned weight)

Year	U.S. pack	Imports	Total	Exports		Total supply
				Domestic	Foreign	
	Thousand pounds					
1980.....	200,003	167	200,170	*74,006	58	126,106
1981.....	214,855	71	214,926	63,494	201	151,231
1982.....	112,100	158	112,258	41,156	111	70,991
1983.....	181,166	277	181,443	54,488	422	126,533
1984.....	198,926	551	199,477	48,963	245	150,269
1985.....	158,943	1,958	160,901	48,240	39	112,622
1986.....	141,756	4,622	146,378	59,434	(1)	86,944
1987.....	105,206	6,652	111,858	35,901	207	75,750
1988.....	88,419	3,528	91,947	32,900	93	58,954
1989.....	197,044	2,943	199,987	40,415	82	159,490

(1) Less than 500 lb. *Records--1936 U.S. pack: 430,328,000 lb; 1959 imports: 31,154,000 lb.

U.S. SUPPLY OF CLAM MEATS, 1980-89
(Meat weight)

Year	U.S. commercial landings					Imports (1)	Exports		Total supply
	Hard	Soft	Surf	Other	Total		Domestic	Foreign	
	Thousand pounds								
1980...	13,370	8,948	37,737	35,314	95,369	6,908	(2)	(2)	102,277
1981...	18,118	8,072	46,100	48,341	120,631	9,520	(2)	(2)	130,151
1982...	12,855	8,021	49,720	37,709	108,305	11,122	(2)	(2)	119,427
1983...	14,186	8,460	55,938	36,821	115,405	11,006	(2)	(2)	126,411
1984...	14,749	7,919	70,243	40,010	132,921	11,113	(2)	(2)	144,034
1985...	16,697	7,865	72,520	53,469	*150,551	12,979	931	40	*162,559
1986...	11,793	5,887	78,749	48,964	145,393	16,880	1,227	16	161,030
1987...	11,418	7,469	60,744	54,726	134,357	*17,641	1,146	11	150,841
1988...	12,371	6,814	63,545	49,010	131,740	14,872	1,449	9	145,154
1989...	9,278	6,829	67,072	54,987	138,166	13,254	1,757	106	149,557

(1) Imports and exports were converted to meat weight by using these conversion factors: 0.40, in shell or shucked; 0.30 canned chowder and juice; and 0.93, other. (2) Not reported. *Record.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF KING CRAB, 1980-89
(Round weight)

Year	U.S. commercial landings	Exports (1)		Total supply
		Frozen	Canned	
	Thousand pounds			
1980	*185,624	50,525	1,988	*133,111
1981	88,054	27,704	704	59,646
1982	38,492	8,958	1,071	28,463
1983	25,581	2,039	346	23,196
1984	17,204	3,521	448	13,235
1985	15,363	4,053	752	10,558
1986	25,909	6,941	267	18,701
1987	29,065	14,656	336	14,073
1988	20,973	9,189	1,332	10,452
1989	26,391	(2)	181	(2)

(1) Domestic merchandise. Converted to round (live) weight by using these conversion factors: 1.75, frozen; and 5.33, canned. (2) unavailable. *Record.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1980-89
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
	Thousand pounds				
1980	121,684	3,732	125,416	71,871	*53,545
1981	107,474	3,460	110,934	68,156	42,778
1982	68,767	3,135	71,902	47,220	24,682
1983	61,077	3,362	64,439	34,415	30,024
1984	48,765	4,992	53,757	31,127	22,630
1985	85,742	6,572	92,314	47,436	44,878
1986	110,000	5,510	115,510	66,925	48,585
1987	113,812	7,706	121,518	92,312	29,206
1988	146,326	6,765	153,091	*122,402	30,689
1989	*164,643	2,575	*167,218	(3)	(3)

(1) Converted to round (live) weight by multiplying canned weight by 5.00. (2) Domestic merchandise converted to round (live) weight by multiplying frozen weight by 2.13 (believed to be mostly sections). (3) Unavailable. *Record.

U.S. SUPPLY OF CANNED CRABMEAT, 1980-89
(Canned weight)

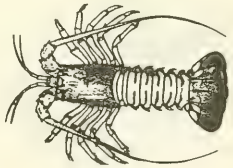
Year	U.S. pack	Percent of total	Imports	Percent of total	Total	Exports	Total supply
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds		
1980	3,916	43.9	5,002	56.1	8,918	373	8,545
1981	1,725	25.6	5,019	74.4	6,744	132	6,612
1982	1,349	19.0	5,737	81.0	7,086	201	6,885
1983	1,435	18.1	6,505	81.9	7,940	65	7,875
1984	1,084	14.8	6,233	85.2	7,317	84	7,233
1985	553	6.8	7,584	93.2	8,137	141	7,996
1986	591	6.3	8,778	93.7	9,369	50	9,319
1987	200	2.4	7,967	97.6	8,167	63	8,104
1988	359	4.4	7,720	95.6	8,079	250	7,829
1989	504	5.7	8,280	94.3	8,784	910	7,874

Records--1966 U.S. pack: 11,002,000 lb; 1939 imports: 13,507,000 lb.

U.S. SUPPLY OF AMERICAN LOBSTERS,1980-89
(Round weight)

Year	U.S. commercial landings		Imports (1)				Total supply
			Quantity			Percentage of total supply	
	Quantity	Percentage of total supply	Fresh and frozen	Canned	Total		
	Thousand pounds	Percent	--------Thousand pounds---------			Percent	Thousand pounds
1980.....	36,952	53.4	22,503	9,699	32,202	46.6	69,154
1981.....	37,494	48.2	26,857	13,459	40,316	51.8	77,810
1982.....	39,445	48.6	26,205	15,480	41,685	51.4	81,130
1983.....	44,206	47.7	43,439	4,977	48,416	52.3	92,622
1984.....	43,967	43.9	54,359	1,783	56,142	56.1	100,109
1985.....	46,152	42.9	57,358	4,029	61,387	57.1	107,539
1986.....	46,053	40.8	65,276	1,633	66,909	59.2	112,962
1987.....	45,558	39.6	66,585	2,956	69,541	60.0	115,099
1988.....	48,643	40.1	69,790	2,756	*72,546	59.9	121,189
1989.....	*52,926	42.4	69,068	2,756	71,824	57.6	*124,750

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 4.50, meat; and 4.64, canned. *Record.



U.S. SUPPLY OF SPINY LOBSTERS,1980-89
(Round weight)

Year	U.S. commercial landings		Imports (1)				Total supply
			Quantity			Percentage of total supply	
	Quantity	Percentage of total supply	Fresh and frozen	Canned	Total		
	Thousand pounds	Percent	--------Thousand pounds---------			Percent	Thousand pounds
1980.....	6,861	5.4	119,817	395	120,212	94.6	127,073
1981.....	6,619	4.9	126,210	978	127,188	95.1	133,807
1982.....	6,438	5.1	120,679	230	120,909	95.9	127,347
1983.....	5,218	3.8	131,102	588	131,690	96.2	136,908
1984.....	6,303	4.1	146,990	79	147,069	95.9	153,372
1985.....	5,311	3.5	148,324	253	148,577	96.5	153,888
1986.....	6,775	4.5	144,933	164	145,097	95.5	151,872
1987.....	5,755	3.8	145,093	613	145,706	96.2	151,461
1988.....	7,166	5.1	131,837	234	132,071	94.9	139,237
1989.....	8,125	10.5	69,130	329	69,459	89.5	77,584

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35, other; and 4.50 canned. *Records--1972 landings: 12,215,000 lb; 1976 imports: 168,095,000; and 1976 total supply: 173,738,000 lb.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF OYSTERS, 1980-89
(Meat weight)

Year	U.S. commercial landings			Imports (2)	Total supply
	Eastern	Pacific (1)	Total		
	Thousand pounds				
1980	44,132	6,694	50,826	21,732	72,558
1981	46,605	6,007	52,612	25,769	78,381
1982	48,820	7,369	56,189	27,529	83,718
1983	46,706	7,342	54,048	30,775	84,823
1984	46,035	8,739	54,774	36,086	90,860
1985	43,085	7,796	50,881	45,926	96,807
1986	39,140	9,629	48,769	50,038	98,807
1987	29,957	9,850	39,807	*52,085	91,892
1988	23,916	7,976	31,892	46,414	78,306
1989	22,074	7,852	29,926	37,662	67,588

(1) Includes Western and Eastern oyster landings for Washington and California. (2) Imports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75, other. *Record. Record - 1908 landings: 152,046,000 lb.

U.S. SUPPLY OF SCALLOP MEATS, 1980-89
(Meat weight)

Year	U.S. commercial landings				Imports	Total supply
	Bay	Calico	Sea	Total		
	Thousand pounds					
1980	968	-	28,752	29,720	20,885	50,605
1981	670	14,641	30,277	45,588	26,227	71,815
1982	1,780	11,010	21,325	34,115	20,860	54,975
1983	2,338	9,606	20,478	32,422	34,280	66,702
1984	1,728	39,330	18,427	*59,485	27,270	*86,755
1985	1,331	12,513	15,829	29,673	42,035	71,708
1986	735	1,616	19,992	22,343	*47,916	70,259
1987	580	8,155	32,038	40,773	39,934	80,707
1988	569	11,868	30,557	42,994	32,039	75,033
1989	274	6,580	33,757	40,611	40,874	81,485

*Record.

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1980-89
(Heads-off weight)

Year	U.S. Commercial landings	Imports (1)	Total	Exports (2)				Total supply
				Fresh and frozen		Canned		
				Domestic	Foreign	Domestic	Foreign	
	Thousand pounds							
1980....	207,869	258,069	465,938	18,777	9,567	11,781	*935	424,878
1981....	218,900	259,112	478,012	20,777	13,687	9,181	78	434,289
1982....	175,613	319,596	495,209	18,350	12,738	6,064	45	458,012
1983....	155,591	421,179	576,770	21,776	6,560	7,573	28	540,833
1984....	188,132	422,340	610,472	15,961	5,069	5,478	83	583,881
1985....	207,239	452,232	659,471	17,708	5,735	3,159	338	632,531
1986....	244,409	492,005	736,414	23,650	2,548	3,967	285	705,964
1987....	223,514	583,030	*806,544	25,938	2,947	4,714	214	*772,731
1988....	203,350	*598,210	801,560	26,097	4,183	4,068	436	766,776
1989....	215,825	563,523	779,348	25,658	6,057	4,127	214	743,292

(1) Imports were converted to heads-off weight by using these conversion factors: 0.63, breaded; 1.00, shell-on; 1.28, peeled raw; 2.52, canned; and 2.40, other. (2) Exports were converted to heads-off weight by using these conversion factors: domestic--fresh and frozen, 1.18 and canned 2.02; foreign--fresh frozen, 1.00 and canned, 2.52.

*Record. Records--1977 U.S. commerical landings: 288,443,000 lb (heads off); 1973 fresh and frozen domestic exports: 44,172,000 lb; 1970 fresh and frozen foreign exports: 14,699,000 lb; and 1973 domestic canned: 20,097,000 lb.

U.S. SUPPLY OF CANNED SHRIMP, 1980-89
(Canned weight)

Year	U.S. pack	Percent of total	Imports	Percent of total	Total	Exports		Total supply
						Domestic	Foreign	
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds			
1980....	15,289	78.3	4,225	21.7	19,514	5,832	*371	13,311
1981....	9,693	68.9	4,383	31.1	14,076	4,545	31	9,500
1982....	6,276	54.1	5,332	45.9	11,608	3,002	18	8,588
1983....	6,723	33.8	13,176	66.2	19,899	3,749	11	16,139
1984....	7,246	34.8	13,580	65.2	20,826	2,712	33	18,081
1985....	4,001	19.0	17,088	81.0	21,089	1,564	134	19,391
1986....	4,596	22.6	15,757	77.4	20,353	1,964	113	18,276
1987....	4,382	20.4	17,132	79.6	21,514	2,334	85	19,095
1988....	4,476	24.0	14,138	76.0	18,614	2,014	173	16,427
1989....	2,623	18.8	11,315	81.2	13,938	2,043	85	11,810

*Record. Records--1973 U.S. pack: 25,228,000 lb; 1970 total: 29,001,000 lb; 1973 domestic exports: 9,949,000 lb.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF FISH MEAL AND SOLUBLES, 1980-89
(Product weight)

Year	Domestic production (1)		Imports (2)		Total
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1980	857,526	89.6	99,074	10.4	956,600
1981	765,640	86.6	118,868	13.4	884,508
1982	899,356	84.2	168,664	15.8	1,068,020
1983	*922,040	87.2	135,880	12.8	1,057,920
1984	877,566	84.0	166,888	16.0	1,044,454
1985	883,196	63.4	510,654	36.6	1,393,850
1986	799,826	68.3	370,548	31.7	1,170,374
1987	911,622	69.8	393,730	30.2	1,305,352
1988	755,520	74.0	265,310	26.0	1,020,830
1989	734,736	81.1	171,112	18.9	905,848

(1) Includes shellfish meal production plus the production of U.S. solubles. (2) Data do not include imports of fish solubles. *Record. Records--1968 imports: 1,712,344,000 lb, 1968 total supply: 2,254,450,000 lb.

Note:--Wet weight of solubles has been converted to dry weight by reducing its poundage by one-half.

U.S. SUPPLY OF FISH MEAL, 1980-89
(Product weight)

Year	Domestic production (1)	Imports	Total	Exports	
				Domestic	Foreign
	Thousand pounds				
1980	723,844	99,074	822,918	170,562	2,942
1981	637,018	118,868	755,886	94,054	5,384
1982	746,854	168,664	915,518	35,880	4,662
1983	763,536	135,880	899,416	154,834	6,848
1984	751,528	166,888	918,416	40,356	1,234
1985	721,682	510,654	1,232,336	69,166	808
1986	702,194	370,548	1,072,742	77,020	952
1987	*786,978	393,730	1,180,962	103,422	664
1988	643,796	265,310	909,106	150,262	3,684
1989	618,382	171,112	789,494	103,790	3,560

(1) Includes shellfish meal. *Record. Records--1968 imports: 1,710,570,000 lb; 1968 total supply 2,180,842,000 lb.

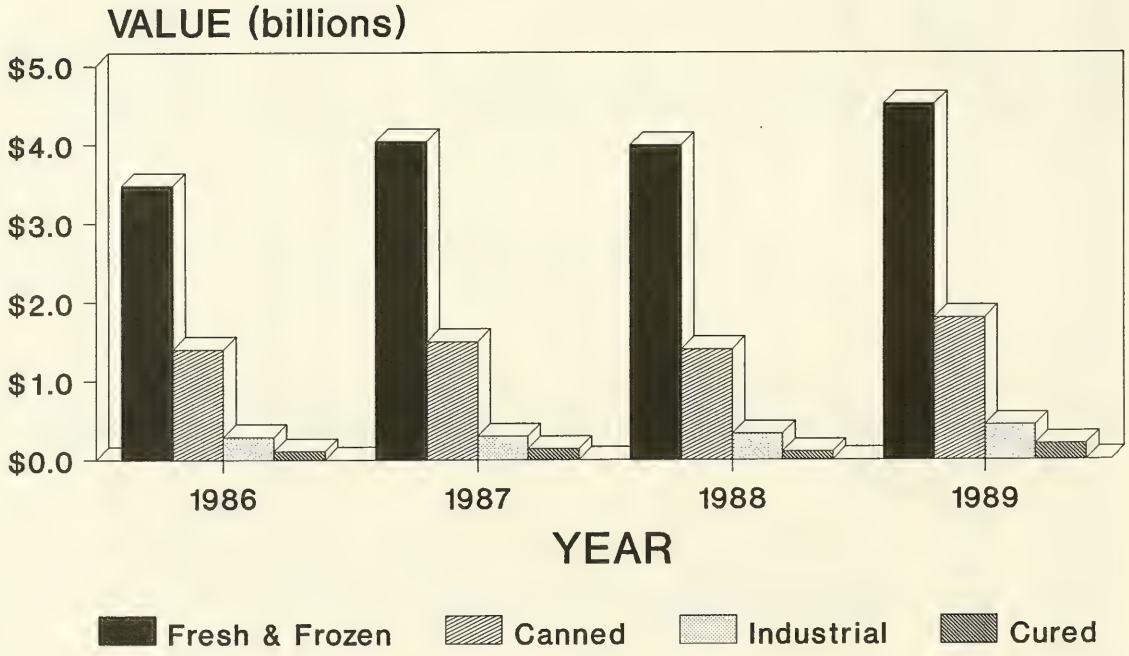
U.S. SUPPLY OF FISH OILS, 1980-89

Year	Domestic production	Imports	Total	Exports	Total supply
	Thousand pounds				
1980	312,511	21,350	333,861	284,009	49,852
1981	184,302	18,255	202,557	238,308	(1)
1982	347,513	12,699	360,212	202,345	157,867
1983	*399,334	15,334	414,668	*404,087	10,581
1984	372,804	13,426	386,230	399,425	(1)
1985	285,077	17,254	302,331	279,080	23,251
1986	336,708	19,212	355,920	192,214	163,706
1987	298,496	25,697	324,193	249,119	75,074
1988	224,733	27,667	252,400	149,279	103,121
1989	225,486	25,449	250,935	194,795	56,140

(1) The 1981 and 1984 exports, which included prior year stocks, exceed domestic production plus imports. *Record.

Note:--Does not include exports of foreign merchandise.

VALUE OF PROCESSED FISHERY PRODUCTS
FROM DOMESTIC CATCH & IMPORTED PRODUCTS
1986 - 1989



PER CAPITA

U.S. CONSUMPTION

Annual per capita consumption of seafood products represents the pounds of edible meat consumed from domestically-caught and imported fish and shellfish adjusted for beginning and ending inventories, and exports, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-89 (1)

Year	Civilian resident population July 1 (2)	Per capita consumption			
		Fresh and frozen (3)	Canned (4)	Cured (5)	Total
	Million persons	Pounds, edible meat			
1909 (6)	90.5	4.3	2.7	*4.0	11.0
1910	92.2	4.5	2.8	3.9	11.2
1911	93.9	4.8	2.8	3.7	11.3
1912	95.3	5.0	2.9	3.4	11.3
1913	97.2	5.3	2.9	3.3	11.5
1914	99.1	5.6	3.0	3.1	11.7
1915	100.5	5.8	2.4	3.0	11.2
1916	102.0	6.0	2.2	2.8	11.0
1917	103.3	6.2	2.0	2.7	10.9
1918	103.2	6.4	2.0	2.5	10.9
1919	104.5	6.4	2.8	2.4	11.6
1920	106.5	6.3	3.2	2.3	11.8
1921	108.5	6.2	2.2	2.1	10.5
1922	110.0	6.1	3.2	2.0	11.3
1923	111.9	6.0	2.9	1.8	10.7
1924	114.1	6.1	3.2	1.7	11.0
1925	115.8	6.3	3.2	1.6	11.1
1926	117.4	6.6	3.4	1.4	11.4
1927	119.0	7.0	3.9	1.3	12.2
1928	120.5	7.1	3.9	1.1	12.1
1929	121.8	6.9	3.9	1.1	11.9
1930	122.9	5.8	3.4	1.0	10.2
1931	123.9	4.9	3.2	0.7	8.8
1932	124.7	4.3	3.4	0.7	8.4
1933	125.4	4.2	3.9	0.6	8.7
1934	126.2	4.3	4.2	0.7	9.2
1935	127.1	5.1	4.7	0.7	10.5
1936	127.9	5.2	*5.8	0.7	11.7
1937	128.6	5.6	5.3	0.9	11.8
1938	129.6	5.2	4.8	0.8	10.8
1939	130.7	5.3	4.7	0.7	10.7
1940	132.1	5.7	4.6	0.7	11.0
1941	132.1	6.3	4.2	0.7	11.2
1942	131.4	5.2	2.9	0.6	8.7
1943	128.0	5.5	1.8	0.6	7.9
1944	127.2	5.5	2.6	0.6	8.7
1945	128.1	6.6	2.6	0.7	9.9
1946	138.9	5.9	4.2	0.7	10.8
1947	143.1	5.8	3.8	0.7	10.3
1948	145.7	6.0	4.4	0.7	11.1
1949	148.2	5.8	4.5	0.6	10.9
1950	150.8	6.3	4.9	0.6	11.8
1951	151.6	6.3	4.3	0.6	11.2
1952	153.9	6.2	4.3	0.7	11.2
1953	156.6	6.4	4.3	0.7	11.4
1954	159.7	6.2	4.3	0.7	11.2
1955	163.0	5.9	3.9	0.7	10.5
1956	166.1	5.7	4.0	0.7	10.4
1957	169.1	5.5	4.0	0.7	10.2
1958	172.2	5.7	4.3	0.6	10.6
1959	175.3	5.9	4.4	0.6	10.9

See notes at end of table.

(Continued)

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-89 (1)

Year	Civilian resident population July 1 (2)	Per capita consumption			
		Fresh and frozen (3)	Canned (4)	Cured (5)	Total
	Million persons	Pounds, edible meat			
1960	178.1	5.7	4.0	0.6	10.3
1961	181.1	5.9	4.3	0.5	10.7
1962	183.7	5.8	4.3	0.5	10.6
1963	186.5	5.8	4.4	0.5	10.7
1964	189.1	5.9	4.1	0.5	10.5
1965	191.6	6.0	4.3	0.5	10.8
1966	193.4	6.1	4.3	0.5	10.9
1967	195.3	5.8	4.3	0.5	10.6
1968	197.1	6.2	4.3	0.5	11.0
1969	199.1	6.6	4.2	0.4	11.2
1970	201.9	6.9	4.5	0.4	11.8
1971	204.9	6.7	4.3	0.5	11.5
1972	207.5	7.1	4.9	0.5	12.5
1973	209.6	7.4	5.0	0.4	12.8
1974	211.6	6.9	4.7	0.5	12.1
1975	213.8	7.5	4.3	0.4	12.2
1976	215.9	8.2	4.2	0.5	12.9
1977	218.1	7.7	4.6	0.4	12.7
1978	220.5	8.1	5.0	0.3	13.4
1979	223.0	7.8	4.8	0.4	13.0
1980	225.6	8.0	4.5	0.3	12.8
1981	227.7	7.8	4.8	0.3	12.9
1982	229.9	7.7	4.3	0.3	12.3
1983	232.0	8.0	4.8	0.3	13.1
1984	234.8	8.5	4.9	0.3	13.7
1985	237.0	9.0	5.1	0.3	14.4
1986	239.4	9.0	5.4	0.3	14.7
1987 (7)	241.7	10.3	5.1	0.3	15.7
1988 (7)	244.1	10.2	4.7	0.3	15.2
1989	246.6	*10.5	5.1	0.3	*15.9

(1) The 1989 per capita consumption should not be directly compared to per capita consumption in the years 1986-88 because calculation methodology was modified in 1989 to reflect surimi production. Surimi was domestically produced during the past three years, but data were unavailable for use in per capita consumption calculation. For 1989 there is an estimate available for surimi production.

(2) Resident population for 1909 to 1929 and civilian resident population for 1930 to date.

(3) Fresh and frozen fish consumption from 1910 to 1928 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish. Domestic landings used in calculating consumption are preliminary after 1977.

(4) Canned fish consumption for 1911 to 1920 is estimated. Beginning in 1921, it is based on production reports, packer stocks, and foreign trade statistics for individual years.

(5) Cured fish consumption for 1910 to 1928 is estimated.

(6) Data for 1909 estimate based on the 1908 census and foreign trade data.

(7) Revised.

*Record.

PER CAPITA

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1969-89

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
	Pounds					
1969	0.7	0.4	2.4	0.5	0.2	4.2
1970	0.7	0.4	2.5	0.5	0.4	4.5
1971	0.7	0.4	2.4	0.5	0.3	4.3
1972	0.7	0.4	2.9	0.5	0.4	4.9
1973	0.4	0.5	3.1	0.5	0.5	5.0
1974	0.3	0.4	3.1	0.5	0.4	4.7
1975	0.3	0.2	2.9	0.5	0.4	4.3
1976	0.3	0.3	2.8	0.4	0.4	4.2
1977	0.5	0.3	2.8	0.6	0.4	4.6
1978	0.6	0.3	3.3	0.5	0.3	5.0
1979	0.5	0.3	3.2	0.5	0.3	4.8
1980	0.5	0.3	2.9	0.5	0.3	4.5
1981	0.5	0.4	3.1	0.5	0.3	4.8
1982	0.5	0.3	2.7	0.4	0.4	4.3
1983	0.5	0.2	3.1	0.6	0.4	4.8
1984	0.6	0.2	3.2	0.4	0.5	4.9
1985	0.5	0.3	3.3	0.5	0.5	5.1
1986 (1)	0.5	0.3	3.6	0.5	0.5	5.4
1987 (1)	0.4	0.3	3.5	0.5	0.4	5.1
1988 (1)	0.3	0.3	3.6	0.4	0.1	4.7
1989	0.3	0.3	3.9	0.4	0.2	5.1

(1) Revised.

NOTE:--From 1970 through 1980, data were revised to reflect the results of the 1980 census. Domestic landings data used in calculating these data are preliminary after 1977.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1969-89

Year	Fillets and steaks (1)	Sticks and portions	Shrimp all preparation
	Pounds (2)		
1969	2.0	1.6	1.3
1970	2.2	1.7	1.5
1971	2.0	1.6	1.4
1972	2.3	1.8	1.4
1973	2.5	2.0	1.4
1974	2.1	1.8	1.5
1975	2.4	1.8	1.4
1976	2.5	2.0	1.5
1977	2.5	2.0	1.6
1978	2.7	2.2	1.5
1979	2.7	*2.2	1.3
1980	2.6	1.9	1.4
1981	2.7	1.8	1.5
1982	2.7	1.7	1.5
1983	2.9	1.8	1.7
1984	3.0	1.8	1.9
1985	3.2	1.8	2.0
1986 (3)	3.3	1.8	2.2
1987 (3)	*3.5	1.7	2.4
1988 (3)	3.0	1.5	2.4
1989	3.0	1.3	2.3

(1) Data include groundfish and other species. Data do not include blocks, but fillets could be made into blocks from which sticks and portions could be produced.
(2) Product weight of fillets and steaks and sticks and portions, edible (meat) weight of shrimp.
(3) Revised.
*Record.

Note:--From 1970 through 1980, data were revised to reflect the results of the 1980 census. Domestic landings data used in calculating these data are preliminary after 1977.

PER CAPITA

U.S. USE

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round weight equivalent basis, without considering beginning or ending stocks, defense purchases, or exports (see page 61).

Per capita use figures are not comparable with per capita consumption data (see page 72). Per capita consumption figures represent edible (for human use) meat weight consumption rather than round weight consumption. In addition, per capita consumption includes allowances for beginning and ending stocks and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1954-89 (1)

Year	Total population including armed forces overseas July 1	Total U.S. supply	Per capita utilization		
			Commercial landings	Imports	Total
	Million persons	Million pounds	Pounds		
1954	163.0	7,593	29.2	17.4	46.6
1955	165.9	7,121	29.0	13.9	42.9
1956	168.9	7,569	31.2	13.6	44.8
1957	172.0	7,164	27.9	13.8	41.7
1958	174.9	7,526	27.1	15.9	43.0
1959	177.8	8,460	28.8	18.8	47.6
1960	180.7	8,223	27.3	18.2	45.5
1961	183.7	9,570	28.2	23.9	52.1
1962	186.5	10,408	28.7	27.1	55.8
1963	189.2	11,434	25.6	34.8	60.4
1964	191.9	12,031	23.7	39.0	62.7
1965	194.3	10,535	24.6	29.6	54.2
1966	196.6	12,469	22.2	41.2	63.4
1967	198.7	13,991	20.4	50.0	70.4
1968	200.7	17,381	20.7	65.9	86.6
1969	202.7	11,847	21.4	37.0	58.4
1970	205.1	11,474	24.0	31.9	55.9
1971	207.7	11,804	24.1	32.7	56.8
1972	209.9	13,849	22.9	43.1	66.0
1973	211.9	10,378	22.9	26.1	49.0
1974	213.9	9,875	23.2	23.0	46.2
1975	216.0	10,164	22.6	24.5	47.1
1976	218.0	11,593	24.7	28.5	53.2
1977	220.2	10,652	23.9	24.4	48.3
1978	222.6	11,509	27.1	24.6	51.7
1979	225.1	11,831	27.9	24.7	52.6
1980	227.7	11,357	28.5	21.4	49.9
1981	229.8	11,353	26.0	23.4	49.4
1982	232.1	12,011	27.5	24.3	51.8
1983	234.2	12,352	27.5	25.2	52.7
1984	237.0	12,552	27.2	25.8	53.0
1985	239.3	15,061	26.2	36.8	63.0
1986	241.6	14,368	25.0	34.5	59.5
1987	243.9	15,744	28.3	36.3	64.6
1988	246.3	14,628	29.2	30.2	59.4
1989	248.8	15,485	34.0	28.2	62.2

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industrial) fishery products on a round weight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.

Note:--From 1970 through 1980, population and per capita utilization data were revised to reflect the results of the 1980 census. Domestic landings data used in calculating these data are preliminary after 1977.

PER CAPITA

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1984-86 AVERAGE

Region and country	Estimated live weight equivalent		Region and country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
North America:			Europe - Continued:		
Canada	22.4	49.4	Ireland	15.1	33.3
United States	18.5	40.8	Italy	17.9	39.5
			Malta	14.0	30.9
Caribbean:			Netherlands	8.5	18.7
Antigua	28.1	61.9	Norway	41.2	90.8
Bahamas	16.3	35.9	Poland	18.7	41.2
Barbados	29.8	65.7	Portugal	43.0	94.8
British Virgin Islands	24.5	54.0	Romania	8.5	18.7
Cayman Islands	28.8	63.5	Spain	33.6	74.1
Cuba	20.9	46.1	Sweden	27.8	61.3
Dominica	16.9	37.3	Switzerland	12.9	28.4
Dominican Republic	6.9	15.2	United Kingdom	18.8	41.4
Grenada	24.9	54.9	Yugoslavia	3.9	8.6
Guadeloupe	49.5	109.1	USSR	28.4	62.6
Haiti	4.4	9.7			
Jamaica	16.6	36.6	Near East:		
Martinique	47.7	105.2	Afghanistan	0.1	0.2
Montserrat	9.3	20.5	Bahrain	22.9	50.5
Netherland Antilles	19.3	42.5	Cyprus	11.4	25.1
St. Christopher-Nevis	26.9	59.3	Egypt	5.6	12.3
Saint Lucia	18.2	40.1	Iran	2.9	6.4
St. Vincent	12.0	26.5	Iraq	1.3	2.9
Trinidad-Tobago	14.6	32.2	Israel	15.9	35.1
			Jordan	3.2	7.1
Latin America:			Kuwait	8.5	18.7
Argentina	6.6	14.6	Lebanon	0.6	1.3
Belize	6.0	13.2	Libya	4.3	9.5
Bolivia	1.4	3.1	Oman	35.1	77.4
Brazil	5.9	13.0	Qatar	10.4	22.9
Chile	19.5	43.0	Saudi Arabia	9.3	20.5
Colombia	3.4	7.5	Sudan	1.3	2.9
Costa Rica	5.0	11.0	Syria	1.5	3.3
Ecuador	13.5	29.8	Turkey	6.7	14.8
El Salvador	2.1	4.6	United Arab Emirates	23.5	51.8
French Guiana	32.3	71.2	Yemen Arab Republic	3.6	7.9
Guatemala	0.3	0.7	Yemen (Aden)	27.4	60.4
Guyana	38.0	83.8			
Honduras	1.8	4.0	Far East:		
Mexico	10.0	22.0	Bangladesh	7.4	16.3
Nicaragua	0.7	1.5	Brunei	41.3	91.0
Panama	14.8	32.6	Burma	16.1	35.5
Paraguay	2.3	5.1	Cambodia	9.3	20.5
Peru	17.6	38.8	China	6.2	13.7
Suriname	13.3	29.3	Hong Kong	45.4	100.1
Uruguay	8.4	18.5	India	3.3	7.3
Venezuela	11.5	25.4	Indonesia	13.6	30.0
			Japan	69.3	152.8
Europe:			Laos	4.9	10.8
Albania	4.5	9.9	Macao	30.2	66.6
Austria	6.7	14.8	Maldives	44.3	97.7
Belgium and Luxembourg	18.1	39.9	Malaysia	36.4	80.2
Bulgaria	8.9	19.6	Mongolia	1.2	2.6
Czechoslovakia	5.7	12.6	Nepal	0.5	1.1
Denmark	21.0	46.3	North Korea	41.3	91.0
Fed. Rep. of Germany	10.4	22.9	Pakistan	1.9	4.2
Finland	35.2	77.6	Philippines	34.1	75.2
France	25.8	56.9	Republic of Korea	47.0	103.6
German Democratic Rep.	13.4	29.5	Singapore	36.0	79.4
Greece	18.4	40.6	Sri Lanka	14.4	31.7
Hungary	4.5	9.9	Thailand	21.7	47.8
Iceland	88.4	194.9	Vietnam	12.6	27.8

See footnote at end of table.

(Continued)

PER CAPITA

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1984-86 AVERAGE - Continued

Region and country	Estimated live weight equivalent	
	Kilograms	Pounds
Africa:		
Algeria	3.5	7.7
Angola	13.3	29.3
Benin	6.9	15.2
Botswana	2.7	6.0
Burkina	2.1	4.6
Burundi	2.2	4.9
Cameroon	16.2	35.7
Cape Verde	26.3	58.0
Central African Republic	5.2	11.5
Chad	17.1	37.7
Comoros	12.0	26.5
Congo (Brazaville)	41.3	91.0
Equatorial Guinea	14.9	32.8
Ethiopia	0.1	0.2
Gabon	25.5	56.2
Gambia	18.0	39.7
Ghana	21.4	47.2
Guinea	6.2	13.7
Guinea-Bissau	2.3	5.1
Ivory Coast	16.7	36.8
Kenya	4.8	10.6
Lesotho	2.1	4.6
Liberia	15.4	34.0
Madagascar	5.6	12.3
Malawi	9.6	21.2
Mali	7.2	15.9
Mauritania	14.4	31.7
Mauritius	14.5	32.0
Morocco	6.8	15.0
Mozambique	3.0	6.6
Namibia	26.6	58.6
Niger	0.5	1.1
Nigeria	6.4	14.1
Republic of South Africa	8.7	19.2
Reunion	24.7	54.5
Rwanda	0.2	0.4
Sao Tome	37.3	82.2
Senegal	24.9	54.9
Seychelles	44.3	97.7
Sierra Leone	16.8	37.0
Somalia	3.6	7.9
Swaziland	0.1	0.2
Tanzania	14.3	31.5
Togo	11.7	25.8
Tunisia	10.4	22.9
Uganda	13.7	30.2
Zaire	10.1	22.3
Zambia	10.3	22.7
Zimbabwe	2.0	4.4
Oceania:		
Australia	16.3	35.9
Fiji	43.4	95.7
French Polynesia	31.2	68.8
New Caledonia	19.3	42.5
New Zealand	12.8	28.2
Paupa New Guinea	18.2	40.1
Tonga	21.1	46.5
Vanuatu	27.0	59.5
Western Samoa	42.9	94.6
World	*12.4*	*27.3*

Note:--Data for most countries are tentative. Aquatic plants are included where applicable.

Source:--Food and Agriculture Organization of the United Nations (FAO) Yearbook of Fishery Statistics, 1988, vol. 67, Rome.

PRICES

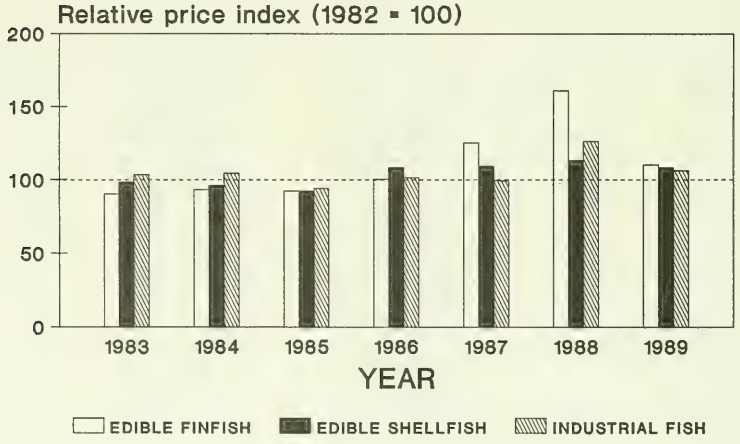
In 1989 the base year for computing the exvessel price index has been changed to 1982 to conform with current government standards. Indexes have been recalculated for 1983-89.

In the table that follows, the exvessel price for any given year was obtained by dividing total value by total quantity by species as reported in the distance from shore tables on pages 6-9. The index for each species or group was obtained by multiplying the current annual price by the total quantity caught in 1982 (the base year). That number was then divided by the 1982 value to obtain the final index:

$$\frac{100 \times \text{Current price} \times \text{1982 quantity}}{\text{1982 Annual Value}} = \text{Index}$$

Each index number calculated for years (other than the base year of 1982) measures price changes from the 1982 reference period when the index equaled 100. A species of fish that sold for $0.75 a pound in 1986 and a $1.00 a pound in 1982 would have an index of 75 in 1986. In 1989, if the price of the same species increased to $1.05, the index in 1989 would be 105.

INDEXES OF EXVESSEL PRICES
1983 - 1989



INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1983-89
(1982=100)

Species	1983 (1)	1984 (1)	1985 (1)	1986 (1)	1987 (1)	1988 (1)	1989
GROUNDFISH ET AL:							
COD	81	77	75	69	88	73	73
HADDOCK	117	142	189	200	257	220	239
POLLOCK:							
ATLANTIC	78	73	72	115	175	150	191
ALASKA	74	77	79	85	110	121	134
FLOUNDERS	98	105	70	64	70	55	66
TOTAL GROUNDFISH, ET AL.	*33*	*98*	*85*	*83*	*101*	*86*	96
HALIBUT	105	62	73	124	135	104	132
SEA HERRING	139	83	144	133	144	162	75
SALMON:							
CHINOOK	70	95	87	90	110	141	85
CHUM	97	89	87	89	113	206	98
PINK	110	111	104	91	147	319	159
SOCKEYE	78	94	114	161	177	258	142
COHO	67	91	89	80	145	198	77
TOTAL SALMON	*81*	*95*	*102*	*121*	*151*	*232*	120
SWORDFISH	97	105	99	115	130	121	119
TUNA:							
ALBACORE	89	90	78	78	111	124	126
BLUEFIN	254	295	160	81	483	587	612
SKIPJACK	84	80	67	68	80	103	86
YELLOWFIN	92	89	76	72	92	114	101
TOTAL TUNA	*92*	*90*	*74*	*71*	*97*	*121*	108
TOTAL EDIBLE FINFISH	*90*	*93*	*92*	*100*	*125*	*161*	110
CLAMS:							
HARD	89	101	92	119	130	164	145
OCEAN QUAHOG	98	98	98	111	106	103	103
SOFT	114	137	150	171	145	150	159
SURF	85	94	103	104	88	88	88
TOTAL CLAMS	*93*	*104*	*105*	*122*	*118*	*134*	127
CRABS:							
BLUE	114	110	111	124	142	153	158
DUNGENESS	135	159	147	138	138	122	118
KING	89	79	88	114	114	135	135
SNOW	83	67	57	72	82	89	92
TOTAL CRABS	*97*	*91*	*91*	*107*	*113*	*124*	126
AMERICAN LOBSTER	105	113	108	114	127	130	122
OYSTERS	95	119	113	137	165	175	198
SCALLOPS:							
BAY	141	127	115	229	140	155	158
CALICO	122	54	97	186	106	102	88
SEA	149	145	129	133	113	115	107
TOTAL SCALLOPS	*145*	*133*	*124*	*146*	*114*	*116*	109
SHRIMP:							
GULF AND SOUTH ATLANTIC	105	84	77	92	89	90	79
OTHER	140	107	95	113	155	102	92
TOTAL SHRIMP	*106*	*85*	*77*	*93*	*92*	*91*	80
TOTAL EDIBLE SHELLFISH	*98*	*96*	*92*	*108*	*109*	*113*	108
TOTAL EDIBLE FISH AND SHELLFISH	*94*	*95*	*92*	*104*	*116*	*135*	109
INDUSTRIAL FISH, MENHADEN	103	104	94	101	99	126	106
ALL FISH AND SHELLFISH	**95**	**96**	**92**	**104**	**115**	**134**	**109**

(1) Revised.

SUMMARY OF 1989 VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR COMMERCIAL MARINE FISHERY PRODUCTS IN THE UNITED STATES (1)

Sector or type of activity	Purchase of fishery inputs	Mark-up of fishery inputs	Total mark-up within sector	Value added as percent of total mark-up	Value added within sector	Value of sales by sector	Value added contribution	Offshore fleet & exported fishery products
	Thousand Dollars	Percentage of Fishery Inputs	Thousand Dollars	Percentage	Thousand Dollars	Thousand Dollars	Percentage of GNP Contribution	Thousand Dollars
Domestic Harvest:								
Edible.....	-	100.0	3,153,978	63.28	1,995,769	3,153,978	11.6	-
Industrial.....	-	100.0	84,462	60.43	51,039	84,462	0.3	-
Harvest not landed in U.S...	-	100.0	326,704	57.76	188,699	326,704	1.1	326,704
Imports, Unprocessed..	2,156,462	-	-	-	-	2,156,462	-	-
Exports, Unprocessed..	-	-	-	-	-	-	-	1,125,442
Primary Wholesale and Processing.....	4,269,460	114.4	4,884,133	57.4	2,805,258	9,153,593	16.3	-
Imports, Processed....	3,383,038	-	-	-	-	3,383,038	-	-
Exports, Processed....	-	-	-	-	-	-	-	1,201,566
Secondary Wholesale and Processing:								
Edible.....	11,187,078	22.8	2,549,235	54.9	1,399,539	13,736,313	8.1	-
Industrial.....	147,987	22.8	33,722	54.9	18,514	181,709	0.1	-
Retail Trade from Food Service.....	6,882,989	177.8	12,239,596	73.4	8,978,115	19,122,584	52.2	-
Retail Trade from Stores.....	6,853,324	31.9	2,186,808	80.5	1,759,700	9,040,132	10.2	-
TOTAL U.S. VALUE ADDED ACTIVITY:					$17,196,633		100.0	
CONSUMERS EXPENDITURES (& WHOLESALE PURCHASES OF INDUSTRIAL PRODUCTS) FOR FISHERY PRODUCTS:						*$28,344,426*		

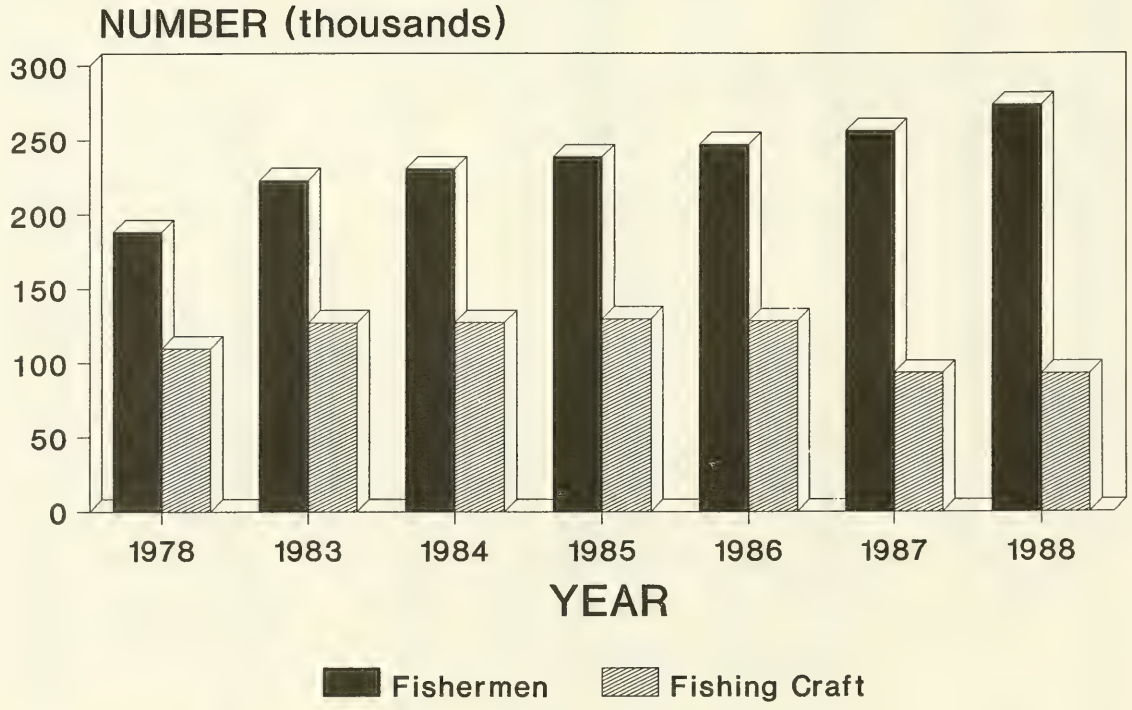
(1) Includes industrial products, landings by U.S.-flag vessels at U.S. and foreign ports, and joint ventures.

Note.-- The table reports the contribution of commercial marine fishing to the national economy as measured by margin, value added, and sales. These measures are consistent with the Bureau of the Census definitions.

Margin or mark-up is the difference between the price paid for the product by the consumer or wholesale purchaser and the dockside or wholesale value for an equivalent weight of the product. (It is assumed that fishermen catch their fish without paying purchase price and therefore the entire dockside or exvessel price is considered margin.) Value added is a measure of the factors added to the total worth of a product at each stage of the production process. It is defined as the gross receipts of firms minus the cost of purchased goods and services needed to fabricate the product. Gross National Products (GNP) is equal to the sum of the value added of all economic entities in the economy. Value added within a sector represents that sector's contribution to GNP.

Value added includes wages, salaries, interest, depreciation, rent, taxes and profit. Consumer expenditures are the final retail value of seafood products sold through stores and food service outlets plus secondary wholesale and processing of industrial products.

NUMBER OF FISHERMEN AND FISHING CRAFT
1978 - 1988



EMPLOYMENT, CRAFT, AND PLANTS

FISHERY EMPLOYMENT, CRAFT, AND ESTABLISHMENTS, VARIOUS YEARS, 1970-88 (1)

Item	1970	1972	1974	1976	1978	1988
	Number					
Persons employed:						
Fishermen	140,538	139,119	161,361	173,610	188,300	273,700
Processing and wholesaling (2)	86,813	91,268	92,118	93,609	99,446	90,005
Total	*227,351*	*230,387*	*253,479*	*267,219*	*287,746*	*363,705*
Craft used:						
Vessels (3)	13,591	14,507	15,891	16,675	18,100	23,300
Motor boats	71,570	69,795	83,436	84,445	90,200	68,000
Other boats	2,000	1,570	1,907	1,501	1,600	1,600
Total	*87,161*	*85,872*	*101,234*	*102,621*	*109,900*	*92,900*
Processors and wholesalers:						
New England States	537	500	483	503	492	888
Mid-Atlantic States	832	793	745	768	763	573
South Atlantic States	432	445	433	522	506	622
Gulf Coast States	817	796	742	726	840	1,187
Pacific States	402	223	356	362	437	727
Alaska	108	322	239	182	178	442
Inland States (4)	564	537	487	511	266	68
Other (5)	43	47	49	43	42	64
Total	*3,735*	*3,663*	*3,534*	*3,617*	*3,524*	*4,571*

(1) Fishermen and craft estimated for 1978 and 1988. Chesapeake Region not available for craft used in 1988.
(2) Average for season. (3) Craft 5 net tons and over as documented by U.S. Coast Guard.
(4) Data estimated for some Inland States. (5) A partial survey was conducted for other areas or States.

PLANTS PRODUCING CANNED FISHERY PRODUCTS, INDUSTRIAL FISHERY PRODUCTS, AND FISH FILLETS AND STEAKS, 1989

Area and State	Canned fishery products	Industrial fishery products	Fish fillets and steaks	Total plants exclusive of duplication
	Number			
New England:				
Maine	10	3	29	42
Massachusetts	-	-	65	65
New Hampshire	-	-	4	4
Rhode Island	-	-	18	18
Connecticut	1	-	2	3
Total	*11*	*3*	*118*	*132*
Mid-Atlantic:				
New York	3	1	17	21
New Jersey	9	-	1	10
Pennsylvania	2	-	1	3
Delaware	2	-	-	2
Maryland	1	1	1	3
Virginia	2	5	4	11
Total	*19*	*7*	*23*	*50*
South Atlantic and Gulf:				
North Carolina	1	4	19	24
South Carolina	1	-	9	10
Georgia	-	2	4	5
Florida	1	2	56	59
Alabama	-	2	3	5
Mississippi	2	2	1	5
Louisiana	5	19	20	44
Total	*10*	*31*	*112*	*152*
Pacific:				
Alaska	51	8	34	85
Washington	20	3	25	44
Oregon	4	-	15	18
California	6	5	27	38
Total	*81*	*16*	*101*	*185*
Hawaii	-	-	9	9
Inland States	1	1	20	21
American Samoa	2	2	-	2
Puerto Rico	5	4	-	5
Grand total	*129*	*64*	*383*	*549*

PROCESSORS AND WHOLESALERS: PLANTS AND EMPLOYMENT, 1988

State and area	Processing			Wholesale			Total		
	Plants	Employment average		Plants	Employment average		Plants	Employment average	
		Season	Year		Season	Year		Season	Year
	-Number-								
New England:									
Maine	106	2,107	2,045	258	721	681	364	2,828	2,726
New Hampshire	11	477	477	7	41	41	18	518	518
Massachusetts	112	3,605	3,598	236	1,223	1,196	348	4,828	4,794
Rhode Island	29	438	438	79	336	312	108	774	750
Connecticut	3	25	24	47	243	240	50	268	264
Total	*261*	*6,652*	*6,582*	*627*	*2,564*	*2,470*	*888*	*9,216*	*9,052*
Mid-Atlantic:									
New York	32	386	385	158	1,227	1,221	190	1,613	1,606
New Jersey	23	837	814	59	337	334	82	1,174	1,148
Pennsylvania	10	945	938	13	208	207	23	1,153	1,145
Delaware	3	532	530	8	25	24	11	557	554
District of Columbia	-	-	-	5	81	81	5	81	81
Maryland	62	2,580	2,437	65	543	504	127	3,123	2,941
Virginia	80	2,741	2,635	55	411	389	135	3,152	3,024
Total	*210*	*8,021*	*7,739*	*363*	*2,832*	*2,760*	*573*	*10,853*	*10,499*
South Atlantic:									
North Carolina	100	2,032	1,906	166	638	530	266	2,670	2,436
South Carolina	20	289	241	85	399	325	105	688	566
Georgia	14	1,296	1,282	66	170	168	80	1,466	1,450
Florida, East Coast	37	1,697	1,650	134	539	535	171	2,236	2,185
Total	*171*	*5,314*	*5,079*	*451*	*1,746*	*1,558*	*622*	*7,060*	*6,637*
Gulf:									
Florida, West Coast	173	4,013	3,979	182	651	641	355	4,664	4,620
Alabama	71	1,799	1,699	25	110	103	96	1,909	1,802
Mississippi	40	1,575	1,588	31	143	137	71	1,718	1,725
Louisiana	183	4,864	4,011	314	1,457	1,307	497	6,321	5,318
Texas	35	1,468	1,264	133	620	594	168	2,088	1,858
Total	*502*	*13,719*	*12,541*	*685*	*2,981*	*2,782*	*1,187*	*16,700*	*15,323*
Pacific:									
California	98	4,661	4,565	311	2,267	2,190	409	6,928	6,755
Oregon	36	1,964	1,946	26	149	142	62	2,113	2,088
Washington	134	3,746	3,575	122	555	522	256	4,301	4,097
Total	*268*	*10,371*	*10,086*	*459*	*2,971*	*2,854*	*727*	*13,342*	*12,940*
Alaska (1), Total	*442*	*31,244*	*23,000*	*(2)*	*(2)*	*(2)*	*442*	*31,244*	*23,000*
Inland States (3), Total	*39*	*460*	*430*	*29*	*120*	*113*	*68*	*580*	*543*
Other Areas or States: (4), Total.	*20*	*11,713*	*11,713*	*44*	*299*	*298*	*64*	*12,012*	*12,011*
Grand Total	*1,913*	*87,494*	*77,170*	*2,658*	*13,513*	*12,835*	*4,571*	*101,007*	*90,005*

(1) Data for Alaska have been estimated. (2) Data not available. (3) Data covers Colorado, Idaho, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nevada, Ohio, Oklahoma, South Dakota, Utah, Wisconsin, and a partial survey conducted for other States. (4) Includes American Samoa, Guam, Hawaii, Northern Marianas, and Puerto Rico.

FISHERY PRODUCTS AND ESTABLISHMENTS INSPECTED IN CALENDAR YEAR, 1989

Region	Edible fishery products						
	Establishments (1)		Amount inspected				
	SIFE (2)	PUFI (3)	Grade A (4)	PUFI (4)	No mark (5)	Lot (6)	Total
	-----Number-----		----------Thousand pounds----------				
Northeast.....	2	45	71,857	159,963	17,790	79,170	328,780
Southeast.....	0	73	16,600	19,158	23,602	16,743	76,103
West.....	4	42	28,975	11,020	39,602	78,691	158,288
Total, 1989.....	*6*	*160*	*117,432*	*190,141*	*80,993*	*174,604*	*563,170*
Total, 1988.....	*7*	*126*	*106,227*	*197,942*	*57,728*	*133,589*	*495,486*

(1) These establishments are inspected under contract and certified as meeting U.S. Department of Commerce (USDC) regulations for construction and maintenance of facilities and equipment, processing techniques, and employment practices.

(2) Fish processing establishments approved for sanitation under the Sanitary Inspected Fish Establishment service (SIFE). Products are not processed under inspection.

(3) Sanitarily inspected fish establishments processing fishery products under USDC inspection.

(4) Products processed under USDC inspection in inspected establishments and labeled with USDC inspection mark as "Packed Under Federal Inspection" (PUFI) and/or "U.S. Grade A."

(5) Products processed under inspection in inspected establishments but bearing no USDC inspection mark.

(6) Lot inspected products checked for quality and condition at the time of examination and located in processing plants, warehouses, cold storage facilities, or terminal markets anywhere in the United States.

Note:--Table may not add due to rounding.

Source:--NMFS, Office of Trade and Industry Services, F/TS4.

THE MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT

The Magnuson Fishery Conservation and Management Act (MFCMA), Public Law 94-265 as amended (Magnuson Act), provides for the conservation and management of all fishery resources within the U.S. Exclusive Economic Zone (EEZ) except highly migratory species of tuna. It also provides for fishery management authority over continental shelf resources and anadromous species beyond the EEZ, except when they are found within a foreign nation's territorial sea or fishery conservation zone (or equivalent), to the extent that such sea or zone is recognized by the United States.

The EEZ extends from the seaward boundary of each of the coastal States (generally 3 nautical miles from shore for all but two States) to 200 nautical miles from shore. The seaward boundaries of Texas, Puerto Rico, and the Gulf coast of Florida are 3 marine leagues (9 nautical miles).

GOVERNING INTERNATIONAL FISHERY AGREEMENTS

Under the Magnuson Act, the U.S. Department of State, with cooperation from the National Oceanic and Atmospheric Administration (NOAA) of the U.S. Department of Commerce, negotiates Governing International Fishery Agreements (GIFAs) with foreign countries wishing to fish within the EEZ. After a GIFA is signed, it is transmitted by the President to the Congress for review.

FOREIGN FISHING PERMITS

Vessels of foreign nations which have GIFAs with the United States may fish in the EEZ for species managed under the Magnuson Act after receiving an allocation of that species and a valid fishing permit. After a GIFA is in force, a foreign nation must submit a permit application to the U.S. Department of State for each vessel to fish in the EEZ. Permit applications must also be made for foreign vessels to receive U.S. harvested fish in the EEZ, and to conduct any other operation in the EEZ in support of the catching, taking, or harvesting of fish. The U.S. Department of State provides copies of the applications to the Congress, the U.S. Coast Guard, the appropriate Regional Fishery Management Councils, and to the Assistant Administrator for Fisheries of the National Marine Fisheries Service (NMFS) with its recommendations. The NMFS also receives recommendations from the Regional Fishery Management Councils and the U.S. Coast Guard, as well as the general public.

The Assistant Administrator for Fisheries reviews recommendations bearing on approval of each application and, after consulting with the U.S. Department of State and the U.S. Coast Guard, may approve an application in whole or in part. Any conditions and restrictions on the approval of an application are sent to the foreign nation through the U.S. Department of State, and must be accepted by the nation before a permit is issued.

FEES

Foreign nations engaged in fisheries subject to U.S. jurisdiction are charged permit fees, poundage fees, a foreign fee surcharge, and an observer fee. An incremental fee may also be charged, which is a percentage of the poundage fee from any country found not to be cooperating in the conservation and development of U.S. fishery resources.

The permit fees in 1989 recovered costs of issuing permits, based upon a standard administrative charge of $354 for each foreign permit application.

Poundage fees are charged for the fish harvested by foreign vessels. Poundage fees vary in relation to the exvessel values of the species harvested by a nation's vessels. Poundage fees are not currently charged for U.S. harvested fish received by foreign vessels. Collections from 1989 poundage fees were expected to continue to decrease as foreign fishing falls to very low levels.

The surcharge is to capitalize a fund to compensate U.S. fishermen operating in the EEZ whose vessels or gear are lost or damaged because of conflicts with foreign vessels. The surcharge on poundage and permit fees was waived in 1989 because the fund was fully capitalized.

The observer fee covers U.S. costs including salary, per diem, transportation, and overhead for U.S. observers on board foreign vessels. The fee is computed on the basis of actual observer trips.

No incremental fees were paid in 1989.

FOREIGN ALLOCATIONS

The total allowable level of foreign fishing (TALFF), if any, for any fishery subject to the exclusive fishery management authority of the United States is that portion of the optimum yield (OY) of such fishery that will not be harvested by vessels of the United States.

Each assessment of OY and each assessment of the anticipated U.S. harvest is reviewed during the fishing season. Adjustments to TALFFs are

based on updated information relating to status of stocks, estimated and actual performance of domestic and foreign fleets, and other relevant factors.

FMPs and PMPs

Under the Magnuson Act, eight Regional Fishery Management Councils are charged with preparing Fishery Management Plans (FMPs) for the fisheries needing management within their areas of authority. After the Councils develop FMPs which cover domestic and foreign fishing efforts, the FMPs are submitted to the Secretary of Commerce for approval and implementation. The Department, through NMFS agents and the U.S. Coast Guard, is responsible for enforcing the law and regulations.

The Secretary of Commerce is also empowered to prepare plans. Where no FMP exists, Preliminary Fishery Management Plans (PMPs), which only cover foreign fishing efforts, are prepared by the Secretary for each fishery for which a foreign nation requests a permit. The Secretary is also empowered to produce an FMP for any fishery that a Council has not duly produced. In this latter case, the Secretary's FMP covers domestic and foreign fishing.

As of December 31, 1989, six Preliminary Fishery Management Plans (PMPs) were in effect, many of which have been amended since first being implemented.

Atlantic Billfishes and Sharks
Foreign Trawl Fisheries of the Northwest Atlantic
Hake Fisheries of the Northwestern Atlantic
Pacific Billfishes and Oceanic Sharks
Bering Sea Herring
Bering Sea Snails

Fishery Management Plans (FMPs)

Under section 304 of the Magnuson Act, all Council prepared FMPs must be reviewed by the Secretary of Commerce. After FMPs have been approved under section 304 of the Magnuson Act, they are implemented by federal regulations, under section 305 of the Act. During 1989, one new FMP was adopted by a Council, submitted for Secretarial review and approved. As of December 31, 1989, there are 30 fishery management plans in place. The FMPs are listed below, and those marked with an asterisk (*) were approved and implemented during 1989. Many FMPs are amended by the Council and submitted for approval under the same Secretarial review process as new FMPs. Many of the FMPs listed have been amended since initial implementation. Those marked with a double asterisk (**) were amended in 1989.

American Lobster (**)
Northeast Multispecies (**)
Atlantic Billfishes
Atlantic Mackerel, Squid, and Butterfish
Atlantic Salmon
Atlantic Sea Scallops (**)
Atlantic Surf Clams and Ocean Quahogs fisheries
Summer Flounder
Swordfish
Gulf and South Atlantic Spiny Lobster (**)
Caribbean Shallow Water Reef Fish
Gulf and South Atlantic Corals
Gulf of Mexico Reef Fish
Gulf of Mexico Shrimp (**)
Gulf of Mexico Stone Crab
Coastal Migratory Pelagics (**)
Caribbean Spiny Lobster
Snapper/Grouper (**)
Northern Anchovy
King and Tanner Crab (*)
Commercial and Recreational Salmon (**)
High Seas Salmon
Pacific Groundfish
Gulf of Alaska Groundfish (**)
Bering Sea and Aleutian Islands Groundfish (**)
Western Pacific Crustaceans
Western Pacific Precious Corals
Western Pacific Bottomfish and Seamount Groundfish
Gulf of Mexico Red Drum
Western Pacific Pelagics

During 1989, 413 regulatory actions were processed via the Federal Register to implement FMP fishery management actions and rules for foreign fishing. This number includes hearing, meeting, and correction notices.

REGIONAL FISHERY MANAGEMENT COUNCILS

Council	States	Telephone Number	Executive Director
NEW ENGLAND	(Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut)	617-231-0422	Douglas G. Marshall Suntaug Office Park 5 Broadway (Rt. 1) Saugus, MA 01906
MID-ATLANTIC	(New York, New Jersey, Delaware, Pennsylvania, Maryland, and Virginia)	302-674-2331	John C. Bryson Federal Bldg., Rm. 2115 300 So. New St. Dover, DE 19901
SOUTH ATLANTIC	(North Carolina, South Carolina, Georgia, and Florida)	803-571-4366	Robert K. Mahood Southpark Bldg., Suite 306 1 Southpark Circle Charleston, SC 29407
GULF OF MEXICO	(Texas, Louisiana, Mississippi, Alabama, and Florida)	813-228-2815	Wayne E. Swingle Lincoln Center, Suite 881 5401 W. Kennedy Blvd. Tampa, FL 33609
CARIBBEAN	(Virgin Islands and the Commonwealth of Puerto Rico)	809-766-5926	Miguel A. Rolon Banco de Ponce Bldg. Suite 1108 Hato Rey, PR 00918
PACIFIC	(California, Washington, Oregon, and Idaho)	503-326-6352	Lawrence D. Six Metro Center, Suite 420 2000 S.W. First Avenue Portland, OR 97201
NORTH PACIFIC	(Alaska, Washington, and Oregon)	907-271-2809	Clarence G. Pautzke 605 W.4th Ave., Rm. 306 P.O. Box 103136 Anchorage, AK 99510
WESTERN PACIFIC	(Hawaii, American Samoa, Guam, and the Northern Marianas Islands)	808-523-1368	Kitty M. Simonds 1164 Bishop St., Rm.1405 Honolulu, HI 96813

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN ALLOCATION: BY COUNTRY AND REGION, 1989

Item	North Atlantic (1)	Washington Oregon, and California	Gulf of Alaska	Eastern Bering Sea and Aleutian Islands (2) (3)	Total Alaska	Grand Total
	Metric tons, round weight					
Optimum yield (OY).....	479,211	-	-	2,003,000	2,003,000	2,482,211
DAH.....	351,100	-	-	2,000,000	2,000,000	2,351,100
DAP.....	269,700	-	-	698,366	698,366	968,066
JVP.....	67,200	-	-	1,301,634	1,301,634	1,368,834
Reserve.....	-	-	-	-	-	-
TALFF.....	118,111	-	-	3,000	3,000	121,111
COUNTRY ALLOCATIONS						
EEC:						
Netherlands.....	7,720	-	-	-	-	7,720
United Kingdom.....	3,131	-	-	-	-	3,131
German Democratic Republic.....	18,859	-	-	-	-	18,859
Poland.....	9,059	-	-	-	-	-
USSR (2).....	12,815	-	-	1,000	1,000	13,815
Total.....	*10,851*	-	-	*1,000*	*1,000*	*11,851*

(1) Optimum Yield includes initial optimum yield for some species-see North Atlantic table.

(2) Includes 3,000 mt TALFF for snails.

(3) Includes 1,000 mt TALFF for snails.

Notes:--DAH=Domestic Annual Harvest; DAP=Domestic Annual Processing; JVP=Joint Venture Processing; TALFF=TOTAL Allowable Level of Foreign Fishing. The Pacific Seamount Region was closed to foreign and domestic fishing.

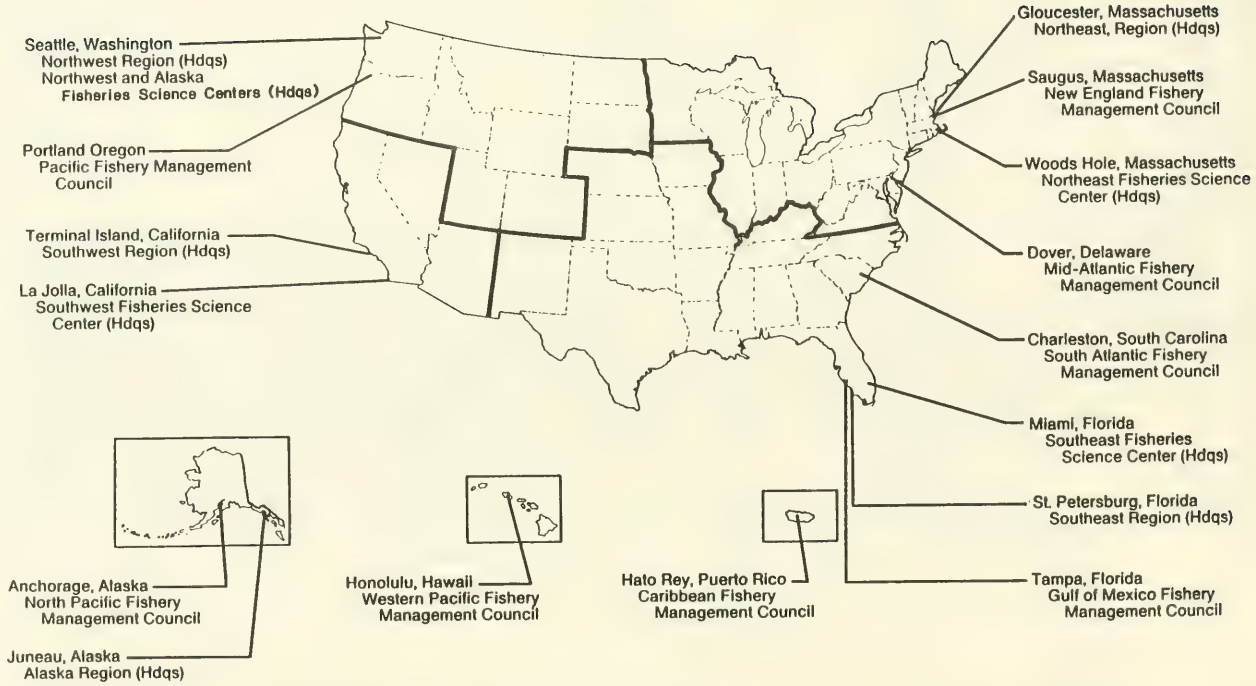
Source:--NMFS, Office of Trade and Industry Services, F/TS2.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS: NORTH ATLANTIC, BY SPECIES AND COUNTRY, 1989 (1)

Item	Red hake	Silver hake	Sharks, except dogfish	Loligo squid (2)	Illex squid (2)	Atlantic mackerel (3) (4)	Butter-fish (2)	River herring	Other finfish	Total
	Metric tons, round weight									
Max Optimum yield (OY)	22,000	43,000	6,150	44,000	30,000	N/A	16,000	8,000	247,000	-
ABC	-	-	-	37,000	22,500	333,000	16,000	-	-	-
Initial Optimum yield	22,000	43,000	6,150	22,020	15,000	101,000	10,041	8,000	247,000	474,211
DAH	11,500	29,600	5,000	20,000	15,000	50,000	10,000	7,800	200,200	349,100
DAP	5,500	7,600	5,000	20,000	14,000	12,000	10,000	7,800	180,000	261,900
JVP	6,000	22,000	-	-	3,000	16,000	-	-	20,200	67,200
Reserve	5,000	-	-	N/A	N/A	N/A	N/A	-	-	5,000
TALFF	5,500	13,400	1,150	20	-	51,000	41	200	46,800	118,111
Country Allocations										
EEC:										
Netherlands	5	15	-	2	-	7,624	4	20	50	7,720
United Kingdom	5	15		2	-	3,034	5	20	50	3,131
German Democratic Republic	5	20	-	3	-	18,636	5	40	150	18,859
Poland	5	15	-	3	-	8,896	5	35	100	9,059
USSR	5	15	-	2	-	12,708	5	30	50	12,815
Total	*25*	*80*	-	*12*	-	*50,898*	*24*	*145*	*400*	*51,584*
Unallocated	5,475	13,320	1,150	8	-	102	17	55	46,400	66,527

(1) OY=Optimum Yield; ABC=Allowable Biological Catch; DAH=Domestic Annual Harvest; and TALFF=Total Allowable Level of Foreign Fishing; Initial Optimum Yield = DAH & TALFF or max optimum yield.
(2) These are the maximum OYs as stated in the FMP; TALFF is for by catch purposes.
(3) DAH includes 14,000 metric tons for recreational catch.
(4) No TALFF released.
Source:--NMFS, Office of Trade and Industry Service, F/TS2.

NMFS Regional Offices
NMFS Fisheries Science Centers
Regional Fishery Management Councils
HDQS Locations



GENERAL ADMINISTRATIVE INFORMATION

UNITED STATES DEPARTMENT OF COMMERCE

14th and E Streets, NW
Washington, D.C. 20230

Mail routing code		*Telephone number*
--	*Secretary of Commerce* Robert A. Mosbacher	202-377-2112
A	*National Oceanic and Atmospheric Administration* John A. Knauss	202-377-3436

NATIONAL MARINE FISHERIES SERVICE

1335 East-West Highway
(Silver Spring Metro Center #1)
Silver Spring, MD 20910

F	*Assistant Administrator for Fisheries* William W. Fox, Jr.	301-427-2239
Fx1	Deputy Assistant Administrator for Fisheries	301-427-2239
Fx2	Program Management Officer	301-427-2239
Fx3	Senior Scientist for Fisheries	301-427-2239
F/MS	Management Services Office	301-427-2245
F/BP	Budget and Planning Office	301-427-2245
F/PC	Policy and Coordination Office	301-427-2245
F/SC	National Seafood Marketing Council (*)	202-673-5237
F/EN	Office of Enforcement	301-427-2300
F/CM	Office of Fisheries Conservation and Management	301-427-2334
F/CM1	Operations Support and Analysis Division	301-427-2353
F/CM2	Plans and Regulations Division	301-427-2343
F/CM3	Recreational and Interjurisdictional Fisheries Division	301-427-2325
F/RE	Office of Research and Environmental Information	301-427-2367
F/RE1	Fisheries Statistics Division	301-427-2328
F/RE2	Data Management Division	301-427-2372
F/RE3	Prediction, Analysis and Monitoring Division	301-427-2363
F/PR	Office of Protected Species	301-427-2332
F/PR1	Permits and Documentation Division	301-427-2289
F/PR2	Protected Species Management Division	301-427-2322
F/PR3	Habitat Policy and Conservation Division	301-427-2347
F/PR4	Conservation Science Division	301-427-2319

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(*) Office is located at 1825 Connecticut Ave., NW (Universal Bldg., South) Room 618, Washington, DC 20235.

NATIONAL MARINE FISHERIES SERVICE
Silver Springs, Md. 20910

Mail routing code		*Telephone number*
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F/TS1	Financial Services Division	301-427-2390
F/TS2	Trade Services Division	301-427-2379
F/TS3	Utilization Research and Services Division	301-427-2358
F/TS4	Inspection Service Division	301-427-2355
F/IA	**Office of International Affairs**	301-427-2272
F/IA1	Organizations and Agreements Division	301-427-2276
F/IA2	International Science, Development and Polar Affairs Division	301-427-2288
LA3-F	**Constituent Affairs Staff - Fisheries**	301-427-2259
LA5-F	**Office of Congressional Affairs - Fisheries**	301-427-2263
PAF	**Office of Public Affairs - Fisheries**	301-427-2370
GCF	**Office of General Counsel - Fisheries**	301-427-2231

REGIONAL FACILITIES

Location	*Telephone number*	
Gloucester, MA	508-281-9300	Northeast Region, One Blackburn Drive Gloucester, MA 01930
Woods Hole, MA	508-548-5123	Northeast Fisheries Science Center Woods Hole, MA 02543
Woods Hole, MA	508-548-5123	Woods Hole Laboratory Woods Hole, MA 02543
Narragansett, RI	401-789-9326	Narragansett Laboratory, Route 7A, P.O. Box 522A Narragansett, RI 02882
Milford, CT	203-878-2459	Milford Laboratory Milford, CT 06460
Highlands, NJ	201-872-0200	Sandy Hook Laboratory, P.O. Box 428 Highlands, NJ 07732
Oxford, MD	301-226-5193	Oxford Laboratory Oxford, MD 21654
Gloucester, MA	508-281-3600 Ext. 237	Gloucester Laboratory, Emerson Ave. Gloucester, MA 01930
Washington, DC	202-357-2550	National Systematics Laboratory 10th and Constitution Ave., N.W. Washington, DC 20560

(Continued)

GENERAL ADMINISTRATIVE INFORMATION

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES - Continued

Location	Telephone number	
St. Petersburg, FL	813-893-3141	Southeast Region, 9450 Koger Blvd. St. Petersburg, FL 33702
Miami, FL	305-361-4284	Southeast Fisheries Science Center, 75 Virginia Beach Dr. Miami, FL 33149
Miami, FL	305-361-4225	Miami Laboratory, 75 Virginia Beach Dr. Miami, FL 33149
Pascagoula, MS	601-762-4591	Mississippi Laboratories, 3209 Frederick St. P.O. Drawer 1207 Pascagula, MS 39567
Panama City, FL	904-234-6541	Panama City Laboratory, 3500 Delwood Beach Rd. Panama City, FL 32407
Galveston, TX	409-766-3500	Galveston Laboratory, 4700 Avenue U Galveston, TX 77550
Charleston, SC	803-762-1200	Charleston Laboratory, 217 Fort Johnson Rd. P.O. Box 12607 Charleston, SC 29412
Beaufort, NC	919-728-3595	Beaufort Laboratory, Pivers Island Beaufort, NC 28516
Seattle, WA	206-526-6150	Northwest Region, 7600 Sand Point Way, N.E. BIN C15700, Bldg. 1 Seattle, WA 98115
Seattle, WA	206-442-1872	Northwest Fisheries Science Center 2725 Montlake Boulevard, East Seattle, WA 98112
Terminal Island, CA	213-514-6196	Southwest Region, 300 South Ferry St. Terminal Island, CA 90731
La Jolla, CA	619-546-7000	Southwest Fisheries Science Center 8604 La Jolla Shores Dr., P.O. Box 271 La Jolla, CA 92038
Honolulu, HI	808-943-1221	Honolulu Laboratory, 2570 Dole St., P.O. Box 3830 Honolulu, HI 96812
Tiburon, CA	415-435-3149	Tiburon Laboratory, 3150 Paradise Dr. Tiburon, CA 94920
Monterey, CA	408-646-3311	Pacific Fisheries Environmental Group P.O. Box 831 Monterey, CA 93942

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NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES - Continued

Location	Telephone number	
Juneau, AK	907-586-7221	Alaska Region, Federal Bldg., Room 453 709 West Ninth St., P.O. Box 21668 Juneau, AK 99802
Seattle, WA	206-526-4000	Alaska Fisheries Science Center, 7600 Sand Point Way, N.E. BIN C15700, Bldg. 4 Seattle, WA 98115
Kodiak, AK	907-487-4961	Kodiak Investigations, P.O. Box 1638 Kodiak, AK 99615
Auke Bay, AK	907-789-6000	Auke Bay Laboratory, P.O. Box 210155 Auke Bay, AK 99821

REFERRAL DIRECTORY - SILVER SPRING, MD OFFICE

FEES AND PERMITS *-- 301-427-2339*

Foreign fishing
Joint ventures

FINANCIAL SERVICES *-- 301-427-2390*

Compensation for loss of gear
Construction, vessels (Tax Deferral Program)
Insurance - vessel seizure by foreign governments
Loans and loan guarantees

FISHERY MANAGEMENT OPERATIONS *-- 301-427-2343*

Artifical reefs
Fishery management plans
Fisheries regulations
State grants

INDUSTRY SERVICES *-- 301-427-2351*

Consumer education and marketing
Exports/Imports licenses
Saltonstall-Kennedy (S-K) grants
Tariffs
Trade issues

INTERNATIONAL FISHERIES *-- 301-427-2272*

Allocation (foreign fishing catches)
Foreign fisheries (general)

LAW ENFORCEMENT AND FINES *-- 301-427-2300*

PROTECTED SPECIES *-- 301-427-2332*

Lacey Act (general information)
Marine Mammal Protection Act (general)
Permits and regulations

RESOURCES INVESTIGATIONS *-- 301-427-2367*

Acid rain and pollution
Aquaculture information
Diseases of fish
Ecology and fish recruitment
Fishing methods
Resource abundance

STATISTICAL DATA SERVICES *-- 301-427-2328*

Commercial fisheries - landings and value
Imports and exports
Joint ventures
Market news reports (general)
Operating units (fishermen and vessels)
Processed fishery products
Recreational fisheries

UTILIZATION RESEARCH *-- 301-427-2358*

Botulism and ciguatera poisoning
Nutrition and quality of fishery products
Safety and product standards
Seafood inspection and identity

GENERAL ADMINISTRATIVE INFORMATION

NATIONAL MARINE FISHERIES SERVICE

NATIONAL FISHERY STATISTICS OFFICES

City	Telephone number	Name and address
		NORTHEAST REGION
NEW ENGLAND		
Portland	207-780-3322	Robert C. Morrill or Bill Trusewich, Federal Court House, 156 Federal St., Rm. 17, P.O. Box 425, DTS, Portland, ME 04101
Rockland	207-594-5969	Peter S. Marckoon, Federal Bldg., 21 Limerock St., Rm. 207, P.O. Box 708, Rockland, ME 04841
(1) Boston	617-223-8012	Louis O'Donnel, 408 Atlantic Ave., Rm. 141, Boston, MA 02210
Boston	617-223-8015	Paul Sheahan, 408 Atlantic Ave., Rm. 141 Boston, MA 02210
Gloucester	508-281-9304	Vito P. Giacalone, Rm. 107, 1 Blackburn Dr. Gloucester, MA 01930
New Bedford	508-999-2452	Dennis E. Main, U.S. Custom House, 2nd and Williams Sts., New Bedford, MA 02740
New Bedford	508-994-9200	Paul O. Swain, Address same as above
Chatham	508-945-5961	Lorraine Belfiore, 29C Stage Harbor Road Chatham, MA 02633
(2) Woods Hole	508-548-5123 Ext. 264	Ronnee L. Schultz, Northeast Fisheries Center, Water St., Woods Hole, MA 02543
Newport	401-847-3115	Lori Lathan, Post Office Bldg., Thames St., Newport, RI 02840
Pt. Judith	401-783-7797	Susan Murphy, 310 Great Island Rd., Rm. 203, P.O. Box 547, Pt. Judith, RI 02882
MIDDLE ATLANTIC		
(1) New York	212-620-4505	Russell Meredith, 201 Varick St., Rm. 1145, New York, NY 10014
Riverhead	516-727-0707	Al Usinger, 518-B E. Main St., P.O. Box 873, Riverhead, L.I., NY 11901
Patchogue	516-475-6988	Fred C. Blossom, 22 W. Main St., P.O. Box 606, Patchoque, L.I., NY 11772
Toms River	201-349-3533	Eugene A. LoVerde, 26 Main St., P.O. Box 143, Toms River, NJ 08753
Cape May	609-884-2113	Patricia A. Yoos, 1382 Lafayette St., P.O. Box 624, Cape May, NJ 08204
CHEAPEAKE		
Oxford	301-226-5420	William E. Brey, Oxford Laboratory, P.O. Box 338, Oxford, MD 21654
Greenbackville	804-824-4725	George E. Ward, Biological Lab., Franklin City, Greenbackville, VA 23356
Hampton	804-723-3369	Anthony Silvia, 55-57 West Queenway Mall, P.O. Box 436, Hampton, VA 23669
		SOUTHEAST REGION
SOUTH ATLANTIC		
Beaufort	919-728-4168	Kenneth C. Harris, Pivers Island, Beaufort Laboratory, Box 500, Beaufort, NC 28516
Manteo	919-473-5929	Glenwood P. Montgomery, Marine Resource Center, P.O. Box 967, Manteo, NC 27954
Charleston	803-762-1200	John C. DeVane, Jr., 217 Ft. Johnson Rd., P.O. Box 12607, James Island, SC 29412
Brunswick	912-265-7080	Daniel G. Foster, Federal Bldg., 801 Gloucester St., Rm. 104, Brunswick, GA 31520
New Smyrna Beach	904-427-6562	Claudia Dennis, 200 Canal St., Room 200 New Smyrna Beach, FL 32168
(2) Miami	305-361-4462	J. Ernest Snell or Guy S. Davenport, 75 Virginia Beach Dr., Miami, FL 33149
Tequesta	407-575-5407	Howard C. Schaefer, 19100 S.E. Federal Highway Tequesta, FL 33469

(Continued)

NATIONAL MARINE FISHERIES SERVICE

NATIONAL FISHERY STATISTICS OFFICES

City	Telephone number	Name and address
GULF		
Key West	305-294-1921	Edward J. Little, Jr., Post Office & Custom House Bldg., P.O. Box 269, Key West, FL 33040
Fort Myers	813-334-4364	Tom Herbert, Federal Bldg., P.O. Box 217, Fort Myers, FL 33902
St. Petersburg	813-893-3151	Betty J. Guisinger, 9450 Koger Blvd., St. Petersburg, FL 33702
Apalachicola	904-653-9500	Richard Dumas, Post Office Bldg., P.O. Drawer 189, Apalachicola, FL 32320
Panama City	904-234-6541	Deborah Fable, 3500 Delwood Beach Rd., Panama City, FL 32401
Bayou La Batre	205-824-4149	Horace M. Flowers, D&H Furniture Bldg., Second Floor 93 S. Wintzell Ave., P.O. Box 591, Bayou La Batre, AL 36509
Pascagoula	601-762-4591	Hermes G. Hague, 3209 Frederic St., SEFC Pascagoula Lab., P.O. Box Drawer 1207, Pascagoula, MS 39567
Cameron	318-762-3887	Vacant, Sabine National Wildlife Refuge, Highway 27 South, 3000 Main Street, Hackberry, LA 70645
Golden Meadow	504-475-7072	Gary J. Rousse, 1614 So. Bayou Dr., Rm. 211, P.O. Box 623, Golden Meadow, LA 70357
Houma	504-872-3321	Kathleen M. Hebert, Post Office Bldg., 425 Lafayette St., Rm. 128, Houma, LA 70360
New Iberia	318-365-1558	Linda F. Picou, 327 S. Iberia St., Suite 8, New Iberia, LA 70560
New Orleans	504-589-6153	Leryes "Lee" Usie, World Trade Center, 2 Canal St., Suite 400-H, New Orleans, LA 70130
(1) New Orleans	504-589-6151	Paul Hebert, World Trade Center, 2 Canal St., Suite 400-H, New Orleans, LA 70130
Aransas Pass	512-758-3787	Thomas N. Scott, Landry Net Shop, Conn Brown Harbor, P.O. Box 1776, Aransas Pass., TX 78336
Brownsville/ Port Isabel	512-548-2516	Kit Doncaster or Edie Lopez, Harbor Masters Bldg., Shrimp Basin, P.O. Box 467, Brownville, TX 78520
Freeport	409-233-4551	Richard A. Allen, 307 East Park, P.O. Box 2533, Freeport, TX 77541
Galveston	409-766-3705	Margot Hightower or John P. Davidson II 4700 Avenue U, Bldg. 308, Galveston, TX 77551
Port Arthur	409-724-4303	Madeline Bailey, Federal Bldg., 2875 75th St., Rm. 113, Port Arthur, TX 77640
		SOUTHWEST REGION
(1) (2) Terminal Isl., CA or Honolulu, HI	213-514-6674	Patricia J. Donley, 300 S. Ferry St., P.O. Box 3266, Terminal Island, CA 90731
		NORTHWEST REGION
(1) (2) Seattle	206-526-6128	John K. Bishop, 7600 Sand Point Way, N.E., Bldg., 1, BIN C15700, Seattle, WA 98115
		ALASKA REGION
(2) Juneau	907-586-7228	Janet E. Smoker, 709 W. Ninth St., Federal Bldg., P.O. Box 21668, Juneau, AK 99802

(1) Regional Market News offices.
(2) Regional headquarters for statistics offices.

PUBLICATIONS

PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE, NOAA

SCIENTIFIC PUBLICATIONS

Information on formal scientific publications by NMFS (such as NMFS journals and Technical Publications) may be obtained from the Scientific Publications Office (F/NWR1), 7600 Sand Point Way N.E., BIN C-15700, Seattle WA 98115. Telephone: 206-526-6107.

CURRENT FISHERY STATISTICS (CFS) SERIES

The reports listed below are in the Current Fishery Statistics (CFS) series. They are statistical bulletins on marine recreational fishing, commercial fishing, and on the manufacture and commerce of fishery products. For further information or to obtain a subscription to these publications, contact the office shown below:

NOAA, National Marine Fisheries Service
Fisheries Statistics Division (F/RE1)
1335 East-West Highway
Silver Spring, MD 20910
Telephone: 301-427-2328

Marine recreational fishing publications are released annually. If you wish a copy of the following publications, check the designated space () and return to the Office shown above.

() Marine Recreational Fishery Statistics Survey, Pacific Coast, 1986 C.F.S. No. 8393

() Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1986 C.F.S. No. 8392

() Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1983-1984 C.F.S. No. 8326

() Marine Recreational Fishery Statistics Survey, Pacific Coast, 1983-1984 C.F.S. No. 8325

() Marine Recreational Fishery Statistics Survey, Pacific Coast, 1981-1982 C.F.S. No. 8323

() Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1979 (Revised)-1980 C.F.S. No. 8322

() Marine Recreational Fishery Statistics Survey, Pacific Coast, 1979-1980 C.F.S. No. 8321

The bulletins shown below cover freezings and holdings, the production of various processed products, and the U.S. foreign trade in fishery products. The annual data shown in the publication are later published in Fishery Statistics of the United States. To order publications from the Government Printing Office (GPO) or the National Technical Service (NTIS), see the two pages that follow.

The following are available annually:

() FF Frozen Fishery Products

() MF Processed Fishery Products: (Includes (MF 1-5) Canned Fishery Products: Production of Fish Fillets and Steaks; Fish Sticks, Fish Portions and Breaded Shrimp; and Industrial Fishery Products.)

() MF-6 Imports and Exports of Fishery Products

The following publication is only available quarterly; monthly data will be available in the annual Processed Fishery Products (MF-1):

() Fish Meal and Oil

LIBRARY INFORMATION

Library information is available from NOAA's library, 6009 Executive Blvd., Rockville, MD 20852. Telephone: 301-443-8334

PUBLICATIONS

PUBLICATIONS AVAILABLE FROM U.S. GOVERNMENT PRINTING OFFICE

TECHNICAL REPORTS

Stock Number

003-009-00522-1 International Trade Administration Report, "1989 U.S. Industrial Outlook" - a one-year forecast on the U.S. fishing industry plus one and five-year forecasts on other U.S. industries. January 1989 . . .$24.00

STATISTICAL REPORTS

003-020-00157-2 Fisheries of the United States, 1987. . .$6.00 each

003-020-00159-9 Fisheries of the United States, 1988. . .$6.50

MISCELLANEOUS REPORTS

003-017-00531-3 Bering, Chukchi and Seas Strategic Assessment: Data Atlas 1988. . .$184.00

003-009-00547-7 United States Industrial Outlook 1989: Prospects for Industries. . .$24.00

003-020-00156-4 Illustrated Key to Penaeoid shrimp of Commerce in the Americas. . .$2.00

003-017-00523-2 Gulf of Mexico Coastal and Ocean Zones Strategic Assessment: Data Atlas . . .$138.00

MARINE LIFE POSTERS

(printed on washable non-glare plasticized paper)

003-020-00055-0 Marine Fishes of the California Current and adjacent waters . . .$5.50

003-020-00065-7 Marine Fishes of the Gulf and South Atlantic. . .$5.50

003-020-00069-0 Fishes of the Great Lakes . . .$8.00

003-020-00087-8 Mollusks and Crustaceans of the Coastal U.S. . .$5.50

SEAFOOD COOKBOOKS

003-020-00052-5 Fish and Shellfish Over the Coals. . .$1.75

003-020-00074-6 A Little Fish Goes a Long Way . . .$1.50

003-020-00145-9 Vitalize Your Life - Discover Seafood Your Guide To Nutrition From the Sea . . .$1.00

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U.S. Government Printing Office
Washington, D.C. 20202
202-783-3238

PUBLICATIONS AVAILABLE FROM NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPARTMENT OF COMMERCE

COMMERCIAL FISHERIES

Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products.

Year	Accession number	Year	Accession number
1966	COM-75-10662	1978	PB-297083
1967	COM-75-10663	1979	PB-80-201593
1968	COM-75-10664	1980	PB-81-241648
1969	COM-75-10665	1981	PB-82-215542
1970	COM-71-50081	1982	PB-83-216473
1971	COM-75-10666	1983	PB-84-195148
1972	COM-73-50644	1984	PB-86-144953
1973	COM-74-50546	1985	PB-87-143145
1974	COM-75-10862	1986	PB-88-164132
1975	PB-253966	1987	PB-88-215173
1976	PB-268662	1988	PB-89-216485
1977	PB-282741		

Fishery Statistics of the United States (Statistical Digest) is a final report on the Nation's commercial fisheries showing more detail than Fisheries of the United States.

Year	Accession number	Year	Accession number
1939	COM-75-11265	1959	COM-75-11062
1940	COM-75-11266	1960	COM-75-11063
1941	COM-75-11267	1961	COM-75-11064
1942	COM-75-11268	1962	COM-75-11065
1943	COM-75-11269	1963	COM-75-11066
1944	COM-75-11270	1964	COM-75-11067
1945	COM-75-11271	1965	COM-75-11068
1946	COM-75-11272	1966	PB-246429
1947	COM-75-11273	1967	PB-246430
1948	COM-75-11274	1968	COM-72-50249
1949	COM-75-11275	1969	COM-75-10887
1950	COM-75-11056	1970	COM-75-10643
1951	COM-75-11053	1971	COM-74-51227
1952	COM-75-11054	1972	COM-75-11430
1953	COM-75-11055	1973	PB-262058
1954	COM-75-11057	1974	PB-277796
1955	COM-75-11058	1975	PB-300625
1956	COM-75-11059	1976	PB-81-163438
1957	COM-75-11060	1977	PB-84-192038
1958	COM-75-11061		

STATE LANDINGS

Maine, 1946-76, PB-271296/1977-79, PB-81-128258.
Massachusetts, 1943-76, PB-275866/1977-79, PB-81-143182.
Rhode Island, 1954-77, PB-287627/1978-79, PB-81-157158.
New York, 1954-76, PB-275449/1977-79, PB-81-134546.

STATE LANDINGS - CONTINUED

New Jersey, 1952-76, PB-275696/1977-79, PB-81-159048.
Maryland, 1960-76, PB-300636/1977-79, PB-81-159003.
Virginia, 1960-76, PB-300637/1977-79, PB-82-151960.
North Carolina, 1955-76, PB-288928/1977-79, PB-82-151978.
South Carolina, 1957-76, PB-289405/1977-79, PB-81-163198.
Georgia, 1956-77, PB-289814/1977-78, PB-81-157166.
Florida, 1950-76, PB-292068.
Alabama, 1950.-77, PB-80-121262/1978, PB-82-168071.
Mississippi, 1951-77, PB-80-121270/1978, PB-82-169079.
Louisiana, 1957-77, PB-300583/1978, PB-82-168063.
Texas, 1949-77, PB-300603/1978-79, PB-82-169004.
Shrimp, 1956-76, PB-80-124696/1977-78, PB-82-156183.
Gulf Coast Shrimp Data, 1958-76, PB-80-126899/1977, PB-82-170390.

PROCESSED FISHERY PRODUCTS ANNUAL SUMMARY

1979	PB-89-215248/AS	1983	PB-89-215271/AS
1980	PB-89-215255/AS	1984	PB-89-215297/AS
1981	PB-89-215263/AS	1985	PB-89-215305/AS
1982	PB-89-215289/AS	1986	PB-89-215313/AS

MARINE RECREATIONAL FISHING

1970 Salt-Water Angling Survey, PB-265416.

Determination of the Number of Commercial and Non-Commercial Recreational Boats in the United States, Their Use, and Selected Characteristics, COM-74-11186.

Participation in Marine Fishing:
Northeastern United States, 1973-74, COM-75-10655.
Southeastern United States, 1974, PB-273160.

Marine Recreational Fishery Statistics Survey:

Atlantic and Gulf Coasts:

1979-80	PB-84-199652
1979 (Revised)-1980	PB-89-102552
1981-1982	PB-89-102560
1983-1984	PB-89-102628
1985	PB-89-102669
1986	PB-89-102701

Pacific Coast:

1981-1982	PB-89-102925/AS
1983-1984	PB-89-102933/AS
1985	PB-89-102941/AS
1986	PB-89-102958/AS

To purchase the reports listed on this page, call or write:

NTIS
ATTN: Order Desk
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Springfield, VA 22161
703-487-4650

PUBLICATIONS

OTHER PUBLICATIONS

Processors and Wholesale Dealers of Fishery Products in U.S. (excludes Alaska) 1988 (shows firm name, address, and major products), PB-90-167545/AS.

Processors and Wholesalers of Alaska Fishery Products, 1978, PB-299246.

Directory of Aquaculture in the Southeast, 1976, PB-2721512.

Aquaculture and Capture Fisheries: Impacts in U.S. Seafood Markets, PB-88-204185/GBA.

Revenues, Costs, and Returns from Vessel Operation in Major U.S. Fisheries, PB-265275.

Development of Value Added, Margin and Expenditures for Marine Fishery Products, PB-89-125108.

Seafood Plant Sanitation, PB-271161.

List of Fishery Cooperatives in U.S. 1980-81, PB-82-107830.

Economic Impacts of the U.S. Commercial Fishing Industry, COM-75-11354.

A Survey of Fish Purchases by Socio-Economic Characteristics - Annual Report, COM-71-00647.

National Marine Fisheries Service: Seafood Consumption, 1973-1974, (a magnetic tape) PB-294725.

National Marine Fisheries Service: Species/ Mercury Data (a magnetic tape) PB-283265.

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ECONOMIC PROFILES

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BASIC ECONOMIC INDICATORS

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Atlantic and Pacific Groundfish, 1932-72, COM-74-11638.

Blue Crab, 1947-72, COM-74-11585.

Clams, 1947-74, COM-75-11089.

Halibut, 1929-72, COM-74-11583.

King and Dungeness Crabs, 1947-72, COM-74-11586.

Menhaden, 1946-72, COM-74-11581.

Oyster, 1947-72, COM-75-10384.

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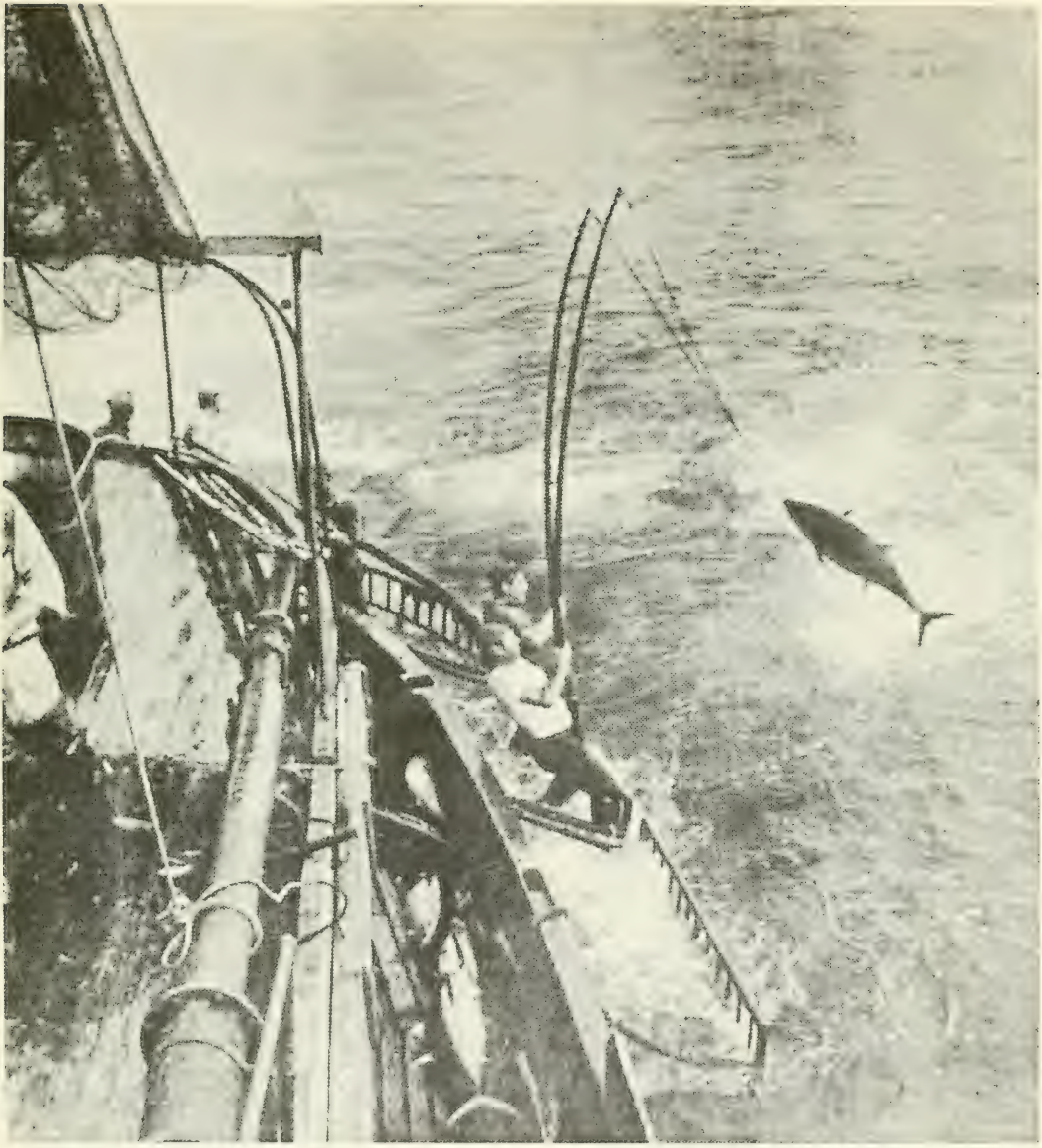

GLOSSARY

ANADROMOUS SPECIES. These are species of fish that mature in the ocean, and then ascend streams to spawn in freshwater. In the Magnuson Act, these species include, but are not limited to, Atlantic and Pacific salmons, steelhead trout, and striped bass. See 42 FR 60682, Nov. 28, 1977.

ANALOG PRODUCTS. These include imitation and simulated crab, lobster, shrimp, scallops, and other fish and shellfish products fabricated from processed fish meat (such as surimi).

BATTER-COATED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a batter containing a leavening agent and mixture of cereal products, flavoring, and other ingredients, and partially cooked in hot oil a short time to expand and set the batter.

BOAT, OTHER. Commercial fishing craft not powered by a motor, e.g., rowboat or sailboat, having a capacity of less than 5 net tons. See motorboat.

BREADED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a non-leavened mixture containing cereal products, flavorings, and other ingredients. Breaded products are sold raw or partially cooked.

BREADED SHRIMP. Peeled shrimp coated with breading. The product may be identified as fantail (butterfly) and round, with or without tail fins and last shell segment; also known as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces whole shrimp or a combination of both without fins or shells.

BUTTERFLY FILLET. Two skin-on fillets of a fish joined together by the belly skin. See fillets.

CANNED FISHERY PRODUCTS. Fish, shellfish, or other aquatic animals packed in cans, or other containers, which are hermetically sealed and heat-sterilized. Canned fishery products may include milk, vegetables, or other products. Most, but not all, canned fishery products can be stored at room temperature for an indefinite time without spoiling.

COMMERCIAL FISHERMAN. An individual who derives income from catching and selling living resources taken from inland or marine waters.

CONSUMPTION OF EDIBLE FISHERY PRODUCTS. Estimated amount of commercially landed fish, shellfish, and other aquatic animals consumed by the civilian population of the United States. Estimates are on an edible-weight basis and have been adjusted for beginning and ending inventories of edible fishery products. Consumption includes U.S. production of fishery products from both domestically caught and imported fish, shellfish, other edible aquatic plants, animals, and imported products and excludes exports and purchases by the U.S. Armed Forces.

CONTINENTAL SHELF FISHERY RESOURCES. These are living organisms of any sedentary species that at the harvestable stage are either (a) immobile on or under the seabed, (b) unable to move except in onstant physical contact with the seabed or subsoil of the continental shelf. The Magnuson Act now lists them as certain abalones, surf clam and ocean quahog, queen conch, Atlantic deep-sea red crab, dungeness crab, stone crab, king crabs, snow (tanner) crabs, American lobster, certain corals, and sponges.

CURED FISHERY PRODUCTS. Products preserved by drying, pickling, salting, or smoking; not including canned, frozen, irradiated, or pasteurized products. Dried products are cured by sun or air-drying; pickled or salted products are those products preserved by applying salt, or by pickling (immersing in brine or in a vinegar or other preservative solution); smoked products are cured with smoke or a combination of smoking and drying or salting.

EDIBLE WEIGHT. The weight of a seafood item exclusive of bones, offal, etc.

EEZ. See U.S. Exclusive Economic Zone.

EUROPEAN ECONOMIC COMMUNITY (EEC). Belgium and Luxembourg, Denmark, Federal Republic of Germany, Greece, France, Ireland, Italy, Netherlands, Portugal, Spain, and United Kingdom.

EXPORT VALUE. The value reported is generally equivalent to f.a.s. (free alongside ship) value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation. The value excludes the cost of loading, freight, insurance and other charges or transportation cost beyond the port of exportation.

EXVESSEL PRICE. Price received by the harvester for fish, shellfish, and other aquatic plants and animals.

"FISH AND CHIPS". This United States fisheries policy links foreign fishing privileges in the U.S. EEZ to foreign country contributions to the development of the U.S. fishing industry. These include reductions of foreign tariff and non-tariff barriers that restrict importation of fishery products, and other cooperation in advancing opportunities for fishery trade. This policy was incorporated into the foreign

nation species allocation process as law by the 1980 amendments to the Magnuson Act.

FISH BLOCKS. Regular fish blocks are frozen blocks or slabs of fillets or pieces of fillets cut or sliced from fish. Minced fish blocks are frozen blocks or slabs of minced flesh produced by a meat and bone separating machine.

FISH FILLETS. The sides of fish that are either skinned or have the skin on, cut lengthwise from the backbone. Most types of fillets are boneless or virtually boneless; some may be labeled as "boneless fillets."

FISH MEAL. A high-protein animal feed supplement made by cooking, pressing, drying, and grinding fish or shellfish.

FISH OIL. An oil extracted from body (body oil) or liver (liver oil) of fish and marine mammals; mostly a byproduct of fish meal production.

FISH PORTION. A piece of fish flesh that is generally of uniform size with thickness of 3/8 of an inch or more and differs from a fish stick in being wider or of a different shape. A fish portion is generally cut from a fish block.

FISH SOLUBLES. A water-soluble protein byproduct of fish meal production. Fish solubles are generally condensed to 50 percent solids and marketed as "condensed fish solubles."

FISH STEAK. A cross-section slice cut from a large dressed fish. A steak is usually about 3/4 of an inch thick.

FISH STICK. An elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next largest dimension. A fish stick is generally cut from a fish block.

FISHERY MANAGEMENT PLAN (FMP). A plan developed by a Regional Fishery Management Council, or the Secretary of Commerce under certain circumstances, to manage a fishery resource in the U.S. EEZ pursuant to the MFCMA (Magnuson Act).

FISHING CRAFT, COMMERCIAL. Boats and vessels engaged in capturing fish, shellfish, and other aquatic plants and animals for sale.

FULL-TIME COMMERCIAL FISHERMAN. An individual who receives more than 50 percent of their annual income from commercial fishing activities, including port activity, such as vessel repair and re-rigging.

GROSS REGISTERED TONNAGE (GRT). The gross registered tonnage of a vessel is the internal cubic capacity of all space in and on the vessel that is permanently enclosed, with the exception of certain permissible exemptions. GRT is expressed in tons of 100 cubic feet.

GROUNDFISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottomfishes, rockfishes, and flatfishes. However, NMFS sometimes uses the term in a narrower sense. In import statistics shown in "Fisheries of the United States," the term applies to the following species: cod, cusk, haddock, hake, Atlantic pollock, and Atlantic ocean perch.

IMPORT VALUE. Value of imports as appraised by the U.S. Customs Service according to the Tariff Act of 1930, as amended. It may be based on foreign market value, constructed value, American selling price, etc. It generally represents a value in a foreign country, and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States.

IMPORT WEIGHT. The weights of individual products as exported, i.e., fillets, steaks, whole, headed, etc.

INDUSTRIAL FISHERY PRODUCTS. Items processed from fish, shellfish, or other aquatic plants and animals that are not consumed directly by humans. These items contain products from seaweeds, fish meal, fish oils, fish solubles, pearl essence, shark and other aquatic animal skins, and shells.

INTERNATIONAL CONVENTION FOR THE NORTHWEST ATLANTIC FISHERIES (ICNAF). This convention, which entered into force on July 3, 1950, was for the investigation, protection, and conservation of the fishery resources of the Northwest Atlantic Ocean. In 1975, there were 18 member nations. The United States withdrew from ICNAF on December 31, 1976, because continued adherence to the convention was deemed incompatible with the extension of U.S. fishery management jurisdiction to 200 miles under the Magnuson Fishery Conservation and Management Act of 1976 (MFCMA). See Northwest Atlantic Fisheries Organization (NAFO).

JOINT VENTURE. An operation authorized under the MFCMA (Magnuson Act) in which a permitted foreign vessel receives fish in the U.S. EEZ from a U.S. vessel. The fish received from the U.S. vessel are part of the U.S. harvest.

LANDINGS, COMMERCIAL. Quantities of fish, shellfish, and other aquatic plants and animals brought ashore and sold. Landings of fish may be in terms of round (live) weight or dressed weight. Landings of crustaceans are generally on a live-weight basis except for shrimp which may be on a heads-on or heads-off basis. Mollusks are generally landed with the shell on, but for some species only the meats are landed, such as sea scallops. Data for all mollusks are published on a meat-weight basis.

MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT, Public Law 94-265, as amended. The Magnuson Act provides a national program for the conservation and management of fisheries to allow for an optimum yield (OY) on a continuing basis and to realize the full potential of the Nation's fishery resources. It established the U.S. Exclusive Economics Zone (EEZ) (formerly the FCZ - Fishery Conservation Zone) and a means to control foreign and certain domestic fisheries through PMPs and FMPs. Within the U.S. EEZ, the United States has exclusive management authority over fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals, birds, and highly migratory species of tuna). The Magnuson Act provides further exclusive management authority beyond the U.S. EEZ for all continental shelf fishery resources and all anadromous species throughout the migratory range of each such species, except during the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such a sea or zone is recognized by the United States.

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption. If part or all of the catch is sold, the monetary returns constitute an insignificant part of the person's income.

MARINE RECREATIONAL CATCH. Quantities of finfish, shellfish and other living aquatic organisms caught, but not necessarily brought ashore, by marine recreational fisherman.

MARINE RECREATIONAL FISHERMEN. Those people who fish in marine waters primarily for recreational purposes. Their catch is primarily for home consumption, although occasionally a part or all of their catch may be sold and enter commercial channels.

MAXIMUM SUSTAINABLE YIELD (MSY). MSY from a fishery is the largest annual catch or yield in terms of weight of fish caught by both commercial and recreational fishermen that can be taken continuously from a stock under existing environmental conditions. A determination of MSY, which should be an estimate based upon the best scientific information available, is a biological measure necessary in the development of optimum yield.

METRIC TONS. A measure of weight equal to 1,000 kilograms, 0.984 long tons, 1.1023 short tons, or 2,204.6 pounds.

MOTORBOAT. A motor-driven commercial fishing craft having a capacity of less than 5 net tons, or not officially documented by the Coast Guard. See "boat, other."

NORTHWEST ATLANTIC FISHERIES ORGANIZATION (NAFO). This convention, which entered into force January 1, 1979, replaces ICNAF. NAFO provides a forum for continued multilateral scientific research and investigation of fishery resources that occur beyond the limits of coastal nations' fishery jurisdiction in the northwest Atlantic, and will ensure consistency between NAFO management measures in this area and those adopted by the coastal nations within the limits of their fishery jurisdiction.

OPTIMUM YIELD (OY). In the MFCMA (Magnuson Act), OY with respect to the yield from a fishery, is the amount of fish that (1) will provide the greatest overall benefit to the United States, with particular reference to food production and recreational opportunities; and (2) is prescribed as such on the basis of maximum sustainable yield from such fishery, as modified by any relevant ecological, economic, or social factors.

PACKAGED FISH. A term used in NMFS publications prior to 1972 to designate fresh or frozen raw fish fillets and steaks.

PART-TIME COMMERCIAL FISHERMAN. An individual who receives less than 50 percent of their annual income from commercial fishing activities.

PER CAPITA CONSUMPTION. Consumption of edible fishery products in the United States divided by the total civilian population. In calculating annual per capita consumption, estimates of the civilian resident population of the United States on July 1 of each year are used. These estimates are taken from current population reports, series P-25, published by the U.S. Bureau of the Census.

PER CAPITA USE. The use of all fishery products, both edible and nonedible, in the United States divided by the total population of the United States.

GLOSSARY

PRELIMINARY FISHERY MANAGEMENT PLAN (PMP). The Secretary of Commerce prepares a PMP whenever a foreign nation with which the United States has made a Governing International Fishery Agreement (GIFA) submits an application to fish in a fishery not managed by an FMP. A PMP is replaced by an FMP as soon as the latter is implemented. A PMP applies only to foreign fishing.

RETAIL PRICE. The price of fish and shellfish sold to the final consumer by food stores and other retail outlets.

ROUND (LIVE) WEIGHT. The weight of fish, shellfish, or other aquatic plants and animals as taken from the water; the complete or full weight as caught. The tables on world catch found in this publication include, in the case of mollusks, the weight of both the shells and the meats, whereas the tables on U.S. landings include only the weight of the meats.

SURIMI. Minced fish meat (usually Alaska pollock) which has been washed to remove fat and undesirable matters (such as blood, pigments, and odorous substances), and mixed with cryoprotectants, such as sugar and/or sorbitol, for a good frozen shelf life.

TOTAL ALLOWABLE LEVEL OF FOREIGN FISHING (TALFF). The TALFF, if any, with respect to any fishery subject to the exclusive fishery management authority of the United States, is that portion of the optimum yield of such fishery which will not be harvested by vessels of the United States, as determined by provisions of the MFCMA.

U.S. EXCLUSIVE ECONOMIC ZONE (EEZ). The MFCMA (Magnuson Act) defines this zone as contiguous to the territorial sea of the United States and extending seaward 200 nautical miles measured from the baseline from which the territorial sea is measured. This was formerly referred to as the FCZ (Fishery Conservation Zone).

U.S.-FLAG VESSEL LANDINGS. Includes landings by all U.S. fishing vessels regardless of where landed as opposed to landings at ports in the 50 United States. These include landings at foreign ports, U.S. territories, and foreign vessels in the U.S. FCZ under joint venture agreements. U.S. law prohibits vessels constructed or registered in foreign countries to land fish catches at U.S. ports.

U.S. TERRITORIAL SEA. A zone extending 3 nautical miles from shore for all states except Texas and the Gulf Coast of Florida where the seaward boundary is 3 marine leagues (9 nautical miles).

USE OF FISHERY PRODUCTS. Estimated disappearance of the total supply of fishery products, both edible and nonedible, on a round-weight basis without considering beginning or ending stocks, exports, military purchases, or shipments to U.S. territories.

VESSEL. A commercial fishing craft having a capacity of 5 net tons or more. These craft are either enrolled or documented by the U.S. Coast Guard and have an official number assigned by that agency.

WHOLESALE FISH AND SHELLFISH PRICES. Those prices received at principal fishery markets by primary wholesalers (processors, importers, and brokers) for customary quantities, free on board (f.o.b.) warehouse.

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Federal Inspection Marks For Fishery Products

FISHERY PRODUCTS ARE VOLUNTARILY INSPECTED. Beef and poultry, as well as many other perishable food items, are federally inspected at various stages of processing to ensure buyers that the product is safe, wholesome, and acceptable. Fishery products have no similar mandatory federal inspection program; however, the U.S. Department of Commerce (USDC) provides a voluntary inspection program for fishery products. Seafood processors, packers, brokers, and users who are interested in having USDC inspect their products may subscribe voluntarily to the program. Users of the service pay for USDC inspection which evaluates their raw materials, ensures the hygienic preparation of products, and certifies the final quality and condition of the product. The USDC inspector functions as an objective observer in evaluating processing techniques and product quality and condition. Products packed in plants under USDC inspection can carry marks for easy consumer identification.

FEDERAL INSPECTION MARKS. Federal inspection marks are official marks approved by the Secretary of Commerce and authorized for use on brand labels of fishery products. When displayed on product labels, these marks signify that inspectors licensed by the USDC inspected, graded, and certified the products as having met all the requirements of inspection regulations, and have been produced in accordance with official U.S. grade standards or approved specifications.

WHAT DO THE INSPECTION MARKS MEAN? The distinctive inspection marks are symbols that signify two distinct but related functions in guiding the consumer to safe, wholesome products produced in a sanitary environment and packed in accordance with uniform quality standards under the supervision of the USDC's voluntary inspection service. The functions symbolized by each mark follow:

"U.S. GRADE" MARK. The "U.S. Grade" mark signifies that:

1. The product is clean, safe, and wholesome.

2. The product is of a specified quality, identified by the appropriate U.S. Grade designation, as determined by a federally-licensed inspector in accordance with established requirements in U.S. Grade Standards.

3. The product was produced in an acceptable establishment with proper equipment and in an appropriate processing environment as required by food control authorities.

4. The product was processed under supervision by federally-licensed food inspectors and packed in accordance with specific Good Manufacturing Practice Requirements.

5. The product is truthfully and accurately labeled as to common or usual name, optional ingredients, and quantity.

"PACKED UNDER FEDERAL INSPECTION" MARK. "Packed Under Federal Inspection" may be displayed as an official mark or as an official statement on the product label. The mark or statement signifies that the property labeled product is clean, safe, and wholesome and has been produced in an acceptable establishment with appropriate equipment under the supervision of federally-licensed inspectors. The product has not been graded as to a specific quality level; rather, it is an acceptable commercial quality as determined by Federal inspectors in accordance with approved standards or specifications.

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