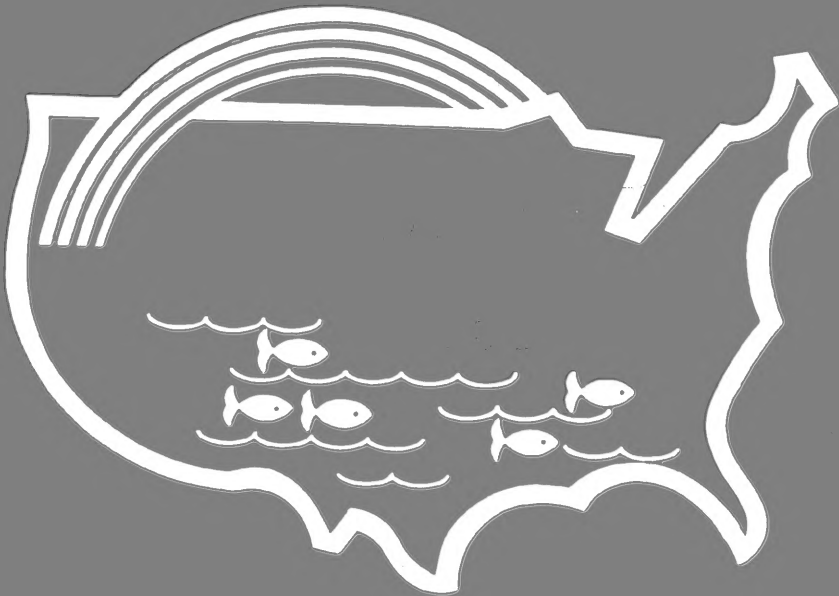


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Current Fishery Statistics No. 9000

Fisheries of the United States, 1990

May 1991



U.S. DEPARTMENT
OF COMMERCE

National Oceanic and
Atmospheric Administration

National Marine
Fisheries Service

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Prepared by:
Fisheries Statistics Division

Mark C. Holliday, Chief
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Silver Spring, MD
May 1991



U.S. DEPARTMENT OF COMMERCE

Robert A. Mosbacher, Secretary

National Oceanic and Atmospheric Administration

John A. Knauss, Under Secretary

National Marine Fisheries Service

William W. Fox, Jr., Assistant Administrator

PREFACE

FISHERIES OF THE UNITED STATES, 1990

This publication is a preliminary report for 1990 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 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 1990. Final data will be published in Fishery Statistics of the United States and other NMFS Current Fishery Statistics publications.

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, New England, Middle Atlantic, and Chesapeake; Tony Frank, Great Lakes Fisheries Commission, Great Lakes States; Ernest Snell, South Atlantic and Gulf States; Patricia J. Donley, California and Hawaii; John K. Bishop, Oregon and Washington; and Jessica A. Garreth, Alaska.

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

A special thanks to Donald FitzGibbon for his assistance in preparing this publication.

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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 9.7 billion pounds (4.4 million metric tons) valued at \$3.6 billion in 1990—an increase of 1.2 billion pounds (564,900 metric tons) in quantity, and \$334.0 million (up 10 percent) in value compared with 1989. Landings of major finfish species such as Atlantic and Pacific cod, Alaska pollock, and flounders increased. The 1990 average exvessel price per pound paid to fishermen was 37 cents compared to the 38 cents they received in 1989. Finfish accounted for 86 percent of total landings, but only 55 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 1.3 billion pounds (595,200 metric tons) valued at \$288.3 million. This was a 40 percent, or 879,400 pounds (398,900 metric tons), decrease in quantity and a \$38.4 million (12 percent) decrease in value compared with 1989. Most of these landings consisted of tuna landed at canneries in Puerto Rico, American Samoa and other foreign ports and joint ventures for hake. Joint venture catches decreased significantly (see below).

Edible fish and shellfish landings in the 50 states were 7.3 billion pounds (3.3 million metric tons) in 1990—an increase of 1.1 billion pounds (518,000 metric tons) compared with 1989. Landings of clams, crabs, flounders, Alaska pollock, and Atlantic and Pacific cod, increased, while shrimp, salmon and tuna landings decreased.

Landings for reduction and other industrial purposes were 2.4 billion pounds (1.1 million metric tons) in 1990—an increase of 5 percent compared with 1989.

The U.S. marine recreational finfish catch in 1990 on the Atlantic and Gulf coast was an estimated 230.9 million fish. These fish weighed approximately 317.7 million pounds and were taken on an estimated 39.8 million fishing trips. The Pacific coast was not surveyed by NMFS in 1990.

JOINT VENTURE CATCH IN THE U.S. EEZ. Joint venture catches by U.S. fishermen unloaded onto foreign vessels were 363,100 metric tons (800,600 pounds) valued at \$51.3 million. This was a 53 percent

decrease in quantity over 1989, when 771,200 metric tons (1.7 billion pounds) were caught, valued at \$112.2 million. The major species were Pacific hake, flounders, and menhaden.

FOREIGN CATCH IN U.S. EEZ. The foreign catch of fish (excluding tunas) and shellfish in the U.S. EEZ was 9,200 metric tons (20.3 million pounds) in 1990, a 75 percent decrease compared with 1989. The North Atlantic U.S. EEZ supplied 100 percent of the total. Atlantic mackerel catches amounted to 8,700 metric tons (94 percent); followed by river herring, 14 metric tons and other miscellaneous species, 523 metric tons.

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 1990, a decrease of 31,000 metric tons (1 percent) compared with 1989. The U.S. share was 99 percent of the total.

WORLD LANDINGS. In 1989, the most recent year for which data are available, world commercial fishery landings were a record 99.5 million metric tons—an increase of 772,000 metric tons (less than 1 percent) compared with 1988. The USSR was the leading nation with 11 percent of the total catch; China, second with 11 percent; Japan, third with 11 percent; followed by Peru with 7 percent; Chile, fifth with 6 percent; and the United States with 6 percent.

PRICES. Price indices declined for 12 of the 33 species groups being tracked, and increased or remained constant for the remaining 21 species groups. The Dungeness crab price index had the largest increase (37 percent) while the American lobster price index had the largest decrease (10 percent). The 1990 annual exvessel price index for edible fish and shellfish increased 4 percent from 1989. The annual index for industrial fish increased 16 percent from 1989.

PROCESSED PRODUCTS. The 1990 estimated value of the domestic production of edible and nonedible fishery products was a record \$7.4 billion, \$512.1 million (7 percent) more than the \$6.9 billion in 1989. The value of edible products was \$7.0 billion—an increase of \$603.0 million (9 percent) compared with 1989. The value of industrial products was \$353.5 million in 1990—a decrease of \$90.9 million (20 percent) compared with 1989.

REVIEW

IMPORTANT FACTS

FOREIGN TRADE. The total import value of edible and nonedible fishery products was \$9.0 billion in 1990—a decrease of \$556.7 million (6 percent) compared with 1989. Imports of edible fishery products (product weight) were 2.9 billion pounds (1.3 million metric tons) valued at \$5.2 billion in 1990—a decrease of 358.4 million pounds (11 percent) in quantity and \$264.7 million (5 percent) in value compared with 1989. Imports of nonedible (i.e., industrial) products were \$3.8 billion—a decrease of \$292.0 million (7 percent) compared with 1989.

Total export value of edible and nonedible fishery products of domestic origin was a record \$5.6 billion in 1990—an increase of \$932.4 million (20 percent) compared with 1989. United States firms exported a record 1.9 billion pounds (871,100 metric tons) of edible products valued at a record \$2.8 billion—an increase of 546.4 million pounds (247.9 metric tons) in quantity and \$496.5 million in value compared with 1989. Exports of nonedible products were valued at a record \$2.9 billion, \$435.9 million more than 1989. The \$51.3 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 13.0 billion pounds (5.9 million metric tons) in 1990—an increase of 699.0 million pounds (6

percent) compared with 1989. The change reflects a decrease of 7 percent in imports, but an increase of 18 percent in domestic commercial landings. Domestic commercial landings for industrial products of 2.4 billion pounds (1.1 million metric tons) were 103.0 million pounds more than 1989. The supply of industrial fishery products was 3.7 billion pounds (1.7 million metric tons) in 1990—an increase of 469.0 million pounds (15 percent) compared with 1989.

PER CAPITA CONSUMPTION. U.S. consumption of fishery products was 15.5 pounds of edible meat per person in 1990, down 0.1 from the revised 1989 per capita consumption of 15.6 pounds (See page 70).

CONSUMER EXPENDITURES. U.S. consumers spent an estimated \$26.7 billion for fishery products in 1990—a decrease of \$1.6 billion (6 percent) compared with 1989. The 1990 total includes \$18.3 billion in expenditures in food service establishments (restaurants, carry-outs, caterers, etc.); \$8.2 billion in retail stores (for home consumption); and \$188.5 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 \$16.6 billion (in value added) to the U.S. Gross National Product—a decrease of \$620.2 million (4 percent) compared with 1989.



REVIEW

OTHER IMPORTANT FACTS

Alaska pollock, with landings of 3.2 billion pounds (1.4 million metric tons), was the most important species in quantity in 1990, accounting for 33 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.

Cods were fourth in quantity but low in value.

Flounders were the fifth most important in quantity, and sixth in value.

Crabs were sixth in quantity and third in value.

Shrimp was second in value and seventh in quantity.

Tuna landings by U.S.-flag vessels at ports outside the continental United States amounted to 451.4 million

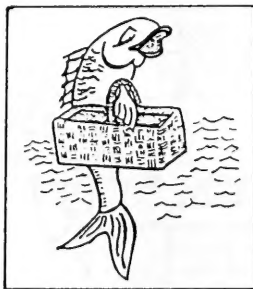
pounds. Other species including menhaden and swordfish were landed at ports outside the United States. Pacific cod, flounders, Atlantic mackerel, menhaden and Pacific hake were species transferred on to foreign vessels in the U.S. EEZ in joint ventures.

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

New Bedford, Massachusetts was the leading U.S. port in terms of value, followed by Dutch Harbor-Unalaska, Kodiak, Naknek-South Naknek, Alaska; and Brownsville-Port Isabel, Texas.

Alaska led all states in volume with landings of 5.4 billion pounds, followed by Louisiana, 1.1 billion; Virginia, 786.8 million; California, 347.1 million; and Massachusetts, 327.9 million pounds.

Alaska led all states in value with \$1.5 billion, followed by Massachusetts, \$303.0 million; Louisiana, \$263.5; Texas, \$182.4; and Florida, \$170.5 million.



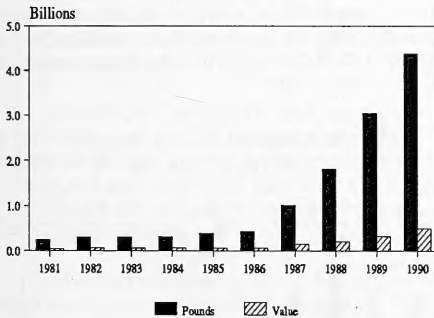
REVIEW

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 4.4 billion pounds valued at \$497.1 million--an increase of 44 percent in quantity compared with 1989.

Landings of Alaska pollock increased 34 percent to 3.2 billion pounds, more than three times higher than the 1985-1989 5-year average. Landings of Pacific cod were 544.2 million pounds -- an increase of 46 percent from 372.1 million pounds in 1989. Pacific hake (whiting) landings were 21.2 million pounds (up 28 percent from 1989) valued at \$1.2 million (up 12 percent from 1989). The 1990 landings of Pacific hake were slightly below the 5-year average. Landings of rockfishes were 170.5 million pounds (28 percent higher than 1989) valued at \$40.5 million. The 1990 rockfish landings were 55 percent higher than the 5-year average.

Trend in Commercial Landings, 1981-1990
Alaska Pollock, Other Pacific Trawl Fish



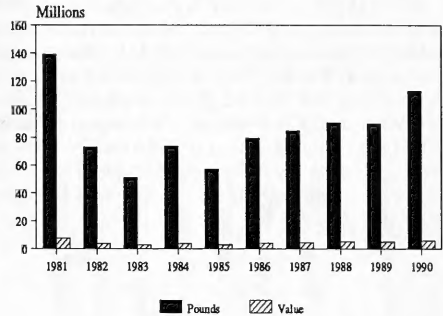
ANCHOVIES. U.S. landings of anchovies were 13.2 million pounds--a decrease of 200,000 pounds (1 percent) compared with 1989. Almost all the landings were used for bait, less than one percent went into animal food.

HALIBUT. U.S. landings of Atlantic and Pacific halibut were 70.5 million pounds (round weight) valued at \$96.7 million--a decrease of 4.7 million pounds (6 percent), but an increase of \$11.6 million (14 percent) in value compared with 1989. The Pacific fishery accounted for all but

35,000 pounds of the 1990 total catch. The average exvessel price per pound in 1990 was \$1.37 compared with \$1.13 cents in 1989.

HERRING, SEA. U.S. commercial landings of sea herring were 221.2 million pounds valued at 37.9 million--an increase of 12.2 million pounds (6 percent) in quantity and \$8.5 million (29 percent) in value compared with 1989. Landings of Atlantic sea herring were 113.1 million pounds valued at \$5.7 million--an increase of 23.4 pounds (26 percent) in quantity and \$705,000 (14 percent) in value compared with 1989.

Trend in Commercial Landings, 1981-1990
Atlantic Sea Herring



Landings of Pacific sea herring were 108.1 million pounds valued at \$32.2 million--a decrease of 11.2 million pounds (9 percent) in quantity, but an increase of \$7.8 million (32 percent) in value compared with 1989. Alaskan landings were 89.6 million pounds valued at \$24.0 million--a decrease of 7.3 million pounds (8 percent) and \$5.3 million (28 percent) compared with 1989.

JACK MACKEREL. Landings of jack mackerel in 1990 were 9.0 million pounds valued at \$535,000 a decrease of 19.5 million pounds (68 percent) in quantity and \$1.4 million (72 percent) in value compared with 1989. The 1990 average exvessel price per pound was 6 cents.

MACKEREL ATLANTIC. U.S. landings of Atlantic mackerel were 23.0 million pounds valued at \$3.8 million--an increase of 5.0 million pounds (28 percent) in quantity and

REVIEW

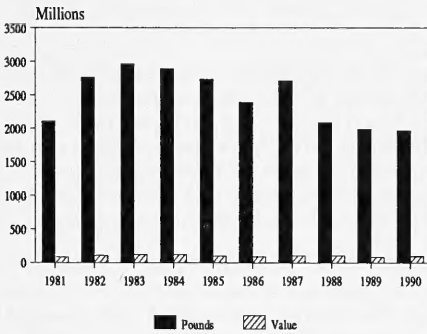
IMPORTANT SPECIES

\$612,000 in value (19 percent) compared with 1989. Rhode Island was the leading state with 10.5 million pounds (46 percent) of the total catch. The average exvessel price per pound in 1990 was 17 cents, down 1 cent from 1989.

MACKEREL, PACIFIC. Landings of Pacific mackerel were 83.7 million pounds valued at \$5.1 million—a decrease of 4.9 million pounds (6 percent) in quantity and \$942,000 (16 percent) in value compared with 1989. The average exvessel price dropped to 6 cents per pound.

MENHADEN. The U.S. menhaden landings were 2.0 billion pounds valued at \$93.9 million—a decrease of 26.6 million pounds (1 percent) in quantity, but an increase of \$9.4 million (11 percent) in value compared with 1989. Landings increased by 114.0 million pounds (16 percent) in the Atlantic States and decreased 140.5 million pounds (11 percent) in the Gulf States compared with 1989. Landings along the Atlantic coast were 816.7 million pounds valued at \$39.5 million. Gulf region landings were 1.1 billion pounds valued at \$54.4 million. Menhaden are used primarily for the production of meal, oil, and solubles. Small quantities are used for bait and canned pet food.

Trend in Commercial Landings, 1981-1990
Atlantic and Gulf Menhaden



\$257.8 million pounds valued at \$169.1 million—an increase of 28.1 million pounds (12 percent) in quantity and an increase of \$9.1 million (6 percent) in value compared with 1989. Of these species, flounders led in value, accounting for 41 percent of the total; followed by Atlantic cod, 36 percent; and pollock, 6 percent.

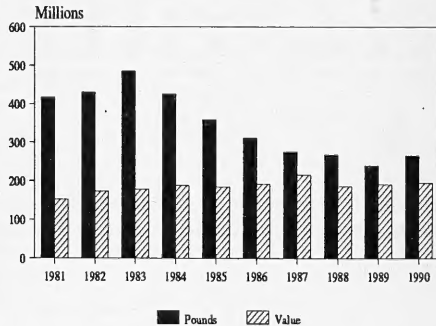
The 1990 landings of Atlantic cod were 95.9 million pounds valued at \$61.3 million—an increase of 17.5 million pounds (22 percent) and \$13.6 million (28 percent) in value compared with 1989. The exvessel price per pound was 64 cents per pound in 1990 compared with 61 cents per pound in 1989.

Landings of yellowtail flounder increased to 31.7 million pounds, an increase of 19.4 million pounds (158 percent) from 1989, almost double the 5-year average.

Haddock landings increased in 1990 to 5.4 million pounds (up 43 percent from 1989). Value increased to \$6.0 million (up 31 percent) from 1989.

The North Atlantic pollock landings were 21.0 million pounds in 1990 valued at \$10.5 million, a decrease of 2.2 million pounds (9 percent) in quantity, but an increase of \$594,000 (6 percent) in value compared with 1989.

Trend in Commercial Landings, 1981-1990
North Atlantic Trawl Fish



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

PACIFIC SALMON. U.S. commercial landings of salmon were 733.1 million pounds valued at \$612.4 million—a decrease of 52.7 million pounds (7 percent) in quantity but an increase of \$21.1 million (4 percent) in value

REVIEW

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compared with 1989. Alaska accounted for 94 percent of the total landings; Washington, 4 percent; Oregon and California, 2 percent; landings of 470,000 pounds of silver salmon were taken from the Great Lakes. Red salmon landings were 317.3 million pounds valued at \$396.4 million, an increase of 43.3 million pounds (16 percent) in quantity, and \$50.0 million (14 percent) in value compared with 1989. King salmon landings decreased to 25.8 million pounds—down 5.7 million pounds (18 percent) from 1989. Pink salmon landings of 272.4 million pounds in 1990 decreased by 95.5 million pounds (26 percent); chum salmon, 70.2 million pounds, increased 1.5 million pounds (2 percent); and silver salmon, 47.5 million pounds, increased 3.7 million pounds (8 percent) compared with 1989.

Alaska landings of 689.7 million pounds valued at \$546.7 million decreased 23.3 million pounds (3 percent) in quantity and an increase of \$40.0 million (8 percent) in value compared with 1989. The distribution of Alaska salmon landings by species in 1990 was: sockeye, 305.4 million pounds (44 percent); pink, 272.4 million pounds (40 percent); chum, 62.7 million pounds (9 percent); coho, 37.8 million pounds (5 percent), and chinook, 11.5 million pounds (2 percent). The exvessel price per pound for all species in Alaska was 79 cents in 1990, up 8 cents from 1989.

Washington salmon landings were 33.3 million pounds valued at \$46.1 million—a decrease of 22.0 million pounds (40 percent) in quantity, and \$10.8 million (19 percent) in value compared with 1989. The biennial fishery for pink salmon went from 16.6 million pounds in 1988 to 30,000 pounds in 1990.

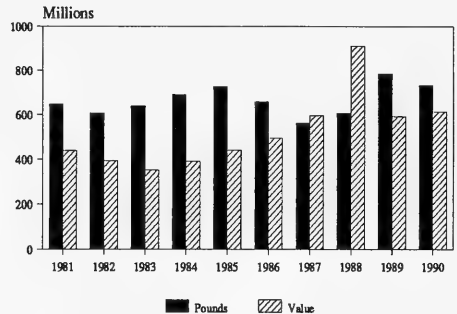
Washington landings of red salmon were 11.9 million pounds—down 469,000 pounds (4 percent), followed by chum, 7.5 million pounds (down 24 percent), silver, 7.9 million pounds (down 6 percent), and chinook, 5.9 million pounds (down 25 percent) compared with 1989. The average exvessel price per pound for all species in Washington increased from \$1.03 in 1989 to \$1.38 in 1990.

Oregon salmon landings were 5.2 million pounds valued at \$7.4 million—a decrease of 6.2 million pounds (54 percent) in quantity and \$6.7 million (46 percent) in value compared with 1989. Landings of chinook salmon decreased to 4.2 million pounds (down 45 percent);

silver, 1.0 million pounds (down 73 percent); and chum, 4,000, the same amount reported in 1989. The average exvessel price per pound for all species in Oregon increased from \$1.23 in 1989 to \$1.41 cents in 1990.

California salmon landings were 4.4 million pounds valued at \$12.0 million—a decrease of 1.3 million pounds (22 percent) in quantity and \$1.3 million (10 percent) compared with 1989. Chinook salmon landings were 4.1 million pounds valued at \$11.4 million—a decrease of 1.3 million pounds (24 percent) in quantity and \$1.6 million (12 percent) in value compared with 1989. Landings of silver salmon increased to 311,000 pounds (up 36 percent) in quantity and \$617,000 (up 59 percent) in value compared with 1989. The average exvessel price per pound paid to fishermen for all species in 1990 was \$2.71 compared with \$2.35 in 1989.

Trend in Commercial Landings, 1981-1990
Pacific Salmon



SABLEFISH. U.S. commercial landings of sablefish were 89.8 million pounds valued at \$58.9 million—a decrease of 7.8 million pounds (8 percent) in quantity, and \$14.4 million (20 percent) in value compared with 1989. Landings decreased in Alaska to 70.1 million pounds (down 7 percent) compared with 1989. Landings decreased in Washington to 4.2 million pounds (down 25 percent), and in California to 7.2 million pounds (down 3 percent) compared with 1989. The 1990 Oregon catch of 8.2 million pounds was (9 percent less than) the 1989 catch. The average exvessel price per pound in 1990 was 66 cents compared with 75 cents in 1989.

REVIEW

IMPORTANT SPECIES

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 513.8 million pounds valued at \$309.8 million—a decrease of 27.7 million pounds (5 percent) in quantity but a slight increase in value (\$889,000) compared with 1989. The average exvessel price per pound of all species of tuna in 1990 was 60 cents compared with 57 cents in 1989.

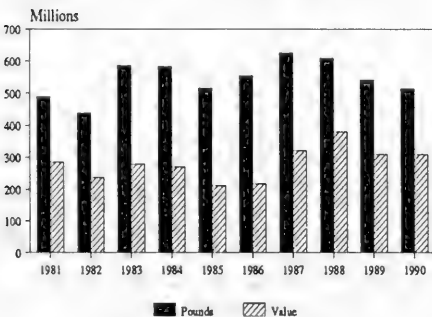
Bigeye landings were 5.1 million pounds—an increase of 503,000 pounds (11 percent) compared with 1989. The average exvessel price per pound was \$3.52 in 1990 compared with \$3.43 in 1989.

Skipjack landings were 252.5 million pounds, an increase of 6.9 million pounds (3 percent) compared with 1989. The average exvessel price per pound was 41 cents in 1990, the same as in 1989.

Yellowfin landings were 233.1 million pounds—a decrease of 40.5 million pounds (15 percent) compared with 1989. The average exvessel price per pound was 63 cents in 1990 compared with 58 cents in 1989.

Bluefin landings were 5.5 million pounds—an increase of 766,000 pounds (16 percent) compared with 1989. The average exvessel price per pound in 1990 was \$4.50 compared with \$4.82 in 1989.

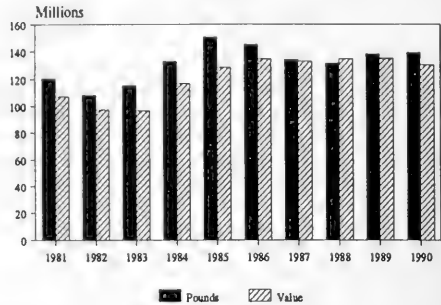
Trend in Commercial Landings, 1981-1990
Tuna (Includes U.S. and Foreign Ports)



CLAMS. Landings of all species yielded 139.2 million pounds of meats valued at \$130.2 million—an increase of 1.0 million pounds (1 percent) in quantity and a decrease of \$4.7 million (4 percent) in value compared with

1989. The average exvessel price per pound decreased to 94 cents in 1990 from 98 cents in 1989.

Trend in Commercial Landings, 1981-1990
Clams



Surf clams yielded 71.8 million pounds of meats valued at \$32.2 million—an increase of 4.7 million pounds (7 percent) in quantity, and \$1.5 million (5 percent) in value compared with 1989. New Jersey was the leading State with 44.8 million pounds (up 4 percent from 1989), followed by New York, 12.6 million pounds (up 100 percent); Maryland, 6.2 million pounds (up 11 percent); Virginia, 5.6 million pounds (down 24 percent); and Massachusetts, 1.6 million pounds (down 53 percent). The average exvessel price per pound of meats was 45 cents in 1990, down 1 cent from 1989.

The ocean quahog fishery produced 46.7 million pounds of meats valued at \$16.2 million—a decrease of 4.3 million pounds (8 percent) in quantity, and \$185,000 (1 percent) in value compared with 1989. New Jersey was the leading producer with 32.4 million pounds of meats accounting for 69 percent of the total ocean quahog landings. The value for New Jersey in 1990 was \$10.2 million—an increase of \$2.4 million (31 percent) compared with 1989. The average exvessel price per pound of meats was 35 cents in 1990, compared with 32 cents in 1989.

The hard clam fishery produced 9.8 million pounds of meats valued at \$41.9 million—an increase of 555,000 pounds (6 percent) in quantity and a decrease of \$3.0 million (7 percent) in value compared with 1989. Landings in the New England region were 4.1 million pounds

REVIEW

IMPORTANT SPECIES

of meats (up 14 percent); Middle Atlantic region, 1.3 million pounds (up 8 percent); Chesapeake region, 1.5 million pounds (the same as 1989); and the South Atlantic region, 1.9 million pounds (up 6 percent). The average exvessel price per pound of meats decreased from \$4.84 in 1989 to \$4.26 in 1990.

Soft clams yielded 5.8 million pounds of meats valued at \$22.4 million--a decrease of 1.1 million (16 percent) in quantity, and an increase of \$2.5 million (13 percent) in value compared with 1989. Maine was the leading State with 2.5 million pounds of meats followed by Maryland with 2.2 million pounds (down 14 percent) and Massachusetts with 860,000 pounds (down 22 percent). The average exvessel price per pound of meats was \$3.88 in 1990 compared with \$2.91 in 1989.

CRABS. Landings of all species of crabs were 499.4 million pounds valued at \$483.8 million--an increase of 41.0 million pounds (9 percent) in quantity and \$69.4 million (17 percent) in value compared with 1989.

Hard blue crab landings were 201.8 million pounds valued at \$77.4 million--a decrease of 4.9 million pounds (2 percent) in quantity and \$3.6 million (4 percent) in value compared with 1989. Hard blue crab landings in the Chesapeake region of 90.3 million pounds increased 2.5 million pounds (3 percent), and the South Atlantic region landings of 54.0 million pounds increased by 1.6 million pounds (3 percent). The Gulf region, with 45.5 million pounds, decreased 9.7 million pounds (18 percent). The Middle Atlantic region landings of 12.0 million pounds valued at \$5.0 million increased 680,000 pounds (6 percent) in quantity but decreased \$109,000 (2 percent) in value compared with 1989. The average exvessel price per pound of hard blue crabs was 38 cents in 1990, one cent less than 1989.

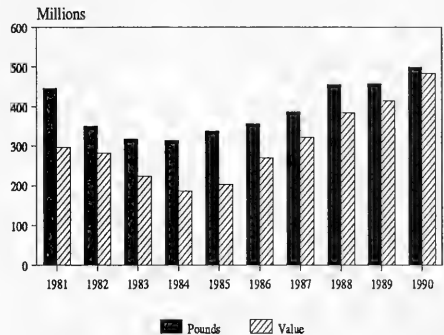
Dungeness crab landings were 31.4 million pounds valued at \$48.1 million--a decrease of 9.6 million pounds (23 percent) in quantity, but an increase of \$2.6 million (6 percent) in value compared with 1989. Washington landings of 11.2 million pounds led all states with 36 percent of the total landings a decrease of 8.8 million pounds (44 percent) compared with 1989. Alaska increased in landings with 7.9 million pounds, up 5 percent compared with 1989. Oregon landings were 9.5 million pounds, down 19 percent compared with 1989. California increased in landings with 2.9 million pounds (up 61

percent from 1989). The average exvessel price per pound was \$1.53 in 1990 compared with \$1.11 in 1989.

U.S. landings of king crab were 33.9 million pounds valued at \$146.8 million--an increase of 7.5 million pounds (29 percent) compared with 1989. The average exvessel price per pound in 1990 was \$4.33 compared with \$4.02 in 1989.

Snow (tanner) crab landings were 213.4 million pounds valued at \$186.2 million--an increase of 48.8 million pounds (30 percent) in quantity and \$26.1 million (16 percent) in value compared with 1989. The average exvessel price per pound was 87 cents in 1990, down from 97 cents in 1989.

Trend in Commercial Landings, 1981-1990
Crabs



LOBSTER, AMERICAN. American lobster landings were 61.0 million pounds valued at \$154.7 million--an increase of 8.1 million pounds in quantity (15 percent) and an increase of \$5.6 million in value (4 percent) compared with 1989. Maine led in landings for the eighth consecutive year with 28.1 million pounds valued at \$61.6 million -- up 4.8 million pounds (21 percent) from 1989. Massachusetts, the second leading producer, had landings of 15.8 million pounds valued at \$44.0 million, a decrease of 373,000 pounds (2 percent) compared with 1989. These two states combined to produce 72 percent of the total national landings. The average exvessel price per pound was \$2.53 in 1990 compared with \$2.82 in 1989.

REVIEW

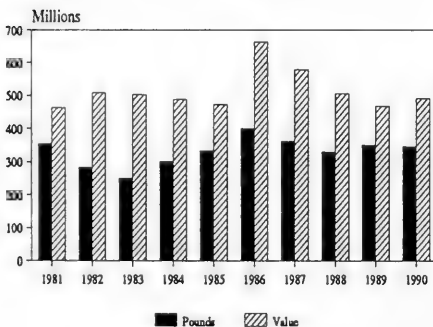
IMPORTANT SPECIES

LOBSTERS, SPINY. U.S. landings of spiny lobster were 7.1 million pounds valued at \$23.2 million—a decrease of 1.0 million pounds (12 percent) in quantity and \$3.2 million (12 percent) in value compared with 1989. Florida, with landings of 5.7 million pounds valued at \$15.6 million, accounted for 81 percent of the total catch and 67 percent of the value. This was a decrease of 727,000 pounds (11 percent) in quantity and \$3.1 million (17 percent) in value compared with 1989. Overall the average exvessel price per pound was \$3.27 in 1990, 1 cent more than 1989.

OYSTERS. U.S. oyster landings yielded 29.2 million pounds of meats valued at \$93.7 million—a decrease of 57,000 pounds (less than one percent) in quantity, but an increase of \$10.8 million (13 percent) in value compared with 1989. The Pacific region (principally Washington with 83 percent of the region's total volume) led in production with 10.8 million pounds of meats, 37 percent of the national total; followed by the Gulf region with 10.6 million pounds (36 percent), and the Chesapeake region, with 3.7 million pounds (13 percent). The average exvessel price per pound of meats was \$3.21 in 1990 compared with \$2.84 in 1989.

SHRIMP. U.S. landings of shrimp were 346.5 million pounds valued at \$491.4 million—a decrease of 5.0 million pounds (1 percent) in quantity, but an increase of \$23.9 million (5 percent) in value compared with 1989.

Trend in Commercial Landings, 1981-1990
Shrimp



Shrimp landings increased in New England (up 22 percent), and the Gulf (up 9 percent) but declined in

the South Atlantic (down 16 percent), and the Pacific (down 28 percent), when compared with 1989. The average exvessel price per pound of shrimp increased to \$1.42 in 1990 compared with \$1.33 in 1989. Gulf region landings were 249.5 million pounds compared with 228.4 million pounds in 1989. Louisiana led all Gulf states with 119.2 million pounds (up 18 percent), followed by Texas, 86.9 million pounds (up 10 percent); Mississippi, 15.2 million pounds (down 3 percent); Alabama, 15.0 million pounds (down 10 percent); Florida (west coast), 13.2 million pounds (down 19 percent); and Oregon was the third leading State nationwide with landings of 31.9 million pounds (down 35 percent), and Washington landings were 13.7 million pounds, down 14 percent compared with 1989.

SCALLOPS. U.S. landings of all species scallops were 41.6 million pounds of meats valued at \$158.1 million—an increase of 980,000 pounds (2 percent) in quantity, and \$17.9 million (13 percent) in value compared with 1989. The average exvessel price per pound of meats increased from \$3.45 in 1989 to \$3.80 in 1990.

Bay scallop landings were 539,000 pounds of meats valued at \$3.1 million—an increase of 265,000 pounds (97 percent) in quantity and \$1.4 million (85 percent) in value compared with 1989. Massachusetts was the leading state with 450,000 pounds of meats, 83 percent of the national total. The average exvessel price per pound of meats was \$5.76 in 1990 compared with \$6.12 in 1989.

Seascallop landings were 39.9 million pounds of meats valued at \$153.7 million—an increase of 6.2 million pounds (18 percent) in quantity and \$21.1 million (16 percent) in value compared with 1989.

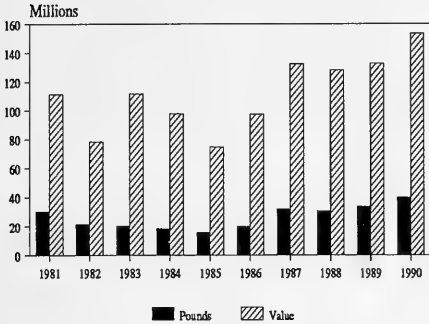
Massachusetts was also the leading state in landings of sea scallops with 22.8 million pounds of meats, 57 percent of the national total. The average exvessel price per pound of meats in 1990 was \$3.85 compared with \$3.93 in 1989.

Landings of calico scallops were 1.1 million pounds of meats valued at \$1.3 million—a decrease of 5.4 million pounds (83 percent) in quantity and \$4.6 million (78 percent) in value compared with 1989. Florida (east coast) had 66 percent of the total landings in 1990. The average exvessel price per pound of meats was \$1.13 in 1990 compared with 90 cents in 1989.

REVIEW

IMPORTANT SPECIES

Trend in Commercial Landings, 1981-1990
Atlantic Sea Scallops



SQUID. U.S. commercial landings of squid were 95.9 million pounds valued at \$23.8 million—a decrease of 31.4 million pounds (25 percent) and \$7.2 million (23 percent) compared with 1989. California was the leading state with 36.1 million pounds, 38 percent of the national total.

The New England region landings were 36.0 million pounds (down 24 percent) from 1989. Landings in the Middle Atlantic region were 21.6 million pounds (up 23 percent), and the Chesapeake region, 2.1 million pounds (up 20 percent). The average exvessel price per pound for squid was 25 cents in 1990, compared with 24 cents in 1989.

PER CAPITA CONSUMPTION

The NMFS calculation of per capita consumption is based on a “disappearance” model: the total U.S. supply of imports and landings is converted to edible weight; decreases in supply such as exports and inventories are subtracted out; the remaining total is divided by a population value to estimate per capita consumption. Data for the model are derived primarily from secondary sources or voluntary surveys of the U.S. fishing industry. Incomplete reporting, changes in source data or invalid model assumptions may each have a significant effect on the resulting calculation.

The per capita consumption model was modified in 1990 to reflect institutional changes in the seafood industry, including a rapid expansion in the domestic production and export of surimi. After these modifications were made the model was recalculated for the years 1980 through 1990 to maximize the utility of the time series. This represents the time period when industry changes caused long-standing model assumptions to become invalid. Two principal modifications have been made to the program: the method in which disappearance of round tuna for canning is calculated, and a change in the conversion factor for surimi produced from Alaska pollock.

To calculate the fresh and frozen component of per capita, the U.S. catch of tuna is subtracted from the total U.S. landings since almost all the tuna landings are destined for canning. Prior to 1990 the total U.S. harvest of tuna, regardless of its port of offloading, was subtracted from the fresh and frozen component of the model. Over the last 10 years, there has been a shift in the tuna industry to where the majority of the catch is now landed

outside the 50 states, which is beyond the area for which the model calculates fresh and frozen supply for consumption. The 1990 modification to the model now includes only tuna landed in the 50 States. The change retains more seafood in the fresh and frozen component, raising the per capita calculation.

The second modification was to more accurately account for the dramatic growth in U.S. surimi production from 1987 - 1990, which now accounts for approximately 38 percent of the domestic round fish utilized for fresh and frozen consumption. In 1989, a 22 percent yield of surimi per pound of round fish was utilized. Latest data from the industry indicates that at-sea processors yield approximately 15 percent while shore based operations yield 20 percent. The net effect of the conversion factor change lowers overall consumption for the years in which surimi was produced.

U.S. per capita consumption of fish and shellfish was 15.5 pounds (edible meat) in 1990. This total was 0.1 pounds less than the revised figure of 15.6 pounds consumed in 1989. Per capita consumption of fresh and frozen products was 10.1 pounds, a decrease of 0.1 pounds from 1989. Fresh and frozen finfish accounted for 6.6 pounds while fresh and frozen shellfish consumption was 3.5 pounds per capita. The fresh and frozen finfish includes approximately 0.7 pounds of farm raised catfish. Consumption of canned fishery products remained at 5.1 pounds per capita in 1990.

Per Capita Use. The per capita use of all fishery products (edible and industrial) in 1990 was 63.2 pounds (round weight), up 1.0 pound compared with 1989.

REVIEW

PROCESSED FISHERY PRODUCTS

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1990 the U.S. production of raw (uncooked) fish fillets and steaks, including blocks, was 434.2 million pounds—63.1 million pounds more than the 371.1 million pounds in 1989. These fillets and steaks were valued at \$820.1 million—\$77.7 million more than 1989. Alaska pollock fillets and blocks led all species with 164.4 million pounds—38 percent of the total. Production of groundfish fillets and steaks (see Glossary Section) was 258.8 million pounds compared with 211.5 million pounds in 1989.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 358.8 million pounds valued at \$489.3 million compared with the 1989 production of 368.9 million pounds valued at \$516.7 million—a decrease of 10.1 million pounds and \$27.4 million.

The total production of fish sticks amounted to 65.2 million pounds valued at \$74.9 million, a decrease of 23.9 million pounds and \$41.6 million compared with 1989. The total production of fish portions amounted to 293.6 million pounds valued at \$414.4 million—an

increase of 13.8 million pounds in quantity and \$14.1 million compared with 1989.

BREADED SHRIMP. The production of breaded shrimp in 1990 was 114.2 million pounds valued at \$370.7 million, compared with the record 1989 production of 121.0 million pounds valued at \$404.6 million.

FROZEN FISHERY TRADE. In 1990, stocks of frozen fishery products in cold storage were at a low of 315.0 million pounds on March 31 and a high of 401.1 million pounds on January 31. Cold storage holdings of shrimp products were at a high of 62.5 million pounds on October 31 and a low of 42.6 million pounds on March 31. Saltwater fillets and steaks holdings reached a high of 108.2 million pounds on January 31 and were at a low of 61.1 million pounds on November 30. Holdings of blocks and slabs were at a high of 49.2 million pounds on January 31 and at a low of 33.0 million pounds on May 31. Surimi holdings reached a high of 28.7 million pounds on June 30 and were at a low of 16.6 million pounds on January 31. Cold storage holdings showed a decrease for ten months when compared with 1989.



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 45.2 million standard cases (1.2 billion pounds) valued at \$1.6 billion—a decrease of 9.5 million standard cases (277.0 million pounds), and \$430.1 million compared with the 1989 pack. The 1990 pack included 40.6 million cases (957.0 million pounds) valued at \$1.4 billion for human consumption, and 4.6 million standard cases (221.3 million pounds) valued at \$146.9 million for bait and animal food.

CANNED SALMON. The 1990 U.S. pack of natural Pacific salmon was 4.1 million standard cases (196.4 million pounds) valued at \$366.0 million, compared with 4.1 million standard cases (197.0 million pounds) valued at \$513.6 million packed in 1989. 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 565,823 standard cases (13.2 million pounds) valued at \$17.3 million, an increase of 834 standard cases (19,000 thousand pounds) and \$502,000 compared with 1989. An additional 249,680 standard cases (5.8 million pounds) of herring valued at \$9.7 million were packed in 1990 — 43,495 standard cases (1.0 million pounds) and \$2.5 million more than the 1989 pack.

CANNED TUNA. The U.S. pack of tuna was 29.8 million standard cases (580.6 million pounds) valued at \$902.0 million—a decrease of 5.4 million standard cases (105.7

million pounds) in quantity, and \$155.7 million in value compared with the 1989 pack. The pack of albacore tuna was 6.8 million standard cases—277,000 standard cases less than the 7.0 million standard cases produced in 1989. Albacore tuna was 23 percent of the tuna pack in 1990. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 23.0 million standard cases—5.1 million standard cases less than the 28.2 million standard cases packed in 1989.

CANNED CLAMS. The 1990 U.S. pack of clams (whole, minced, chowder, and juice) was 4.5 million standard cases (100.1 million pounds) valued at \$69.2 million, a decrease of 804,535 standard cases (23.5 million pounds) in quantity and \$13.0 million less in value than the pack in 1989. The pack of whole and minced clams of 2.3 million standard cases (41,241 standard cases) less than the 1989 pack and accounted for 52 percent of the total clam pack. Clam chowder and clam juice (2.2 million standard cases) made up the majority of the remaining pack.

CANNED SHRIMP. The U.S. pack of natural shrimp was 105,245 standard cases (710,000 thousand pounds) valued at \$2.9 million—a decrease of 283,365 standard cases (1.9 million pounds) and \$5.9 million compared with the 1989 pack.

OTHER CANNED ITEMS. The pack of pet food was 4.6 million standard cases valued at \$146.4 million—a decrease of 2.6 million standard cases compared with pack in 1989.



REVIEW

PROCESSED FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of Industrial fishery products was \$206.6 million—an increase of \$478,000 thousand compared with the 1989 value of \$206.1 million. The leading state was Louisiana (\$50.2 million) which accounted for 24 percent of the total U.S. value for 1990.

FISH MEAL AND SCRAP. The domestic production of fish meal and scrap (including shellfish) was 577.5 million pounds valued at \$120.7 million—a decrease of 40.9 million pounds from the 1989 volume and an increase of \$5.7 million in value. Menhaden meal production was 448.0 million pounds valued at \$77.5 million—a decrease of 15.9 million pounds and \$11.6 million compared with 1989. Menhaden accounted for 78 percent of the 1990 production of fish meal and scrap. Shellfish meal production was 22.4 million pounds—a decrease of 3.0 million pounds from the 1989 level. Tuna and mackerel meal production was 66.3 million pounds—a decrease of 16.0 million pounds from 1989. Production of unclassified meal (consisting mainly of Alaska pollock and unclassified fish) was 40.8 million pounds—a decrease of 5.9 million pounds compared with 1989.

FISH SOLUBLES. Domestic production of fish solubles was 185.7 million pounds, 47.0 million pounds less than the 1989 production.

FISH OILS. The domestic production of fish oils was 281.9 million pounds valued at \$29.0 million—an increase of 56.5 million pounds and \$5.5 million in value compared with 1989 production. The production of menhaden oil was 274.0 million pounds valued at \$28.2 million—an increase of 55.4 million pounds and \$5.0 million in value compared with 1989. Menhaden oil accounted for 97 percent of the volume and value of the total 1990 fish oil production. Unclassified oil production increased by 1.0 million.

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, and mussel shell buttons were valued at \$42.8 million, compared with \$49.8 million in 1989—a decrease of \$7.0 million.



REVIEW

FOREIGN TRADE IN FISHERY PRODUCTS

IMPORTS. U.S. Imports of edible fishery products in 1990 were valued at \$5.2 billion, \$264.7 million less than in 1989. The quantity of edible imports was 2.9 billion pounds, 358.4 million pounds lower than the quantity imported in 1989.

The quantity of shrimp imported in 1990 was 501.3 million pounds, 1.6 million pounds less than the quantity imported in 1989. Valued at \$1.7 billion, \$46.5 million less than the 1989 value, shrimp imports accounted for 32 percent of the value of total edible imports. Imports of fresh and frozen tuna were 453.7 million pounds, 196.0 million pounds less than the 649.7 million pounds imported in 1989. Imports of canned tuna were 284.6 million pounds, 63.6 million pounds less than the 348.2 million pounds imported in 1989. Imports of fresh and frozen filets and steaks amounted to 458.4 million pounds, a decrease of 59,200 pounds from 1989. Regular and minced block imports were 264.5 million pounds, a decline of 18.8 million pounds from 1989. Edible imports consisted of 2.3 billion pounds of fresh and frozen products valued at \$4.5 billion, 458.3 million pounds of canned products valued at \$542.6 million, 70.6 million pounds of cured products valued at \$118.6 million, 2.5 million pounds of caviar and roe products valued at \$15.0 million, and 17.2 million pounds of other products valued at \$35.6 million.

Imports of nonedible fishery products were valued at \$3.8 billion, \$292.0 million less than the record \$4.1 billion imported in 1989. The total value of edible and nonedible products was \$9.0 billion in 1990, \$556.7

million less than the record in 1989 when \$9.6 billion of fishery products were imported.

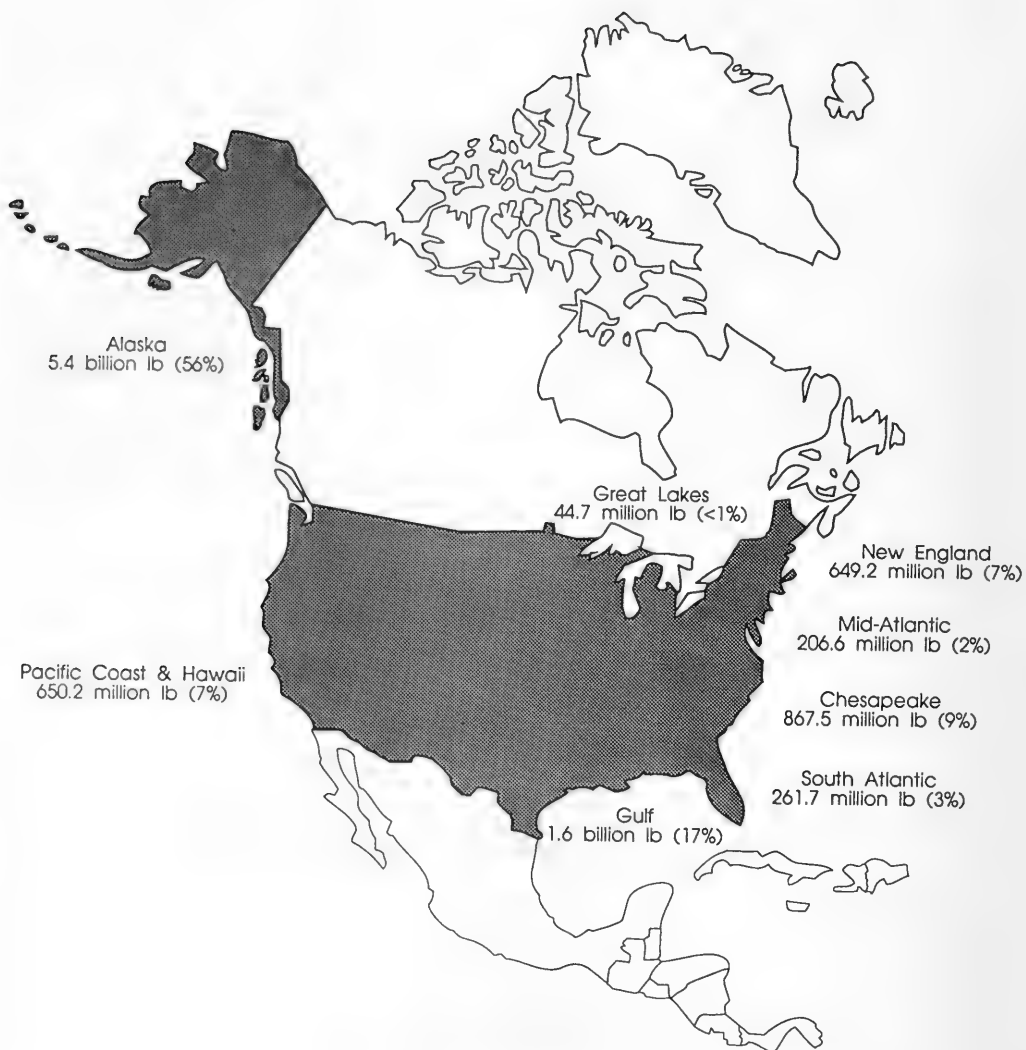
EXPORTS. U.S. exports of edible fishery products of domestic origin were a record 1.9 billion pounds valued at a record \$2.8 billion, compared with exports of 1.4 billion pounds valued at \$2.3 billion in 1989. The \$51.3 million received for U.S.-flag vessel catches transferred onto foreign vessels in the U.S. Exclusive Economic Zone joint venture operations are not included in the export statistics.

Fresh and frozen items were 1.7 billion pounds valued at \$2.3 billion, an increase of 606.6 million pounds and \$505.8 million compared with 1989. Fresh and frozen exports consisted principally of 310.3 million pounds of salmon valued at \$672.4 million and 107.5 million pounds of crabs valued at \$351.8 million. Canned items were 98.3 million pounds valued at \$185.6 million. Salmon was the major canned item exported, with 49.4 million pounds valued at \$104.3 million. Cured items were 19.0 million pounds valued at \$32.8 million. Caviar and roe exports were 70.4 million pounds valued at \$223.8 million, a decrease of 2.4 million pounds and an increase of \$28.9 million compared with 1989.

Exports of nonedible products were valued at a record \$2.9 billion compared with \$2.4 billion in 1989. Exports of fishmeal amounted to 128.5 million pounds valued at \$38.6 million. The total value of edible and nonedible exports was \$5.6 billion.



U.S. COMMERCIAL LANDINGS BY REGION



U.S. COMMERCIAL LANDINGS

1

U.S. DOMESTIC LANDINGS, BY SPECIES, 1989 AND 1990 (1)

Species	1989		1990		Aver. (1985-89)
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	
Fish					
Alewives:					
Atlantic and Gulf:					
Great Lakes.....	4,169	508	3,089	411	7,955
Anchovies.....	10,030	173	14,141	212	15,739
Bluefish.....	13,389	2,696	13,189	2,723	13,335
Bonito.....	10,429	2,245	13,802	3,239	14,044
Butterfish.....	2,676	582	8,272	1,778	5,890
Cod:	7,077	4,116	6,532	3,334	8,610
Atlantic.....	78,423	47,772	95,881	61,329	71,511
Pacific.....	372,137	55,375	544,203	94,590	206,934
Croaker.....	8,287	4,114	6,786	3,437	10,681
Cusk.....	2,058	974	2,702	1,229	3,368
Flounders:					
Atlantic and Gulf:					
Blackback.....	14,655	19,609	14,821	16,395	18,521
Fluke.....	21,840	33,447	11,971	21,078	30,663
Yellowtail.....	12,294	13,911	31,682	28,060	17,509
Other.....	20,206	22,712	13,949	14,164	30,575
Pacific.....	133,494	30,152	429,795	79,618	101,849
Total.....	202,489	119,831	502,218	159,315	199,118
Groupers.....	15,149	25,588	12,223	20,603	12,144
Haddock.....	3,808	4,538	5,440	5,967	8,459
Hake:					
Pacific (whiting).....	16,564	1,094	21,232	1,229	22,604
Red.....	3,436	591	3,875	715	4,069
White.....	11,286	4,423	11,419	4,466	13,523
Halibut.....	75,168	85,145	70,454	96,700	74,319
Herring, sea:					
Atlantic.....	89,657	5,041	113,095	5,746	80,221
Pacific.....	119,346	24,391	108,120	32,178	129,243
Jack mackerel.....	28,422	1,927	8,959	535	24,433
Lingcod.....	8,003	2,785	7,293	2,311	7,250
Mackerel:					
Atlantic.....	17,913	3,182	22,962	3,794	11,696
King.....	3,772	4,287	4,253	4,771	4,693
Pacific.....	88,667	6,023	83,721	5,081	88,732
Spanish.....	6,759	3,037	5,778	2,585	6,020
Menhaden:					
Atlantic.....	702,688	32,129	816,669	39,534	689,892
Gulf.....	1,286,038	52,333	1,145,491	54,362	1,693,676
Total.....	1,988,726	84,462	1,962,160	93,896	2,383,569
Mullet.....	31,594	15,023	28,554	12,738	27,442
Ocean perch:					
Atlantic.....	1,392	919	1,322	703	4,837
Pacific.....	22,332	4,646	60,972	8,494	15,770
Pollock:					
Atlantic.....	23,249	9,922	21,042	10,516	39,978
Alaska.....	2,361,988	186,921	3,157,406	272,640	878,909
Rockfishes.....	133,623	42,338	170,467	40,532	109,934
Sablefish.....	97,590	73,272	89,802	58,864	91,209
Salmon:					
Chinook or king....	31,466	48,531	25,753	47,228	35,022
Chum or keta.....	68,685	30,078	70,199	34,299	96,086
Pink.....	367,898	132,784	272,392	84,964	260,296
Red or sockeye....	274,051	346,442	317,315	396,420	227,957
Silver or coho....	43,768	33,399	47,487	49,456	48,540
Total.....	785,868	591,234	733,146	612,367	667,900
Scup or porgy.....	9,582	7,720	11,452	8,677	14,082
Sea bass:					
Black.....	3,854	4,528	5,024	5,612	4,472
White.....	94	202	123	265	108
Sea trout:					
Gray.....	14,187	7,160	9,880	5,777	17,930
Spotted.....	3,438	3,386	1,717	2,240	3,152
White.....	299	136	272	198	487
Sharks:					
Dogfish.....	12,804	1,602	35,793	3,801	11,944
Other.....	17,174	9,364	14,979	8,325	10,199

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY SPECIES, 1989 AND 1990 (1) - Continued

Species	1989		1990		Aver. (1985-89) Thousand pounds
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	
Fish - Marine					
Snapper:					
Red	3,959	10,329	3,101	8,411	4,304
Other	6,755	12,332	7,122	12,838	5,479
Striped bass	285	477	1,055	1,453	532
Swordfish	11,768	38,321	13,797	40,851	11,255
Filefish	2,542	4,246	3,400	5,770	5,326
Tuna:					
Albacore	5,591	4,279	7,331	6,319	11,012
Bigeye	4,547	15,587	4,820	17,640	2,852
Bluefish	4,749	22,893	5,515	24,836	8,470
Skipjack	14,042	7,701	7,398	6,347	14,537
Yellowfin	59,678	52,294	36,280	48,876	58,339
Unclassified	806	789	1,049	1,022	926
Total	89,413	103,543	62,393	105,040	96,137
Whiting	39,353	9,403	44,500	11,281	38,813
Other marine finfishes	256,973	75,286	236,665	81,736	-
Other freshwater finfishes	27,198	19,037	30,135	19,236	-
Total, fish ...	7,145,154	1,726,247	8,395,918	1,950,539	-
Shellfish et al.					
Clams:					
Hard	9,278	44,925	9,833	41,889	12,311
Ocean quahog	51,025	16,386	46,727	16,201	48,987
Soft	6,829	19,854	5,756	22,362	6,973
Surf	67,072	30,718	71,772	32,244	68,526
Other	3,962	23,060	5,110	17,498	3,244
Total	138,166	134,943	139,198	130,194	140,041
Crabs:					
Blue, hard	206,720	80,989	201,838	77,381	199,645
Dungeness	40,984	45,534	31,411	48,099	33,715
King	26,391	106,204	33,917	146,835	23,540
Snow (tanner)	164,643	160,082	213,395	186,199	124,105
Other	19,640	21,592	18,855	25,323	17,729
Total	458,378	414,401	499,416	483,837	398,733
Lobsters:					
American	52,926	149,115	61,017	154,677	47,866
Spiny	8,125	26,447	7,120	23,249	6,626
Oysters	29,250	82,948	29,193	93,718	37,268
Scallops					
Bay	274	1,678	539	3,102	698
Calico	6,580	5,928	1,135	1,281	8,146
Sea	33,757	132,594	39,917	153,696	26,435
Shrimp:					
New England	7,950	7,808	9,668	6,912	9,078
South Atlantic	33,703	53,561	28,453	55,372	26,388
Gulf	228,368	374,013	249,461	398,609	255,653
Pacific	81,493	32,189	58,912	30,540	64,750
Other	-	-	-	-	-
Total	351,514	467,571	346,494	491,433	355,881
Squid:					
Atlantic	66,829	25,592	59,809	21,178	42,436
Pacific	60,509	5,509	36,082	2,636	49,728
Other shellfish et al.	111,618	65,467	92,583	62,897	-
Total, shellfish et al.	1,317,926	1,512,193	1,312,503	1,621,898	-
Grand total	8,463,080	3,238,440	9,708,421	3,572,437	-

(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.

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, 1989 AND 1990

End Use	1989		1990	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen:				
For human food.....	5,386	63.6	6,576	67.7
For bait and animal food.....	199	2.4	229	2.4
Total	5,585	66.0	6,805	70.1
Canned:				
For human food.....	690	8.2	644	6.6
For bait and animal food.....	108	1.3	107	1.1
Total	798	9.4	751	7.7
Cured for human food....	128	1.5	126	1.3
Reduction to meal, oil, etc.....	1,952	23.1	2,026	20.9
Grand total	8,463	100.0	9,708	100.0

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

DISPOSITION OF U.S. DOMESTIC LANDINGS, BY MONTH, 1990

Month	Landings for Human food		Landings for Industrial purposes (1)		Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds	Percent
January.....	456	6.2	37	1.6	493	5.1
February.....	509	6.9	29	1.2	538	5.5
March.....	642	8.7	34	1.4	676	7.0
April.....	574	7.8	62	2.6	636	6.6
May.....	543	7.4	216	9.1	759	7.8
June.....	618	8.4	337	14.3	955	9.8
July.....	931	12.7	411	17.4	1,342	13.8
August.....	891	12.1	454	19.2	1,345	13.9
September.....	692	9.4	406	17.2	1,098	11.3
October.....	541	7.4	214	9.1	755	7.8
November.....	509	6.9	73	3.1	582	6.0
December.....	440	6.0	89	3.8	529	5.4
Total	7,346	100.0	2,362	100.0	9,708	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, 1981-1990 (1)

Year	Landings For Human Food		Landings for Industrial Purposes (2)		Total	
	Million pounds	Million dollars	Millions pounds	Million dollars	Millions pounds	Million dollars
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
1990.....	*7,346	3,416	2,362	156	*9,708	3,572

(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, 1989 AND 1990 (1)

States	1989		1990		Record Landings	
	Thousand	Thousand	Thousand	Thousand	Year	Thousand
	pounds	dollars	pounds	dollars		pounds
Alabama.....	25,444	38,293	22,669	35,931	1973	39,749
Alaska.....	4,088,780	1,223,230	5,403,787	1,509,345	1990	5,403,787
California.....	418,409	123,304	347,139	126,928	1936	1,760,193
Connecticut.....	8,588	18,309	9,471	26,873	1930	88,012
Delaware.....	6,898	3,453	8,550	4,189	1953	367,500
Florida.....	197,462	185,858	179,940	170,494	1938	241,443
Georgia.....	15,770	19,791	13,191	19,761	1927	47,607
Hawaii.....	24,397	47,109	26,582	65,009	1984	34,824
Illinois.....	238	304	301	444	-	(2)
Indiana.....	1,528	1,929	353	505	-	(2)
Louisiana.....	1,227,941	264,153	1,061,228	263,467	1984	1,931,027
Maine.....	151,119	132,522	169,294	129,876	1950	356,266
Maryland.....	84,920	52,050	80,705	53,905	1890	141,607
Massachusetts.....	268,861	272,847	327,933	302,950	1948	649,696
Michigan.....	14,215	9,900	17,428	10,360	1930	35,580
Minnesota.....	329	73	505	136	-	(2)
Mississippi.....	298,206	43,949	319,585	42,379	1984	476,997
New Hampshire.....	11,402	10,247	10,704	10,028	-	(2)
New Jersey.....	128,459	78,802	149,369	89,344	1956	540,060
New York.....	37,080	51,096	48,823	56,474	1880	335,000
North Carolina.....	164,476	70,582	176,038	71,542	1981	432,006
Ohio.....	3,389	1,344	4,758	3,097	1936	31,083
Oregon.....	170,052	78,846	139,335	70,449	1989	170,052
Pennsylvania.....	495	264	291	279	-	(2)
Rhode Island.....	125,041	75,004	131,782	72,889	1990	131,782
South Carolina.....	20,065	24,893	14,516	24,012	1965	26,611
Texas.....	96,421	170,118	99,191	182,351	1960	237,684
Virginia.....	692,794	100,014	786,791	106,529	1990	789,791
Washington.....	163,003	134,585	137,186	118,138	1941	197,253
Wisconsin.....	17,298	5,571	20,976	4,753	-	(2)
Total.....	8,463,080	3,238,440	9,708,421	3,572,437	-	-

(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.

(2) Data 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, 1989 AND 1990 (1)

Region	1989		1990	
	Thousand	Thousand	Thousand	Thousand
	pounds	dollars	pounds	dollars
New England.....	565,011	508,929	649,184	542,616
Middle Atlantic.....	172,295	133,225	206,608	149,873
Chesapeake.....	777,714	152,064	867,496	160,434
South Atlantic.....	256,391	168,729	261,727	169,581
Gulf.....	1,789,394	648,908	1,624,631	640,356
Pacific Coast and Alaska.....	4,840,244	1,559,965	6,027,447	1,824,860
Great Lakes.....	37,634	19,511	44,746	19,708
Hawaii.....	24,397	47,109	26,582	65,009
Total.....	8,463,080	3,238,440	9,708,421	3,572,437

(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.

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. COMMERCIAL LANDINGS

5

COMMERCIAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1988-90

Port	Quantity			Port	Value		
	1988	1989	1990		1988	1989	1990
--Million pounds--				--Million dollars--			
Dutch Harbor-Unalaska, AK..	377.3	504.3	509.9	New Bedford, MA.....	140.9	141.0	160.4
Pascagoula-Moss Point, MS..	292.0	282.1	303.9	Dutch Harbor-Unalaska, AK..	100.9	107.0	126.2
Kodiak, AK.....	304.6	213.2	272.5	Kodiak, AK.....	*166.3	100.2	101.7
Empire-Venice, LA.....	297.2	272.7	244.2	Naknek-South Naknek, AK....	(1)	(1)	91.1
Cameron, LA.....	438.9	352.7	232.6	Brownsville-Port Isabel, TX	39.7	54.1	57.2
Intercoastal City, LA.....	209.7	207.2	173.0	Egegik, AK.....	(1)	(1)	53.9
Dulac-Chauvin, LA.....	244.1	210.9	164.4	Dulac-Chauvin, LA.....	56.5	50.0	52.7
Morgan City-Berwick, LA....	43.3	68.1	146.5	Kenai, AK.....	99.3	56.0	47.9
Los Angeles, CA.....	232.0	217.2	133.8	Empire-Venice, LA.....	67.7	49.2	46.3
Gloucester, MA.....	107.4	98.5	126.2	Hampton Roads Area, VA.....	34.5	31.1	43.4
New Bedford, MA.....	90.3	90.4	114.8	Gloucester, MA.....	30.8	30.0	40.5
Beaufort-Morehead City, NC.	110.0	95.0	102.0	Petersburg, AK.....	58.5	61.4	39.4
Naknek-South Naknek, AK....	(1)	(1)	90.4	Cordova, AK.....	46.4	35.3	36.8
Cordova, AK.....	42.5	55.3	70.8	Aransas Pass-Rockport, TX..	45.6	32.0	34.9
Cape May-Wildwood, NJ.....	47.9	54.0	69.2	Cape May-Wildwood, NJ.....	28.4	30.8	34.4
Petersburg, AK.....	50.4	113.5	69.5	Point Judith, RI.....	25.4	23.6	32.2
Point Judith, RI.....	49.6	48.3	58.7	Portland, ME.....	30.4	34.4	31.7
Ketchikan, AK.....	28.3	91.6	52.6	Seward, AK.....	19.5	23.1	29.1
Egegik, AK.....	(1)	(1)	52.3	Ketchikan, AK.....	43.5	45.6	28.3
Seward, AK.....	23.0	34.2	51.2	Golden Meadow-Leeville, LA.	37.0	33.5	26.5
Portland, ME.....	43.9	49.0	48.9	Dillingham-Togiak, AK.....	(1)	(1)	24.0
Valdez, AK.....	(1)	(1)	46.1	Beaufort-Morehead City, NC.	27.0	25.0	23.0
Kenai, AK.....	47.4	35.0	41.9	Bellingham, WA.....	30.1	21.3	23.0
Astoria, OR.....	44.2	51.0	41.2	Sitka, AK.....	37.4	24.2	22.1
Bellingham, WA.....	35.3	40.6	39.3	Key West, FL.....	16.8	17.3	21.7
Atlantic City, NJ.....	27.7	33.9	39.2	Port Arthur, TX.....	17.4	23.8	21.1
Rockland, ME.....	40.6	24.8	36.2	Bayou La Batre, AL.....	23.8	24.7	20.7
Newport, OR.....	38.5	44.4	34.0	Cameron, LA.....	33.2	20.5	20.6
Coos Bay-Charleston, OR....	33.0	34.9	31.8	Valdez, AK.....	(1)	(1)	20.5
Provincetown-Chatham, MA...	25.2	23.7	30.3	Morgan City-Berwick, LA....	16.7	17.8	19.7
Crescent City, CA.....	36.0	39.4	27.0	Pascagoula-Moss Point, MS..	28.2	16.9	18.8
Hampton Roads Area, VA.....	20.0	24.5	26.9	Westport, WA.....	21.2	17.1	17.9
Westport, WA.....	34.8	30.2	26.2	Atlantic City, NJ.....	12.6	15.5	17.8
San Francisco Area, CA.....	25.0	33.0	25.7	Los Angeles, CA.....	34.0	25.5	17.6
Brownsville-Port Isabel, TX	13.8	22.7	25.2	Astoria, OR.....	24.3	20.0	16.2
Dillingham-Togiak, AK.....	(1)	(1)	24.7	Montauk, NY.....	14.7	8.5	15.4
Sitka, AK.....	27.7	30.3	24.4	Wanchese-Stumpy Point, NC.....	17.0	16.0	15.0
Port Hueneme-Oxnard-Ventura, CA.....	55.0	65.3	24.2	Freeport, TX.....	22.6	10.7	14.8
Wanchese-Stumpy Point, NC..	31.0	25.0	23.0	Provincetown-Chatham, MA...	11.6	12.9	14.7
Monterey, CA.....	14.0	17.3	22.0	Newport, OR.....	24.3	19.2	14.7
Eureka, CA.....	27.0	21.2	21.3	Delcambre, LA.....	12.7	15.7	14.7
Ocean City, MD.....	21.1	24.6	21.1	Coos Bay-Charleston, OR....	21.8	16.1	14.5
Golden Meadow-Leeville, LA.	30.1	24.5	20.9	Grand Isle, LA.....	12.0	10.7	14.3
Boston, MA.....	20.8	17.3	19.6	Boston, MA.....	14.5	12.8	14.1
Point Pleasant, NJ.....	17.3	19.2	18.4	Biloxi, MS.....	29.5	22.2	14.1
Aransas Pass-Rockport, TX..	15.6	15.0	18.0	San Francisco Area, CA.....	15.0	13.3	13.9
Seattle, WA.....	17.5	15.6	16.5	Seattle, WA.....	19.5	14.7	13.5
Fort Bragg, CA.....	31.0	25.7	16.1	Cape Canaveral, FL.....	24.3	15.8	13.2
Wrangell, AK.....	3.3	9.3	15.6	Galveston, TX.....	21.4	15.1	13.0
Anacortes-La Conner, WA....	9.4	15.8	15.5	Pilot Point-Ugashik, AK....	(1)	(1)	13.0
Blaine, WA.....	11.9	15.3	14.5	Lafitte-Barataria, LA.....	16.0	10.6	11.1
Montauk, NY.....	13.2	9.6	14.2	Bon Secour-Gulf Shores, AL.	12.5	9.7	11.1
Grand Isle, LA.....	10.8	10.8	14.2	Fort Myers, FL.....	12.7	13.1	10.9
Bayou La Batre, AL.....	12.4	14.9	13.7	Panama City, FL.....	6.3	6.0	10.6
Panama City, FL.....	8.1	7.5	13.2	Crescent City, CA.....	16.0	15.0	10.5
Ilwaco-Chinook, WA.....	23.2	23.3	13.2	Anacortes-La Conner, WA....	8.8	13.5	10.4
Pilot Point-Ugashik, AK.....	(1)	(1)	12.7	Point Pleasant, NJ.....	7.4	8.4	9.6
Key West, FL.....	9.2	9.6	11.4	Blaine, WA.....	11.2	12.0	9.5
Bodega Bay, CA.....	14.0	11.2	11.0	Port Hueneme-Oxnard-Ventura, CA.....	10.0	12.0	9.2
Port Arthur, TX.....	6.2	11.5	10.9	Darien-Bellville, GA.....	7.0	4.0	9.0

(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.

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1990 (1)

Species	Distance caught off U.S. Shores						International Waters (Includes catch off foreign coasts)				Total	
	0 to 3 Miles		3 to 200 Miles									
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Alewives:												
Atlantic and Gulf.	3,062	409	27	2	-	-	-	-	-	-	3,089	411
Great Lakes. . . .	14,141	212	-	-	-	-	-	-	-	-	14,141	212
Anchovies.	1,426	312	11,763	2,411	-	-	-	-	-	-	13,189	2,723
Bluefish.	7,556	1,836	6,246	1,403	-	-	-	-	-	-	13,802	3,239
Bonito.	361	100	7,911	1,678	-	-	-	-	-	-	8,272	1,778
Butterfish.	853	469	5,679	2,865	-	-	-	-	-	-	6,532	3,334
Cod:												
Atlantic.	1,749	1,150	94,110	60,168	-	-	22	11	-	-	95,881	61,329
Pacific.	81,574	14,174	480,437	82,179	-	-	-	-	-	-	562,011	96,353
Croaker.	6,532	3,332	254	105	-	-	-	-	-	-	6,786	3,437
Cusk.	17	6	2,682	1,222	-	-	3	1	-	-	2,702	1,229
Flounders:												
Atlantic and Gulf:												
Blackback.	1,346	1,150	13,475	15,245	-	-	-	-	-	-	14,821	16,395
Fluke.	4,421	7,622	7,550	13,456	-	-	-	-	-	-	11,971	21,078
Yellowtail.	225	222	31,444	27,827	-	-	13	11	-	-	31,682	28,060
Other.	585	587	13,342	13,553	-	-	22	24	-	-	13,949	14,164
Pacific.	353,967	60,394	295,376	42,751	-	-	-	-	-	-	649,343	103,145
Total.	360,544	69,975	361,187	112,832	-	-	35	35	-	-	721,766	182,842
Groupers.	214	361	12,009	20,242	-	-	-	-	-	-	12,223	20,603
Haddock.	8	8	5,429	5,955	-	-	3	4	-	-	5,440	5,967
Hake:												
Pacific (whiting).	3,927	229	394,231	19,429	-	-	-	-	-	-	398,158	19,658
Red.	437	125	3,438	590	-	-	-	-	-	-	3,875	715
White.	68	19	11,345	4,443	-	-	6	4	-	-	11,419	4,466
Halibut.	47,341	63,634	23,113	33,066	-	-	-	-	-	-	70,454	96,700
Herring, sea:												
Atlantic.	31,753	1,738	81,342	4,008	-	-	-	-	-	-	113,095	5,746
Pacific.	108,120	32,178	-	-	-	-	-	-	-	-	108,120	32,178
Jack mackerel.	-	-	8,959	535	-	-	-	-	-	-	8,959	535
Lingcod.	1,100	150	6,193	2,161	-	-	-	-	-	-	7,293	2,311
Mackerel:												
Atlantic.	1,354	425	21,608	3,369	-	-	-	-	-	-	22,962	3,794
King.	419	433	3,834	4,338	-	-	-	-	-	-	4,253	4,771
Pacific.	23	4	83,698	5,077	-	-	-	-	-	-	83,721	5,081
Spanish.	1,805	726	3,973	1,859	-	-	-	-	-	-	5,778	2,585

See footnotes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1990 (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		Thousand pounds		Thousand dollars		Thousand pounds	Thousand dollars
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Menhaden										
Atlantic	816,199	39,513	470	21	-	-	-	-	816,669	39,534
Gulf	842,141	39,802	303,350	14,560	-	-	-	-	1,145,491	54,362
Total	1,658,340	79,315	303,820	14,581	-	-	-	-	1,962,160	93,896
Mullet	28,548	12,735	6	3	-	-	-	-	28,554	12,738
Ocean perch:										
Atlantic	4		1,318	702	-	-	-	-	1,322	703
Pacific	50,309	6,451	10,663	2,043	-	-	-	-	60,972	8,494
Pollock:										
Atlantic	108	49	20,915	10,453	19	14	-	-	21,042	10,516
Alaska	473,205	40,839	2,733,577	233,940	-	-	-	-	3,206,782	274,779
Rockfishes	77,799	11,068	92,668	29,464	-	-	-	-	170,467	40,532
Sablefish	7,699	5,322	82,103	53,542	-	-	-	-	89,802	58,864
Salmon:										
Chinook or king	20,471	36,952	5,282	10,276	-	-	-	-	25,753	47,228
Chum or keta	70,199	34,299	-	-	-	-	-	-	70,199	34,299
Pink	272,392	84,964	-	-	-	-	-	-	272,392	84,964
Red or sockeye	317,315	396,420	-	-	-	-	-	-	317,315	396,420
Silver or coho	45,372	46,697	2,115	2,759	-	-	-	-	47,487	49,456
Total	725,749	599,332	7,397	13,035	-	-	-	-	733,146	612,367
Scup or porgy	3,258	2,197	8,194	6,480	-	-	-	-	11,452	8,677
Sea bass:										
Black	672	904	4,352	4,708	-	-	-	-	5,024	5,612
White	48	104	75	161	-	-	-	-	123	265
Sea trout:										
Gray	6,339	3,960	3,541	1,817	-	-	-	-	9,880	5,777
Spotted	1,711	2,234	6	6	-	-	-	-	1,717	2,240
White	207	174	65	24	-	-	-	-	272	198
Sharks:										
Dogfish	6,659	862	29,134	2,939	-	-	-	-	35,793	3,801
Other	2,154	903	12,762	7,384	63	38	-	-	14,979	8,325
Snapper:										
Red	139	575	2,962	7,836	-	-	-	-	3,101	8,411
Other	808	1,507	6,314	11,331	-	-	-	-	7,122	12,838
Striped bass	1,028	1,378	27	75	-	-	-	-	1,055	1,453
Swordfish	884	1,983	11,841	36,367	1,072	2,501	-	-	13,797	40,851
Tilefish	-	-	3,400	5,770	-	-	-	-	3,400	5,770

(Continued)

See footnotes at end of table.

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1990 (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		Thousand pounds		Thousand dollars		Thousand pounds	Thousand dollars
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Tuna:										
Albacore	128	183	4,220	3,566	12,213	10,827	16,561	14,576		
Bigeye	923	3,329	2,967	10,969	1,160	3,464	5,050	17,762		
Bluefin	15	77	3,314	23,614	2,186	1,145	5,515	24,836		
Skipjack	536	1,086	1,100	2,185	250,871	100,366	252,507	103,637		
Yellowfin	1,973	4,930	13,560	30,788	217,588	112,290	233,121	148,008		
Unclassified	199	54	818	895	32	73	1,049	1,022		
Total	3,774	9,659	25,979	72,017	484,050	228,165	513,803	309,841		
Whiting	1,431	430	43,069	10,851	-	-	44,500	11,281		
Other marine finfishes	132,956	41,340	293,971	65,049	1,482	2,057	428,409	108,446		
Other freshwater finfishes	30,135	19,236	-	-	-	-	30,135	19,236		
Total fish	3,880,348	1,034,563	5,327,627	960,515	486,755	232,830	9,702,730	2,227,908		
Shellfish: et al										
Clams:										
Hard	9,833	41,889	-	-	-	-	9,833	41,889		
Ocean quahog	256	755	46,471	15,446	-	-	46,727	16,201		
Soft	5,756	22,362	-	-	-	-	5,756	22,362		
Surf	18,801	7,307	52,971	24,937	24,937	-	71,772	32,244		
Other	3,521	17,169	1,589	329	-	-	5,110	17,498		
Total	38,167	89,482	101,031	40,712	-	-	139,198	130,194		
Crabs:										
Blue, hard	201,831	77,378	7	3	-	-	201,838	77,381		
Dungeness	26,236	40,266	5,175	7,833	-	-	31,411	48,099		
King	16,959	73,419	16,958	73,416	-	-	33,917	146,835		
Snow (tanner)	10,330	16,537	203,065	169,662	-	-	213,395	186,199		
Other	8,214	7,384	10,641	17,939	-	-	18,855	25,323		
Total	263,570	214,984	235,846	268,853	-	-	499,416	483,837		
Lobsters:										
American	50,011	121,284	11,006	33,393	-	-	61,017	154,677		
Spiny	2,825	9,378	4,295	13,871	-	-	7,120	23,249		
Oysters	29,193	93,718	-	-	-	-	29,193	93,718		

See footnotes at end of table. (Continued)

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1990 (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		Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars				
Fish								
Scallops:								
Bay	539	3,102	-	-	-	-	539	3,102
Calico	-	-	1,135	1,281	-	-	1,135	1,281
Sea	1,783	7,270	38,134	146,426	-	-	39,917	153,696
Shrimp:								
New England	736	573	8,932	6,339	-	-	9,668	6,912
South Atlantic	19,680	46,779	8,773	8,593	-	-	28,453	55,372
Gulf	146,977	179,659	102,484	218,950	-	-	249,461	398,609
Pacific Coast	13,209	6,124	45,703	24,416	-	-	58,912	30,540
Total	180,602	233,135	165,892	258,298	-	-	346,494	491,433
Squid:								
Atlantic	4,449	2,089	55,360	19,089	-	-	59,809	21,178
Pacific	23,057	1,684	13,025	952	-	-	36,082	2,636
Other shellfish	87,600	60,245	10,454	13,594	-	-	98,054	73,839
Total shellfish et al.	681,796	836,371	636,178	796,469	-	-	1,317,974	1,632,840
Grand total, 1990	4,570,144	1,870,934	5,963,805	1,756,984	486,755	232,830	11,020,704	3,860,748
Grand total, 1989 (3)	4,174,398	1,702,865	5,970,345	1,628,875	510,042	233,404	10,654,785	3,565,144

(1) Landings are reported in round (live) weight for all items, except univalve 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) For individual species breakout see "Fisheries of the United States, 1989" 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. EZ (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.

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1990 (1)

Species	Distance caught off U.S. Shores		International Waters (Includes catch off foreign coasts)		Total	
	0 to 3 Miles Metric Tons Thousand dollars	3 to 200 Miles Metric Tons Thousand dollars	Metric Tons Thousand dollars	Metric Tons Thousand dollars	Metric Tons Thousand dollars	Metric Tons Thousand dollars
Alewives:						
Atlantic and Gulf.	1,389	409	12	2	1,401	411
Great Lakes.	6,414	212	-	-	6,414	212
Anchovies.	647	312	5,336	2,411	5,982	2,723
Bluefish.	3,427	1,836	2,833	1,403	6,261	3,239
Bonito.	164	100	3,588	1,678	3,752	1,778
Butterfish.	387	469	2,576	2,865	2,963	3,334
Cod:						
Atlantic.	793	1,150	42,688	60,168	43,491	61,329
Pacific.	37,002	14,174	217,925	82,179	254,927	96,353
Croaker.	2,963	3,332	115	105	3,078	3,437
Cusk.	8	6	1,217	1,222	1,226	1,229
Flounders:						
Atlantic and Gulf:						
Blackback.	611	1,150	6,112	15,245	6,723	16,395
Fluke.	2,005	7,622	3,425	13,456	5,430	21,078
Yellowtail.	102	222	14,263	27,827	14,371	28,060
Other.	265	587	6,052	13,553	6,327	14,164
Pacific.	160,558	60,394	133,982	42,751	294,540	103,145
Total.	163,542	69,975	163,833	112,832	327,391	182,842
Groupers.	97	361	5,447	20,242	5,544	20,603
Haddock.	4	8	2,463	5,955	2,468	5,967
Hake:						
Pacific (whiting).	1,781	229	178,822	19,429	180,603	19,658
Red.	198	125	1,559	590	1,758	715
White.	31	19	5,146	4,443	5,180	4,466
Halibut.	21,474	63,634	10,484	33,066	31,958	96,700
Herring, sea:						
Atlantic.	14,403	1,738	36,896	4,008	51,300	5,746
Pacific.	49,043	32,178	-	-	49,043	32,178
Jack mackerel.	-	-	4,064	535	4,064	535
Lingcod.	499	150	2,809	2,161	3,308	2,311
Mackerel:						
Atlantic.	614	425	9,801	3,369	10,415	3,794
King.	190	433	1,739	4,338	1,929	4,771
Pacific.	10	4	37,965	5,077	37,976	5,081
Spanish.	819	726	1,802	1,859	2,621	2,585

(Continued)

See footnotes at end of table.

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1990 (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		Metric tons		Thousand dollars		
	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	
Fish									
Menhaden									
Atlantic	370,225	39,513	213	21	-	-	-	-	370,439
Gulf	381,993	39,802	137,599	14,560	-	-	-	-	519,591
Total	752,218	79,315	137,812	14,581	-	-	-	-	890,030
Mullet	12,949	12,735	3	3	-	-	-	-	12,952
Ocean perch:									
Atlantic	2	1	598	702	-	-	-	-	600
Pacific	22,820	6,451	4,837	2,043	-	-	-	-	27,657
Pollock:									
Atlantic	49	49	9,487	10,453	9	14	-	-	9,545
Alaska	214,644	40,839	1,239,942	233,940	-	-	-	-	1,454,587
Rockfishes	35,289	11,068	42,034	29,464	-	-	-	-	77,323
Sablefish	3,492	5,322	37,242	53,542	-	-	-	-	40,734
Salmon:									
Chinook or king	9,286	36,952	2,396	10,276	-	-	-	-	11,681
Chum or keta	31,842	34,299	-	-	-	-	-	-	31,842
Pink	123,556	84,964	-	-	-	-	-	-	123,556
Red or sockeye	143,933	396,420	-	-	-	-	-	-	143,933
Silver or coho	20,581	46,697	959	2,759	-	-	-	-	21,540
Total	329,198	599,332	3,955	13,035	-	-	-	-	332,553
Scup or porgy	1,478	2,197	3,717	6,480	-	-	-	-	5,195
Sea bass:									
Black	305	904	1,974	4,708	-	-	-	-	2,279
White	22	104	34	161	-	-	-	-	56
Sea trout:									
Gray	2,875	3,960	1,606	1,817	-	-	-	-	4,482
Spotted	776	2,234	3	6	-	-	-	-	779
White	94	174	29	24	-	-	-	-	123
Sharks:									
Dogfish	3,021	862	13,215	2,939	-	-	-	-	16,236
Other	977	903	5,789	7,384	29	38	-	-	6,794
Snapper:									
Red	63	575	1,344	7,836	-	-	-	-	1,407
Other	367	1,507	2,864	11,331	-	-	-	-	3,231
Striped bass	466	1,378	12	75	-	-	-	-	479
Swordfish	401	1,983	5,371	36,367	486	2,501	-	-	6,258
Tilefish	-	-	1,542	5,770	-	-	-	-	1,542
Total	3,329,198	5,999,332	33,955	130,035	3,329,553	612,557	8,677	5,612	6,265

(Continued)

See footnotes at end of table.

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1990 (1) - Continued

Species	Distance caught off U.S. Shores			International Waters (Includes catch off foreign coasts)			Total		
	0 to 3 Miles Metric Tons	Thousands dollars	(2)	3 to 200 Miles Metric Tons	Thousands dollars	(3)		International Waters Metric Tons	Thousands dollars
Tuna:									
Albacore	58	183		1,914	5,566		1,544	11,527	7,511
Bigeye	419	3,329		1,346	10,969		526	3,464	2,291
Bluefin	7	77		1,503	23,614		992	1,145	2,502
Skipjack	243	1,086		499	2,185		113,794	360,566	103,637
Yellowfin	895	4,930		6,151	30,788		96,697	152,290	105,743
Unclassified	90	54		371	895		15	73	476
Total	1,712	9,659		11,784	72,017		219,564	228,165	233,060
Whiting	649	430		19,536	10,851		-	-	20,185
Other marine finfishes	60,308	41,340		133,344	65,049		672	2,057	194,325
Other freshwater finfishes	13,669	19,236		-	-		-	-	13,669
Total fish	1,763,743	1,034,563		2,416,596	960,515		220,791	232,830	4,401,129
Total	17,312	89,482		45,827	40,712		-	-	2,318
Crabs:									
Blue, hard	91,550	77,378		3	3		-	-	91,553
Dungeness	11,901	40,266		2,347	7,833		-	-	14,248
King	7,693	73,419		7,692	73,416		-	-	15,385
snow (tanner)	4,686	16,537		92,110	169,662		-	-	96,795
Other	3,726	7,384		4,827	17,939		-	-	8,553
Total	119,555	214,984		106,979	268,853		-	-	226,534
Lobsters:									
American	22,685	121,284		4,992	33,393		-	-	27,677
Spiny	1,281	9,378		1,948	13,871		-	-	3,230
Oysters	13,242	93,848		-	-		-	-	13,242

See footnotes at end of table. (Continued)

U.S. COMMERCIAL LANDINGS

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1990 (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		Metric tons		Thousand dollars		Metric tons	Thousand dollars
Fish	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Scallops:										
Bay	244	3,102	-	-	-	-	-	-	244	3,102
Calico	-	-	515	1,281	-	-	-	-	515	1,281
Sea	809	7,270	17,297	146,426	-	-	-	-	18,106	153,696
Shrimp:										
New England	334	573	4,052	6,339	-	-	-	-	4,385	6,912
South Atlantic	8,927	46,779	3,979	8,593	-	-	-	-	12,906	55,372
Gulf	66,668	179,659	46,486	218,950	-	-	-	-	113,155	398,609
Pacific Coast	5,992	6,124	20,731	24,416	-	-	-	-	26,722	30,540
Total	81,921	233,135	75,248	258,298	-	-	-	-	157,169	491,433
Squid:										
Atlantic	2,018	2,089	25,111	19,089	-	-	-	-	27,129	21,178
Pacific	10,459	1,684	5,908	952	-	-	-	-	16,367	2,636
Other shellfish	39,735	60,115	4,742	13,594	-	-	-	-	44,477	73,709
Total shellfish et al.	309,261	836,371	288,568	796,469	-	-	-	-	597,829	1,632,840
Grand total, 1990	2,073,004	1,870,934	2,705,164	1,756,984	220,791	232,830	4,998,959	3,860,748		
Grand total, 1989 (3)	1,893,495	1,702,865	2,708,131	1,628,875	231,354	233,404	4,832,979	3,565,144		

(1) Landings are reported in round (live) weight for all items, except univalve 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) For individual species breakout see "Fisheries of the United States, 1989" pages 6-9.

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U.S. COMMERCIAL LANDINGS

HISTORICAL FISHERY STATISTICS

SUMMARY OF PACIFIC COAST SALMON LANDINGS, BY STATE, 1920-1990 (1)

YEAR	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL
	<u>Thousand pounds</u>	<u>Thousand pounds</u>	<u>Thousand pounds</u>	<u>Thousand pounds</u>	<u>Thousand pounds</u>
1920 (2)	333,300	-	-	11,134	344,434
1921 (2)	209,700	-	-	7,991	217,691
1922	352,300	37,356	18,093	7,235	414,984
1923	385,100	71,719	27,279	7,090	491,188
1924	403,400	58,626	33,319	10,015	505,360
1925	344,300	95,965	34,358	9,526	484,149
1926	508,600	51,657	26,822	6,084	593,163
1927	283,000	97,212	28,069	6,512	414,793
1928	466,900	53,838	22,575	4,479	547,792
1929	411,400	116,745	20,102	5,045	553,292
1930	391,700	72,747	20,865	6,003	491,315
1931	414,700	107,448	20,491	5,421	548,060
1932	405,900	52,238	19,151	4,699	481,988
1933	398,900	82,783	19,339	4,570	505,592
1934	565,600	62,565	20,207	4,320	652,692
1935	398,800	67,008	26,785	5,657	498,250
1936	643,700	37,427	21,582	5,022	707,731
1937	513,100	63,653	25,100	6,908	608,761
1938	527,800	39,581	20,822	3,832	592,035
1939	407,100	51,916	20,162	2,734	481,912
1940	395,700	34,886	19,818	6,675	457,079
1941	526,100	57,915	24,750	3,791	612,556
1942	392,300	48,290	22,825	6,616	470,031
1943	418,200	30,250	12,270	6,581	467,301
1944	379,200	22,754	16,647	10,287	428,888
1945	353,100	64,990	17,877	13,381	449,348
1946	326,200	55,171	17,738	13,658	412,767
1947	338,000	84,121	20,631	11,485	454,237
1948	313,200	38,797	18,815	7,769	378,581
1949	347,600	76,591	12,838	6,430	443,459
1950	259,600	44,771	11,885	7,069	323,325
1951	279,200	76,535	13,907	7,193	376,835
1952	286,700	48,920	13,112	7,274	356,006
1953	231,400	73,475	10,194	7,989	323,058
1954	257,000	59,372	8,812	9,499	334,683
1955	195,800	61,754	12,471	11,980	282,005
1956	242,800	28,700	14,239	11,412	297,151
1957	204,700	44,847	11,370	5,499	266,416
1958	241,255	54,363	8,179	3,657	307,454
1959	147,278	42,308	5,329	6,769	201,684

See footnotes at end of table.

(Continued)

HISTORICAL FISHERY STATISTICS

SUMMARY OF PACIFIC COAST SALMON LANDINGS, BY STATE, 1920-1990 (1)

YEAR	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL
	<u>Thousand pounds</u>	<u>Thousand pounds</u>	<u>Thousand pounds</u>	<u>Thousand pounds</u>	<u>Thousand pounds</u>
1960	207,100	16,528	5,598	6,221	235,447
1961	264,814	29,898	7,048	8,638	310,398
1962	277,848	22,852	7,193	6,673	314,566
1963	223,063	54,993	8,262	7,859	294,177
1964	311,623	21,275	9,867	9,481	352,246
1965	274,844	30,418	11,806	9,738	326,806
1966	333,325	32,367	12,373	9,447	387,512
1967	138,517	53,374	17,371	7,402	216,664
1968	285,272	25,754	9,631	6,952	327,609
1969	219,150	31,978	10,549	6,151	267,828
1970	346,465	37,601	19,442	6,611	410,119
1971	251,705	55,009	16,972	8,117	331,803
1972	179,687	33,958	11,736	6,424	231,805
1973	136,493	58,540	16,944	9,669	221,646
1974	131,607	45,921	15,197	8,749	201,474
1975	137,516	45,181	12,382	6,925	202,004
1976	245,858	41,183	15,261	7,773	310,075
1977	307,379	53,072	10,715	5,919	377,085
1978	349,272	38,076	10,540	6,600	404,488
1979	467,719	49,085	10,518	8,792	536,114
1980	567,066	33,832	7,004	5,907	613,809
1981	589,493	46,011	6,979	5,956	648,439
1982	542,882	48,035	8,583	7,918	607,418
1983	608,675	25,618	2,591	2,407	639,291
1984	658,435	26,960	3,039	2,974	691,408
1985	651,580	64,619	6,103	4,636	726,938
1986	589,636	48,093	13,370	7,411	658,510
1987	489,417	48,880	14,418	9,282	561,997
1988	526,421	47,407	17,488	14,739	606,055
1989	713,027	55,293	11,476	5,666	785,462
1990	689,741	33,280	5,242	4,413	732,676

(1) Data for 1978 through 1990 are preliminary.

(2) Data not available for Washington and Oregon.

NOTE:--In 1958 Alaska obtained statehood and changes were made in their processing of fisheries data. Estimated average weights of salmon taken were determined for each region. These weights were used to convert number of salmon to pounds. In previous years identical factors were used for all regions, therefore, data in this historical table differ from previously published information due to changes made in converting number of fish to pounds.

U.S. COMMERCIAL LANDINGS

HISTORICAL FISHERY STATISTICS

SUMMARY OF PACIFIC COAST SALMON LANDINGS, BY SPECIES, 1920-1990 (1)

YEAR	CHINOOK	CHUM	PINK	RED OR	SILVER	GRAND
	OR KING	OR KETA		SOCKEYE	OR COHO	TOTAL
	<u>Thousand pounds</u>	<u>Thousand pounds</u>	<u>Thousand pounds</u>	<u>Thousand pounds</u>	<u>Thousand pounds</u>	<u>Thousand pounds</u>
1920 (2)	287,334	74,400	118,400	109,600	14,700	344,434
1921 (2)	23,891	19,500	33,500	130,500	10,300	217,691
1922	44,855	48,948	125,245	161,840	34,096	414,984
1923	50,668	49,727	214,297	143,329	33,167	491,188
1924	69,719	90,017	193,298	111,289	41,037	505,360
1925	71,502	93,631	191,609	87,865	39,542	484,149
1926	56,391	84,296	247,528	161,931	43,017	593,163
1927	64,082	54,526	146,570	104,051	45,564	414,793
1928	46,317	98,966	207,761	146,324	48,424	547,792
1929	49,948	89,022	241,950	133,002	39,370	553,292
1930	(3) 54,043	59,868	236,472	86,703	(3) 54,229	491,315
1931	(3) 53,034	53,294	275,035	130,516	(3) 36,181	548,060
1932	(3) 49,093	81,246	156,469	158,704	(3) 36,476	481,988
1933	(3) 46,614	59,271	200,199	168,566	(3) 30,942	505,592
1934	44,332	67,996	283,391	214,297	42,676	652,692
1935	44,732	75,312	266,277	64,154	47,775	498,250
1936	49,231	97,609	338,024	184,790	38,077	707,731
1937	55,992	68,535	293,725	159,842	30,667	608,761
1938	41,559	73,831	239,639	194,491	42,515	592,035
1939	39,677	52,887	211,283	147,076	30,989	481,912
1940	41,787	77,528	216,849	76,755	44,160	457,079
1941	48,760	68,930	356,829	97,295	40,742	612,556
1942	49,027	88,591	208,382	83,688	40,343	470,031
1943	38,169	77,576	176,494	144,977	30,085	467,301
1944	40,830	82,022	155,725	116,965	33,346	428,888
1945	47,498	62,494	200,280	90,550	48,526	449,348
1946	(3) 13,658	69,117	152,302	100,694	(3) 36,269	412,767
1947	54,880	44,956	179,746	138,983	35,672	454,237
1948	46,699	70,510	97,002	125,362	39,008	378,581
1949	40,312	43,540	244,515	78,058	37,034	443,459
1950	37,361	70,587	81,445	93,079	40,853	323,325
1951	43,910	66,300	149,878	68,464	48,283	376,835
1952	38,691	83,299	87,110	105,500	41,406	356,006
1953	39,418	64,925	104,593	85,589	28,533	323,058
1954	36,607	83,849	85,602	95,369	33,256	334,683
1955	42,742	31,510	126,083	55,458	26,212	282,005
1956	38,397	54,859	88,205	86,517	29,173	297,151
1957	28,234	65,208	73,169	76,911	22,894	266,416
1958	27,583	68,011	120,721	67,812	23,327	307,454
1959	27,414	38,535	61,740	53,790	20,205	201,684

See footnotes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

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HISTORICAL FISHERY STATISTICS

SUMMARY OF PACIFIC COAST SALMON LANDINGS, BY SPECIES, 1920-1990 (1)

YEAR	CHINOOK	CHUM	PINK	RED OR	SILVER	GRAND
	OR KING	OR KETA		SOCKEYE	OR COHO	
	<u>Thousand pounds</u>	<u>Thousand pounds</u>	<u>Thousand pounds</u>	<u>Thousand pounds</u>	<u>Thousand pounds</u>	<u>Thousand pounds</u>
1960	24,057	49,811	52,588	95,326	13,665	235,447
1961	26,962	48,138	108,452	103,645	23,201	310,398
1962	25,111	60,345	143,309	58,049	27,752	314,566
1963	27,179	38,840	156,603	43,424	28,131	294,177
1964	28,732	65,842	162,325	57,276	38,071	352,246
1965	29,316	31,266	79,655	148,054	38,515	326,806
1966	27,223	56,506	163,016	102,012	38,755	387,512
1967	26,181	34,459	51,721	66,013	38,290	216,664
1968	25,838	61,466	148,472	54,047	37,786	327,609
1969	28,028	24,816	112,214	81,444	21,326	267,828
1970	31,685	57,396	117,762	159,568	43,708	410,119
1971	30,501	56,423	99,096	105,913	39,870	331,803
1972	26,863	74,308	50,000	49,114	31,520	231,805
1973	35,992	52,655	49,423	50,709	32,867	221,646
1974	28,315	42,388	40,085	48,778	41,908	201,474
1975	29,771	33,061	58,251	52,316	28,605	202,004
1976	30,089	56,815	102,431	83,659	37,081	310,075
1977	35,310	65,563	143,645	101,128	31,439	377,085
1978	29,776	50,485	194,873	98,707	30,647	404,488
1979	33,008	45,784	226,830	190,727	39,765	536,114
1980	28,533	84,916	253,541	207,551	39,268	613,809
1981	31,071	98,880	257,106	226,173	35,209	648,439
1982	34,602	92,023	221,472	200,172	59,149	607,418
1983	24,424	79,920	194,140	310,146	30,661	639,291
1984	21,711	113,340	275,615	229,666	51,076	691,408
1985	27,187	92,499	319,139	236,077	52,036	726,938
1986	30,845	86,459	268,646	212,212	60,348	658,510
1987	39,927	86,320	169,308	227,411	39,031	561,997
1988	45,672	146,467	176,487	190,036	47,393	606,055
1989	31,466	68,685	367,898	274,051	43,362	785,462
1990	25,753	70,199	272,392	317,315	47,017	732,676

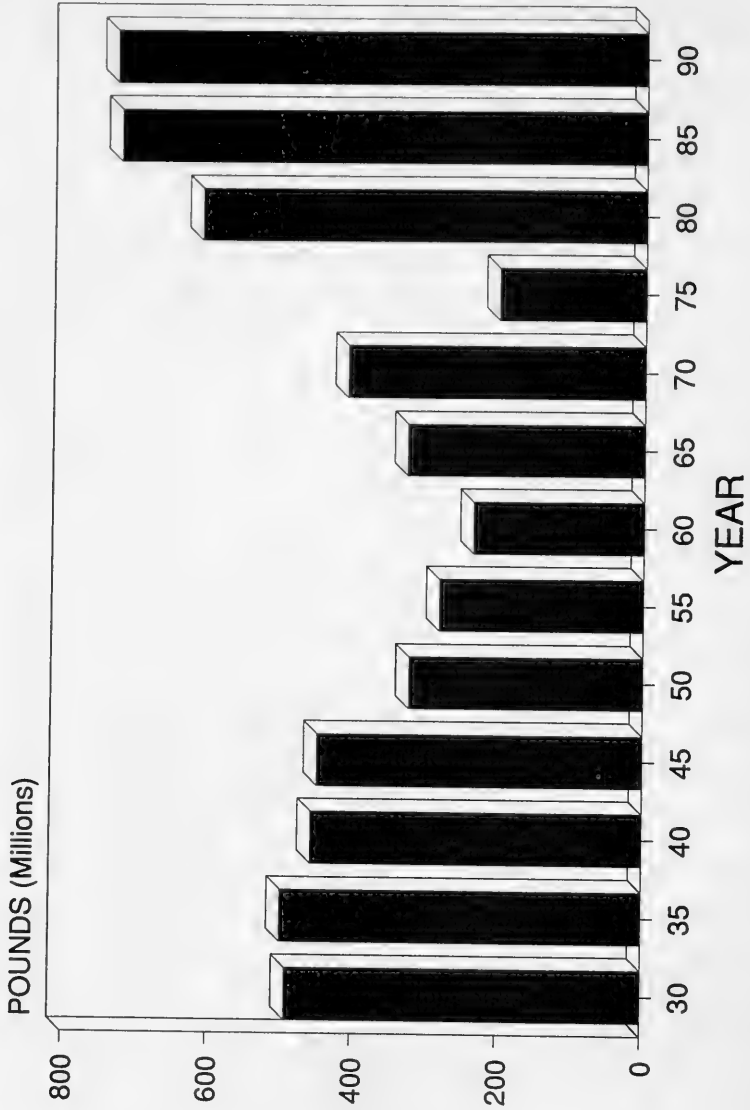
(1) Data for 1978 through 1990 are preliminary.

(2) Data include Alaska only for all species except chinook or king where California is included.

(3) Silver or coho landed in California were combined with chinook or king.

NOTE:--In 1958 Alaska obtained statehood and changes were made in their processing of fisheries data. Estimated average weights of salmon taken were determined for each region. These weights were used to convert number of salmon to pounds. In previous years identical factors were used for all regions, therefore, data in this historical table differ from previously published information due to changes made in converting number of fish to pounds.

HISTORICAL TOTAL U.S. SALMON LANDINGS, 1930 - 1990



JOINT VENTURES

JOINT VENTURE CATCHES BY U.S.-FLAG VESSELS, BY SPECIES, 1983-1990

Species	1983		1984		1985		1986	
	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Alewives.....	-	-	9	1	-	-	(1)	(1)
Atka mackerel.....	11,302	1,514	36,493	5,632	39,938	6,109	31,991	4,828
Cod.....	16,749	3,474	38,512	8,546	36,373	7,799	66,015	14,449
Flounders.....	36,958	5,287	54,372	7,605	179,663	24,833	215,878	28,847
Hake, Pacific (whiting)	(1)	(1)	(1)	(1)	(1)	(1)	81,639	8,736
Ocean perch.....	2,114	616	2,313	689	281	56	273	72
Mackerel, Atlantic.....	(1)	(1)	1,423	220	3,788	584	(1)	(1)
Pollock, Alaska.....	283,104	26,083	444,256	41,591	614,337	59,730	904,111	95,294
Rockfishes.....	311	94	346	105	70	14	215	57
Sablefish.....	363	141	871	396	94	30	434	137
Whiting.....	(1)	(1)	(1)	(1)	-	-	65	9
Squid:								
Illex.....	8,344	1,840	6,010	2,000	2,540	595	(1)	(1)
Loligo.....	2,332	1,646	760	395	1,082	599	(1)	(1)
Other fish (2).....	73,371	10,555	79,192	11,862	33,060	3,971	9,766	2,470
Total.....	434,948	51,250	664,557	79,042	911,226	104,320	1,310,387	154,899
Species	1987		1988		1989		1990	
	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Alewives.....	22	(3)	-	-	-	-	-	-
Atka mackerel.....	30,030	4,775	19,619	3,571	-	-	-	-
Cod.....	59,521	15,334	111,526	30,429	44,424	12,495	8,078	1,763
Flounders.....	224,250	33,272	330,118	53,763	193,430	34,179	99,586	23,527
Hake, Pacific (whiting)	105,997	11,653	135,781	14,660	203,578	21,628	170,973	18,429
Ocean perch.....	556	173	-	-	-	-	-	-
Mackerel, Atlantic.....	8,012	1,058	5,685	760	(1)	(1)	(1)	(1)
Pollock, Alaska.....	1,057,315	134,302	826,564	116,102	287,755	40,378	22,397	2,139
Rockfishes.....	320	100	2,103	705	-	-	-	-
Sablefish.....	123	37	51	14	-	-	-	-
Whiting.....	5	(3)	-	-	-	-	-	-
Squid:								
Illex.....	3,140	628	(1)	(1)	-	-	-	-
Loligo.....	993	745	-	-	-	-	-	-
Other fish (2).....	510	56	20,738	1,086	42,061	3,485	62,100	5,483
Total.....	1,490,794	202,133	1,452,183	221,090	771,248	112,165	363,733	51,341

(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 1990
 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 and Gulf for 1990 are presented in the following tables. Summary graphs for 1981-1990 catch and trips are also shown. The survey is being conducted in 1991 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 on the Atlantic and Gulf coasts. 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.

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 1990 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 1990 survey did not include Texas or the January and February period for Georgia, South Carolina and the Atlantic coast states north of North Carolina. The data presented below will be finalized in a separate MRFSS report to be published later this year.

PRELIMINARY 1990 MRFSS DATA. The Atlantic and Gulf coasts marine recreational finfish catch in 1990 was an estimated 230.9 million fish. These fish weighed approximately 317.7 million pounds and were taken on an estimated 39.8 million fishing trips.

In terms of number of fish, frequently caught species in 1990 were herrings, spot, bluefish, Atlantic croaker and black sea bass. Top-ranked species in each subregion in 1990 were scup in the North Atlantic, spot in the Mid-Atlantic, bluefish in the South Atlantic, and herrings in the Gulf of Mexico. The Gulf (41 percent) and Mid-Atlantic (36 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 86 percent of the Atlantic and Gulf coasts catch in number. The remaining 14 percent of the catch in number was from the Exclusive Economic Zone (EEZ), the principal area of NMFS management authority. However, for some species (e.g., red snapper) over 75 percent of the catch was made in the EEZ.

Sixty-five percent of the Atlantic and Gulf coasts catch was taken in the private/rental boat mode in 1990. However, other modes were im-

portant for a particular species such as king mackerel from the charter boat mode and kingfishes from the shore mode. Overall, shore mode catches were 25 percent of the total and party/charter boat catches (excluding South Atlantic and Gulf partyboats) were 10 percent of the total.

Coastal residents accounted for 74 percent of the Atlantic and Gulf trips made in 1990. Non-residents accounted for an additional 22 percent of the trips. Total trips in the Mid-Atlantic exceeded all other subregions.



U.S. MARINE RECREATIONAL FISHERIES

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL ANGLERS BY SPECIES GROUP AND SUBREGION: ATLANTIC AND GULF COASTS, JANUARY 1990 - DECEMBER 1990

Species group	North Atlantic	Mid-Atlantic	South Atlantic	Gulf of Mexico	Total
----- Thousands -----					
Herrings.....	298	355	1,456	16,684	18,792
Saltwater catfishes.....	*	*	1,471	10,114	11,585
Black sea bass.....	86	9,217	1,095	2,465	12,862
Bluefish.....	2,865	9,011	3,319	370	15,565
Red snapper.....	*	*	-	758	773
Scup.....	5,210	5,273	-	*	10,484
Pinfish.....	*	76	1,764	4,697	6,536
Sheepshead.....	*	-	722	2,935	3,658
Spotted seatrout.....	*	110	1,315	10,237	11,662
Weakfish.....	-	1,743	161	*	1,904
Sand seatrout.....	*	*	*	4,125	4,125
Spot.....	*	14,780	2,763	358	17,901
Kingfishes.....	-	352	1,895	634	2,882
Atlantic croaker.....	*	6,078	3,172	3,794	13,044
Red drum.....	*	-	475	2,253	2,730
Mulletts.....	*	142	1,231	2,221	3,593
King mackerel.....	*	-	503	499	1,004
Summer flounder.....	204	7,138	1,098	*	8,440
Winter flounder.....	1,721	2,033	*	*	3,753
Other fishes.....	9,863	25,672	11,969	32,074	79,577
Total.....	20,248	81,986	34,423	94,216	230,872

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 ANGLERS BY SPECIES GROUP AND FISHING MODE: ATLANTIC AND GULF COASTS, JANUARY 1990 - DECEMBER 1990

Species group	Shore	Charter Boats	Party/ Charter Boats	Private/ Rental Boats	Total
----- Thousands -----					
Herrings.....	9,823	143	39	8,788	18,792
Saltwater catfishes.....	3,428	58	*	8,100	11,585
Black sea bass.....	1,368	308	3,360	7,826	12,862
Bluefish.....	5,086	67	2,005	8,408	15,565
Red snapper.....	67	239	*	466	773
Scup.....	652	*	2,095	7,738	10,484
Pinfish.....	2,875	51	-	3,604	6,536
Sheepshead.....	568	88	*	3,003	3,658
Spotted seatrout.....	1,097	213	-	10,351	11,662
Weakfish.....	45	-	287	1,572	1,904
Sand seatrout.....	433	-	*	3,669	4,125
Spot.....	3,645	-	1,433	12,824	17,901
Kingfishes.....	1,853	-	-	1,017	2,882
Atlantic croaker.....	2,210	-	108	10,722	13,044
Red drum.....	406	75	*	2,249	2,730
Mulletts.....	1,868	*	*	1,725	3,593
King mackerel.....	182	371	-	451	1,004
Summer flounder.....	1,022	-	744	6,673	8,440
Winter flounder.....	762	*	234	2,758	3,753
Other fishes.....	19,478	5,567	6,685	47,848	79,577
Total.....	56,868	7,207	17,008	149,790	230,872

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 Charter Boats are for the South Atlantic and Gulf of Mexico subregions (without Texas). Figures for Party/Charter Boats are for the North and Mid- Atlantic subregions. Row and column totals may not add due to rounding.

U.S. MARINE RECREATIONAL FISHERIES

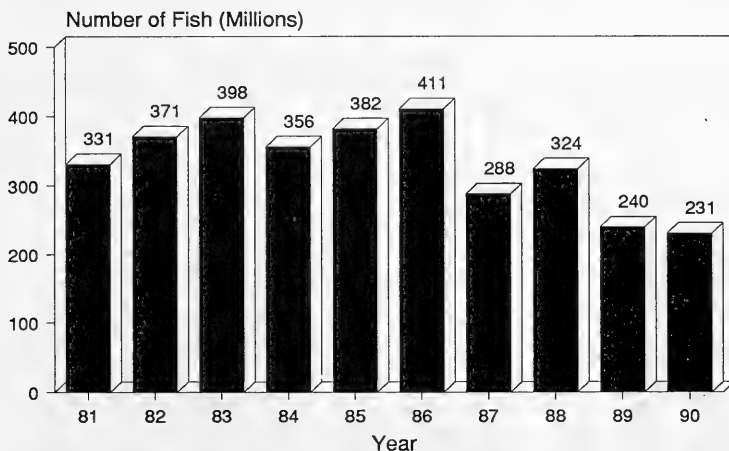
ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL ANGLERS BY SPECIES GROUP AND AREA OF FISHING:

ATLANTIC AND GULF COASTS, JANUARY 1990 - DECEMBER 1990

Species group	Ocean				Inland	Total
	3 Mi or less	Over 3 Mi	10 Mi or less	Over 10 Mi		
----- Thousands -----						
Herrings.....	1,221	265	2,468	99	14,740	18,792
Saltwater catfishes..	2,491	487	705	43	7,859	11,585
Black sea bass.....	1,488	3,993	934	681	5,766	12,862
Bluefish.....	5,412	1,765	121	-	8,265	15,565
Red snapper.....	66	515	108	75	-	773
Scup.....	3,479	956	*	-	6,048	10,484
Pinfish.....	676	69	1,436	220	4,135	6,536
Sheepshead.....	656	95	151	-	2,752	3,658
Spotted seatrout.....	1,870	346	2,068	89	7,290	11,662
Weakfish.....	458	323	*	*	1,124	1,904
Sand seatrout.....	1,621	744	368	43	1,349	4,125
Spot.....	2,382	290	-	*	15,227	17,901
Kingfishes.....	1,471	46	241	-	1,110	2,882
Atlantic croaker.....	2,093	164	57	-	10,729	13,044
Red drum.....	620	118	352	34	1,606	2,730
Mulletts.....	653	51	130	*	2,759	3,593
King mackerel.....	192	393	331	82	-	1,004
Summer flounder.....	3,278	429	*	*	4,733	8,440
Winter flounder.....	953	65	*	*	2,735	3,753
Other fishes.....	14,294	12,127	11,188	7,309	34,659	79,577
Total.....	45,374	23,242	20,661	8,696	132,899	230,872

Note:--"Ocean 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.

MARINE RECREATIONAL FISHERIES CATCH ATLANTIC AND GULF COASTS, 1981 - 1990



Note: 1990 data are provisional.

U.S. MARINE RECREATIONAL FISHERIES

**ESTIMATED TOTAL NUMBER OF FISHING TRIPS BY MARINE RECREATIONAL ANGLERS
BY SUBREGION AND AREA OF RESIDENCE:
ATLANTIC AND GULF COASTS, JANUARY 1990 - DECEMBER 1990**

Subregion	Trips by coastal residents	Trips by non-coastal residents	Non-resident trips	Total
----- Thousands -----				
North Atlantic.....	3,906	354	1,540	5,800
Mid-Atlantic.....	9,709	327	2,696	12,732
South Atlantic.....	8,101	632	2,369	11,102
Gulf of Mexico (1).....	7,634	251	2,265	10,150
Total (2).....	29,350	1,564	8,870	39,784

(1) Excludes estimates for Texas.

(2) Excludes January/February trips from Maine through Georgia, November/December trips from Maine and New Hampshire, and partyboat trips from the South Atlantic and Gulf of Mexico subregions.

**ESTIMATED TOTAL NUMBER OF FISHING TRIPS BY MARINE RECREATIONAL ANGLERS
BY SUBREGION AND MODE OF FISHING:
ATLANTIC AND GULF COASTS, JANUARY 1990 - DECEMBER 1990**

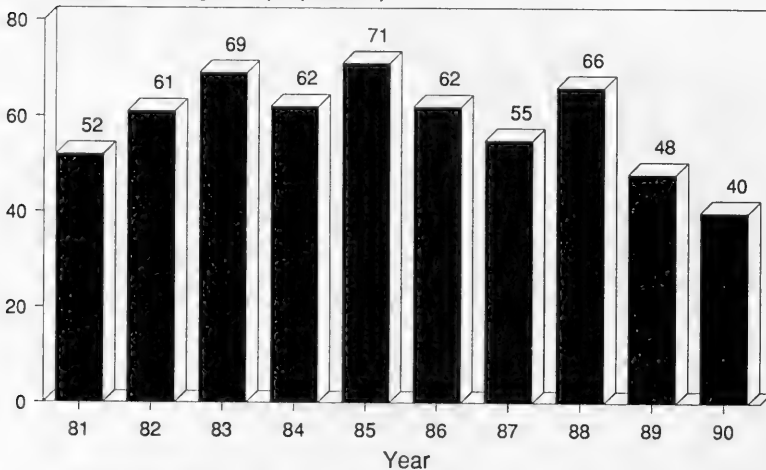
Subregion	Shore	Charter Boats	Party/Charter Boats	Private/Rental Boats	Total
----- Thousands -----					
North Atlantic.....	2,324	*	532	2,944	5,800
Mid-Atlantic.....	3,745	*	1,592	7,395	12,732
South Atlantic.....	5,832	482	*	4,788	11,102
Gulf of Mexico (1)....	3,812	527	*	5,811	10,150
Total (2).....	15,713	1,009	2,124	20,938	39,784

(1) Excludes estimates for Texas.

(2) Excludes January/February trips from Maine through Georgia, November/December trips from Maine and New Hampshire, and partyboat trips from the South Atlantic and Gulf of Mexico subregions.

MARINE RECREATIONAL FISHING TRIPS ATLANTIC AND GULF COASTS, 1981 - 1990

Number of Angler Trips (Millions)



Note: 1990 data are provisional.

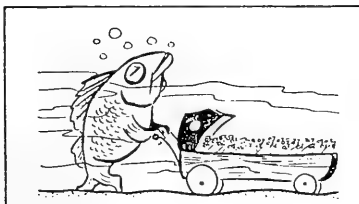
FOREIGN CATCH

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ),
BY COUNTRY, 1989 AND 1990

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-----						
1990:						
German Democratic Republic.....	9,207.7	-	-	-	-	9,207.7
Poland.....	(2)	-	-	-	-	(2)
Grand Total.....	9,207.7	-	-	-	-	9,207.7
1989:						
European Economic Community, Netherlands.	(3)	-	-	-	-	(3)
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

(1) Cape Hatteras, North Carolina, northward. (2) Included with German Democratic Republic other finfish. (3) 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, 1989 AND 1990

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-----						
1990:						
Butterfish.....	(2)	-	-	-	-	(2)
Hake:						
Atlantic, silver (whiting).....	(2)	-	-	-	-	(2)
Herrings, river (alewives)	14.1	-	-	-	-	14.1
Mackerel, Atlantic.....	8,670.6	-	-	-	-	8,670.6
Other finfish.....	523.0	-	-	-	-	523.0
Total fish.....	9,207.7	-	-	-	-	9,207.7
Squid, Atlantic:						
Short-finned.....	(2)	-	-	-	-	(2)
Long-finned.....	(2)	-	-	-	-	(2)
Total shellfish.....	(2)	-	-	-	-	(2)
Grand total.....	9,207.7	-	-	-	-	9,207.7
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

(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, 1988-90

Country and species	1988	1989	1990
	-----Metric tons, round weight-----		
European Economic Community:			
Netherlands:			
Hake, silver (whiting).....	-	(1)	-
Herring, river (alewives)....	5.3	(1)	-
Mackerel, Atlantic.....	12,347.3	(1)	-
Other finfish.....	27.5	(1)	-
Squid: Short-finned.....	-	(1)	-
Long-finned.....	1.2	(1)	-
Total.....	12,381.3	(1)	-
Total, European Economic Community.....	12,381.3	(1)	-
German Democratic Republic:			
Butterfish.....	(2)	0.9	(2)
Hake:			
Red.....	(2)	-	-
Silver (whiting).....	3.8	7.2	(2)
Herring, river (alewives)....	28.3	22.2	14.1
Mackerel, Atlantic.....	20,909.9	17,909.8	8,670.6
Other finfish.....	161.1	67.1	523.0
Squid: Short-finned.....	-	(2)	-
Long-finned.....	1.4	1.6	(2)
Total.....	21,104.5	18,008.8	9,207.7
Poland:			
Butterfish.....	(2)	(2)	(3)
Hake: Red.....	-	(2)	-
Silver (whiting).....	0.7	11.1	(3)
Herring, river (alewives)....	40.4	28.0	(3)
Mackerel, Atlantic.....	9,621.5	7,499.1	(3)
Other finfish.....	104.8	63.4	(3)
Squid: Short-finned.....	-	-	(3)
Long-finned.....	0.8	1.9	-
Total.....	9,768.2	7,603.5	(3)
USSR:			
Hake, silver (whiting).....	-	(2)	-
Herring, river (alewives)....	-	26.0	-
Mackerel, Atlantic.....	-	11,414.1	-
Other finfish.....	-	49.3	-
Squid: Short-finned.....	-	(2)	-
Long-finned.....	-	(2)	-
Total.....	-	11,489.4	-
Grand total.....	43,254.0	37,101.7	9,207.7

(1) Included with USSR catch. (2) Included with other finfish. (3) Included with German Democratic Republic 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.

U.S. EXCLUSIVE ECONOMIC ZONE

FOREIGN CATCH

WASHINGTON, OREGON, AND CALIFORNIA:
FOREIGN CATCH, BY COUNTRY AND SPECIES, 1988-90

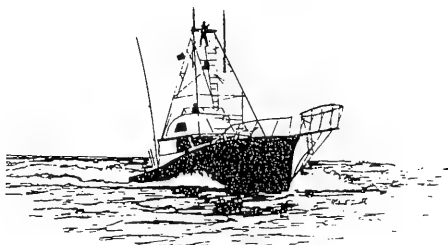
Country and species	1988	1989	1990
	-----Metric tons, round weight-----		
Poland:			
Flounders (flatfish).....	2.5	-	-
Hake, Pacific (whiting).....	18,041.0	-	-
Jack mackerel.....	48.5	-	-
Ocean perch, Pacific.....	2.5	-	-
Rockfishes.....	149.1	-	-
Sablefish.....	26.9	-	-
Other finfishes.....	67.7	-	-
<i>Total.....</i>	<i>18,338.2</i>	-	-

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

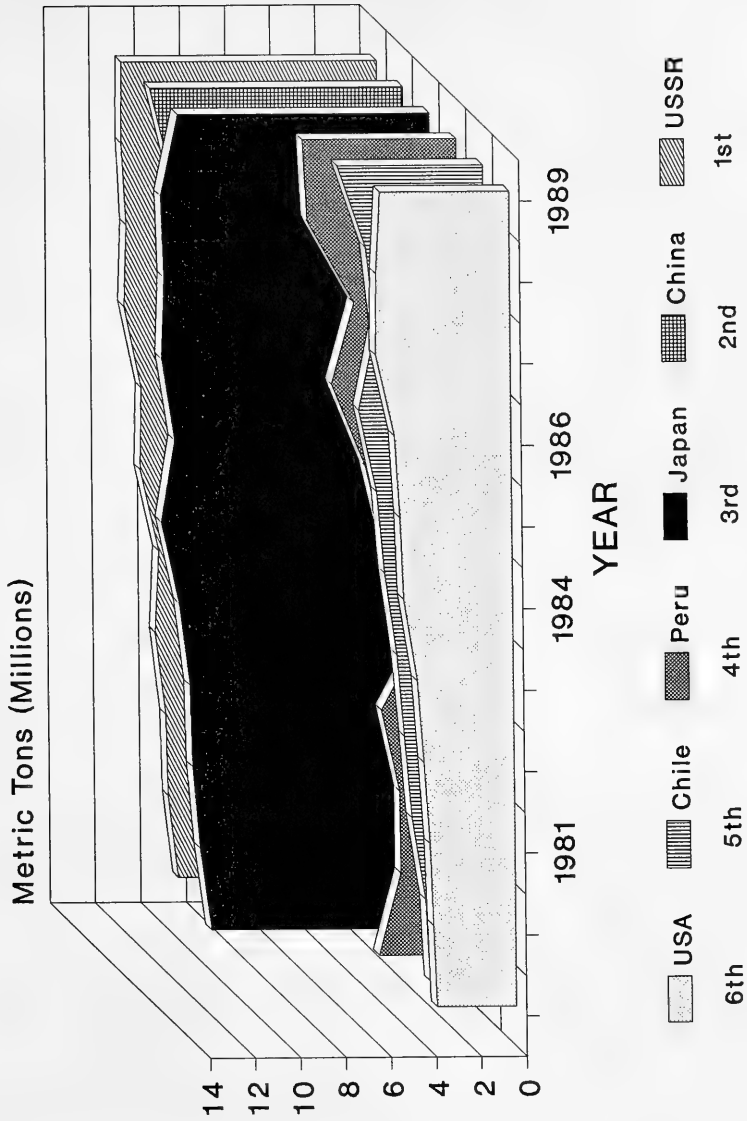
EASTERN BERING SEA AND ALEUTIAN ISLANDS:
FOREIGN CATCH, BY COUNTRY AND SPECIES, 1988-90

Country and species	1988	1989	1990
	-----Metric tons, round weight-----		
USSR, Snail (meats).....	-	122.0	-

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



WORLD COMMERCIAL CATCH BY LEADING COUNTRIES 1979 - 1989



WORLD FISHERIES

U.S. AND WORLD COMMERCIAL FISH CATCHES, 1954-89

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			
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	4.9	2.3	10.7	1.0	74.7	75.7	86.4
1986....	2.7	5.2	2.8	11.8	4.9	76.1	81.0	92.8
1987....	3.1	6.0	3.1	12.7	2.1	79.5	81.6	94.3
1988....	3.3	5.9	3.5	13.4	3.6	81.8	85.4	98.8
1989....	3.8	5.7	3.2	13.8	5.4	80.3	85.7	99.5

(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 1970-1989, 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 FISHERIES

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WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY COUNTRIES, 1985-89 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Country	1985 (1)	1986 (1)	1987 (1)	1988 (1)	1989
	-----Thousand metric tons-----				
	Live weight				
USSR.....	10,523	11,260	11,160	11,332	11,310
China.....	6,779	8,000	9,346	10,359	11,220
Japan.....	11,409	11,976	11,849	11,967	11,174
Peru.....	4,137	5,614	4,584	6,638	6,832
Chile.....	4,804	5,572	4,815	5,210	6,454
United States (2).	4,949	5,167	5,986	5,937	5,744
India.....	2,826	2,923	2,908	3,126	3,619
Republic of Korea.	2,650	3,103	2,876	2,727	2,832
Thailand.....	2,225	2,536	2,779	2,822	2,823
Indonesia.....	2,333	2,457	2,585	2,703	2,700
Philippines.....	1,865	1,916	1,989	2,010	2,099
Denmark.....	1,765	1,849	1,706	1,972	1,927
Norway.....	2,119	1,914	1,949	1,840	1,900
Korea (3).....	1,700	1,700	1,700	1,700	1,700
Canada.....	1,453	1,510	1,562	1,597	1,554
Iceland.....	1,680	1,659	1,633	1,759	1,505
Mexico.....	1,226	1,316	1,419	1,372	1,417
Spain.....	1,483	1,434	1,393	1,430	1,370
South Africa.....	775	819	1,424	1,298	879
France.....	838	870	846	883	876
Vietnam.....	808	825	871	874	868
Brazil.....	967	941	934	829	850
Bangladesh.....	776	797	817	830	833
United Kingdom....	891	850	945	937	823
Ecuador.....	1,087	1,003	680	771	724
Burma.....	649	687	686	705	703
Malaysia.....	640	622	619	612	609
Poland.....	683	645	671	655	565
Italy.....	589	568	560	577	551
Morocco.....	473	595	494	552	520
New Zealand.....	305	345	431	503	514
Argentina.....	407	421	560	493	487
Turkey.....	578	583	628	676	457
Pakistan.....	408	416	428	445	445
Netherlands.....	504	455	446	399	422
Tanzania.....	301	310	342	393	387
Ghana.....	276	320	381	362	362
All others.....	8,517	8,798	9,272	9,468	9,480
Total.....	86,398	92,776	94,274	98,763	99,535

(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, 1989, Vol. 68, Rome.

WORLD FISHERIES

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY CONTINENT, 1985-89
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Continent	1985 (1)	1986 (1)	1987 (1)	1988 (1)	1989
-----Thousand metric tons----- Live weight					
North America.....	8,371	8,633	9,626	9,532	9,419
South America.....	11,931	14,121	12,155	14,480	15,953
Europe.....	12,951	12,721	12,615	12,893	12,241
USSR.....	10,523	11,260	11,160	11,332	11,310
Asia.....	37,753	40,765	42,577	44,269	44,795
Africa.....	4,262	4,592	5,338	5,378	4,953
Oceania.....	607	684	803	879	864
Total.....	86,398	92,776	94,274	98,763	99,535

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1989; Vol. 68, Rome.



WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY MAJOR FISHING AREAS, 1985-1989 (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Area	1985 (1)	1986 (1)	1987 (1)	1988 (1)	1989
-----Thousand metric tons----- Live weight					
Marine Areas:					
Pacific Ocean....	45,652	50,735	49,776	53,298	54,685
Atlantic Ocean...	25,092	25,069	26,355	26,340	24,992
Indian Ocean.....	4,957	5,213	5,415	5,721	6,081
Total.....	75,701	81,017	81,546	85,359	85,758
Inland waters:					
North America....	443	484	573	535	529
South America....	329	362	386	356	322
Europe.....	431	459	449	475	476
USSR.....	906	927	988	996	1,020
Asia.....	7,025	7,840	8,564	9,176	9,536
Africa.....	1,543	1,667	1,746	1,843	1,871
Oceania.....	20	20	22	23	23
Total.....	10,697	11,759	12,728	13,404	13,777
Grand total...	86,398	92,776	94,274	98,763	99,535

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1989; Vol. 68, Rome.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY SPECIES GROUPS, 1985-1989, (DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Species group	1985 (1)	1986 (1)	1987 (1)	1988 (1)	1989
	-----Thousand metric tons-----				
	Live weight				
Cods, hakes, haddocks.....	12,466	13,556	13,785	13,641	12,831
Flatfish.....	1,351	1,316	1,289	1,338	1,192
Herrings, sardines, anchovies...	21,101	23,955	22,314	24,113	24,574
Jacks, mullets, sauries.....	8,315	7,474	8,299	9,137	9,243
Mackerel, snoeks, cutlassfishes.	3,829	4,010	3,644	3,846	3,826
Redfish, basses, congers.....	5,207	5,956	5,694	5,646	5,907
Salmons, trouts, smelts.....	1,172	1,093	1,091	1,162	1,437
Sharks, rays, chimaeras.....	620	627	662	680	688
Tunas, bonitos, billfishes.....	3,196	3,465	3,586	3,993	4,010
Other fishes.....	18,725	20,330	21,604	22,650	23,107
Crabs.....	888	899	972	1,036	1,146
Lobsters.....	214	221	228	222	207
Shrimp.....	2,134	2,233	2,364	2,518	2,443
Other crustaceans.....	436	726	690	671	705
Oysters.....	1,088	1,077	1,112	1,094	1,020
Scallops.....	604	531	741	869	840
Squids, cuttlefishes, octopus...	1,787	1,752	2,312	2,255	2,537
Other mollusks.....	2,965	3,206	3,522	3,590	3,482
Miscellaneous.....	300	349	365	302	340
Total.....	86,398	92,776	94,274	98,763	99,535

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1989, Vol. 68, Rome.

DISPOSITION OF WORLD COMMERCIAL CATCH, 1985-1989
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Item	1985 (1)	1986 (1)	1987 (1)	1988 (1)	1989
	-----Percent of total-----				
Marketed fresh.....	18.6	19.5	21.0	22.2	21.3
Frozen.....	23.9	23.6	23.6	23.1	23.4
Canned.....	13.3	12.5	12.4	12.0	12.1
Cured.....	14.8	14.1	14.5	14.0	14.1
Reduced to meal and oil (2)....	27.9	29.0	27.2	27.4	27.7
Miscellaneous purposes.....	1.5	1.3	1.3	1.3	1.4
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, 1989, Vol. 69, Rome.

WORLD FISHERIES

WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS,
BY LEADING COUNTRIES, 1986-89

Country	1986 (1)	1987 (1)	1988 (1)	1989
-----Thousand U.S. dollars-----				
IMPORTS				
Japan.....	6,593,515	8,308,077	10,657,717	10,127,471
United States.....	4,748,692	5,662,329	5,389,345	5,756,927
France.....	1,510,431	2,021,868	2,243,783	2,199,878
Italy.....	1,264,513	1,738,226	1,898,823	1,984,470
Spain.....	721,977	1,321,771	1,725,879	1,816,160
United Kingdom.....	1,216,053	1,386,818	1,577,597	1,612,053
Fed. Rep. of Germany..	1,112,060	1,268,965	1,428,863	1,479,366
Hong Kong.....	624,726	794,280	1,030,588	988,063
Denmark.....	596,060	842,476	852,367	864,219
Thailand.....	283,658	267,149	537,918	726,846
Netherlands.....	387,935	509,430	577,895	671,949
Canada.....	433,087	511,901	593,327	659,238
Belgium.....	425,923	529,941	582,893	603,053
Taiwan.....	197,827	308,247	403,227	452,004
Sweden.....	333,934	404,897	421,347	408,338
Portugal.....	256,373	424,716	457,133	390,589
Singapore.....	257,666	312,955	370,311	366,126
Australia.....	236,821	284,997	304,852	353,855
Switzerland.....	264,921	332,826	362,960	345,236
Other Countries.....	2,759,301	3,305,626	3,908,205	4,090,162
Total.....	24,225,473	30,537,495	35,325,030	35,896,003
EXPORTS				
United States.....	1,480,990	1,824,788	2,441,176	2,532,444
Canada.....	1,751,809	2,092,170	2,206,439	2,051,251
Thailand.....	1,011,896	1,261,066	1,630,891	1,959,427
Denmark.....	1,381,460	1,750,652	1,855,542	1,745,056
Taiwan.....	1,374,723	1,742,028	1,751,539	1,591,648
Norway.....	1,171,170	1,474,930	1,608,071	1,563,496
Republic of Korea....	1,171,111	1,540,072	1,784,068	1,538,408
China.....	645,813	912,476	1,398,576	1,392,904
Netherlands.....	766,379	953,177	948,156	1,061,331
Iceland.....	857,994	1,071,067	1,060,389	1,026,990
Japan.....	897,850	889,827	1,037,341	919,180
Chile.....	516,023	635,583	804,746	895,780
United Kingdom.....	511,130	717,418	718,228	775,962
Spain.....	398,703	474,752	650,542	775,763
France.....	501,233	654,464	730,885	772,724
Indonesia.....	340,619	441,079	664,483	767,422
USSR.....	587,080	637,287	799,633	719,677
Hong Kong.....	421,605	505,815	734,798	687,686
Fed. Rep. of Germany..	357,740	437,934	494,151	553,201
Other Countries.....	8,404,434	10,031,031	11,492,017	11,986,263
Total.....	23,068,772	28,222,828	32,370,495	32,784,169

(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 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; 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, 1989, Vol. 69, Rome.

PROCESSED FISHERY PRODUCTS

VALUE OF PROCESSED FISHERY PRODUCTS, 1989 AND 1990
(Processed from domestic catch and imported products)

Item	1989		1990 (1)	
	Thousand dollars	Percent of total	Thousand dollars	Percent of total
Edible:				
Fresh and frozen.....	4,516,984	65.6	5,429,898	73.4
Canned.....	1,753,536	25.5	1,414,846	19.1
Cured.....	174,282	2.5	203,039	2.7
Total edible.....	6,444,802	93.5	7,047,783	95.2
Industrial:				
Bait and animal food (canned).....	238,343	3.5	146,947	2.0
Meal, oil, and solubles.....	156,321	2.3	163,796	2.2
Other.....	49,756	0.7	42,759	0.6
Total industrial.	444,420	6.5	353,502	4.8
Grand total.....	6,889,222	100.0	7,401,285	100.0

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

Note:--Value is based on selling price at the plant. Processed Fishery Products, Annual Summary, 1990, Current Fishery Statistics No. 9003 will provide additional information.

FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1981-90

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1981-90

YEAR	Fish sticks		Fish portions		Breaded shrimp	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1981.....	88,972	96,754	328,407	388,722	85,177	254,283
1982.....	91,178	105,516	304,104	385,894	94,391	282,026
1983.....	86,928	115,556	335,270	410,858	100,106	337,604
1984.....	92,441	109,677	333,212	413,789	94,522	386,222
1985.....	96,239	111,265	330,362	367,734	95,734	369,415
1986.....	87,289	94,290	341,628	393,956	107,834	354,808
1987.....	98,927	*142,946	323,746	*445,631	108,937	358,442
1988.....	80,148	113,868	301,229	438,873	99,471	371,798
1989.....	89,112	116,440	279,777	400,289	*120,950	*404,592
1990.....	65,209	74,866	293,608	414,428	114,198	370,654

(1) *Record. Records--1973 fish sticks production: 127,156,000 lb; 1973 fish portions production: 396,089,000 lb; 1980 other industrial products: \$63,525,000 lb; and 1980 Grand total: \$269,606,000 lb.

Note:-- Processed Fishery Products, Annual Summary, 1990, Current Fishery Statistics No. 9003 will provide additional information.

PROCESSED FISHERY PRODUCTS

FISH FILLETS AND STEAKS

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1989 AND 1990

Species	1989 (1)		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fillets:				
Anglerfish.....	5,499	14,596	3,459	11,228
Bluefish.....	349	492	301	547
Cod.....	73,091	136,142	65,687	134,086
Cusk.....	852	1,737	583	1,160
Dolphin.....	1,201	3,313	1,806	5,611
Flounders.....	43,778	141,691	52,567	148,732
Groundfish mixed.....	6,731	18,089	3,951	10,965
Groupers.....	2,184	10,399	2,074	10,032
Haddock.....	7,210	25,736	7,025	24,466
Hake, Atlantic.....	1,453	2,990	1,666	3,292
Halibut.....	1,849	5,648	1,942	7,483
Lingcod.....	1,316	2,278	1,525	2,698
Ocean perch:				
Atlantic.....	1,955	3,427	396	1,160
Pacific.....	3,016	5,893	3,352	6,248
Ocean pout.....	1,238	1,663	1,024	1,611
Pollock:				
Atlantic.....	11,000	18,321	11,738	20,939
Alaska.....	106,190	97,976	164,411	174,317
Rockfishes.....	25,374	40,119	36,386	58,128
Sablefish.....	2,262	3,915	3,655	5,478
Salmon.....	11,324	33,590	6,015	21,778
Sea trout.....	485	908	381	764
Shark.....	5,701	7,501	9,655	15,757
Snapper:				
Red.....	546	2,121	299	1,557
Unclassified.....	587	3,625	1,097	6,578
Spanish mackerel.....	595	886	531	455
Swordfish.....	824	5,147	2,137	12,482
Tuna.....	1,976	8,079	2,062	12,199
Whitefish.....	346	898	326	931
Wolfish.....	162	315	145	285
Yellow perch.....	611	2,899	406	2,231
Yellow pike.....	168	565	130	446
Unclassified.....	24,927	55,855	23,287	43,426
Total.....	344,800	656,814	410,019	747,070
Steaks:				
Halibut.....	12,645	41,390	10,738	40,147
King mackerel.....	96	258	79	261
Salmon.....	5,070	16,278	3,519	10,119
Shark.....	715	1,774	849	2,612
Swordfish.....	3,097	12,606	2,231	10,512
Unclassified.....	4,659	13,293	6,781	9,394
Total.....	26,282	85,599	24,197	73,045
Grand total.....	371,082	742,413	434,216	820,115

(1) Revised.

Note:--The following amounts of frozen fish blocks were produced from the fillets reported above: 30,898,182 lb valued at \$22,496,560 in 1989, and 109,889,000 lb valued at \$116,931,171 in 1990. Final data will be published in Processed Fishery Products, Annual Summary, 1990, Current Fishery Statistics No. 9003.

PROCESSED FISHERY PRODUCTS

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CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1989 AND 1990

Species	Pounds per case	1989			1990		
		Standard cases	Thousand pounds	Thousand dollars	Standard cases	Thousand pounds	Thousand dollars
For human consumption:							
Fish:							
Herring.....	23.4	206,185	4,825	7,224	249,680	5,843	9,725
Mackerel.....	45	391,600	17,622	6,983	520,569	23,426	10,500
Salmon:							
Natural.....	48	4,105,078	197,044	513,622	4,091,311	196,383	365,979
Specialties.....	48	106,554	5,115	9,957	2,881	138	733
Sardines, Maine....	23.4	564,989	13,221	16,799	565,823	13,240	17,301
Tuna:							
Solid.....	19.5	6,619,358	129,077	317,665	6,234,684	121,576	299,159
Chunk.....	19.5	28,511,993	555,984	739,011	23,484,108	457,940	601,613
Flakes.....	18	67,024	1,206	1,086	60,156	1,083	1,242
Total tuna.....	--	35,198,375	686,267	1,057,762	29,778,948	580,599	902,014
Specialties.....	48	186	9	26	85	4	22
Other.....	48	537,452	25,798	26,139	391,054	18,771	19,197
Total fish.....	--	41,110,419	949,901	1,638,512	35,600,351	838,404	1,325,471
Shellfish:							
Clam and clam products: (1)							
Whole and minced.	15	2,364,261	35,464	44,357	2,323,020	34,845	41,385
Chowder and juice	30	2,937,637	88,129	37,781	2,174,343	65,230	27,772
Specialties.....	48	233,883	11,226	9,229	200,488	9,623	7,319
Crabs, natural.....	19.5	25,839	504	3,039	35,645	695	3,810
Lobster meat and specialties.....	48	20,425	980	931	17,141	823	887
Oyster, specialties	48	75,444	3,621	1,254	12,858	617	534
Shrimp:							
Natural (2).....	6.75	388,610	2,623	8,753	105,245	710	2,878
Specialties.....	48	10,357	497	622	63	3	12
Other.....	48	350,889	16,843	9,058	125,253	6,012	4,778
Total shellfish.	--	6,407,345	159,887	115,024	4,994,056	118,558	89,375
Total for human consumption....	--	47,517,764	1,109,788	1,753,536	40,594,407	956,962	1,414,846
For bait and animal food:							
Animal food.....	48	7,195,393	345,379	237,829	4,609,042	221,234	146,444
Salmon eggs.....	48	1,774	85	514	1,793	86	503
Total for bait & animal food..	48	7,197,167	345,464	238,343	4,610,835	221,320	146,947
Grand total.....	--	54,714,931	1,455,252	1,991,879	45,205,242	1,178,282	1,561,793

(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, 1990, Current Fishery Statistics No. 9003.

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED TUNA, 1989-90

Item	Pounds per case	1989		1990	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Albacore:					
Solid.....	19.5	6,063	301,348	5,751	285,186
Chunk.....	19.5	977	43,943	1,012	41,731
Flakes and grated....	18	(1)	(1)	(1)	(1)
Total.....	--	7,040	345,291	6,763	326,917
Lightmeat:					
Solid.....	19.5	556	16,317	484	13,974
Chunk.....	19.5	27,535	695,068	22,472	559,881
Flakes and grated....	18	67	1,086	60	1,242
Total.....	--	28,158	712,471	23,016	575,097
Grand total.....	--	35,198	1,057,762	29,779	902,014

(1) Included with lightmeat.

PRODUCTION OF CANNED SHRIMP, BY AREA, 1989-90

Area	Pounds per case	1989 (1)		1990	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Gulf States.....	6.75	386	8,710	95	2,433
Pacific States.....	6.75	3	43	10	445
Total.....	6.75	389	8,753	105	2,878

(1) Revised.

PRODUCTION OF CANNED SALMON, 1989-90

Item	Pounds per case	1989 (1)		1990	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Chinook.....	48	5	654	3	471
Chum.....	48	169	18,290	127	11,755
Pink.....	48	3,188	361,675	2,758	201,762
Coho.....	48	36	5,242	38	3,938
Sockeye.....	48	707	127,761	1,165	148,053
Total.....	48	4,105	513,622	4,091	365,979

(1) Revised.

PROCESSED FISHERY PRODUCTS

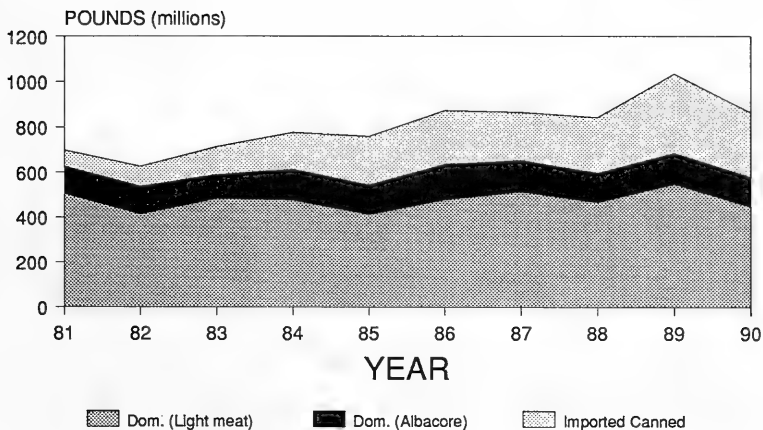
CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, 1981-90

Year	For human consumption		For animal food and bait		Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
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	1,953,971
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.....	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
1990.....	956,962	1,414,846	221,320	146,947	1,178,282	1,561,793

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

U.S. SUPPLY OF CANNED TUNA (CANNED WEIGHT) 1981 - 1990



PROCESSED FISHERY PRODUCTS

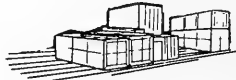
INDUSTRIAL PRODUCTS

PRODUCTION OF MEAL, OIL, AND SOLUBLES, 1989 AND 1990

Product	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Dried scrap and meal:				
Fish:				
Menhaden (1).....	463,944	89,083	448,012	77,485
Tuna and mackerel....	82,270	10,392	66,290	8,772
Unclassified.....	46,790	14,055	40,846	33,028
Total.....	593,004	113,530	555,148	119,285
Shellfish.....	25,378	1,519	22,350	1,450
Total, scrap and meal	618,382	115,049	577,498	120,735
Solubles, total.....	232,709	17,746	185,660	14,067
Body oil:				
Menhaden (1).....	218,542	23,172	273,979	28,188
Unclassified.....	6,936	354	7,970	806
Total, oil.....	225,478	23,526	281,949	28,994

(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, 1990, Current Fisheries Statistics 9003.



PRODUCTION OF INDUSTRIAL PRODUCTS, 1981-90

Year	Quantity			Value		
	Meal	Solubles	Marine animal oil	Meal, solubles, and oil	Other industrial products	Grand total
	-----Thousand pounds-----			-----Thousand dollars-----		
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	225,478	156,321	49,756	206,077
1990.....	577,498	185,660	281,949	163,796	42,759	206,555

*Record. Record--1959 fish solubles production: 330,718,000 lb; 1980 other industrial products: \$63,525,000 and 1980 grand total: \$269,606,000.

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

U.S. COLD STORAGE HOLDINGS

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FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1990

Item	January 1	March 31	June 30	September 30	December 31
-----Thousand pounds-----					
Blocks:					
Cod.....	14,242	4,885	7,228	9,834	10,018
Flounder.....	3,635	1,426	778	1,370	1,622
Greenland turbot.....	100	52	17	104	149
Haddock.....	2,390	1,452	1,272	1,910	2,400
Ocean perch.....	692	1,593	1,283	1,129	1,014
Pollock: Alaska.....	10,533	11,566	11,261	11,047	11,321
Saithe and other....	2,413	1,323	1,217	3,111	1,614
Whiting.....	2,162	2,492	1,560	1,311	2,298
Minced (grated) all species...	11,372	6,438	6,784	11,109	10,028
Unclassified.....	7,732	5,920	2,772	3,364	3,852
Total blocks.....	55,271	37,147	34,172	44,289	44,316
Fillets and steaks:					
Cod.....	35,244	24,709	20,342	10,718	9,309
Flounder.....	14,838	11,204	9,943	10,147	10,777
Greenland turbot.....	754	329	308	695	504
Haddock.....	8,103	4,763	2,842	2,434	1,261
Halibut.....	2,327	1,467	1,339	1,559	1,883
Ocean perch.....	7,617	6,670	6,953	4,464	5,032
Pollock.....	30,772	16,418	11,296	18,385	13,299
Whiting.....	3,270	2,439	2,421	3,501	4,527
Unclassified.....	13,451	9,742	12,100	13,180	15,426
Total fillets and steaks...	116,376	77,741	67,544	65,083	62,018
Fish sticks and portions (cooked uncooked, all species).	27,378	24,152	26,378	29,179	28,166
Round, dressed, etc.:					
Catfish.....	9,109	9,389	9,295	7,929	9,479
Halibut.....	9,960	1,589	20,248	15,471	7,240
Rainbow trout.....	1,902	1,796	1,391	1,078	785
Salmon.....	39,657	22,916	10,206	45,088	32,868
Whiting.....	630	608	809	261	258
Unclassified.....	33,360	28,081	27,434	28,330	30,509
Surimi and analog products....	24,998	31,806	35,452	31,343	24,216
Crabs:					
King.....	3,393	2,316	2,855	1,901	2,092
Snow.....	12,832	10,270	15,310	11,683	9,176
Unclassified.....	3,307	2,290	2,189	2,173	3,208
Lobsters (spiny and other).....	3,028	2,767	2,098	2,658	2,631
Scallops.....	3,404	2,064	3,630	3,994	3,161
Shrimp:					
Raw, headless.....	28,578	19,523	28,295	26,467	27,223
Breaded.....	6,359	6,753	6,826	6,685	6,005
Peeled.....	14,113	10,939	13,843	13,565	14,532
Unclassified.....	7,134	5,340	7,966	8,698	11,845
Total shrimp.....	56,184	42,555	56,930	55,415	59,605
Squid.....	16,628	10,483	8,275	11,395	14,134
Other shellfish.....	9,386	8,740	11,163	11,854	11,992
Bait and animal food.....	9,834	8,762	10,226	11,542	10,729
Total fish and shellfish...	420,009	314,989	337,330	369,271	342,449

Note:--Holdings of frozen fishery products include domestic and imported fish and shellfish.
Source:--Frozen Fishery Products, Annual Summary, 1990, Current Fishery Statistics No. 9001 will provide additional information.

U.S. Imports of Edible Fishery Products, 1990 (Total Imports \$5,233.2 million)



IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1981-90

Year	Edible		Nonedible	Total
	Thousand pounds	- - - - - Thousand dollars - - - - -		
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	3,430,369	8,871,997
1989.....	*3,243,017	5,497,849	*4,106,507	*9,604,356
1990.....	2,884,613	5,233,165	3,814,513	9,047,678

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



FISHERY PRODUCTS IMPORTS: VALUE, DUTIES COLLECTED, AND AD VALOREM EQUIVALENT, 1981-90

Year	Value		Duties collected		Average ad valorem equivalent	
	Fishery imports	All imports	Fishery imports	All imports	Fishery imports	All imports
	- - - - - Thousand dollars - - - - -				Percent	
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
1990.....	9,047,678	490,553,800	213,710	16,338,700	2.4	3.3

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

FOREIGN TRADE

IMPORTS

FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1989 AND 1990

Item	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Edible fishery products:				
Fresh and frozen:				
Whole or eviscerated:				
Cod, cusk, haddock, hake and pollock.....	85,880	45,091	73,504	39,006
Flatfish.....	33,779	46,386	27,970	40,981
Salmon.....	98,799	228,855	104,322	252,880
Tuna:				
Albacore.....	200,306	202,291	150,158	145,758
Other (1).....	449,431	199,449	303,551	193,542
Other.....	221,404	221,343	241,030	240,703
Fillets and steaks:				
Flatfish.....	66,403	138,856	60,311	130,548
Groundfish.....	265,001	437,044	200,980	351,913
Other.....	186,216	351,400	197,123	327,471
Blocks and slabs.....	283,278	325,689	264,468	373,292
Shrimp.....	491,649	1,684,788	491,613	1,639,181
Crabmeat.....	10,317	41,389	10,822	46,978
Lobster:				
American.....	48,912	246,420	44,672	168,052
Spiny.....	23,042	206,228	29,418	271,920
Scallops (meats).....	40,874	139,008	39,839	130,453
Other fish and shellfish.....	106,907	180,569	96,191	168,630
Canned:				
Anchovy.....	5,822	19,450	5,736	19,410
Herring.....	5,869	8,164	3,373	2,829
Mackerel.....	18,664	8,507	18,940	8,014
Salmon.....	2,943	9,794	1,378	4,241
Sardines:				
In oil.....	21,771	29,840	18,660	27,304
Not in oil.....	34,608	25,529	38,303	27,885
Tuna.....	348,212	375,911	284,593	293,873
Clams.....	12,686	11,145	13,858	11,117
Crabmeat.....	8,280	21,649	8,563	23,799
Lobsters.....	314	1,412	165	933
Oysters.....	20,405	36,893	13,920	26,969
Shrimp.....	11,315	20,399	9,735	19,510
Balls, cakes, and puddings.....	11,104	17,694	9,773	14,020
Other fish and shellfish.....	31,423	55,570	31,262	62,720
Cured:				
Dried.....	10,075	23,961	16,058	39,399
Pickled or salted.....	50,499	54,468	44,603	49,347
Smoked or kippered.....	5,234	18,760	9,974	29,835
Cavair and roe.....	2,103	14,413	2,504	15,007
Prepared meals.....	16,153	28,742	11,129	18,893
Other fish and shellfish.....	13,339	20,742	6,114	16,752
Total edible fishery products.	3,243,017	5,497,849	2,884,613	5,233,165
Nonedible fishery products:				
Meal and scrap.....	171,112	31,715	239,426	38,643
Fish oils.....	25,449	9,936	36,702	10,209
Other.....	-	4,064,856	-	3,765,661
Total nonedible fishery products.....	-	4,106,507	-	3,814,513
Grand total.....	-	9,604,356	-	9,047,678

(1) Includes loins and discs.

Note:--Data include imports into the United States and Puerto Rico and 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.

FOREIGN TRADE

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IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1990

Continent and Country	Edible		Nonedible		Total
	<u>Thousand pounds</u>	----- <u>Thousand dollars</u> -----			
North America:					
Canada.....	690,632	1,174,521	275,721		1,450,242
Mexico.....	80,732	278,943	51,193		330,136
Panama.....	27,835	63,197	3,995		67,192
Dominican Republic....	939	2,808	59,154		61,962
Honduras.....	15,414	61,759	14		61,773
Other.....	60,459	147,848	15,601		163,449
Total.....	876,011	1,729,076	405,678		2,134,754
South America:					
Ecuador.....	149,043	340,604	914		341,518
Chile.....	75,928	119,331	18,072		137,403
Brazil.....	29,434	83,935	37,651		121,586
Peru.....	32,157	34,035	63,393		97,428
Argentina.....	62,719	59,035	21,598		80,633
Other.....	78,191	127,076	29,837		156,913
Total.....	427,472	764,016	171,465		935,481
Europe:					
European Economic Community:					
Italy.....	605	1,593	1,066,052		1,067,645
France.....	18,698	9,077	278,404		287,481
Fed. Rep of Germany	1,436	2,788	149,068		151,856
United Kingdom.....	6,426	23,656	80,643		104,299
Denmark.....	32,564	68,374	24,660		93,034
Other.....	53,807	78,450	134,627		213,077
Total.....	113,536	183,938	1,733,454		1,917,392
Other:					
Iceland.....	72,488	143,687	490		144,177
Norway.....	40,802	113,005	8,961		121,966
Switzerland.....	742	2,167	57,141		59,308
Turkey.....	110	189	23,021		23,210
Poland.....	27,790	17,490	513		18,003
Other.....	11,396	26,537	38,433		64,970
Total.....	153,328	303,075	128,559		431,634
Asia:					
Thailand.....	375,916	592,271	279,244		871,515
China.....	155,028	399,394	34,499		433,893
Hong Kong.....	12,629	18,458	385,737		404,195
Japan.....	85,161	150,884	202,894		353,778
Republic of Korea.....	82,692	124,032	86,633		210,665
Other.....	448,446	669,067	339,587		1,008,654
Total.....	1,159,872	1,954,106	1,328,594		3,282,700
Australia and Oceania:					
Australia.....	25,677	130,991	16,094		147,085
New Zealand.....	59,561	126,445	6,810		133,255
French Polynesia.....	423	352	8,671		9,023
Fiji.....	1,244	2,487	220		2,707
Vanuatu.....	1,390	651	5		656
Other.....	508	1,450	625		2,075
Total.....	88,803	262,376	32,425		294,801
Africa:					
Ghana.....	52,254	17,314	3		17,317
Morocco.....	2,858	6,850	3,307		10,157
Botswana.....	-	-	7,239		7,239
Nigeria.....	3,599	5,789	564		6,353
Mauritius.....	3,517	2,663	62		2,725
Other.....	3,363	3,962	3,163		7,125
Total.....	65,591	36,578	14,338		50,916
Grand total.....	2,884,613	5,233,165	3,814,513		9,047,678

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, 1989 AND 1990

Species and type	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Regular blocks and slabs:				
Cod.....	135,615	195,071	125,179	238,274
Flatfish.....	7,471	10,324	7,538	11,257
Haddock.....	12,741	21,603	13,832	31,705
Ocean Perch.....	1,005	1,219	1,532	1,933
Pollock.....	45,760	31,512	48,201	33,313
Whiting.....	24,249	15,548	28,278	19,648
Other.....	12,601	21,240	8,543	15,105
Total.....	239,442	296,517	233,103	351,235
Minc'd blocks and slabs.....	43,836	29,172	31,365	22,057
Grand total.....	283,278	325,689	264,468	373,292

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

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS,
BY COUNTRY OF ORIGIN, 1989 AND 1990

Country	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada.....	121,598	154,106	115,864	187,054
Denmark.....	34,389	51,243	30,142	61,942
Iceland.....	21,868	27,935	16,119	25,770
Republic of Korea.....	30,684	25,352	23,540	21,517
Poland.....	14,230	8,774	23,084	12,804
Argentina.....	15,805	9,942	17,701	12,713
Norway.....	5,896	8,013	4,994	12,020
Japan.....	11,821	13,449	4,496	9,417
Uruguay.....	8,279	5,538	7,928	5,749
Other.....	18,708	21,337	20,600	24,306
Total.....	283,278	325,689	264,468	373,292

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

GROUND FISH FILLET AND STEAK IMPORTS, BY SPECIES, 1989 AND 1990 (1)

Species	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Cod.....	168,095	290,084	114,042	223,227
Haddock (2).....	52,524	88,363	39,098	69,076
Ocean Perch.....	44,382	58,597	47,840	59,610
Total.....	265,001	437,044	200,980	351,913

(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, 1990, Current Fishery Statistics No. 9002 will provide additional information.

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

FOREIGN TRADE

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IMPORTS

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1981-90

Year	Quota (1)	Imports		
		Under quota (2)	Over quota (3)	Total
-----Thousand pounds-----				
1981.....	104,355	76,683	-	76,683
1982.....	109,742	92,759	-	92,759
1983.....	91,904	91,904	28,304	120,208
1984.....	95,587	95,587	68,328	163,915
1985.....	97,496	97,496	116,854	214,350
1986.....	81,092	81,092	153,057	234,149
1987.....	91,539	91,539	123,364	214,903
1988.....	85,185	85,185	193,784	278,969
1989.....	76,734	76,734	234,323	311,057
1990.....	87,158	87,158	171,472	258,630

(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 1990, 6 percent.

(3) Dutiable in 1972 to 1990, 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, 1989 AND 1990

Country	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Thailand.....	248,281	260,996	205,049	213,562
Taiwan.....	27,874	44,857	17,410	26,120
Philippines.....	34,008	31,129	27,045	22,018
Indonesia.....	22,639	19,667	21,509	18,056
Malaysia.....	4,259	5,131	2,938	3,613
Ecuador.....	2,895	2,912	3,395	2,989
Japan.....	2,460	5,172	1,408	2,587
Singapore.....	627	768	2,952	1,394
Venezuela.....	2,285	1,943	1,022	920
Other.....	2,884	3,336	1,865	2,614
Total.....	348,212	375,911	284,593	293,873

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

FOREIGN TRADE

IMPORTS

SHRIMP IMPORTS, BY COUNTRY OF ORIGIN, 1989 AND 1990

Country	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
North America:				
Mexico.....	60,387	285,138	37,029	177,118
Panama.....	17,205	68,470	11,723	41,108
Honduras.....	7,565	25,420	9,205	28,593
Guatemala.....	6,234	20,268	5,589	17,531
El Salvador.....	6,163	17,818	5,240	11,992
Canada.....	4,020	9,140	4,876	10,548
Costa Rica.....	3,036	10,930	1,233	4,239
Nicaragua.....	-	-	789	2,327
Trinidad and Tobago.....	383	945	482	1,177
Greenland.....	-	-	273	1,040
Other.....	287	1,073	195	819
Total.....	105,280	439,202	76,634	296,492
South America:				
Ecuador.....	81,139	308,589	84,386	291,113
Colombia.....	6,013	26,060	8,104	31,199
Venezuela.....	12,304	44,165	7,692	24,995
Brazil.....	16,772	41,433	8,729	21,374
Peru.....	3,979	14,910	4,748	16,705
Guyana.....	4,898	13,360	4,644	12,152
Chile.....	856	3,097	993	3,050
French Guiana.....	1,469	5,249	671	2,365
Suriname.....	183	727	461	1,199
Argentina.....	2,038	8,553	69	285
Other.....	84	325	-	-
Total.....	129,735	466,468	120,497	404,437
Europe:				
European Economic Community:				
United Kingdom.....	962	3,040	437	1,426
Denmark.....	27	42	159	616
Federal Republic of Germany.....	61	332	38	161
Netherlands.....	28	39	41	154
Spain.....	172	751	10	108
Other.....	238	603	64	124
Total.....	1,488	4,807	749	2,589
Other:				
Norway.....	155	562	2,233	6,919
Iceland.....	162	1,036	378	2,298
Switzerland.....	221	678	584	1,703
Faroe Islands.....	143	595	174	530
USSR.....	-	-	983	379
Other.....	89	323	64	184
Total.....	770	3,194	4,416	12,013
Asia:				
China.....	102,988	276,713	126,637	355,110
Thailand.....	48,587	187,134	55,896	249,612
Indonesia.....	13,493	51,933	18,952	75,216
India.....	28,680	51,649	31,332	56,572
Bangladesh.....	12,905	46,003	14,733	56,187
Philippines.....	14,238	56,796	10,386	42,491
Singapore.....	7,899	29,259	6,811	30,357
Pakistan.....	9,806	17,066	12,206	21,075
Malaysia.....	7,976	19,185	7,522	18,216
Taiwan.....	7,427	23,011	3,513	10,711
Other.....	8,026	22,059	7,380	21,076
Total.....	262,025	780,808	295,368	936,623
Australia and Oceania.....	748	3,873	51	438
Africa.....	2,918	6,835	3,633	6,099
Grand total.....	502,964	1,705,187	501,348	1,658,691

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

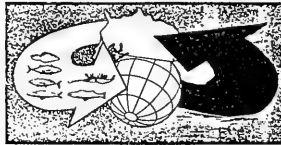
Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1989 AND 1990

Type of product	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Shell-on (heads off).....	372,455	1,363,564	327,122	1,154,040
Peeled:				
Canned.....	11,315	20,399	9,735	19,510
Not breaded:				
Raw.....	109,417	277,812	148,605	400,882
Other.....	9,232	42,471	15,564	83,661
Breaded.....	545	941	322	598
Total.....	502,964	1,705,187	501,348	1,658,691

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

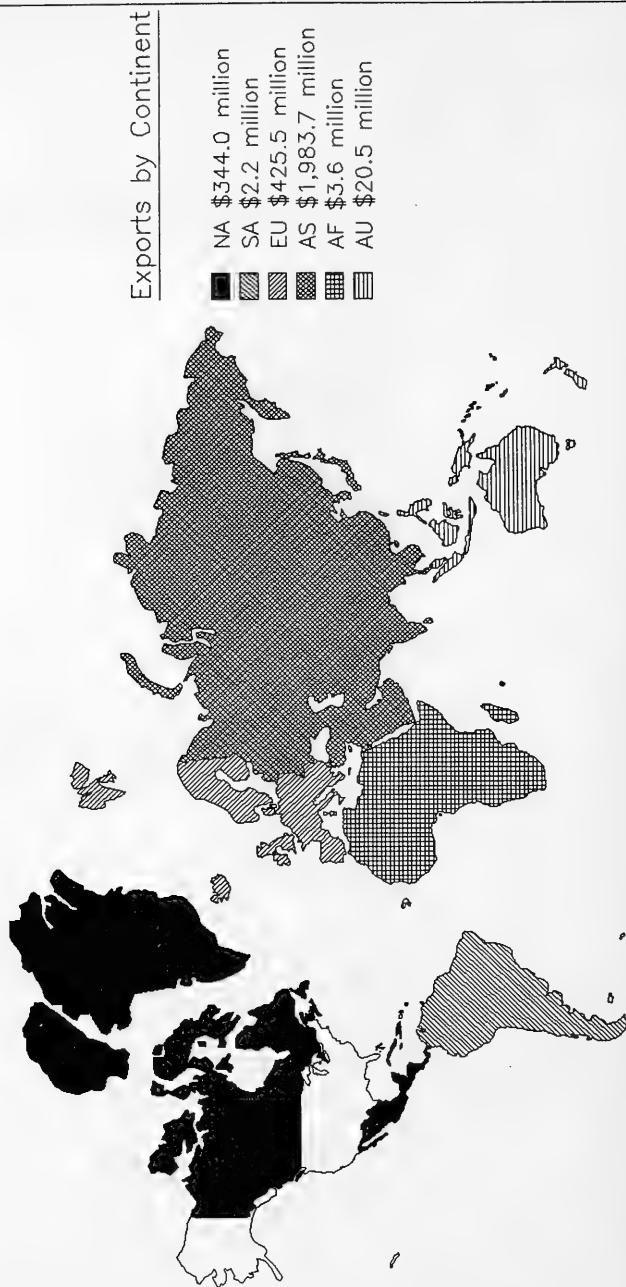


FISH MEAL AND SCRAP IMPORTS, BY COUNTRY OF ORIGIN, 1989 AND 1990

Country	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Peru.....	63,594	10,306	141,705	18,805
Canada.....	34,129	10,333	41,826	11,522
Chile.....	60,730	9,096	31,876	5,158
Panama.....	10,761	1,380	21,601	2,126
Norway.....	271	104	1,142	678
Mexico.....	670	135	937	194
Argentina.....	461	90	243	65
France.....	31	26	42	40
Netherlands.....	42	37	42	40
Other.....	423	208	12	15
Total.....	171,112	31,715	239,426	38,643

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

U.S. Exports of Edible Fishery Products, 1990 (Total Exports \$2,779.5 million)



EXPORTS

DOMESTIC FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1989 AND 1990

Item	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Edible fishery products:				
Fresh and frozen:				
Whole or eviscerated:				
Cod, haddock, hake, and pollock.....	58,459	56,203	188,802	143,262
Flatfish.....	54,575	76,524	76,191	82,807
Herring.....	81,028	42,967	94,645	59,190
Sablefish.....	50,174	83,004	43,349	72,499
Salmon.....	328,557	728,257	307,711	666,583
Tuna.....	17,478	38,744	19,773	45,085
Other.....	159,372	99,744	319,448	204,079
Fillets, and steaks:				
Cod.....	4,386	5,605	6,384	8,470
Salmon.....	8,818	19,006	2,599	5,801
Other.....	43,677	53,517	36,990	52,049
Blocks and slabs.....	35,296	36,323	272,019	214,679
Fish sticks and like products...	51,552	49,643	80,660	63,820
Clams.....	1,653	3,508	1,490	2,117
Crabs.....	81,668	246,292	107,543	351,790
Crabmeat.....	1,767	5,362	4,065	10,294
Lobsters.....	14,811	59,435	21,041	82,622
Scallops (meats).....	1,914	6,482	6,312	19,518
Sea urchins.....	12,290	68,264	13,810	65,622
Shrimp.....	20,802	67,537	29,176	112,212
Squid.....	46,327	40,926	44,756	28,534
Other fish and shellfish.....	10,518	27,334	14,930	29,439
Canned:				
Salmon.....	40,415	89,720	49,400	104,277
Sardines.....	8,951	7,823	8,977	9,155
Tuna.....	6,168	9,211	8,646	13,211
Abalone.....	2,163	31,291	1,739	31,022
Crabmeat.....	910	1,944	373	1,153
Shrimp.....	2,043	5,506	2,463	6,523
Squid.....	16,704	8,146	9,718	5,001
Other fish and shellfish.....	59,103	57,562	17,006	15,286
Cured:				
Dried.....	5,648	8,837	3,801	11,693
Pickled or salted.....	19,323	20,229	14,612	18,728
Smoked or kippered.....	1,709	2,537	597	2,410
Caviar and roe:				
Herring.....	27,220	30,556	12,628	21,779
Salmon.....	18,408	72,729	16,969	80,189
Other.....	27,197	91,686	40,796	121,868
Prepared meals.....	5,108	4,439	818	1,309
Other fish and shellfish.....	47,820	26,101	40,219	15,374
Total edible fishery products.	1,374,012	2,282,994	1,920,456	2,779,450
Nonedible fishery products:				
Meal and scrap.....	103,790	23,791	128,522	38,613
Fish oils.....	194,795	20,223	222,341	23,887
Other.....	-	2,379,834	-	2,797,242
Total nonedible fishery products.....	-	2,423,848	-	2,859,742
Grand total.....	-	4,706,842	-	5,639,192

Note:--Does not include U.S.-flag vessel catches transferred onto foreign vessels in the U.S. EEZ joint venture operations (see page 19).

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

FOREIGN TRADE

EXPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 1990

Continent and Country	Edible		Nonedible	Total
	Thousand pounds	-----Thousand dollars-----		
North America:				
Canada.....	165,397	313,636	599,110	912,746
Mexico.....	9,278	13,848	138,507	152,355
Dominican Republic....	1,135	1,400	43,880	45,280
Panama.....	967	1,312	26,252	27,564
Neth. Antilles.....	793	1,621	20,797	22,418
Other.....	8,185	12,163	90,399	102,562
Total.....	185,755	343,980	918,945	1,262,925
South America:				
Brazil.....	47	112	23,210	23,322
Venezuela.....	2,612	1,508	21,033	22,541
Chile.....	67	135	13,942	14,077
Argentina.....	24	23	13,228	13,251
Bolivia.....	-	-	13,219	13,219
Other.....	163	399	37,848	38,247
Total.....	2,913	2,177	122,480	124,657
Europe:				
European Economic Community:				
United Kingdom.....	53,027	98,832	128,933	227,765
France.....	49,215	84,590	111,779	196,369
Fed. Rep of Germany	65,383	64,607	87,249	151,856
Netherlands.....	13,196	20,191	127,897	148,088
Italy.....	12,453	24,521	54,086	78,607
Other.....	50,082	57,553	128,975	186,528
Total.....	243,356	350,294	638,919	989,213
Other:				
Switzerland.....	1,059	2,750	115,710	118,460
Norway.....	63,247	38,474	11,292	49,766
Sweden.....	13,703	25,145	16,586	41,731
USSR.....	82,998	2,672	5,462	8,134
Austria.....	2	9	5,017	5,026
Other.....	12,309	6,179	12,466	18,645
Total.....	173,318	75,229	166,533	241,762
Asia:				
Japan.....	1,097,480	1,785,939	395,019	2,180,958
Republic of Korea....	138,788	106,497	92,516	199,013
Hong Kong.....	4,973	24,523	130,332	154,855
Taiwan.....	25,425	39,908	71,205	111,113
Singapore.....	1,577	6,605	44,146	50,751
Other.....	19,674	20,194	194,850	215,044
Total.....	1,287,917	1,983,666	928,068	2,911,734
Australia and Oceania:				
Australia.....	8,771	18,251	47,624	65,875
New Zealand.....	124	307	7,848	8,155
Fiji.....	6,083	1,127	676	1,803
French Polynesia.....	243	419	716	1,135
Fed Sts. of Micronesia	228	121	600	721
Other.....	230	268	793	1,061
Total.....	15,679	20,493	58,257	78,750
Africa:				
Rep. of South Africa..	1,157	959	11,833	12,792
Egypt.....	10,171	2,292	5,014	7,306
Nigeria.....	-	-	3,727	3,727
Mauritius.....	-	-	1,305	1,305
Morocco.....	41	50	1,054	1,104
Other.....	149	310	3,607	3,917
Total.....	11,518	3,611	26,540	30,151
Grand total.....	1,920,456	2,779,450	2,859,742	5,639,192

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

EXPORTS

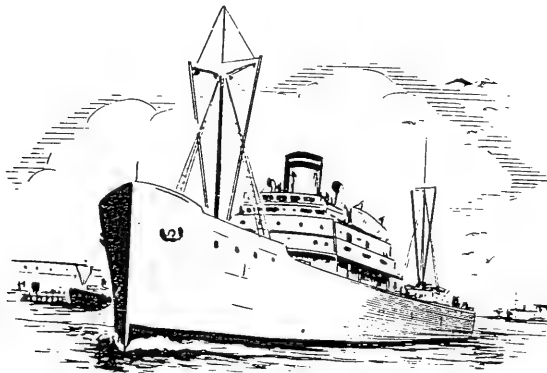
DOMESTIC FISHERY PRODUCTS EXPORTS, 1981-90

Year	Edible		Nonedible	Total
	<u>Thousand pounds</u>	<u>Thousand dollars</u>		
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	1,577,607	82,764	1,660,371
1988.....	1,060,804	2,155,628	118,967	2,274,595
1989.....	1,374,012	2,282,994	2,423,848	4,706,842
1990.....	*1,920,456	*2,779,450	*2,859,742	*5,639,192

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

NOTE:--The increase in the nonedible value beginning in 1989 is due to 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, 1989 AND 1990

Item	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fresh and frozen:				
Domestic.....	20,802	67,537	29,176	112,212
Foreign.....	5,889	22,948	12,075	48,473
Total.....	26,691	90,485	41,251	160,685
Canned:				
Domestic.....	2,043	5,506	2,463	6,523
Foreign.....	85	184	207	434
Total.....	2,128	5,690	2,670	6,957
Total:				
Domestic.....	22,845	73,043	31,639	118,735
Foreign.....	5,974	23,132	12,282	48,907
Total.....	28,819	96,175	43,921	167,642

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

DOMESTIC FRESH AND FROZEN SHRIMP EXPORTS,
BY COUNTRY OF DESTINATION, 1989 AND 1990

Country	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada.....	8,525	28,486	21,506	85,265
Japan.....	2,104	8,824	2,508	9,894
Mexico.....	4,987	12,072	1,722	4,247
United Kingdom.....	599	1,869	529	1,812
Bermuda.....	250	1,356	313	1,566
Hong Kong.....	639	1,476	328	1,178
Sweden.....	753	3,005	257	871
Netherlands.....	130	1,164	157	859
Honduras.....	-	-	216	789
Other.....	2,815	9,285	1,640	5,731
Total.....	20,802	67,537	29,176	112,212

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

DOMESTIC CANNED SHRIMP EXPORTS,
BY COUNTRY OF DESTINATION, 1989 AND 1990

Country	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada.....	657	1,642	1,562	4,789
Mexico.....	30	78	158	297
Thailand.....	246	776	287	263
Belgium.....	39	98	103	263
Federal Republic of Germany.....	104	285	53	196
Greece.....	343	797	108	143
Hong Kong.....	115	288	27	124
Taiwan.....	19	58	38	101
Switzerland.....	158	444	22	100
Other.....	332	1,040	105	247
Total.....	2,043	5,506	2,463	6,523

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

EXPORTS

DOMESTIC FRESH AND FROZEN SALMON EXPORTS, WHOLE OR EVISCERATED,
BY COUNTRY OF DESTINATION, 1989 AND 1990

Country	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan.....	260,950	627,478	244,393	561,703
France.....	10,290	17,660	18,655	32,319
Canada.....	37,513	48,991	17,236	29,021
United Kingdom.....	8,486	15,753	9,772	16,617
Sweden.....	2,475	3,555	4,170	5,119
Netherlands.....	1,657	2,691	2,356	3,792
Belgium.....	1,126	2,296	1,582	3,522
Denmark.....	1,297	2,053	2,215	2,983
Federal Republic of Germany.....	994	1,644	1,406	2,433
Other.....	3,769	6,136	5,926	9,074
Total.....	328,557	728,257	307,711	666,583

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

DOMESTIC FRESH AND FROZEN SALMON EXPORTS, FILLETS,
STEAKS OR PORTIONS, BY COUNTRY OF DESTINATION, 1989 AND 1990

Country	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan.....	6,024	13,444	986	2,641
France.....	1,088	1,885	624	1,155
Republic of Korea.....	43	50	267	659
Denmark.....	293	595	296	464
Federal Republic of Germany.....	15	39	148	300
Hong Kong.....	20	29	120	222
Switzerland.....	113	203	45	82
Sweden.....	49	124	31	70
Netherlands.....	-	-	27	69
Other.....	1,173	2,637	55	139
Total.....	8,818	19,006	2,599	5,801

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

DOMESTIC CANNED SALMON EXPORTS, BY COUNTRY OF DESTINATION, 1989 AND 1990

Country	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
United Kingdom.....	19,896	46,336	27,678	61,096
Australia.....	7,257	15,969	6,233	13,713
Canada.....	7,921	17,538	6,348	13,694
Netherlands.....	2,848	5,308	6,214	10,883
Belgium.....	913	1,606	1,322	2,115
Ireland.....	34	73	647	1,062
France.....	60	101	301	434
Italy.....	69	121	147	268
Japan.....	133	421	81	221
Other.....	1,284	2,247	429	791
Total.....	40,415	89,720	49,400	104,277

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

FOREIGN TRADE

EXPORTS

DOMESTIC FRESH AND FROZEN CRAB EXPORTS,
BY COUNTRY OF DESTINATION, 1989 AND 1990

Country	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan.....	76,105	230,685	102,374	335,575
Canada.....	3,371	9,547	2,923	11,119
Republic of Korea.....	1,495	3,653	1,426	2,508
Thailand.....	1	5	243	499
France.....	-	-	101	361
United Kingdom.....	75	307	116	346
Taiwan.....	226	270	45	293
Hong Kong.....	76	446	84	250
Federal Republic of Germany.....	106	622	42	173
Other.....	213	757	189	666
Total.....	81,668	246,292	107,543	351,790

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

DOMESTIC FRESH AND FROZEN CRABMEAT EXPORTS,
BY COUNTRY OF DESTINATION, 1989 AND 1990

Country	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan.....	922	3,486	2,346	6,288
Republic of Korea.....	96	120	941	2,118
Australia.....	36	42	97	413
Canada.....	277	673	121	290
Yugoslavia.....	-	-	89	244
China.....	-	-	88	167
Hong Kong.....	21	95	48	166
Netherland Antilles.....	25	58	42	95
Singapore.....	5	39	9	84
Other.....	385	849	284	429
Total.....	1,767	5,362	4,065	10,294

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

DOMESTIC FRESH AND FROZEN HERRING EXPORTS, WHOLE OR EVISCERATED,
BY COUNTRY OF DESTINATION, 1989 AND 1990

Country	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan.....	48,560	33,549	66,014	50,746
Republic of Korea.....	6,751	4,921	8,541	4,300
Canada.....	2,575	1,109	6,027	3,383
USSR.....	23,120	3,365	13,789	589
Thailand.....	-	-	222	141
Mexico.....	11	10	32	25
Bahamas.....	5	4	20	6
Other.....	6	9	-	-
Total.....	81,028	42,967	94,645	59,190

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

EXPORTS

DOMESTIC FISH AND MARINE ANIMAL OIL EXPORTS,
BY COUNTRY OF DESTINATION, 1989 AND 1990

Country	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Netherlands.....	164,740	15,838	176,622	16,196
Mexico.....	823	107	16,692	3,044
Republic of South Africa.....	13,229	1,204	19,481	1,899
Republic of Korea.....	132	90	1,316	1,234
Spain.....	8,079	909	5,548	585
Canada.....	202	100	626	224
France.....	-	-	573	180
Ecuador.....	(1)	3	1,100	147
Taiwan.....	221	199	101	66
Other.....	7,369	1,773	282	312
Total.....	194,795	20,223	222,341	23,887

(1) Less than 500 lb.

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

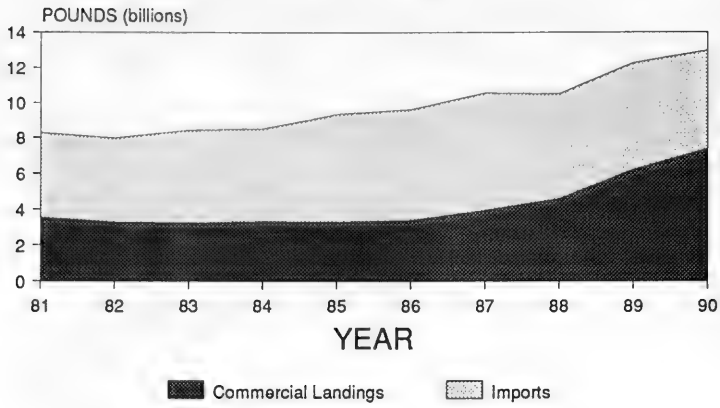


DOMESTIC FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1989 AND 1990

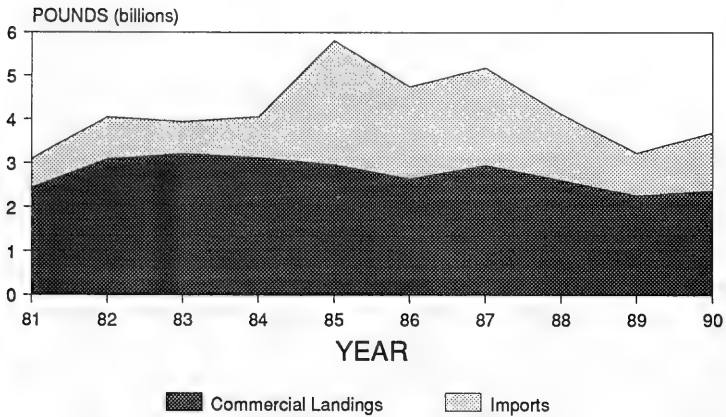
Country	1989		1990	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Taiwan.....	27,196	8,414	74,579	21,967
Japan.....	8,051	3,000	17,593	3,732
Canada.....	10,580	4,828	13,316	3,015
Thailand.....	1,246	1,281	1,116	2,416
Indonesia.....	265	765	3,805	1,653
Egypt.....	-	-	4,420	1,118
Mexico.....	855	723	3,840	822
Ecuador.....	657	677	115	564
Republic of Korea.....	652	391	1,556	524
Other.....	54,288	3,712	8,182	2,802
Total.....	103,790	23,791	128,522	38,613

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

U.S. SUPPLY OF EDIBLE FISHERY PRODUCTS (ROUND WEIGHT) 1981 - 1990



SUPPLY OF INDUSTRIAL FISHERY PRODUCTS (U.S., ROUND WEIGHT) 1981 - 1990



SUPPLY OF FISHERY PRODUCTS

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U.S. SUPPLY OF EDIBLE AND INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1981-90 (Round weight)

Year	Domestic commercial landings (1)		Imports (2)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
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
1990.....	*9,708	58.3	6,945	41.7	16,653

(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, 1981-90 (Round weight)

Year	Domestic commercial landings (1)		Imports (2)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
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
1990.....	*7,346	56.7	5,621	43.3	*12,967

(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, 1981-90 (Round weight)

Year	Domestic commercial landings (1)		Imports		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
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
1990.....	2,362	64.1	1,324	35.9	3,686

(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, 1989 AND 1990

Item	Domestic commercial landings		Imports (1)		Total	
	1989	1990	1989	1990	1989	1990
	-----Million pounds, round weight-----					
Edible fishery products:						
Finfish.....	4,897	6,053	4,838	4,373	9,735	10,426
Shellfish.....	1,307	1,293	1,226	1,248	2,533	2,541
Total.....	6,204	7,346	6,064	5,621	12,268	12,967
Industrial fishery products:						
Finfish.....	2,249	2,343	(2) 958	(2) 1,324	3,207	3,667
Shellfish.....	10	19	(3)	(3)	10	19
Total.....	2,259	2,362	958	1,324	3,217	3,686
Total:						
Finfish.....	7,146	8,396	5,796	5,697	12,942	14,093
Shellfish.....	1,317	1,312	1,226	1,248	2,543	2,560
Total.....	8,463	9,708	7,022	6,945	15,485	16,653

See footnotes below.

VALUE OF U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1989 AND 1990

Item	Domestic commercial landings		Imports (1)		Total	
	1989	1990	1989	1990	1989	1990
	-----Million dollars-----					
Edible fishery products:						
Finfish.....	1,610	1,805	2,859	2,672	4,469	4,477
Shellfish.....	1,501	1,611	2,598	2,529	4,099	4,140
Total.....	3,111	3,416	5,457	5,201	8,568	8,617
Industrial fishery products:						
Finfish.....	116	145	(2) 32	(2) 38	148	183
Shellfish.....	11	11	(3)	(3)	11	11
Total.....	127	156	32	38	159	194
Total:						
Finfish.....	1,726	1,950	2,891	2,710	4,617	4,660
Shellfish.....	1,512	1,622	2,598	2,529	4,110	4,151
Total.....	3,238	3,572	5,489	5,239	8,727	8,811

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

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

SUPPLY OF FISHERY PRODUCTS

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U.S. SUPPLY OF REGULAR AND MINCED BLOCKS, 1981-90 (Edible weight)

Year	U.S. production		Imports		Total supply
	Quantity	Percent of total supply	Quantity	Percent of total supply	Quantity
	<u>Thousand pounds</u>	<u>Percent</u>	<u>Thousand pounds</u>	<u>Percent</u>	<u>Thousand pounds</u>
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
1990.....	109,889	29.4	264,468	70.6	374,357

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1981-90 (Edible weight)

Year	U.S. production (1)		Imports		Total supply
	Quantity	Percent of total supply	Quantity	Percent of total supply	Quantity
	<u>Thousand pounds</u>	<u>Percent</u>	<u>Thousand pounds</u>	<u>Percent</u>	<u>Thousand pounds</u>
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.....	371,082	41.8	517,620	58.2	888,702
1990.....	434,216	48.6	458,414	51.4	892,630

(1) Includes fillets used to produce blocks.

U.S. SUPPLY OF GROUND FISH FILLETS AND STEAKS, 1981-90 (Edible weight)

Year	U.S. production (1)		Imports		Total supply
	Quantity	Percent of total supply	Quantity	Percent of total supply	Quantity
	<u>Thousand pounds</u>	<u>Percent</u>	<u>Thousand pounds</u>	<u>Percent</u>	<u>Thousand pounds</u>
1981.....	78,788	23.5	257,164	76.5	335,952
1982.....	72,885	19.8	295,193	80.2	368,078
1983.....	82,656	21.7	298,170	78.3	380,826
1984.....	102,142	24.9	307,852	75.1	409,994
1985.....	93,292	23.4	305,690	76.6	398,982
1986.....	133,552	31.7	287,099	68.3	420,651
1987.....	199,743	38.8	315,418	61.2	515,161
1988.....	206,786	45.0	253,187	55.0	459,973
1989.....	211,498	44.4	265,001	55.6	476,499
1990.....	258,809	56.3	200,980	43.7	459,789

(1) Includes fillets used to produce blocks. Species include: cod, cusk, haddock, hake, pollock, and ocean perch. Revised to reflect change in definition of groundfish (See Glossary Section).

SUPPLY OF FISHERY PRODUCTS

U.S. COMMERCIAL LANDINGS AND IMPORTS OF TUNA, 1981-90

(Thousand pounds)

Year	Domestic commercial landings			Fresh and frozen including cooked loins and discs (2)	Imports	
	Atlantic, Gulf Pacific Coast States, and Hawaii	Puerto Rico and American Samoa (1)	Total		Canned	
					In oil	Not in oil
	----- (Round weight) -----				---Product weight---	
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
1990.....	62,393	451,410	513,803	564,322	423	284,170

(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, 1981-90

(Canned weight)

Year	Domestic production				Imported Canned		Total supply Thousand pounds
	Albacore		Lightmeat		Thousand pounds	Percent	
	Thousand pounds	Percent	Thousand pounds	Percent			
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	477,300	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
1990.....	131,871	15.2	448,728	51.9	284,593	32.9	865,192

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

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF CANNED SARDINES, 1981-90 (Canned weight)

Year	U.S. pack	Imports			Total	Exports		Total supply
		In oil	Not in oil	Total		Domestic	Foreign	
-----Thousand pounds-----								
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	939	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
1990.....	13,240	18,660	38,303	56,963	70,203	8,977	71	61,155

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

U.S. SUPPLY OF CANNED SALMON, 1981-90 (Canned weight)

Year	U.S. pack	Imports	Total	Exports		Total supply
				Domestic	Foreign	
-----Thousand pounds-----						
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
1990.....	196,383	1,378	197,761	49,400	146	148,215

(1) Less than 500 lb. *Records--1936 U.S. pack: 430,328,000 lb; 1959 imports: 31,154,000 lb; 1980 domestic exports: 74,006,000 lb.

U.S. SUPPLY OF CLAM MEATS, 1981-90 (Meat weight)

Year	U.S. commercial landings					Imports (1)	Exports		Total supply
	Hard	Soft	Surf	Other	Total		Domestic	Foreign	
-----Thousand pounds-----									
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
1990...	9,833	5,756	71,772	51,837	139,198	15,830	2,837	124	152,067

(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, 1981-90
(Round weight)

Year	U.S. commercial landings	Exports (1)		Total supply
		Frozen	Canned	
-----Thousand pounds-----				
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)
1990.....	33,917	(2)	396	(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. landings 185,624,000 lb.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1981-90
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
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)
1990.....	*213,395	4,977	*218,372	(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, 1981-90
(Canned weight)

Year	U.S. pack	Percent of total	Imports	Percent of total	Total	Exports	Total supply
	<u>Thousand pounds</u>	<u>Percent</u>	<u>Thousand pounds</u>	<u>Percent</u>			
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
1990.....	695	7.5	8,563	92.5	9,258	373	8,885

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

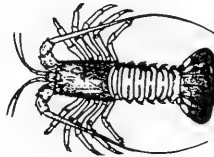
SUPPLY OF FISHERY PRODUCTS

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U.S. SUPPLY OF AMERICAN LOBSTERS, 1981-90 (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		
	<u>Thousand pounds</u>	<u>Percent</u>	----- <u>Thousand pounds</u> -----			<u>Thousand pounds</u>	
1981.....	37,494	48.2	26,857	13,459	40,316	77,810	
1982.....	39,445	48.6	26,205	15,480	41,685	81,130	
1983.....	44,206	47.7	43,439	4,977	48,416	92,622	
1984.....	43,967	43.9	54,359	1,783	56,142	100,109	
1985.....	46,152	42.9	57,358	4,029	61,387	107,539	
1986.....	46,053	40.8	65,276	1,633	66,909	112,962	
1987.....	45,558	39.6	66,585	2,956	69,541	115,099	
1988.....	48,643	40.1	69,790	2,756	*72,546	*121,189	
1989.....	52,926	42.4	(2) 40,357	(2) 696	41,053	93,979	
1990.....	*61,017	55.2	48,798	756	49,554	110,571	

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 4.50, meat; and 4.64, canned. (2) Revised. *Record.



U.S. SUPPLY OF SPINY LOBSTERS, 1981-90 (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		
	<u>Thousand pounds</u>	<u>Percent</u>	----- <u>Thousand pounds</u> -----			<u>Thousand pounds</u>	
1981.....	6,619	4.9	126,210	978	127,188	133,807	
1982.....	6,438	5.1	120,679	230	120,909	127,347	
1983.....	5,218	3.8	131,102	588	131,690	136,908	
1984.....	6,303	4.1	146,990	79	147,069	153,372	
1985.....	5,311	3.5	148,324	253	148,577	153,888	
1986.....	6,775	4.5	144,933	164	145,097	151,872	
1987.....	5,755	3.8	145,093	613	145,706	151,461	
1988.....	7,166	5.1	131,837	234	132,071	139,237	
1989.....	8,125	7.7	(2) 96,832	(2) 738	97,570	105,695	
1990.....	7,120	7.5	88,223	9	88,232	95,352	

(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. (2) Revised. *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, 1981-90
(Meat weight)

Year	U.S. commercial landings			Imports (2)	Total supply
	Eastern	Pacific (1)	Total		
	-----Thousand pounds-----				
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.....	21,398	7,852	29,250	37,662	66,912
1990.....	18,395	10,798	29,193	27,546	56,739

(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, 1981-90
(Meat weight)

Year	U.S. commercial landings				Imports	Total supply
	Bay	Calico	Sea	Total		
	-----Thousand pounds-----					
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
1990.....	539	1,135	39,917	41,591	39,839	81,430

*Record.

SUPPLY OF FISHERY PRODUCTS

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U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1981-90 (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-----								
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
1990....	213,899	579,427	793,326	41,927	12,259	4,974	522	733,644

(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; other, 2.40; and canned 2.02; foreign--fresh frozen, 1.00; canned, 2.52; and 2.40, other.

*Record. Records--1977 U.S. commercial 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, 1981-90 (Canned weight)

Year	U.S. pack	Percent of total	Imports	Percent of total	Total	Exports		Total supply
						Domestic	Foreign	
						-----Thousand pounds-----		
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
1990....	710	6.8	9,735	93.2	10,445	2,463	207	7,775

*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, 1981-90
(Product weight)

Year	Domestic production (1)		Imports (2)		Total
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
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
1990.....	670,328	73.7	239,426	26.3	909,754

(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, 1981-90
(Product weight)

Year	Domestic production (1)	Imports	Total	Exports	
				Domestic	Foreign
-----Thousand pounds-----					
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
1990.....	577,498	239,426	816,924	128,522	4,160

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

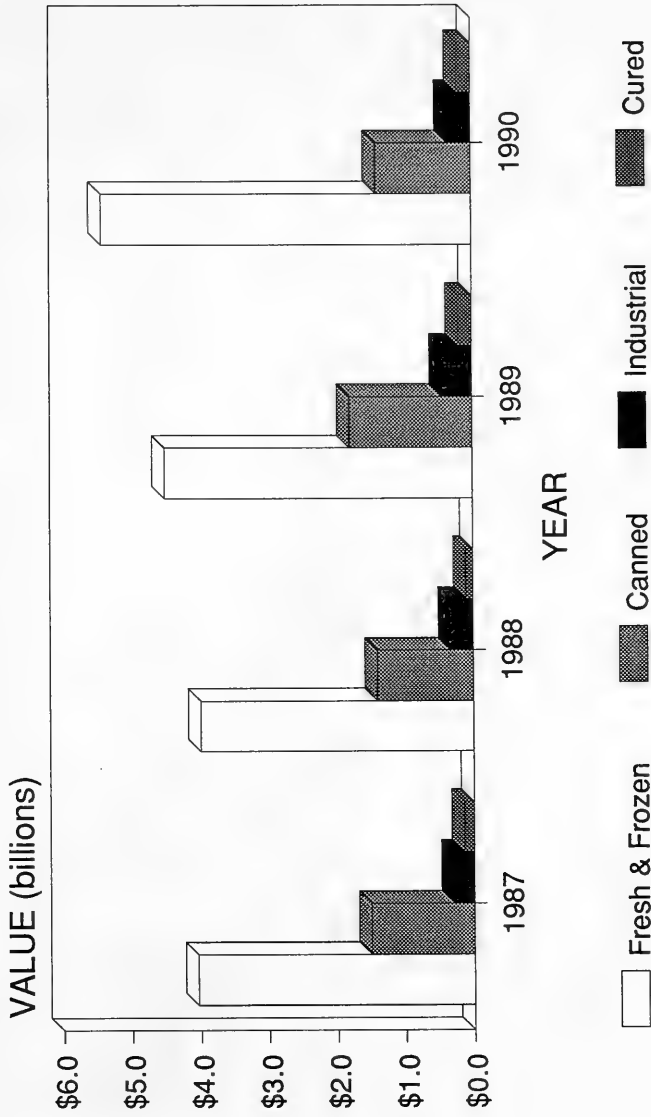
U.S. SUPPLY OF FISH OILS, 1981-90

Year	Domestic production	Imports	Total	Exports	Total supply
-----Thousand pounds-----					
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.....	225,478	25,449	250,927	194,795	56,132
1990.....	281,949	36,702	318,651	222,341	96,310

(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 1987 - 1990



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, 1909-90

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	6.9	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	10.7
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
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

See notes at end of table.

(Continued)

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-90 - Continued

Year	Civilian resident population July 1 (2)	Per capita consumption			
		Fresh and frozen (3)	Canned (4)	Cured (5)	Total
	<u>Million persons</u>	- - - - - Pounds, edible meat - - - - -			
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 (1).....	225.7	7.9	4.3	0.3	12.5
1981 (1).....	227.9	7.8	4.6	0.3	12.7
1982 (1).....	230.3	7.9	4.3	0.3	12.5
1983 (1).....	232.6	8.4	4.7	0.3	13.4
1984 (1).....	234.8	9.0	4.9	0.3	14.2
1985 (1).....	237.0	9.8	5.0	0.3	15.1
1986 (1).....	239.4	9.8	5.4	0.3	15.5
1987 (1).....	241.	*10.7	5.2	0.3	*16.2
1988 (1).....	244.1	10.0	4.9	0.3	15.2
1989 (1).....	246.6	10.2	5.1	0.3	15.6
1990 (1).....	249.2	10.1	5.1	0.3	15.5

(1) Data revised.

(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.

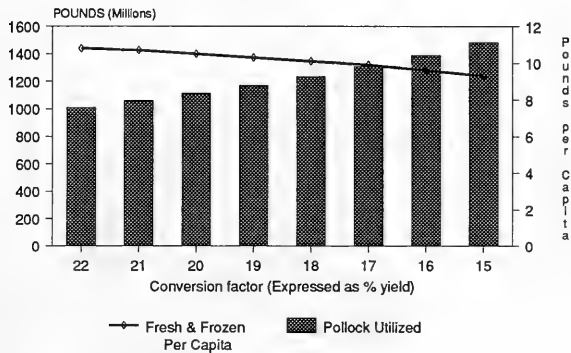
(4) Canned fish consumption for 1911 to 1920 is estimated. Beginning in 1921, it is based on production reports, packer stocks, and foreign trade statistics for individual years.

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

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

*Record.

Effect of Conversion Factors
For Surimi On Fresh And Frozen
Per Capita Consumption



PER CAPITA U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1970-90

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
	-----Pounds-----					
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	0.2	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 (1).....	0.5	0.3	3.0	0.4	0.1	4.3
1981 (1).....	0.5	0.4	3.0	0.4	0.3	4.6
1982 (1).....	0.5	0.3	2.8	0.4	0.3	4.3
1983 (1).....	0.5	0.2	3.2	0.4	0.4	4.7
1984 (1).....	0.6	0.2	3.2	0.4	0.5	4.9
1985 (1).....	0.5	0.3	3.3	0.5	0.4	5.0
1986 (1).....	0.5	0.3	3.6	0.5	0.5	5.4
1987 (1).....	0.4	0.3	3.5	0.5	0.5	5.2
1988 (1).....	0.3	0.3	3.6	0.4	0.3	4.9
1989 (1).....	0.3	0.3	3.9	0.4	0.2	5.1
1990 (1).....	0.4	0.3	3.7	0.3	0.4	5.1

(1) Data revised.

NOTE:--Domestic landings data used in calculating these data are preliminary after 1977.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1970-90

Year	Fillets and steaks (2)	Sticks and portions	Shrimp all preparation
	-----Pounds (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 (1).....	2.4	2.0	1.4
1981 (1).....	2.4	1.8	1.5
1982 (1).....	2.5	1.7	1.5
1983 (1).....	2.7	1.8	1.7
1984 (1).....	3.4	1.8	1.9
1985 (1).....	3.2	1.8	2.0
1986 (1).....	3.4	1.8	2.2
1987 (1).....	*3.6	1.7	*2.4
1988 (1).....	3.2	1.5	2.4
1989 (1).....	3.1	1.5	2.3
1990 (1).....	3.1	1.5	2.2

(1) Data revised.

(2) 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.

(3) Product weight of fillets and steaks and sticks and portions, edible (meat) weight of shrimp.
*Record.

Note:--Domestic landings data used in calculating these data are preliminary after 1977.

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.

Per capita use figures are not comparable with per capita consumption data. 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, 1955-90 (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-----		
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
1990.....	251.4	16,653	38.6	27.6	63.2

(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.

PER CAPITA

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD,
BY REGION AND COUNTRY, 1986-88 AVERAGE

Region and country	Estimated live weight equivalent		Region and country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
North America:					
Canada.....	26.9	59.3			
Greenland.....	85.2	187.8			
St. Pierre and Miquelon.....	75.9	167.3			
United States.....	20.5	45.2			
Caribbean:					
Antigua.....	39.4	86.9			
Aruba.....	42.9	94.6			
Bahamas.....	22.4	49.4			
Barbados.....	32.0	70.5			
Bermuda.....	46.4	102.3			
British Virgin Islands.....	25.7	56.7			
Cayman Islands.....	19.3	42.5			
Cuba.....	21.8	48.1			
Dominica.....	15.9	35.1			
Dominican Republic.....	5.9	13.0			
Grenada.....	31.2	68.8			
Guadeloupe.....	46.7	103.0			
Haiti.....	4.6	10.1			
Jamaica.....	18.6	41.0			
Martinique.....	42.7	94.1			
Montserrat.....	9.3	20.5			
Netherland Antilles.....	25.1	55.3			
St. Christopher-Nevis.....	45.8	101.0			
Saint Lucia.....	14.0	30.9			
St. Vincent.....	8.7	19.2			
Trinidad-Tobago.....	10.9	24.0			
Latin America:					
Argentina.....	6.6	14.6			
Belize.....	7.2	15.9			
Bolivia.....	0.9	2.0			
Brazil.....	6.6	14.6			
Chile.....	19.9	43.9			
Colombia.....	3.4	7.5			
Costa Rica.....	5.3	11.7			
Ecuador.....	10.1	22.3			
El Salvador.....	2.8	6.2			
French Guiana.....	43.5	95.9			
Guatemala.....	0.3	0.7			
Guyana.....	43.0	94.8			
Honduras.....	2.0	4.4			
Mexico.....	9.8	21.6			
Nicaragua.....	0.8	1.8			
Panama.....	13.6	30.0			
Paraguay.....	2.8	6.2			
Peru.....	23.3	51.4			
Suriname.....	7.2	15.9			
Uruguay.....	4.2	9.3			
Venezuela.....	13.2	29.1			
Europe:					
Albania.....	3.3	7.3			
Austria.....	7.2	15.9			
Belgium and Luxembourg.....	18.3	40.3			
Bulgaria.....	7.2	15.9			
Czechoslovakia.....	6.7	14.8			
Denmark.....	19.6	43.2			
Faeroe Island.....	86.4	190.5			
Fed. Rep. of Germany.....	10.8	23.8			
Finland.....	31.1	68.6			
France.....	29.0	63.9			
German Democratic Rep.....	15.2	33.5			
			Europe - Continued:		
			Greece.....	18.0	39.7
			Hungary.....	4.9	10.8
			Iceland.....	92.4	203.7
			Ireland.....	17.7	39.0
			Italy.....	19.7	43.4
			Malta.....	15.0	33.1
			Netherlands.....	8.1	17.9
			Norway.....	44.3	97.7
			Poland.....	19.1	42.1
			Portugal.....	60.1	132.5
			Romania.....	9.2	20.3
			Spain.....	38.0	83.8
			Sweden.....	27.4	60.4
			Switzerland.....	14.1	31.1
			United Kingdom.....	19.2	42.3
			Yugoslavia.....	3.6	7.9
			USSR.....	28.6	63.1
			Near East:		
			Afghanistan.....	0.1	0.2
			Bahrain.....	20.3	44.8
			Cyprus.....	12.7	28.0
			Egypt.....	7.4	16.3
			Iraq.....	3.0	6.6
			Israel.....	1.2	2.6
			Israel.....	19.1	42.1
			Jordan.....	3.5	7.7
			Kuwait.....	10.8	23.8
			Lebanon.....	0.7	1.5
			Libya.....	4.0	8.8
			Oman.....	25.0	55.1
			Qatar.....	9.5	20.9
			Saudi Arabia.....	8.1	17.9
			Sudan.....	1.0	2.2
			Syria.....	0.5	1.1
			Turkey.....	7.1	15.7
			United Arab Emirates.....	25.2	55.6
			Yemen Arab Republic.....	3.0	6.6
			Yemen (Aden).....	16.5	36.4
			Far East:		
			Bangladesh.....	7.4	16.3
			Brunei.....	31.0	68.3
			Burma.....	15.3	33.7
			Cambodia.....	9.1	20.1
			China.....	8.0	17.6
			Hong Kong.....	50.9	112.2
			India.....	3.3	7.3
			Indonesia.....	14.0	30.9
			Japan.....	71.2	157.0
			Laos.....	5.3	11.7
			Macao.....	20.4	45.0
			Maldives.....	129.5	285.5
			Malaysia.....	30.1	66.4
			Mongolia.....	1.3	2.9
			Nepal.....	0.6	1.3
			North Korea.....	42.4	93.5
			Pakistan.....	1.8	4.0
			Philippines.....	33.8	74.5
			Republic of Korea.....	49.6	109.3
			Singapore.....	34.0	75.0
			Sri Lanka.....	14.8	32.6
			Thailand.....	20.8	45.9
			Vietnam.....	13.0	28.7

See footnote at end of table.

(Continued)

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD,
BY REGION AND COUNTRY, 1986-88 AVERAGE - Continued

Region and country	Estimated live weight equivalent	
	Kilograms	Pounds
Africa:		
Algeria.....	4.4	9.7
Angola.....	23.6	52.0
Benin.....	11.1	24.5
Botswana.....	3.1	6.8
Burkina.....	1.8	4.0
Burundi.....	1.2	2.6
Cameroon.....	14.4	31.7
Cape Verde.....	12.2	26.9
Central African Republic.....	5.2	11.5
Chad.....	17.5	38.6
Comoros.....	11.4	25.1
Congo (Brazzaville).....	36.3	80.0
Djibouti.....	3.5	7.7
Equatorial Guinea.....	21.5	47.4
Ethiopia.....	0.1	0.2
Gabon.....	31.1	68.6
Gambia.....	16.0	35.3
Ghana.....	26.0	57.3
Guinea.....	8.4	18.5
Guinea-Bissau.....	3.6	7.9
Ivory Coast.....	16.9	37.3
Kenya.....	5.7	12.6
Lesotho.....	1.8	4.0
Liberia.....	14.6	32.2
Madagascar.....	7.9	17.4
Malawi.....	10.5	23.1
Mali.....	6.8	15.0
Mauritania.....	11.8	26.0
Mauritius.....	17.5	38.6
Morocco.....	7.6	16.8
Mozambique.....	3.0	6.6
Namibia.....	9.0	19.8
Niger.....	0.4	0.9
Nigeria.....	6.7	14.8
Republic of South Africa.....	10.1	22.3
Reunion.....	23.8	52.5
Rwanda.....	0.3	0.7
Sao Tome.....	28.3	62.4
Senegal.....	21.3	47.0
Seychelles.....	54.5	120.2
Sierra Leone.....	14.7	32.4
Somalia.....	2.3	5.1
St. Helena.....	70.7	155.9
Swaziland.....	0.2	0.4
Tanzania.....	14.2	31.3
Togo.....	13.4	29.5
Tunisia.....	11.0	24.3
Uganda.....	12.6	27.8
Zaire.....	9.2	20.3
Zambia.....	8.9	19.6
Zimbabwe.....	2.1	4.6
Oceania:		
Australia.....	18.6	41.0
Fiji.....	47.5	104.3
French Polynesia.....	32.3	71.2
New Caledonia.....	20.6	45.4
New Zealand.....	13.0	28.7
Papua New Guinea.....	24.8	54.7
Solomon Islands.....	52.4	115.5
Tonga.....	29.5	65.0
Vanuatu.....	32.9	72.5
Western Samoa.....	34.0	75.0
World.....	13.1	28.9

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, 1989, vol. 69, Rome.

PRICES

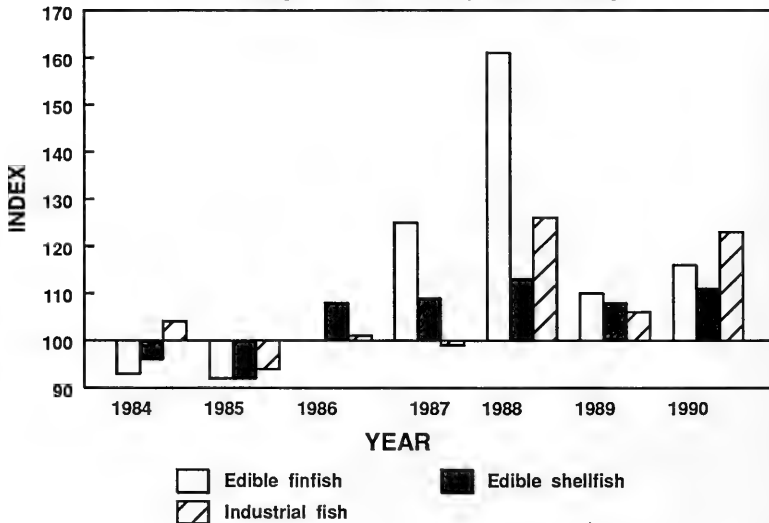
The Exvessel Price table is an Index of changes in the relative dockside value of fish and shellfish sold by fishing vessels. The table indexes the average annual exvessel value (price per pound) received for each species or group to the average price per pound received for the same species or group in the base year 1982.

The exvessel price for each year was obtained by dividing total value for each species or group by its total quantity 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 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 1990, if the price of the same species increased to \$1.05, the index in 1990 would be 105.

EXVESSEL PRICE INDEX, 1984-1990 BASE YEAR 1982 = 100



INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1984-90
(1982=100)

Species	1984 (1)	1985 (1)	1986 (1)	1987 (1)	1988 (1)	1989 (1)	1990
Groundfish, et al:							
Cod.....	77	75	69	88	73	73	83
Haddock.....	142	189	200	257	220	239	220
Pollock:							
Atlantic.....	73	72	115	175	150	191	223
Alaska.....	77	79	85	110	121	134	151
Flounders.....	105	70	64	70	55	66	69
Total groundfish, et al.	98	85	83	101	86	96	100
Halibut.....	62	73	124	135	104	132	159
Sea herring.....	83	144	133	144	162	75	97
Salmon:							
Chinook.....	95	87	90	110	141	85	101
Chum.....	89	87	89	113	206	98	109
Pink.....	111	104	91	147	319	159	138
Sockeye.....	94	114	161	177	258	142	140
Coho.....	91	89	80	145	198	77	105
Total salmon.....	95	102	121	151	232	120	125
Swordfish.....	105	99	115	130	121	119	108
Tuna:							
Albacore.....	90	78	78	111	124	126	127
Bluefin.....	295	160	81	483	587	612	572
Skipjack.....	80	67	68	80	103	86	85
Yellowfin.....	89	76	72	92	114	101	112
Total tuna.....	90	74	71	97	121	108	112
Total edible finfish.....	93	92	100	125	161	110	116
Clams:							
Hard.....	101	92	119	130	164	145	127
Ocean quahog.....	98	98	111	106	103	103	111
Soft.....	137	150	171	145	150	159	213
Surf.....	94	103	104	88	88	88	86
Total clams.....	104	105	122	118	134	127	127
Crabs:							
Blue.....	110	111	124	142	153	158	152
Dungeness.....	159	147	138	138	122	118	162
King.....	79	88	114	114	135	135	145
Snow.....	67	57	72	82	89	92	83
Total crabs.....	91	91	107	113	124	126	131
American lobster.....	113	108	114	127	130	122	110
Oysters.....	119	113	137	165	175	198	227
Scallops:							
Bay.....	127	115	229	140	155	158	149
Calico.....	54	97	186	106	102	88	110
Sea.....	145	129	133	113	115	107	105
Total scallops.....	133	124	146	114	116	109	109
Shrimp:							
Gulf and South Atlantic.	84	77	92	89	90	79	79
Other.....	107	95	113	155	102	92	113
Total shrimp.....	85	77	93	92	91	80	81
Total edible shellfish.....	96	92	108	109	113	108	111
Total edible fish and shellfish.....	95	92	104	116	135	109	113
Industrial fish,							
Menhaden.....	104	94	101	99	126	106	123
All fish and shellfish.....	96	92	104	115	134	109	114

(1) Revised.

VALUE ADDED

SUMMARY OF 1990 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 & 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	\$3,478,541	63.40	\$2,205,545	\$3,478,541	13.3	
Industrial.....	-	100.0	\$93,896	60.87	\$57,157	\$93,896	0.3	
Harvest not landed in U.S....	-	100.0	\$288,311	66.18	\$190,812	\$288,311	1.2	\$288,311
Imports, Unprocessed..	\$2,050,287	-	-	-	-	\$2,050,287	-	
Exports, Unprocessed..	-	-	-	-	-	-	-	\$1,265,772
Primary Wholesale and Processing.....	\$4,356,952	104.9	\$4,570,317	57.5	\$2,626,393	\$8,927,269	15.8	
Imports, Processed....	\$3,231,730	-	-	-	-	\$3,231,730	-	
Exports, Processed....	-	-	-	-	-	-	-	
Secondary Wholesale and Processing:								
Edible.....	\$10,429,326	22.8	\$2,376,564	54.9	\$1,304,742	\$12,805,889	7.8	
Industrial.....	\$153,495	22.8	\$34,978	54.9	\$19,203	\$188,473	0.1	
Retail Trade from Food Service.....	\$6,571,444	177.8	\$11,685,595	73.4	\$8,571,739	\$18,257,040	51.7	
Retail Trade from Stores.....	\$6,234,445	31.9	\$1,989,331	80.5	\$1,600,793	\$8,223,776	9.7	
TOTAL U.S. VALUE ADDED ACTIVITY:					\$16,576,384		100.0	
CONSUMERS EXPENDITURES (& WHOLESALE PURCHASES OF INDUSTRIAL PRODUCTS) FOR FISHERY PRODUCTS:						\$26,669,289		

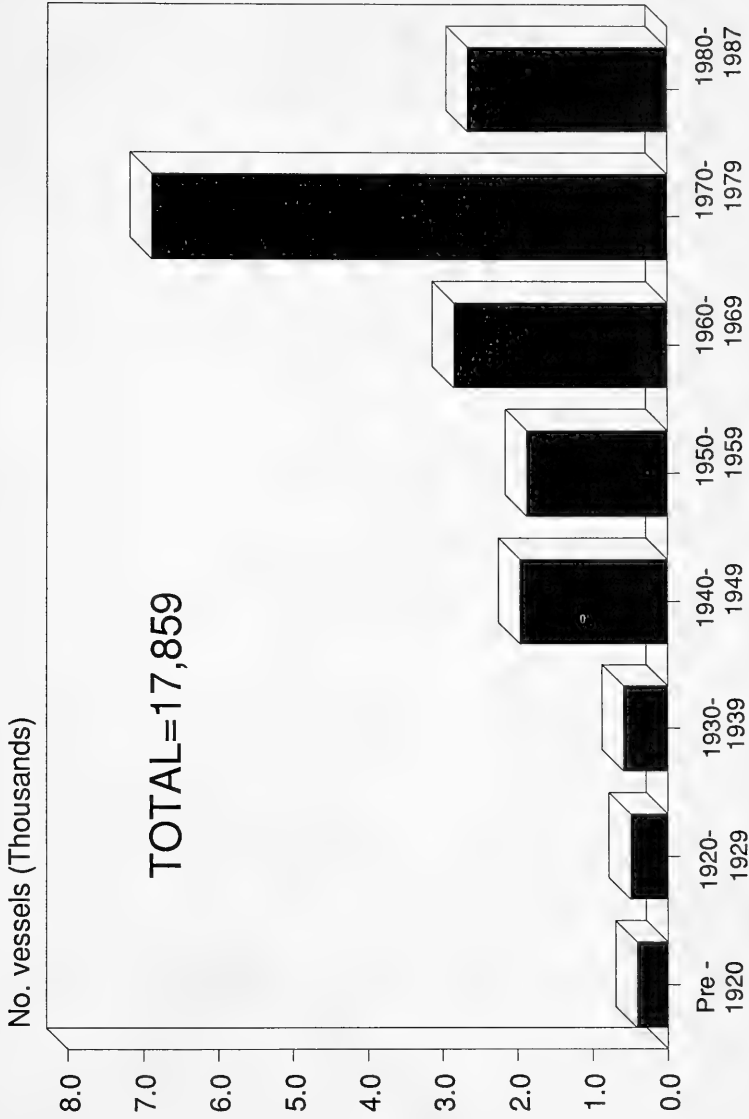
(1) Includes industrial products, landings by U.S.-flag vessels at U.S. and foreign ports, and joint ventures.

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.

1987 U.S. FISHING FLEET, NUMBER OF VESSELS (> 5 GRT) BY YEAR BUILT



EMPLOYMENT, CRAFT, AND PLANTS

NUMBER OF U.S. FISHING VESSELS, BY TONNAGE GROUP, 1987

GROSS TONNAGE	NEW ENGLAND	MIDDLE ATLANTIC	CHESA-PEAKE	SOUTH ATLANTIC	GULF	PACIFIC	AVERAGE GROSS TONS	TOTAL (1)
00 - 09	79	23	1,294	270	453	1,065	8	3,166
10 - 19	261	113	597	427	1,588	1,833	14	4,790
20 - 29	146	57	41	288	1,106	636	24	2,237
30 - 39	117	50	25	225	577	398	34	1,339
40 - 49	104	47	19	151	435	339	44	1,051
50 - 59	64	39	28	110	316	184	54	684
60 - 69	63	38	22	94	335	122	64	627
70 - 79	44	25	12	67	217	92	74	419
80 - 89	36	28	25	84	276	53	84	438
90 - 99	58	50	58	107	530	63	96	749
100 - 109	27	18	34	92	479	34	103	617
110 - 119	65	29	66	34	274	42	115	417
120 - 129	48	29	48	38	197	21	125	306
130 - 139	62	31	35	17	156	23	134	259
140 - 149	50	19	24	18	82	13	144	163
150 - 159	34	9	15	8	32	6	155	89
160 - 169	50	15	31	2	22	12	165	102
170 - 179	25	15	18	2	25	1	174	68
180 - 189	20	8	9	3	19	4	184	49
190 - 199	74	14	28	2	15	12	196	126
200 - 209	-	-	-	-	2	-	204	2
210 - 219	-	-	-	-	1	-	213	1
220 - 229	-	-	2	-	3	-	228	5
230 - 239	-	-	-	-	3	-	234	3
240 - 249	1	-	1	-	3	-	243	4
250 - 259	1	-	5	-	3	-	255	7
260 - 269	-	-	3	-	2	-	264	5
270 - 279	-	-	-	1	1	-	272	2
280 - 289	1	-	-	-	1	-	288	1
290 - 299	-	-	4	-	8	-	295	10
300 - 309	1	-	-	-	3	1	314	4
310 - 319	1	-	-	-	1	-	314	1
320 - 329	1	-	-	-	1	-	326	1
330 - 339	-	-	-	-	1	-	333	1
340 - 349	-	-	1	-	-	-	352	1
350 - 359	-	1	-	-	-	-	364	3
360 - 369	2	-	-	-	2	-	364	3
370 - 379	-	-	-	-	3	-	374	3
380 - 389	-	-	-	-	2	-	385	2

(CONTINUED)

EMPLOYMENT, CRAFT, AND PLANTS

NUMBER OF U.S. FISHING VESSELS, BY TONNAGE GROUP, 1987 - Continued

GROSS TONNAGE	NEW ENGLAND	MIDDLE ATLANTIC	CHESA-PEAKE	SOUTH ATLANTIC	GULF	PACIFIC	AVER-AGE GROSS TONS	TOTAL (1)
410 -	419	-	-	-	1	-	418	1
430 -	439	-	-	-	2	2	435	4
460 -	469	-	-	-	6	-	468	6
470 -	479	-	-	-	3	-	470	3
480 -	489	-	-	-	2	-	487	2
490 -	499	-	-	-	3	-	497	3
500 -	509	-	-	-	1	-	507	1
510 -	519	-	-	-	3	-	518	3
520 -	529	-	-	-	6	-	522	6
530 -	539	-	4	-	20	-	535	23
540 -	549	-	3	-	1	-	542	3
550 -	559	-	5	1	2	-	554	7
560 -	569	-	-	-	1	-	569	1
580 -	589	-	-	-	2	-	597	1
600 -	609	-	-	-	1	4	606	5
610 -	619	-	-	-	-	-	613	1
630 -	639	-	1	1	2	-	633	1
640 -	649	-	-	-	3	-	645	3
650 -	659	-	1	1	-	-	656	2
670 -	679	-	-	1	-	-	672	1
690 -	699	-	2	2	1	-	694	1
720 -	729	-	1	1	-	-	726	2
730 -	739	-	1	1	1	-	733	1
740 -	749	-	1	1	1	-	748	1
750 -	759	-	1	1	-	-	756	2
780 -	789	-	-	-	-	2	787	2
820 -	829	-	-	-	1	-	827	1
910 -	919	-	-	-	1	3	915	1
950 -	959	-	-	-	-	2	958	4
980 -	989	-	-	-	-	1	985	2
990 -	999	-	-	-	-	1	996	1
1020 -	1029	-	-	-	-	-	1,024	1
1030 -	1039	-	-	1	1	-	1,039	1
1070 -	1079	-	-	-	-	1	1,072	1
1090 -	1099	-	-	-	-	-	1,092	1
1100 -	1109	-	-	-	-	1	1,106	1
1150 -	1159	-	-	-	-	-	1,158	1
1180 -	1189	-	-	-	-	2	1,185	2
1590 -	1599	-	-	-	-	1	1,593	1
TOTAL VESSELS	1,434	658	2,464	2,050	7,236	4,960	-	17,659

(1) Total is exclusive of duplication.

NOTE:- This table represents a special survey conducted in 1987 by the National Marine Fisheries Service. Data do not include vessels in the States of Alaska and Hawaii, or the Great Lakes area, but includes a partial estimate for the States of Maryland and Virginia.

EMPLOYMENT, CRAFT, AND PLANTS

LENGTH DISTRIBUTION OF U.S. FISHING VESSELS, 1987

LENGTH IN FEET	NEW ENGLAND	MIDDLE ATLANTIC	CHESA- PEAKE	SOUTH ATLANTIC	GULF	PACIFIC	AVERAGE LENGTH	TOTAL (1)
20 - 29	49	14	26	181	191	1,113	27	1,567
30 - 39	325	112	1,476	574	1,627	1,892	35	5,962
40 - 49	202	105	421	480	1,751	1,232	44	4,084
50 - 59	194	96	71	273	999	358	54	1,888
60 - 69	222	133	169	386	1,778	238	65	2,597
70 - 79	266	129	178	125	671	88	74	1,188
80 - 89	111	46	52	11	88	22	83	270
90 - 99	28	10	11	5	19	6	94	66
100 - 109	21	5	7	3	4	1	104	35
110 - 119	10	3	4	-	5	3	115	18
120 - 129	2	3	13	1	4	1	124	21
130 - 139	2	2	12	-	13	-	134	23
140 - 149	1	-	4	-	12	-	144	16
150 - 159	-	-	1	1	10	8	153	19
160 - 169	1	-	12	1	55	4	164	70
170 - 179	-	-	7	8	-	-	176	8
180 - 189	-	-	-	-	-	1	187	1
190 - 199	-	-	-	1	4	6	195	11
200 - 209	-	-	-	-	2	6	201	8
250 - 259	-	-	-	-	1	-	256	1
260 - 269	-	-	-	-	-	1	267	1
550 - 559	-	-	-	-	-	-	555	1
640 - 649	-	-	-	-	1	-	640	1
Total Vessels	1,434	658	2,464	2,050	7,236	4,980	-	17,859

(1) Total is exclusive of duplication.

NOTE:--This table represents a special survey conducted in 1987 by the National Marine Fisheries Service. Data do not include vessels in the States of Alaska and Hawaii, or the Great Lakes area, but includes a partial estimate for the States of Maryland and Virginia.

PLANTS PRODUCING CANNED FISHERY PRODUCTS, INDUSTRIAL FISHERY PRODUCTS,
AND FISH FILLETS AND STEAKS, 1990

Area and State	Canned fishery products	Industrial fishery products	Fish fillets and steaks	Total plants exclusive of duplication
	-----Number-----			
New England:				
Maine.....	10	1	26	37
Massachusetts.....	-	1	67	68
New Hampshire.....	-	-	1	1
Rhode Island.....	-	-	18	18
Connecticut.....	1	-	2	3
Total.....	11	2	114	127
Mid-Atlantic:				
New York.....	2	1	16	19
New Jersey.....	5	-	-	5
Pennsylvania.....	2	-	1	3
Delaware.....	2	-	-	2
Maryland.....	1	-	-	1
Virginia.....	2	5	5	12
Total.....	14	6	22	42
South Atlantic and Gulf:				
North Carolina.....	-	3	17	20
South Carolina.....	1	-	9	10
Georgia.....	-	1	2	3
Florida.....	1	-	45	46
Alabama.....	-	2	3	5
Mississippi.....	2	3	-	4
Louisiana.....	5	17	22	44
Total.....	9	26	98	132
Pacific:				
Alaska.....	51	8	34	85
Washington.....	21	3	30	49
Oregon.....	3	-	16	17
California.....	6	5	42	51
Total.....	81	16	122	202
Hawaii.....	-	-	9	9
Inland States.....	1	1	18	20
American Samoa.....	2	2	-	2
Puerto Rico.....	5	4	-	5
Grand total.....	123	57	383	539

EMPLOYMENT, CRAFT, AND PLANTS

PROCESSORS AND WHOLESALERS: PLANTS, AND EMPLOYMENT, 1989

State and area	Processing				Wholesale				Total			
	Plants	Employment Season	average Year	Plants	Employment Season	average Year	Plants	Employment Season	average Year	Plants	Employment Season	average Year
New England:												
Maine.....	98	2,129	1,978	285	875	814	383	3,004	2,792			
New Hampshire.....	10	311	309	8	39	39	18	350	348			
Massachusetts.....	109	3,368	3,340	259	1,396	1,373	368	4,764	4,713			
Rhode Island.....	31	478	478	86	372	326	117	850	804			
Connecticut.....	4	78	77	44	197	193	48	275	270			
Total.....	252	6,364	6,182	682	2,879	2,745	934	9,243	8,927			
Mid-Atlantic:												
New York.....	30	400	392	167	1,277	1,274	197	1,677	1,666			
New Jersey.....	17	696	643	61	377	371	78	1,073	1,014			
Pennsylvania.....	9	1,116	1,113	12	182	182	21	1,298	1,295			
Delaware.....	2	539	539	6	21	21	8	560	560			
District of Columbia.....	-	2,336	2,260	4	44	44	4	44	44			
Maryland.....	77	2,800	2,525	54	614	571	123	2,950	2,831			
Virginia.....				54	410	397	131	3,210	2,922			
Total.....	191	7,887	7,472	371	2,923	2,860	562	10,812	10,332			
South Atlantic:												
North Carolina.....	97	1,830	1,664	163	572	506	260	2,402	2,170			
South Carolina.....	18	315	301	82	424	339	100	739	640			
Georgia.....	15	1,283	1,282	58	164	164	73	1,447	1,446			
Florida, East Coast.....	37	1,527	1,499	45	483	483	82	2,010	1,982			
Total.....	167	4,955	4,746	348	1,643	1,492	515	6,598	6,238			
Gulf:												
Florida, West Coast.....	172	4,053	4,032	181	873	843	353	4,926	4,875			
Alabama.....	37	1,628	1,565	91	109	91	91	1,737	1,656			
Mississippi.....	69	2,137	2,093	32	174	174	71	2,311	2,267			
Louisiana.....	181	4,424	3,684	131	1,437	1,301	498	5,861	4,985			
Texas.....	31	1,307	1,273	131	1,307	1,273	162	1,960	1,909			
Total.....	490	13,549	12,647	685	3,246	3,045	1,175	16,795	15,692			
Pacific:												
Alaska (1).....	247	10,841	6,978	20	68	45	267	10,909	7,023			
Washington.....	145	3,810	3,682	163	519	467	308	4,329	4,149			
Oregon.....	35	1,029	996	19	271	267	54	1,300	1,263			
California.....	129	4,845	4,681	388	1,986	1,953	517	6,831	6,634			
Total.....	556	20,525	16,337	590	2,844	2,732	1,146	23,369	19,069			
Inland States (2), Total.....	39	547	540	21	73	69	60	620	609			
Other Areas or States: (3), Total.....	23	12,016	12,013	44	299	299	67	12,315	12,312			
Grand Total.....	1,718	65,843	59,937	2,741	13,999	13,242	4,459	79,752	73,179			

(1) Data for Alaska based on a partial survey. (2) Data covers Colorado, Idaho, Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Nevada, Ohio, South Dakota, Utah, Wisconsin, and a partial survey conducted for other States. (3) Includes American Samoa, Guam, Hawaii, Northern Marianas, and Puerto Rico.

FISHERY PRODUCTS INSPECTION

FISHERY PRODUCTS AND ESTABLISHMENTS INSPECTED IN CALENDAR YEAR, 1990

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.....	5	55	60,380	206,991	54,788	121,453	443,612
Southeast.....	0	94	27,961	27,580	34,828	56,095	146,464
West.....	4	64	30,106	33,102	84,932	103,808	251,947
Total, 1990.....	9	213	118,447	267,673	174,548	281,355	842,023
Total, 1989.....	6	160	117,432	190,141	80,993	174,604	563,170

(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). 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 Council, 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 1990 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 1990 poundage fees were expected to continue to decrease as foreign fishing falls to very low levels. No incremental fees were paid in 1990.

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 1990 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.

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.

THE MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT

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, 1990, 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 1990, two new FMP's

were adopted by a Council, submitted for Secretarial review and approved. As of December 31, 1990, there are 32 fishery management plans in place. The FMPs are listed below, and those marked with an asterisk (*) were approved and implemented during 1990. 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 1990.

American Lobster
Northeast Multispecies
Atlantic Billfishes
Atlantic Bluefish (*)
Atlantic Coast Red Drum (*)
Atlantic Mackerel, Squid, and Butterfish
Atlantic Salmon
Atlantic Sea Scallops (**)
Atlantic Surf Clams and Ocean Quahoggs
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 1990, 428 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

<u>Council</u>	<u>States</u>	<u>Telephone Number</u>	<u>Executive Director</u>
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)	809-753-6910	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 FISHING ALLOCATIONS:
NORTH ATLANTIC, BY SPECIES AND COUNTRY, 1990 (1)

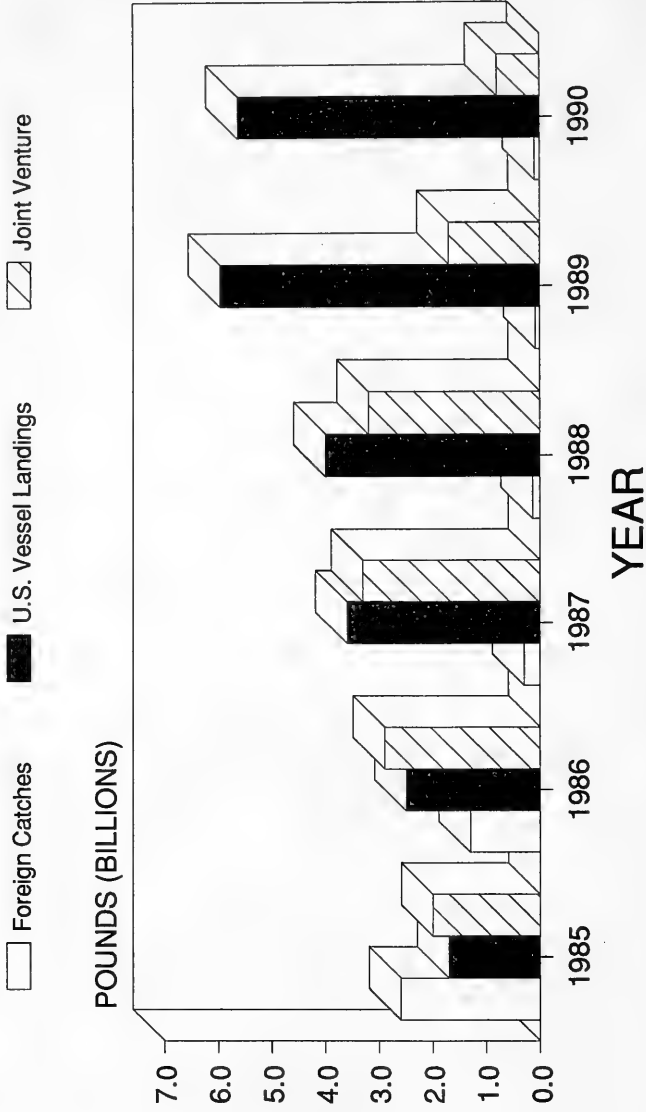
Item	Red hake	Silver hake	Loligo squid (2)	Illex squid (2)	Atlantic mackerel (3) (4)	Butterfish (2)	River herring	Other finfish	Total
-----Metric tons, round weight-----									
Max Optimum yield (OY).....	2,500	27,000	44,000	30,000	N/A	16,000	8,000	247,000	-
ABC.....	-	-	37,000	22,500	333,000	16,000	-	-	-
Initial Optimum yield.....	2,500	27,000	31,010	18,000	114,000	10,019	8,000	247,000	457,529
DAH.....	1,400	22,000	31,000	18,000	90,000	10,000	7,800	200,200	380,400
DAP.....	1,400	19,000	-	15,000	24,000	10,000	7,800	180,000	257,200
JVP.....	-	3,000	-	3,000	54,000	-	-	20,200	80,200
Reserve.....	900	4,500	N/A	N/A	N/A	N/A	-	-	5,400
TALFF.....	200	500	10	-	24,000	19	200	46,800	71,729
Country Allocations									
German Democratic Republic.....	5	15	2	-	16,500	5	30	100	16,657
Poland.....	5	15	2	-	2,334	5	20	50	2,431
Total.....	10	30	4	-	18,834	10	50	150	19,088
Unallocated.....	5,475	13,320	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.
 N/A:--Not Applicable.

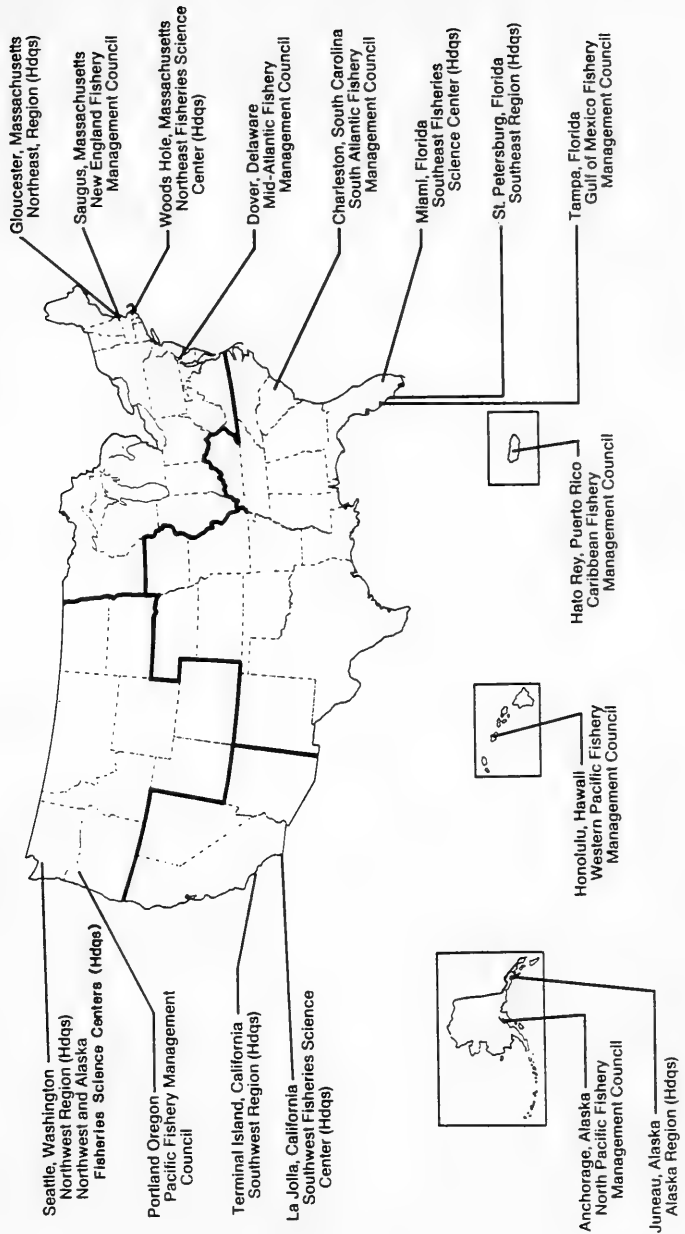
Source:--NMFS, Office of Trade and Industry Service, F/TS2.

COMMERCIAL CATCHES IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ) 1985 - 1990

1985 - 1990



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 -- Michael F. Tillman	301-427-2239
Fx2	Program Management Officer -- Samuel W. McKeen	301-427-2239
Fx3	Senior Scientist for Fisheries -- Michael P. Sissenwine	301-427-2239
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F/BP	Budget and Planning Office -- John E. Oliver, Jr.	301-427-2250
F/PC	Policy and Coordination Office -- John T. Everett	301-427-2253
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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	301-427-2325
F/PR4	Conservation Science Division	301-427-2319

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(*) Office is located at 1825 Connecticut Ave., NW (Universal Bldg., South) Room 6220,
Washington, DC 20235.

GENERAL ADMINISTRATIVE INFORMATION

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NATIONAL MARINE FISHERIES SERVICE

Silver Springs, Md. 20910

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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 -- Henry R. Beasley	301-427-2272
F/IA1	Organizations and Agreements Division	301-427-2276
F/IA2	International Science, Development and Polar Affairs Division	301-427-2288
IA11	Office of Congressional Affairs - Fisheries -- William Price	301-427-2263
PAF	Office of Public Affairs - Fisheries -- Roddy Moscoso	301-427-2370
GCF	Office of General Counsel - Fisheries -- Margaret Frailey Hayes	301-427-2231

REGIONAL FACILITIES

<u>Location</u>	<u>Telephone number</u>	
Gloucester, MA	508-281-9300	Northeast Region, One Blackburn Drive Gloucester, MA 01930
Woods Hole, MA	617-548-5123	Northeast Fisheries Science Center Woods Hole, MA 02543
Woods Hole, MA	617-548-5123	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

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GENERAL ADMINISTRATIVE INFORMATION

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES - Continued

<u>Location</u>	<u>Telephone number</u>	
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 Pascagoula, 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 77551
Charleston, SC	803-762-1200	Charleston Laboratory, 217 Fort Johnson Rd. P.O. Box 12607 Charleston, SC 29412
Beaufort, NC	919-728-8724	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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REGIONAL FACILITIES - Continued

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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

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Insurance - vessel seizure by foreign governments
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Fisheries regulations
State grants

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Saltonstall-Kennedy (S-K) grants
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INTERNATIONAL FISHERIES -- 301-427-2272

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Foreign fisheries (general)

LAW ENFORCEMENT AND FINES -- 301-427-2300

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

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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

<u>City</u>	<u>Telephone number</u>	<u>Name and address</u>
<u>NORTHEAST REGION</u>		
<u>NEW ENGLAND</u>		
Portland	207-780-3322	Robert C. Morrill or Scott McNamara, 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
Boston	617-223-8012	Louis O'Donnell, 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 Spenle, 29C Stage Harbor Road Chatham, MA 02633
(1) 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
<u>MIDDLE ATLANTIC</u>		
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, 75 Oak St., Social Security Bldg. P.O. Box 606, Patchogue, 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	Walt Makowski, 1382 Lafayette St., P.O. Box 624, Cape May, NJ 08204
<u>CHESAPEAKE</u>		
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
<u>SOUTHEAST REGION</u>		
<u>SOUTH ATLANTIC</u>		
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	Richard F. Dumas, Federal Bldg., 801 Gloucester St., Rm. 302, Brunswick, GA 31520
New Smyrna Beach	904-427-6562	Claudia Dennis, 200 Canal St., Room 200 New Smyrna Beach, FL 32168
(1) 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)

GENERAL ADMINISTRATIVE INFORMATION

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NATIONAL MARINE FISHERIES SERVICE

NATIONAL FISHERY STATISTICS OFFICES

<u>City</u>	<u>Telephone number</u>	<u>Name and address</u>
<u>GULF</u>		
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, 2000 Main St., Suite 409 Fort Myers, FL 33901
St. Petersburg	813-893-3151	VACANT, 9450 Koger Blvd., St. Petersburg, FL 33702
Panama City	904-234-6541	Deborah Fable, 3500 Delwood Beach Rd., Panama City, FL 32407
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
(1) New Orleans	504-589-6153	Leryes "Lee" Usie, World Trade Center, 2 Canal St., Suite 400-H, New Orleans, LA 70130
Rockport	512-729-0189	Thomas N. Scott, Roy Spears, NMFS - Statistics P.O. Box 2259, Rockport, TX 78382
Brownsville/ Port Isabel	512-548-2516	Kit Doncaster or Edie Lopez, Harbor Masters Bldg., Shrimp Basin, P.O. Box 467, Brownsville, 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
<u>SOUTHWEST REGION</u>		
(1) Terminal Isl., CA or Honolulu, HI	213-514-6674	Patricia J. Donley, 300 S. Ferry St., P.O. Box 3266, Terminal Island, CA 90731
<u>NORTHWEST REGION</u>		
(1) Seattle	206-526-6128	John K. Bishop, 7600 Sand Point Way, N.E., Bldg., 1, BIN C15700, Seattle, WA 98115
<u>ALASKA REGION</u>		
(1) Juneau	907-586-7221	Jessica A. Gharrett, 9109 Mendenhall Mall Road, Federal Building Annex Suite 6, P.O. Box 21668, Juneau, AK 99802

(1) 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.

- | | |
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| <ul style="list-style-type: none"> () Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coast, 1987-1989 C.F.S. No. 8904 () 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 | <ul style="list-style-type: none"> () 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 |
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- 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.
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Stock Number

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

STATISTICAL REPORTS

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

003-020-00160-2 Fisheries of the United States,
1989. . . \$6.50

MISCELLANEOUS REPORTS

003-017-00531-3 Bering, Chukchi and Seas
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Atlas 1988. . . \$184.00

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

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. . . \$138.00

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Nutrition From the Sea
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202-783-3238

PUBLICATIONS

PUBLICATIONS AVAILABLE FROM NATIONAL TECHNICAL INFORMATION SERVICE (NTIS),
U.S. DEPARTMENT OF COMMERCECOMMERCIAL 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	1989	PB-91-129320

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-75-50249
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

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OTHER PUBLICATIONS

Processors and Wholesale Dealers of Fishery Products in U.S. 1989 (shows firm name, address, and major products), PB-91-129429

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.

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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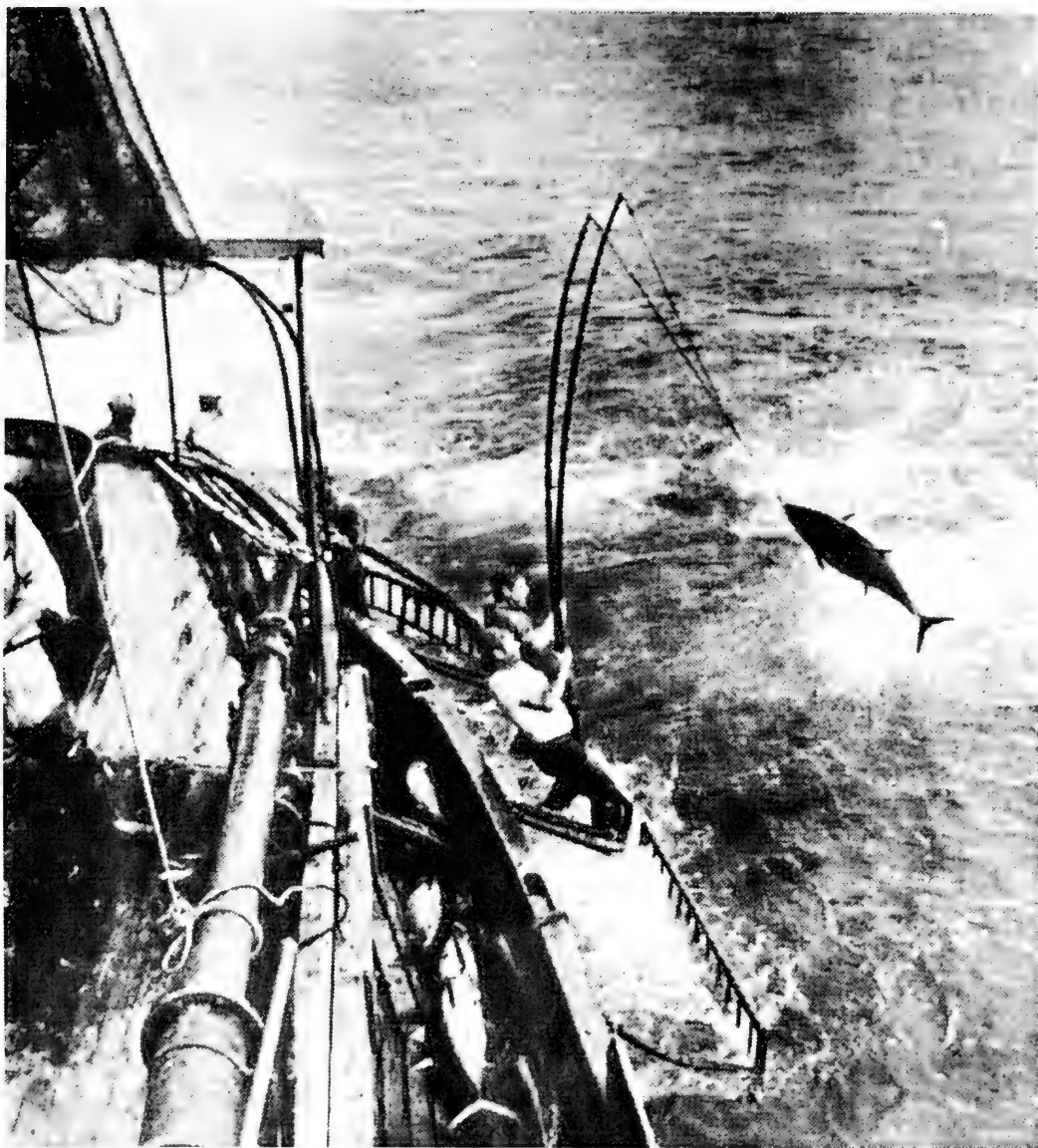
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GLOSSARY

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 salmon, 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 filets of a fish joined together by the belly skin. See filets.

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 instant physical contact with the seabed or subsoll 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.

CUSTOMS TERRITORY. Unless otherwise noted, the foreign trade information presented is based on Bureau of the Census data for the Customs territory of the United States. The territory includes the 50 States, District of Columbia, Puerto Rico, and the U.S. Virgin Islands.

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 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.

GROUND FISH. 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 "Fisheries of the United States," the term applies to the following species—Atlantic and Pacific cod; Atlantic and Pacific ocean perch; cusk; haddock; and Atlantic and Alaska pollock.

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.

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 Economic 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. This definition is used in the NMFS Marine Recreational Fishery Statistics Survey, and is not intended to represent a NMFS policy on the sale of angler-caught fish.

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.

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.

statement signifies that the properly 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.

FOR FURTHER INFORMATION

Northeast Inspection Branch
National Marine Fisheries
Service
One Blackburn Drive
Gloucester, MA 01930
(608) 281-9300

Southeast Inspection Branch
National Marine Fisheries
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National Seafood
Inspection Laboratory
National Marine Fisheries
Service
3209 Frederic St.
P.O. Drawer 1207
Pascagoula, MS 39567
(601) 762-7402

Western Inspection Branch
National Marine Fisheries
Service
5600 Rickenbacker Road
Building No. 7
Bell, CA 90201
(213) 894-5369

Inspection Services Division
National Marine Fisheries
Service
1335 East-West Highway
Silver Spring, MD 20910
(301) 427-2355



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

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service F/RE1
1335 East West Highway
Silver Spring, MD 20910



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