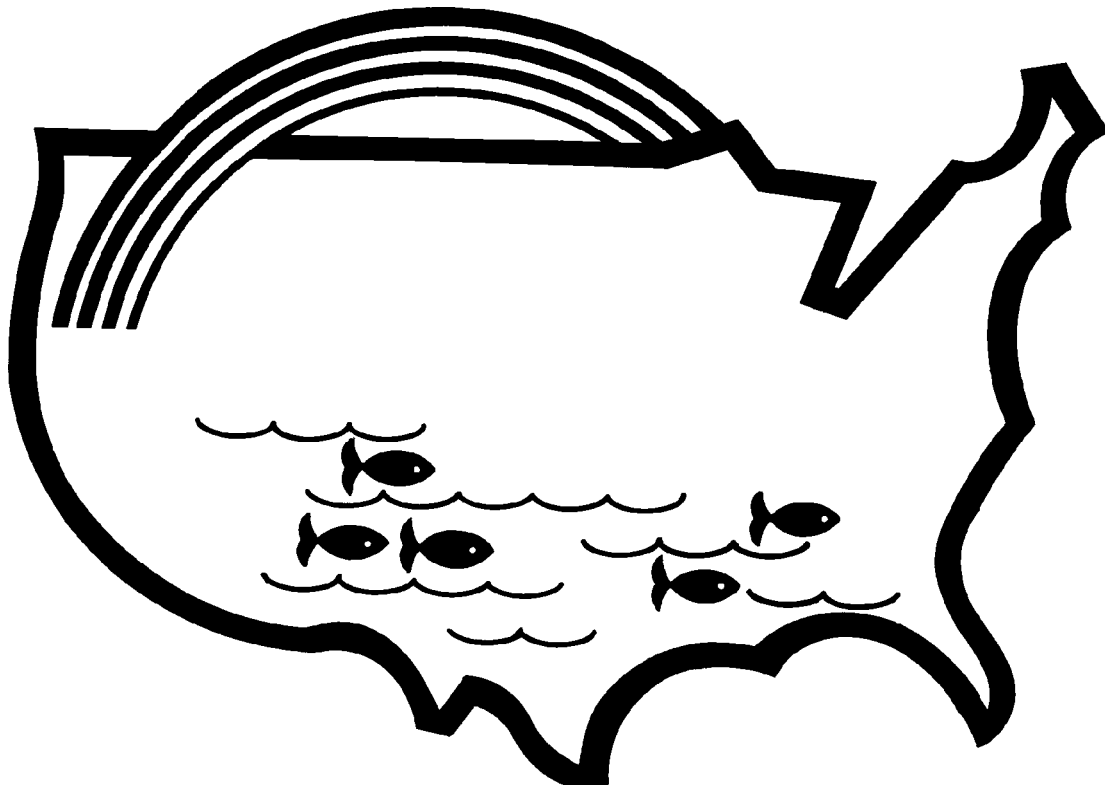


Current Fishery Statistics No. 9800

Fisheries of the United States, 1998

July 1999



**U.S. DEPARTMENT
OF COMMERCE**

**National Oceanic and
Atmospheric Administration**

**National Marine
Fisheries Service**

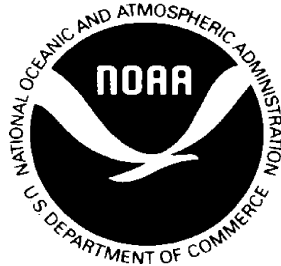
Current Fishery Statistics No. 9800

Fisheries of the United States, 1998

Prepared by:
Fisheries Statistics and Economics Division

Mark C. Holliday, Chief
Barbara K. O'Bannon, Editor

Silver Spring, MD
July 1999



U.S. DEPARTMENT OF COMMERCE

William Daley, Secretary

National Oceanic and Atmospheric Administration

D. James Baker, Under Secretary

National Marine Fisheries Service

Penelope D. Dalton, Assistant Administrator

PREFACE

FISHERIES OF THE UNITED STATES, 1998

This publication is a preliminary report for 1998 on commercial and recreational fisheries of the United States with landings from the U.S. territorial seas, U.S. Exclusive Economic Zone (EEZ), and on the high seas. This annual report provides timely answers to frequently asked questions.

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 Fisheries Statistics and Economics 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, and the Food and Agriculture Organization (FAO) of the United Nations.

PRELIMINARY AND FINAL DATA

Data on U.S. commercial landings, employment, prices, production of processed products, and recreational catches are preliminary for 1998. Final data will be published in other NMFS Current Fishery Statistics publications.

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

Program leaders of the field offices were: Gregory Power, New England, Middle Atlantic, and Chesapeake; Scott Nelson, National Biological Service Science Center, Great Lakes States; Nelson Johnson, Guy Davenport, Maggie Bourgeois, and Margot Hightower for the South Atlantic and Gulf States; Patricia J. Donley, California and Hawaii; John K. Bishop, Oregon and Washington; and David Ham, Alaska.

NOTES

The time series of U.S. catch by species and distance from shore included in this year's "Fisheries of the U.S." is estimated by the National Marine Fisheries Service.

As in past issues of this publication, the units of quantity and value are defined as follows unless otherwise noted: U.S. landings are shown in round weight (except mollusks which are in meat weight); quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census; the value of the U.S. domestic commercial landings is exvessel in the Review Section on important species actual and deflated exvessel prices are shown. The deflated value was computed using the Gross Domestic Products Implicit Price Deflator); 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 (International Trade Commission) and reported by the U.S. Bureau of the Census.

SUGGESTIONS

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

Address all comments or questions to:

Fisheries Statistics and Economics
Division, (F/ST1)
National Marine Fisheries Service, NOAA
1315 East-West Highway - Rm. 12340
Silver Spring, MD 20910-3282
PHONE: 301-713-2328
FAX: 301-713-4137

Members of the Fisheries Statistics and Economics Division in Silver Spring who helped with this publication were: Daryl Bullock, Rita Curtis, Kim Dawson, Josanne Fabian, Karen Foster, Amy Gautam, Kirk Gillis, Laurie Hamilton, Emily Hanson, Rob Hicks, John Hoey, Deborah Hogans, Mark Holliday, Steven Koplin, Alan Lowther, Terri Muller, Sharon Newman, Barbara O'Bannon, Maury Osborn, Liz Pritchard, Warren Schlechte, David Sutherland, Glen Taylor, William Uttley, David Van Voorhees, John Ward, and Lelia Wise. Summer students Michelle Carhart, Elinor Lichtenberg, and Melissa Millikin also assisted.

CONTENTS

| | Page | | Page |
|--|------|--|-------------------|
| PREFACE AND ACKNOWLEDGEMENT | ii | U. S. SUPPLY: | |
| REVIEW | iv | Finfish and shellfish | 77 |
| U. S. COMMERCIAL FISHERY LANDINGS: | | All fillets and steaks | 79 |
| Species | 1 | Groundfish fillets and steaks | 79 |
| Disposition | 5 | Tuna, fresh and frozen | 80 |
| Regions and states | 6 | Canned sardines | 81 |
| Ports | 7 | Canned salmon | 81 |
| Catch by species and distance-from- shore (thousand pounds) | 8 | Canned tuna | 81 |
| Catch by species and distance-from- shore (metric tons) | 14 | King crab | 82 |
| U. S. Landings for territorial possessions | 20 | Snow (tanner) crab | 82 |
| U. S. Aquaculture production, estimated 1992-1997 | 23 | Canned crabmeat | 82 |
| U.S. MARINE RECREATIONAL FISHERIES: | | Lobster, American | 83 |
| Harvest by species | 29 | Lobster, spiny | 83 |
| Harvest by mode of fishing and species group | 32 | Clams | 84 |
| Harvest by distance-from-shore and species group | 36 | Oysters | 84 |
| Harvest and total live releases by species group | 40 | Scallops | 84 |
| Finfish harvest and releases by state | 45 | Shrimp | 85 |
| Number of anglers and trips by state | 46 | Industrial | 86 |
| WORLD FISHERIES: | | PER CAPITA: | |
| Aquaculture and commercial catch | 47 | U.S. Consumption | 87 |
| Countries | 48 | Canned products | 89 |
| Continents | 49 | Certain items | 89 |
| Fishing areas | 49 | World, by region and country | 90 |
| Species groups | 50 | U.S. Use | 92 |
| Disposition | 50 | VALUE ADDED | 93 |
| Imports and exports, by leading countries | 51 | PRICES, INDEX OF EXVESSEL | 94 |
| U. S. PRODUCTION OF PROCESSED FISHERY PRODUCTS: | | EMPLOYMENT, CRAFT, AND PLANTS | 96 |
| Value | 53 | FISHERY PRODUCTS INSPECTION | 98 |
| Fish sticks, fish portions, and breaded shrimp | 53 | MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT OF 1976 (MFCMA): | |
| Fillets and steaks | 54 | General | 100 |
| Canned | 55 | Optimum yield, U S capacity, reserve, and allocations | 103 |
| Industrial | 57 | GENERAL ADMINISTRATIVE INFORMATION - NATIONAL MARINE FISHERIES SERVICE | |
| U. S. COLD STORAGE HOLDINGS | 58 | Administrative Offices | 104 |
| U. S. IMPORTS: | | Region Offices | 106 |
| Principal items | 63 | Statistical Port Agents | 108 |
| Edible and nonedible | 64 | PUBLICATONS: | |
| Continent and country | 65 | NOAA Library Services | 110 |
| Blocks | 66 | Government Printing Office | 110 |
| Groundfish fillets and steaks, species | 66 | National Marine Fisheries Service -- National Technical Information Service | 111 |
| Canned tuna and quota | 67 | SERVICES: | |
| Shrimp, country of origin | 68 | National Marine Fisheries Service: | |
| Shrimp, by product type | 69 | NMFS HomePages | 118 |
| Industrial | 69 | FAX-on-Demand | 120 |
| U. S. EXPORTS: | | Sea Grant Marine Advisory | 122 |
| Principal items | 70 | Inspection | Inside back cover |
| Edible and nonedible | 71 | GLOSSARY | 124 |
| Continent and country | 72 | INDEX | 128 |
| Lobsters | 73 | | |
| Shrimp | 73 | | |
| Salmon | 74 | | |
| Surimi | 74 | | |
| Crab | 75 | | |
| Crabmeat | 75 | | |
| Industrial | 76 | | |

REVIEW

U.S. LANDINGS. Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 states were 9.2 billion pounds or 4.2 million metric tons valued at \$3.1 billion in 1998--a decrease of 649.3 million pounds (down 7 percent) and a decrease of \$319.1 million (down 9 percent) compared with 1997. The volume of 1998 U.S. landings decreased, especially in Pacific waters affected by El Niño, for the following major species: cod, yellowfin flounder, herring, rockfish, squid and seaweed (kelp). The decreased value in 1998 was associated with decreased landings of several major species and lower prices for cod, herring, menhaden, pollock (walleye), tuna and some species of flounders. Finfish accounted for 86 percent of the total landings, but only 46 percent of the value. The 1998 exvessel price paid to fishermen was 34 cents compared to 35 cents in 1997.

Commercial landings by U.S. fishermen at ports outside the 50 states or transferred onto foreign vessels (joint ventures) provided an additional 400.8 million pounds (181,800 metric tons) valued at \$165.9 million. This was a 6 percent, or 22.2 million pounds (10,100 metric ton) increase in quantity, but a decrease of \$19.6 million (23 percent) in value compared with 1997. Most of these landings consisted of halibut, sea herring, Atlantic mackerel, snapper and tuna landed in Canada, Puerto Rico, American Samoa and other foreign ports.

Edible fish and shellfish landings in the 50 states were 7.2 billion pounds (3.3 million metric tons) in 1998--a decrease of 75 million pounds (34,000 metric tons) compared with 1997.

Landings for reduction and other industrial purposes were 2.0 billion pounds (916,500 metric tons) in 1998--a decrease of 22 percent compared with 1997.

The 1998 U.S. marine recreational finfish catch (including fish caught and released alive (discarded)) on the Atlantic, Gulf, and Pacific coasts

was an estimated 312.3 million fish taken on an estimated 60.3 million fishing trips. The harvest (fish kept) was estimated at 135.5 million fish weighing 194.7 million pounds.

There were significant reductions in the 1998 landings of many Pacific coast fisheries that may be associated with El Niño. The 1997-98 El Niño was the strongest on record and had spectacular impacts on weather, marine ecosystems and fisheries. El Niño, Spanish for little boy or Christ child, is the name associated with the appearance of unusually warm eastern and central tropical Pacific ocean waters. The El Niño phenomena results from interactions between the surface layers of the ocean and atmospheric circulation. During an El Niño the western Pacific trade winds are weak and don't produce the upwelling of cool, nutrient rich waters in the eastern Pacific. This causes a rise in sea surface temperature which reduces primary productivity, adversely affecting higher trophic levels of the food chain including commercial fisheries. Ocean temperatures averaging 4-8 degrees F above normal were recorded in an area exceeding 9.5 million square miles during one El Niño month. These anomalies force fish to migrate in search of cooler waters and food. Many fish, unable to migrate, die from lack of food or unbearable temperature elevation. Those species that are able to migrate may also suffer because of drastic temperature changes when they are in water not affected by El Niño. These temperature- and food-driven changes in species distributions result in marlin, swordfish, mackerel and turtles being caught in waters they normally do not inhabit such as off of the Pacific northwest coast of the U.S.

WORLD LANDINGS. In 1997, the most recent year for which data are available, world commercial fishery landings and aquaculture were 122.1 million metric tons--an increase of 2.2 million metric tons (up 2 percent) compared with 1996.

REVIEW

China was the leading nation with 28.7 percent of the total harvest; Peru, second with 6.4 percent; Japan, third with 5.5 percent; Chile, fourth with 5.0 percent; and United States, fifth with 4.5 percent.

PRICES. The 1998 annual exvessel price index for edible fish and shellfish declined 5 percent while industrial fish remained unchanged when compared with 1997. Exvessel price indices decreased for 20 of the 33 species groups being tracked, increased for 10 species groups and were not calculated for calico scallops. The snow crab price index had the largest increase (29 percent) while the 'other shrimp' price index showed the largest decrease (147 percent).

PROCESSED PRODUCTS. The estimated value of the 1998 domestic production of edible and nonedible fishery products was \$7.4 billion, \$748.3 million less than the \$8.1 billion in 1997. The value of edible products was \$6.8 billion--a decrease of \$748.4 million compared with 1997. The value of industrial products was \$579.1 million in 1998--an increase of \$39,000 compared with 1997.

FOREIGN TRADE. The total import value of edible and nonedible fishery products was \$15.6 billion in 1998--an increase of \$1.1 billion compared with 1997. Imports of edible fishery products (product weight) were 3.6 billion pounds (1.7 million metric tons) valued at \$8.2 billion in 1998--an increase of 308.2 million pounds and \$418 .9 million compared with 1997. Imports of nonedible (i.e., industrial) products were \$7.4 billion--an increase of \$685.4 million compared with 1997.

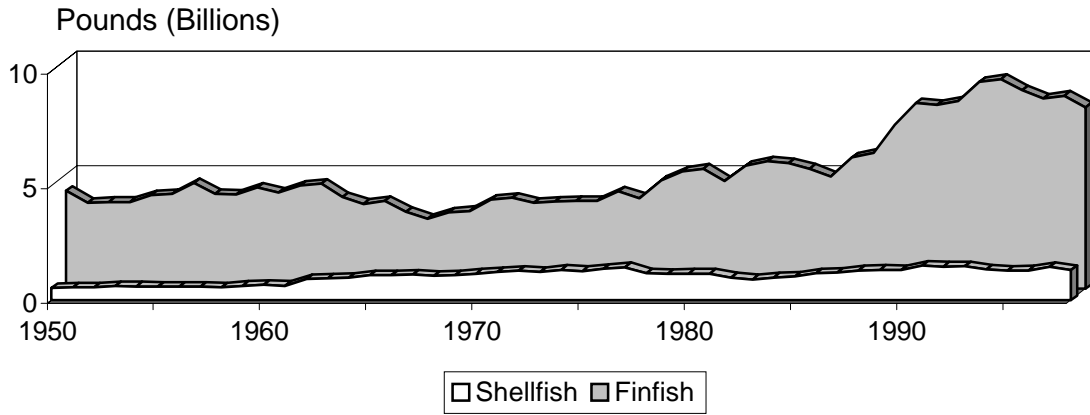
Total export value of edible and nonedible fishery products was \$8.7 billion in 1998--a decrease of \$648.2 million compared with 1997. United States firms exported 1.7 billion pounds (766,100 metric tons) of edible products valued at \$2.3 billion--a decrease of 329.9 million pounds, and \$445.1 million compared with 1997. Exports of nonedible products were valued at \$6.4 billion, \$203.1 million less than 1997.

SUPPLY. The U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent, minus exports) was 10.5 billion pounds (4.7 million metric tons) in 1998--an increase of 1.4 billion pounds (15 percent) compared with 1997. The supply of industrial fishery products was 1.5 billion pounds (700 million metric tons) in 1998--a decrease of 939.0 million pounds (38 percent) compared with 1997.

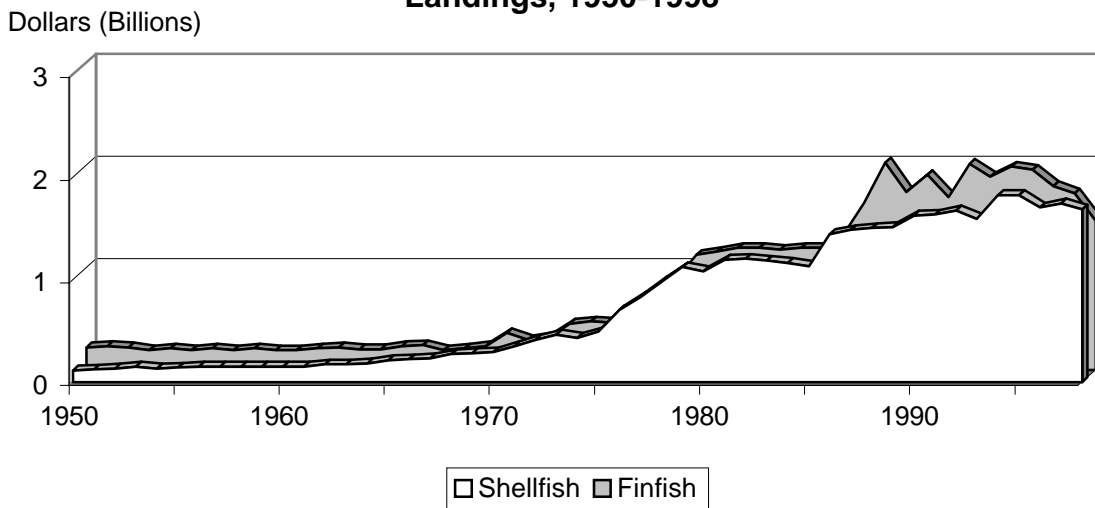
PER CAPITA CONSUMPTION. U.S. consumption of fishery products was 14.9 pounds of edible meat per person in 1998, up 0.3 pound from the 1997 per capita consumption of 14.6 pounds.

CONSUMER EXPENDITURES. U.S. consumers spent an estimated \$49.3 billion for fishery products in 1998. The 1998 total includes \$32.4 billion in expenditures at food service establishments (restaurants, carry-outs, caterers, etc.); \$16.6 billion in retail sales for home consumption; and \$250.9 million for industrial fish products. By producing and marketing a variety of fishery products for domestic and foreign markets, the commercial marine fishing industry contributed \$25.4 billion (in value added) to the U.S. Gross National Product.

Volume Of U.S. Domestic Finfish & Shellfish Landings, 1950-1998



Value Of U.S. Domestic Finfish & Shellfish Landings, 1950-1998



REVIEW

OTHER IMPORTANT FACTS

Alaska led all states in volume with landings of 4.9 billion pounds, followed by Louisiana, 1.1 billion; Virginia, 591.9 million; Washington, 419.0 million; and California, 336.1 million pounds.

Alaska led all states in value of landings with \$951.5 million, followed by Louisiana, \$291.9 million; Maine, \$216.4 million; Massachusetts, \$204.4 million; and Florida, \$188.6 million.

Dutch Harbor-Unalaska, Alaska, was the leading U.S. port in quantity of commercial fishery landings, followed by: Reedville, Virginia; Kodiak, Alaska; Empire-Venice, Louisiana; Seattle, Washington, and Cameron, Louisiana.

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

Tuna landings by U.S.-flag vessels at ports outside the continental United States amounted to 394.5 million pounds. Halibut, snapper, Atlantic mackerel, and sea herring also were landed at ports outside the United States or transferred to foreign vessels (joint ventures) in U.S. waters.

Major U.S. Domestic Species Landed in 1998 - Ranked By Quantity and Value (Numbers in thousands)

| <u>Rank</u> | <u>Species</u> | <u>Pounds</u> | <u>Rank</u> | <u>Species</u> | <u>Dollars</u> |
|-------------|-------------------|---------------|-------------|-------------------|----------------|
| 1 | Pollock (walleye) | 2,716,458 | 1 | Shrimp | 515,616 |
| 2 | Menhaden | 1,705,677 | 2 | Crabs | 473,378 |
| 3 | Salmon | 644,434 | 3 | Lobsters | 278,016 |
| 4 | Cod | 580,507 | 4 | Salmon | 257,456 |
| 5 | Crabs | 552,716 | 5 | Pollock (walleye) | 190,152 |
| 6 | Hakes | 542,761 | 6 | Clams | 135,237 |
| 7 | Flounders | 391,178 | 7 | Cod | 113,191 |
| 8 | Shrimp | 277,757 | 8 | Menhaden | 103,836 |
| 9 | Herring (sea) | 272,017 | 9 | Flounders | 96,802 |
| 10 | Clams | 107,959 | 10 | Tuna | 94,462 |

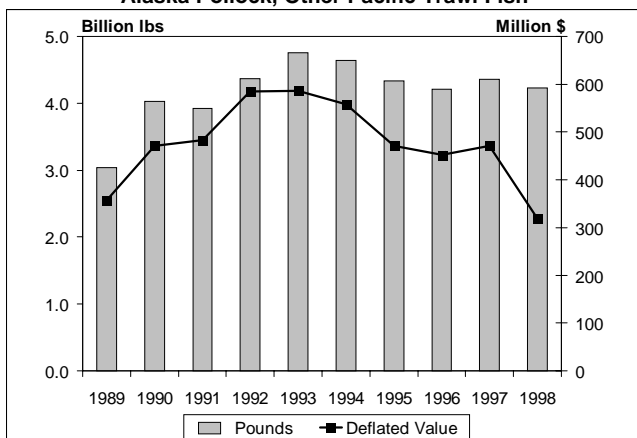
REVIEW

IMPORTANT SPECIES

ALASKA POLLOCK AND OTHER PACIFIC TRAWL FISH. U.S. landings of Pacific trawl fish (Pacific cod, flounders, hake, Pacific ocean perch, Alaska pollock, and rockfishes) were 4.2 billion pounds valued at \$358.9 million--a decrease of 3 percent in quantity and a 32 percent decrease in value compared with 1997.

Landings of Alaska pollock increased 8 percent to 2.7 billion pounds but were 5 percent lower than the 1993 - 1997 5 - year average. Landings of Pacific cod were 556.0 million pounds -- a decrease of 16 percent from 661.3 million pounds in 1997. Pacific hake (whiting) landings were 501.6 million pounds (up less than 1 percent) valued at \$19.9 million (down 27 percent) compared to 1997. Landings of rockfishes were 70.1 million pounds (down 40 percent) and valued at \$33.0 million (down 31 percent) compared to 1997. The 1998 rockfish landings were 32 percent lower than the 5-year average.

**Trend in Commercial Landings, 1989 - 1998
Alaska Pollock, Other Pacific Trawl Fish**



ANCHOVIES. U.S. landings of anchovies were 3.4 million pounds--a decrease of 9.3 million pounds (73 percent) compared with 1997. Twenty-seven percent of all landings were used for animal food or reduction and 73 percent were used for bait.

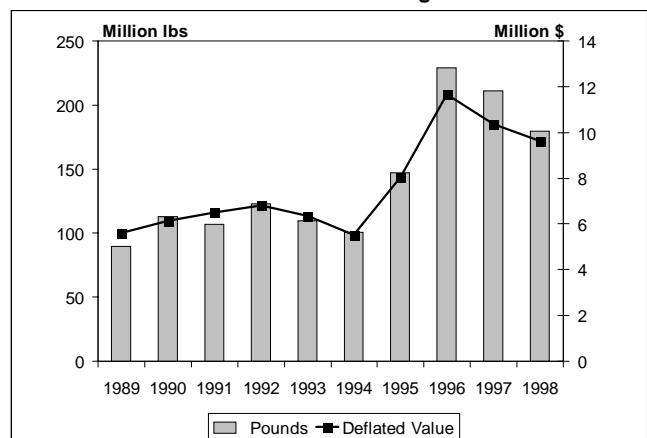
HALIBUT. U.S. landings of Atlantic and Pacific halibut were 73.3 million pounds (round weight) valued at \$104.0 million--an increase of 3.4 million pounds (5 percent), but a decrease of \$13.4 million (11 percent) compared with 1997. The Pacific fishery accounted for

all but 18,000 pounds of the 1998 total halibut catch. The average exvessel price per pound in 1998 was \$1.42 compared with \$1.68 in 1997.

HERRING, SEA. U.S. commercial landings of sea herring were 272.0 million pounds valued at \$21.6 million--a decrease of 75.9 million pounds (22 percent) and \$19.3 million (47 percent) compared with 1997. Landings of Atlantic sea herring were 179.7 million pounds valued at \$10.9 million--a decrease of 31.3 million pounds (15 percent) and \$687,000 (6 percent) compared with 1997.

Landings of Pacific sea herring were 92.3 million pounds valued at \$10.7 million--a decrease of 44.6 million pounds (33 percent) and \$18.6 million (63 percent) compared with 1997. Alaska landings accounted for 94 percent of the Pacific coast with 86.8 million pounds valued at \$9.8 million--a decrease of 28.7 million pounds (25 percent) and \$6.1 million (38 percent) compared with 1997.

**Trend in Commercial Landings, 1989-1998
Atlantic Sea Herring**



JACK MACKEREL. California accounted for 54 percent and Oregon for 44 percent of the U.S. landings of jack mackerel in 1998. Total landings were 3.4 million pounds valued at \$308,000--an increase of 888,000 pounds (35 percent), and \$27,000 (10 percent) compared with 1997. The 1998 average exvessel price per pound decreased to 9 cents.

REVIEW

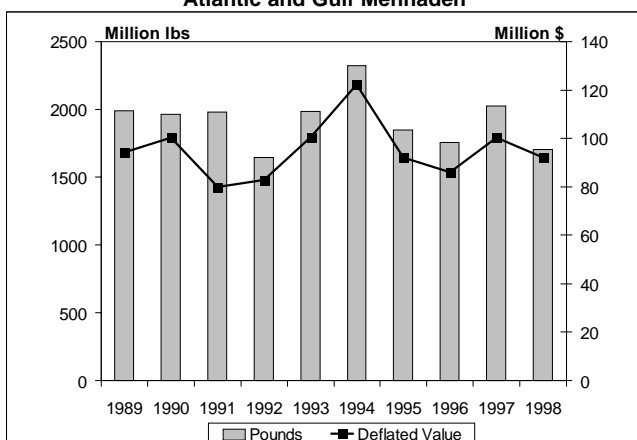
IMPORTANT SPECIES

MACKEREL, ATLANTIC. U.S. landings of Atlantic mackerel were 27.6 million pounds valued at \$4.7 million--a decrease of 64 million pounds (19 percent) and of \$4.8 million (51 percent) compared with 1997. New Jersey with 18.4 million pounds and Rhode Island with 5.8 million pounds accounted for 88 percent of the total landings. The average exvessel price per pound in 1998 was 17 cents, down from 28 cents in 1997.

MACKEREL, CHUB. Landings of Chub mackerel were 45.0 million pounds valued at \$2.5 million--an increase of 4.5 million pounds (11 percent), but a decrease of \$215,000 (8 percent) compared with 1997. The average exvessel price per pound was 6 cents, down from 7 cents in 1997.

MENHADEN. The U.S. menhaden landings were 1.7 billion pounds valued at \$103.8 million--a decrease of 322.1 million pounds (16 percent) and \$8.2 million (7 percent) compared with 1997. Landings decreased by 47.7 million pounds (7 percent) in the Atlantic states and decreased 274.4 million pounds (20 percent) in the Gulf states compared with 1997. Landings along the Atlantic coast were 609.0 million pounds valued at \$47.0 million. Gulf region landings were 1.1 billion pounds valued at \$56.9 million. Menhaden are used primarily for the production of meal, oil, and solubles. Small quantities are used for bait and animal food.

Trend in Commercial Landings, 1989-1998
Atlantic and Gulf Menhaden



NORTH ATLANTIC TRAWL FISH. Landings of butterfish, Atlantic cod, cusk, flounders (winter/

blackback, summer/fluke, yellowtail and other), haddock, red and white hake, ocean perch, pollock and whiting (silver hake) in the North Atlantic (combination of New England, Middle Atlantic, and Chesapeake Regions) were 160.9 million pounds valued at \$120.5 million--an increase of 44.9 million pounds (39 percent) and an increase of \$12.3 million (11 percent) compared with 1997. Of these species, flounder led in total value in the North Atlantic, accounting for 48 percent of the total; followed by cod, 21 percent; and whiting, 11 percent.

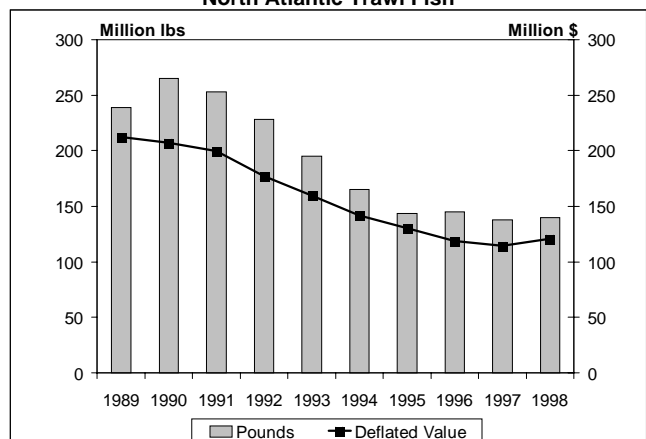
The 1998 landings of Atlantic cod were 24.5 million pounds valued at \$25.5 million--a decrease of 4.1 million pounds (14 percent), but an increase of \$1.0 million (4 percent) compared with 1997. The exvessel price per pound was \$1.04 cents in 1998, up from 85 cents per pound in 1997.

Landings of yellowtail flounder were 8.1 million pounds--an increase of 1.7 million pounds (28 percent) from 1997, and about 32 percent higher than its 5-year average.

Haddock landings increased to 6.3 million pounds (89 percent) and \$4.3 million (119 percent) compared to 1997.

North Atlantic pollock landings were 12.3 million pounds valued at \$8.1 million--an increase of 2.9 million pounds (31 percent) and \$2.8 million (51 percent) compared with 1997.

Trend in Commercial Landings, 1989-1998
North Atlantic Trawl Fish



REVIEW

IMPORTANT SPECIES

PACIFIC SALMON. U.S. commercial landings of salmon were 644.4 million pounds valued at \$257.5 million--an increase of 76.8 million pounds (14 percent), but a decrease of \$12.9 million (5 percent) compared with 1997. Alaska and Washington accounted for 97 percent and 2 percent of the total landings, respectively. Sockeye salmon landings were 128.7 million pounds valued at \$150.8 million--a decrease of 63.7 million pounds (33 percent), and \$26.5 million (15 percent) compared with 1997. Chinook salmon landings decreased to 16.2 million pounds--down 5.5 million pounds (25 percent) from 1997. Pink salmon landings were 332.6 million pounds--an increase of 105.6 million (47 percent); chum salmon landings were 130.9 million--an increase of 27.8 million (27 percent); and coho salmon increased to 35.9 million--an increase of 12.7 million pounds (54 percent) compared with 1997.

Alaska landings were 626.1 million pounds valued at \$242.7 million--an increase of 88.2 million pounds (16 percent), but a decrease of \$5.1 million (2 percent) compared with 1997. The distribution of Alaska salmon landings by species in 1998 was: sockeye, 125.5 million pounds (20 percent); pink, 332.6 million pounds (53 percent); chum, 123.8 million pounds (20 percent); coho, 34.4 million pounds (5 percent); and chinook, 9.8 million pounds (2 percent). The exvessel price per pound for all species in Alaska was 39 cents in 1998-- a decrease of 8 cents from 1997.

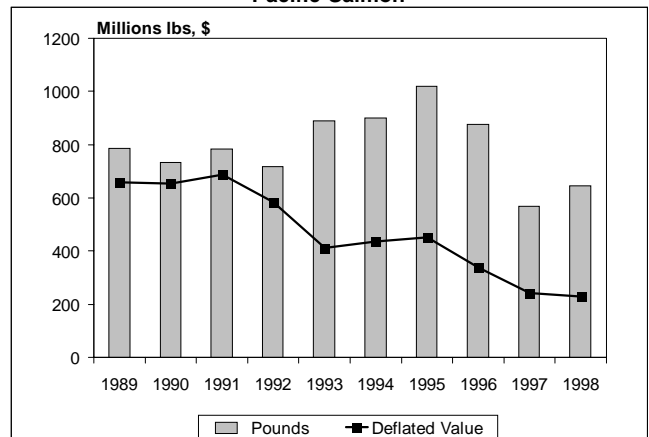
Washington salmon landings were 13.9 million pounds valued at \$9.1 million--a decrease of 6.8 million pounds (33 percent), and \$3.2 million (26 percent) compared with 1997. The biennial fishery for pink salmon went from 7.1 million pounds in 1997 to 3,000 pounds in 1998. Washington landings of sockeye salmon were 3.2 million pounds (down 53 percent); followed by chum salmon, 7.2 million pounds--an increase of 3.0 million pounds (up 70 percent); silver, 1.5 million pounds (up 85 percent); and chinook, 2.0 million pounds (up 16 percent) compared with 1997. The average exvessel price per pound for all species in Washington increased from 59 cents in 1997 to 66 cents in 1998.

Oregon salmon landings were 1.8 million pounds valued at \$2.5 million--a decrease of 457,000

pounds (20 percent) and \$303,000 (11 percent) compared with 1997. Only chinook salmon were landed in 1998; chum, pink, and silver salmon landings were not reported. The average exvessel price per pound for chinook salmon in Oregon increased from \$1.24 in 1997 to \$1.39 in 1998.

California salmon landings were 2.1 million pounds valued at \$3.0 million -- a decrease of 4.0 million pounds (65 percent) and \$4.3 million (59 percent) compared with 1997. Landings of chinook salmon were 2.1 million pounds; coho landings were 1,000 pounds. The average exvessel price per pound paid to fishermen in 1998 was \$1.44 compared with \$1.20 in 1997.

**Trend in Commercial Landings, 1989-1998
Pacific Salmon**



SABLEFISH. U.S. commercial landings of sablefish were 43.5 million pounds valued at \$91.8 million--a decrease of 9.4 million pounds (18 percent) and a decrease of \$17.0 million (16 percent) compared with 1997. Landings decreased in Alaska to 33.5 million pounds, a decrease of 5 percent compared with 1997. Landings decreased in Washington to 2.9 million pounds (42 percent) and \$3.9 million (down 60 percent). The 1998 Oregon catch was 3.9 million pounds (down 40 percent) and \$4.6 million (down 56 percent) compared with 1997. California landings of 3.2 million pounds and \$3.3 million represent a 50 percent decrease in quantity and a 63 percent decrease in value from 1997. The average exvessel price per pound in 1998 was \$2.11 compared with \$2.06 in 1997.

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 479.4 million pounds valued at \$257.2 million--an increase of 22.8 million pounds (5 percent), but a decrease of \$37.1 million (13 percent) compared with 1997. The average exvessel price per pound of all species of tuna in 1998 was 54 cents compared with 64 cents in 1997.

Bigeye landings in 1998 were 17.6 million pounds--an increase of 2.9 million pounds (20 percent) compared with 1997. The average exvessel price per pound was \$1.64 in 1998 compared with \$1.69 in 1997.

Skipjack landings were 272.6 million pounds--an increase of 25.4 million pounds (10 percent) compared with 1997. The average exvessel price per pound was 38 cents in 1998, compared to 45 cents in 1997.

Yellowfin landings were 136.5 million pounds--a decrease of 5.1 million pounds (4 percent) compared with 1997. The average exvessel price per pound was 57 cents in 1998 compared with 72 cents in 1997.

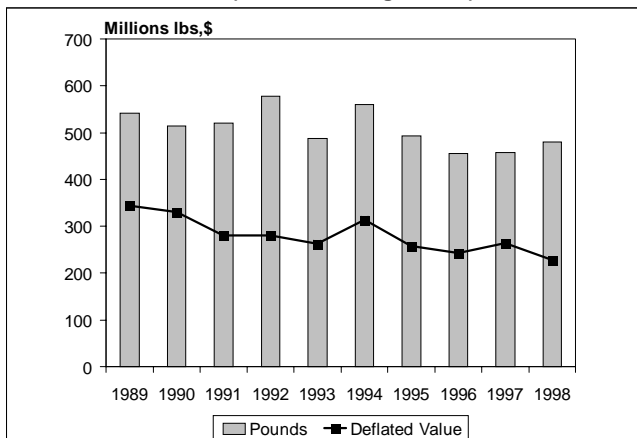
Bluefin landings were 6.7 million pounds--a decrease of 605,000 pounds (8 percent) compared with 1998. The average exvessel price per pound in 1998 was \$2.32 compared with \$2.78 in 1997.

6.2 million pounds (5 percent), but an increase of \$5.6 million (4 percent) in value compared with 1997. The average exvessel price per pound in 1998 was \$1.25 compared with \$1.14 in 1997.

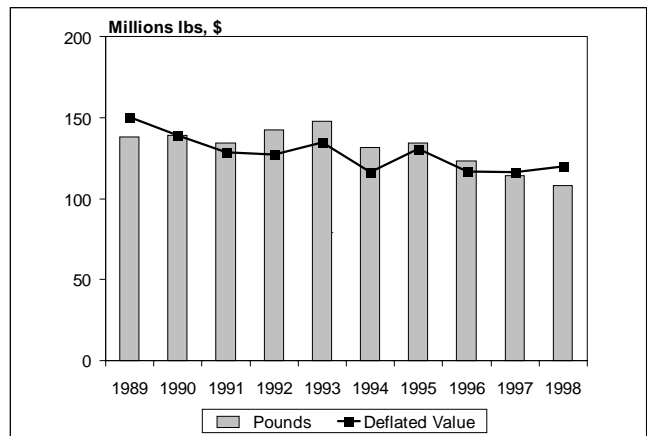
Surf clams yielded 54.0 million pounds of meats valued at \$29.2 million--a decrease of 3.9 million pounds (7 percent) and \$6.0 million (17 percent) compared with 1997. New Jersey was the leading state with 44.8 million pounds (down 2 percent), followed by New York, 3.9 million pounds (down 44 percent) and Maryland, 3.8 million pounds (down 4 percent) compared with 1997. The average exvessel price per pound of meats was 54 cents in 1998, down 7 cents from 1997.

The ocean quahog fishery produced 39.9 million pounds of meats valued at \$18.4 million--a decrease of 4.0 million pounds (9 percent) and \$1.6 million (8 percent) compared with 1997. New Jersey had landings of 15.7 million pounds (down 14 percent) valued at \$6.7 million (down 12 percent) while Massachusetts production was 19.2 million pounds (down 6 percent) valued at \$8.0 million (down 6 percent). Together, they accounted for 88 percent of the total ocean quahog production in 1998. The average exvessel price per pound of meats increased from 45 cents in 1997 to 46 cents in 1998.

**Trend in Commercial Landings, 1989-1998
Tuna (U.S. and Foreign Ports)**



**Trend in Commercial Landings, 1989-1998
Clams**



CLAMS. Landings of all species yielded 108.0 million pounds of meats valued at \$135.2 million--a decrease of

The hard clam fishery produced 7.2 million pounds of meats valued at \$41.8 million--a decrease of 514,000 pounds (7 percent) and \$90,000 (less than 1 percent) compared with 1997. Landings in the New

REVIEW

IMPORTANT SPECIES

England region were 2.5 million pounds of meats (up 67 percent); Middle Atlantic, 3.2 million pounds (down 30 percent); Chesapeake, 543,000 pounds (down 21 percent); and the South Atlantic region, 1.0 million pounds (up 4 percent). The average exvessel price per pound of meats increased from \$5.43 in 1997 to \$5.81 in 1998.

Soft clams yielded 2.8 million pounds of meats valued at \$12.2 million--an increase of 516,000 pounds (22 percent) and \$2.3 million (23 percent) compared with 1997. Maine was the leading state with 2.4 million pounds of meats (up 34 percent), followed by Maryland, 219,000 pounds (down 4 percent) and New York with 208,000 pounds (down 23 percent). The average exvessel price per pound of meats was \$4.35 in 1998, compared with \$4.32 in 1997.

CRABS. Landings of all species of crabs were 552.7 million pounds valued at \$473.4 million--an increase of 122.8 million pounds (29 percent) and \$43.8 million (10 percent) compared with 1997.

Hard blue crab landings were 217.9 million pounds valued at \$149.1 million--a decrease of 12.9 million pounds (6 percent) and \$9.0 million (6 percent) compared with 1997. North Carolina landed 29 percent of the total; Louisiana, 20 percent; Virginia, 15 percent; and Maryland landed 14 percent of the total U.S. landings. Hard blue crab landings in the Chesapeake region were 61.7 million pounds--a decrease of 26 percent; the South Atlantic, with 79.6 million pounds increased 6 percent; and the Gulf region with 65.6 million pounds increased 7 percent. The Middle Atlantic region with 11.0 million pounds valued at \$9.1 million had an increase of 392,000 pounds (4 percent) compared with 1997. The average exvessel price per pound of hard blue crabs was 68 cents in 1998, one cent less than in 1997.

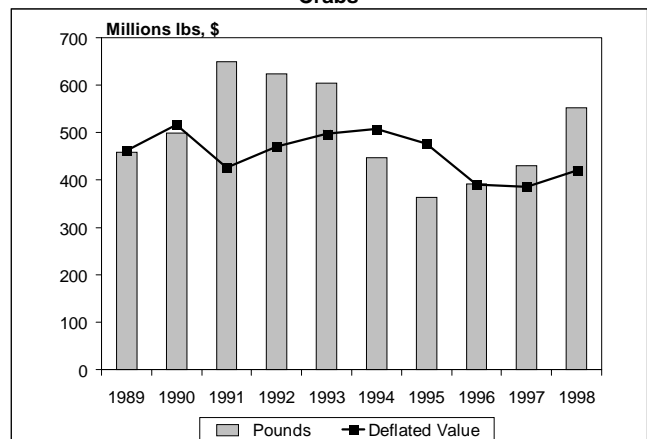
Dungeness crab landings were 34.2 million pounds valued at \$61.8 million--a decrease of 4.0 million pounds (10 percent) and \$13.8 million (18 percent) compared with 1997. Washington landings of 13.2 million pounds (down 16 percent) led all states with 39 percent of the total landings. California landings were 10.6 million pounds (up 7 percent) or 31 percent of the

total landings. Oregon landings were 7.4 million pounds (down 4 percent) and Alaska landings were 3.0 million pounds (down 39 percent) compared with 1997. The average exvessel price per pound was \$1.81 in 1998 compared with \$1.98 in 1997.

U.S. landings of king crab were 24.1 million pounds valued at \$57.4 million--an increase of 6.1 million pounds (34 percent) and \$6.8 million (13 percent) compared with 1997. The average exvessel price per pound in 1998 was \$2.38 compared with \$2.81 in 1997.

Snow (tanner) crab landings were 251.8 million pounds valued at \$145.0 million--an increase of 132.9 million pounds (112 percent) and \$49.3 million (51 percent) compared with 1997. The average exvessel price per pound was 58 cents in 1998, down from 80 cents in 1997.

Trend in Commercial Landings, 1989-1998
Crabs



LOBSTER, AMERICAN. American lobster landings were 79.6 million pounds valued at \$253.6 million--a decrease of 4.3 million pounds (5 percent) and \$13.6 million (5 percent) compared with 1997. Maine led in landings for the seventeenth consecutive year with 46.9 million pounds valued at \$136.6 million--an increase of 95,000 pounds (less than 1 percent) compared with 1997. Massachusetts, the second leading producer, had landings of 13.3 million pounds valued at \$48.6 million--a decrease of 1.6 million pounds (11 percent) compared with 1997. Together, Maine and Massachu-

REVIEW

IMPORTANT SPECIES

setts produced 75 percent of the total national landings. The average exvessel price per pound was \$3.18 in 1998, the same price as in 1997.

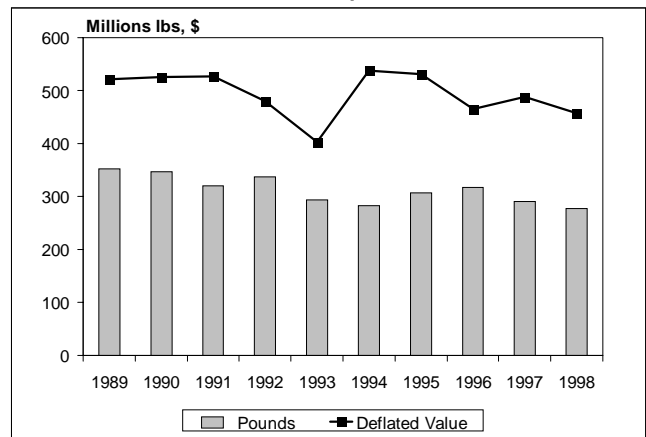
LOBSTERS, SPINY. U.S. landings of spiny lobster were 5.9 million pounds valued at \$24.4 million--a decrease of 1.3 million pounds (18 percent) and \$9.0 million (27 percent) compared with 1997. Florida, with landings of 5.2 million pounds valued at \$19.5 million, accounted for 87 percent of the total catch and 80 percent of the value. This was a decrease of 973,000 pounds (16 percent), and \$6.0 million (23 percent) compared with 1997. Overall the average exvessel price per pound was \$4.11 in 1998 compared with \$4.61 in 1997.

OYSTERS. U.S. oyster landings yielded 33.5 million pounds of meats valued at \$88.6 million -- a decrease of 3.6 million pounds (10 percent) and \$3.6 million (4 percent) compared with 1997. The Gulf region led in production with 19.9 million pounds of meats, 59 percent of the national total; followed by the Pacific (principally Washington, with 83 percent of the region's total volume) with 7.9 million pounds (24 percent); and the Chesapeake region with 2.7 million pounds (8 percent). The average exvessel price per pound of meats was \$2.64 in 1998 compared with \$2.46 in 1997.

SHRIMP. U.S. landings of shrimp were 277.8 million pounds valued at \$515.6 million--a decrease of 12.5 million pounds (4 percent) and \$28.4 million (5percent) in value compared with 1997. Shrimp landings decreased in the South Atlantic (down 7 percent) and New England (down 42 percent), but increased 12 percent in the Gulf. The landings in the Pacific decreased 65 percent when compared with 1997. The average exvessel price per pound of shrimp decreased to \$1.86 in 1998 compared with \$1.87 in 1997. Gulf region landings were the nation's largest with 230.0 million pounds and 83 percent of the national total. Louisiana led all Gulf states with 96.2 million pounds (up 3 percent); followed by Texas, 72.4 million pounds (up 2 percent); Florida (West Coast), 25.2 million pounds (up 28 percent); Alabama, 20.1 million pounds (up 73 percent); and Mississippi, 16.1 million pounds (up 65

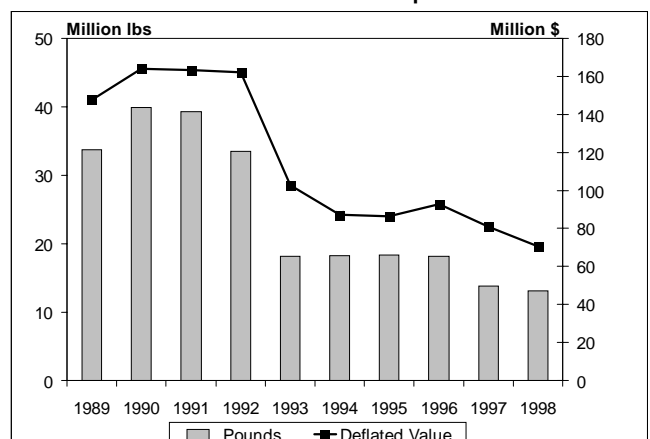
percent). In the Pacific region, Oregon had landings of 6.2 million pounds (down 68 percent); California had 3.2 million pounds (down 79 percent); and Washington had landings of 3.1 million pounds (down 50 percent) compared with 1997.

Trend in Commercial Landings, 1989-1998
Shrimp



SCALLOPS. U.S. landings of bay and sea scallops totaled 13.2 million pounds of meats valued at \$80.0 million -- a decrease of 695,000 pounds (5 percent) and \$10.6 million (12 percent) compared with 1997. The average exvessel price per pound of meats decreased from \$6.54 in 1997 to \$6.07 in 1998.

Trend in Commercial Landings, 1989-1998
Atlantic Sea Scallops



REVIEW

IMPORTANT SPECIES

Bay scallop landings were 105,000 pounds of meats valued at \$368,000--an increase of 33,000 pounds (46 percent) and \$58,000 (19 percent) compared with 1997. The average exvessel price per pound of meats was \$3.50 in 1998 compared with \$4.31 in 1997.

Commercial landings of calico scallops in Florida cannot be reported due to federal data confidentiality restrictions.

Sea scallop landings were 13.1 million pounds of meats valued at \$79.6 million--a decrease of 728,000 pounds (5 percent) and \$10.7 million (12 percent) compared with 1997. Massachusetts and Virginia were the leading states in landings of sea scallops with 5.8 and 3.5 million pounds of meats, respectively; representing 71 percent of the national total. The

average exvessel price per pound of meats in 1998 was \$6.09 compared with \$6.55 in 1997.

SQUID. U.S. commercial landings of squid were 99.5 million pounds valued at \$43.5 million--a decrease of 124.3 million pounds (56 percent) and \$12.0 million (22 percent) compared with 1997. New Jersey was the leading state with 40.6 million pounds (41 percent) of the national total and was followed by Rhode Island with 38.6 million pounds (39 percent) of the national total. The Middle Atlantic region landings were 48.9 million pounds (up 47 percent); followed by New England, 40.4 million (up 27 percent); Pacific, 7.4 pounds (down 95 percent); and the South Atlantic region with 927,000 pounds (up 10 percent) compared with 1997. The average exvessel price per pound for squid was 44 cents in 1998 compared with 25 cents in 1997.

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY SPECIES, 1997 AND 1998 (1)

| Species | 1997 | | | 1998 | | | Average (1993-97) |
|-------------------------|--------------------|----------------|---------------------|--------------------|----------------|---------------------|----------------------|
| | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds |
| Fish | | | | | | | |
| Alewives | 1,160 | 526 | 193 | 1,309 | 594 | 292 | 1,168 |
| Anchovies | 12,738 | 5,778 | 827 | 3,429 | 1,555 | 242 | 9,516 |
| Atka mackerel | 131,258 | 59,538 | 6,999 | 113,712 | 51,579 | 5,686 | 153,318 |
| Bluefish | 9,307 | 4,222 | 2,849 | 8,299 | 3,764 | 2,765 | 9,488 |
| Blue runner | 352 | 160 | 198 | 609 | 276 | 340 | 963 |
| Bonito | 993 | 450 | 405 | 2,596 | 1,178 | 917 | 1,496 |
| Butterfish | 7,544 | 3,422 | 5,112 | 5,684 | 2,578 | 2,848 | 8,869 |
| Catfish and bullheads | 15,150 | 6,872 | 9,615 | 11,590 | 5,257 | 5,251 | 11,893 |
| Chubs | 3,070 | 1,393 | 1,551 | 4,596 | 2,085 | 1,883 | 3,947 |
| Cod: | | | | | | | |
| Atlantic | 28,619 | 12,981 | 24,464 | 24,514 | 11,119 | 25,474 | 35,766 |
| Pacific | 661,314 | 299,970 | 142,429 | 555,993 | 252,197 | 87,717 | 560,223 |
| Crevalle (jack) | 593 | 269 | 378 | 875 | 397 | 487 | 243 |
| Croaker: | | | | | | | |
| Atlantic | 27,413 | 12,434 | 8,834 | 25,401 | 11,522 | 9,619 | 16,511 |
| Pacific (white) | 368 | 167 | 224 | 141 | 64 | 100 | 515 |
| Cusk | 977 | 443 | 563 | 780 | 354 | 512 | 1,849 |
| Dolphinfish | 1,970 | 894 | 2,640 | 922 | 418 | 1,375 | 1,775 |
| Eels, American | 1,069 | 485 | 6,592 | 1,015 | 460 | 3,971 | 1,084 |
| Flounders: | | | | | | | |
| Arrowtooth | 13,934 | 6,320 | 831 | 18,181 | 8,247 | 906 | 17,636 |
| Winter (blackback) | 12,710 | 5,765 | 16,167 | 11,244 | 5,100 | 15,110 | 10,721 |
| Plaice, American | 8,680 | 3,937 | 11,405 | 8,073 | 3,662 | 10,298 | 10,501 |
| Summer (flake) | 8,784 | 3,984 | 16,331 | 11,211 | 5,085 | 20,384 | 16,070 |
| Sole: | | | | | | | |
| Dover | 27,210 | 12,342 | 7,255 | 22,029 | 9,992 | 6,576 | -- |
| Flathead | 28,367 | 12,867 | 2,773 | 41,637 | 18,886 | 801 | 19,414 |
| Witch (gray) | 3,913 | 1,775 | 6,570 | 4,089 | 1,855 | 6,539 | 5,012 |
| Petrale | 4,270 | 1,937 | 3,852 | 3,228 | 1,464 | 3,044 | -- |
| Rock | 72,205 | 32,752 | 10,354 | 33,508 | 15,199 | 710 | 78,098 |
| Yellowfin | 329,150 | 149,301 | 25,694 | 177,471 | 80,500 | 3,553 | 247,307 |
| Yellowtail | 6,313 | 2,864 | 9,477 | 8,060 | 3,656 | 10,940 | 6,106 |
| Atlantic/Gulf, Other | 4,969 | 2,254 | 9,196 | 5,864 | 2,660 | 9,532 | 15,035 |
| Pacific, Other | 45,848 | 20,797 | 10,864 | 46,583 | 21,130 | 8,409 | 74,563 |
| Total, flounders | 566,353 | 256,896 | 130,769 | 391,178 | 177,437 | 96,804 | 495,057 |
| Goosefish (anglerfish) | 60,640 | 27,506 | 34,591 | 58,105 | 26,356 | 33,553 | 50,597 |
| Groupers | 10,276 | 4,661 | 23,665 | 9,841 | 4,464 | 20,853 | 11,431 |
| Haddock | 3,316 | 1,504 | 3,595 | 6,252 | 2,836 | 7,880 | 1,622 |
| Hake: | | | | | | | |
| Pacific (whiting) | 499,598 | 226,616 | 27,344 | 501,554 | 227,503 | 19,931 | 437,564 |
| Red | 2,929 | 1,329 | 790 | 2,961 | 1,343 | 769 | 3,248 |
| Silver (Atl. whiting) | 34,248 | 15,535 | 15,024 | 32,990 | 14,964 | 13,369 | 34,910 |
| White | 4,897 | 2,221 | 3,229 | 5,256 | 2,384 | 3,788 | 9,737 |
| Halibut | 69,864 | 31,690 | 117,362 | 73,260 | 33,231 | 103,974 | 56,941 |
| Herring: | | | | | | | |
| Sea: | | | | | | | |
| Atlantic | 211,010 | 95,714 | 11,543 | 179,721 | 81,521 | 10,856 | 153,191 |
| Pacific | 136,861 | 62,080 | 29,341 | 92,296 | 41,865 | 10,722 | 118,837 |
| Thread | 16,641 | 7,548 | 1,007 | 5,678 | 2,576 | 658 | 11,062 |
| Jack mackerel | 2,557 | 1,160 | 281 | 3,445 | 1,563 | 308 | 4,360 |
| Lingcod | 4,164 | 1,889 | 2,021 | 1,454 | 660 | 927 | 4,547 |
| Mackerel: | | | | | | | |
| Atlantic | 33,940 | 15,395 | 9,527 | 27,588 | 12,514 | 4,704 | 23,521 |
| Chub | 40,558 | 18,397 | 2,762 | 45,025 | 20,423 | 2,547 | 25,545 |
| King and cero | 5,544 | 2,515 | 7,606 | 5,204 | 2,361 | 6,797 | 4,896 |
| Spanish | 3,738 | 1,696 | 1,933 | 3,216 | 1,459 | 1,807 | 4,644 |

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY SPECIES, 1997 AND 1998 (1) - Continued

| Species | 1997 | | | 1998 | | | Average (1993-97) |
|---------------------------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> |
| <u>Fish - Continued:</u> | | | | | | | |
| Menhaden: | | | | | | | |
| Atlantic | 656,666 | 297,862 | 40,009 | 608,974 | 276,229 | 46,979 | 706,605 |
| Gulf | 1,371,136 | 621,943 | 72,041 | 1,096,703 | 497,461 | 56,857 | 1,280,812 |
| Total, menhaden | 2,027,802 | 919,805 | 112,050 | 1,705,677 | 773,690 | 103,836 | 1,987,418 |
| Mullets | 19,637 | 8,907 | 13,419 | 17,921 | 8,129 | 9,420 | 24,205 |
| Ocean perch: | | | | | | | |
| Atlantic | 553 | 251 | 346 | 706 | 320 | 419 | 993 |
| Pacific | 43,166 | 19,580 | 3,186 | 40,663 | 18,445 | 4,072 | 40,056 |
| Pollock: | | | | | | | |
| Atlantic | 9,372 | 4,251 | 5,349 | 12,307 | 5,582 | 8,101 | 8,758 |
| Walleye (Alaska) | 2,512,455 | 1,139,642 | 242,589 | 2,716,458 | 1,232,177 | 190,152 | 2,874,145 |
| Rockfishes: | | | | | | | |
| Bocaccio | 1,596 | 724 | 610 | 1,314 | 596 | 518 | -- |
| Canary | 2,782 | 1,262 | 1,369 | 2,894 | 1,313 | 1,469 | -- |
| Chilipepper | 4,079 | 1,850 | 1,626 | 2,807 | 1,273 | 1,187 | -- |
| Widow | 17,088 | 7,751 | 5,235 | 10,796 | 4,897 | 3,850 | -- |
| Yellowtail | 6,051 | 2,745 | 2,227 | 7,940 | 3,602 | 3,006 | -- |
| Other | 85,392 | 38,734 | 36,832 | 44,307 | 20,098 | 23,011 | -- |
| Total, rockfishes | 116,988 | 53,065 | 47,899 | 70,058 | 31,778 | 33,041 | 102,847 |
| Sablefish | 52,925 | 24,007 | 108,776 | 43,500 | 19,731 | 91,823 | 65,517 |
| Salmon, Pacific: | | | | | | | |
| Chinook or king | 21,772 | 9,876 | 27,680 | 16,229 | 7,361 | 18,998 | 20,908 |
| Chum or keta | 103,163 | 46,794 | 22,775 | 130,939 | 59,394 | 22,662 | 155,386 |
| Pink | 226,995 | 102,964 | 26,470 | 332,577 | 150,856 | 45,580 | 337,962 |
| Red or sockeye | 192,460 | 87,299 | 177,284 | 128,742 | 58,397 | 150,835 | 312,067 |
| Silver or coho | 23,268 | 10,554 | 16,161 | 35,947 | 16,305 | 19,381 | 47,946 |
| Total, salmon | 567,658 | 257,488 | 270,370 | 644,434 | 292,313 | 257,456 | 874,269 |
| Sardines: | | | | | | | |
| Pacific | 94,393 | 42,816 | 4,071 | 93,875 | 42,581 | 3,613 | 57,707 |
| Spanish | 1,128 | 512 | 279 | 1,079 | 489 | 251 | 1,446 |
| Scup or porgy | 5,718 | 2,594 | 7,449 | 4,913 | 2,229 | 6,882 | 8,086 |
| Sea bass: | | | | | | | |
| Black (Atlantic) | 3,506 | 1,590 | 4,927 | 3,377 | 1,532 | 5,342 | 3,715 |
| White (Pacific) | 62 | 28 | 127 | 157 | 71 | 295 | 82 |
| Sea trout or weakfish: | | | | | | | |
| Gray | 7,314 | 3,318 | 4,136 | 8,423 | 3,821 | 4,060 | 6,892 |
| Spotted | 943 | 428 | 1,091 | 585 | 265 | 841 | 1,710 |
| Sand (white) | 161 | 73 | 91 | 123 | 56 | 80 | 251 |
| Shad: | | | | | | | |
| American | 3,058 | 1,387 | 1,272 | 4,375 | 1,984 | 1,715 | 3,119 |
| Hickory | 165 | 75 | 43 | 104 | 47 | 14 | 119 |
| Sharks: | | | | | | | |
| Dogfish | 46,345 | 21,022 | 7,307 | 49,111 | 22,277 | 8,139 | 52,335 |
| Other | 14,934 | 6,774 | 8,536 | 15,453 | 7,009 | 6,644 | 15,273 |
| Sheepshead (Atlantic) | 3,843 | 1,743 | 1,336 | 3,010 | 1,365 | 1,080 | 4,139 |
| Skates | 27,845 | 12,630 | 4,209 | 33,669 | 15,272 | 4,578 | 22,983 |
| Smelts | 3,076 | 1,395 | 1,075 | 1,817 | 824 | 643 | 3,017 |
| Snapper: | | | | | | | |
| Red | 5,161 | 2,341 | 10,365 | 4,257 | 1,931 | 9,899 | 4,104 |
| Vermilion | 1,630 | 739 | 3,245 | 1,059 | 480 | 2,280 | 1,630 |
| Unclassified | 3,840 | 1,742 | 7,884 | 3,614 | 1,639 | 7,021 | 6,247 |

See notes at end of table.

(Continued)

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY SPECIES, 1997 AND 1998 (1) - Continued

| Species | 1997 | | | 1998 | | | Average (1993-97) |
|---------------------------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> |
| <u>Fish - Continued:</u> | | | | | | | |
| Spearfish | 220 | 100 | 130 | 296 | 134 | 174 | 226 |
| Spot | 6,775 | 3,073 | 2,738 | 7,404 | 3,358 | 2,934 | 7,272 |
| Striped bass | 6,176 | 2,801 | 8,970 | 6,715 | 3,046 | 9,699 | 3,569 |
| Swordfish | 13,586 | 6,163 | 33,786 | 15,093 | 6,846 | 28,888 | 15,344 |
| Tenpounder (ladyfish) | 1,602 | 727 | 505 | 2,151 | 976 | 1,178 | -- |
| Tilefish | 4,230 | 1,919 | 5,829 | 3,801 | 1,724 | 6,011 | 3,893 |
| Trout, rainbow | 303 | 137 | 242 | 789 | 358 | 497 | 401 |
| Tuna: | | | | | | | |
| Albacore | 28,824 | 13,074 | 24,684 | 33,429 | 15,163 | 22,224 | 24,069 |
| Bigeye | 6,985 | 3,168 | 21,231 | 8,779 | 3,982 | 24,816 | 6,540 |
| Bluefin | 7,265 | 3,295 | 20,207 | 6,660 | 3,021 | 15,448 | 6,151 |
| Little (tunny) | 994 | 451 | 359 | 661 | 300 | 161 | 532 |
| Skipjack | 15,874 | 7,200 | 8,688 | 13,918 | 6,313 | 6,616 | 13,194 |
| Yellowfin | 22,524 | 10,217 | 34,224 | 20,832 | 9,449 | 24,791 | 20,764 |
| Unclassified | 389 | 176 | 401 | 720 | 327 | 406 | 618 |
| Total, tuna | 82,855 | 37,583 | 109,794 | 84,999 | 38,555 | 94,462 | 71,869 |
| Whitefish, lake | 12,880 | 5,842 | 9,702 | 12,519 | 5,679 | 9,418 | 11,771 |
| Wolffish, Atlantic | 682 | 309 | 265 | 652 | 296 | 321 | 935 |
| Yellow perch | 1,371 | 622 | 2,851 | 1,227 | 557 | 2,637 | 2,371 |
| Other marine finfishes | 66,854 | 30,325 | 34,768 | 52,313 | 23,729 | 35,388 | 101,750 |
| Other freshwater finfishes | 15,045 | 6,824 | 4,875 | 12,847 | 5,827 | 3,914 | 16,409 |
| Total, fish | 8,397,286 | 3,808,984 | 1,722,145 | 7,888,020 | 3,577,982 | 1,446,942 | -- |
| <u>Shellfish</u> | | | | | | | |
| Abalone | 45 | 20 | 1,056 | - | - | - | 75 |
| Clams: | | | | | | | |
| Quahog (hard) | 7,708 | 3,496 | 41,865 | 7,194 | 3,263 | 41,775 | 12,800 |
| Geoduck (Pacific) | 1,081 | 490 | 14,161 | 1,445 | 655 | 16,025 | -- |
| Manila | 201 | 91 | 1,248 | 1,174 | 533 | 8,650 | -- |
| Ocean quahog | 43,940 | 19,931 | 19,929 | 39,898 | 18,098 | 18,358 | 47,512 |
| Softshell | 2,299 | 1,043 | 9,929 | 2,815 | 1,277 | 12,235 | 2,834 |
| Surf (Atlantic) | 57,977 | 26,298 | 35,185 | 54,032 | 24,509 | 29,202 | 65,184 |
| Other | 978 | 444 | 7,369 | 1,401 | 635 | 8,992 | 1,577 |
| Total, clams | 114,184 | 51,794 | 129,686 | 107,959 | 48,970 | 135,237 | 131,965 |
| Conch (snails) | 2,258 | 1,024 | 2,854 | 1,872 | 849 | 2,448 | 4,393 |
| Crabs: | | | | | | | |
| Blue: Hard | 230,830 | 104,704 | 158,188 | 217,916 | 98,846 | 149,141 | 221,930 |
| Soft and peeler | 4,021 | 1,824 | 12,534 | 6,693 | 3,036 | 34,316 | 3,086 |
| Dungeness | 38,202 | 17,328 | 75,682 | 34,213 | 15,519 | 61,894 | 50,496 |
| Jonah | 1,643 | 745 | 806 | 2,768 | 1,256 | 1,359 | 1,601 |
| King | 18,028 | 8,177 | 50,576 | 24,122 | 10,942 | 57,366 | 18,079 |
| Snow (tanner): | | | | | | | |
| Opilio | 117,090 | 53,112 | 92,380 | 249,146 | 113,012 | 139,771 | 126,538 |
| Bairdi | 1,808 | 820 | 3,317 | 2,685 | 1,218 | 5,207 | 10,010 |
| Other | 18,341 | 8,319 | 36,064 | 15,173 | 6,882 | 24,324 | 15,587 |
| Total, crabs | 429,963 | 195,030 | 429,547 | 552,716 | 250,710 | 473,378 | 447,356 |

See notes at end of table.

Continued)

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY SPECIES, 1997 AND 1998 (1) - Continued

| Species | 1997 | | | 1998 | | | Average (1993-97) |
|------------------------------|--------------------|------------------|---------------------|--------------------|------------------|---------------------|----------------------|
| | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds |
| Shellfish - Continued | | | | | | | |
| Crawfish (freshwater) | 23,140 | 10,496 | 12,997 | 22,226 | 10,082 | 14,637 | 24,909 |
| Horseshoe crab | 5,748 | 2,607 | 1,197 | 7,170 | 3,252 | 2,159 | 2,899 |
| Lobsters: | | | | | | | |
| American | 83,921 | 38,066 | 267,216 | 79,642 | 36,125 | 253,636 | 68,979 |
| Spiny | 7,240 | 3,284 | 33,381 | 5,935 | 2,692 | 24,380 | 7,370 |
| Mussels, blue (sea) | 4,532 | 2,056 | 2,288 | 2,913 | 1,321 | 1,604 | 5,995 |
| Oysters | 37,115 | 16,835 | 92,243 | 33,538 | 15,213 | 88,627 | 37,940 |
| Scallops: | | | | | | | |
| Bay | 72 | 33 | 310 | 105 | 48 | 368 | 192 |
| Calico, Atlantic | 1,613 | 732 | 3,601 | (3) | (3) | (3) | 3,881 |
| Sea | 13,789 | 6,255 | 90,291 | 13,061 | 5,924 | 79,606 | 17,322 |
| Shrimp: | | | | | | | |
| New England | 14,010 | 6,355 | 11,477 | 8,132 | 3,689 | 7,697 | 12,502 |
| South Atlantic | 25,638 | 11,629 | 68,655 | 23,972 | 10,874 | 61,341 | 32,071 |
| Gulf | 205,517 | 93,222 | 436,929 | 229,962 | 104,310 | 429,169 | 211,304 |
| Pacific | 45,054 | 20,436 | 26,817 | 15,545 | 7,051 | 16,773 | 41,906 |
| Other | 36 | 16 | 178 | 146 | 66 | 636 | 45 |
| Total, shrimp | 290,255 | 131,659 | 544,056 | 277,757 | 125,990 | 515,616 | 297,828 |
| Squid: | | | | | | | |
| Atlantic: | | | | | | | |
| Illex | 30,054 | 13,632 | 6,440 | 50,082 | 22,717 | 9,463 | 36,023 |
| Loligo | 35,630 | 16,162 | 26,476 | 41,620 | 18,879 | 32,141 | 40,688 |
| Unclassified | 493 | 224 | 427 | 1,543 | 700 | 277 | 106,315 |
| Pacific: | | | | | | | |
| Loligo | 156,348 | 70,919 | 22,056 | 5,973 | 2,709 | 1,520 | -- |
| Unclassified | 1,258 | 571 | 82 | 235 | 107 | 71 | -- |
| Total, Squid | 223,783 | 101,507 | 55,481 | 99,453 | 45,112 | 43,472 | 184,297 |
| Other shellfish | 7,312 | 3,317 | 11,378 | 14,268 | 6,472 | 13,686 | -- |
| Total, Shellfish | 1,244,970 | 564,715 | 1,677,582 | 1,218,615 | 552,760 | 1,648,854 | -- |
| Other | | | | | | | |
| Sea urchins | 44,568 | 20,216 | 39,330 | 30,042 | 13,627 | 27,319 | 56,727 |
| Seaweed, unclassified | 155,274 | 70,432 | 2,443 | 56,318 | 25,546 | 982 | -- |
| Kelp (w/herring eggs) | 657 | 298 | 3,596 | 315 | 143 | 1,017 | 555 |
| Worms | 492 | 223 | 2,507 | 660 | 299 | 3,355 | -- |
| Total, other | 200,991 | 91,169 | 47,876 | 87,335 | 39,615 | 32,673 | -- |
| Grand Total, U.S. | 9,843,247 | 4,464,868 | 3,447,603 | 9,193,970 | 4,170,357 | 3,128,469 | --- |

(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 are not available.

(3) Data are confidential and included with unclassified shellfish.

Note:--Metric tons are arrived at by dividing the landings of individual species and group totals by 2.2046. Totals may not add due to rounding. 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 EEZ (joint ventures). Data do not include aquaculture products except oysters and clams.

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY REGION AND BY STATE, 1997 AND 1998 (1)

| Regions and States | 1997 | | 1998 | | Record Landings | |
|-----------------------------|--------------------|---------------------|--------------------|---------------------|-----------------|--------------------|
| | Thousand pounds | Thousand dollars | Thousand pounds | Thousand dollars | Year | Thousand pounds |
| New England: | 640,621 | 555,913 | 595,611 | 537,442 | - | - |
| Maine | 244,059 | 223,244 | 183,905 | 216,431 | 1950 | 356,266 |
| New Hampshire | 10,919 | 12,577 | 10,143 | 11,178 | - | (2) |
| Massachusetts | 229,991 | 214,706 | 252,518 | 204,408 | 1948 | 649,696 |
| Rhode Island | 138,693 | 74,813 | 131,420 | 71,066 | 1957 | 142,080 |
| Connecticut | 16,959 | 30,573 | 17,625 | 34,359 | 1930 | 88,012 |
| Middle Atlantic: | 236,881 | 199,912 | 261,686 | 181,177 | - | - |
| New York | 59,943 | 96,689 | 57,532 | 84,323 | 1880 | 335,000 |
| New Jersey | 168,289 | 97,898 | 195,918 | 90,919 | 1956 | 540,060 |
| Delaware | 8,649 | 5,325 | 7,898 | 5,882 | 1953 | 367,500 |
| Pennsylvania | NA | NA | 338 | 53 | - | - |
| Chesapeake: | 688,142 | 169,319 | 653,365 | 179,869 | - | - |
| Maryland | 76,627 | 64,321 | 61,468 | 67,190 | 1890 | 141,607 |
| Virginia | 611,515 | 104,998 | 591,897 | 112,679 | 1990 | 786,794 |
| South Atlantic: | 298,685 | 213,386 | 239,912 | 197,010 | - | - |
| North Carolina | 229,729 | 101,729 | 182,161 | 104,777 | 1981 | 432,006 |
| South Carolina | 17,023 | 31,456 | 17,304 | 28,292 | 1965 | 26,611 |
| Georgia | 14,511 | 27,400 | 13,017 | 23,737 | 1927 | 47,607 |
| Florida, East Coast | 37,422 | 52,801 | 27,430 | 40,204 | - | (2) |
| Gulf: | 1,790,310 | 758,681 | 1,536,583 | 718,925 | - | - |
| Florida, West Coast | 77,307 | 156,439 | 87,010 | 148,356 | - | (2) |
| Alabama | 23,076 | 38,311 | 30,081 | 46,985 | 1973 | 36,744 |
| Mississippi | 177,782 | 41,972 | 210,775 | 48,434 | 1985 | 439,518 |
| Louisiana | 1,426,495 | 318,822 | 1,119,500 | 291,893 | 1984 | 1,931,027 |
| Texas | 85,650 | 203,137 | 89,217 | 183,257 | 1960 | 237,684 |
| Pacific Coast: | 6,125,787 | 1,464,962 | 5,843,268 | 1,235,709 | - | - |
| Alaska | 4,765,002 | 1,066,555 | 4,858,052 | 951,479 | 1993 | 5,905,638 |
| Washington | 438,567 | 139,648 | 418,985 | 123,223 | 1994 | 527,804 |
| Oregon | 273,503 | 80,423 | 230,125 | 50,341 | 1992 | 256,912 |
| California | 648,715 | 178,336 | 336,106 | 110,666 | 1936 | 1,760,193 |
| Great Lakes: | 26,256 | 16,797 | 27,116 | 16,274 | - | - |
| Illinois | 154 | 241 | 98 | 98 | - | (2) |
| Indiana | 158 | 327 | - | - | - | (2) |
| Michigan | 15,874 | 9,623 | 14,831 | 8,862 | 1930 | 35,580 |
| Minnesota | 472 | 236 | 427 | 224 | - | (2) |
| New York | 70 | 74 | 1 | 2 | - | - |
| Ohio | 3,970 | 2,199 | 4,733 | 2,618 | 1936 | 31,083 |
| Pennsylvania | 13 | 11 | 35 | 52 | - | (2) |
| Wisconsin | 5,545 | 4,086 | 6,991 | 4,418 | - | (2) |
| Hawaii | 36,568 | 68,693 | 36,426 | 62,065 | 1993 | 34,582 |
| Total, United States | 9,843,250 | 3,447,663 | 9,193,967 | 3,128,471 | - | --- |

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, 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.

NA:--Not applicable.

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 by U.S.-flag vessels unloaded onto foreign vessels within the EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" beginning on page 1. There may also be differences in totals due to rounding. Data do not include aquaculture products, except oysters or clams.

U.S. COMMERCIAL LANDINGS

COMMERCIAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1997-1998

| Port | Quantity | | Port | Value | |
|---------------------------------|-----------------------|-------|------------------------------|------------------------|-------|
| | 1997 | 1998 | | 1997 | 1998 |
| | <u>Million pounds</u> | | | <u>Million dollars</u> | |
| Dutch Harbor, AK | 587.8 | 597.1 | Dutch Harbor, AK | 122.6 | 110.0 |
| Reedville, VA | 491.9 | 509.0 | New Bedford, MA | 103.2 | 93.5 |
| Kodiak, AK | 277.5 | 357.6 | Kodiak, AK | 88.6 | 78.7 |
| Empire-Venice, LA | 395.9 | 328.0 | Brownsville-Port Isabel, TX | 46.1 | 64.2 |
| Seattle, WA | 336.1 | 312.8 | Honolulu, HI | 54.0 | 49.0 |
| Cameron, LA | 379.6 | 257.4 | Key West, FL | 54.9 | 44.8 |
| Intercoastal City, LA | 270.8 | 206.7 | Reedville, VA | 29.5 | 42.6 |
| Pascagoula-Moss Point, MS | 164.7 | 193.2 | Point Judith, RI | 47.6 | 41.8 |
| Morgan City-Berwick, LA | 222.9 | 158.6 | Dulac-Chauvin, LA | 42.1 | 38.7 |
| Los Angeles, CA | 168.2 | 145.3 | Empire-Venice, LA | 57.8 | 38.3 |
| Newport, OR | 107.7 | 117.6 | Bayou La Batre, AL | 25.8 | 36.4 |
| Gloucester, MA | 81.5 | 107.1 | Portland, ME | 43.2 | 35.2 |
| Ketchikan, AK | 65.2 | 99.9 | Palacios, TX | 30.4 | 32.6 |
| Cape May-Wildwood, NJ | 71.1 | 94.0 | Port Arthur, TX | 23.9 | 32.6 |
| Astoria, OR | 114.8 | 87.7 | Gulfport-Biloxi, MS | 23.1 | 30.1 |
| New Bedford, MA | 83.3 | 87.4 | Cameron, LA | 35.1 | 29.8 |
| Beaufort-Morehead City, NC | 128.6 | 80.4 | Naknek-King Salmon, AK | 27.6 | 29.5 |
| Point Judith, RI | 74.9 | 75.1 | Cape May-Wildwood, NJ | 29.7 | 29.2 |
| Petersburg, AK | 70.1 | 73.0 | Tampa Bay-St. Petersburg, FL | 17.6 | 28.7 |
| Portland, ME | 74.8 | 46.5 | Gloucester, MA | 23.5 | 28.4 |
| Cordova, AK | 59.4 | 45.4 | Hampton Roads Area, VA | 27.9 | 28.0 |
| Seward, AK | 32.8 | 45.0 | Galveston, TX | 24.2 | 27.9 |
| Rockland, ME | 68.3 | 39.0 | Golden Meadow-Leeville, LA | 24.8 | 27.1 |
| Atlantic City, NJ | 39.0 | 37.3 | Seward, AK | 27.8 | 26.3 |
| Wanchese-Stumpy Point, NC | 38.1 | 36.7 | Petersburg, AK | 29.3 | 26.1 |
| Westport, WA | 31.3 | 34.5 | Los Angeles, CA | 31.4 | 25.7 |
| Naknek-King Salmon, AK | 41.5 | 34.1 | Wanchese-Stumpy Point, NC | 24.0 | 24.7 |
| Point Pleasant, NJ | 32.4 | 32.9 | Sitka, AK | 28.2 | 24.3 |
| Dulac-Chauvin, LA | 32.5 | 30.5 | Ketchikan, AK | 19.6 | 22.8 |
| Honolulu, HI | 28.3 | 28.3 | Delcambre, LA | 21.6 | 22.5 |
| Moss Landings, CA | 44.6 | 27.3 | Seattle, WA | 22.1 | 22.3 |
| Brownsville-Port Isabel, TX | 13.8 | 24.7 | Beaufort-Morehead City, NC | 23.7 | 20.8 |
| Bellingham, WA | 24.8 | 24.0 | Cordova, AK | 26.4 | 20.7 |
| Bayou La Batre, AL | 12.1 | 23.6 | Fort Myers, FL | 16.0 | 20.5 |
| Crescent City, CA | 32.7 | 22.9 | Homer, AK | 19.9 | 18.9 |
| Hampton Roads Area, VA | 23.6 | 21.9 | Astoria, OR | 22.4 | 18.0 |
| Sitka, AK | 21.3 | 19.3 | Atlantic City, NJ | 20.8 | 17.8 |
| Homer, AK | 24.6 | 19.0 | Morgan City-Berwick, LA | 19.1 | 17.8 |
| Key West, FL | 18.8 | 18.9 | Grand Isle, LA | 15.8 | 17.1 |
| Kenai, AK | 36.5 | 18.7 | Bellingham, WA | 17.2 | 16.7 |
| Ilwaco-Chinook, WA | 13.1 | 18.1 | Point Pleasant, NJ | 16.8 | 16.7 |
| Wrangell, AK | 13.4 | 17.9 | Freeport, TX | 15.2 | 16.1 |
| Provincetown-Chatham, MA | 16.8 | 17.8 | Delacroix-Yscloskey, LA | 15.8 | 15.6 |
| Englehard-Swanquarter, NC | 14.7 | 17.7 | Aransas Pass-Rockport, TX | 17.4 | 15.5 |
| Golden Meadow-Leeville, LA | 15.1 | 17.6 | Newport, OR | 20.9 | 14.1 |
| Galveston, TX | 12.5 | 16.3 | Pascagoula-Moss Point, MS | 13.4 | 13.8 |
| Port Hueneme-Oxnard-Ventura, CA | 111.9 | 16.0 | Charleston-Mt. Pleasant, SC | 14.6 | 13.0 |
| Hampton Bay-Shinnecock, NY | 12.9 | 14.7 | Westport, WA | 19.6 | 12.8 |
| Coos Bay-Charleston, OR | 21.5 | 14.6 | Intercoastal City, LA | 15.5 | 12.7 |
| Palacios, TX | 11.5 | 14.6 | Englehard-Swanquarter, NC | 10.7 | 12.5 |
| Port Arthur, TX | 9.5 | 14.6 | Montauk, NY | 13.5 | 12.2 |

Notes:--To avoid disclosure of private enterprise certain leading ports have not been included. Seattle landings include fish caught by at-sea processing vessels. The record landings for quantity was 848.2 million pounds in Los Angeles, CA in 1960 and for value was \$224.1 million in Dutch Harbor-Unalaska, AK in 1994.

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)**

| Species | Distance from U.S. shores | | | | High Seas or off Foreign Shores | | Grand Total | |
|----------------------|---------------------------|------------------|-----------------|------------------|---------------------------------|------------------|-----------------|------------------|
| | 0 to 3 miles | | 3 - 200 miles | | Thousand Pounds | Thousand Dollars | Thousand Pounds | Thousand Dollars |
| | Thousand Pounds | Thousand Dollars | Thousand Pounds | Thousand Dollars | | | | |
| Fish | | | | | | | | |
| Alewives | 1,301 | 292 | 8 | 1 | - | - | 1,309 | 293 |
| Anchovies | 2,853 | 210 | 576 | 32 | - | - | 3,429 | 242 |
| Atka mackerel | (3) | (3) | 113,712 | 5,686 | - | - | 113,712 | 5,686 |
| Bluefish | 5,248 | 1,772 | 3,052 | 993 | - | - | 8,300 | 2,765 |
| Blue runner | 303 | 200 | 306 | 140 | - | - | 609 | 340 |
| Bonito | 661 | 251 | 1,935 | 667 | - | - | 2,596 | 918 |
| Butterfish | 897 | 525 | 4,788 | 2,322 | - | - | 5,685 | 2,847 |
| Cattfish & bullheads | 11,590 | 5,251 | (3) | (3) | - | - | 11,590 | 5,251 |
| Chubs | 4,596 | 1,883 | - | - | - | - | 4,596 | 1,883 |
| Cod: | | | | | | | | |
| Atlantic | 1,100 | 1,149 | 23,414 | 24,325 | - | - | 24,514 | 25,474 |
| Pacific | 44,055 | 7,903 | 511,937 | 79,814 | - | - | 555,992 | 87,717 |
| Crevalle | 314 | 198 | 561 | 289 | - | - | 875 | 487 |
| Croaker: | | | | | | | | |
| Atlantic | 18,133 | 7,136 | 7,268 | 2,483 | - | - | 25,401 | 9,619 |
| Pacific (white) | 33 | 23 | 109 | 77 | - | - | 142 | 100 |
| Cusk | 96 | 61 | 684 | 451 | - | - | 780 | 512 |
| Dolphinfish | 3 | 4 | 915 | 1,366 | 4 | 5 | 922 | 1,375 |
| Eel, American | 1,015 | 3,971 | (3) | (3) | - | - | 1,015 | 3,971 |
| Flounders: | | | | | | | | |
| Arrowtooth | 871 | 61 | 17,309 | 844 | - | - | 18,180 | 905 |
| Winter (blackback) | 2,428 | 3,179 | 8,816 | 11,931 | - | - | 11,244 | 15,110 |
| Plaice, American | 1,055 | 1,270 | 7,017 | 9,029 | - | - | 8,072 | 10,299 |
| Summer (fluke) | 2,696 | 5,572 | 8,514 | 14,813 | - | - | 11,210 | 20,385 |
| Sole: | | | | | | | | |
| Dover | 3,595 | 1,229 | 18,434 | 5,347 | - | - | 22,029 | 6,576 |
| Flathead | 314 | 40 | 41,323 | 761 | - | - | 41,637 | 801 |
| Witch (gray) | 444 | 659 | 3,645 | 5,881 | - | - | 4,089 | 6,540 |
| Petrale | 786 | 738 | 2,442 | 2,306 | - | - | 3,228 | 3,044 |
| Rock | 616 | 22 | 32,893 | 688 | - | - | 33,509 | 710 |
| Yellowfin | 42 | 3 | 177,429 | 3,551 | - | - | 177,471 | 3,554 |

(Continued)

See footnotes at end of table

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)**

| Species | Distance from U.S. shores | | | | High Seas or off Foreign Shores | | Grand Total | |
|-------------------------------|---------------------------|------------------|-----------------|------------------|---------------------------------|------------------|------------------|------------------|
| | 0 to 3 miles | | 3 - 200 miles | | Thousand Pounds | Thousand Dollars | Thousand Pounds | Thousand Dollars |
| | Thousand Pounds | Thousand Dollars | Thousand Pounds | Thousand Dollars | | | | |
| Fish - Continued | | | | | | | | |
| Flounders - Continued: | | | | | | | | |
| Yellowtail | 424 | 538 | 7,636 | 10,402 | - | - | 8,060 | 10,940 |
| Atlantic/Gulf, other | 4,830 | 9,109 | 1,034 | 423 | - | - | 5,864 | 9,532 |
| Pacific, other | 3,276 | 2,258 | 43,307 | 6,151 | - | - | 46,583 | 8,409 |
| Total flounders | 21,377 | 24,678 | 369,799 | 72,127 | - | - | 391,176 | 96,805 |
| Goosefish (anglerfish) | 6,180 | 3,637 | 51,925 | 29,916 | - | - | 58,105 | 33,553 |
| Groupers | 434 | 904 | 9,407 | 19,948 | - | - | 9,841 | 20,852 |
| Haddock | 327 | 408 | 5,925 | 7,471 | - | - | 6,252 | 7,879 |
| Hakes: | | | | | | | | |
| Pacific (whiting) | | | 501,554 | 19,931 | - | - | 501,554 | 19,931 |
| Red | 81 | 19 | 2,881 | 750 | - | - | 2,962 | 769 |
| Silver (Atl. Whiting) | 351 | 126 | 32,639 | 13,243 | - | - | 32,990 | 13,369 |
| White | 529 | 356 | 4,726 | 3,432 | - | - | 5,255 | 3,788 |
| Hallbut | 3,597 | 5,248 | 71,141 | 100,536 | 8 | 10 | 74,746 | 105,794 |
| Herring: | | | | | | | | |
| Sea: | | | | | | | | |
| Atlantic | 26,241 | 1,795 | 153,481 | 9,062 | - | - | 179,722 | 10,857 |
| Pacific | 92,289 | 10,722 | 7 | (3) | - | - | 92,296 | 10,722 |
| Thread | 5,674 | 658 | 4 | (3) | - | - | 5,678 | 658 |
| Jack mackerel | 1,259 | 168 | 2,186 | 141 | - | - | 3,445 | 309 |
| Lingcod | 488 | 298 | 966 | 628 | - | - | 1,454 | 926 |
| Mackerels: | | | | | | | | |
| Atlantic | 945 | 251 | 26,642 | 4,454 | - | - | 27,587 | 4,705 |
| Chub | 30,113 | 1,679 | 14,912 | 868 | - | - | 45,025 | 2,547 |
| King and cero | 454 | 500 | 4,750 | 6,297 | - | - | 5,204 | 6,797 |
| Spanish | 785 | 546 | 2,432 | 1,261 | - | - | 3,217 | 1,807 |
| Menhaden: | | | | | | | | |
| Atlantic | 607,220 | 46,825 | 1,756 | 154 | - | - | 608,976 | 46,979 |
| Gulf | 866,626 | 44,881 | 230,076 | 11,976 | - | - | 1,096,702 | 56,857 |
| Total menhaden | 1,473,846 | 91,706 | 231,832 | 12,130 | - | - | 1,705,678 | 103,836 |
| Mulletts | 17,845 | 9,386 | 76 | 34 | - | - | 17,921 | 9,420 |
| Ocean perch: | | | | | | | | |
| Atlantic | 31 | 18 | 675 | 401 | - | - | 706 | 419 |
| Pacific | 90 | 7 | 40,573 | 4,065 | - | - | 40,663 | 4,072 |

(Continued)

See footnotes at end of table

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)**

| Species | Distance from U.S. shores | | | | High Seas or off Foreign Shores | | Grand Total | |
|-------------------------|---------------------------|------------------|-----------------|------------------|---------------------------------|------------------|-----------------|------------------|
| | 0 to 3 miles | | 3 - 200 miles | | Thousand Pounds | Thousand Dollars | Thousand Pounds | Thousand Dollars |
| | Thousand Pounds | Thousand Dollars | Thousand Pounds | Thousand Dollars | | | | |
| Fish - Continued | | | | | | | | |
| Pollock: | | | | | | | | |
| Atlantic | 726 | 461 | 11,581 | 7,640 | - | - | 12,307 | 8,101 |
| Walleye (Alaska) | 125,658 | 8,796 | 2,590,800 | 181,356 | - | - | 2,716,458 | 190,152 |
| Rockfishes: | | | | | | | | |
| Bocaccio | 48 | 25 | 1,266 | 493 | - | - | 1,314 | 518 |
| Canary | 86 | 50 | 2,808 | 1,419 | - | - | 2,894 | 1,469 |
| Chilipepper | 696 | 295 | 2,110 | 892 | - | - | 2,806 | 1,187 |
| Widow | 41 | 17 | 10,755 | 3,833 | - | - | 10,796 | 3,850 |
| Yellowtail | 378 | 191 | 7,562 | 2,815 | - | - | 7,940 | 3,006 |
| Other | 3,125 | 1,470 | 41,182 | 21,541 | - | - | 44,307 | 23,011 |
| Total rockfishes | 4,374 | 2,048 | 65,683 | 30,993 | - | - | 70,057 | 33,041 |
| Sablefish | 6759 | 14968 | 36740 | 76855 | - | - | 43,499 | 91,823 |
| Salmon: | | | | | | | | |
| Chinook or king | 13,382 | 15,119 | 2,847 | 3,879 | - | - | 16,229 | 18,998 |
| Chum or keta | 130,931 | 22,661 | 8 | 1 | - | - | 130,939 | 22,662 |
| Pink | 332,558 | 45,577 | 19 | 3 | - | - | 332,577 | 45,580 |
| Red or sockeye | 128,740 | 150,833 | 1 | 1 | - | - | 128,741 | 150,834 |
| Silver or coho | 34,395 | 18,224 | 1,552 | 1,157 | - | - | 35,947 | 19,381 |
| Total salmon | 640,006 | 252,414 | 4,427 | 5,041 | - | - | 644,433 | 257,455 |
| Sardines: | | | | | | | | |
| Pacific | 66,665 | 2,566 | 27,210 | 1,047 | - | - | 93,875 | 3,613 |
| Spanish | 1,079 | 251 | - | - | - | - | 1,079 | 251 |
| Scup or porgy | 1,558 | 2,673 | 3,356 | 4,208 | - | - | 4,914 | 6,881 |
| Sea bass: | | | | | | | | |
| Black (Atlantic) | 548 | 1,091 | 2,829 | 4,251 | - | - | 3,377 | 5,342 |
| White (Pacific) | 52 | 97 | 105 | 198 | - | - | 157 | 295 |
| Sea trout or weakfish: | | | | | | | | |
| Gray | 6,058 | 2,915 | 2,366 | 1,145 | - | - | 8,424 | 4,060 |
| Spotted | 583 | 840 | 1 | 1 | - | - | 584 | 841 |
| Sand (white) | 109 | 73 | 14 | 7 | - | - | 123 | 80 |
| Shad: | | | | | | | | |
| American | 4,276 | 1,681 | 99 | 34 | - | - | 4,375 | 1,715 |
| Hickory | 95 | 13 | 10 | 1 | - | - | 105 | 14 |

(Continued)

See footnotes at end of table

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)**

| Species | Distance from U.S. shores | | | | High Seas or off Foreign Shores | | Grand Total | |
|----------------------------|---------------------------|------------------|------------------|------------------|---------------------------------|------------------|------------------|------------------|
| | 0 to 3 miles | | 3 - 200 miles | | Thousand Pounds | Thousand Dollars | Thousand Pounds | Thousand Dollars |
| | Thousand Pounds | Thousand Dollars | Thousand Pounds | Thousand Dollars | | | | |
| Fish - Continued | | | | | | | | |
| Sharks: | | | | | | | | |
| Dogfish | 9,195 | 1,445 | 39,916 | 6,694 | - | - | 49,111 | 8,139 |
| Other | 1,363 | 568 | 11,587 | 5,452 | 2,503 | 624 | 15,453 | 6,644 |
| Sheepshead (Atlantic) | 2,986 | 1,071 | 24 | 9 | - | - | 3,010 | 1,080 |
| Skates | 9,568 | 1,320 | 24,101 | 3,257 | - | - | 33,669 | 4,577 |
| Smelts | 1,599 | 622 | 218 | 22 | - | - | 1,817 | 644 |
| Snappers: | | | | | | | | |
| Red | 173 | 765 | 4,084 | 9,134 | - | - | 4,257 | 9,899 |
| Vermillion | 28 | 50 | 1,031 | 2,230 | - | - | 1,059 | 2,280 |
| Unclassified | 242 | 521 | 3,372 | 6,501 | - | - | 3,614 | 7,022 |
| Spearfish | 15 | 9 | 192 | 113 | 89 | 52 | 296 | 174 |
| Spot | 7,288 | 2,893 | 116 | 41 | - | - | 7,404 | 2,934 |
| Striped bass | 6,609 | 9,546 | 106 | 153 | - | - | 6,715 | 9,699 |
| Swordfish | 55 | 104 | 11,261 | 22,236 | 3,777 | 6,548 | 15,093 | 28,888 |
| Tenpounder (ladyfish) | 2,134 | 1,173 | 17 | 5 | - | - | 2,151 | 1,178 |
| Tilefish | 13 | 16 | 3,787 | 5,995 | - | - | 3,800 | 6,011 |
| Trout, Rainbow | 789 | 497 | - | - | - | - | 789 | 497 |
| Tuna: | | | | | | | | |
| Albacore | 2 | 2 | 27,512 | 17,965 | 17,180 | 12,708 | 44,694 | 30,675 |
| Bigeye | 11 | 24 | 6,429 | 18,087 | 11,146 | 10,758 | 17,586 | 28,869 |
| Bluefin | 6 | 15 | 4,488 | 13,812 | 2,166 | 1,620 | 6,660 | 15,447 |
| Little tunny | 167 | 30 | 494 | 131 | - | - | 661 | 161 |
| Skipjack | 122 | 146 | 1,088 | 1,267 | 271,426 | 102,223 | 272,636 | 103,636 |
| Yellowfin | 175 | 373 | 7,172 | 15,311 | 129,144 | 62,308 | 136,491 | 77,992 |
| Unclassified | 4 | 8 | 185 | 194 | 531 | 203 | 720 | 405 |
| Total tuna | 487 | 598 | 47,368 | 66,767 | 431,593 | 189,820 | 479,448 | 257,185 |
| Whitefish, common | 12,519 | 9,418 | - | - | - | - | 12,519 | 9,418 |
| Wolffish, Atlantic | 26 | 14 | 627 | 307 | - | - | 653 | 321 |
| Yellow perch | 1,227 | 2,637 | (3) | (3) | - | - | 1,227 | 2,637 |
| Other marine finfishes | 25,451 | 19,521 | 31,052 | 16,187 | 692 | 1,025 | 57,195 | 36,733 |
| Other freshwater finfishes | 12,847 | 3,914 | (3) | (3) | - | - | 12,847 | 3,914 |
| Total finfish | 2,728,294 | 531,528 | 5,121,878 | 883,221 | 438,666 | 198,084 | 8,288,838 | 1,612,833 |

See footnotes at end of table

(Continued)

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)**

| Species | Distance from U.S. shores | | | | High Seas or off Foreign Shores | | Grand Total | |
|----------------------|---------------------------|------------------|-----------------|------------------|---------------------------------|------------------|-----------------|------------------|
| | 0 to 3 miles | | 3 - 200 miles | | Thousand Pounds | Thousand Dollars | Thousand Pounds | Thousand Dollars |
| | Thousand Pounds | Thousand Dollars | Thousand Pounds | Thousand Dollars | | | | |
| Shellfish | | | | | | | | |
| Clams: | | | | | | | | |
| Quahog (hard) | 7,193 | 41,775 | 1 | (3) | - | - | 7,194 | 41,775 |
| Geoduck (Pacific) | 1,445 | 16,025 | (3) | (3) | - | - | 1,445 | 16,025 |
| Manila (Pacific) | 1,174 | 8,650 | - | - | - | - | 1,174 | 8,650 |
| Ocean quahog | 10,110 | 5,695 | 29,788 | 12,663 | - | - | 39,898 | 18,358 |
| Softshell | 2,815 | 12,235 | - | - | - | - | 2,815 | 12,235 |
| Surf (Atlantic) | 26,504 | 16,496 | 27,528 | 12,706 | - | - | 54,032 | 29,202 |
| Other | 1,401 | 8,992 | (3) | (3) | - | - | 1,401 | 8,992 |
| Total clams | 50,642 | 109,868 | 57,317 | 25,369 | - | - | 107,959 | 135,237 |
| Conch (snails) | 1,425 | 1,808 | 447 | 640 | - | - | 1,872 | 2,448 |
| Crabs: | | | | | | | | |
| Blue: Hard | 217,916 | 149,141 | (3) | (3) | - | - | 217,916 | 149,141 |
| Soft or peeler | 6,693 | 34,316 | (3) | (3) | - | - | 6,693 | 34,316 |
| Dungeness | 30,359 | 54,874 | 3,854 | 7,020 | - | - | 34,213 | 61,894 |
| Jonah | 1,411 | 705 | 1,357 | 654 | - | - | 2,768 | 1,359 |
| King | 1,068 | 2,511 | 23,054 | 54,854 | - | - | 24,122 | 57,365 |
| Snow (tanner): | | | | | | | | |
| Opilio | 437 | 245 | 248,709 | 139,526 | - | - | 249,146 | 139,771 |
| Bairdi | 2,685 | 5,207 | (3) | (3) | - | - | 2,685 | 5,207 |
| Other | 6,997 | 6,409 | 8,176 | 17,916 | - | - | 15,173 | 24,325 |
| Total crabs | 267,566 | 253,408 | 285,150 | 219,970 | - | - | 552,716 | 473,378 |
| Crawfish, freshwater | 22,226 | 14,637 | - | - | - | - | 22,226 | 14,637 |
| Horseshoe crab | 4,019 | 763 | 3,151 | 1,396 | - | - | 7,170 | 2,159 |
| Lobsters: | | | | | | | | |
| American | 69,378 | 216,011 | 10,264 | 37,624 | - | - | 79,642 | 253,635 |
| Spiny | 2,271 | 10,234 | 3,664 | 14,146 | - | - | 5,935 | 24,380 |
| Mussels, blue (sea) | 2,913 | 1,604 | - | - | - | - | 2,913 | 1,604 |
| Oysters | 33,538 | 88,627 | (3) | (3) | - | - | 33,538 | 88,627 |

(Continued)

See footnotes at end of table

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)**

| Species | Distance from U.S. shores | | | | High Seas or off Foreign Shores | | Grand Total | |
|------------------------------|---------------------------|------------------|------------------|------------------|---------------------------------|------------------|-------------------|------------------|
| | 0 to 3 miles | | 3 - 200 miles | | Thousand Pounds | Thousand Dollars | Thousand Pounds | Thousand Dollars |
| | Thousand Pounds | Thousand Dollars | Thousand Pounds | Thousand Dollars | | | | |
| Shellfish - Continued | | | | | | | | |
| Scallops: | | | | | | | | |
| Bay | 105 | 368 | (3) | (3) | - | - | 105 | 368 |
| Calico, Atlantic | (4) | (4) | (4) | (4) | - | - | (4) | (4) |
| Sea | 1,102 | 7,132 | 11,959 | 72,474 | - | - | 13,061 | 79,606 |
| Shrimp: | | | | | | | | |
| New England | 2,584 | 2,480 | 5,548 | 5,217 | - | - | 8,132 | 7,697 |
| South Atlantic | 20,007 | 52,832 | 3,964 | 8,509 | - | - | 23,971 | 61,341 |
| Gulf | 119,090 | 190,582 | 110,871 | 238,587 | - | - | 229,961 | 429,169 |
| Pacific | 6,839 | 9,560 | 8,706 | 7,213 | - | - | 15,545 | 16,773 |
| Other | 44 | 191 | 88 | 382 | 15 | 64 | 147 | 637 |
| Total shrimp | 148,564 | 255,645 | 129,177 | 259,908 | 15 | 64 | 277,756 | 515,617 |
| Squid: | | | | | | | | |
| Atlantic: | | | | | | | | |
| Illex | 5,033 | 1,355 | 45,049 | 8,108 | - | - | 50,082 | 9,463 |
| Loligo | 5,402 | 4,302 | 36,218 | 27,840 | - | - | 41,620 | 32,142 |
| Unclassified | 209 | 70 | 1,334 | 207 | - | - | 1,543 | 277 |
| Pacific: | | | | | | | | |
| Loligo | 5,555 | 1,414 | 418 | 106 | - | - | 5,973 | 1,520 |
| Unclassified | 235 | 71 | - | - | - | - | 235 | 71 |
| Total, squid | 16,434 | 7,212 | 83,019 | 36,261 | - | - | 99,453 | 43,473 |
| Other shellfish | 12,635 | 11,327 | 1,633 | 2,359 | - | - | 14,268 | 13,686 |
| Total shellfish | 632,818 | 978,644 | 585,781 | 670,147 | 15 | 64 | 1,218,614 | 1,648,855 |
| Other | | | | | | | | |
| Sea urchin | 30,042 | 27,319 | (3) | (3) | - | - | 30,042 | 27,319 |
| Seaweed, unclassified | 56,318 | 982 | - | - | - | - | 56,318 | 982 |
| Kelp (with herring eggs) | 315 | 1,017 | (3) | (3) | - | - | 315 | 1,017 |
| Worms | 660 | 3,355 | - | - | - | - | 660 | 3,355 |
| Total other | 87,335 | 32,673 | - | - | - | - | 87,335 | 32,673 |
| Grand total, 1998 | 3,448,447 | 1,542,845 | 5,707,659 | 1,553,368 | 438,681 | 198,148 | 9,594,787 | 3,294,361 |
| Grand total, 1997 | 3,984,359 | 1,654,195 | 5,819,081 | 1,754,494 | 418,437 | 224,485 | 10,221,877 | 3,633,174 |

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States. (3) Less than 500 LB or \$500. (4) Data are confidential and included with other shellfish.

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 EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. There may also be differences in totals due to rounding. Data do not include aquaculture products, except oysters or clams

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)**

| Species | Distance from U.S. shores | | | | High Seas or off Foreign Shores | | Total | |
|----------------------|---------------------------|------------------|----------------|------------------|---------------------------------|------------------|-------------|------------------|
| | 0 to 3 miles | | 3 to 200 miles | | Metric Tons | Thousand Dollars | Metric Tons | Thousand Dollars |
| | Metric Tons | Thousand Dollars | Metric Tons | Thousand Dollars | | | | |
| Fish | | | | | | | | |
| Alewives | 590 | 292 | 4 | 1 | - | 594 | 293 | |
| Anchovies | 1,294 | 210 | 261 | 32 | - | 1,555 | 242 | |
| Atka mackerel | (3) | (3) | 51,579 | 5,686 | - | 51,579 | 5,686 | |
| Bluefish | 2,380 | 1,772 | 1,384 | 993 | - | 3,765 | 2,765 | |
| Blue runner | 137 | 200 | 139 | 140 | - | 276 | 340 | |
| Bonito | 300 | 251 | 878 | 667 | - | 1,178 | 918 | |
| Butterfish | 407 | 525 | 2,172 | 2,322 | - | 2,579 | 2,847 | |
| Cattfish & bullheads | 5,257 | 5,251 | - | - | - | 5,257 | 5,251 | |
| Chubs | 2,085 | 1,883 | - | - | - | 2,085 | 1,883 | |
| Cod: | | | | | | | | |
| Atlantic | 499 | 1,149 | 10,621 | 24,325 | - | 11,119 | 25,474 | |
| Pacific | 19,983 | 7,903 | 232,213 | 79,814 | - | 252,196 | 87,717 | |
| Crevalle | 142 | 198 | 254 | 289 | - | 397 | 487 | |
| Croaker: | | | | | | | | |
| Atlantic | 8,225 | 7,136 | 3,297 | 2,483 | - | 11,522 | 9,619 | |
| Pacific (white) | 15 | 23 | 49 | 77 | - | 64 | 100 | |
| Cusk | 44 | 61 | 310 | 451 | - | 354 | 512 | |
| Dolphinfish | 1 | 4 | 415 | 1,366 | 2 | 418 | 1,375 | |
| Eel, American | 460 | 3,971 | (3) | (3) | - | 460 | 3,971 | |
| Flounders: | | | | | | | | |
| Arrowtooth | 395 | 61 | 7,851 | 844 | - | 8,246 | 905 | |
| Winter (blackback) | 1,101 | 3,179 | 3,999 | 11,931 | - | 5,100 | 15,110 | |
| Plaice, American | 479 | 1,270 | 3,183 | 9,029 | - | 3,661 | 10,299 | |
| Summer (fluke) | 1,223 | 5,572 | 3,862 | 14,813 | - | 5,085 | 20,385 | |
| Sole: | | | | | | | | |
| Dover | 1,631 | 1,229 | 8,362 | 5,347 | - | 9,992 | 6,576 | |
| Flathead | 142 | 40 | 18,744 | 761 | - | 18,886 | 801 | |
| Witch (gray) | 201 | 659 | 1,653 | 5,881 | - | 1,855 | 6,540 | |
| Petrale | 357 | 738 | 1,108 | 2,306 | - | 1,464 | 3,044 | |
| Rock | 279 | 22 | 14,920 | 688 | - | 15,200 | 710 | |
| Yellowfin | 19 | 3 | 80,481 | 3,551 | - | 80,500 | 3,554 | |

(Continued)

See footnotes at end of table

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)**

| Species | Distance from U.S. shores | | | | High Seas or off Foreign Shores | | Total | |
|-------------------------------|---------------------------|------------------|----------------|------------------|---------------------------------|------------------|----------------|------------------|
| | 0 to 3 miles | | 3 to 200 miles | | Metric Tons | Thousand Dollars | Metric Tons | Thousand Dollars |
| | Metric Tons | Thousand Dollars | Metric Tons | Thousand Dollars | | | | |
| Fish - Continued | | | | | | | | |
| Flounders - Continued: | | | | | | | | |
| Yellowtail | 192 | 538 | 3,464 | 10,402 | - | - | 3,656 | 10,940 |
| Atlantic/Gulf, other | 2,191 | 9,109 | 469 | 423 | - | - | 2,660 | 9,532 |
| Pacific, other | 1,486 | 2,258 | 19,644 | 6,151 | - | - | 21,130 | 8,409 |
| Total Flounders | 9,697 | 24,678 | 369,799 | 72,127 | - | - | 177,436 | 96,805 |
| Goosefish (anglerfish) | 2,803 | 3,637 | 23,553 | 29,916 | - | - | 26,356 | 33,553 |
| Groupers | 197 | 904 | 4,267 | 19,948 | - | - | 4,464 | 20,852 |
| Haddock | 148 | 408 | 2,688 | 7,471 | - | - | 2,836 | 7,879 |
| Hakes: | | | | | | | | |
| Pacific (whiting) | - | - | 227,503 | 19,931 | - | - | 227,503 | 19,931 |
| Red | 37 | 19 | 1,307 | 750 | - | - | 1,344 | 769 |
| Silver (Atl. Whiting) | 159 | 126 | 14,805 | 13,243 | - | - | 14,964 | 13,369 |
| White | 240 | 356 | 2,144 | 3,432 | - | - | 2,384 | 3,788 |
| Halibut | 1,632 | 5,248 | 32,269 | 100,536 | 4 | 10 | 33,905 | 105,794 |
| Herring: | | | | | | | | |
| Sea: | | | | | | | | |
| Atlantic | 11,903 | 1,795 | 69,619 | 9,062 | - | - | 81,521 | 10,857 |
| Pacific | 41,862 | 10,722 | 3 | (3) | - | - | 41,865 | 10,722 |
| Thread | 2,574 | 658 | 2 | (3) | - | - | 2,576 | 658 |
| Jack mackerel | 571 | 168 | 992 | 141 | - | - | 1,563 | 309 |
| Lingcod | 221 | 298 | 438 | 628 | - | - | 660 | 926 |
| Mackerels: | | | | | | | | |
| Atlantic | 429 | 251 | 12,085 | 4,454 | - | - | 12,513 | 4,705 |
| Chub | 13,659 | 1,679 | 6,764 | 868 | - | - | 20,423 | 2,547 |
| King and cero | 206 | 500 | 2,155 | 6,297 | - | - | 2,361 | 6,797 |
| Spanish | 356 | 546 | 1,103 | 1,261 | - | - | 1,459 | 1,807 |
| Menhaden: | | | | | | | | |
| Atlantic | 275,433 | 46,825 | 797 | 154 | - | - | 276,230 | 46,979 |
| Gulf | 393,099 | 44,881 | 104,362 | 11,976 | - | - | 497,461 | 56,857 |
| Total menhaden | 668,532 | 91,706 | 105,158 | 12,130 | - | - | 773,690 | 103,836 |
| Mulletts | 8,094 | 9,386 | 34 | 34 | - | - | 8,129 | 9,420 |
| Ocean perch: | | | | | | | | |
| Atlantic | 14 | 18 | 306 | 401 | - | - | 320 | 419 |
| Pacific | 41 | 7 | 18,404 | 4,065 | - | - | 18,445 | 4,072 |

(Continued)

See footnotes at end of table

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)**

| Species | Distance from U.S. shores | | | | | | High Seas or off Foreign Shores | | Total | |
|-------------------------|---------------------------|------------------|---------------|------------------|-------------|------------------|---------------------------------|------------------|-------------|------------------|
| | 0 to 3 miles | | | 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 - Continued | | | | | | | | | | |
| Pollock: | | | | | | | | | | |
| Atlantic | 329 | 461 | 5,253 | 7,640 | - | - | 5,582 | 8,101 | | |
| Walleye (Alaska) | 56,998 | 8,796 | 1,175,179 | 181,356 | - | - | 1,232,177 | 190,152 | | |
| Rockfishes: | | | | | | | | | | |
| Bocaccio | 22 | 25 | 574 | 493 | - | - | 596 | 518 | | |
| Canary | 39 | 50 | 1,274 | 1,419 | - | - | 1,313 | 1,469 | | |
| Chilipepper | 316 | 295 | 957 | 892 | - | - | 1,273 | 1,187 | | |
| Widow | 19 | 17 | 4,878 | 3,833 | - | - | 4,897 | 3,850 | | |
| Yellowtail | 171 | 191 | 3,430 | 2,815 | - | - | 3,602 | 3,006 | | |
| Other | 1,417 | 1,470 | 18,680 | 21,541 | - | - | 20,098 | 23,011 | | |
| Total rockfishes | 1,984 | 2,048 | 29,794 | 30,993 | - | - | 31,778 | 33,041 | | |
| Sablefish | 3,066 | 14,968 | 16,665 | 76,855 | - | - | 19,731 | 91,823 | | |
| Salmon: | | | | | | | | | | |
| Chinook or king | 6,070 | 15,119 | 1,291 | 3,879 | - | - | 7,361 | 18,998 | | |
| Chum or keta | 59,390 | 22,661 | 4 | 1 | - | - | 59,394 | 22,662 | | |
| Pink | 150,847 | 45,577 | 9 | 3 | - | - | 150,856 | 45,580 | | |
| Red or sockeye | 58,396 | 150,833 | 0 | 1 | - | - | 58,397 | 150,834 | | |
| Silver or coho | 15,601 | 18,224 | 704 | 1,157 | - | - | 16,305 | 19,381 | | |
| Total salmon | 290,305 | 252,414 | 2,008 | 5,041 | - | - | 292,313 | 257,455 | | |
| Sardines: | | | | | | | | | | |
| Pacific | 30,239 | 2,566 | 12,342 | 1,047 | - | - | 42,581 | 3,613 | | |
| Spanish | 489 | 251 | - | - | - | - | 489 | 251 | | |
| Scup or porgy | 707 | 2,673 | 1,522 | 4,208 | - | - | 2,229 | 6,881 | | |
| Sea bass: | | | | | | | | | | |
| Black (Atlantic) | 249 | 1,091 | 1,283 | 4,251 | - | - | 1,532 | 5,342 | | |
| White (Pacific) | 24 | 97 | 48 | 198 | - | - | 71 | 295 | | |
| Sea trout or weakfish: | | | | | | | | | | |
| Gray | 2,748 | 2,915 | 1,073 | 1,145 | - | - | 3,821 | 4,060 | | |
| Spotted | 264 | 840 | (3) | 1 | - | - | 264 | 841 | | |
| Sand (white) | 49 | 73 | 6 | 7 | - | - | 56 | 80 | | |
| Shad: | | | | | | | | | | |
| American | 1,940 | 1,681 | 45 | 34 | - | - | 1,984 | 1,715 | | |
| Hickory | 43 | 13 | 5 | 1 | - | - | 48 | 14 | | |

See footnotes at end of table

(Continued)

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)**

| Species | Distance from U.S. shores | | | | High Seas or off Foreign Shores | | Total | |
|----------------------------|---------------------------|------------------|------------------|------------------|---------------------------------|------------------|------------------|------------------|
| | 0 to 3 miles | | 3 to 200 miles | | Metric Tons | Thousand Dollars | Metric Tons | Thousand Dollars |
| | Metric Tons | Thousand Dollars | Metric Tons | Thousand Dollars | | | | |
| Fish - Continued | | | | | | | | |
| Sharks: | | | | | | | | |
| Dogfish | 4,171 | 1,445 | 18,106 | 6,694 | - | - | 22,277 | 8,139 |
| Other | 618 | 568 | 5,256 | 5,452 | 1,135 | 624 | 7,009 | 6,644 |
| Sheepshead (Atlantic) | 1,354 | 1,071 | 11 | 9 | - | - | 1,365 | 1,080 |
| Skates | 4,340 | 1,320 | 10,932 | 3,257 | - | - | 15,272 | 4,577 |
| Smelts | 725 | 622 | 99 | 22 | - | - | 824 | 644 |
| Snappers: | | | | | | | | |
| Red | 78 | 765 | 1,852 | 9,134 | - | - | 1,931 | 9,899 |
| Vermillion | 13 | 50 | 468 | 2,230 | - | - | 480 | 2,280 |
| Unclassified | 110 | 521 | 1,530 | 6,501 | - | - | 1,639 | 7,022 |
| Spearfish | 7 | 9 | 87 | 113 | 40 | 52 | 134 | 174 |
| Spot | 3,306 | 2,893 | 53 | 41 | - | - | 3,358 | 2,934 |
| Striped bass | 2,998 | 9,546 | 48 | 153 | - | - | 3,046 | 9,699 |
| Swordfish | 25 | 104 | 5,108 | 22,236 | 1,713 | 6,548 | 6,846 | 28,888 |
| Tenpounder (ladyfish) | 968 | 1,173 | 8 | 5 | - | - | 976 | 1,178 |
| Tilefish | 6 | 16 | 1,718 | 5,995 | - | - | 1,724 | 6,011 |
| Trout, Rainbow | 358 | 497 | - | - | - | - | 358 | 497 |
| Tuna: | | | | | | | | |
| Albacore | 1 | 2 | 12,479 | 17,965 | 7,793 | 12,708 | 20,273 | 30,675 |
| Bigeye | 5 | 24 | 2,916 | 18,087 | 5,056 | 10,758 | 7,977 | 28,869 |
| Bluefin | 3 | 15 | 2,036 | 13,812 | 982 | 1,620 | 3,021 | 15,447 |
| Little tunny | 76 | 30 | 224 | 131 | - | - | 300 | 161 |
| Skipjack | 55 | 146 | 494 | 1,267 | 123,118 | 102,223 | 123,667 | 103,636 |
| Yellowfin | 79 | 373 | 3,253 | 15,311 | 58,579 | 62,308 | 61,912 | 77,992 |
| Unclassified | 2 | 8 | 84 | 194 | 241 | 203 | 327 | 405 |
| Total tuna | 221 | 598 | 21,486 | 66,767 | 195,769 | 189,820 | 217,476 | 257,185 |
| Whitefish, common | 5,679 | 9,418 | - | - | - | - | 5,679 | 9,418 |
| Wolffish, Atlantic | 12 | 14 | 284 | 307 | - | - | 296 | 321 |
| Yellow perch | 557 | 2,637 | (3) | (3) | - | - | 557 | 2,637 |
| Other marine finfishes | 11,544 | 19,521 | 14,085 | 16,187 | 314 | 1,025 | 25,943 | 36,733 |
| Other freshwater finfishes | 5,827 | 3,914 | (3) | (3) | - | - | 5,827 | 3,914 |
| Total finfish | 1,237,546 | 531,528 | 2,323,269 | 883,221 | 198,978 | 198,084 | 3,759,792 | 1,612,833 |

(Continued)

See footnotes at end of table

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)**

| Species | Distance from U.S. shores | | | | High Seas or off Foreign Shores | | Total | |
|----------------------|---------------------------|------------------|----------------|------------------|---------------------------------|------------------|----------------|------------------|
| | 0 to 3 miles | | 3 to 200 miles | | Metric Tons | Thousand Dollars | Metric Tons | Thousand Dollars |
| | Metric Tons | Thousand Dollars | Metric Tons | Thousand Dollars | | | | |
| Shellfish | | | | | | | | |
| Clams: | | | | | | | | |
| Quahog (hard) | 3,263 | 41,775 | (3) | (3) | - | - | 3,263 | 41,775 |
| Geoduck (Pacific) | 655 | 16,025 | (3) | (3) | - | - | 655 | 16,025 |
| Manila (Pacific) | 533 | 8,650 | - | - | - | - | 533 | 8,650 |
| Ocean quahog | 4,586 | 5,695 | 13,512 | 12,663 | - | - | 18,098 | 18,358 |
| Softshell | 1,277 | 12,235 | - | - | - | - | 1,277 | 12,235 |
| Surf (Atlantic) | 12,022 | 16,496 | 12,487 | 12,706 | - | - | 24,509 | 29,202 |
| Other | 635 | 8,992 | (3) | (3) | - | - | 635 | 8,992 |
| Total clams | 22,971 | 109,868 | 25,999 | 25,369 | - | - | 48,969 | 135,237 |
| Conch (snails) | 646 | 1,808 | 203 | 640 | - | - | 849 | 2,448 |
| Crabs: | | | | | | | | |
| Blue: Hard | 98,846 | 149,141 | (3) | (3) | - | - | 98,846 | 149,141 |
| Soft or peeler | 3,036 | 34,316 | (3) | (3) | - | - | 3,036 | 34,316 |
| Dungeness | 13,771 | 54,874 | 1,748 | 7,020 | - | - | 15,519 | 61,894 |
| Jonah | 640 | 705 | 616 | 654 | - | - | 1,256 | 1,359 |
| King | 484 | 2,511 | 10,457 | 54,854 | - | - | 10,942 | 57,365 |
| Snow (tanner): | | | | | | | | |
| Opilio | 198 | 245 | 112,814 | 139,526 | - | - | 113,012 | 139,771 |
| Bairdi | 1,218 | 5,207 | (3) | (3) | - | - | 1,218 | 5,207 |
| Other | 3,174 | 6,409 | 3,709 | 17,916 | - | - | 6,882 | 24,325 |
| Total crabs | 121,367 | 253,408 | 129,343 | 219,970 | - | - | 250,710 | 473,378 |
| Crawfish, freshwater | 10,082 | 14,637 | - | - | - | - | 10,082 | 14,637 |
| Horseshoe crab | 1,823 | 763 | 1,429 | 1,396 | - | - | 3,252 | 2,159 |
| Lobsters: | | | | | | | | |
| American | 31,470 | 216,011 | 4,656 | 37,624 | - | - | 36,125 | 253,635 |
| Spiny | 1,030 | 10,234 | 1,662 | 14,146 | - | - | 2,692 | 24,380 |
| Mussels, blue (sea) | 1,321 | 1,604 | - | - | - | - | 1,321 | 1,604 |
| Oysters | 15,213 | 88,627 | (3) | (3) | - | - | 15,213 | 88,627 |

See footnotes at end of table.

(Continued)

**COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT
OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)**

| Species | Distance from U.S. shores | | | | | | High Seas or off Foreign Shores | | Total | |
|------------------------------|---------------------------|------------------|------------------|------------------|----------------|------------------|---------------------------------|------------------|------------------|------------------|
| | 0 to 3 miles | | | 3 to 200 miles | | | Metric Tons | Thousand Dollars | Metric Tons | Thousand Dollars |
| | Metric Tons | Thousand Dollars | Metric Tons | Thousand Dollars | Metric Tons | Thousand Dollars | | | | |
| Shellfish - Continued | | | | | | | | | | |
| Scallops: Bay. | 48 | 368 | - | - | - | - | - | 48 | 368 | |
| Calico, Atlantic Sea | (4) 500 | (4) 7,132 | (4) 5,425 | (4) 72,474 | - | - | - | (4) 5,924 | (4) 79,606 | |
| Shrimp: | | | | | | | | | | |
| New England | 1,172 | 2,480 | 2,517 | 5,217 | - | - | - | 3,689 | 7,697 | |
| South Atlantic Gulf | 9,075 | 52,832 | 1,798 | 8,509 | - | - | - | 10,873 | 61,341 | |
| Pacific | 54,019 | 190,582 | 50,291 | 238,587 | - | - | - | 104,310 | 429,169 | |
| Other | 3,102 | 9,560 | 3,949 | 7,213 | - | - | - | 7,051 | 16,773 | |
| Total shrimp | 67,388 | 255,645 | 58,594 | 259,908 | 7 | 64 | 7 | 125,989 | 515,617 | |
| Squid: | | | | | | | | | | |
| Atlantic: | | | | | | | | | | |
| Illex | 2,283 | 1,355 | 20,434 | 8,108 | - | - | - | 22,717 | 9,463 | |
| Loligo | 2,450 | 4,302 | 16,428 | 27,840 | - | - | - | 18,879 | 32,142 | |
| Unclassified | 95 | 70 | 605 | 207 | - | - | - | 700 | 277 | |
| Pacific: | | | | | | | | | | |
| Loligo | 2,520 | 1,414 | 190 | 106 | - | - | - | 2,709 | 1,520 | |
| Unclassified | 107 | 71 | - | - | - | - | - | 107 | 71 | |
| Total, squid | 7,454 | 7,212 | 37,657 | 36,261 | - | - | - | 45,112 | 43,473 | |
| Other shellfish | 5,731 | 11,327 | 741 | 2,359 | - | - | - | 6,472 | 13,686 | |
| Total shellfish | 287,044 | 978,644 | 265,709 | 670,147 | 7 | 64 | 7 | 552,760 | 1,648,855 | |
| Other | | | | | | | | | | |
| Sea urchin | 13,627 | 27,319 | (3) | (3) | - | - | - | 13,627 | 27,319 | |
| Seaweed, unclassified | 25,546 | 982 | - | - | - | - | - | 25,546 | 982 | |
| Kelp (with herring eggs) | 143 | 1,017 | (3) | (3) | - | - | - | 143 | 1,017 | |
| Worms | 299 | 3,355 | - | - | - | - | - | 299 | 3,355 | |
| Total other | 39,615 | 32,673 | - | - | - | - | - | 39,615 | 32,673 | |
| Grand total, 1998 | 1,564,205 | 1,542,845 | 2,588,977 | 1,553,368 | 198,984 | 198,148 | 198,984 | 4,352,167 | 3,294,361 | |
| Grand total, 1997 | 1,805,907 | 1,654,195 | 2,639,518 | 1,754,494 | 189,802 | 189,802 | 189,802 | 4,635,227 | 3,408,689 | |

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States. (3) Less than 500 MT or \$500. (4) Data are confidential and included with other shellfish.

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 EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. There may also be differences in totals due to rounding. Data do not include aquaculture products, except oysters or clams.

U.S. COMMERCIAL LANDINGS

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1998 (1)

| Group / Species | Puerto Rico | | Guam | |
|-------------------------|----------------|------------------|--------------|---------------|
| | Pounds | Dollars | Pounds | Dollars |
| Fish | | | | |
| Ballyhoo | 36,968 | 43,622 | - | - |
| Barracuda | 25,468 | 39,985 | 2,056 | 4,046 |
| Billfish: | | | | |
| Marlin | - | - | 28,833 | 33,141 |
| Sailfish | - | - | 1,746 | 2,295 |
| Spearfish | - | - | 88 | 109 |
| Dolphin (Mahi mahi) | 124,586 | 237,959 | 173,478 | 318,766 |
| Emperors | - | - | 1,343 | 3,947 |
| Goatfish | 16,682 | 26,858 | 580 | 1,739 |
| Groupers: | | | | |
| Red hind | 48,840 | 100,610 | - | - |
| Nassau | 10,546 | 18,139 | - | - |
| Other | 41,600 | 85,280 | 957 | 2,659 |
| Grunts | | | | |
| Margate | 1,618 | 2,556 | - | - |
| Other | 119,306 | 171,801 | - | - |
| Jacks: | | | | |
| Amberjack | - | - | 259 | 743 |
| Bigeye Scad | - | - | 5,206 | 14,190 |
| Rainbow Runner | - | - | 1,211 | 2,744 |
| Rudderfish | - | - | 394 | 1,181 |
| Other | 62,354 | 87,296 | 2,706 | 7,382 |
| Mackerel, king and cero | 200,656 | 373,220 | - | - |
| Milkfish | - | - | 563 | 844 |
| Mojarra | 20,472 | 28,661 | - | - |
| Mullet | 55,866 | 65,922 | 96 | 256 |
| Parrotfish | 113,794 | 154,760 | 7,807 | 23,327 |
| Rabbitfish | - | - | 2,172 | 6,767 |
| Scup or porgy | 30,372 | 48,291 | - | - |
| Sharks, other | 46,514 | 76,283 | 16 | 8 |
| Snappers: | | | | |
| Ehu | - | - | 246 | 967 |
| Gindai (Flower Snap) | - | - | 755 | 2,859 |
| Kalikali | - | - | 314 | 1,099 |
| Lane | 176,842 | 364,295 | - | - |
| Lehi | - | - | 1,624 | 6,495 |
| Mutton | 80,854 | 172,219 | - | - |
| Onaga | - | - | 908 | 4,307 |
| Opakapaka | - | - | 730 | 2,892 |
| Silk | 168,778 | 448,949 | - | - |
| Uku (Gray Snapper) | - | - | 431 | 1,218 |
| Yellowtail | 241,608 | 488,048 | - | - |
| Other | 72,878 | 148,671 | 1,639 | 4,535 |
| Total snappers | 740,960 | 1,622,182 | 6,647 | 24,372 |
| Snook | 42,934 | 73,417 | - | - |
| Spanish sardine | 15,894 | 21,775 | - | - |
| Squirrelfish | 21,310 | 26,424 | 111 | 333 |
| Surgeonfishes: | | | | |
| Unicornfish | - | - | 5,820 | 17,423 |
| Other | - | - | 810 | 2,419 |
| Tarpon | 620 | 595 | - | - |
| Tilapia | - | - | 12,188 | 30,944 |
| Triggerfish | 63,262 | 101,219 | - | - |
| Trunkfish (boxfish) | 77,804 | 150,940 | - | - |

(Continued)

U.S. COMMERCIAL LANDINGS

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1998 (1) - Continued

| Group / Species | Puerto Rico | | Guam | |
|--------------------------------|------------------|------------------|---------------------------|------------------|
| | <u>Pounds</u> | <u>Dollars</u> | <u>Pounds</u> | <u>Dollars</u> |
| <u>Fish</u> | | | | |
| Tuna: | | | | |
| Dogtooth | - | - | 2,148 | 3,453 |
| Kawakawa | - | - | 31 | 39 |
| Skipjack | - | - | 61,332 | 76,522 |
| Yellowfin | - | - | 55,967 | 121,116 |
| Unclassified | 133,130 | 177,063 | - | - |
| Total tuna | 133,130 | 177,063 | 119,478 | 201,130 |
| Wahoo | - | - | 67,136 | 145,828 |
| Wrasse (Hogfish) | 54,766 | 108,984 | 3,066 | 7,645 |
| Other marine finfishes | - | - | 106,975 | 317,208 |
| Other freshwater fish | 503,116 | 337,108 | - | - |
| Total fish | 2,609,438 | 4,180,950 | 677,867 | 1,396,948 |
| <u>Shellfish, et al</u> | | | | |
| Crabs, other | 6,422 | 105,000 | - | - |
| Lobster, spiny | 250,842 | 1,347,022 | 1,808 | 7,045 |
| Conch (snail) meats | 301,812 | 724,349 | - | - |
| Oysters | 1,754 | 3,824 | - | - |
| Octopus | 27,682 | 72,250 | 2,223 | 7,516 |
| Shrimp | - | - | 1,592 | 12,645 |
| Shellfish, other | 14,484 | 41,714 | 93 | 381 |
| Total shellfish, et al. | 602,996 | 2,294,159 | 5,716 | 27,587 |
| Grand total | 3,212,434 | 6,475,109 | 557,458 | 2,821,483 |
| Group / Species | American Samoa | | Northern Marianas Islands | |
| <u>Fish</u> | <u>Pounds</u> | <u>Dollars</u> | <u>Pounds</u> | <u>Dollars</u> |
| Barracudas | 2,120 | 4,597 | 124 | 246 |
| Billfishes: | | | | |
| Blue marlin | 35,646 | 40,269 | 4,201 | 7,460 |
| Saifish | 3,327 | 4,966 | 104 | 210 |
| Dolphin (mahimahi) | 22,220 | 44,559 | 25,661 | 55,516 |
| Emperors | 869 | 1,739 | 13,853 | 38,784 |
| Goatfish | 43 | 85 | 1,698 | 3,684 |
| Groupers: | | | | |
| Lunartail | 680 | 1,377 | - | - |
| Other | 4,221 | 8,450 | 7,864 | 23,424 |
| Jacks: | | | | |
| Amberjack | - | - | 318 | 1,051 |
| Bigeye Scad | - | - | 515 | 1,691 |
| Black jack | 181 | 331 | - | - |
| Rainbow runner | 783 | 783 | 754 | 1,884 |
| Rudderfish | 291 | 581 | - | - |
| Other | 1,000 | 2,038 | 2,380 | 7,915 |
| Moonfish (Opah) | 443 | 886 | - | - |
| Mullet | - | - | 125 | 311 |
| Oilfish | 123 | 61 | - | - |
| Parrotfishes | 22,464 | 45,436 | 1,366 | 4,263 |
| Rabbitfish | 68 | 137 | 5,903 | 19,159 |
| Snappers: | | | | |
| Blue lined snapper | 616 | 1,257 | - | - |
| Ehu | 1,459 | 4,667 | 198 | 665 |
| Gindai (flower snapper) | 249 | 600 | 1,295 | 4,374 |
| Gray jobfish | 323 | 645 | - | - |
| Humpback | 459 | 1,013 | - | - |
| Kalikali | - | - | 591 | 2,515 |

(Continued)

U.S. COMMERCIAL LANDINGS

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1998 (1) - Continued

| Group / Species | American Samoa | | Northern Marianas Islands | |
|--------------------------------|------------------|------------------|---------------------------|------------------|
| | Pounds | Dollars | Pounds | Dollars |
| <u>Fish</u> | | | | |
| Lehi (silverjaw) | 250 | 779 | 6,028 | 24,054 |
| Onaga | 3,440 | 16,128 | 14,691 | 63,486 |
| Opakapaka | - | - | 2,729 | 8,769 |
| Stone's snapper | 172 | 343 | - | - |
| Yellow opakapaka | 374 | 842 | - | - |
| Snappers, other | 750 | 1,521 | 1,746 | 4,831 |
| Total snappers | 8,092 | 27,795 | 27,278 | 108,694 |
| Squirrelfish | 1,099 | 2,230 | 2,530 | 5,085 |
| Sunfish (Mola mola) | 366 | 366 | - | - |
| Surgeonfishes: | | | | |
| Lined surgeon | 15,787 | 31,502 | - | - |
| Striped bristletooth | 8,141 | 16,068 | - | - |
| Unicornfishes | 4,038 | 8,236 | 210 | 525 |
| Yellowfin | 465 | 823 | - | - |
| Other | | | 99 | 256 |
| Swordfish | 3,326 | 11,879 | - | - |
| Tunas: | | | | |
| Albacore | 636,622 | 683,254 | - | - |
| Bigeye | 5,478 | 11,741 | - | - |
| Dogtooth | 401 | 737 | 18,033 | 43,469 |
| Kawakawa | 20 | 24 | - | - |
| Skipjack | 16,672 | 15,171 | 167,274 | 334,648 |
| Yellowfin | 67,249 | 128,655 | 14,570 | 31,949 |
| Other | 726,442 | 839,582 | 2,766 | 5,786 |
| Total, tuna | 1,452,884 | 1,679,164 | 202,643 | 415,852 |
| Wahoo | 26,110 | 51,042 | 6,299 | 14,540 |
| Wrasses | 471 | 943 | - | - |
| Other finfishes | 4,901 | 9,731 | 213,048 | 520,714 |
| Total fish | 1,628,251 | 2,023,869 | 544,251 | 1,339,958 |
| <u>Shellfish, et al</u> | | | | |
| Crabs | 528 | 2,062 | - | - |
| Lobster, spiny | 3,359 | 13,319 | 5,586 | 30,175 |
| Octopus | 340 | 522 | 764 | 2,118 |
| Shellfish, Other | 2 | 3 | 183 | 958 |
| Total shellfish, et al. | 4,229 | 15,906 | 6,533 | 33,251 |
| Grand total | 3,260,731 | 4,063,644 | 1,095,035 | 2,713,167 |

(1) Data in this table are preliminary and represent the latest information available.

U.S. COMMERCIAL LANDINGS

ESTIMATED U.S. AQUACULTURE PRODUCTION, 1992 - 1997

| Species | 1992 | | | 1993 | | |
|----------------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| Finfish: | | | | | | |
| Baitfish | 20,618 | 9,352 | 61,183 | 20,574 | 9,332 | 63,033 |
| Catfish | 457,367 | 207,460 | 273,506 | 459,013 | 208,207 | 325,432 |
| Salmon | 23,937 | 10,858 | 75,193 | 25,279 | 11,466 | 68,358 |
| Striped bass | 3,550 | 1,610 | 8,266 | 5,950 | 2,699 | 14,270 |
| Tilapia | 9,500 | 4,309 | 10,260 | 12,500 | 5,670 | 15,625 |
| Trout | 56,264 | 25,521 | 53,942 | 54,642 | 24,785 | 54,309 |
| Shellfish: | | | | | | |
| Clams | 4,282 | 1,942 | 11,539 | 6,125 | 2,778 | 12,096 |
| Crawfish | 63,032 | 28,591 | 34,860 | 56,784 | 25,757 | 28,518 |
| Mussels | 282 | 128 | 1,162 | 308 | 140 | 927 |
| Oysters | 23,986 | 10,880 | 82,432 | 24,399 | 11,067 | 76,139 |
| Shrimp (SW) | 4,409 | 2,000 | 17,637 | 6,614 | 3,000 | 26,455 |
| Miscellaneous | 23,955 | 10,866 | 94,207 | 6,613 | 3,000 | 97,232 |
| Totals | 691,182 | 313,518 | 724,187 | 678,801 | 307,902 | 782,394 |
| Species | 1994 | | | 1995 | | |
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| Finfish: | | | | | | |
| Baitfish | 21,709 | 9,847 | 68,714 | 21,759 | 9,870 | 72,522 |
| Catfish | 439,269 | 199,251 | 344,475 | 446,886 | 202,706 | 351,222 |
| Salmon | 24,714 | 11,210 | 61,915 | 31,315 | 14,204 | 75,991 |
| Striped bass | 7,625 | 3,459 | 18,835 | 8,315 | 3,772 | 21,156 |
| Tilapia | 12,980 | 5,888 | 16,225 | 15,075 | 6,838 | 22,613 |
| Trout | 52,075 | 23,621 | 52,569 | 55,934 | 25,371 | 61,447 |
| Shellfish: | | | | | | |
| Clams | 4,872 | 2,210 | 14,023 | 4,325 | 1,962 | 19,709 |
| Crawfish | 49,080 | 22,263 | 26,994 | 58,146 | 26,375 | 34,714 |
| Mussels | 424 | 192 | 1,249 | 410 | 186 | 1,221 |
| Oysters | 28,016 | 12,708 | 69,928 | 23,221 | 10,533 | 70,628 |
| Shrimp (SW) | 4,409 | 2,000 | 17,637 | 2,205 | 1,000 | 8,818 |
| Miscellaneous | 20,462 | 9,282 | 58,545 | 23,359 | 10,596 | 75,243 |
| Totals | 665,635 | 301,930 | 751,109 | 690,950 | 313,413 | 815,284 |
| Species | 1996 | | | 1997 | | |
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| Finfish: | | | | | | |
| Baitfish | 20,849 | 9,457 | 70,254 | 19,929 | 9,040 | 73,580 |
| Catfish | 472,123 | 214,154 | 364,951 | 524,949 | 238,115 | 372,497 |
| Salmon | 30,657 | 13,906 | 60,995 | 39,745 | 18,028 | 65,053 |
| Striped bass | 7,850 | 3,561 | 20,308 | 8,400 | 3,810 | 21,783 |
| Tilapia | 15,965 | 7,242 | 23,948 | 16,860 | 7,648 | 29,505 |
| Trout | 53,620 | 24,322 | 56,958 | 56,710 | 25,723 | 60,212 |
| Shellfish: | | | | | | |
| Clams | 3,834 | 1,739 | 20,315 | 8,141 | 3,693 | 30,878 |
| Crawfish | 46,584 | 21,130 | 34,820 | 49,232 | 22,331 | 49,232 |
| Mussels | 986 | 447 | 5,085 | 2,985 | 1,354 | 3,365 |
| Oysters | 18,546 | 8,412 | 64,368 | 15,737 | 8,289 | 39,031 |
| Shrimp (SW) | 2,866 | 1,300 | 11,464 | 2,646 | 1,200 | 10,582 |
| Miscellaneous | 19,813 | 8,987 | 152,169 | 22,625 | 9,930 | 177,994 |
| Totals | 693,693 | 314,657 | 885,635 | 767,959 | 348,344 | 933,712 |

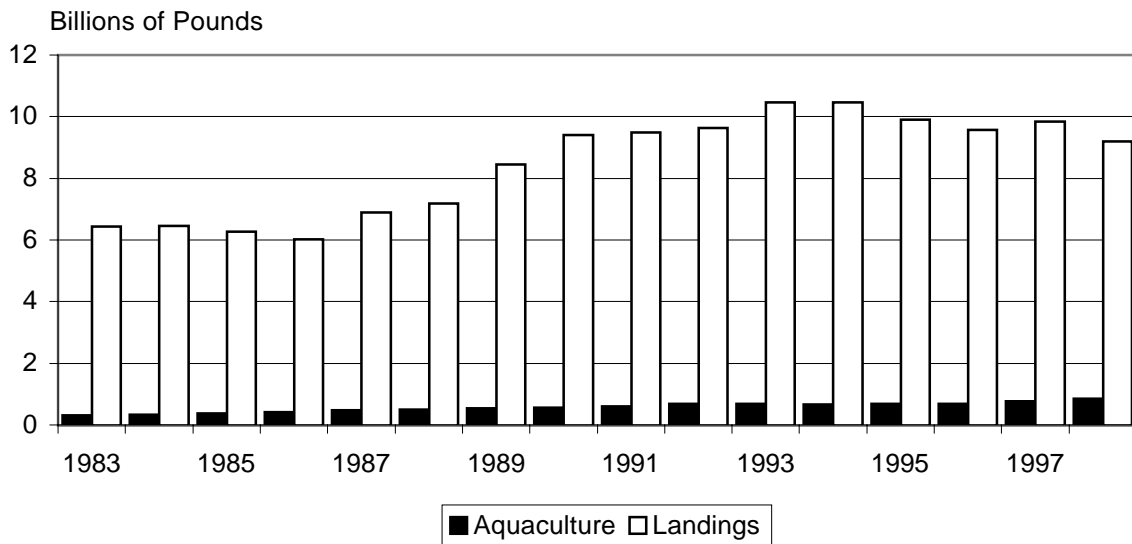
SW:--Saltwater.

NOTE:--Table may not add due to rounding. Clams, oysters and mussels are reported as meat weights (excludes shell) while other identified species such as shrimp and finfishes are reported as whole (live) weights. Some clam and oyster aquaculture production are reported with U.S. commercial landings. Weights and values represent the final sales of products to processors and dealers. "Miscellaneous" includes ornamental/tropical fish, alligators, algae, aquatic plants, eels, scallops, crabs, and others. The high value and low production of "Miscellaneous" occurs because production value, but not weight, are reported for many species such as ornamental fishes.

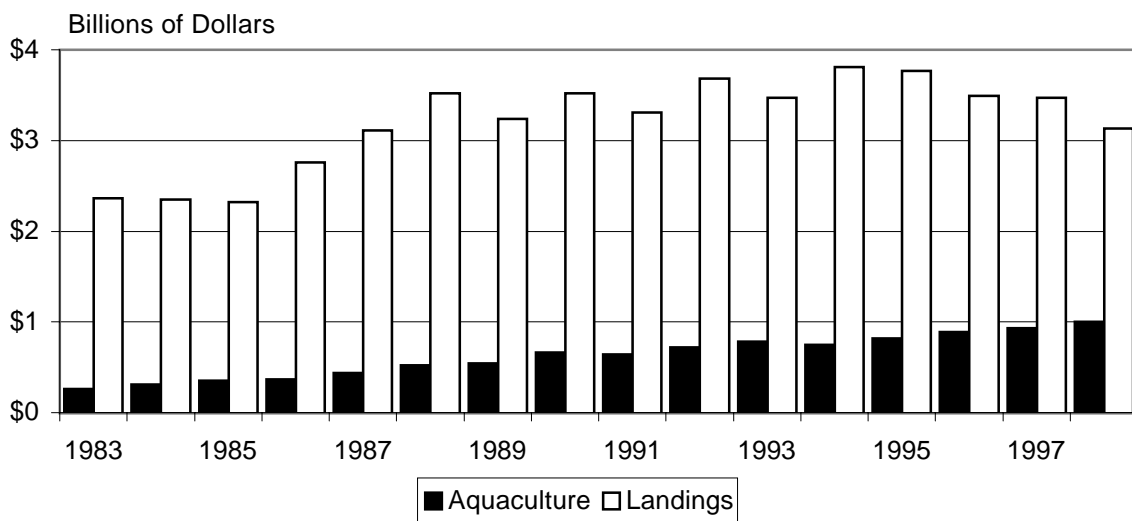
Source:--Fisheries Statistics and Economics Division, F/ST1, NMFS.

U.S. COMMERCIAL LANDINGS

Volume of U.S. Domestic Commercial Landings and Aquaculture Production

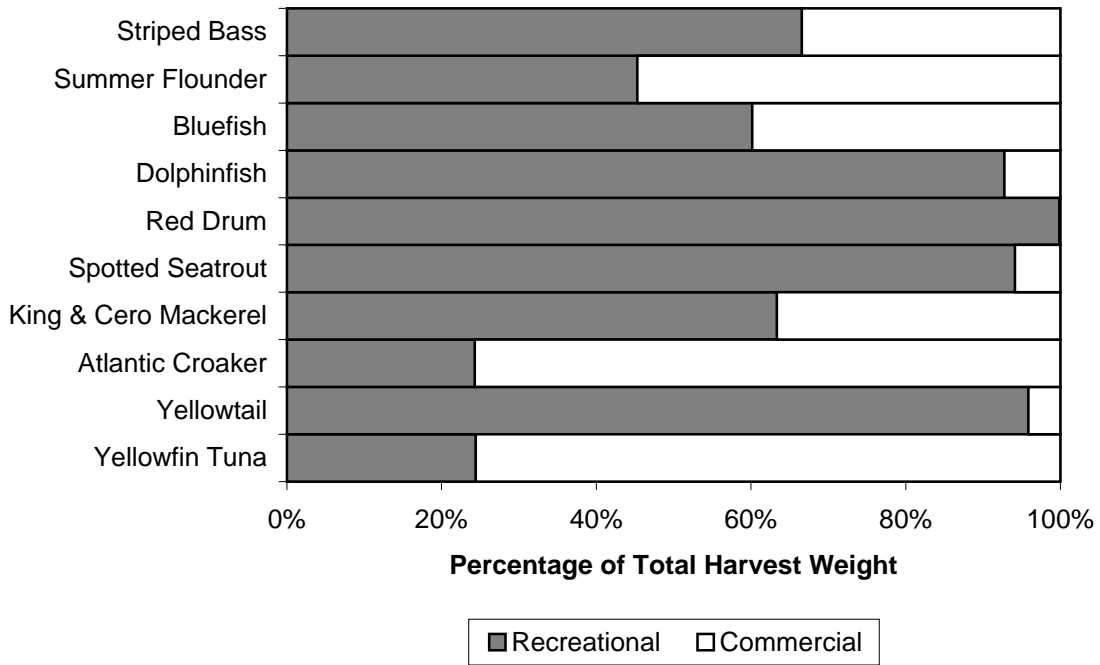


Value of U.S. Domestic Commercial Landings and Aquaculture Production

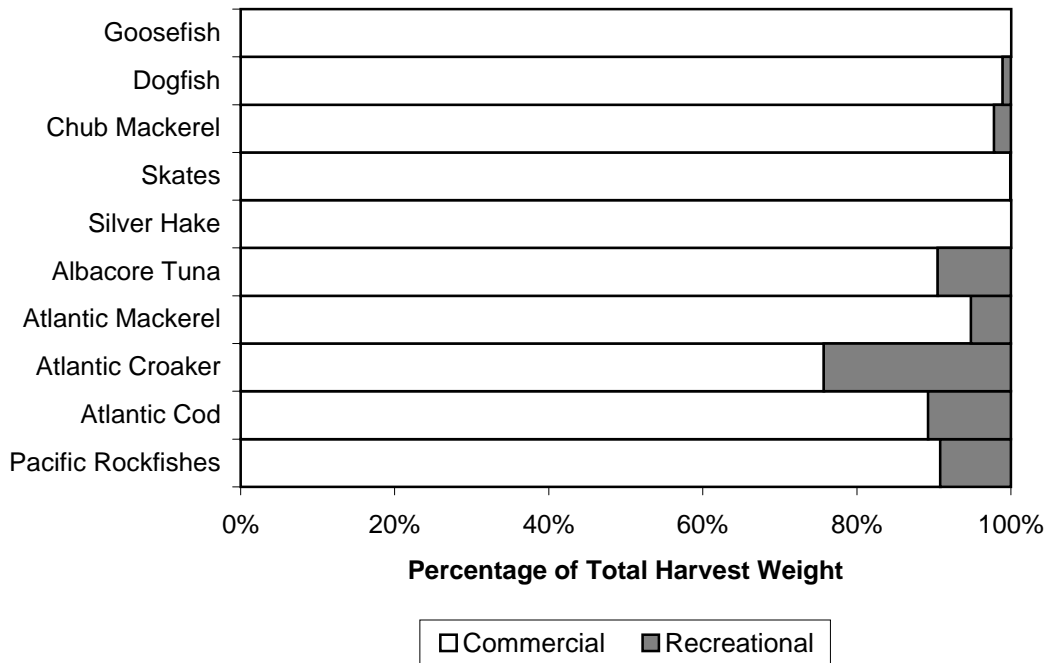


U.S. COMMERCIAL LANDINGS

**Top 10 Recreational Species - Harvest (A1 + B1)
Versus Commercial Harvest - 1998**



**Top 10 Commercial Species
Versus Recreational Harvest - 1998**



Comparisons between the U.S. commercial landings and recreational fish harvests do not include data for Alaska, Hawaii, and Texas because no NMFS recreational surveys were conducted. Menhaden, Pacific Hake, Atlantic Sea Herring and Pacific Sardine were excluded from the commercial landings because they are industrial fisheries and recreational anglers do not target them.

U.S. MARINE RECREATIONAL FISHERIES

DATA COLLECTION. Data on commercial fisheries were collected for many years, yet before 1979 there was no continuous, systematic collection of marine recreational fishery data. In 1979, NMFS began the comprehensive Marine Recreational Fishery Statistical Survey (MRFSS). Data collected through the MRFSS show that recreational fisheries have tremendous impacts on fish stocks. For several important species recreational landings surpass commercial landings (see figure on preceding page). Detailed information on marine recreational fishing is required to support a variety of fishery management and development purposes and is mandated by the Sustainable Fisheries Act, Public Law 94-265.

The MRFSS consists of an intercept survey of anglers in the field and a telephone survey of coastal county households. The intercept survey collects data on species composition, catch rates, and fish lengths and weights. The telephone survey collects data on the number of marine fishing trips. These independent data are combined to produce estimates of catch, effort, and participation. Catch is divided into three categories – **type A**, **type B1** and **type B2**. Type A catch is fish that were caught, landed whole and were available for identification, enumeration, weighing and measuring by trained MRFSS field personnel. Type B1 catch includes fish that were caught, filleted, released dead, given away, or disposed of in some other way so that the interviewer could not verify the species, sizes, or numbers reported. Fish that were caught and reported as released alive are in the Type B2 category. Estimates are generated by subregion, state, wave (bimonthly sampling period), species, mode, primary area fished and catch type. In addition, economic and demographic data are also obtained.

The MRFSS is being conducted in 1999 along the coast of the entire continental United States, except the state of Texas and Alaska. Sampling coverage varies across the time series (see coverage section). Detailed information and access to the data are available on the Fisheries Statistics and Economics web page (www.st.nmfs.gov/st1). Data from other NMFS and state surveys (SE head boats, Texas, California Passenger Fishing Vessels, Oregon/Washington ocean boats, Pacific salmon, Alaska) are not included in this report.

DATA TABLES. The estimated number of fish caught and weight of the harvest are presented for 128 commonly caught species. The estimated total harvest includes a) fish brought ashore in whole form that were identified, weighed, and measured (A1); and b) fish that were not available for identification (B1). The latter type includes fish used for bait, discarded, filleted or released alive. Harvest does not include fish that were released alive (B2). Estimated catch and harvest is presented by subregion and primary fishing area: inland [sounds, rivers, bays], state territorial seas [ocean to 3 miles from shore, except for Florida's Gulf coast, where state territorial seas extend to 10 miles from shore], and Exclusive Economic Zone (EEZ) [ocean from the edge of the state territorial seas to 200 miles from shore]. The total number of estimated trips and participants are presented by state.

1998 MRFSS DATA. In 1998, over 7.5 million people made 60 million marine recreational fishing trips to the Atlantic, Gulf and Pacific coasts. The estimated marine recreational finfish catch was 312 million fish. Over 55 percent of the number caught were released alive. The estimated total weight of the harvest was 195 million pounds.

The Atlantic and Gulf coasts accounted for 77 percent of the participants, 88 percent of the fishing trips, and 91 percent of the marine recreational finfish catch. Most (56 percent) of the catch came from inland waters, 34 percent from state territorial seas, and 10 percent from the EEZ. The distribution is different for the Atlantic and Gulf coasts versus the Pacific coast. On the Atlantic and Gulf the majority of the trips were from inland waters, while on the Pacific coast more trips were from the state territorial seas.

ATLANTIC AND GULF. In 1998, 5.8 million marine recreational fishing participants took 53 million trips and caught a total of 284 million fish. The estimated number of Atlantic and Gulf coast trips decreased from a five-year high of 61 million trips in 1997 to 53 million in 1998. The estimated number of people engaged in marine recreational fishing on the Atlantic and Gulf coast ranged from a low of 5.8 million in 1998 to a high of 7.6 million in 1994. By subregion, the Gulf of Mexico accounted for the highest numbers of fish caught (44 percent) followed by the Mid-Atlantic (29 percent). Thirty percent of the recreational fishing trips were made in the South Atlantic, 30 percent in the Gulf of Mexico, 27 percent in the Mid-Atlantic, and 13 percent in the North Atlantic.

U.S. RECREATIONAL FISHERIES

The most commonly caught non-bait species (numbers of fish) were Atlantic croaker, spotted sea trout, summer flounder, striped bass, bluefish, and black sea bass. Top-ranked non-bait species (catch in numbers) by subregion were striped bass in the North Atlantic, summer flounder in the Mid-Atlantic, spot in the South Atlantic, and spotted sea trout in the Gulf of Mexico. By weight, the largest harvests were striped bass, summer flounder, bluefish, dolphin, red drum, spotted sea trout, and king mackerel. The average weight for all fish combined was 1.4 pounds while the average weights for the top species were 2.9 pounds for bluefish, 9.3 for striped bass, 4.5 for red drum, 6.4 for dolphin, 1.2 for spotted sea trout, 1.8 for summer flounder, and 9.0 for king mackerel.

The catch of striped bass increased steadily and dramatically since 1990 with a catch of nearly 16.5 million fish in 1998. Over 91 percent of striped bass were released alive in 1998. Spotted sea trout, bluefish and Atlantic croaker catches remained relatively steady from 1994-1998. Summer flounder catches increased from 16 million in 1995 to nearly 22 million in 1998.

Ten percent of the catch on the Atlantic and Gulf coasts came from the EEZ. The most commonly caught species in federally managed waters were black sea bass, red snapper, summer flounder, dolphin, striped bass, bluefish and Atlantic cod.

PACIFIC. In 1998, 1.7 million marine recreational fishing participants took 7.0 million trips and caught a total of 28 million fish. Seventy percent of the trips were made in California, followed by 21 percent in Washington, and 9 percent in Oregon.

The most commonly caught non-bait species (numbers of fish) were Pacific (chub) mackerel, surf smelt, kelp bass, Pacific barracuda, black rockfish and barred sand bass. By weight, the largest harvests were yellowtail, black rockfish, Pacific barracuda, lingcod, California halibut and blue rockfish. The average weight for all fish combined was 1.7 pounds. Average weights for some of the top species were: 8.9 pounds for California halibut, 2.1 pounds for black rockfish, 8.5 pounds for yellowtail, 4.6 for Pacific barracuda and 8.0 pounds for lingcod.

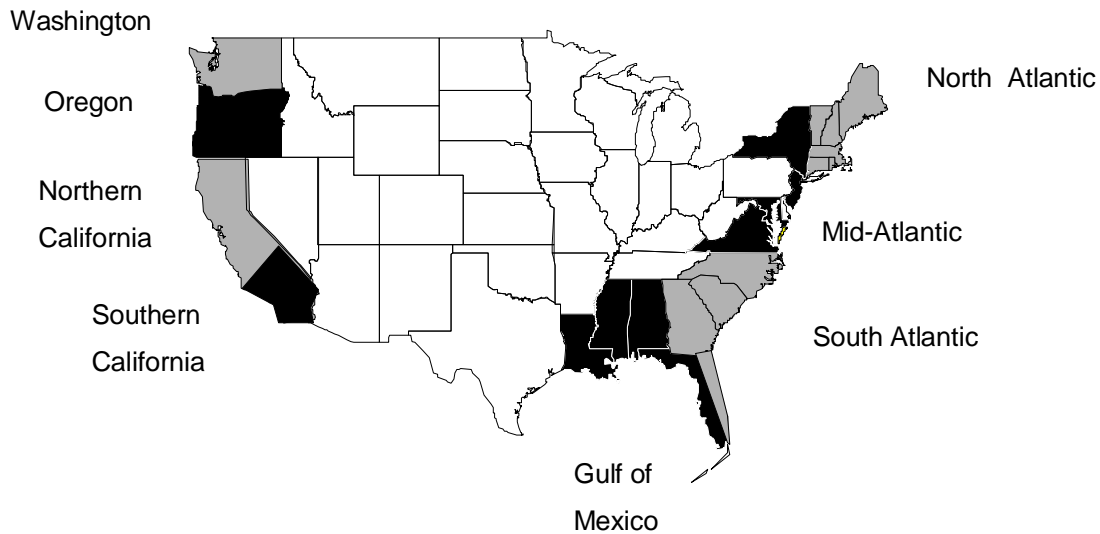
Surf smelt jumped from the 1993-1995 average of a little over a million fish to almost 5 million fish in 1998. Pacific barracuda catch has shown no real trend since 1994, ranging from a low of 584,000 fish in 1996 to a high of 1.8 million fish in 1994. Pacific mackerel reached a 4-year high in 1996 with 6.0 million fish caught.

Fifteen percent of the total marine recreational catch on the Pacific coast came from the EEZ. The most commonly caught Pacific coast species in federally managed waters were Pacific mackerel, yellowtail, Pacific barracuda, barred sand bass, blue rockfish, kelp bass, and yellowtail rockfish. The percent of the catch from the state territorial sea was about 43 percent in 1998, while the inland catch increased from 13-17 percent in the early 1990's to 42 percent for 1998.

U.S. MARINE RECREATIONAL FISHERIES

Coverage of MRFSS Survey 1979-1998

The Marine Recreational Fisheries Statistics Survey provides coverage of saltwater sport fishing (including estuarine and brackish water) from private/rental boats, charter and head boats, and the shore on the Atlantic Coast (Maine-East Florida), Gulf Coast (Louisiana-West Florida), and Pacific coast (Washington through California).



Special care is advised when comparing catch estimates for the MRFSS time series because of differences in sampling coverage.

- In the South Atlantic and Gulf sub-regions (NC-LA) the MRFSS has not collected catch data from head boats since 1985, so estimates for these sub-regions now only include charter boats in the for-hire sector.
- Marine recreational fishing in Texas is monitored by the Texas Department of Parks and Wildlife and has not been surveyed by the MRFSS since 1985.
- On the Pacific coast, ocean boat trips during certain waves (bimonthly sampling periods) and salmon trips are not sampled because they are surveyed by the state natural resource agencies.
- Alaska conducts an annual mail survey and has never been surveyed by the MRFSS.
- The U.S. Caribbean and West Pacific territories have not been surveyed by the MRFSS since 1981 and their data are not included in currently available data.

There are other exceptions where the following areas were not sampled during the period specified:

Exceptions to MRFSS Coverage:

Jan/Feb - All regions - 1981

Nov/Dec - ME & NH - 1987-present

CA-WA - 1990-1992

Jan/Feb - No.CA-OR - 1994

Nov/Dec - OR - 1994

Jan/Feb - ME-GA - 1982-present

Mar/Apr - ME & NH - 1996-present

WA - 1993-1994

Jan/Feb - So.CA-OR - 1995

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1997 AND 1998

| Species | 1997 | | | 1998 | | | Average (1993-97) Thousand pounds |
|-----------------------------|--------------------|----------------|---------------------------------|--------------------|----------------|---------------------------------|--|
| | Thousand pounds | Metric tons | Total Numbers (thousands) | Thousand pounds | Metric tons | Total Numbers (thousands) | |
| Anchovies** | | | | | | | |
| Northern Anchovy | (1) | (1) | 58 | (1) | (1) | (1) | (1) |
| Other Anchovies | (1) | (1) | (1) | - | - | - | (1) |
| Barracudas | 1,698 | 770 | 160 | 1,104 | 501 | 142 | 1,606 |
| Bluefish | 14,490 | 6,574 | 5,553 | 12,534 | 5,687 | 4,359 | 14,574 |
| California Scorpionfish | 206 | 93 | 243 | 185 | 84 | 160 | 242 |
| Cartilaginous Fishes | | | | | | | |
| Dogfish Sharks** | 546 | 248 | 157 | 545 | 247 | 166 | 427 |
| Skates/Rays** | 263 | 120 | 114 | 101 | 46 | 69 | 160 |
| Other Sharks** | 3,204 | 1,454 | 288 | 2,604 | 1,182 | 276 | 4,892 |
| Catfishes** | | | | | | | |
| Freshwater Catfishes | 560 | 254 | 312 | 783 | 355 | 444 | 634 |
| Saltwater Catfishes | 1,303 | 591 | 590 | 855 | 388 | 507 | 1,057 |
| Cods And Hakes | | | | | | | |
| Atlantic Cod | 2,621 | 1,189 | 474 | 2,952 | 1,339 | 463 | 3,558 |
| Pacific Cod | (1) | (1) | (1) | (1) | (1) | (1) | (1) |
| Pacific Hake | (1) | (1) | (1) | (1) | (1) | (1) | (1) |
| Pacific Tomcod | 5 | 2 | 16 | (1) | (1) | (1) | (1) |
| Pollock | 432 | 196 | 152 | 280 | 127 | 183 | 488 |
| Red Hake | 471 | 214 | 341 | 138 | 63 | 113 | 221 |
| Other Cods/Hakes | 119 | 54 | 58 | 151 | 69 | 77 | 160 |
| Croakers | | | | | | | |
| California Corbina | 15 | 7 | 13 | 32 | 15 | 15 | 27 |
| Queenfish | 9 | 4 | 40 | 10 | 5 | 42 | 22 |
| White Croaker | 328 | 149 | 583 | 162 | 74 | 434 | 346 |
| Other Croakers | 204 | 93 | 138 | 221 | 100 | 119 | 213 |
| Dolphins** | 22,740 | 10,317 | 2,255 | 11,778 | 5,344 | 1,829 | 15,935 |
| Drums | | | | | | | |
| Atlantic Croaker | 8,076 | 3,664 | 11,928 | 8,120 | 3,684 | 9,886 | 6,150 |
| Black Drum | 2,351 | 1,067 | 632 | 2,489 | 1,129 | 655 | 2,131 |
| Kingfishes | 1,936 | 878 | 3,155 | 1,573 | 714 | 2,740 | 1,742 |
| Red Drum | 12,807 | 5,811 | 2,503 | 9,445 | 4,285 | 2,107 | 11,584 |
| Sand Seatrout | 1,452 | 659 | 2,337 | 1,739 | 789 | 2,663 | 1,993 |
| Silver Perch | 41 | 19 | 226 | 162 | 74 | 549 | 128 |
| Spot | 2,702 | 1,226 | 6,321 | 2,971 | 1,348 | 6,781 | 3,053 |
| Spotted Seatrout | 10,805 | 4,903 | 8,972 | 9,377 | 4,255 | 7,613 | 10,893 |
| Weakfish** | 3,686 | 1,672 | 2,809 | 3,991 | 1,811 | 2,352 | 2,855 |
| Other Drum | 185 | 84 | 457 | 99 | 45 | 170 | 120 |
| Eels** | 16 | 7 | 24 | 2 | 1 | 12 | 11 |
| Flounders | | | | | | | |
| California Halibut** | 875 | 397 | 97 | 939 | 426 | 106 | 1,237 |
| Gulf Flounder | 424 | 192 | 283 | 203 | 92 | 152 | 225 |
| Rock Sole | 38 | 17 | 39 | 13 | 6 | 14 | 14 |
| Sanddabs | 155 | 70 | 446 | 99 | 45 | 259 | 108 |
| Southern Flounder | 1,483 | 673 | 934 | 1,112 | 505 | 746 | 1,457 |
| Starry Flounder | 9 | 4 | 9 | 19 | 9 | 17 | 11 |
| Summer Flounder | 11,878 | 5,389 | 7,178 | 12,567 | 5,702 | 6,965 | 9,941 |
| Winter Flounder | 1,500 | 681 | 1,271 | 700 | 318 | 631 | 1,391 |
| Other Flounders** | 798 | 362 | 135 | 858 | 389 | 174 | 447 |

See footnotes at end of table.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1997 AND 1998

| Species | 1997 | | | 1998 | | | Average (1993-97) Thousand pounds |
|-------------------------|--------------------|----------------|---------------------------------|--------------------|----------------|---------------------------------|--|
| | Thousand pounds | Metric tons | Total Numbers (thousands) | Thousand pounds | Metric tons | Total Numbers (thousands) | |
| Greenlings | | | | | | | |
| Kelp Greenling | 164 | 74 | 142 | 117 | 53 | 98 | 130 |
| Lingcod | 878 | 398 | 126 | 1,283 | 582 | 160 | 1,011 |
| Other Greenlings | 19 | 9 | 31 | 7 | 3 | 12 | 21 |
| Grunts | | | | | | | |
| Pigfish | 396 | 180 | 1,098 | 318 | 144 | 896 | 457 |
| White Grunt | 1,546 | 702 | 2,063 | 1,182 | 536 | 1,713 | 1,727 |
| Other Grunts | 582 | 264 | 1,275 | 288 | 131 | 672 | 343 |
| Herrings** | 1,853 | 841 | 35,647 | 915 | 415 | 25,443 | 1,109 |
| Jacks | | | | | | | |
| Blue Runner | 889 | 403 | 1,428 | 1,195 | 542 | 1,786 | 935 |
| Crevalle Jack | 1,575 | 715 | 939 | 772 | 350 | 449 | 1,404 |
| Florida Pompano | 458 | 208 | 384 | 632 | 287 | 486 | 380 |
| Greater Amberjack | 1,694 | 768 | 82 | 1,242 | 564 | 86 | 1,906 |
| Yellowtail | 3,233 | 1,467 | 648 | 5,697 | 2,585 | 673 | 2,037 |
| Other Jacks | 243 | 110 | 1,366 | 389 | 177 | 485 | 343 |
| Mulletts** | 2,410 | 1,093 | 2,792 | 2,410 | 1,093 | 2,842 | 2,362 |
| Pacific Barracuda | 1,699 | 771 | 374 | 2,057 | 933 | 450 | 1,854 |
| Porgies | | | | | | | |
| Pinfishes | 1,803 | 818 | 8,361 | 2,517 | 1,142 | 7,254 | 1,724 |
| Red Porgy | 85 | 39 | 79 | 66 | 30 | 69 | 136 |
| Scup** | 1,205 | 547 | 1,923 | 870 | 395 | 1,205 | 1,651 |
| Sheepshead | 4,850 | 2,201 | 2,056 | 4,012 | 1,820 | 1,606 | 5,411 |
| Other Porgies** | 393 | 178 | 385 | 106 | 48 | 157 | 216 |
| Puffers | 151 | 69 | 280 | 67 | 30 | 145 | 112 |
| Rockfishes | | | | | | | |
| Black Rockfish | 1,173 | 532 | 592 | 2,459 | 1,116 | 1,178 | 1,414 |
| Blue Rockfish | 651 | 296 | 651 | 859 | 390 | 841 | 596 |
| Bocaccio | 116 | 53 | 64 | 124 | 56 | 40 | 190 |
| Brown Rockfish | 109 | 50 | 99 | 92 | 42 | 81 | 92 |
| Canary Rockfish | 178 | 81 | 114 | 185 | 84 | 107 | 197 |
| Chilipepper Rockfish | 3 | (1) | (1) | (1) | (1) | (1) | 30 |
| Copper Rockfish | 166 | 75 | 98 | 241 | 109 | 157 | 210 |
| Greenspotted Rockfish | 32 | 14 | 42 | 33 | 15 | 40 | 91 |
| Olive Rockfish | 74 | 34 | 56 | 110 | 50 | 77 | 90 |
| Quillback Rockfish | 79 | 36 | 44 | 97 | 44 | 53 | 53 |
| Rockfishes | 56 | 25 | 69 | 78 | 35 | 102 | 95 |
| Widow Rockfish | 59 | 27 | 48 | 98 | 44 | 67 | 44 |
| Yellowtail Rockfish | 450 | 204 | 349 | 447 | 203 | 274 | 304 |
| Other Rockfishes** | 650 | 295 | 757 | 751 | 341 | 1,108 | 1,235 |
| Sablefishes | 15 | 7 | 2 | (1) | (1) | (1) | (1) |
| Sculpins | | | | | | | |
| Cabazon | 195 | 89 | 65 | 293 | 133 | 91 | 219 |
| Sculpins | 18 | 8 | 73 | 18 | 8 | 38 | 21 |
| Sea Bases | | | | | | | |
| Barred Sand Bass | 790 | 359 | 523 | 685 | 311 | 408 | 1,043 |
| Black Sea Bass | 5,074 | 2,302 | 5,696 | 1,656 | 751 | 1,684 | 4,929 |
| Epinephelus Groupers** | 910 | 413 | 147 | 975 | 442 | 153 | 1,462 |
| Kelp Bass | 767 | 348 | 467 | 511 | 232 | 326 | 930 |
| Mycteroperca Groupers** | 3,489 | 1,583 | 498 | 4,327 | 1,963 | 635 | 3,290 |
| Spotted Sand Bass | 66 | 30 | 52 | 22 | 10 | 17 | 76 |
| Other Sea Bases | 109 | 49 | 497 | 100 | 45 | 310 | 129 |

See footnotes at end of table.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1997 AND 1998

| Species | 1997 | | | 1998 | | | Average (1993-97) |
|-----------------------------|----------------------------|------------------------|--|----------------------------|------------------------|--|----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Total Numbers (thousands)</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Total Numbers (thousands)</u> | <u>Thousand pounds</u> |
| Sea Chubs** | | | | | | | |
| Halfmoon | 28 | 12 | 27 | - | - | - | 39 |
| Opaleye | 37 | 17 | 30 | - | - | - | 68 |
| Other Sea Chubs | (1) | (1) | (1) | - | - | - | (1) |
| Searobins | 242 | 110 | 238 | 105 | 48 | 200 | 126 |
| Silversides | | | | | | | |
| Jacksmelt | 162 | 73 | 422 | 149 | 68 | 366 | 203 |
| Other Silversides | 7 | 3 | 70 | 3 | 2 | 29 | 11 |
| Smelts** | | | | | | | |
| Surf Smelt | 120 | 54 | 1,616 | 357 | 162 | 4,825 | 233 |
| Other Smelts | (1) | (1) | (1) | - | - | - | (1) |
| Snappers | | | | | | | |
| Gray Snapper | 1,249 | 567 | 996 | 1,355 | 615 | 1,006 | 1,317 |
| Lane Snapper | 404 | 183 | 424 | 225 | 102 | 211 | 276 |
| Red Snapper | 4,543 | 2,061 | 1,152 | 4,136 | 1,876 | 1,253 | 3,655 |
| Vermilion Snapper | 415 | 188 | 401 | 310 | 141 | 275 | 464 |
| Yellowtail Snapper | 551 | 250 | 375 | 389 | 177 | 311 | 493 |
| Other Snappers** | 322 | 146 | 95 | 256 | 116 | 75 | 321 |
| Sturgeons | 549 | 249 | 20 | 566 | 257 | 32 | 500 |
| Surfperches | | | | | | | |
| Barred Surfperch | 231 | 105 | 331 | 534 | 242 | 646 | 316 |
| Black Perch | 54 | 24 | 57 | 62 | 28 | 94 | 54 |
| Pile Perch | 43 | 19 | 45 | 49 | 22 | 60 | 52 |
| Redtail Surfperch | 36 | 16 | 41 | 91 | 41 | 92 | 73 |
| Shiner Perch | 13 | 6 | 231 | 4 | 2 | 85 | 10 |
| Silver Surfperch | 27 | 12 | 82 | 12 | 5 | 43 | 17 |
| Striped Seaperch | 104 | 47 | 110 | 179 | 81 | 199 | 127 |
| Walleye Surfperch | 50 | 23 | 159 | 15 | 7 | 59 | 34 |
| White Seaperch | 10 | 4 | 24 | 5 | 2 | 22 | 11 |
| Other Surfperches | 72 | 33 | 99 | 55 | 25 | 135 | 55 |
| Temperate Basses | | | | | | | |
| Striped Bass | 16,448 | 7,463 | 1,620 | 13,379 | 6,071 | 1,472 | 12,674 |
| White Perch | 1,150 | 522 | 2,679 | 608 | 276 | 1,816 | 808 |
| Other Temperate Basses | (1) | (1) | (1) | 7 | 3 | 6 | (1) |
| Toadfishes | (1) | (1) | 33 | 2 | 1 | 10 | (1) |
| Triggerfishes/Filefishes | 1,076 | 488 | 506 | 689 | 312 | 349 | 1,057 |
| Tunas And Mackerels | | | | | | | |
| Atlantic Mackerel | 3,825 | 1,736 | 4,548 | 1,506 | 684 | 1,859 | 2,993 |
| King Mackerel** | 11,918 | 5,407 | 1,163 | 8,305 | 3,768 | 921 | 9,755 |
| Little Tunny / Atl.Bonito** | 3,381 | 1,534 | 394 | 2,699 | 1,225 | 347 | 3,127 |
| Pacific Bonito** | 422 | 191 | 114 | 347 | 157 | 71 | 311 |
| Spanish Mackerel | 3,532 | 1,602 | 2,245 | 2,865 | 1,300 | 1,727 | 2,936 |
| Other Tunas/Mackerels** | 17,802 | 8,077 | 2,967 | 13,773 | 6,249 | 2,129 | 16,623 |
| Wrasses | | | | | | | |
| California Sheephead | 114 | 52 | 35 | 153 | 69 | 47 | 157 |
| Cunner | 33 | 15 | 94 | 10 | 4 | 94 | 54 |
| Tautog | 2,196 | 996 | 698 | 1,448 | 657 | 351 | 2,996 |
| Other Wrasses | 240 | 109 | 98 | 95 | 43 | 63 | 235 |
| Other Fishes** | 10,932 | 4,960 | 5,557 | 6,824 | 3,096 | 5,646 | 17,461 |
| Total Fish | 234,128 | 106,226 | 163,585 | 194,628 | 88,308 | 135,517 | -- |

(1) Number of fish less than or equal to 10,000 or less than 1 metric ton.

NOTE:-- ** Fish included in these groups are not equivalent to those with similar names listed in the commercial tables.

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1998

| Species | Mode of fishing | | | | | | Charter boat | | | Private/Rental boat | | | Shore | | | Grand Total | | |
|--------------------------------|-----------------|---------------|---------------------------|---------------------|---------------|---------------------------|-----------------|--------------|---------------------------|---------------------|---------------|---------------------------|-----------------|-------------|---------------------------|-----------------|-------------|---------------------------|
| | Charter boat | | | Private/Rental boat | | | Charter boat | | | Private/Rental boat | | | Shore | | | Grand Total | | |
| | Thousand pounds | Metric tons | Total Numbers (thousands) | Thousand pounds | Metric tons | Total Numbers (thousands) | Thousand pounds | Metric tons | Total Numbers (thousands) | Thousand pounds | Metric tons | Total Numbers (thousands) | Thousand pounds | Metric tons | Total Numbers (thousands) | Thousand pounds | Metric tons | Total Numbers (thousands) |
| Snappers | | | | | | | | | | | | | | | | | | |
| Gray Snapper | 225 | 102 | 91 | 898 | 407 | 698 | 232 | 105 | 217 | 1,355 | 614 | 1,006 | | | | | | |
| Lane Snapper | 52 | 24 | 51 | 169 | 77 | 157 | (1) | (1) | (1) | 224 | 102 | 211 | | | | | | |
| Red Snapper | 3,013 | 1,367 | 1,013 | 1,122 | 509 | 240 | (1) | (1) | (1) | 4,135 | 1,876 | 1,253 | | | | | | |
| Vermilion Snapper | 284 | 129 | 249 | 26 | 12 | 27 | - | - | - | 310 | 141 | 276 | | | | | | |
| Yellowtail Snapper | 163 | 74 | 137 | 227 | 103 | 174 | (1) | (1) | (1) | 390 | 177 | 311 | | | | | | |
| Other Snappers** | 67 | 31 | 19 | 164 | 74 | 48 | (1) | (1) | (1) | 256 | 116 | 75 | | | | | | |
| Sturgeons | (1) | (1) | (1) | 514 | 233 | 30 | (1) | (1) | (1) | 566 | 257 | 32 | | | | | | |
| Surfperches | | | | | | | | | | | | | | | | | | |
| Barred Surfperch | - | - | - | (1) | (1) | (1) | 532 | 241 | 644 | 534 | 242 | 646 | | | | | | |
| Black Perch | (1) | (1) | (1) | 16 | 7 | 29 | 45 | 20 | 65 | 61 | 27 | 94 | | | | | | |
| Pile Perch | - | - | - | 20 | 9 | 23 | 29 | 13 | 37 | 49 | 22 | 60 | | | | | | |
| Redtail Surfperch | - | - | - | (1) | (1) | (1) | 91 | 41 | 92 | 91 | 41 | 92 | | | | | | |
| Shiner Perch | - | - | - | (1) | (1) | (1) | 4 | 2 | 84 | 4 | 2 | 86 | | | | | | |
| Silver Surfperch | - | - | - | (1) | (1) | (1) | 11 | 5 | 41 | 12 | 5 | 43 | | | | | | |
| Striped Seaperch | - | - | - | 17 | 8 | 23 | 162 | 74 | 176 | 179 | 82 | 199 | | | | | | |
| Walleye Surfperch | - | - | - | (1) | (1) | (1) | 15 | 7 | 57 | 16 | 7 | 59 | | | | | | |
| White Seaperch | - | - | - | (1) | (1) | (1) | 4 | 2 | 18 | 4 | 2 | 22 | | | | | | |
| Other Surfperches | (1) | (1) | (1) | 14 | 6 | 15 | 41 | 19 | 118 | 55 | 25 | 134 | | | | | | |
| Temperate Basses | | | | | | | | | | | | | | | | | | |
| Striped Bass | 1,928 | 875 | 188 | 10,107 | 4,586 | 1,149 | 1,345 | 610 | 135 | 13,380 | 6,071 | 1,472 | | | | | | |
| White Perch | (1) | (1) | (1) | 416 | 189 | 1,123 | 191 | 87 | 691 | 607 | 276 | 1,815 | | | | | | |
| Other Temperate Basses | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | | | | | | |
| Toadfishes | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | 2 | 1 | 10 | | | | | | |
| Triggerfishes/Filefishes | 396 | 179 | 201 | 277 | 126 | 139 | (1) | (1) | (1) | 689 | 312 | 349 | | | | | | |
| Tunas And Mackerels | | | | | | | | | | | | | | | | | | |
| Atlantic Mackerel | 240 | 109 | 248 | 1,121 | 508 | 1,266 | 145 | 66 | 345 | 1,506 | 683 | 1,859 | | | | | | |
| King Mackerel** | 4,958 | 2,250 | 518 | 3,255 | 1,477 | 326 | 92 | 42 | 77 | 8,305 | 3,769 | 921 | | | | | | |
| Little Tunny/Atlantic Bonito** | 1,821 | 826 | 229 | 871 | 395 | 117 | (1) | (1) | (1) | 2,700 | 1,224 | 347 | | | | | | |
| Pacific Bonito** | 167 | 76 | 34 | 169 | 77 | 35 | (1) | (1) | (1) | 347 | 158 | 71 | | | | | | |
| Spanish Mackerel | 391 | 178 | 210 | 1,554 | 705 | 809 | 920 | 417 | 707 | 2,865 | 1,300 | 1,726 | | | | | | |
| Other Tunas/Mackerels** | 8,174 | 3,709 | 729 | 5,321 | 2,414 | 809 | 278 | 126 | 591 | 13,773 | 6,249 | 2,129 | | | | | | |
| Wrasses | | | | | | | | | | | | | | | | | | |
| California Sheephead | 36 | 16 | 17 | 113 | 51 | 30 | (1) | (1) | (1) | 153 | 69 | 49 | | | | | | |
| Cunner | (1) | (1) | (1) | 2 | 1 | 19 | 5 | 2 | 67 | 9 | 4 | 94 | | | | | | |
| Tautog | 244 | 111 | 55 | 1,040 | 472 | 255 | 164 | 75 | 41 | 1,448 | 658 | 351 | | | | | | |
| Other Wrasses | (1) | (1) | (1) | 91 | 41 | 59 | (1) | (1) | (1) | 96 | 43 | 63 | | | | | | |
| Other Fishes** | 1,163 | 528 | 205 | 6,639 | 3,012 | 3,454 | 750 | 340 | 1,987 | 8,552 | 3,880 | 5,646 | | | | | | |
| Grand Total | 51,381 | 23,318 | 13,425 | 121,537 | 55,145 | 82,404 | 21,711 | 9,847 | 39,688 | 194,629 | 88,310 | 135,517 | | | | | | |

(1) Number of fish less than or equal to 10,000 or less than 1 metric ton.

NOTE:-- ** Fish included in these groups are not equivalent to those with names listed in the commercial tables.

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1998

| Species | Distance from U.S. shores | | | | | | Grand Total | | |
|-----------------------------|---------------------------|-------------|--|-----------------|---|---------------------------|-----------------|-------------|---------------------------|
| | Inland | | 0 to 3 miles ¹ (State Territorial Sea) | | 3 to 200 miles (Exclusive Economic Zone) | | Thousand Pounds | Metric Tons | Total Numbers (thousands) |
| | Thousand Pounds | Metric Tons | Total Numbers (thousands) | Thousand Pounds | Metric Tons | Total Numbers (thousands) | | | |
| Northern Anchovy | (2) | (2) | (2) | (2) | - | - | (2) | (2) | (2) |
| Barracudas | 133 | 60 | 40 | 182 | 571 | 259 | 1,104 | 501 | 142 |
| Bluefish | 5,180 | 2,350 | 2,228 | 1,845 | 3,287 | 1,492 | 12,534 | 5,687 | 4,359 |
| California Scorpionfish | (2) | (2) | (2) | 43 | 81 | 37 | 185 | 84 | 160 |
| Cartilaginous Fishes | | | | | | | | | |
| Dogfish Sharks** | 467 | 212 | 137 | 8 | 60 | 27 | 545 | 247 | 166 |
| Skates/Rays** | 41 | 19 | 46 | 24 | 53 | (2) | 101 | 46 | 69 |
| Other Sharks** | 604 | 274 | 127 | 275 | 1,395 | 633 | 2,604 | 1,182 | 276 |
| Catfishes** | | | | | | | | | |
| Freshwater Catfishes | 767 | 348 | 432 | 7 | 16 | - | 783 | 355 | 445 |
| Saltwater Catfishes | 527 | 239 | 309 | 147 | 323 | (2) | 854 | 388 | 507 |
| Cods And Hakes | | | | | | | | | |
| Atlantic Cod | (2) | (2) | (2) | 88 | 195 | 1,239 | 2,952 | 1,339 | 463 |
| Pacific Cod | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| Pacific Hake | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| Pacific Tomcod | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| Pollock | 145 | 66 | 48 | 15 | 34 | 46 | 280 | 127 | 183 |
| Red Hake | (2) | (2) | (2) | 5 | 12 | 57 | 138 | 62 | 113 |
| Other Cods/Hakes | 7 | 3 | 26 | (2) | (2) | 64 | 151 | 68 | 77 |
| Croakers | | | | | | | | | |
| California Corbina | (2) | (2) | (2) | 13 | 30 | - | 32 | 14 | 15 |
| Queenfish | 7 | 3 | 25 | 2 | 3 | - | 10 | 5 | 43 |
| White Croaker | 105 | 47 | 275 | 24 | 54 | (2) | 163 | 73 | 434 |
| Other Croakers | 10 | 5 | 14 | 82 | 180 | 31 | 221 | 101 | 119 |
| Dolphins** | 106 | 48 | 20 | 181 | 400 | 109 | 11,778 | 5,343 | 1,829 |
| Drums | | | | | | | | | |
| Atlantic Croaker | 7,248 | 3,289 | 8,535 | 232 | 511 | 164 | 8,119 | 3,685 | 9,886 |
| Black Drum | 1,911 | 867 | 492 | 227 | 500 | 78 | 2,489 | 1,130 | 655 |
| Kingfishes | 586 | 266 | 1,033 | 424 | 935 | 24 | 1,573 | 714 | 2,739 |
| Red Drum | 6,853 | 3,109 | 1,707 | 966 | 2,130 | 461 | 9,444 | 4,284 | 2,106 |
| Sand Seatrout | 1,336 | 606 | 2,031 | 144 | 316 | 87 | 1,739 | 790 | 2,662 |
| Silver Perch | 89 | 40 | 295 | 33 | 74 | * | 163 | 73 | 549 |
| Spot | 1,917 | 870 | 4,049 | 457 | 1,007 | 46 | 2,970 | 1,348 | 6,781 |
| Spotted Seatrout | 6,774 | 3,074 | 5,710 | 1,052 | 2,318 | 285 | 9,377 | 4,255 | 7,614 |
| Weakfish** | 2,945 | 1,336 | 1,765 | 419 | 922 | 124 | 3,991 | 1,811 | 2,352 |
| Other Drum | 76 | 34 | 104 | 10 | 22 | (2) | 100 | 45 | 170 |
| Eels** | 1 | (2) | 10 | (2) | (2) | (2) | 2 | 1 | 13 |

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1998

| Species | Distance from U.S. shores | | | | | | | | | | | |
|----------------------|---------------------------|-------------|---------------------------|--|-------------|---------------------------|---|-------------|---------------------------|-----------------|-------------|---------------------------|
| | Inland | | | 0 to 3 miles ¹ (State Territorial Sea) | | | 3 to 200 miles (Exclusive Economic Zone) | | | Grand Total | | |
| | Thousand Pounds | Metric Tons | Total Numbers (thousands) | Thousand Pounds | Metric Tons | Total Numbers (thousands) | Thousand Pounds | Metric Tons | Total Numbers (thousands) | Thousand Pounds | Metric Tons | Total Numbers (thousands) |
| Flounders | | | | | | | | | | | | |
| California Halibut** | 415 | 188 | 45 | 451 | 205 | 52 | (2) | (2) | (2) | 939 | 426 | 106 |
| Gulf Flounder | 98 | 44 | 77 | 95 | 43 | 69 | (2) | (2) | (2) | 204 | 92 | 152 |
| Rock Sole | 13 | 6 | 13 | (2) | (2) | (2) | (2) | (2) | (2) | 13 | 6 | 13 |
| Sanddabs | 74 | 34 | 178 | 18 | 8 | 56 | 8 | 3 | 24 | 100 | 45 | 258 |
| Southern Flounder | 803 | 364 | 553 | 290 | 132 | 185 | (2) | (2) | (2) | 1,112 | 505 | 747 |
| Stary Flounder | 17 | 8 | 16 | (2) | (2) | (2) | (2) | (2) | (2) | 19 | 9 | 17 |
| Summer Flounder | 8,996 | 4,082 | 5,042 | 2,814 | 1,277 | 1,492 | 757 | 343 | 431 | 12,567 | 5,702 | 6,965 |
| Winter Flounder | 610 | 277 | 552 | 58 | 26 | 44 | 32 | 14 | 35 | 700 | 317 | 631 |
| Other Flounders** | 502 | 228 | 101 | 42 | 19 | 53 | 314 | 142 | 20 | 858 | 389 | 174 |
| Greenlings | | | | | | | | | | | | |
| Kelp Greenling | 79 | 36 | 61 | 36 | 16 | 33 | (2) | (2) | (2) | 118 | 54 | 97 |
| Lingcod | 319 | 145 | 39 | 639 | 290 | 83 | 326 | 148 | 38 | 1,284 | 583 | 160 |
| Other Greenlings | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | 7 | 4 | 12 |
| Grunts | | | | | | | | | | | | |
| Pigfish | 210 | 95 | 583 | 90 | 41 | 262 | 18 | 8 | 51 | 318 | 144 | 896 |
| White Grunt | 280 | 127 | 469 | 391 | 178 | 531 | 510 | 231 | 712 | 1,181 | 536 | 1,712 |
| Other Grunts | 55 | 25 | 114 | 217 | 98 | 492 | 16 | 7 | 65 | 288 | 130 | 671 |
| Herrings** | 802 | 364 | 19,377 | 110 | 50 | 5,216 | 3 | 2 | 850 | 915 | 416 | 25,443 |
| Jacks | | | | | | | | | | | | |
| Blue Runner | 484 | 220 | 741 | 511 | 232 | 760 | 200 | 91 | 284 | 1,195 | 543 | 1,785 |
| Crevalle Jack | 374 | 169 | 240 | 362 | 164 | 189 | 36 | 16 | 20 | 772 | 349 | 449 |
| Florida Pompano | 331 | 150 | 213 | 301 | 137 | 272 | (2) | (2) | (2) | 632 | 287 | 485 |
| Greater Amberjack | 19 | 9 | 16 | (2) | (2) | (2) | 1,123 | 509 | 62 | 1,242 | 563 | 86 |
| Yellowtail | (2) | (2) | (2) | 1,501 | 681 | 170 | 4,139 | 1,878 | 494 | 5,696 | 2,584 | 673 |
| Other Jacks | 73 | 33 | 134 | 162 | 74 | 190 | 154 | 70 | 161 | 389 | 177 | 485 |
| Mullet** | 1,618 | 734 | 1,956 | 756 | 343 | 821 | 35 | 16 | 65 | 2,409 | 1,093 | 2,842 |
| Pacific Barracuda | (2) | (2) | (2) | 1,139 | 517 | 251 | 899 | 408 | 195 | 2,057 | 934 | 451 |
| Porgies | | | | | | | | | | | | |
| Pinfishes | 1,710 | 776 | 4,502 | 657 | 298 | 2,205 | 150 | 68 | 547 | 2,517 | 1,142 | 7,254 |
| Red Porgy | - | - | - | 17 | 8 | 18 | 49 | 22 | 51 | 66 | 30 | 69 |
| Scup** | 550 | 249 | 866 | 157 | 71 | 207 | 163 | 74 | 132 | 870 | 394 | 1,205 |
| Sheepshead | 3,068 | 1,392 | 1,256 | 820 | 372 | 316 | 125 | 57 | 34 | 4,013 | 1,821 | 1,606 |
| Other Porgies** | 33 | 15 | 67 | 37 | 17 | 61 | 35 | 16 | 28 | 105 | 48 | 156 |
| Puffers | 53 | 24 | 111 | 13 | 6 | 30 | (2) | (2) | (2) | 67 | 31 | 145 |

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1998

| Species | Distance from U.S. shores | | | | | | | | | | | |
|-----------------------|---------------------------|-------------|---------------------------|--|-------------|---------------------------|---|-------------|---------------------------|-----------------|-------------|---------------------------|
| | Inland | | | 0 to 3 miles ¹ (State Territorial Sea) | | | 3 to 200 miles (Exclusive Economic Zone) | | | Grand Total | | |
| | Thousand Pounds | Metric Tons | Total Numbers (thousands) | Thousand Pounds | Metric Tons | Total Numbers (thousands) | Thousand Pounds | Metric Tons | Total Numbers (thousands) | Thousand Pounds | Metric Tons | Total Numbers (thousands) |
| Rockfishes | | | | | | | | | | | | |
| Black Rockfish | 450 | 204 | 137 | 1,652 | 750 | 874 | 356 | 162 | 168 | 2,458 | 1,116 | 1,179 |
| Blue Rockfish | (2) | (2) | (2) | 598 | 271 | 575 | 258 | 117 | 262 | 860 | 390 | 841 |
| Bocaccio | (2) | (2) | (2) | 27 | 12 | 12 | 97 | 44 | 28 | 125 | 56 | 40 |
| Brown Rockfish | (2) | (2) | (2) | 65 | 30 | 58 | 21 | 9 | 17 | 92 | 42 | 80 |
| Canary Rockfish | (2) | (2) | (2) | 67 | 30 | 53 | 108 | 49 | 51 | 185 | 83 | 107 |
| Chillipepper Rockfish | - | - | - | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| Copper Rockfish | 130 | 59 | 92 | 83 | 38 | 51 | 27 | 12 | 14 | 240 | 109 | 157 |
| Greenspotted Rockfish | (2) | (2) | (2) | (2) | (2) | (2) | 29 | 13 | 35 | 33 | 14 | 41 |
| Olive Rockfish | (2) | (2) | (2) | 68 | 31 | 46 | 42 | 19 | 30 | 110 | 50 | 77 |
| Quillback Rockfish | 76 | 34 | 42 | (2) | (2) | (2) | (2) | (2) | (2) | 96 | 44 | 53 |
| Rockfishes | 6 | 3 | 10 | 60 | 27 | 74 | 12 | 5 | 18 | 78 | 35 | 102 |
| Widow Rockfish | (2) | (2) | (2) | (2) | (2) | (2) | 92 | 42 | 64 | 98 | 45 | 67 |
| Yellowtail Rockfish | (2) | (2) | (2) | 96 | 44 | 74 | 342 | 155 | 196 | 447 | 203 | 273 |
| Other Rockfishes** | 54 | 25 | 32 | 337 | 153 | 516 | 360 | 163 | 560 | 751 | 341 | 1,108 |
| Sablefishes | - | - | - | - | - | - | (2) | (2) | (2) | (2) | (2) | (2) |
| Sculpins | | | | | | | | | | | | |
| Cabezon | 95 | 43 | 34 | 170 | 77 | 50 | (2) | (2) | (2) | 294 | 133 | 92 |
| Sculpins | 13 | 6 | 33 | (2) | (2) | (2) | (2) | (2) | (2) | 17 | 8 | 38 |
| Sea Basses | | | | | | | | | | | | |
| Barred Sand Bass | 64 | 29 | 44 | 373 | 169 | 220 | 249 | 113 | 144 | 686 | 311 | 408 |
| Black Sea Bass | 99 | 45 | 117 | 191 | 87 | 215 | 1,366 | 620 | 1,352 | 1,656 | 752 | 1,684 |
| Epinephelus Groupers | (2) | (2) | (2) | 94 | 43 | 21 | 832 | 378 | 124 | 974 | 443 | 152 |
| Kelp Bass | 25 | 11 | 17 | 393 | 178 | 251 | 93 | 42 | 58 | 511 | 231 | 326 |
| Mycteroperca Groupers | 507 | 230 | 107 | 823 | 373 | 135 | 2,997 | 1,360 | 394 | 4,327 | 1,963 | 636 |
| Spotted Sand Bass | 18 | 8 | 14 | (2) | (2) | (2) | (2) | (2) | (2) | 22 | 10 | 17 |
| Other Sea Basses | 14 | 6 | 64 | 42 | 19 | 108 | 44 | 20 | 138 | 100 | 45 | 310 |
| Sea Chubs** | | | | | | | | | | | | |
| Halfmoon | (2) | (2) | (2) | 10 | 5 | 10 | (2) | (2) | (2) | 15 | 7 | 20 |
| Opaleye | 16 | 7 | 23 | 56 | 25 | 64 | - | - | - | 72 | 32 | 87 |
| Searobins | 70 | 32 | 95 | 29 | 13 | 97 | (2) | (2) | (2) | 105 | 48 | 200 |
| Silversides | | | | | | | | | | | | |
| Jacksnelt | 125 | 57 | 291 | 23 | 11 | 74 | (2) | (2) | (2) | 148 | 68 | 366 |
| Other Silversides | 1 | (2) | 10 | 3 | 1 | 19 | - | - | - | 4 | 1 | 29 |
| Surf Smelt | 151 | 69 | 2,419 | 206 | 94 | 2,406 | - | - | - | 357 | 163 | 4,825 |

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1998

| Species | Distance from U.S. shores | | | | | | | | | | | |
|--------------------------------|---------------------------|---------------|---------------------------|---|---------------|---------------------------|---|---------------|---------------------------|-----------------|---------------|---------------------------|
| | Inland | | | 0 to 3 miles (1) (State Territorial Sea) | | | 3 to 200 miles (Exclusive Economic Zone) | | | Grand Total | | |
| | Thousand Pounds | Metric Tons | Total Numbers (thousands) | Thousand Pounds | Metric Tons | Total Numbers (thousands) | Thousand Pounds | Metric Tons | Total Numbers (thousands) | Thousand Pounds | Metric Tons | Total Numbers (thousands) |
| Snappers | | | | | | | | | | | | |
| Gray Snapper | 439 | 199 | 474 | 554 | 251 | 387 | 362 | 164 | 146 | 1,355 | 614 | 1,007 |
| Lane Snapper | 39 | 18 | 39 | 120 | 55 | 97 | 65 | 30 | 75 | 224 | 103 | 211 |
| Red Snapper | (2) | (2) | (2) | 849 | 385 | 258 | 3,261 | 1,480 | 991 | 4,135 | 1,876 | 1,254 |
| Vermillion Snapper | (2) | (2) | (2) | 38 | 17 | 39 | 273 | 124 | 236 | 311 | 141 | 275 |
| Yellowtail Snapper | (2) | (2) | (2) | 197 | 89 | 137 | 192 | 87 | 174 | 389 | 176 | 311 |
| Other Snappers** | 64 | 29 | 27 | 86 | 39 | 23 | 106 | 48 | 26 | 256 | 116 | 76 |
| Sturgeons | 390 | 177 | 24 | (2) | (2) | (2) | (2) | (2) | (2) | 567 | 257 | 32 |
| Surfperches | | | | | | | | | | | | |
| Barred Surfperch | 65 | 30 | 74 | 469 | 213 | 572 | - | - | - | 534 | 243 | 646 |
| Black Perch | 42 | 19 | 64 | 18 | 8 | 28 | (2) | (2) | (2) | 61 | 28 | 95 |
| Pile Perch | 46 | 21 | 56 | (2) | (2) | (2) | (2) | (2) | (2) | 48 | 22 | 60 |
| Redtail Surfperch | 10 | 4 | 14 | 81 | 37 | 78 | - | - | - | 91 | 41 | 92 |
| Shiner Perch | 3 | 1 | 61 | 1 | (2) | 24 | - | - | - | 4 | 1 | 85 |
| Silver Surfperch | (2) | (2) | (2) | 10 | 5 | 35 | - | - | - | 12 | 6 | 43 |
| Striped Seaperch | 88 | 40 | 120 | 91 | 41 | 79 | (2) | (2) | (2) | 179 | 81 | 199 |
| Walleye Surfperch | 6 | 3 | 18 | 10 | 4 | 41 | (2) | (2) | (2) | 16 | 7 | 59 |
| White Seaperch | 4 | 2 | 15 | (2) | (2) | (2) | (2) | (2) | (2) | 5 | 3 | 22 |
| Other Surfperches | 30 | 14 | 64 | 25 | 11 | 68 | (2) | (2) | (2) | 55 | 25 | 135 |
| Temperate Bases | | | | | | | | | | | | |
| Striped Bass | 8,046 | 3,651 | 1,069 | 3,844 | 1,744 | 286 | 1,490 | 676 | 117 | 13,380 | 6,071 | 1,472 |
| White Perch | 596 | 271 | 1,810 | (2) | (2) | (2) | (2) | (2) | (2) | 607 | 276 | 1,816 |
| Other Temperate Bases | (2) | (2) | (2) | - | - | - | (2) | (2) | (2) | (2) | (2) | (2) |
| Toadfishes | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | 2 | 1 | 10 |
| Triggerfishes/Filefishes | 41 | 19 | 19 | 247 | 112 | 137 | 400 | 181 | 193 | 689 | 312 | 349 |
| Tunas And Mackerels | | | | | | | | | | | | |
| Atlantic Mackerel | 662 | 300 | 822 | 364 | 165 | 472 | 480 | 218 | 565 | 1,506 | 683 | 1,859 |
| King Mackerel** | 135 | 61 | 15 | 2,679 | 1,216 | 344 | 5,491 | 2,491 | 561 | 8,305 | 3,768 | 920 |
| Little Tunny/Atlantic Bonito** | 136 | 62 | 18 | 939 | 426 | 118 | 1,625 | 737 | 211 | 2,700 | 1,225 | 347 |
| Pacific Bonito** | (2) | (2) | (2) | 163 | 74 | 34 | 179 | 81 | 37 | 347 | 157 | 72 |
| Spanish Mackerel | 782 | 355 | 598 | 1,421 | 645 | 818 | 663 | 301 | 310 | 2,866 | 1,301 | 1,726 |
| Other Tunas/Mackerels** | 312 | 142 | 278 | 1,009 | 458 | 763 | 12,452 | 5,650 | 1,088 | 13,773 | 6,250 | 2,129 |
| Wrasses | | | | | | | | | | | | |
| California Sheephead | (2) | (2) | (2) | 129 | 58 | 36 | 22 | 10 | 12 | 153 | 69 | 49 |
| Cunner | 7 | 3 | 73 | (2) | (2) | 13 | (2) | (2) | (2) | 10 | 4 | 94 |
| Tautog | 782 | 355 | 219 | 368 | 167 | 74 | 298 | 135 | 57 | 1,448 | 657 | 350 |
| Other Wrasses | (2) | (2) | (2) | 33 | 15 | 22 | 60 | 27 | 34 | 95 | 43 | 62 |
| Other Fishes** | 3,306 | 1,500 | 3,837 | 2,989 | 1,356 | 1,078 | 2,257 | 1,024 | 731 | 8,552 | 3,880 | 5,646 |
| Total Fish | 77,609 | 35,212 | 80,270 | 49,417 | 22,423 | 37,441 | 67,601 | 30,674 | 17,802 | 194,627 | 88,309 | 135,513 |

(1) Except West Florida where the state territorial seas extend 0 to 10 miles. (2) Number of fish less than or equal to 10,000 or less than 1 metric ton.

NOTE:-- ** Fish included in these groups are not equivalent to those with similar names listed in the commercial tables.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1989-1998

| Year | Barracudas | | | Bluefish | | |
|------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|---------------------------------------|
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1989 | 857 | 99 | 409 | 40,973 | 14,100 | 5,415 |
| 1990 | 1,225 | 158 | 301 | 30,905 | 11,567 | 5,306 |
| 1991 | 1,349 | 227 | 755 | 33,957 | 12,420 | 6,831 |
| 1992 | 1,105 | 173 | 627 | 24,775 | 7,479 | 4,511 |
| 1993 | 1,323 | 196 | 592 | 20,636 | 5,917 | 4,384 |
| 1994 | 1,656 | 211 | 695 | 15,988 | 6,056 | 6,349 |
| 1995 | 1,623 | 243 | 665 | 14,771 | 5,371 | 5,568 |
| 1996 | 1,951 | 228 | 604 | 15,085 | 4,779 | 5,592 |
| 1997 | 1,698 | 160 | 428 | 14,490 | 5,553 | 7,549 |
| 1998 | 1,104 | 142 | 381 | 12,534 | 4,359 | 5,248 |

| Year | Cartilaginous Fishes | | | Catfishes | | |
|------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|---------------------------------------|
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1989 | 8,558 | 904 | 3,652 | 1,859 | 1,756 | 11,126 |
| 1990 | 4,983 | 640 | 3,253 | 2,285 | 1,774 | 12,642 |
| 1991 | 2,467 | 681 | 4,068 | 3,770 | 2,479 | 16,741 |
| 1992 | 5,075 | 545 | 4,113 | 2,180 | 1,704 | 12,862 |
| 1993 | 5,293 | 645 | 4,707 | 2,159 | 1,764 | 12,018 |
| 1994 | 4,349 | 597 | 5,903 | 1,886 | 1,595 | 14,223 |
| 1995 | 10,635 | 590 | 5,354 | 1,527 | 1,237 | 13,289 |
| 1996 | 5,149 | 554 | 6,084 | 1,544 | 983 | 8,084 |
| 1997 | 4,013 | 559 | 6,725 | 1,863 | 902 | 10,532 |
| 1998 | 3,250 | 511 | 6,610 | 1,638 | 952 | 7,529 |

| Year | Cods and Hakes | | | Dolphins | | |
|------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|---------------------------------------|
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1989 | 9,374 | 3,261 | 1,379 | 13,495 | 2,678 | 245 |
| 1990 | 9,749 | 3,254 | 1,038 | 12,773 | 1,840 | 85 |
| 1991 | 10,562 | 2,803 | 950 | 17,205 | 2,618 | 524 |
| 1992 | 2,994 | 1,178 | 472 | 9,788 | 1,318 | 166 |
| 1993 | 7,485 | 1,954 | 1,477 | 10,894 | 1,762 | 177 |
| 1994 | 5,123 | 1,636 | 1,590 | 12,795 | 2,215 | 236 |
| 1995 | 5,823 | 1,623 | 1,603 | 19,787 | 2,280 | 333 |
| 1996 | 4,048 | 883 | 828 | 12,573 | 1,675 | 233 |
| 1997 | 3,650 | 1,041 | 782 | 22,740 | 2,255 | 231 |
| 1998 | 3,524 | 841 | 1,036 | 11,778 | 1,829 | 178 |

See footnotes at end of table.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1989-1998

| Year | Drums | | | Flounders | | |
|------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|---------------------------------------|
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1989 | 35,336 | 34,844 | 24,150 | 9,915 | 8,393 | 4,390 |
| 1990 | 23,936 | 30,262 | 31,030 | 9,854 | 8,311 | 8,128 |
| 1991 | 40,235 | 49,309 | 56,407 | 13,136 | 10,954 | 12,773 |
| 1992 | 35,271 | 40,646 | 35,462 | 10,101 | 7,303 | 8,775 |
| 1993 | 33,675 | 38,144 | 39,677 | 13,253 | 10,526 | 20,422 |
| 1994 | 38,698 | 48,718 | 48,959 | 13,815 | 9,891 | 15,377 |
| 1995 | 41,853 | 41,236 | 41,477 | 11,354 | 6,737 | 15,930 |
| 1996 | 38,687 | 34,840 | 37,656 | 15,317 | 10,840 | 16,499 |
| 1997 | 44,041 | 39,340 | 49,910 | 17,161 | 10,390 | 16,795 |
| 1998 | 39,967 | 35,516 | 42,883 | 16,511 | 9,063 | 18,838 |

| Year | Grunts | | | Herrings | | |
|------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|---------------------------------------|
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1989 | 2,186 | 4,645 | 5,323 | 486 | 10,575 | 4,754 |
| 1990 | 2,384 | 4,503 | 4,704 | 903 | 13,516 | 7,331 |
| 1991 | 3,176 | 5,125 | 10,713 | 3,082 | 31,300 | 2,641 |
| 1992 | 2,979 | 4,831 | 6,757 | 2,034 | 23,974 | 4,959 |
| 1993 | 2,347 | 4,461 | 7,108 | 753 | 28,244 | 6,499 |
| 1994 | 2,890 | 5,633 | 8,256 | 762 | 26,411 | 12,137 |
| 1995 | 3,082 | 5,485 | 7,771 | 959 | 25,347 | 4,803 |
| 1996 | 2,350 | 3,818 | 6,156 | 1,057 | 21,637 | 7,969 |
| 1997 | 2,525 | 4,436 | 6,618 | 1,853 | 35,647 | 3,855 |
| 1998 | 1,788 | 3,280 | 5,373 | 915 | 25,443 | 6,997 |

| Year | Jacks | | | Mulletts | | |
|------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|---------------------------------------|
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1989 | 9,830 | 2,839 | 3,066 | 1,735 | 3,088 | 1,778 |
| 1990 | 4,231 | 2,044 | 3,980 | 2,061 | 2,283 | 1,522 |
| 1991 | 7,478 | 5,185 | 5,239 | 5,036 | 4,883 | 796 |
| 1992 | 5,934 | 5,549 | 6,017 | 5,185 | 5,240 | 331 |
| 1993 | 8,423 | 5,783 | 6,659 | 2,389 | 3,947 | 239 |
| 1994 | 6,269 | 4,150 | 7,198 | 3,095 | 3,893 | 495 |
| 1995 | 4,838 | 3,270 | 5,513 | 2,058 | 4,074 | 587 |
| 1996 | 5,893 | 3,459 | 4,884 | 1,835 | 2,705 | 907 |
| 1997 | 8,091 | 4,846 | 7,009 | 2,410 | 2,792 | 393 |
| 1998 | 9,928 | 3,966 | 7,556 | 2,410 | 2,842 | 432 |

See footnotes at end of page.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1989-1998

| Year | Porgies | | | Puffers | | |
|------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|---------------------------------------|
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1989 | 12,934 | 17,113 | 10,448 | 352 | 611 | 856 |
| 1990 | 8,968 | 14,090 | 8,076 | 176 | 381 | 830 |
| 1991 | 14,608 | 23,440 | 14,998 | 302 | 830 | 2,066 |
| 1992 | 13,389 | 17,502 | 12,316 | 359 | 743 | 1,357 |
| 1993 | 11,373 | 15,738 | 10,585 | 167 | 338 | 986 |
| 1994 | 10,054 | 13,659 | 13,048 | 97 | 248 | 893 |
| 1995 | 10,705 | 14,376 | 11,999 | 130 | 250 | 685 |
| 1996 | 9,020 | 13,113 | 10,782 | 114 | 246 | 566 |
| 1997 | 8,337 | 12,804 | 14,256 | 151 | 280 | 748 |
| 1998 | 7,570 | 10,290 | 13,129 | 67 | 145 | 545 |

| Year | Sculpins | | | Sea Basses | | |
|------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|---------------------------------------|
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1989 | 1 | 6 | 265 | 12,507 | 11,061 | 11,325 |
| 1990 | 1 | 5 | 118 | 7,743 | 6,927 | 12,428 |
| 1991 | 2 | 2 | 53 | 10,401 | 9,003 | 14,984 |
| 1992 | 7 | 9 | 45 | 9,759 | 6,629 | 12,587 |
| 1993 | 278 | 245 | 858 | 14,290 | 10,715 | 13,854 |
| 1994 | 188 | 87 | 289 | 11,788 | 7,921 | 14,502 |
| 1995 | 191 | 140 | 457 | 15,338 | 10,903 | 17,483 |
| 1996 | 297 | 163 | 383 | 12,688 | 8,748 | 13,088 |
| 1997 | 213 | 138 | 468 | 11,205 | 7,880 | 15,688 |
| 1998 | 312 | 130 | 318 | 8,276 | 3,532 | 11,538 |

| Year | Searobins | | | Snappers | | |
|------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|---------------------------------------|
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1989 | 146 | 351 | 2,628 | 6,549 | 5,078 | 2,694 |
| 1990 | 188 | 329 | 4,980 | 4,712 | 3,388 | 3,089 |
| 1991 | 317 | 486 | 7,788 | 7,670 | 5,485 | 11,339 |
| 1992 | 205 | 261 | 4,507 | 7,431 | 4,207 | 7,445 |
| 1993 | 156 | 245 | 7,481 | 8,214 | 4,989 | 7,941 |
| 1994 | 48 | 125 | 4,582 | 7,227 | 4,083 | 6,396 |
| 1995 | 21 | 100 | 4,694 | 6,158 | 3,556 | 6,490 |
| 1996 | 216 | 196 | 5,182 | 5,087 | 2,630 | 5,932 |
| 1997 | 242 | 238 | 5,523 | 7,484 | 3,442 | 8,058 |
| 1998 | 105 | 200 | 3,755 | 6,670 | 3,132 | 6,738 |

See footnotes at end of table.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1989-1998

| Year | Temperate Basses | | | Toadfishes | | |
|------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|---------------------------------------|
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1989 | 1,195 | 927 | 2,328 | 56 | 193 | 2,842 |
| 1990 | 2,915 | 1,601 | 3,850 | 7 | 32 | 2,633 |
| 1991 | 4,542 | 2,494 | 5,396 | 7 | 134 | 2,867 |
| 1992 | 4,683 | 1,977 | 5,538 | 19 | 152 | 1,631 |
| 1993 | 6,783 | 2,895 | 7,322 | 17 | 39 | 2,638 |
| 1994 | 7,888 | 2,827 | 10,490 | 28 | 61 | 1,720 |
| 1995 | 12,082 | 2,222 | 12,129 | 1 | 29 | 1,603 |
| 1996 | 15,876 | 3,744 | 15,287 | 1 | 14 | 1,036 |
| 1997 | 17,597 | 4,300 | 20,104 | 0 | 33 | 1,110 |
| 1998 | 13,995 | 3,294 | 18,438 | 2 | 10 | 895 |
| Year | Triggerfishes/Filefishes | | | Tunas And Mackerels | | |
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1989 | 1,832 | 1,109 | 447 | 41,444 | 7,689 | 2,063 |
| 1990 | 2,365 | 1,084 | 259 | 31,457 | 8,397 | 3,264 |
| 1991 | 2,428 | 1,000 | 427 | 33,097 | 10,784 | 2,949 |
| 1992 | 1,654 | 796 | 307 | 24,513 | 7,067 | 3,027 |
| 1993 | 1,547 | 767 | 232 | 31,259 | 8,604 | 5,487 |
| 1994 | 1,414 | 740 | 179 | 36,279 | 12,040 | 5,507 |
| 1995 | 1,257 | 703 | 194 | 37,142 | 9,234 | 5,720 |
| 1996 | 851 | 470 | 265 | 34,930 | 9,302 | 6,433 |
| 1997 | 1,076 | 506 | 227 | 40,880 | 11,432 | 6,574 |
| 1998 | 689 | 349 | 219 | 29,496 | 7,054 | 3,989 |
| Year | Wrasses | | | California Scorpionfish (1) | | |
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1989 | 6,736 | 3,161 | 3,403 | - | - | - |
| 1990 | 5,424 | 2,837 | 3,740 | - | - | - |
| 1991 | 8,696 | 3,518 | 4,610 | - | - | - |
| 1992 | 8,237 | 3,088 | 3,313 | - | - | - |
| 1993 | 6,536 | 2,880 | 3,532 | 166 | 148 | 72 |
| 1994 | 4,148 | 1,760 | 2,484 | 258 | 242 | 126 |
| 1995 | 5,153 | 2,053 | 3,392 | 224 | 212 | 139 |
| 1996 | 3,620 | 1,317 | 1,797 | 339 | 342 | 234 |
| 1997 | 2,582 | 926 | 1,817 | 206 | 243 | 132 |
| 1998 | 1,706 | 557 | 2,023 | 185 | 160 | 66 |

See footnotes at end of table.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1989-1998

| Year | Croakers (1) | | | Greenlings (1) | | |
|------|---------------------------------------|--|---------------------------------------|---------------------------------------|--|---------------------------------------|
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1993 | 582 | 1,216 | 1,146 | 1,814 | 497 | 175 |
| 1994 | 446 | 739 | 521 | 1,016 | 294 | 109 |
| 1995 | 695 | 1,132 | 674 | 962 | 252 | 144 |
| 1996 | 919 | 1,544 | 864 | 1,370 | 408 | 285 |
| 1997 | 557 | 774 | 711 | 1,062 | 299 | 244 |
| 1998 | 426 | 611 | 355 | 1,408 | 270 | 298 |
| Year | Pacific Barracuda (1) | | | Rockfishes (1) | | |
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1993 | 1,687 | 428 | 822 | 6,088 | 4,900 | 1,447 |
| 1994 | 2,015 | 526 | 1,239 | 4,809 | 3,798 | 698 |
| 1995 | 2,490 | 563 | 816 | 4,188 | 2,917 | 665 |
| 1996 | 1,011 | 234 | 350 | 4,810 | 3,741 | 806 |
| 1997 | 1,699 | 374 | 475 | 3,796 | 2,987 | 680 |
| 1998 | 2,057 | 450 | 752 | 5,592 | 4,135 | 734 |
| Year | Sea Chubs (1) | | | Silversides (1) | | |
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1993 | 87 | 129 | 60 | 439 | 1,078 | 152 |
| 1994 | 106 | 108 | 42 | 138 | 323 | 97 |
| 1995 | 225 | 217 | 31 | 317 | 800 | 171 |
| 1996 | 78 | 72 | 18 | 297 | 658 | 120 |
| 1997 | 66 | 58 | 12 | 169 | 492 | 243 |
| 1998 | 87 | 108 | 47 | 153 | 395 | 157 |
| Year | Smelts (1) | | | Surfperches ¹ | | |
| | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) | <u>Pounds harvested</u> (thousand) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| 1993 | 159 | 1,629 | 31 | 755 | 1,362 | 608 |
| 1994 | 91 | 1,208 | 0 | 443 | 820 | 363 |
| 1995 | 122 | 1,416 | 0 | 709 | 1,181 | 649 |
| 1996 | 474 | 4,351 | 4 | 949 | 1,466 | 687 |
| 1997 | 120 | 1,617 | 9 | 640 | 1,180 | 755 |
| 1998 | 357 | 4,825 | 9 | 1,006 | 1,436 | 489 |

(1) The 1989 Pacific data were estimated without weighting county populations. The MRFSS was not conducted on the Pacific Coast from 1990 to 1992.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL FINFISH HARVEST (A+B1) AND RELEASED (B2), BY STATE, 1997 and 1998

| State | 1997 | | |
|--------------------|--|--|---------------------------------------|
| | <u>Pounds Harvested</u> (thousands) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| Maine | 1,516 | 1,471 | 1,793 |
| New Hampshire | 1,479 | 598 | 568 |
| Massachusetts | 9,865 | 4,094 | 8,090 |
| Rhode Island | 3,225 | 1,745 | 2,260 |
| Connecticut | 3,228 | 1,487 | 2,301 |
| New York | 12,476 | 4,147 | 6,554 |
| New Jersey | 19,921 | 12,243 | 18,348 |
| Delaware | 2,751 | 1,926 | 3,605 |
| Maryland | 8,238 | 6,084 | 15,274 |
| Virginia | 16,835 | 15,998 | 18,979 |
| North Carolina | 19,703 | 7,421 | 10,564 |
| South Carolina | 4,492 | 3,350 | 5,272 |
| Georgia | 1,339 | 1,016 | 336 |
| Florida | 69,413 | 69,304 | 71,661 |
| Alabama | 5,784 | 2,630 | 2,367 |
| Mississippi | 4,479 | 2,444 | 2,457 |
| Louisiana | 23,385 | 12,871 | 18,101 |
| Washington | 4,322 | 2,637 | 2,649 |
| Oregon | 3,332 | 1,516 | 513 |
| California | 18,346 | 10,602 | 10,903 |
| Grand Total | 234,129 | 163,584 | 202,595 |

| State | 1998 | | |
|--------------------|--|--|---------------------------------------|
| | <u>Pounds Harvested</u> (thousands) | <u>Number Harvested</u> (thousands) | <u>Number Released</u> (thousands) |
| Maine | 701 | 662 | 945 |
| New Hampshire | 577 | 392 | 504 |
| Massachusetts | 9,226 | 2,748 | 10,034 |
| Rhode Island | 3,550 | 1,481 | 2,000 |
| Connecticut | 3,353 | 1,479 | 3,227 |
| New York | 8,421 | 3,652 | 5,411 |
| New Jersey | 13,511 | 5,613 | 15,694 |
| Delaware | 2,443 | 1,611 | 3,901 |
| Maryland | 8,217 | 6,357 | 14,342 |
| Virginia | 13,902 | 11,910 | 15,130 |
| North Carolina | 14,972 | 6,998 | 9,981 |
| South Carolina | 3,287 | 2,434 | 4,267 |
| Georgia | 1,005 | 843 | 732 |
| Florida | 54,738 | 55,855 | 63,089 |
| Alabama | 4,790 | 3,404 | 2,183 |
| Mississippi | 2,533 | 1,747 | 1,886 |
| Louisiana | 17,488 | 9,453 | 13,833 |
| Washington | 5,121 | 5,220 | 1,844 |
| Oregon | 3,775 | 1,712 | 530 |
| California | 23,021 | 11,950 | 7,203 |
| Grand Total | 194,631 | 135,521 | 176,736 |

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL NUMBERS OF ANGLERS AND TRIPS BY STATES, 1997 AND 1998

| State | 1997 | | | |
|--------------------|----------------------------------|--------------------------|------------------------------|------------------------------|
| | Out-of-State Anglers | In-State Anglers | | Number of Angler Trips |
| | | From Coastal Counties | From Non-Coastal Counties | |
| | ----- Numbers in thousands ----- | | | |
| Maine | 130 | 173 | 20 | 854 |
| New Hampshire | 67 | 59 | 8 | 338 |
| Massachusetts | 330 | 412 | 96 | 4,138 |
| Rhode Island | 178 | 97 | (1) | 1,163 |
| Connecticut | 70 | 257 | (1) | 1,132 |
| New York | 50 | 453 | 17 | 4,258 |
| New Jersey | 384 | 468 | 21 | 5,470 |
| Delaware | 137 | 86 | (1) | 884 |
| Maryland | 263 | 426 | 29 | 2,912 |
| Virginia | 286 | 381 | 66 | 3,704 |
| North Carolina | 842 | 323 | 163 | 4,789 |
| South Carolina | 308 | 150 | 71 | 1,584 |
| Georgia | 16 | 46 | 48 | 568 |
| Florida | 2,149 | 2,300 | (1) | 24,034 |
| Alabama | 98 | 107 | 64 | 1,000 |
| Mississippi | 90 | 104 | 32 | 985 |
| Louisiana | 95 | 464 | 48 | 3,140 |
| Washington | 25 | 321 | 13 | 1,455 |
| Oregon | 53 | 180 | 14 | 593 |
| California | 199 | 1,203 | 83 | 5,138 |
| Grand Total | 5,770 | 8,010 | 793 | 68,139 |

| State | 1998 | | | |
|--------------------|----------------------------------|--------------------------|------------------------------|------------------------------|
| | Out-of-State Anglers | In-State Anglers | | Number of Angler Trips |
| | | From Coastal Counties | From Non-Coastal Counties | |
| | ----- Numbers in thousands ----- | | | |
| Maine | 114 | 94 | 10 | 669 |
| New Hampshire | 57 | 55 | 6 | 272 |
| Massachusetts | 226 | 265 | 50 | 3,422 |
| Rhode Island | 186 | 77 | (1) | 1,093 |
| Connecticut | 73 | 299 | (1) | 1,293 |
| New York | 42 | 342 | 4 | 3,409 |
| New Jersey | 353 | 260 | 22 | 4,257 |
| Delaware | 186 | 67 | (1) | 910 |
| Maryland | 304 | 375 | 20 | 2,807 |
| Virginia | 289 | 256 | 23 | 2,932 |
| North Carolina | 611 | 279 | 118 | 4,289 |
| South Carolina | 402 | 130 | 51 | 1,659 |
| Georgia | 18 | 117 | 10 | 558 |
| Florida | 2,384 | 2,263 | (1) | 21,314 |
| Alabama | 98 | 70 | 27 | 927 |
| Mississippi | 66 | 55 | 9 | 801 |
| Louisiana | 106 | 440 | 27 | 2,629 |
| Washington | 42 | 326 | 21 | 1,463 |
| Oregon | 51 | 168 | 13 | 649 |
| California | 198 | 1,098 | 65 | 4,905 |
| Grand Total | 5,806 | 7,036 | 476 | 60,258 |

(1) Less than 1,000 anglers.

WORLD FISHERIES

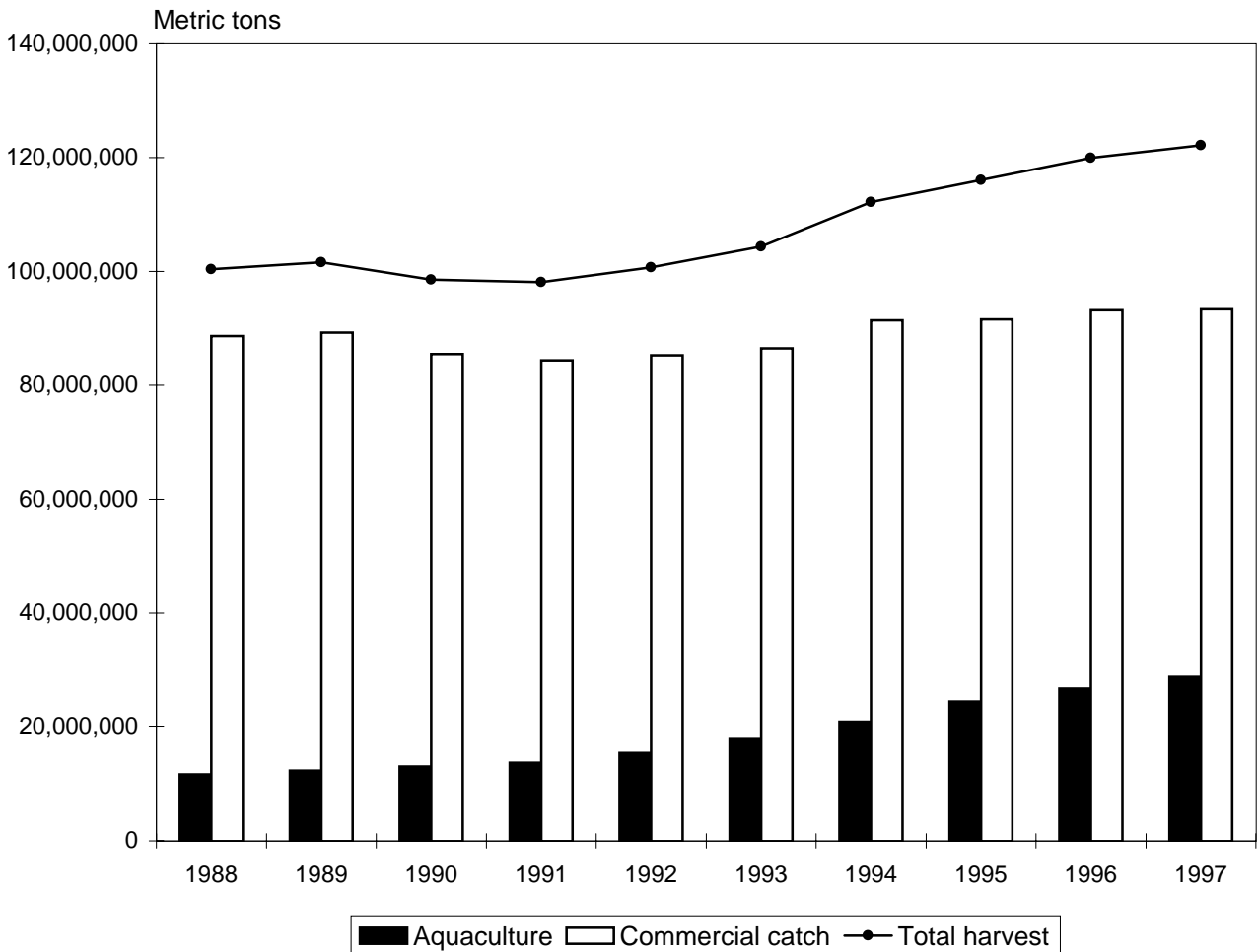
WORLD AQUACULTURE AND COMMERCIAL CATCHES, 1988-97

| Year | World aquaculture | | | World commercial catch | | | Grand Total |
|------|---|------------|------------|---|------------|------------|-------------|
| | Inland | Marine | Total | Inland | Marine | Total | |
| | ----- Metric tons ----- <u>Live weight</u> | | | ----- Metric tons ----- <u>Live weight</u> | | | |
| 1988 | 7,170,112 | 4,530,118 | 11,700,230 | 6,203,259 | 82,459,710 | 88,662,969 | 100,363,199 |
| 1989 | 7,653,595 | 4,678,589 | 12,332,184 | 6,232,676 | 83,022,499 | 89,255,175 | 101,587,359 |
| 1990 | 8,155,436 | 4,928,706 | 13,084,142 | 6,433,330 | 79,029,806 | 85,463,136 | 98,547,278 |
| 1991 | 8,394,514 | 5,336,867 | 13,731,381 | 6,204,019 | 78,192,191 | 84,396,210 | 98,127,591 |
| 1992 | 9,355,548 | 6,121,802 | 15,477,350 | 6,138,491 | 79,124,488 | 85,262,979 | 100,740,329 |
| 1993 | 10,559,393 | 7,328,865 | 17,888,258 | 6,527,341 | 79,940,673 | 86,468,014 | 104,356,272 |
| 1994 | 12,135,089 | 8,655,759 | 20,790,848 | 6,714,557 | 84,683,302 | 91,397,859 | 112,188,707 |
| 1995 | 14,047,774 | 10,436,358 | 24,484,132 | 7,255,131 | 84,302,371 | 91,557,502 | 116,041,634 |
| 1996 | 15,924,746 | 10,840,129 | 26,764,875 | 7,459,733 | 85,717,592 | 93,177,325 | 119,942,200 |
| 1997 | 17,618,773 | 11,189,641 | 28,808,414 | 7,739,212 | 85,589,940 | 93,329,152 | 122,137,566 |

Note: Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO)

World Aquaculture and Commercial Catches



WORLD FISHERIES

WORLD AQUACULTURE AND COMMERCIAL CATCHES BY COUNTRY OF FISH, CRUSTACEANS, AND MOLLUSKS, 1993-97

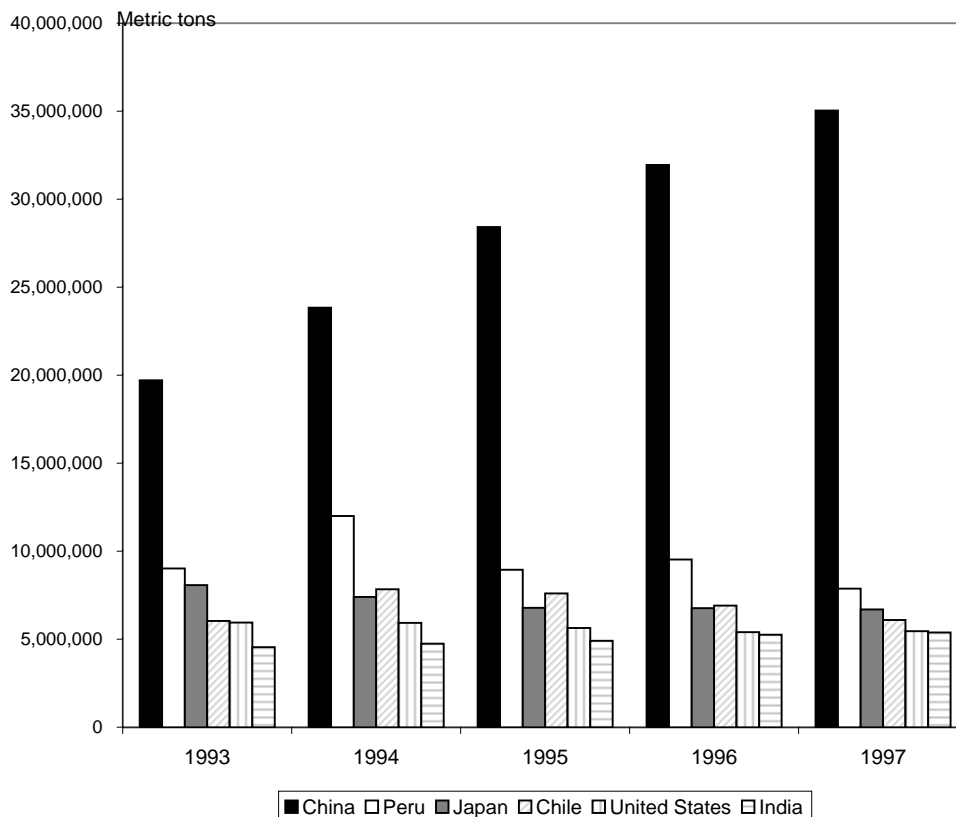
| Country | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|
| ----- Metric tons ----- <u>Live-weight</u> | | | | | |
| China | 19,708,195 | 23,833,631 | 28,418,359 | 31,936,876 | 35,037,967 |
| Peru | 9,009,639 | 12,005,120 | 8,943,111 | 9,521,960 | 7,877,252 |
| Japan | 8,080,820 | 7,398,335 | 6,787,414 | 6,765,484 | 6,688,833 |
| Chile | 6,036,007 | 7,838,538 | 7,590,985 | 6,908,896 | 6,083,913 |
| United States | 5,940,634 | 5,926,130 | 5,637,977 | 5,394,814 | 5,448,385 |
| India | 4,545,717 | 4,737,765 | 4,905,921 | 5,257,546 | 5,378,004 |
| Russian Federation | 4,461,381 | 3,780,537 | 4,373,827 | 4,729,565 | 4,715,024 |
| Indonesia | 3,685,439 | 3,913,151 | 4,139,057 | 4,290,711 | 4,403,810 |
| Thailand | 3,385,003 | 3,522,056 | 3,572,772 | 3,514,830 | 3,488,104 |
| Norway | 2,588,261 | 2,570,220 | 2,802,714 | 2,960,106 | 3,222,970 |
| South Korea | 2,649,368 | 2,700,676 | 2,688,070 | 2,771,759 | 2,596,474 |
| Iceland | 1,718,498 | 1,560,184 | 1,616,033 | 2,063,855 | 2,209,607 |
| Philippines | 2,226,395 | 2,232,919 | 2,222,031 | 2,133,035 | 2,136,249 |
| Denmark | 1,657,520 | 1,916,227 | 2,043,763 | 1,722,941 | 1,865,760 |
| Viet Nam | 1,061,618 | 1,177,554 | 1,394,176 | 1,431,000 | 1,546,000 |
| Mexico | 1,131,000 | 1,223,242 | 1,355,049 | 1,495,423 | 1,528,520 |
| Argentina | 931,758 | 949,520 | 1,148,842 | 1,250,050 | 1,352,400 |
| Bangladesh | 1,047,170 | 1,090,610 | 1,172,868 | 1,264,435 | 1,342,730 |
| Spain | 1,221,009 | 1,336,458 | 1,391,142 | 1,332,220 | 1,341,311 |
| Taiwan | 1,410,887 | 1,248,895 | 1,288,428 | 1,229,886 | 1,295,578 |
| All others | 21,859,953 | 21,226,939 | 22,549,095 | 21,966,808 | 22,578,675 |
| Total | 104,356,272 | 112,188,707 | 116,041,634 | 119,942,200 | 122,137,566 |

Note: Data for 1993-1996 are revised. For the United States the weight of clam, oyster, scallop, and other mollusk includes the shell weight. This weight is not included in U.S. landings shown elsewhere.

Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO)

Aquaculture and Commercial Catch by Leading Countries



WORLD FISHERIES

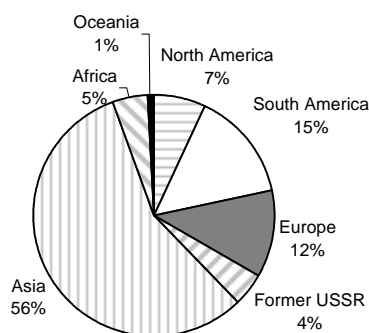
WORLD AQUACULTURE AND COMMERCIAL CATCHES BY CONTINENT OF FISH, CRUSTACEANS, AND MOLLUSKS, 1993-97

| Continent | 1993 | 1994 | 1995 | 1996 | 1997 |
|-------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| ----- Metric tons ----- | | | | | |
| <u>Live-weight</u> | | | | | |
| North America | 8,802,803 | 8,791,411 | 8,523,101 | 8,423,618 | 8,612,654 |
| South America | 17,848,837 | 22,695,455 | 19,959,415 | 20,174,373 | 17,791,857 |
| Europe | 12,631,635 | 12,909,783 | 13,623,915 | 13,574,587 | 14,153,084 |
| Former USSR | 5,404,485 | 4,528,700 | 5,217,967 | 5,571,641 | 5,453,659 |
| Asia | 53,370,345 | 56,980,287 | 61,861,299 | 65,745,237 | 69,141,341 |
| Africa | 5,235,216 | 5,223,162 | 5,667,228 | 5,458,072 | 5,822,293 |
| Oceania | 888,340 | 895,114 | 1,041,996 | 908,819 | 1,081,176 |
| Other | 174,611 | 164,795 | 146,713 | 85,853 | 81,502 |
| Total | 104,356,272 | 112,188,707 | 116,041,634 | 119,942,200 | 122,137,566 |

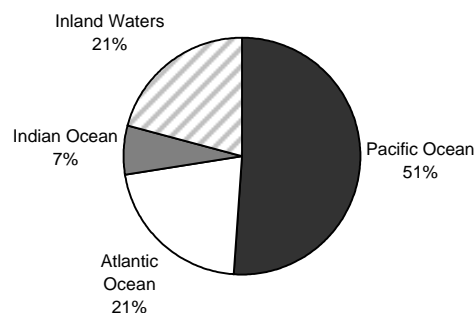
Note: Data for 1993-1996 are revised. Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO)

**1997 Aquaculture and Catches by
Continent**



1997 Aquaculture and Catches by Area



WORLD AQUACULTURE AND COMMERCIAL CATCHES BY MAJOR AREA OF FISH, CRUSTACEANS, AND MOLLUSKS, 1993-97

| Area | 1993 | 1994 | 1995 | 1996 | 1997 |
|-------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| ----- Metric tons ----- | | | | | |
| <u>Live-weight</u> | | | | | |
| Marine Areas: | | | | | |
| Pacific Ocean | 55,690,886 | 61,906,258 | 61,916,808 | 63,561,996 | 62,517,947 |
| Atlantic Ocean | 23,687,033 | 23,674,586 | 24,776,732 | 24,763,816 | 25,903,338 |
| Indian Ocean | 7,891,619 | 7,758,217 | 8,045,189 | 8,231,909 | 8,358,296 |
| Total | 87,269,538 | 93,339,061 | 94,738,729 | 96,557,721 | 96,779,581 |
| Inland waters: | | | | | |
| North America | 540,231 | 523,857 | 531,174 | 554,414 | 598,325 |
| South America | 374,903 | 403,252 | 442,968 | 445,167 | 484,189 |
| Europe | 498,342 | 509,399 | 528,859 | 513,225 | 518,906 |
| Former USSR | 536,387 | 471,328 | 416,846 | 413,918 | 400,739 |
| Asia | 13,210,700 | 15,077,097 | 17,321,437 | 19,430,459 | 21,267,314 |
| Africa | 1,902,919 | 1,843,305 | 2,038,993 | 2,004,993 | 2,064,921 |
| Oceania | 23,252 | 21,408 | 22,628 | 22,303 | 23,591 |
| Total | 17,086,734 | 18,849,646 | 21,302,905 | 23,384,479 | 25,357,985 |
| Grand total | 104,356,272 | 112,188,707 | 116,041,634 | 119,942,200 | 122,137,566 |

Note: Data for 1993-1996 are revised. Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO)

WORLD FISHERIES

WORLD AQUACULTURE AND COMMERCIAL CATCHES BY SPECIES OF FISH, CRUSTACEANS, AND MOLLUSKS, 1993-97

| Species group | 1993 | 1994 | 1995 | 1996 | 1997 |
|---------------------------------|-------------------------|--------------------|--------------------|--------------------|--------------------|
| | ----- Metric tons ----- | | | | |
| | <u>Live weight</u> | | | | |
| Herrings, sardines, anchovies | 22,009,188 | 25,909,716 | 22,020,462 | 22,307,567 | 21,581,548 |
| Carps, barbels, cyprinids | 8,306,260 | 9,688,176 | 11,309,561 | 12,724,064 | 13,975,121 |
| Jacks, mullets, sauries | 10,135,665 | 10,065,824 | 11,019,839 | 11,554,718 | 10,915,094 |
| Cods, hakes, haddocks | 9,926,851 | 9,726,772 | 10,723,094 | 10,740,032 | 10,234,871 |
| Redfish, basses, congers | 5,814,770 | 6,435,396 | 7,070,888 | 6,967,403 | 7,495,921 |
| Mackerel, snoeks, cutlassfishes | 4,016,794 | 4,531,937 | 4,715,607 | 5,151,347 | 5,262,654 |
| Tunas, bonitos, billfishes | 4,574,139 | 4,652,460 | 4,731,301 | 4,636,526 | 4,853,454 |
| Salmons, trouts, smelts | 1,706,930 | 1,807,711 | 2,095,863 | 2,104,856 | 2,145,694 |
| Tilapias | 1,081,383 | 1,125,540 | 1,273,762 | 1,366,788 | 1,529,190 |
| Flatfish | 1,108,737 | 996,560 | 933,160 | 953,266 | 1,031,949 |
| Sharks, rays, chimaeras | 741,321 | 756,892 | 752,766 | 804,002 | 789,862 |
| Shads | 656,146 | 634,389 | 685,224 | 717,299 | 739,157 |
| River eels | 202,917 | 206,174 | 201,884 | 250,228 | 251,179 |
| Sturgeons, paddlefish | 9,081 | 8,124 | 6,794 | 6,128 | 6,721 |
| Other fishes | 16,262,101 | 15,853,551 | 16,446,115 | 17,295,972 | 17,555,218 |
| Shrimp | 2,931,301 | 3,136,785 | 3,252,936 | 3,397,758 | 3,477,141 |
| Crabs | 1,012,100 | 1,209,815 | 1,236,475 | 1,316,198 | 1,348,847 |
| Lobsters | 211,285 | 224,331 | 232,493 | 223,551 | 249,866 |
| Krill | 88,777 | 83,962 | 118,714 | 101,708 | 84,608 |
| Other crustaceans | 1,173,512 | 1,316,537 | 1,514,173 | 1,699,415 | 1,979,712 |
| Squids, cuttlefishes, octopus | 2,707,136 | 2,772,744 | 2,878,146 | 3,058,004 | 3,320,730 |
| Oysters | 2,031,843 | 2,814,362 | 3,243,485 | 3,223,903 | 3,279,459 |
| Clams, cockles, arkshells | 2,450,791 | 2,612,478 | 2,717,704 | 2,684,037 | 2,780,364 |
| Scallops | 1,465,315 | 1,642,674 | 1,654,476 | 1,757,942 | 1,746,293 |
| Mussels | 1,312,134 | 1,264,257 | 1,363,938 | 1,318,701 | 1,363,197 |
| Abalones, winkles, conchs | 93,810 | 102,488 | 104,660 | 113,355 | 109,670 |
| Other mollusks | 1,901,295 | 2,104,904 | 3,162,403 | 2,920,688 | 3,298,975 |
| Sea urchins, other echinoderms | 105,251 | 116,795 | 127,134 | 117,911 | 109,174 |
| Miscellaneous | 319,439 | 387,353 | 448,577 | 428,833 | 621,897 |
| Total | 104,356,272 | 112,188,707 | 116,041,634 | 119,942,200 | 122,137,566 |

Note: Data for 1993-1996 are revised. Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO).

DISPOSITION OF WORLD AQUACULTURE AND COMMERCIAL CATCHES, 1993-97

| Item | 1993 | 1994 | 1995 | 1996 | 1997 |
|-----------------------------|------------------------------|------------|------------|------------|------------|
| | ----- Percent of Total ----- | | | | |
| Marketed fresh | 25.3 | 25.8 | 29.5 | 32.2 | 35.1 |
| Frozen | 24.8 | 23.6 | 23.3 | 22.8 | 22.2 |
| Canned | 12.2 | 11.1 | 10.9 | 10.3 | 9.2 |
| Cured | 9.8 | 9.8 | 10.0 | 9.6 | 10.0 |
| Reduced to meal and oil (1) | 26.1 | 27.9 | 24.7 | 23.5 | 22.0 |
| Miscellaneous purposes | 2 | 2 | 2 | 2 | 2 |
| Total | 100 | 100 | 100 | 100 | 100 |

Note: Data for 1993-1996 are revised.

(1) 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.

Note: Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO)

WORLD FISHERIES

WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS, BY LEADING COUNTRIES, 1993-97

| Country | 1993 | 1994 | 1995 | 1996 | 1997 |
|-----------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| ----- Thousand U.S. dollars ----- | | | | | |
| <u>IMPORTS:</u> | | | | | |
| Japan | 14,187,149 | 16,140,465 | 17,853,481 | 17,023,945 | 15,539,507 |
| United States | 6,290,233 | 7,043,431 | 7,141,428 | 7,080,411 | 8,138,840 |
| Spain | 2,629,799 | 2,638,737 | 3,105,684 | 3,134,893 | 3,085,424 |
| France | 2,556,151 | 2,796,719 | 3,221,298 | 3,194,133 | 3,062,051 |
| Italy | 2,131,181 | 2,257,462 | 2,281,316 | 2,590,985 | 2,571,868 |
| Germany | 1,884,301 | 2,316,449 | 2,478,817 | 2,542,957 | 2,362,914 |
| United Kingdom | 1,628,852 | 1,880,350 | 1,910,091 | 2,065,025 | 2,141,619 |
| Hong Kong | 1,376,856 | 1,647,106 | 1,831,511 | 1,928,143 | 2,096,894 |
| Denmark | 1,094,253 | 1,415,239 | 1,573,732 | 1,618,669 | 1,521,062 |
| China | 575,929 | 855,706 | 941,293 | 1,184,170 | 1,183,283 |
| Canada | 821,404 | 913,404 | 1,034,070 | 1,158,864 | 1,129,210 |
| Netherlands | 791,608 | 1,017,635 | 1,191,857 | 1,141,647 | 1,107,443 |
| South Korea | 537,346 | 718,451 | 824,817 | 1,054,095 | 1,017,949 |
| Belgium | 730,459 | 920,918 | 1,035,818 | 966,333 | 979,272 |
| Portugal | 627,713 | 669,888 | 763,245 | 782,858 | 749,602 |
| Taiwan | 544,243 | 560,799 | 589,723 | 612,945 | 659,817 |
| Singapore | 566,502 | 619,595 | 659,681 | 641,782 | 626,876 |
| Sweden | 371,756 | 448,661 | 546,076 | 587,169 | 596,486 |
| Norway | 310,352 | 322,087 | 490,383 | 535,642 | 562,133 |
| Other Countries | 4,910,471 | 5,939,203 | 6,588,606 | 7,926,838 | 7,105,736 |
| Total | 44,566,558 | 51,122,305 | 56,062,927 | 57,771,504 | 56,237,986 |
| <u>EXPORTS:</u> | | | | | |
| Norway | 2,302,346 | 2,718,132 | 3,122,662 | 3,415,696 | 3,399,229 |
| China | 1,542,429 | 2,320,125 | 2,835,021 | 2,856,986 | 2,937,281 |
| United States | 3,179,474 | 3,229,585 | 3,383,589 | 3,147,858 | 2,850,311 |
| Denmark | 2,150,665 | 2,359,034 | 2,459,629 | 2,698,976 | 2,648,911 |
| Thailand | 3,404,268 | 4,190,036 | 4,449,457 | 4,117,865 | 2,349,694 |
| Canada | 2,055,438 | 2,182,078 | 2,314,413 | 2,291,261 | 2,270,725 |
| Chile | 1,124,679 | 1,303,974 | 1,704,260 | 1,697,258 | 1,781,805 |
| Taiwan | 2,369,422 | 1,804,050 | 1,809,166 | 1,762,132 | 1,781,541 |
| Indonesia | 1,419,492 | 1,583,416 | 1,666,752 | 1,678,222 | 1,620,628 |
| Spain | 813,750 | 1,021,015 | 1,190,676 | 1,461,486 | 1,471,306 |
| Netherlands | 1,296,340 | 1,435,824 | 1,447,239 | 1,470,046 | 1,425,552 |
| South Korea | 1,335,238 | 1,411,052 | 1,564,878 | 1,509,458 | 1,376,465 |
| Iceland | 1,137,638 | 1,264,615 | 1,342,552 | 1,425,837 | 1,360,285 |
| Russian Federation | 1,471,446 | 1,720,459 | 1,635,145 | 1,686,162 | 1,355,995 |
| Peru | 685,004 | 979,502 | 869,727 | 1,120,391 | 1,342,182 |
| United Kingdom | 1,036,674 | 1,180,158 | 1,195,477 | 1,307,859 | 1,264,447 |
| India | 835,980 | 1,125,440 | 1,040,671 | 1,115,963 | 1,236,311 |
| Ecuador | 573,775 | 723,691 | 902,085 | 924,596 | 1,178,912 |
| France | 857,752 | 909,734 | 993,364 | 1,003,460 | 1,097,534 |
| Other Countries | 11,808,140 | 13,825,440 | 15,853,191 | 16,144,809 | 16,854,036 |
| Total | 41,399,950 | 47,287,360 | 51,779,954 | 52,836,321 | 51,603,150 |

Note: Data for 1993-1996 are revised. Data on imports and exports cover the international trade of 176 countries or areas. The total value of exports is consistently less than the 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 are 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)

PROCESSED FISHERY PRODUCTS

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1998 the U.S. production of raw (uncooked) fish fillets and steaks, including blocks, was 438.7 million pounds--29.0 million pounds more than the 409.7 million pounds in 1997. These fillets and steaks were valued at \$1.0 billion. Alaska pollock fillets and blocks led all species with 161.4 million pounds--37 percent of the total. Production of groundfish fillets and steaks (see Glossary Section-Groundfish) was 269.0 million pounds.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 243.4 million pounds valued at \$287.9 million compared with the 1997 production of 264.7 million pounds valued at \$349.6 million.

The total production of fish sticks amounted to 67.2 million pounds valued at \$61.7 million. The total production of fish portions amounted to 176.1 million pounds valued at \$226.2 million.

BREADED SHRIMP. The production of breaded shrimp in 1998 was 109.5 million pounds valued at \$333.2 million, compared with the 1997 production of 117.5 million pounds valued at \$334.9 million.

FROZEN FISHERY TRADE. In 1998, stocks of frozen fishery products in cold storage were at a low of 364.2 million pounds on May 31 and a high of 437.2 million pounds on November 30. Cold storage holdings of shrimp products were at a high of 57.5 million pounds on October 31 and a low of 39.7 million pounds on March 31. Holdings of saltwater fillets and steaks reached a high of 94.2 million pounds on November 30 and were at a low of 64.3 million pounds on February 28. Holdings of blocks and slabs were at a high of 66.7 million pounds on December 31 and a low of 28.6 million pounds on March 31. Surimi reached a high of 45.1 million pounds on June 30 and was at a low of 19.9 million pounds on January 31. Analog Products reached a high of 7.3 million pounds on September 30 and a low of 4.1 million pounds on December 31.

CANNED PRODUCTS

CANNED FISHERY PRODUCTS. The pack of canned fishery products in the 50 states, American Samoa, and Puerto Rico was 1.5 billion pounds valued at \$1.8 billion--a decrease of 34.1 million pounds, but an increase of \$172.5 million compared with the 1997 pack. The 1998 pack included 986.6 million pounds valued at \$1.4 billion for human consumption and 544.3 million pounds valued at \$349.8 million for bait and animal food.

CANNED SALMON. The 1998 U.S. pack of salmon was 162.5 million pounds valued at \$273.5 million, compared with 162.1 million pounds valued at \$252.8 million packed in 1997.

CANNED SARDINES. The pack of Maine sardines (small herring) was 11.8 million pounds valued at \$19.5 million, a decrease of 4.1 million pounds and \$9.5 million compared with 1997. There were 3.7 million pounds of herring valued at \$6.6 million packed in 1998 — a decrease of 2.2 million pounds and \$4.6 million than the 1997 pack.

CANNED TUNA. The U.S. pack of tuna was 680.9 million pounds valued at \$983.0 million--an increase of 53.8 million pounds in quantity and \$64.3 million in value compared with the 1997 pack. The pack of albacore tuna was 196.8 million pounds comprising 30 percent of the tuna pack in 1998. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 484.1 million pounds.

CANNED CLAMS. The 1998 U.S. pack of clams (whole, minced, chowder, juice, and specialties) was 113.4 million pounds valued at \$104.9 million. The pack of whole and minced clams was 36.6 million pounds and accounted for 32 percent of the total clam pack. Clam chowder and clam juice was 67.1 million pounds and made up the majority of the pack.

OTHER CANNED ITEMS. The pack of pet food was 544.3 million pounds valued at \$349.8 million--a decrease of 68.0 million pounds compared with the 1997 pack.

INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of industrial fishery products was \$229.4 million--a decrease of \$118.0 million compared with the 1997 value of \$347.4 million.

FISH MEAL. The domestic production of fish and shellfish meal was 592.6 million pounds valued at \$112.9 million--a decrease of 132.1 million pounds, and \$61.1 million compared with 1997. Fish meal production was 573.9 million pounds valued at \$111.7 million--a decrease of 132.7 million pounds and \$61.0 million from the 1997 production. Shellfish meal production was 18.7 million pounds--an increase of 546,000 pounds from the 1997 level.

FISH OILS. The domestic production of fish oils was 223.1 million pounds valued at \$55.7 million--a decrease of 60.2 million pounds, but an increase of \$413,000 in value compared with 1997 production.

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 \$60.8 million, compared with \$118.1 million in 1997--a decrease of \$57.3 million.

PROCESSED FISHERY PRODUCTS

VALUE OF PROCESSED FISHERY PRODUCTS, 1997 AND 1998 (Processed from domestic catch and imported products)

| Item | 1997 (1) | | 1998 | |
|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | <u>Thousand dollars</u> | <u>Percent of total</u> | <u>Thousand dollars</u> | <u>Percent of total</u> |
| Edible: | | | | |
| Fresh and frozen | 6,016,739 | 74 | 5,224,437 | 71 |
| Canned | 1,361,437 | 17 | 1,415,965 | 19 |
| Cured | 142,843 | 2 | 132,257 | 2 |
| Total edible | 7,521,019 | 93 | 6,772,659 | 92 |
| Industrial: | | | | |
| Bait and animal food (canned) | 231,756 | 3 | 349,765 | 5 |
| Meal and oil | 229,222 | 3 | 168,580 | 2 |
| Other | 118,128 | 1 | 60,800 | 1 |
| Total industrial | 579,106 | 7 | 579,145 | 8 |
| Grand total | 8,100,125 | 100 | 7,351,804 | 100 |

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

Note:--Value is based on selling price at the plant.

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1989-98

| Year | Fish sticks | | | Fish portions | | | Breaded shrimp | | |
|------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| 1989 | 89,112 | 40,421 | 116,440 | 279,864 | 126,945 | 400,351 | 120,927 | 54,852 | 404,535 |
| 1990 | 65,209 | 29,579 | 74,866 | 242,776 | 110,122 | 352,589 | 110,760 | 50,240 | 353,265 |
| 1991 | 63,286 | 28,706 | 77,877 | 204,697 | 92,850 | 313,400 | 116,335 | 52,769 | 335,880 |
| 1992 | 58,295 | 26,442 | 56,020 | 194,307 | 88,137 | 296,214 | 122,266 | 55,459 | 350,497 |
| 1993 | 67,959 | 30,826 | 67,975 | 206,165 | 93,516 | 313,195 | 111,489 | 50,571 | 316,722 |
| 1994 | 58,789 | 26,667 | 51,429 | 196,289 | 89,036 | 268,353 | 113,461 | 51,466 | 304,931 |
| 1995 | 74,066 | 33,596 | 73,478 | 251,217 | 113,951 | 356,518 | 100,522 | 45,596 | 299,355 |
| 1996 | 65,244 | 29,594 | 55,802 | 213,962 | 97,053 | 306,501 | 108,486 | 49,209 | 341,770 |
| 1997 | 69,167 | 31,374 | 64,298 | 195,554 | 88,703 | 285,348 | 117,471 | 53,284 | 334,939 |
| 1998 | 67,242 | 30,501 | 61,707 | 176,114 | 79,885 | 226,153 | 109,484 | 49,662 | 333,250 |

PROCESSED FISHERY PRODUCTS

FISH FILLETS AND STEAKS

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1997 AND 1998

| Species | 1997 (1) | | | 1998 | | |
|--------------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| Fillets: | | | | | | |
| Amberjack | 521 | 236 | 2,044 | 411 | 186 | 1,520 |
| Anglerfish | 7,052 | 3,199 | 17,683 | 5,614 | 2,546 | 15,209 |
| Bluefish | 141 | 64 | 301 | 151 | 68 | 335 |
| Cod | 79,332 | 35,985 | 179,894 | 67,229 | 30,495 | 162,297 |
| Cusk | 117 | 53 | 350 | 97 | 44 | 328 |
| Dolphin | 5,149 | 2,336 | 20,602 | 4,516 | 2,048 | 20,253 |
| Drum | 291 | 132 | 1,002 | 133 | 60 | 2,246 |
| Flounders | 26,889 | 12,197 | 78,699 | 23,796 | 10,794 | 70,804 |
| Groupers | 2,856 | 1,295 | 17,573 | 3,140 | 1,424 | 16,986 |
| Haddock | 6,802 | 3,085 | 24,182 | 5,677 | 2,575 | 21,852 |
| Hake | 18,838 | 8,545 | 16,930 | 28,609 | 12,977 | 22,085 |
| Halibut | 4,385 | 1,989 | 21,126 | 4,867 | 2,208 | 20,753 |
| Lingcod | 770 | 349 | 1,771 | 483 | 219 | 3,759 |
| Marlin | 537 | 244 | 1,686 | 487 | 221 | 1,310 |
| Ocean perch: | | | | | | |
| Atlantic | 688 | 312 | 2,137 | 616 | 279 | 1,918 |
| Pacific | 1,442 | 654 | 2,830 | 1,781 | 808 | 3,559 |
| Pollock: | | | | | | |
| Atlantic | 1,125 | 510 | 2,460 | 3,596 | 1,631 | 7,148 |
| Alaska | 112,059 | 50,830 | 128,632 | 161,399 | 73,210 | 189,745 |
| Rockfishes | 16,818 | 7,629 | 33,284 | 15,942 | 7,231 | 32,378 |
| Sablefish | 1,489 | 675 | 3,459 | 426 | 193 | 1,517 |
| Salmon | 18,729 | 8,495 | 68,003 | 28,178 | 12,781 | 85,584 |
| Sea bass | 756 | 343 | 4,441 | 655 | 297 | 3,741 |
| Sea trout | 211 | 96 | 896 | 222 | 101 | 3,952 |
| Shark | 2,049 | 929 | 6,000 | 1,823 | 827 | 5,120 |
| Snapper | 2,666 | 1,209 | 14,074 | 2,932 | 1,330 | 18,730 |
| Swordfish | 9,196 | 4,171 | 51,044 | 9,992 | 4,532 | 53,156 |
| Tilapia | 1,358 | 616 | 3,983 | 1,519 | 689 | 4,329 |
| Tuna | 11,372 | 5,158 | 71,946 | 11,751 | 5,330 | 77,076 |
| Wahoo | 262 | 119 | 1,249 | 260 | 118 | 1,348 |
| Whitefish | 965 | 438 | 2,768 | 980 | 445 | 2,549 |
| Wolffish | 58 | 26 | 174 | 86 | 39 | 236 |
| Unclassified | 19,899 | 9,026 | 63,313 | 16,799 | 7,620 | 55,930 |
| Total | 354,822 | 160,946 | 844,536 | 404,167 | 183,329 | 907,753 |
| Steaks: | | | | | | |
| Halibut | 5,539 | 2,512 | 22,194 | 6,464 | 2,932 | 23,989 |
| Salmon | 1,640 | 744 | 3,481 | 1,197 | 543 | 2,828 |
| Shark | 117 | 53 | 259 | 27 | 12 | 78 |
| Swordfish | 3,467 | 1,573 | 15,332 | 4,058 | 1,841 | 16,390 |
| Tuna | 5,100 | 2,313 | 16,961 | 4,615 | 2,093 | 15,917 |
| Unclassified | 38,967 | 17,675 | 57,985 | 18,216 | 8,263 | 34,831 |
| Total | 54,830 | 24,871 | 116,212 | 34,577 | 15,684 | 94,033 |
| Grand total | 409,652 | 185,817 | 960,748 | 438,744 | 199,013 | 1,001,786 |

(1) Revised.

Note:--Some fillet products were further processed into frozen blocks.

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1997 AND 1998

| Species | Pounds per case | 1997 | | | 1998 | | |
|------------------------------------|-----------------|-------------------|------------------|------------------|-------------------|------------------|------------------|
| | | Standard cases | Thousand pound | Thousand dollars | Standard cases | Thousand pound | Thousand dollars |
| For human consumption: | | | | | | | |
| Fish: | | | | | | | |
| Herring | 23.4 | 250,855 | 5,870 | 11,172 | 158,291 | 3,704 | 6,612 |
| Salmon: | | | | | | | |
| Chinook | 44.25 | 678 | 30 | 174 | 362 | 16 | 103 |
| Chum | 44.25 | 175,864 | 7,782 | 7,039 | 212,271 | 9,393 | 8,711 |
| Pink | 44.25 | 2,604,678 | 115,257 | 140,999 | 2,672,136 | 118,242 | 153,008 |
| Coho | 44.25 | 59,367 | 2,627 | 6,809 | 36,000 | 1,593 | 3,288 |
| Sockeye | 44.25 | 690,169 | 30,540 | 97,790 | 667,887 | 29,554 | 108,420 |
| Total salmon | | 3,530,757 | 162,106 | 252,811 | 3,588,655 | 162,502 | 273,530 |
| Specialties | 48 | 8,750 | 420 | 4,105 | 13,229 | 635 | 4,770 |
| Sardines, Maine | 23.4 | 682,735 | 15,976 | 29,027 | 506,068 | 11,842 | 19,488 |
| Tuna: (2) | | | | | | | |
| Albacore: | | | | | | | |
| Solid | 18 | 8,647,722 | 155,659 | 336,415 | 9,065,944 | 163,187 | 330,348 |
| Chunk | 18 | 1,646,333 | 29,634 | 58,177 | 1,867,000 | 33,606 | 60,604 |
| Total albacore | | 10,294,056 | 185,293 | 394,592 | 10,932,944 | 196,793 | 390,952 |
| Lightmeat: | | | | | | | |
| Solid | 18 | 408,833 | 7,359 | 11,233 | 502,444 | 9,044 | 13,952 |
| Chunk | 18 | 24,132,222 | 434,380 | 512,905 | 26,389,778 | 475,016 | 578,108 |
| Total lightmeat | | 24,541,056 | 441,739 | 524,138 | 26,892,222 | 484,060 | 592,060 |
| Total tuna | | 34,835,111 | 627,032 | 918,730 | 37,825,167 | 680,853 | 983,012 |
| Specialties | 48 | 438 | 21 | 210 | 542 | 26 | 179 |
| Other | 48 | 373,896 | 17,947 | 18,694 | 305,813 | 14,679 | 17,302 |
| Total fish | -- | 39,682,541 | 817,632 | 1,234,749 | 42,397,764 | 870,537 | 1,304,893 |
| Shellfish: | | | | | | | |
| Clam and clam products: (3) | | | | | | | |
| Whole and minced | 15 | 2,911,800 | 43,677 | 62,698 | 2,442,533 | 36,638 | 54,205 |
| Chowder and juice | 30 | 2,330,433 | 69,913 | 43,175 | 2,235,733 | 67,072 | 41,420 |
| Specialties | 48 | 235,125 | 11,286 | 8,703 | 201,250 | 9,660 | 9,275 |
| Total clams | -- | 5,477,358 | 124,876 | 114,576 | 4,879,517 | 113,370 | 104,900 |
| Crabs, natural | 20 | 4,256 | 83 | 446 | 4,000 | 78 | 437 |
| Lobster meat and specialties | 48 | 7,417 | 356 | 439 | 9,188 | 441 | 525 |
| Oyster, specialties | 48 | 604 | 29 | 111 | 667 | 32 | 81 |
| Shrimp, natural (4) | 6.75 | 173,037 | 1,168 | 4,557 | 28,741 | 194 | 1,300 |
| Other | 48 | 179,396 | 8,611 | 6,559 | 41,375 | 1,986 | 3,829 |
| Total shellfish | -- | 5,842,068 | 135,123 | 126,688 | 4,963,487 | 116,101 | 111,072 |
| Total for human consumption | -- | 45,524,610 | 952,755 | 1,361,437 | 47,361,251 | 986,638 | 1,415,965 |
| For bait and animal food | 48 | 12,756,667 | 612,320 | 231,756 | 11,340,125 | 544,326 | 349,765 |
| Grand total | -- | 58,281,276 | 1,565,075 | 1,593,193 | 58,701,376 | 1,530,964 | 1,765,730 |

(1) Revised.

(2) Flakes included with chunk.

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

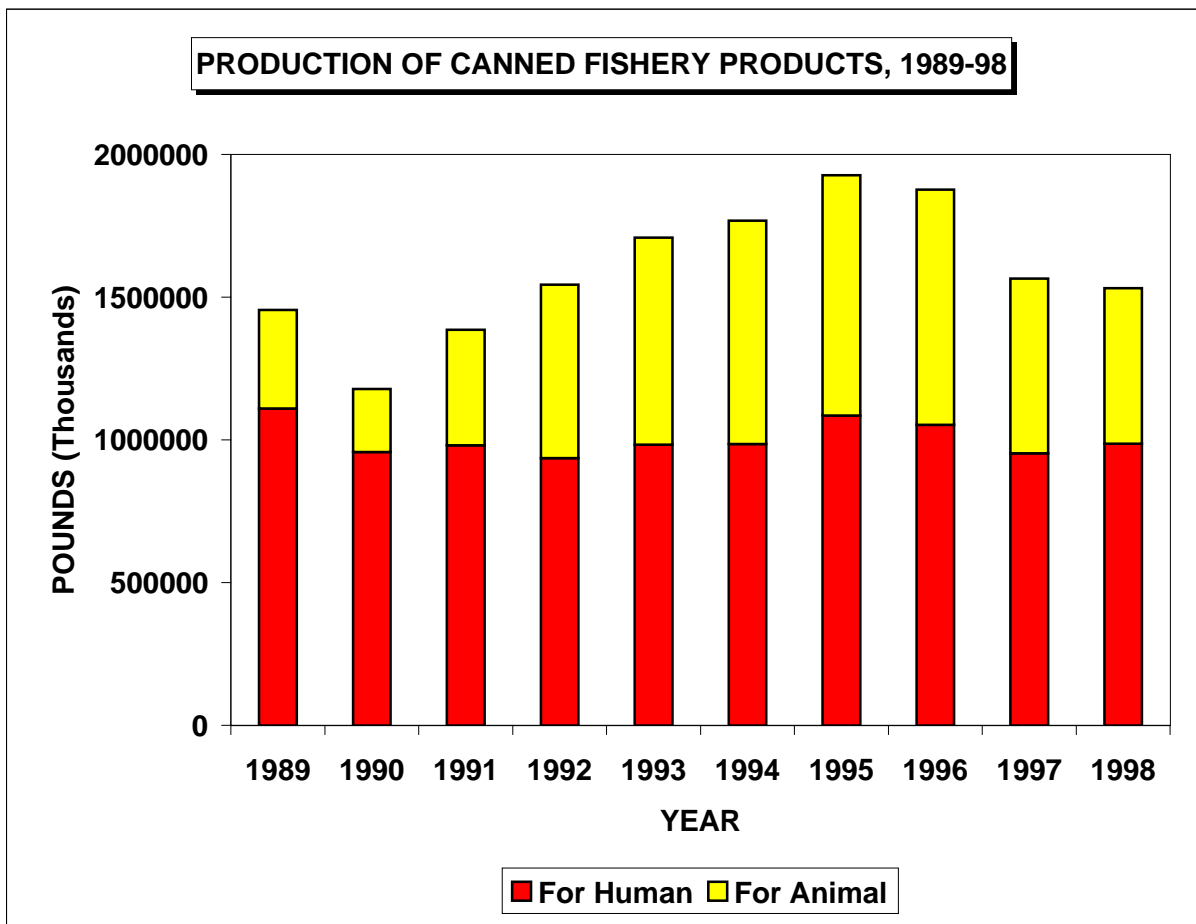
(4) Drained weight.

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, 1989-98

| Year | For human consumption | | | For animal food and bait | | | Total | | |
|------|-----------------------|-------------|------------------|--------------------------|-------------|------------------|-----------------|-------------|------------------|
| | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds | Metric tons | Thousand dollars |
| 1989 | 1,109,788 | 503,397 | 1,753,536 | 345,464 | 156,701 | 238,343 | 1,455,252 | 660,098 | 1,991,879 |
| 1990 | 956,962 | 434,075 | 1,414,846 | 221,320 | 100,390 | 146,947 | 1,178,282 | 534,465 | 1,561,793 |
| 1991 | 981,275 | 445,103 | 1,439,362 | 404,440 | 183,453 | 204,917 | 1,385,715 | 628,556 | 1,644,279 |
| 1992 | 936,117 | 424,620 | 1,330,173 | 607,678 | 275,641 | 247,261 | 1,543,795 | 700,261 | 1,577,434 |
| 1993 | 983,225 | 445,988 | 1,375,377 | 725,822 | 329,231 | 312,597 | 1,709,047 | 775,219 | 1,687,974 |
| 1994 | 985,675 | 447,099 | 1,470,234 | 782,272 | 354,836 | 325,264 | 1,767,947 | 801,935 | 1,795,498 |
| 1995 | 1,084,866 | 492,092 | 1,544,208 | 842,351 | 382,088 | 342,842 | 1,927,217 | 874,180 | 1,887,050 |
| 1996 | 1,052,909 | 477,596 | 1,428,937 | 824,094 | 373,807 | 370,945 | 1,877,003 | 851,403 | 1,799,882 |
| 1997 | 952,755 | 432,167 | 1,361,437 | 612,320 | 277,747 | 231,756 | 1,565,075 | 709,913 | 1,593,193 |
| 1998 | 986,638 | 447,536 | 1,415,965 | 544,326 | 246,905 | 349,765 | 1,530,964 | 694,441 | 1,765,730 |



PROCESSED FISHERY PRODUCTS

INDUSTRIAL PRODUCTS

PRODUCTION OF MEAL AND OIL, 1997 AND 1998

| Product | 1997 | | | 1998 | | |
|------------------------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| Dried scrap and meal: | | | | | | |
| Fish | 706,544 | 320,486 | 172,673 | 573,882 | 260,311 | 111,710 |
| Shellfish | 18,124 | 8,221 | 1,263 | 18,670 | 8,469 | 1,171 |
| Total, scrap and meal | 724,668 | 328,707 | 173,936 | 592,552 | 268,780 | 112,881 |
| Body oil, total | 283,379 | 128,540 | 55,287 | 223,149 | 101,220 | 55,700 |

Note:--To convert pounds of oil to gallons divide by 7.75. The above data includes production in American Samoa and Puerto Rico.

PRODUCTION OF INDUSTRIAL PRODUCTS, 1989-98

| Year | Scrap and meal | | Marine animal oil | | Meal, and oil | Other industrial products | Grand total |
|------|----------------------------|------------------------|----------------------------|------------------------|------------------------------|---------------------------------|-------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | ----- Thousand dollars ----- | | |
| 1989 | 618,382 | 280,496 | 225,478 | 102,276 | 156,321 | 49,756 | 206,077 |
| 1990 | 577,498 | 261,951 | 281,949 | 127,891 | 163,796 | 42,759 | 206,555 |
| 1991 | 612,716 | 277,926 | 267,345 | 121,267 | 170,495 | 37,707 | 208,202 |
| 1992 | 644,512 | 292,349 | 184,725 | 83,791 | 157,693 | 45,310 | 203,003 |
| 1993 | 750,744 | 340,535 | 293,452 | 133,109 | 182,170 | 43,689 | 225,859 |
| 1994 | 807,833 | 366,431 | 291,882 | 132,397 | 186,222 | 61,992 | 248,214 |
| 1995 | 667,240 | 302,658 | 241,941 | 109,744 | 172,279 | 74,264 | 246,543 |
| 1996 | 643,124 | 291,719 | 248,399 | 112,673 | 187,968 | 85,583 | 273,551 |
| 1997 | 724,668 | 328,707 | 283,379 | 128,540 | 229,222 | 118,128 | 347,350 |
| 1998 | 592,552 | 268,780 | 223,149 | 101,220 | 168,580 | 60,800 | 229,380 |

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

U.S. COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1998

| Species | January | February | March | April | May | June |
|------------------------------------|-----------------------------|---------------|---------------|---------------|---------------|---------------|
| Fish | ----- Thousand pounds ----- | | | | | |
| Saltwater: | | | | | | |
| Blocks and slabs: | | | | | | |
| Cod | 10,036 | 5,871 | 4,134 | 3,609 | 5,077 | 3,655 |
| Flounder and sole | 1,747 | 919 | 633 | 505 | 665 | 2,023 |
| Haddock | 1,337 | 515 | 461 | 384 | 277 | 776 |
| Ocean perch | 161 | 132 | 153 | 213 | 446 | 191 |
| Pollock: | | | | | | |
| Alaska (walleye) | 21,295 | 19,070 | 11,006 | 12,087 | 14,979 | 12,168 |
| Atlantic or other | 6,010 | 8,141 | 6,539 | 8,777 | 8,558 | 10,876 |
| Whiting: | | | | | | |
| Silver (Atl) hake | 600 | 646 | 495 | 420 | 615 | 496 |
| Pacific hake | 78 | 37 | 223 | - | 197 | 42 |
| Minced | 8,475 | 8,384 | 3,646 | 3,845 | 12,232 | 14,594 |
| Unclassified (3) | 2,448 | 2,526 | 1,302 | 1,592 | 2,225 | 3,111 |
| Total, blocks and slabs | 52,187 | 46,241 | 28,592 | 31,432 | 45,271 | 47,932 |
| Fillets and steaks: | | | | | | |
| Cod | 21,215 | 20,518 | 21,628 | 23,914 | 21,412 | 18,830 |
| Flounder and sole | 4,264 | 4,423 | 6,080 | 11,738 | 12,037 | 12,371 |
| Haddock | 3,044 | 2,341 | 2,025 | 860 | 1,485 | 1,796 |
| Halibut | 1,581 | 1,407 | 1,308 | 1,307 | 1,340 | 1,352 |
| Ocean perch | 1,643 | 1,249 | 1,318 | 1,314 | 1,711 | 2,339 |
| Pollock: | | | | | | |
| Alaska (walleye) | 7,515 | 7,820 | 8,176 | 7,839 | 6,105 | 5,899 |
| Atlantic or other | 2,916 | 1,388 | 1,528 | 1,709 | 1,759 | 1,751 |
| Rockfish | 311 | 102 | 194 | 88 | 139 | 257 |
| Salmon | 9,314 | 4,336 | 4,592 | 3,894 | 3,782 | 3,795 |
| Whiting: | | | | | | |
| Silver (Atl) hake | 1,949 | 1,082 | 1,048 | 999 | 1,072 | 2,824 |
| Pacific hake | 2,228 | 1,606 | 1,160 | 817 | 1,180 | 5,215 |
| Unclassified | 23,020 | 18,076 | 22,062 | 19,474 | 13,288 | 11,680 |
| Total, fillets and steaks | 79,000 | 64,348 | 71,119 | 73,953 | 65,310 | 68,109 |
| Round, dressed, etc.: | | | | | | |
| Halibut (exc. California) | 11,267 | 9,162 | 6,850 | 6,548 | 5,920 | 6,324 |
| Sablefish | 1,050 | 796 | 574 | 375 | 535 | 1,147 |
| Salmon: | | | | | | |
| Chinook or king | 2,848 | 2,434 | 1,329 | 1,527 | 1,102 | 1,014 |
| Silver or coho | 3,915 | 3,477 | 2,993 | 2,560 | 2,096 | 1,492 |
| Chum or fall | 22,657 | 19,361 | 15,982 | 12,575 | 8,919 | 6,539 |
| Pink | 5,906 | 4,104 | 2,553 | 1,881 | 1,364 | 1,113 |
| Sockeye | 3,488 | 2,545 | 1,435 | 479 | 280 | 875 |
| Unclassified | 3,348 | 2,971 | 7,432 | 2,061 | 1,533 | 1,899 |
| Total, salmon | 42,162 | 34,892 | 31,724 | 21,083 | 15,294 | 12,932 |
| Whiting: | | | | | | |
| Silver (Atl) hake | 231 | 231 | 24 | 213 | 1,079 | 191 |
| Pacific hake | 463 | 234 | 150 | 138 | 60 | 6 |
| Unclassified (exc bait) | 62,643 | 31,255 | 24,844 | 30,347 | 25,309 | 26,687 |
| Total, round, dressed, etc. | 117,816 | 76,570 | 64,166 | 58,704 | 48,197 | 47,287 |

See footnotes at end of table.

(Continued)

U.S. COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1998 - Continued

| Species | January | February | March | April | May | June |
|--------------------------------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|
| | ----- Thousand pounds ----- | | | | | |
| <u>Fish</u> | | | | | | |
| Fish sticks and portions (2): | 32,210 | 27,293 | 26,333 | 27,465 | 29,146 | 24,065 |
| Analog products | 4,629 | 4,887 | 4,255 | 4,567 | 4,443 | 4,522 |
| Surimi: Pollock | 19,448 | 24,811 | 33,267 | 31,184 | 29,536 | 43,351 |
| Other | 484 | 1,279 | 1,408 | 2,016 | 1,632 | 1,788 |
| Total, saltwater | 305,774 | 245,429 | 229,140 | 229,321 | 223,535 | 237,054 |
| Freshwater: | | | | | | |
| Fillets and steaks | 249 | 230 | 89 | 147 | 140 | 140 |
| Catfish | 12,723 | 9,620 | 10,106 | 11,075 | 10,588 | 10,144 |
| Rainbow trout | 1,364 | 1,293 | 1,172 | 1,084 | 962 | 918 |
| Unclassified (exc bait) | 203 | 161 | 178 | 174 | 215 | 207 |
| Total, freshwater | 14,539 | 11,304 | 11,545 | 12,480 | 11,905 | 11,409 |
| Bait & animal food | 11,079 | 13,357 | 15,084 | 9,898 | 8,498 | 7,230 |
| <u>Shellfish</u> | | | | | | |
| Clams and clam meats | 2,883 | 2,500 | 2,558 | 2,630 | 2,796 | 3,294 |
| Crabs: | | | | | | |
| Dungeness | 2,772 | 2,595 | 2,043 | 1,894 | 1,875 | 1,343 |
| King: | | | | | | |
| Meat | 76 | 70 | 142 | 158 | 160 | 143 |
| Sections | 9,478 | 10,508 | 10,968 | 10,382 | 9,355 | 10,295 |
| Snow: | | | | | | |
| Meat | 894 | 948 | 1,127 | 1,296 | 1,444 | 893 |
| Sections | 3,443 | 13,860 | 24,552 | 38,754 | 31,861 | 32,244 |
| Unclassified | 1,991 | 8,469 | 14,406 | 15,899 | 14,327 | 11,139 |
| Total, crab | 18,654 | 36,450 | 53,238 | 68,383 | 59,022 | 56,057 |
| Lobsters: | | | | | | |
| Spiny (tails) | 4,707 | 4,049 | 3,640 | 2,691 | 2,884 | 2,646 |
| Unclassified (whole & meat) | 1,779 | 2,542 | 1,247 | 988 | 933 | 740 |
| Oyster meats | 550 | 390 | 476 | 703 | 702 | 627 |
| Scallop meats | 3,385 | 3,363 | 2,651 | 2,891 | 3,279 | 3,522 |
| Shrimp: | | | | | | |
| Raw, headless | 10,386 | 8,333 | 4,898 | 4,547 | 3,632 | 3,516 |
| Breaded | 6,660 | 6,520 | 6,298 | 7,441 | 6,152 | 6,779 |
| Peeled | 18,369 | 17,503 | 15,862 | 14,946 | 17,462 | 19,013 |
| Unclassified | 13,539 | 13,663 | 12,667 | 12,958 | 14,571 | 15,294 |
| Total, shrimp | 48,954 | 46,019 | 39,725 | 39,892 | 41,817 | 44,602 |
| Squid | 5,285 | 3,007 | 4,358 | 2,260 | 2,223 | 2,397 |
| Unclassified shellfish | 8,948 | 8,931 | 5,940 | 5,823 | 5,063 | 5,292 |
| Total, shellfish | 95,145 | 107,251 | 113,833 | 126,261 | 118,719 | 119,177 |
| Total, fish and shellfish | 426,537 | 377,341 | 369,602 | 377,960 | 362,657 | 374,870 |
| Cured fish (all categories) | 446 | 483 | 1,342 | 1,834 | 1,551 | 1,535 |
| Grand total | 426,983 | 377,824 | 370,944 | 379,794 | 364,208 | 376,405 |

See footnotes at end of table.

(Continued)

U.S. COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1998 - Continued

| Species | July | August | September | October | November | December |
|------------------------------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|
| Fish | ----- Thousand pounds ----- | | | | | |
| Saltwater: | | | | | | |
| Blocks and slabs: | | | | | | |
| Cod | 4,541 | 5,865 | 4,867 | 5,626 | 5,882 | 6,773 |
| Flounder and sole | 1,005 | 1,697 | 2,501 | 3,798 | 3,611 | 3,269 |
| Haddock | 699 | 548 | 434 | 803 | 878 | 864 |
| Ocean perch | 221 | 154 | 347 | 731 | 861 | 976 |
| Pollock: | | | | | | |
| Alaska (walleye) | 13,517 | 12,377 | 16,791 | 14,857 | 17,728 | 23,866 |
| Atlantic or other | 13,804 | 11,121 | 4,417 | 5,241 | 5,923 | 11,380 |
| Whiting: | | | | | | |
| Silver (Atlantic) hake | 533 | 1,662 | 461 | 528 | 679 | 729 |
| Pacific hake | 385 | 122 | 169 | 257 | 380 | 134 |
| Minced | 14,539 | 12,636 | 11,272 | 12,214 | 12,997 | 16,084 |
| Unclassified (3). | 4,000 | 8,699 | 2,662 | 1,362 | 2,267 | 2,619 |
| Total, blocks and slabs | 53,244 | 54,881 | 43,921 | 45,417 | 51,206 | 66,694 |
| Fillets and steaks: | | | | | | |
| Cod | 19,147 | 16,190 | 14,831 | 13,599 | 13,626 | 13,291 |
| Flounder and sole | 12,400 | 12,406 | 13,138 | 6,544 | 6,294 | 6,270 |
| Haddock | 1,568 | 604 | 1,209 | 1,010 | 1,107 | 1,469 |
| Halibut | 1,171 | 1,459 | 1,466 | 1,599 | 1,507 | 1,472 |
| Ocean perch | 4,297 | 4,393 | 4,585 | 4,255 | 4,131 | 4,656 |
| Pollock: | | | | | | |
| Alaska (walleye) | 5,824 | 4,284 | 6,051 | 15,179 | 13,786 | 12,389 |
| Atlantic or other | 1,623 | 2,313 | 2,436 | 2,539 | 2,964 | 4,144 |
| Rockfish | 300 | 294 | 218 | 186 | 297 | 183 |
| Salmon | 3,949 | 3,325 | 3,256 | 3,633 | 3,142 | 2,810 |
| Whiting: | | | | | | |
| Silver (Atlantic) hake | 3,881 | 4,561 | 4,476 | 3,955 | 30,447 | 4,125 |
| Pacific hake | 3,002 | 3,649 | 3,882 | 3,649 | 3,460 | 5,434 |
| Unclassified | 12,138 | 12,053 | 12,154 | 13,564 | 13,466 | 13,777 |
| Total, fillets and steaks | 69,300 | 65,531 | 67,702 | 69,712 | 94,227 | 70,020 |
| Round, dressed, etc.: | | | | | | |
| Halibut (exc. California) | 7,949 | 9,634 | 10,608 | 9,354 | 8,890 | 6,935 |
| Sablefish | 1,022 | 1,125 | 1,262 | 1,274 | 1,353 | 1,097 |
| Salmon: | | | | | | |
| Chinook or king | 2,612 | 2,531 | 2,849 | 2,479 | 2,121 | 1,803 |
| Silver or coho | 2,196 | 4,491 | 6,565 | 7,309 | 6,092 | 5,272 |
| Chum or fall | 17,609 | 36,764 | 45,742 | 46,740 | 45,037 | 36,691 |
| Pink | 1,219 | 8,716 | 11,431 | 10,484 | 9,809 | 9,274 |
| Sockeye | 908 | 2,111 | 2,145 | 1,474 | 1,135 | 793 |
| Unclassified | 1,717 | 2,695 | 2,808 | 2,736 | 2,548 | 2,790 |
| Total, salmon | 26,261 | 57,308 | 71,540 | 71,222 | 66,742 | 56,623 |
| Whiting: | | | | | | |
| Silver (Atlantic) hake | 273 | 164 | 104 | 94 | 130 | 2,618 |
| Pacific hake | 16 | 1,939 | 1,844 | 1,781 | 1,707 | 1,677 |
| Unclassified (exc bait) | 25,294 | 30,117 | 33,998 | 32,878 | 32,920 | 31,321 |
| Total, round, dressed, etc. | 60,815 | 100,287 | 119,356 | 116,603 | 111,742 | 100,271 |

See footnotes at end of table.

(Continued)

U.S. COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1998 - Continued

| Species | July | August | September | October | November | December |
|--------------------------------------|-----------------------------|----------------|----------------|----------------|----------------|----------------|
| Fish | ----- Thousand pounds ----- | | | | | |
| Fish sticks and portions (2): | 28,074 | 23,580 | 24,484 | 25,227 | 27,176 | 28,231 |
| Analog products | 4,130 | 4,443 | 7,272 | 5,567 | 5,363 | 4,145 |
| Surimi: Pollock | 31,652 | 24,883 | 24,339 | 29,846 | 28,983 | 21,599 |
| Other | 4,923 | 2,227 | 1,618 | 1,358 | 1,072 | 2,095 |
| Total, saltwater | 252,138 | 275,832 | 288,692 | 293,730 | 319,769 | 293,055 |
| Freshwater | | | | | | |
| Fillets and steaks: | 237 | 136 | 145 | 139 | 208 | 174 |
| Catfish | 10,585 | 10,149 | 10,185 | 10,962 | 10,907 | 11,452 |
| Rainbow trout | 1,043 | 790 | 779 | 690 | 819 | 760 |
| Unclassified (exc bait) | 153 | 156 | 80 | 87 | 93 | 139 |
| Total, freshwater | 12,018 | 11,231 | 11,189 | 11,878 | 12,027 | 12,525 |
| Bait & animal food | 6,722 | 6,973 | 7,441 | 6,647 | 6,883 | 6,249 |
| Shellfish | | | | | | |
| Clams and clam meats | 3,033 | 2,766 | 3,157 | 3,037 | 2,998 | 3,291 |
| Crabs: | | | | | | |
| Dungeness | 1,678 | 1,290 | 1,179 | 1,456 | 1,173 | 1,789 |
| King: | | | | | | |
| Meat | 180 | 172 | 437 | 135 | 157 | 165 |
| Sections | 9,257 | 7,360 | 5,893 | 6,246 | 8,220 | 8,725 |
| Snow: | | | | | | |
| Meat | 1,251 | 872 | 1,160 | 1,543 | 1,454 | 1,442 |
| Sections | 27,695 | 21,358 | 18,649 | 13,321 | 8,767 | 6,962 |
| Unclassified | 10,534 | 4,678 | 7,017 | 5,364 | 4,986 | 3,481 |
| Total, crab | 50,595 | 35,730 | 34,335 | 28,065 | 24,757 | 22,564 |
| Lobsters: | | | | | | |
| Spiny (tails) | 2,476 | 2,430 | 2,425 | 2,333 | 2,844 | 3,267 |
| Unclassified (whole & meat) | 1,035 | 761 | 681 | 700 | 800 | 1,113 |
| Oyster meats | 592 | 461 | 428 | 457 | 231 | 290 |
| Scallop meats | 3,028 | 2,389 | 2,253 | 2,491 | 2,563 | 3,474 |
| Shrimp: | | | | | | |
| Raw, headless | 3,471 | 5,501 | 6,794 | 7,341 | 7,989 | 8,764 |
| Breaded | 8,392 | 6,856 | 7,202 | 7,039 | 7,317 | 6,954 |
| Peeled | 20,527 | 19,616 | 22,916 | 24,332 | 21,237 | 20,493 |
| Unclassified | 15,812 | 16,438 | 15,545 | 18,769 | 18,467 | 18,548 |
| Total, shrimp | 48,202 | 48,411 | 52,457 | 57,481 | 55,010 | 54,759 |
| Squid | 3,518 | 2,072 | 1,517 | 1,682 | 1,561 | 1,711 |
| Unclassified shellfish | 4,838 | 4,769 | 5,858 | 5,114 | 6,198 | 5,587 |
| Total, shellfish | 117,317 | 99,789 | 103,111 | 101,360 | 96,962 | 96,056 |
| Total, fish and shellfish | 388,195 | 393,825 | 410,433 | 413,615 | 435,641 | 407,885 |
| Cured fish (all categories) | 1,752 | 2,051 | 2,582 | 1,861 | 1,557 | 1,110 |
| Grand total | 389,947 | 395,876 | 413,015 | 415,476 | 437,198 | 408,995 |

(1) Unclassified may also include blocks and slabs made from species listed separately.

(2) Fish sticks and portions include all species that are either cook or uncooked.

NOTE:--Data includes imported fishery products. Data for these tables were collected from public and private warehouses where fishery products are normally stored for 30 days or more.

FOREIGN TRADE

IMPORTS. U.S. imports of edible fishery products in 1998 were valued at a record \$8.2 billion, \$418.9 million more than in 1997. The quantity of edible imports was 3.6 billion pounds, 308.2 million pounds more than the quantity imported in 1997.

Edible imports consisted of 3.1 billion pounds of fresh and frozen products valued at \$7.4 billion, 428.2 million pounds of canned products valued at \$587.6 million, 72.2 million pounds of cured products valued at \$140.6 million, 4.4 million pounds of caviar and roe products valued at \$33.2 million, and 23.1 million pounds of other products valued at \$55.9 million.

The quantity of shrimp imported in 1998 was 695.4 million pounds, 47.1 million pounds more than the quantity imported in 1997. Valued at \$3.1 billion, shrimp imports accounted for 38 percent of the value of total edible imports. Imports of fresh and frozen tuna were 571.0 million pounds, 132.5 million pounds more than the 438.5 million pounds imported in 1997. Imports of canned tuna were 240.4 million pounds, 28.2 million pounds more than in 1997. Imports of fresh and frozen fillets and steaks amounted to 578.6 million pounds, an increase of 63.8 million pounds from 1997. Regular and minced block imports were 232.8 million pounds, a decrease of 1.1 million pounds from 1997.

Imports of nonedible fishery products were valued at \$7.4 billion -- an increase of \$685.4 million compared

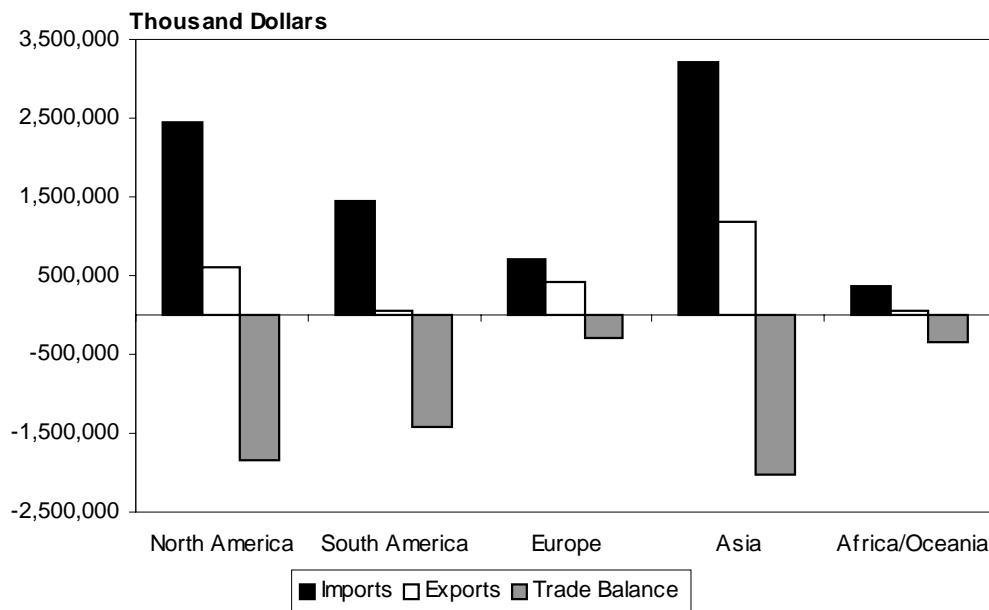
with 1997. The total value of edible and nonedible products was \$15.6 billion in 1998, \$1.1 billion more than in 1998 when \$14.5 billion of fishery products were imported.

EXPORTS. U.S. exports of edible fishery products were 1.7 billion pounds valued at \$2.3 billion, a decrease of 329.9 million pounds and \$445.1 million when compared with 1997. Fresh and frozen items were 1.4 billion pounds valued at \$1.8 billion, a decrease of 331.6 million pounds, and \$346.0 million compared with 1997. In terms of individual items, fresh and frozen exports consisted principally of 153.4 million pounds of salmon valued at \$255.1 million, 255.3 million pounds of surimi valued at \$284.4 million and 43.0 million pounds of lobsters valued at \$187.8 million.

Canned items were 144.2 million pounds valued at \$211.2 million. Salmon was the major canned item exported, with 77.4 million pounds valued at \$143.3 million. Cured items were 15.5 million pounds valued at \$23.2 million. Caviar and roe exports were 72.4 million pounds valued at \$258.0 million.

Exports of nonedible products were valued at \$6.4 billion compared with \$6.6 billion in 1998. Exports of fish meal amounted to 210.7 million pounds valued at \$68.4 million. The total value of edible and nonedible exports was \$8.7 billion--a decrease of \$648.2 million compared with 1997.

U.S. Trade in Edible Fishery Products, 1998



FOREIGN TRADE

IMPORTS

FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1997 AND 1998

| Item | 1997 | | | 1998 | | |
|---|--------------------|------------------|---------------------|--------------------|------------------|---------------------|
| | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds | Metric tons | Thousand dollars |
| Edible fishery products: | | | | | | |
| Fresh and frozen: | | | | | | |
| Whole or eviscerated: | | | | | | |
| Freshwater | 76,224 | 34,575 | 72,031 | 84,161 | 38,175 | 73,450 |
| Flatfish | 36,993 | 16,780 | 70,861 | 38,364 | 17,402 | 70,119 |
| Groundfish | 63,700 | 28,894 | 52,363 | 58,922 | 26,727 | 53,054 |
| Salmon | 162,803 | 73,847 | 344,427 | 152,170 | 69,024 | 319,275 |
| Tuna (1) | 438,493 | 198,899 | 494,181 | 571,000 | 259,004 | 555,766 |
| Other | 253,280 | 114,887 | 330,870 | 260,478 | 118,152 | 320,773 |
| Filletts and steaks: | | | | | | |
| Freshwater | 30,719 | 13,934 | 83,563 | 37,037 | 16,800 | 96,640 |
| Flatfish | 42,679 | 19,359 | 92,067 | 49,506 | 22,456 | 103,614 |
| Groundfish | 176,125 | 79,890 | 334,206 | 186,937 | 84,794 | 356,070 |
| Other | 265,282 | 120,331 | 551,753 | 305,081 | 138,384 | 636,439 |
| Blocks and slabs | 233,972 | 106,129 | 231,008 | 232,843 | 105,617 | 270,686 |
| Surimi | 22,553 | 10,230 | 10,879 | 7,749 | 3,515 | 5,330 |
| Shrimp | 644,702 | 292,435 | 2,942,635 | 692,017 | 313,897 | 3,101,790 |
| Crabmeat | 14,462 | 6,560 | 66,918 | 16,684 | 7,568 | 67,262 |
| Lobster: | | | | | | |
| American | 40,798 | 18,506 | 238,881 | 42,542 | 19,297 | 245,578 |
| Spiny | 24,674 | 11,192 | 242,181 | 21,248 | 9,638 | 230,133 |
| Scallops (meats) | 60,146 | 27,282 | 237,078 | 52,445 | 23,789 | 218,250 |
| Other fish and shellfish | 273,933 | 124,255 | 626,023 | 310,004 | 140,617 | 631,687 |
| Total, fresh and frozen | 2,861,538 | 1,297,985 | 7,021,925 | 3,119,192 | 1,414,856 | 7,355,916 |
| Canned: | | | | | | |
| Anchovy | 6,942 | 3,149 | 22,247 | 6,989 | 3,170 | 21,522 |
| Herring | 1,488 | 675 | 2,078 | 4,325 | 1,962 | 4,846 |
| Mackerel | 28,779 | 13,054 | 15,912 | 24,572 | 11,146 | 11,895 |
| Salmon | 1,228 | 557 | 4,793 | 1,323 | 600 | 4,990 |
| Sardines | 42,771 | 19,401 | 49,302 | 44,328 | 20,107 | 53,740 |
| Tuna | 212,171 | 96,240 | 249,963 | 240,409 | 109,049 | 288,970 |
| Clams | 9,855 | 4,470 | 10,807 | 11,186 | 5,074 | 10,559 |
| Crabmeat | 15,871 | 7,199 | 66,521 | 22,020 | 9,988 | 95,958 |
| Lobsters | 176 | 80 | 1,595 | 121 | 55 | 1,402 |
| Oysters | 9,934 | 4,506 | 24,795 | 13,600 | 6,169 | 25,629 |
| Shrimp | 3,620 | 1,642 | 10,954 | 3,406 | 1,545 | 10,622 |
| Balls, cakes, and puddings | 8,523 | 3,866 | 14,512 | 9,489 | 4,304 | 14,302 |
| Other fish and shellfish | 45,732 | 20,744 | 51,832 | 46,409 | 21,051 | 43,124 |
| Total, canned | 387,090 | 175,583 | 525,311 | 428,177 | 194,220 | 587,559 |
| Cured: | | | | | | |
| Dried | 21,914 | 9,940 | 58,030 | 19,687 | 8,930 | 55,281 |
| Pickled or salted | 36,887 | 16,732 | 46,698 | 41,693 | 18,912 | 56,899 |
| Smoked or kippered | 10,234 | 4,642 | 26,875 | 10,836 | 4,915 | 28,381 |
| Total, cured | 69,035 | 31,314 | 131,603 | 72,216 | 32,757 | 140,561 |
| Caviar and roe | 4,286 | 1,944 | 31,169 | 4,358 | 1,977 | 33,215 |
| Prepared meals | 3,336 | 1,513 | 12,243 | 3,197 | 1,450 | 10,330 |
| Other fish and shellfish | 13,565 | 6,153 | 31,992 | 19,883 | 9,019 | 45,604 |
| Total edible fishery products | 3,338,849 | 1,514,492 | 7,754,243 | 3,647,023 | 1,654,279 | 8,173,185 |
| Nonedible fishery products: | | | | | | |
| Meal and scrap | 142,049 | 64,433 | 36,484 | 125,404 | 56,883 | 33,574 |
| Fish oils | 25,622 | 11,622 | 23,388 | 24,213 | 10,983 | 19,604 |
| Other | - | - | 6,714,211 | - | - | 7,406,309 |
| Total nonedible fishery products | - | - | 6,774,083 | - | - | 7,459,487 |
| Grand total | - | - | 14,528,326 | - | - | 15,632,672 |

(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, headed, etc.

Imports and Exports of Fishery Products, Annual Summary, 1998, Current Fishery Statistics No. 9802 provides additional information.

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

FOREIGN TRADE

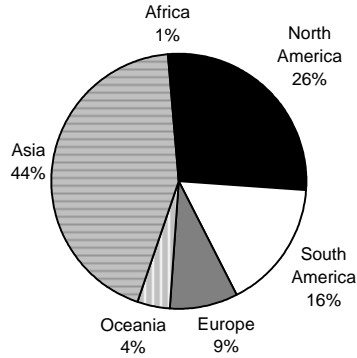
IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1989-98

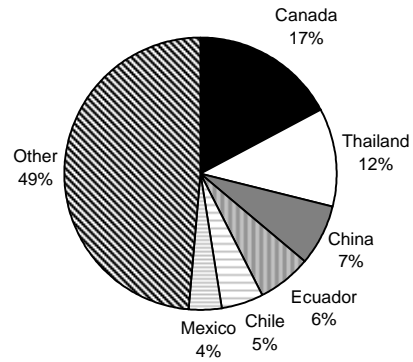
| Year | Edible | | Nonedible | Total |
|------|-----------------|-------------|-----------|------------|
| | Thousand pounds | Metric tons | | |
| 1989 | 3,243,022 | 1,471,025 | 5,497,849 | 9,604,356 |
| 1990 | 2,884,596 | 1,308,444 | 5,233,167 | 9,047,680 |
| 1991 | 3,014,819 | 1,367,513 | 5,671,887 | 9,435,060 |
| 1992 | 2,893,954 | 1,312,689 | 5,705,876 | 9,871,262 |
| 1993 | 2,917,160 | 1,323,215 | 5,848,738 | 10,622,387 |
| 1994 | 3,034,841 | 1,376,595 | 6,645,132 | 11,986,872 |
| 1995 | 3,066,458 | 1,390,936 | 6,791,690 | 12,451,623 |
| 1996 | 3,169,787 | 1,437,806 | 6,729,614 | 13,060,355 |
| 1997 | 3,338,849 | 1,514,492 | 7,754,243 | 14,528,326 |
| 1998 | 3,647,023 | 1,654,279 | 8,173,185 | 15,632,672 |

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

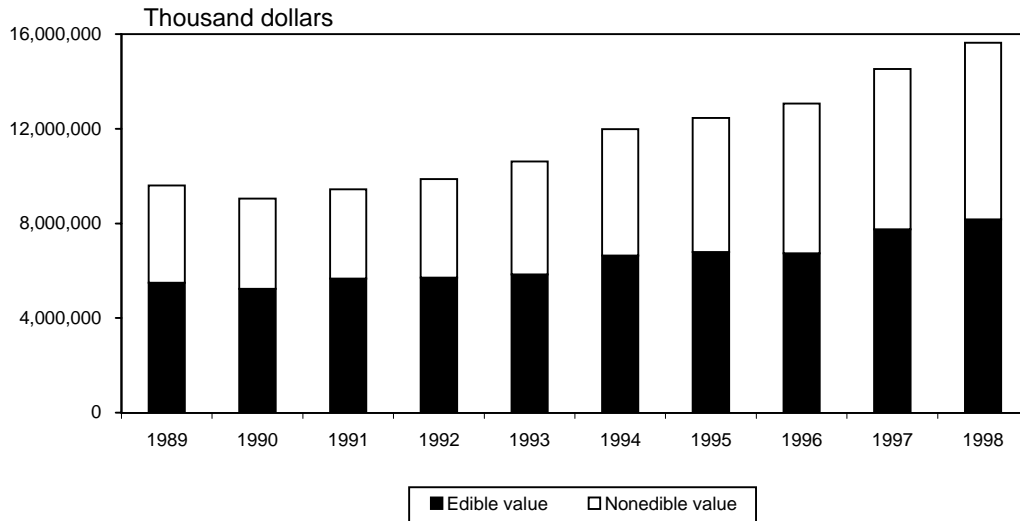
U.S. Imports from Major Areas by Volume



U.S. Imports from Major Exporters by Volume



U.S. FISHERY PRODUCT IMPORTS



FOREIGN TRADE

IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1998

| Continent and Country | Edible | | Nonedible | Total | |
|----------------------------|--------------------|------------------|------------------|------------------|-------------------|
| | Thousand pounds | Metric tons | | | |
| -----Thousand dollars----- | | | | | |
| North America: | | | | | |
| Canada | 627,932 | 284,828 | 1,405,485 | 834,062 | 2,239,547 |
| Mexico | 141,601 | 64,230 | 478,954 | 231,231 | 710,185 |
| Dominican Republic | 231 | 105 | 1,134 | 149,104 | 150,238 |
| Panama | 42,511 | 19,283 | 122,445 | 6,865 | 129,310 |
| Honduras | 31,867 | 14,455 | 107,467 | 15 | 107,482 |
| Other | 112,166 | 50,878 | 331,365 | 87,867 | 419,232 |
| Total | 956,309 | 433,779 | 2,446,850 | 1,309,144 | 3,755,994 |
| South America: | | | | | |
| Ecuador | 234,633 | 106,429 | 697,214 | 10,573 | 707,787 |
| Chile | 179,005 | 81,196 | 369,245 | 26,686 | 395,931 |
| Peru | 25,029 | 11,353 | 59,349 | 64,991 | 124,340 |
| Brazil | 17,751 | 8,052 | 61,560 | 51,482 | 113,042 |
| Argentina | 69,449 | 31,502 | 87,492 | 14,169 | 101,661 |
| Other | 70,459 | 31,960 | 163,023 | 56,048 | 219,071 |
| Total | 596,327 | 270,492 | 1,437,883 | 223,949 | 1,661,832 |
| Europe: | | | | | |
| European Union: | | | | | |
| Italy | 1,023 | 464 | 3,095 | 1,464,357 | 1,467,452 |
| France | 10,093 | 4,578 | 8,644 | 639,449 | 648,093 |
| Germany | 1,530 | 694 | 2,469 | 279,032 | 281,501 |
| United Kingdom | 12,555 | 5,695 | 27,325 | 175,442 | 202,767 |
| Netherlands | 7,857 | 3,564 | 24,772 | 78,134 | 102,906 |
| Other | 26,989 | 12,242 | 61,872 | 163,104 | 224,976 |
| Total | 60,047 | 27,237 | 128,177 | 2,799,518 | 2,927,695 |
| Other: | | | | | |
| Russian Federation | 111,998 | 50,802 | 253,794 | 2,460 | 256,254 |
| Iceland | 79,784 | 36,190 | 188,364 | 10,250 | 198,614 |
| Turkey | 730 | 331 | 1,848 | 165,735 | 167,583 |
| Norway | 53,843 | 24,423 | 118,391 | 20,300 | 138,691 |
| Switzerland | 126 | 57 | 73 | 119,780 | 119,853 |
| Other | 7,890 | 3,579 | 20,168 | 45,630 | 65,798 |
| Total | 254,371 | 115,382 | 582,638 | 364,155 | 946,793 |
| Asia: | | | | | |
| Thailand | 427,267 | 193,807 | 1,393,297 | 389,748 | 1,783,045 |
| Japan | 119,304 | 54,116 | 194,284 | 514,497 | 708,781 |
| India | 74,321 | 33,712 | 182,135 | 430,620 | 612,755 |
| China | 263,871 | 119,691 | 324,569 | 236,205 | 560,774 |
| Hong Kong | 6,651 | 3,017 | 10,206 | 463,333 | 473,539 |
| Other | 687,011 | 311,626 | 1,104,714 | 615,098 | 1,719,812 |
| Total | 1,578,425 | 715,969 | 3,209,205 | 2,649,501 | 5,858,706 |
| Oceania: | | | | | |
| New Zealand | 83,001 | 37,649 | 140,234 | 6,437 | 146,671 |
| Australia | 27,959 | 12,682 | 78,085 | 36,963 | 115,048 |
| French Polynesia | 1,058 | 480 | 1,949 | 27,023 | 28,972 |
| Fiji | 18,031 | 8,179 | 20,096 | 2,296 | 22,392 |
| Western Samoa | 9,504 | 4,311 | 10,325 | 78 | 10,403 |
| Other | 9,720 | 4,409 | 9,839 | 1,759 | 11,598 |
| Total | 149,273 | 67,710 | 260,528 | 74,556 | 335,084 |
| Africa: | | | | | |
| South Africa | 18,177 | 8,245 | 38,731 | 14,364 | 53,095 |
| Namibia | 11,239 | 5,098 | 30,764 | 120 | 30,884 |
| Morocco | 8,583 | 3,893 | 20,174 | 4,723 | 24,897 |
| Zimbabwe | 0 | 0 | 0 | 9,700 | 9,700 |
| Tanzania | 2,566 | 1,164 | 4,183 | 5,051 | 9,234 |
| Other | 11,706 | 5,310 | 14,052 | 4,706 | 18,758 |
| Total | 52,271 | 23,710 | 107,904 | 38,664 | 146,568 |
| Grand total | 3,647,023 | 1,654,279 | 8,173,185 | 7,459,487 | 15,632,672 |

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, 1997 AND 1998

| Species and type | 1997 | | | 1998 | | |
|----------------------------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| Regular blocks and slabs: | | | | | | |
| Cod | 32,723 | 14,843 | 49,872 | 30,538 | 13,852 | 63,265 |
| Flatfish | 6,951 | 3,153 | 11,050 | 7,328 | 3,324 | 12,662 |
| Haddock | 14,650 | 6,645 | 21,378 | 9,517 | 4,317 | 20,133 |
| Ocean perch | 578 | 262 | 863 | 520 | 236 | 990 |
| Pollock | 133,528 | 60,568 | 101,772 | 124,470 | 56,459 | 113,989 |
| Whiting | 17,368 | 7,878 | 16,339 | 18,960 | 8,600 | 18,328 |
| Other | 9,630 | 4,368 | 12,069 | 14,337 | 6,503 | 19,513 |
| Total | 215,427 | 97,717 | 213,343 | 205,669 | 93,291 | 248,880 |
| Minced blocks and slabs | 18,545 | 8,412 | 17,665 | 27,174 | 12,326 | 21,806 |
| Grand total | 233,972 | 106,129 | 231,008 | 232,843 | 105,617 | 270,686 |

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

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY COUNTRY OF ORIGIN, 1997 AND 1998

| Country | 1997 | | | 1998 | | |
|-----------------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| Russian Federation | 67,833 | 30,769 | 58,146 | 66,579 | 30,200 | 72,956 |
| China | 81,052 | 36,765 | 61,042 | 87,106 | 39,511 | 70,029 |
| Norway | 18,219 | 8,264 | 26,415 | 8,777 | 3,981 | 18,358 |
| Iceland | 9,806 | 4,448 | 14,917 | 9,259 | 4,200 | 18,251 |
| Canada | 13,774 | 6,248 | 16,587 | 11,984 | 5,436 | 17,970 |
| Denmark | 6,252 | 2,836 | 10,404 | 7,551 | 3,425 | 16,412 |
| Argentina | 10,487 | 4,757 | 8,827 | 14,544 | 6,597 | 14,247 |
| Indonesia | 1,213 | 550 | 1,974 | 3,913 | 1,775 | 8,321 |
| St. Pierre & Miquelon | 862 | 391 | 1,349 | 1,706 | 774 | 3,677 |
| Other | 24,473 | 11,101 | 31,347 | 21,424 | 9,718 | 30,465 |
| Total | 233,972 | 106,129 | 231,008 | 232,843 | 105,617 | 270,686 |

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

GROUND FISH FILLET AND STEAK IMPORTS, BY SPECIES, 1997 AND 1998 (1)

| Species | 1997 | | | 1998 | | |
|--------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| Cod | 95,051 | 43,115 | 210,068 | 77,794 | 35,287 | 194,193 |
| Haddock (2) | 59,848 | 27,147 | 84,788 | 83,303 | 37,786 | 108,668 |
| Ocean perch | 21,226 | 9,628 | 39,350 | 25,840 | 11,721 | 53,209 |
| Total | 176,125 | 79,890 | 334,206 | 186,937 | 84,794 | 356,070 |

(1) Does not include data on fish blocks and slabs.

(2) Includes some quantities of cusk, hake, and pollock fillets.

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

FOREIGN TRADE

IMPORTS

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1989-98

| Year | Quota (1) | | Over quota (2) | | Total | |
|------|--------------------|----------------|--------------------|----------------|--------------------|----------------|
| | Thousand pounds | Metric tons | Thousand pounds | Metric tons | Thousand pounds | Metric tons |
| 1989 | 76,733 | 34,806 | 234,323 | 106,288 | 311,056 | 141,094 |
| 1990 | 87,157 | 39,534 | 171,472 | 77,779 | 258,628 | 117,313 |
| 1991 | 75,093 | 34,062 | 237,237 | 107,610 | 312,330 | 141,672 |
| 1992 | 73,724 | 33,441 | 259,739 | 117,817 | 333,463 | 151,258 |
| 1993 | 72,681 | 32,968 | 144,287 | 65,448 | 216,968 | 98,416 |
| 1994 | 73,294 | 33,246 | 168,224 | 76,306 | 241,518 | 109,552 |
| 1995 | 73,367 | 33,279 | 126,176 | 57,233 | 199,543 | 90,512 |
| 1996 | 80,027 | 36,300 | 117,205 | 53,164 | 197,232 | 89,464 |
| 1997 | 78,620 | 35,662 | 139,714 | 63,374 | 218,335 | 99,036 |
| 1998 | 67,317 | 30,535 | 176,648 | 80,127 | 243,965 | 110,662 |

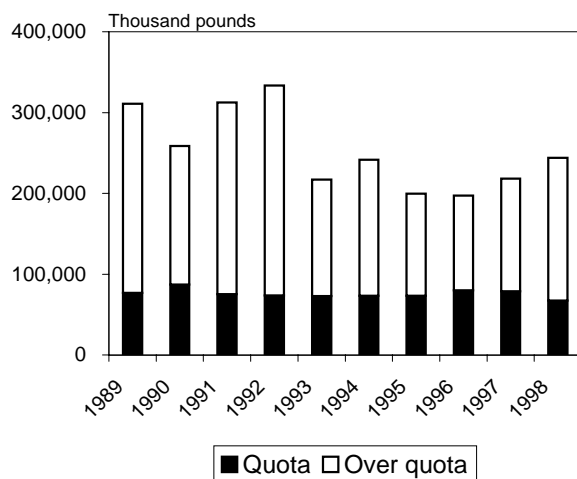
(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack, excluding the pack in American Samoa. Dutiable in 1956 to 1967 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; 1970, 8.5 percent; 1971, 7 percent; and 1972 to 1998, 6 percent.

(2) Dutiable in 1972 to 1998, 12.5 percent.

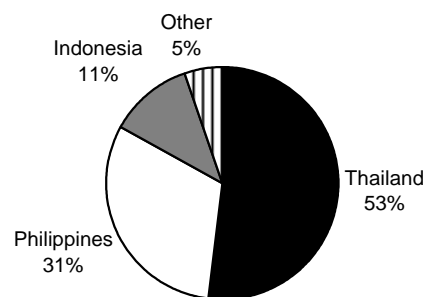
Note:--Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calendar year, except for receipts for possessions of the U.S., is subject to this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

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

Canned Tuna Quota and Imports



Imports of Canned Tuna by Major Exporter, 1998



CANNED TUNA, BY COUNTRY OF ORIGIN, 1997 AND 1998

| Country | 1997 | | | 1998 | | |
|------------------|--------------------|----------------|---------------------|--------------------|----------------|---------------------|
| | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds | Metric tons | Thousand dollars |
| Thailand | 99,513 | 45,139 | 129,163 | 114,302 | 51,847 | 150,367 |
| Philippines | 80,677 | 36,595 | 80,161 | 85,726 | 38,885 | 89,899 |
| Indonesia | 20,911 | 9,485 | 27,215 | 27,705 | 12,567 | 33,221 |
| Malaysia | 2,784 | 1,263 | 4,894 | 2,396 | 1,087 | 3,844 |
| Papua New Guinea | 106 | 48 | 116 | 3,472 | 1,575 | 3,525 |
| Mexico | 4,868 | 2,208 | 3,789 | 3,541 | 1,606 | 2,947 |
| Ecuador | 1,058 | 480 | 1,033 | 1,526 | 692 | 2,549 |
| Spain | 196 | 89 | 499 | 258 | 117 | 751 |
| India | 71 | 32 | 127 | 258 | 117 | 410 |
| Other | 1,986 | 901 | 2,966 | 1,226 | 556 | 1,457 |
| Total | 212,171 | 96,240 | 249,963 | 240,409 | 109,049 | 288,970 |

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

FOREIGN TRADE

IMPORTS

SHRIMP IMPORTS, BY COUNTRY OF ORIGIN, 1997 AND 1998

| Country | 1997 | | | 1998 | | |
|-----------------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| North America: | | | | | | |
| Mexico | 74,864 | 33,958 | 374,102 | 78,120 | 35,435 | 382,517 |
| Panama | 23,236 | 10,540 | 87,128 | 22,465 | 10,190 | 91,552 |
| Honduras | 18,027 | 8,177 | 70,177 | 18,990 | 8,614 | 67,152 |
| Canada | 11,254 | 5,105 | 26,326 | 17,366 | 7,877 | 45,901 |
| Nicaragua | 7,564 | 3,431 | 28,663 | 8,373 | 3,798 | 31,298 |
| El Salvador | 7,390 | 3,352 | 29,974 | 8,838 | 4,009 | 30,906 |
| Guatemala | 4,773 | 2,165 | 19,055 | 5,223 | 2,369 | 18,807 |
| Belize | 1,625 | 737 | 7,399 | 3,056 | 1,386 | 11,119 |
| Costa Rico | 3,951 | 1,792 | 15,870 | 1,832 | 831 | 10,832 |
| Greenland | 820 | 372 | 1,873 | 1,082 | 491 | 2,773 |
| Other | 79 | 36 | 235 | 35 | 16 | 124 |
| Total | 153,583 | 69,665 | 660,802 | 165,380 | 75,016 | 692,981 |
| South America: | | | | | | |
| Ecuador | 140,517 | 63,738 | 583,262 | 142,303 | 64,548 | 572,047 |
| Venezuela | 19,098 | 8,663 | 76,162 | 12,615 | 5,722 | 47,698 |
| Peru | 9,883 | 4,483 | 45,577 | 15,315 | 6,947 | 45,499 |
| Guyana | 9,453 | 4,288 | 25,675 | 12,414 | 5,631 | 29,717 |
| Colombia | 7,172 | 3,253 | 28,539 | 4,694 | 2,129 | 20,978 |
| Brazil | 1,215 | 551 | 4,856 | 1,812 | 822 | 7,382 |
| Suriname | 1,396 | 633 | 4,255 | 1,938 | 879 | 4,253 |
| Chile | 750 | 340 | 2,740 | 979 | 444 | 3,457 |
| Argentina | 42 | 19 | 46 | 66 | 30 | 200 |
| Total | 189,525 | 85,968 | 771,112 | 192,135 | 87,152 | 731,231 |
| Europe: | | | | | | |
| European Union: | | | | | | |
| United Kingdom | 53 | 24 | 204 | 79 | 36 | 238 |
| Denmark | 397 | 180 | 798 | 88 | 40 | 234 |
| Germany | 35 | 16 | 68 | 73 | 33 | 200 |
| Sweden | 4 | 2 | 23 | 13 | 6 | 104 |
| Netherlands | 11 | 5 | 29 | 35 | 16 | 68 |
| Other | 123 | 27 | 292 | 141 | 12 | 79 |
| Total | 560 | 254 | 1,414 | 315 | 143 | 923 |
| Other: | | | | | | |
| Norway | 119 | 54 | 372 | 831 | 377 | 2,394 |
| Iceland | 313 | 142 | 999 | 789 | 358 | 2,136 |
| Russian Federation | - | - | - | 194 | 88 | 395 |
| Bulgaria | - | - | - | 37 | 17 | 272 |
| Total | 432 | 196 | 1,371 | 1,852 | 840 | 5,197 |
| Asia: | | | | | | |
| Thailand | 161,822 | 73,402 | 920,946 | 203,407 | 92,265 | 1,088,062 |
| Indonesia | 28,272 | 12,824 | 161,615 | 33,697 | 15,285 | 188,739 |
| India | 44,103 | 20,005 | 138,698 | 44,425 | 20,151 | 150,847 |
| Bangladesh | 21,539 | 9,770 | 132,487 | 13,929 | 6,318 | 90,847 |
| Viet Nam | 7,837 | 3,555 | 46,234 | 11,087 | 5,029 | 75,909 |
| China | 28,393 | 12,879 | 67,763 | 15,423 | 6,996 | 35,936 |
| Philippines | 2,617 | 1,187 | 12,983 | 3,915 | 1,776 | 20,073 |
| Sri Lanka | 414 | 188 | 2,299 | 1,442 | 654 | 8,423 |
| Pakistan | 2,967 | 1,346 | 11,111 | 3,186 | 1,445 | 6,852 |
| Malaysia | 708 | 321 | 2,940 | 1,612 | 731 | 4,482 |
| Other | 5,157 | 2,339 | 21,054 | 3,424 | 1,553 | 11,203 |
| Total | 303,829 | 137,816 | 1,518,130 | 335,547 | 152,203 | 1,681,373 |
| Oceania | 35 | 16 | 276 | 82 | 37 | 375 |
| Africa | 357 | 162 | 484 | 112 | 51 | 332 |
| Grand total | 648,322 | 294,077 | 2,953,589 | 695,423 | 315,442 | 3,112,412 |

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

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

FOREIGN TRADE

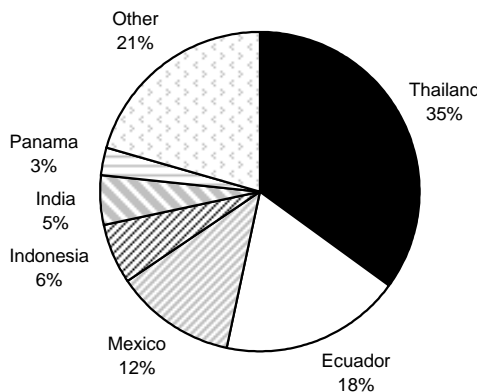
IMPORTS

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1997 AND 1998

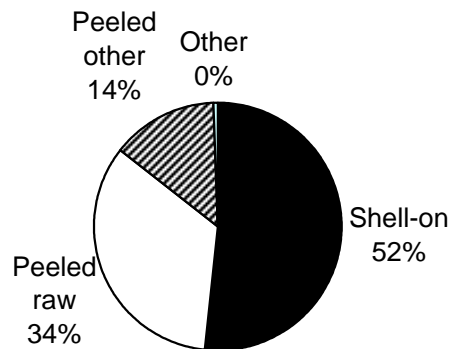
| Type of product | 1997 | | | 1998 | | |
|----------------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| Shell-on (heads off) | 343,642 | 155,875 | 1,626,734 | 341,894 | 155,082 | 1,607,185 |
| Peeled: | | | | | | |
| Canned | 3,620 | 1,642 | 10,954 | 3,406 | 1,545 | 10,622 |
| Not breaded: | | | | | | |
| Raw | 235,550 | 106,845 | 952,130 | 264,378 | 119,921 | 1,053,583 |
| Other | 65,060 | 29,511 | 361,538 | 85,128 | 38,614 | 438,206 |
| Breaded | 450 | 204 | 2,233 | 617 | 280 | 2,816 |
| Total | 648,322 | 294,077 | 2,953,589 | 695,423 | 315,442 | 3,112,412 |

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

**Shrimp Imports by Major Exporter,
1998**



**Shrimp Imports by Type,
1998**



FISH MEAL AND SCRAP IMPORTS, BY COUNTRY OF ORIGIN, 1997 AND 1998

| Country | 1997 | | | 1998 | | |
|--------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| Iceland | 17,485 | 7,931 | 5,229 | 34,908 | 15,834 | 9,594 |
| Canada | 16,788 | 7,615 | 5,671 | 16,144 | 7,323 | 5,742 |
| Panama | 20,046 | 9,093 | 3,923 | 29,021 | 13,164 | 5,079 |
| Mexico | 32,968 | 14,954 | 7,858 | 17,141 | 7,775 | 4,604 |
| Chile | 6,276 | 2,847 | 1,602 | 13,971 | 6,337 | 4,218 |
| Peru | 47,862 | 21,710 | 11,017 | 10,430 | 4,731 | 2,628 |
| Japan | 106 | 48 | 671 | 1,343 | 609 | 700 |
| Denmark | 42 | 19 | 12 | 785 | 356 | 300 |
| China | 40 | 18 | 72 | 238 | 108 | 200 |
| Other | 437 | 198 | 429 | 1,424 | 646 | 509 |
| Total | 142,049 | 64,433 | 36,484 | 125,404 | 56,883 | 33,574 |

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

FOREIGN TRADE

EXPORTS

FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1997 AND 1998 (1)

| Item | 1997 | | | 1998 | | |
|---|--------------------|----------------|---------------------|--------------------|----------------|---------------------|
| | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds | Metric tons | Thousand dollars |
| Edible fishery products: | | | | | | |
| Fresh and frozen: | | | | | | |
| Whole or eviscerated: | | | | | | |
| Freshwater | 7,972 | 3,616 | 8,330 | 4,751 | 2,155 | 6,081 |
| Flatfish | 238,637 | 108,245 | 148,158 | 164,856 | 74,778 | 103,219 |
| Groundfish | 129,915 | 58,929 | 97,640 | 95,735 | 43,425 | 74,817 |
| Herring | 87,633 | 39,750 | 48,245 | 49,661 | 22,526 | 31,164 |
| Sablefish | 28,770 | 13,050 | 64,314 | 22,707 | 10,300 | 48,253 |
| Salmon | 189,942 | 86,157 | 307,521 | 153,436 | 69,598 | 255,102 |
| Tuna | 24,092 | 10,928 | 34,527 | 34,026 | 15,434 | 37,551 |
| Other | 264,612 | 120,027 | 226,043 | 281,732 | 127,793 | 211,791 |
| Filletts, and steaks: | | | | | | |
| Freshwater | 379 | 172 | 747 | 520 | 236 | 1,123 |
| Groundfish | 23,367 | 10,599 | 25,820 | 63,481 | 28,795 | 63,478 |
| Other | 31,268 | 14,183 | 47,608 | 37,015 | 16,790 | 54,316 |
| Blocks and slabs | 64,101 | 29,076 | 61,786 | 44,848 | 20,343 | 45,820 |
| Surimi | 310,242 | 140,725 | 330,976 | 255,317 | 115,811 | 248,415 |
| Fish sticks | 25,009 | 11,344 | 31,508 | 25,734 | 11,673 | 30,354 |
| Clams | 1,803 | 818 | 3,867 | 1,649 | 748 | 2,825 |
| Crabs | 43,133 | 19,565 | 108,661 | 50,739 | 23,015 | 108,994 |
| Crabmeat | 3,399 | 1,542 | 7,818 | 3,278 | 1,487 | 5,568 |
| Lobsters | 47,249 | 21,432 | 208,646 | 42,972 | 19,492 | 187,762 |
| Scallops (meats) | 9,861 | 4,473 | 37,116 | 7,306 | 3,314 | 25,055 |
| Sea urchins | 7,321 | 3,321 | 19,177 | 4,220 | 1,914 | 10,063 |
| Shrimp | 34,813 | 15,791 | 133,442 | 32,432 | 14,711 | 121,397 |
| Squid | 169,509 | 76,889 | 91,996 | 37,595 | 17,053 | 31,839 |
| Other fish and shellfish | 34,081 | 11,843 | 60,784 | 28,283 | 10,674 | 53,773 |
| Total, fresh and frozen | 1,769,136 | 802,475 | 2,104,730 | 1,437,542 | 652,065 | 1,758,760 |
| Canned: | | | | | | |
| Salmon | 81,621 | 37,023 | 135,437 | 77,450 | 35,131 | 143,288 |
| Sardines | 9,321 | 4,228 | 8,115 | 6,314 | 2,864 | 4,963 |
| Tuna | 9,967 | 4,521 | 15,649 | 9,319 | 4,227 | 15,437 |
| Abalone | 392 | 178 | 7,884 | 238 | 108 | 4,656 |
| Crabmeat | 608 | 276 | 1,332 | 558 | 253 | 1,374 |
| Shrimp | 1,470 | 667 | 7,029 | 1,660 | 753 | 8,732 |
| Squid | 5,725 | 2,597 | 3,504 | 132 | 60 | 155 |
| Other fish and shellfish | 20,386 | 9,247 | 23,761 | 48,570 | 22,031 | 32,596 |
| Total, canned | 129,492 | 58,737 | 202,711 | 144,240 | 65,427 | 211,201 |
| Cured: | | | | | | |
| Dried | 3,221 | 1,461 | 10,347 | 2,434 | 1,104 | 6,215 |
| Pickled or salted | 6,691 | 3,035 | 8,048 | 12,624 | 5,726 | 15,323 |
| Smoked or kippered | 679 | 308 | 2,503 | 430 | 195 | 1,673 |
| Total, cured | 10,591 | 4,804 | 20,898 | 15,487 | 7,025 | 23,211 |
| Caviar and roe: | | | | | | |
| Herring | 18,483 | 8,384 | 19,763 | 15,095 | 6,847 | 17,788 |
| Pollock | 37,209 | 16,878 | 162,422 | 26,746 | 12,132 | 84,714 |
| Salmon | 17,491 | 7,934 | 63,487 | 15,800 | 7,167 | 50,950 |
| Sea urchin | 6,049 | 2,744 | 87,090 | 4,656 | 2,112 | 73,589 |
| Other | 10,725 | 4,865 | 36,361 | 10,086 | 4,575 | 30,955 |
| Total, caviar and roe | 89,959 | 40,805 | 369,123 | 72,384 | 32,833 | 257,996 |
| Prepared meals | 1,852 | 840 | 2,591 | 3,508 | 1,591 | 4,238 |
| Other fish and shellfish | 17,859 | 8,101 | 13,029 | 15818.005 | 7,175 | 12,614 |
| Total edible fishery products | 2,018,889 | 915,762 | 2,713,082 | 1,688,979 | 766,116 | 2,268,020 |
| Nonedible fishery products: | | | | | | |
| Meal and scrap | 216,289 | 98,108 | 57,197 | 210,658 | 95,554 | 68,447 |
| Fish oils | 215,255 | 97,639 | 53,716 | 196,664 | 89,206 | 59,890 |
| Other | - | - | 6,583,336 | - | - | 6,368,938 |
| Total nonedible fishery products | - | - | 6,640,533 | - | - | 6,437,385 |
| Grand total | - | - | 9,353,615 | - | - | 8,705,405 |

(1) Figures reflect both domestic and foreign (re-exports).

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

FOREIGN TRADE

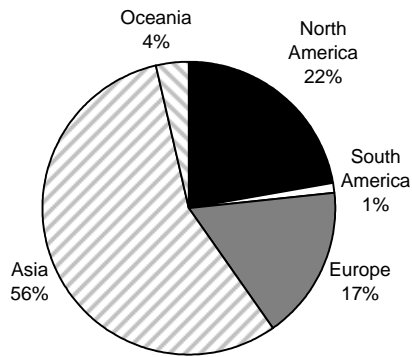
EXPORTS

FISHERY PRODUCTS EXPORTS, 1989-98 (1)

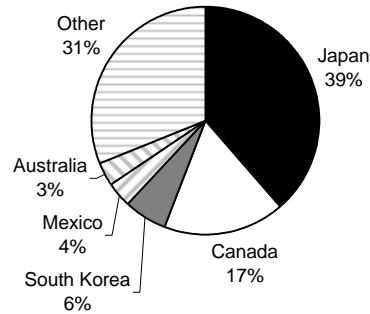
| Year | Edible | | Nonedible | Total |
|------|--------------------|----------------|----------------------------|-----------|
| | Thousand pounds | Metric tons | | |
| | | | -----Thousand dollars----- | |
| 1989 | 1,405,977 | 637,747 | 2,355,603 | 4,938,141 |
| 1990 | 1,947,292 | 883,286 | 2,881,262 | 5,965,939 |
| 1991 | 2,058,594 | 933,772 | 3,155,771 | 6,541,808 |
| 1992 | 2,087,606 | 946,932 | 3,465,667 | 7,119,632 |
| 1993 | 1,986,027 | 900,856 | 3,076,813 | 6,924,724 |
| 1994 | 1,978,507 | 897,445 | 3,126,120 | 7,380,861 |
| 1995 | 2,047,181 | 928,595 | 3,262,242 | 8,268,120 |
| 1996 | 2,112,055 | 958,022 | 3,032,282 | 8,653,451 |
| 1997 | 2,018,889 | 915,762 | 2,713,082 | 9,353,635 |
| 1998 | 1,688,979 | 766,116 | 2,268,020 | 8,705,405 |

(1) Figures reflect both domestic and foreign (re-exports).
 Source:--U.S. Department of Commerce, Bureau of the Census.

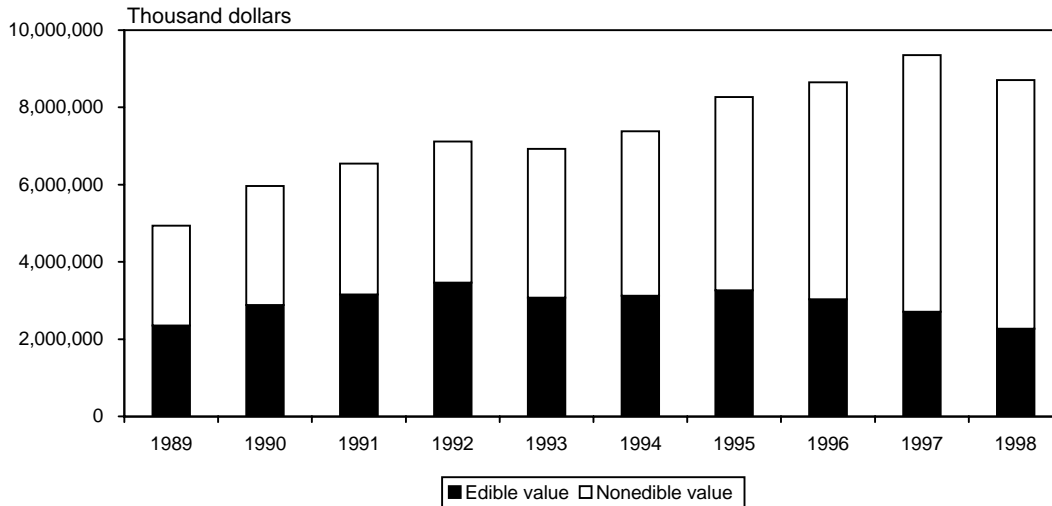
**U.S. Exports to Major Areas by
Volume, 1998**



**U.S. Exports to Major Importers by
Volume, 1998**



U.S. FISHERY PRODUCT EXPORTS



FOREIGN TRADE

EXPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 1998 (1)

| Continent and Country | Edible | | Nonedible | Total | |
|------------------------|----------------------------|------------------------|----------------------------|------------------|------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | | | |
| | | | -----Thousand dollars----- | | |
| North America: | | | | | |
| Canada | 288,421 | 130,827 | 501,694 | 1,394,050 | 1,895,744 |
| Mexico | 60,221 | 27,316 | 62,308 | 608,273 | 670,581 |
| Netherlands Antilles | 1,116 | 506 | 1,800 | 92,198 | 93,998 |
| Panama | 3,223 | 1,462 | 4,078 | 64,154 | 68,232 |
| Dominican Republic | 3,296 | 1,495 | 3,394 | 60,357 | 63,751 |
| Other | 17,956 | 8,145 | 25,510 | 254,409 | 279,919 |
| Total | 374,233 | 169,751 | 598,784 | 2,473,441 | 3,072,225 |
| South America: | | | | | |
| Brazil | 3,849 | 1,746 | 6,351 | 203,832 | 210,183 |
| Argentina | 485 | 220 | 499 | 83,934 | 84,433 |
| Venezuela | 4,257 | 1,931 | 2,857 | 61,806 | 64,663 |
| Colombia | 3,311 | 1,502 | 3,419 | 50,642 | 54,061 |
| Chile | 485 | 220 | 402 | 45,309 | 45,711 |
| Other | 5,631 | 2,554 | 6,373 | 87,508 | 93,881 |
| Total | 18,018 | 8,173 | 19,901 | 533,031 | 552,932 |
| Europe: | | | | | |
| European Union: | | | | | |
| United Kingdom | 44,200 | 20,049 | 86,492 | 279,981 | 366,473 |
| Netherlands | 20,302 | 9,209 | 27,723 | 201,068 | 228,791 |
| France | 51,316 | 23,277 | 85,774 | 114,526 | 200,300 |
| Germany | 34,019 | 15,431 | 42,539 | 155,589 | 198,128 |
| Belgium | 5,884 | 2,669 | 11,677 | 141,708 | 153,385 |
| Other | 89,888 | 40,773 | 127,626 | 295,159 | 422,785 |
| Total | 245,610 | 111,408 | 381,831 | 1,188,031 | 1,569,862 |
| Other: | | | | | |
| Switzerland | 851 | 386 | 2,924 | 240,511 | 243,435 |
| Norway | 25,371 | 11,508 | 23,436 | 18,796 | 42,232 |
| Russian Federation | 4,733 | 2,147 | 5,482 | 17,571 | 23,053 |
| Estonia | 1,087 | 493 | 2,848 | 11,776 | 14,624 |
| Turkey | 198 | 90 | 215 | 10,358 | 10,573 |
| Other | 10,690 | 4,849 | 7,122 | 38,728 | 45,850 |
| Total | 42,930 | 19,473 | 42,027 | 337,740 | 379,767 |
| Asia: | | | | | |
| Japan | 654,297 | 296,787 | 914,096 | 639,068 | 1,553,164 |
| Hong Kong | 14,281 | 6,478 | 30,441 | 302,296 | 332,737 |
| South Korea | 103,709 | 47,042 | 93,474 | 96,769 | 190,243 |
| Taiwan | 21,755 | 9,868 | 40,169 | 119,585 | 159,754 |
| Singapore | 2,163 | 981 | 7,231 | 120,393 | 127,624 |
| Other | 150,651 | 68,335 | 104,393 | 370,347 | 474,740 |
| Total | 946,856 | 429,491 | 1,189,804 | 1,648,458 | 2,838,262 |
| Oceania: | | | | | |
| Australia | 55,620 | 25,229 | 28,954 | 146,420 | 175,374 |
| New Zealand | 1,850 | 839 | 2,517 | 24,552 | 27,069 |
| French Polynesia | 1,038 | 471 | 1,208 | 1,834 | 3,042 |
| New Caledonia | 209 | 95 | 204 | 910 | 1,114 |
| Fiji | 897 | 407 | 695 | 292 | 987 |
| Other | 955 | 433 | 630 | 1,349 | 1,979 |
| Total | 60,569 | 27,474 | 34,208 | 175,357 | 209,565 |
| Africa: | | | | | |
| South Africa | 540 | 245 | 956 | 48,827 | 49,783 |
| Egypt | 40 | 18 | 68 | 9,547 | 9,615 |
| Zimbabwe | - | - | - | 9,252 | 9,252 |
| Nigeria | - | - | - | 5,199 | 5,199 |
| Morocco | 20 | 9 | 20 | 1,286 | 1,306 |
| Other | 163 | 74 | 421 | 7,216 | 7,637 |
| Total | 763 | 346 | 1,465 | 81,327 | 82,792 |
| Grand total | 1,688,979 | 766,116 | 2,268,020 | 6,437,385 | 8,705,405 |

(1) Figures reflect both domestic and foreign (re-exports).

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

FOREIGN TRADE

EXPORTS

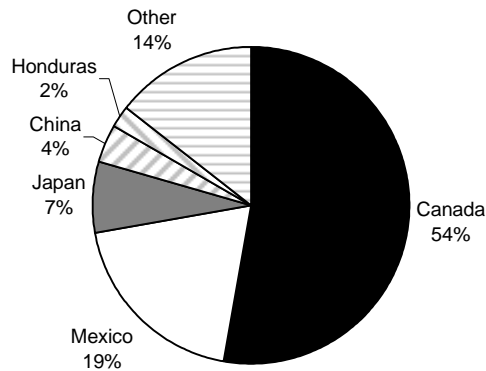
FRESH AND FROZEN SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

| Country | 1997 | | | 1998 | | |
|--------------|-----------------|---------------|------------------|-----------------|---------------|------------------|
| | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds | Metric tons | Thousand dollars |
| Canada | 17,381 | 7,884 | 71,724 | 15,858 | 7,193 | 64,085 |
| Mexico | 8,023 | 3,639 | 24,772 | 8,131 | 3,688 | 23,481 |
| Japan | 1,620 | 735 | 9,366 | 1,711 | 776 | 8,813 |
| China | 1,495 | 678 | 4,119 | 1,724 | 782 | 4,697 |
| Honduras | 935 | 424 | 3,558 | 791 | 359 | 2,906 |
| Thailand | 809 | 367 | 2,958 | 631 | 286 | 2,729 |
| Brazil | 988 | 448 | 3,261 | 487 | 221 | 1,712 |
| Singapore | 46 | 21 | 186 | 280 | 127 | 1,709 |
| Bermuda | 159 | 72 | 1,012 | 163 | 74 | 1,063 |
| Other | 3,358 | 1,523 | 12,486 | 2,657 | 1,205 | 10,202 |
| Total | 34,813 | 15,791 | 133,442 | 32,432 | 14,711 | 121,397 |

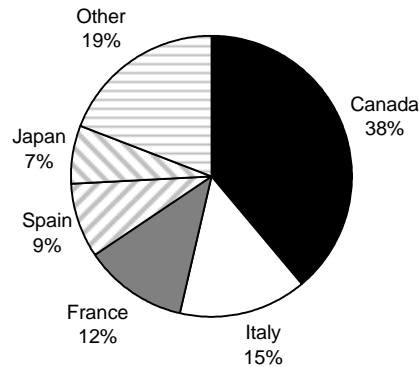
(1) Figures reflect both domestic and foreign (re-export).

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

U.S. Exports of Shrimp, 1998



U.S. Exports of Lobster, 1998



FRESH AND FROZEN LOBSTER EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

| Country | 1997 | | | 1998 | | |
|----------------|-----------------|---------------|------------------|-----------------|---------------|------------------|
| | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds | Metric tons | Thousand dollars |
| Canada | 28,151 | 12,769 | 93,850 | 21,799 | 9,888 | 72,816 |
| Italy | 3,761 | 1,706 | 19,617 | 5,337 | 2,421 | 28,019 |
| France | 3,131 | 1,420 | 16,971 | 4,160 | 1,887 | 22,085 |
| Spain | 1,916 | 869 | 9,372 | 3,399 | 1,542 | 16,084 |
| Japan | 2,246 | 1,019 | 15,821 | 1,978 | 897 | 12,610 |
| Taiwan | 2,884 | 1,308 | 23,229 | 1,367 | 620 | 11,001 |
| Germany | 492 | 223 | 2,839 | 637 | 289 | 3,601 |
| Hong Kong | 1,089 | 494 | 6,270 | 516 | 234 | 3,168 |
| United Kingdom | 518 | 235 | 2,790 | 509 | 231 | 2,478 |
| Other | 3,062 | 1,389 | 17,887 | 3,269 | 1,483 | 15,900 |
| Total | 47,249 | 21,432 | 208,646 | 42,972 | 19,492 | 187,762 |

(1) Figures reflect both domestic and foreign (re-export).

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

FOREIGN TRADE

EXPORTS

FRESH AND FROZEN SALMON EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

| Country | 1997 | | | 1998 | | |
|----------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| Japan | 113,477 | 51,473 | 208,038 | 66,918 | 30,354 | 148,041 |
| Canada | 35,289 | 16,007 | 52,136 | 43,550 | 19,754 | 56,196 |
| France | 11,058 | 5,016 | 12,750 | 9,303 | 4,220 | 10,171 |
| China | 2,533 | 1,149 | 2,513 | 5,481 | 2,486 | 9,735 |
| Germany | 2,899 | 1,315 | 2,849 | 10,300 | 4,672 | 9,226 |
| United Kingdom | 2,163 | 981 | 2,210 | 2,244 | 1,018 | 3,083 |
| Denmark | 3,366 | 1,527 | 3,566 | 2,727 | 1,237 | 2,799 |
| Belgium | 3,662 | 1,661 | 4,383 | 1,821 | 826 | 2,318 |
| Netherlands | 957 | 434 | 1,338 | 1,069 | 485 | 1,786 |
| Other | 14,537 | 6,594 | 17,738 | 10,022 | 4,546 | 11,747 |
| Total | 189,942 | 86,157 | 307,521 | 153,436 | 69,598 | 255,102 |

(1) Figures reflect both domestic and foreign (re-exports).

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

CANNED SALMON EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

| Country | 1997 | | | 1998 | | |
|----------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| United Kingdom | 35,075 | 15,910 | 67,228 | 31,804 | 14,426 | 66,885 |
| Canada | 20,763 | 9,418 | 29,277 | 27,401 | 12,429 | 43,001 |
| Australia | 11,565 | 5,246 | 18,415 | 7,917 | 3,591 | 15,380 |
| Netherlands | 6,479 | 2,939 | 10,192 | 5,236 | 2,375 | 8,689 |
| France | 831 | 377 | 1,139 | 1,691 | 767 | 2,899 |
| New Zealand | 1,664 | 755 | 2,140 | 871 | 395 | 1,997 |
| Belgium | 1,612 | 731 | 2,108 | 677 | 307 | 1,043 |
| Japan | 589 | 267 | 910 | 276 | 125 | 533 |
| Ireland | 388 | 176 | 668 | 337 | 153 | 518 |
| Other | 2,654 | 1,204 | 3,360 | 1,241 | 563 | 2,343 |
| Total | 81,621 | 37,023 | 135,437 | 77,450 | 35,131 | 143,288 |

(1) Figures reflect both domestic and foreign (re-exports).

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

FROZEN SURIMI EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

| Country | 1997 | | | 1998 | | |
|--------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| Japan | 242,012 | 109,776 | 261,683 | 188,379 | 85,448 | 176,879 |
| South Korea | 37,364 | 16,948 | 41,335 | 42,236 | 19,158 | 48,470 |
| Taiwan | 5,095 | 2,311 | 4,032 | 6,177 | 2,802 | 5,141 |
| France | 6,874 | 3,118 | 4,970 | 5,234 | 2,374 | 4,644 |
| China | 8,510 | 3,860 | 7,165 | 2,926 | 1,327 | 2,738 |
| Norway | 86 | 39 | 86 | 1,396 | 633 | 2,315 |
| Canada | 1,559 | 707 | 1,652 | 1,440 | 653 | 1,296 |
| Netherlands | 97 | 44 | 165 | 1,124 | 510 | 1,224 |
| Malaysia | 1,193 | 541 | 1,454 | 915 | 415 | 849 |
| Other | 7,454 | 3,381 | 8,434 | 5,492 | 2,491 | 4,859 |
| Total | 310,242 | 140,725 | 330,976 | 255,317 | 115,811 | 248,415 |

(1) Figures reflect both domestic and foreign (re-exports).

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

FOREIGN TRADE

EXPORTS

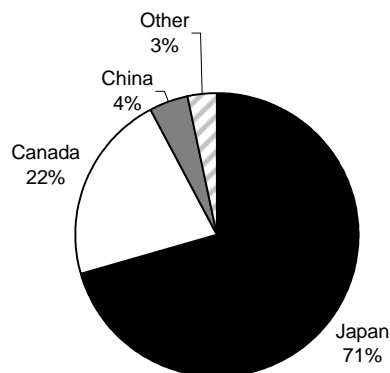
FRESH AND FROZEN CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

| Country | 1997 | | | 1998 | | |
|----------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| Japan | 28,955 | 13,134 | 82,230 | 33,552 | 15,219 | 76,928 |
| Canada | 10,571 | 4,795 | 17,712 | 12,681 | 5,752 | 23,522 |
| China | 1,349 | 612 | 2,228 | 2,557 | 1,160 | 4,812 |
| Hong Kong | 163 | 74 | 418 | 441 | 200 | 551 |
| United Kingdom | 55 | 25 | 332 | 121 | 55 | 459 |
| Thailand | 897 | 407 | 2,658 | 461 | 209 | 377 |
| South Korea | 75 | 34 | 301 | 55 | 25 | 357 |
| France | 9 | 4 | 50 | 82 | 37 | 344 |
| Belgium | 49 | 22 | 313 | 130 | 59 | 201 |
| Other | 1,010 | 458 | 2,419 | 659 | 299 | 1,443 |
| Total | 43,133 | 19,565 | 108,661 | 50,739 | 23,015 | 108,994 |

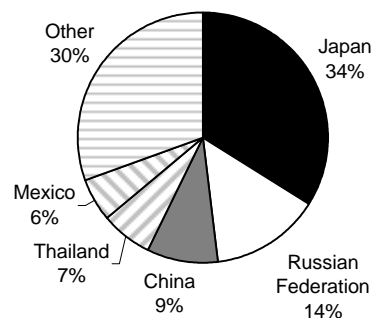
(1) Figures reflect both domestic and foreign (re-exports).

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

U.S. Exports of Crab, 1998



U.S. Exports of Crabmeat, 1998



FRESH AND FROZEN CRABMEAT EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

| Country | 1997 | | | 1998 | | |
|--------------------|----------------------------|------------------------|-----------------------------|----------------------------|------------------------|-----------------------------|
| | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> | <u>Thousand pounds</u> | <u>Metric tons</u> | <u>Thousand dollars</u> |
| Japan | 1,497 | 679 | 3,813 | 882 | 400 | 1,884 |
| Russian Federation | 875 | 397 | 1,206 | 699 | 317 | 793 |
| China | 183 | 83 | 598 | 370 | 168 | 515 |
| Thailand | - | - | - | 399 | 181 | 371 |
| Mexico | 86 | 39 | 149 | 112 | 51 | 307 |
| Canada | 150 | 68 | 443 | 73 | 33 | 257 |
| Hong Kong | 159 | 72 | 459 | 42 | 19 | 209 |
| Portugal | - | - | - | 93 | 42 | 130 |
| Germany | 2 | 1 | 9 | 128 | 58 | 124 |
| Other | 448 | 203 | 1,141 | 481 | 218 | 978 |
| Total | 3,399 | 1,542 | 7,818 | 3,278 | 1,487 | 5,568 |

(1) Figures reflect both domestic and foreign (re-exports).

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

FOREIGN TRADE

EXPORTS

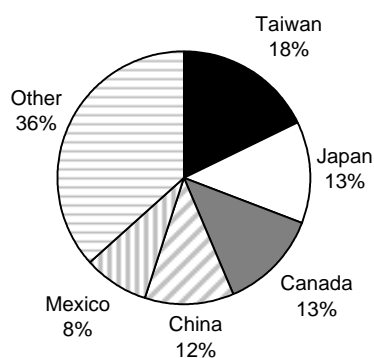
FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

| Country | 1997 | | | 1998 | | |
|--------------|--------------------|----------------|---------------------|--------------------|----------------|---------------------|
| | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds | Metric tons | Thousand dollars |
| Taiwan | 43,651 | 19,800 | 10,897 | 42,355 | 19,212 | 12,234 |
| Japan | 22,123 | 10,035 | 6,108 | 27,793 | 12,607 | 8,851 |
| Canada | 39,169 | 17,767 | 10,463 | 35,280 | 16,003 | 8,678 |
| China | 73,318 | 33,257 | 13,995 | 29,156 | 13,225 | 7,968 |
| Mexico | 1,887 | 856 | 2,093 | 7,690 | 3,488 | 5,632 |
| Philippines | 7,474 | 3,390 | 2,386 | 5,871 | 2,663 | 5,132 |
| Germany | 15 | 7 | 30 | 12,542 | 5,689 | 3,154 |
| Italy | 62 | 28 | 289 | 8,532 | 3,870 | 2,688 |
| Israel | 37 | 17 | 5 | 4,841 | 2,196 | 1,532 |
| Other | 28,552 | 12,951 | 10,931 | 36,599 | 16,601 | 12,578 |
| Total | 216,289 | 98,108 | 57,197 | 210,658 | 95,554 | 68,447 |

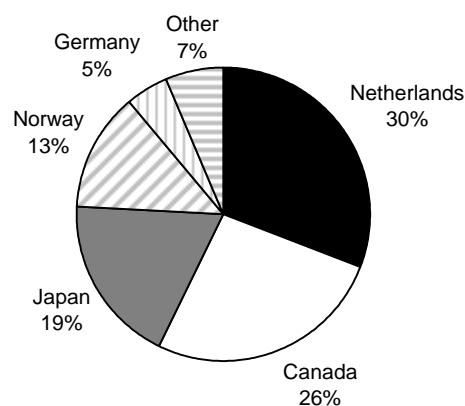
(1) Figures reflect both domestic and foreign (re-exports).

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

U.S. Exports of Fish Meal, 1998



U.S. Exports of Fish Oil, 1998



FISH AND MARINE ANIMAL OIL EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

| Country | 1997 | | | 1998 | | |
|----------------|--------------------|----------------|---------------------|--------------------|----------------|---------------------|
| | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds | Metric tons | Thousand dollars |
| Netherlands | 116,249 | 52,730 | 26,420 | 63,819 | 28,948 | 18,463 |
| Canada | 46,806 | 21,231 | 13,244 | 49,720 | 22,553 | 15,867 |
| Japan | 6,762 | 3,067 | 1,251 | 35,950 | 16,307 | 11,104 |
| Norway | 121 | 55 | 59 | 28,774 | 13,052 | 7,809 |
| Germany | - | - | - | 11,025 | 5,001 | 2,750 |
| China | 5,099 | 2,313 | 2,068 | 2,707 | 1,228 | 1,743 |
| United Kingdom | 185 | 84 | 108 | 639 | 290 | 583 |
| Mexico | 22,716 | 10,304 | 5,131 | 1,858 | 843 | 478 |
| Hong Kong | 3,018 | 1,369 | 1,619 | 604 | 274 | 367 |
| Other | 14,299 | 6,486 | 3,816 | 1,565 | 710 | 726 |
| Total | 215,255 | 97,639 | 53,716 | 196,664 | 89,206 | 59,890 |

(1) Figures reflect both domestic and foreign (re-exports).

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

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF EDIBLE AND INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1989-98 (Round weight)

| Year | Domestic commercial landings (1) | Imports | Exports | Total |
|---------------------------|--|---------|---------|--------|
| ----- Million pounds----- | | | | |
| 1989 | 8,463 | 7,022 | 2,690 | 12,795 |
| 1990 | 9,404 | 6,945 | 4,191 | 12,158 |
| 1991 | 9,484 | 6,879 | 4,719 | 11,644 |
| 1992 | 9,637 | 6,469 | 5,278 | 10,828 |
| 1993 | 10,467 | 9,867 | 5,578 | 14,756 |
| 1994 | 10,461 | 8,848 | 5,202 | 14,107 |
| 1995 | 9,788 | 6,696 | 5,252 | 11,232 |
| 1996 | 9,565 | 6,909 | 5,418 | 11,056 |
| 1997 | 9,842 | 7,290 | 5,537 | 11,595 |
| 1998 | 9,194 | 7,703 | 4,889 | 12,008 |

(1) Preliminary.

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, 1989-98 (Round weight)

| Year | Domestic commercial landings (1) | Imports | Exports | Total |
|---------------------------|--|---------|---------|--------|
| ----- Million pounds----- | | | | |
| 1989 | 6,204 | 6,064 | 2,089 | 10,179 |
| 1990 | 7,041 | 5,621 | 3,396 | 9,266 |
| 1991 | 7,031 | 5,989 | 3,564 | 9,456 |
| 1992 | 7,618 | 5,624 | 4,123 | 9,119 |
| 1993 | 8,214 | 5,607 | 4,386 | 9,435 |
| 1994 | 7,936 | 5,778 | 4,306 | 9,408 |
| 1995 | 7,667 | 5,917 | 4,261 | 9,323 |
| 1996 | 7,474 | 6,150 | 4,374 | 9,250 |
| 1997 | 7,244 | 6,495 | 4,326 | 9,413 |
| 1998 | 7,173 | 7,001 | 3,709 | 10,465 |

(1) Preliminary.

U.S. SUPPLY OF INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1989-98 (Round weight)

| Year | Domestic commercial landings (1) | Imports | Exports | Total |
|---------------------------|--|---------|---------|-------|
| ----- Million pounds----- | | | | |
| 1989 | 2,259 | 958 | 601 | 2,616 |
| 1990 | 2,363 | 1,324 | 795 | 2,892 |
| 1991 | 2,453 | 890 | 1,155 | 2,188 |
| 1992 | 2,019 | 845 | 1,448 | 1,416 |
| 1993 | 2,253 | 4,260 | 1,192 | 5,321 |
| 1994 | 2,525 | 3,070 | 896 | 4,699 |
| 1995 | 2,121 | 779 | 991 | 1,909 |
| 1996 | 2,091 | 759 | 1,044 | 1,806 |
| 1997 | 2,598 | 795 | 1,211 | 2,182 |
| 1998 | 2,021 | 702 | 1,180 | 1,543 |

(1) Preliminary.

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1997 AND 1998

| Item | Domestic commercial landings | | Imports | | Exports | | Total | |
|---|------------------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| | 1997 | 1998 | 1997 | 1998 | 1997 | 1998 | 1997 | 1998 |
| -----Thousand pounds--round weight----- | | | | | | | | |
| Edible products: | | | | | | | | |
| Finfish | 5,968,912 | 5,935,025 | 4,611,551 | 4,901,349 | 3,828,613 | 3,374,636 | 6,751,850 | 7,461,738 |
| Shellfish, et al | 1,276,575 | 1,238,478 | 1,883,149 | 2,099,667 | 497,102 | 334,322 | 2,662,622 | 3,003,823 |
| Total, edible | 7,245,487 | 7,173,503 | 6,494,700 | 7,001,016 | 4,325,715 | 3,708,958 | 9,414,472 | 10,465,561 |
| Industrial products: (1) | | | | | | | | |
| Finfish | 2,428,374 | 1,952,995 | 795,474 | 702,264 | 1,211,218 | 1,179,687 | 2,012,630 | 1,475,572 |
| Shellfish, et al | 169,386 | 67,472 | (2) | (2) | (2) | (2) | 169,386 | 67,472 |
| Total, industrial | 2,597,760 | 2,020,467 | 795,474 | 702,264 | 1,211,218 | 1,179,687 | 2,182,016 | 1,543,044 |
| Total: | | | | | | | | |
| Finfish | 8,397,286 | 7,888,020 | 5,407,025 | 5,603,613 | 5,039,831 | 4,554,323 | 8,764,480 | 8,937,310 |
| Shellfish, et al | 1,445,961 | 1,305,950 | 1,883,149 | 2,099,667 | 497,102 | 334,322 | 2,832,008 | 3,071,295 |
| Grand total | 9,843,247 | 9,193,970 | 7,290,174 | 7,703,280 | 5,536,933 | 4,888,645 | 11,596,488 | 12,008,605 |

(1) Includes only quantity harvested for fish meal.

(2) Not available.

NOTE:--Total landings shown in this table may not agree with landings reported in other tables due to rounding.

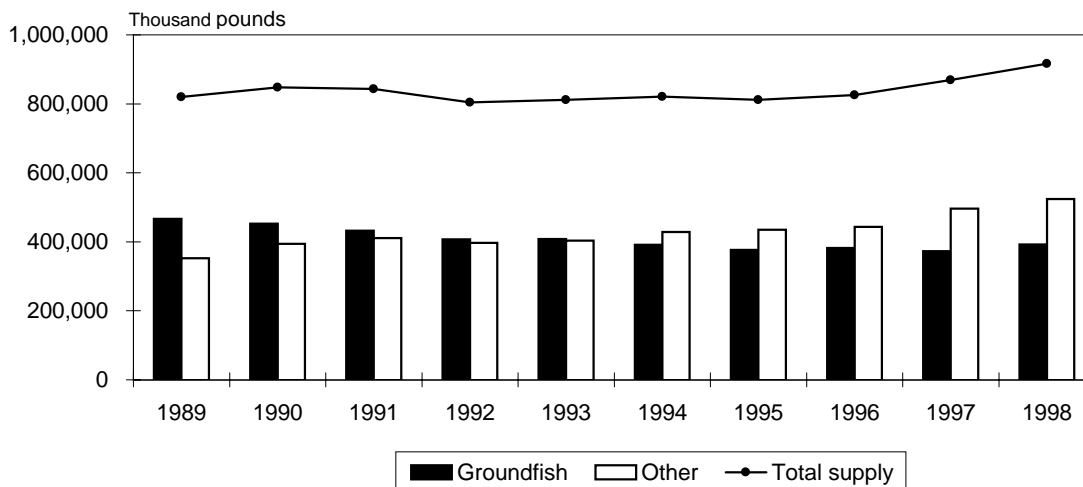
SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1989-98 (Edible weight)

| Year | U.S. production (1) | Imports | Total | Exports | Total supply |
|-----------------------------|---------------------|---------|-----------|---------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 371,082 | 517,620 | 888,702 | 68,931 | 819,771 |
| 1990 | 440,692 | 458,413 | 899,105 | 51,599 | 847,506 |
| 1991 | 472,668 | 440,018 | 912,686 | 69,086 | 843,600 |
| 1992 | 448,664 | 408,059 | 856,723 | 52,247 | 804,476 |
| 1993 | 420,169 | 440,354 | 860,523 | 48,847 | 811,676 |
| 1994 | 425,022 | 439,059 | 864,081 | 43,252 | 820,829 |
| 1995 | 385,293 | 477,483 | 862,776 | 50,785 | 811,991 |
| 1996 | 423,309 | 476,469 | 899,778 | 74,368 | 825,410 |
| 1997 | 409,652 | 514,805 | 924,457 | 55,014 | 869,443 |
| 1998 | 438,744 | 578,561 | 1,017,305 | 101,016 | 916,289 |

(1) Includes fillets used to produce blocks.

U.S. Supply of Fillets and Steaks



U.S. SUPPLY OF GROUND FISH FILLETS AND STEAKS, 1989-98 (Edible weight)

| Year | U.S. production (1) | Imports | Total | Exports (2) | Total supply |
|-----------------------------|---------------------|---------|---------|-------------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 211,498 | 265,001 | 476,499 | 9,652 | 466,847 |
| 1990 | 258,809 | 200,980 | 459,789 | 6,944 | 452,845 |
| 1991 | 264,323 | 202,409 | 466,732 | 34,442 | 432,290 |
| 1992 | 252,358 | 172,755 | 425,113 | 17,507 | 407,606 |
| 1993 | 233,755 | 186,516 | 420,271 | 12,242 | 408,029 |
| 1994 | 220,357 | 189,097 | 409,454 | 17,639 | 391,815 |
| 1995 | 216,699 | 184,845 | 401,544 | 24,606 | 376,938 |
| 1996 | 245,406 | 178,209 | 423,615 | 41,691 | 381,924 |
| 1997 | 220,403 | 176,125 | 396,528 | 23,367 | 373,161 |
| 1998 | 269,004 | 186,937 | 455,941 | 63,481 | 392,460 |

(1) Includes fillets used to produce blocks. Species include: cod, cusk, haddock, hake, pollock, and ocean perch.

(2) Species include: cod 1989-98; pollock 1991-98.

SUPPLY OF FISHERY PRODUCTS

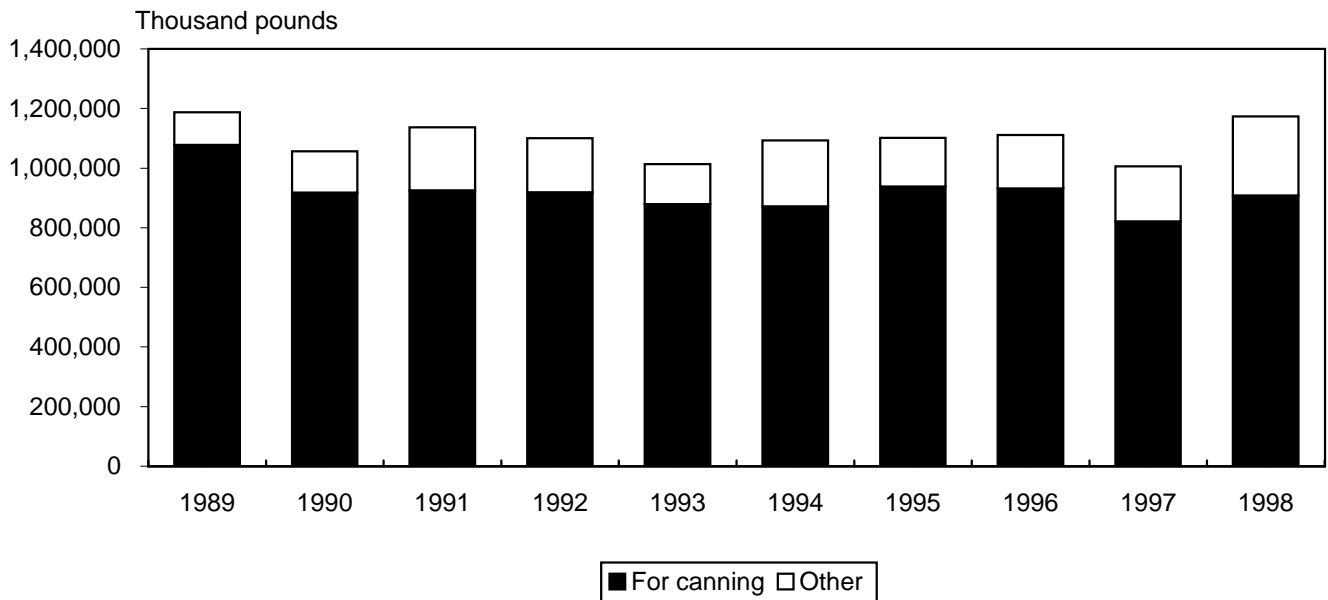
U.S. SUPPLY OF FRESH AND FROZEN TUNA, 1989-98 (Round weight)

| Year | U.S. commercial landings (1) | | | Imports (2) | | | Exports total | Total supply |
|-----------------------------|------------------------------|---------|---------|-------------|---------|---------|---------------|--------------|
| | For canning | Other | Total | For canning | Other | Total | | |
| ----- Thousand pounds ----- | | | | | | | | |
| 1989 | 452,278 | 87,823 | 540,101 | 625,738 | 38,564 | 664,302 | 17,478 | 1,186,925 |
| 1990 | 391,954 | 119,955 | 511,909 | 526,496 | 37,826 | 564,322 | 19,773 | 1,056,458 |
| 1991 | 346,322 | 178,025 | 524,347 | 579,556 | 50,290 | 629,846 | 17,714 | 1,136,479 |
| 1992 | 435,924 | 137,933 | 573,857 | 482,677 | 63,524 | 546,201 | 20,011 | 1,100,047 |
| 1993 | 426,036 | 62,933 | 488,969 | 453,046 | 92,965 | 546,011 | 21,660 | 1,013,320 |
| 1994 | 401,732 | 157,695 | 559,427 | 469,514 | 92,352 | 561,866 | 28,512 | 1,092,781 |
| 1995 | 407,036 | 86,956 | 493,992 | 531,266 | 105,304 | 636,570 | 28,869 | 1,101,693 |
| 1996 | 364,652 | 91,612 | 456,264 | 567,266 | 119,247 | 686,513 | 31,382 | 1,111,395 |
| 1997 | 354,074 | 102,567 | 456,641 | 467,526 | 105,806 | 573,332 | 24,092 | 1,005,881 |
| 1998 | 318,144 | 161,305 | 479,449 | 590,568 | 137,852 | 728,420 | 34,026 | 1,173,843 |

(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.

U.S. SUPPLY OF FRESH AND FROZEN TUNA



SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF CANNED SARDINES, 1989-98 (Canned weight)

| Year | U.S. pack | Imports | Total | Exports | Total supply |
|-----------------------------|-----------|---------|--------|---------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 13,221 | 56,379 | 69,600 | 9,070 | 60,530 |
| 1990 | 13,240 | 56,963 | 70,203 | 9,048 | 61,155 |
| 1991 | 13,986 | 48,515 | 62,501 | 10,668 | 51,833 |
| 1992 | 17,437 | 36,511 | 53,948 | 12,690 | 41,258 |
| 1993 | 14,354 | 39,111 | 53,465 | 12,275 | 41,190 |
| 1994 | 15,560 | 43,942 | 59,502 | 11,010 | 48,492 |
| 1995 | 13,567 | 42,280 | 55,847 | 11,773 | 44,074 |
| 1996 | 17,672 | 40,926 | 58,598 | 12,207 | 46,391 |
| 1997 | 15,976 | 42,771 | 58,747 | 9,321 | 49,426 |
| 1998 | 11,842 | 44,328 | 56,170 | 6,314 | 49,856 |

U.S. SUPPLY OF CANNED SALMON, 1989-98 (Canned weight)

| Year | U.S. pack | Imports | Total | Exports | Total supply |
|-----------------------------|-----------|---------|---------|---------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 197,044 | 2,943 | 199,987 | 40,497 | 159,490 |
| 1990 | 196,383 | 1,378 | 197,761 | 49,546 | 148,215 |
| 1991 | 195,744 | 983 | 196,727 | 66,134 | 130,593 |
| 1992 | 149,453 | 974 | 150,427 | 77,895 | 72,532 |
| 1993 | 198,344 | 428 | 198,772 | 84,610 | 114,162 |
| 1994 | 206,841 | 1,093 | 207,934 | 90,915 | 117,019 |
| 1995 | 243,568 | 1,202 | 244,770 | 98,197 | 146,573 |
| 1996 | 197,163 | 2,266 | 199,429 | 95,530 | 103,899 |
| 1997 | 162,106 | 1,228 | 163,334 | 81,621 | 81,713 |
| 1998 | 162,502 | 1,323 | 163,825 | 77,450 | 86,375 |

U.S. SUPPLY OF CANNED TUNA, 1989-98 (Canned weight)

| Year | U.S. pack | Imports | Total | Exports | Total supply |
|-----------------------------|-----------|---------|-----------|---------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 686,267 | 348,212 | 1,034,479 | 6,495 | 1,027,984 |
| 1990 | 580,601 | 284,593 | 865,194 | 9,039 | 856,155 |
| 1991 | 592,786 | 351,744 | 944,530 | 11,310 | 933,220 |
| 1992 | 608,981 | 323,413 | 932,394 | 10,141 | 922,253 |
| 1993 | 618,743 | 224,419 | 843,162 | 8,534 | 834,628 |
| 1994 | 609,514 | 249,043 | 858,557 | 8,391 | 850,166 |
| 1995 | 666,581 | 215,365 | 881,946 | 7,385 | 874,561 |
| 1996 | 675,816 | 193,037 | 868,853 | 9,866 | 858,987 |
| 1997 | 627,032 | 212,171 | 839,203 | 9,967 | 829,236 |
| 1998 | 680,853 | 240,409 | 921,262 | 9,319 | 911,943 |

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF KING CRAB, 1989-98 (Round weight)

| Year | U.S. commercial landings | Imports (1) | Total | Exports (1) | Total supply |
|-----------------------------|--------------------------|-------------|--------|-------------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 26,391 | 5,150 | 31,541 | (2) 13,196 | 18,345 |
| 1990 | 33,917 | 4,925 | 38,842 | (2) 19,486 | 19,356 |
| 1991 | 28,140 | 7,087 | 35,227 | 15,320 | 19,907 |
| 1992 | 19,056 | 11,958 | 31,014 | 16,241 | 14,773 |
| 1993 | 24,732 | 7,395 | 32,127 | 24,372 | 7,755 |
| 1994 | 11,960 | 15,035 | 26,995 | 15,013 | 11,982 |
| 1995 | 14,673 | 18,360 | 33,033 | 11,847 | 21,186 |
| 1996 | 21,000 | 26,533 | 47,533 | 17,650 | 29,883 |
| 1997 | 18,027 | 39,666 | 57,693 | 12,516 | 45,177 |
| 1998 | 24,122 | 51,655 | 75,777 | 13,575 | 62,202 |

(1) Imports, exports, foreign exports converted to round (live) weight by using these conversion factors: frozen, 1.75; meat, 4.50; and canned, 5.33. (2) Estimated, based on available foreign import data.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1989-98 (Round weight)

| Year | U.S. commercial landings | Imports (1) | Total | Exports (2) | Total supply |
|-----------------------------|--------------------------|-------------|---------|-------------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 164,643 | 3,927 | 168,570 | (3) 111,028 | 57,542 |
| 1990 | 213,395 | 10,772 | 224,167 | (3) 187,069 | 37,098 |
| 1991 | 357,122 | 19,091 | 376,213 | (3) 316,162 | 60,051 |
| 1992 | 350,039 | 18,882 | 368,921 | 281,214 | 87,707 |
| 1993 | 255,733 | 31,224 | 286,957 | 220,618 | 66,339 |
| 1994 | 159,574 | 27,446 | 187,020 | 147,006 | 40,014 |
| 1995 | 80,817 | 20,969 | 101,786 | 59,805 | 41,981 |
| 1996 | 67,867 | 28,336 | 96,203 | 50,509 | 45,694 |
| 1997 | 118,898 | 41,959 | 160,857 | 50,604 | 110,253 |
| 1998 | 251,831 | 60,166 | 311,997 | 58,366 | 253,631 |

(1) Converted to round (live) weight by multiplying fresh and frozen by 1.50; meat, 4.50; and canned, 5.00. (2) Domestic merchandise converted to round (live) weight by multiplying frozen weight by 2.13 (believed to be mostly sections); meat, 4.50; and canned, 5.33. Foreign exports converted using the same factors as imports. (3) Estimated, based on available foreign import data.

U.S. SUPPLY OF CANNED CRABMEAT, 1989-98 (Canned weight)

| Year | U.S. pack | Imports | Total | Exports | Total supply |
|-----------------------------|-----------|---------|--------|---------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 504 | 8,280 | 8,784 | 930 | 7,854 |
| 1990 | 695 | 8,563 | 9,258 | 434 | 8,824 |
| 1991 | 77 | 11,385 | 11,462 | 525 | 10,937 |
| 1992 | 99 | 9,577 | 9,676 | 789 | 8,887 |
| 1993 | 70 | 9,817 | 9,887 | 668 | 9,219 |
| 1994 | 17 | 9,852 | 9,869 | 511 | 9,358 |
| 1995 | 65 | 12,441 | 12,506 | 276 | 12,230 |
| 1996 | 93 | 12,773 | 12,866 | 337 | 12,529 |
| 1997 | 83 | 15,871 | 15,954 | 608 | 15,346 |
| 1998 | 78 | 22,020 | 22,098 | 558 | 21,540 |

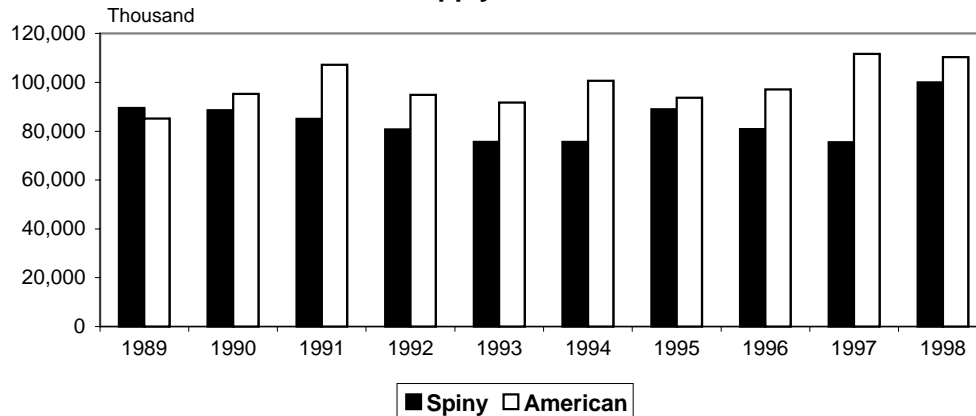
SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF AMERICAN LOBSTERS, 1989-98 (Round weight)

| Year | U.S. commercial landings | Imports (1) | Total | Exports (2) | Total supply |
|-----------------------------|--------------------------|-------------|---------|-------------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 52,926 | 42,530 | 95,456 | 10,310 | 85,146 |
| 1990 | 61,017 | 49,592 | 110,609 | 15,274 | 95,335 |
| 1991 | 63,337 | 65,381 | 128,718 | 21,485 | 107,233 |
| 1992 | 55,841 | 59,335 | 115,176 | 20,332 | 94,844 |
| 1993 | 56,513 | 55,570 | 112,083 | 20,354 | 91,729 |
| 1994 | 66,416 | 65,949 | 132,365 | 31,646 | 100,719 |
| 1995 | 66,406 | 62,923 | 129,329 | 35,587 | 93,742 |
| 1996 | 71,641 | 65,379 | 137,020 | 39,919 | 97,101 |
| 1997 | 83,921 | 73,033 | 156,954 | 45,262 | 111,692 |
| 1998 | 79,642 | 73,601 | 153,243 | 42,874 | 110,369 |

(1) Only imports from Canada and St. Pierre and Miquelon are considered American lobster and were converted to round (live) by using these conversion factors: 1.00, Whole; 4.50, meat; and 4.64, canned. (2) Domestic exports converted to live weight by 1.00, whole; 4.00, meat; and 4.50, canned. Foreign exports converted using import factors.

U.S. Supply of Lobsters



U.S. SUPPLY OF SPINY LOBSTERS, 1989-98 (Round weight)

| Year | U.S. commercial landings | Imports (1) | Total | Exports (2) | Total supply |
|-----------------------------|--------------------------|-------------|---------|-------------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 8,125 | 87,793 | 95,918 | 6,373 | 89,545 |
| 1990 | 7,120 | 88,426 | 95,546 | 6,948 | 88,598 |
| 1991 | 7,096 | 81,332 | 88,428 | 3,388 | 85,040 |
| 1992 | 4,872 | 77,848 | 82,720 | 2,001 | 80,719 |
| 1993 | 6,076 | 70,884 | 76,960 | 1,306 | 75,654 |
| 1994 | 8,104 | 68,787 | 76,891 | 1,304 | 75,587 |
| 1995 | 7,123 | 86,900 | 94,023 | 5,035 | 88,988 |
| 1996 | 8,308 | 75,595 | 83,903 | 3,033 | 80,870 |
| 1997 | 7,240 | 74,120 | 81,360 | 5,842 | 75,518 |
| 1998 | 5,935 | 95,801 | 101,736 | 1,802 | 99,934 |

(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) Domestic exports converted to round weight by using: 1.00, whole; 3.00, tails; 4.00, other, 4.50 canned. Foreign exports converted using import factors.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF CLAMS, 1989-98 (Meat weight)

| Year | U.S. commercial landings (1) | Imports (2) | Total | Exports | Total supply |
|-----------------------------|------------------------------|-------------|---------|---------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 138,166 | 13,254 | 151,420 | 1,863 | 149,557 |
| 1990 | 139,198 | 15,830 | 155,028 | 2,961 | 152,067 |
| 1991 | 134,243 | 12,291 | 146,534 | 2,948 | 143,586 |
| 1992 | 142,449 | 14,262 | 156,711 | 1,662 | 155,049 |
| 1993 | 147,752 | 9,579 | 157,331 | 1,809 | 155,522 |
| 1994 | 131,427 | 15,507 | 146,934 | 2,617 | 144,317 |
| 1995 | 134,224 | 12,645 | 146,869 | 2,853 | 144,016 |
| 1996 | 123,239 | 14,340 | 137,579 | 3,448 | 134,131 |
| 1997 | 114,180 | 13,184 | 127,364 | 3,651 | 123,713 |
| 1998 | 107,959 | 15,666 | 123,625 | 4,318 | 119,307 |

(1) For specific breakout see table on page 1.

(2) 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.

U.S. SUPPLY OF OYSTERS, 1989-98 (Meat weight)

| Year | U.S. commercial landings | Imports (1) | Total | Exports | Total supply |
|-----------------------------|--------------------------|-------------|--------|---------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 29,250 | 37,662 | 66,912 | 1,090 | 65,822 |
| 1990 | 29,193 | 27,546 | 56,739 | 1,004 | 55,735 |
| 1991 | 31,859 | 30,547 | 62,406 | 739 | 61,667 |
| 1992 | 36,156 | 26,529 | 62,685 | 797 | 61,888 |
| 1993 | 33,575 | 28,244 | 61,819 | 1,131 | 60,688 |
| 1994 | 38,086 | 24,694 | 62,780 | 1,988 | 60,792 |
| 1995 | 40,380 | 24,200 | 64,580 | 1,908 | 62,672 |
| 1996 | 38,007 | 21,708 | 59,715 | 1,648 | 58,067 |
| 1997 | 39,652 | 20,533 | 60,185 | 2,191 | 57,994 |
| 1998 | 33,538 | 29,575 | 63,113 | 1,877 | 61,236 |

(1) Imports and exports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75, other. (2) Not reported.

U.S. SUPPLY OF SCALLOPS, 1989-98 (Meat weight)

| Year | U.S. commercial landings (1) | Imports | Total | Exports | Total supply |
|-----------------------------|------------------------------|---------|--------|---------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 40,611 | 40,874 | 81,485 | 2,498 | 78,987 |
| 1990 | 41,591 | 39,839 | 81,430 | 7,099 | 74,331 |
| 1991 | 39,740 | 29,528 | 69,268 | 7,083 | 62,185 |
| 1992 | 33,884 | 38,682 | 72,566 | 3,589 | 68,977 |
| 1993 | 18,638 | 51,973 | 70,611 | 4,147 | 66,464 |
| 1994 | 25,469 | 56,676 | 82,145 | 5,990 | 76,155 |
| 1995 | 19,526 | 48,331 | 67,857 | 5,926 | 61,931 |
| 1996 | 18,197 | 58,686 | 76,883 | 6,191 | 70,692 |
| 1997 | 15,474 | 60,146 | 75,620 | 9,861 | 65,759 |
| 1998 | 13,166 | 52,445 | 65,611 | 7,306 | 58,305 |

(1) For specific breakout see table on page 1.

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1989-98 (Heads-off weight)

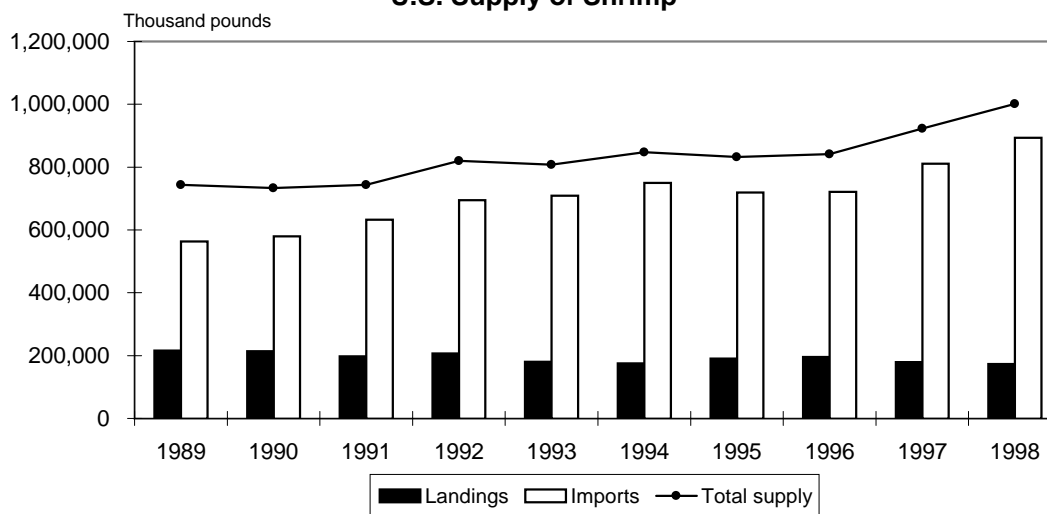
| Year | U.S. commercial landings (1) | Imports (2) | Total | Exports (3) | Total supply |
|-----------------------------|------------------------------|-------------|-----------|-------------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 215,825 | 563,523 | 779,348 | 36,056 | 743,292 |
| 1990 | 213,899 | 579,427 | 793,326 | 59,683 | 733,643 |
| 1991 | 198,115 | 632,775 | 830,890 | 87,186 | 743,704 |
| 1992 | 207,086 | 694,254 | 901,340 | 81,604 | 819,736 |
| 1993 | 180,687 | 708,683 | 889,370 | 81,447 | 807,923 |
| 1994 | 174,969 | 749,993 | 924,962 | 77,755 | 847,207 |
| 1995 | 190,208 | 719,463 | 909,671 | 77,677 | 831,994 |
| 1996 | 195,902 | 720,852 | 916,754 | 75,130 | 841,624 |
| 1997 | 179,084 | 810,696 | 989,780 | 66,674 | 923,106 |
| 1998 | 173,304 | 893,578 | 1,066,882 | 65,302 | 1,001,580 |

(1) Commercial landings were converted to heads-off weight by using these conversion factors: South Atlantic and Gulf, 0.629; and New England, Pacific and other, 0.57.

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

(3) Exports were converted to heads-off weight by using these conversion factors: domestic fresh and frozen, 1.18; canned, 2.02; other, 2.40; foreign--fresh and frozen, 1.00; canned, 2.52; and other, 2.40.

U.S. Supply of Shrimp



U.S. SUPPLY OF CANNED SHRIMP, 1989-98 (Canned weight)

| Year | U.S. pack | Imports | Total | Exports | Total supply |
|-----------------------------|-----------|---------|--------|---------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 2,623 | 11,315 | 13,938 | 2,128 | 11,810 |
| 1990 | 710 | 9,735 | 10,445 | 2,670 | 7,775 |
| 1991 | 632 | 9,361 | 9,993 | 2,352 | 7,641 |
| 1992 | 640 | 9,273 | 9,913 | 1,931 | 7,982 |
| 1993 | 658 | 8,170 | 8,828 | 2,557 | 6,271 |
| 1994 | 463 | 6,314 | 6,777 | 1,841 | 4,936 |
| 1995 | 912 | 6,570 | 7,482 | 3,250 | 4,232 |
| 1996 | 819 | 3,563 | 4,382 | 2,665 | 1,717 |
| 1997 | 1,168 | 3,620 | 4,788 | 1,470 | 3,318 |
| 1998 | 194 | 3,406 | 3,600 | 1,660 | 1,940 |

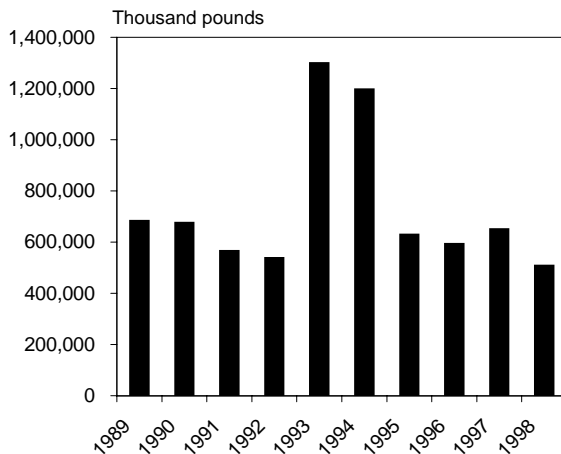
SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF FISH MEAL, 1989-98 (Product weight)

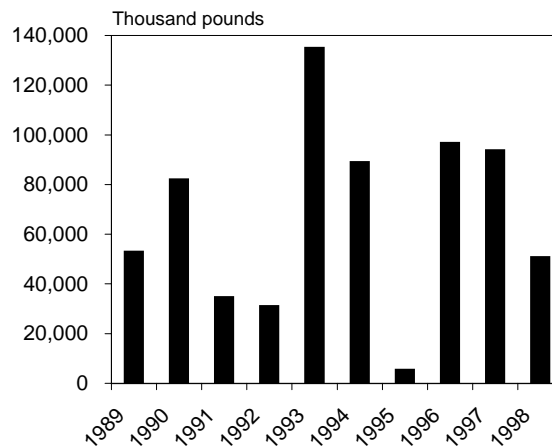
| Year | U.S. production (1) | Imports | Total | Exports | Total supply |
|-----------------------------|---------------------|---------|-----------|---------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 618,382 | 171,112 | 789,494 | 107,350 | 682,144 |
| 1990 | 577,498 | 239,426 | 816,924 | 141,888 | 675,036 |
| 1991 | 612,716 | 158,916 | 771,632 | 206,320 | 565,312 |
| 1992 | 644,512 | 150,911 | 795,423 | 258,511 | 536,912 |
| 1993 | 750,744 | 760,664 | 1,511,408 | 212,859 | 1,298,549 |
| 1994 | 807,833 | 548,288 | 1,356,121 | 159,937 | 1,196,184 |
| 1995 | 667,240 | 139,101 | 806,341 | 176,981 | 629,360 |
| 1996 | 643,124 | 135,561 | 778,685 | 186,412 | 592,273 |
| 1997 | 724,668 | 142,049 | 866,717 | 216,289 | 650,428 |
| 1998 | 592,552 | 125,404 | 717,956 | 210,658 | 507,298 |

(1) Includes shellfish meal.

U.S. Supply of Fish Meal



U.S. Supply of Fish Oils



U.S. SUPPLY OF FISH OILS, 1989-98 (Product weight)

| Year | U.S. production | Imports | Total | Exports | Total supply |
|-----------------------------|-----------------|---------|---------|---------|--------------|
| ----- Thousand pounds ----- | | | | | |
| 1989 | 225,478 | 25,449 | 250,927 | 198,009 | 52,918 |
| 1990 | 281,949 | 36,702 | 318,651 | 236,589 | 82,062 |
| 1991 | 267,345 | 21,828 | 289,173 | 254,525 | 34,648 |
| 1992 | 184,725 | 23,772 | 208,497 | 177,444 | 31,053 |
| 1993 | 293,452 | 26,052 | 319,504 | 184,488 | 135,016 |
| 1994 | 291,189 | 40,642 | 331,831 | 242,788 | 89,043 |
| 1995 | 241,941 | 23,913 | 265,854 | 260,394 | 5,460 |
| 1996 | 248,399 | 35,622 | 284,021 | 187,294 | 96,727 |
| 1997 | 283,379 | 25,622 | 309,001 | 215,255 | 93,746 |
| 1998 | 223,149 | 24,213 | 247,362 | 196,664 | 50,698 |

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 and 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 and are subject to incomplete reporting; changes in source data or invalid model assumptions may each have a significant effect on the resulting calculation.

U.S. per capita consumption of fish and shellfish was 14.9 pounds (edible meat) in 1998. This total was 0.3 pounds more than the 14.6 pounds consumed in 1997. Per capita consumption of fresh and frozen products was 10.2 pounds, 0.3 pound more than 1997.

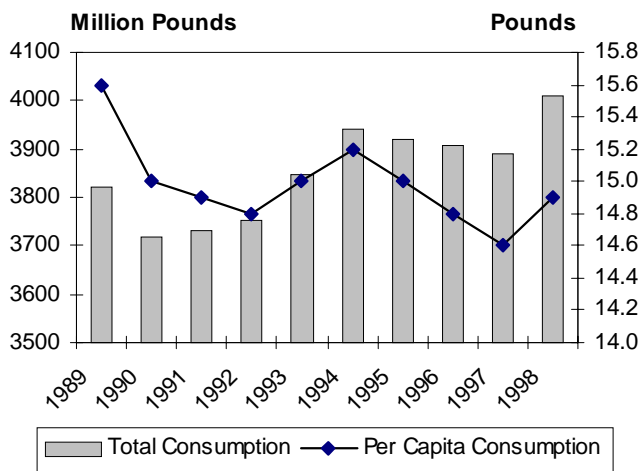
Fresh and frozen finfish accounted for 5.8 pounds while fresh and frozen shellfish consumption was 4.4 pounds per capita. The fresh and frozen finfish includes approximately 1.0 pound of farm raised catfish.

Consumption of canned fishery products was 4.4 pounds per capita in 1998, the same as 1997. Cured fish accounted for 0.3 pound per capita, the same as in previous years. Imports of edible seafood made up 63 percent of the consumption.

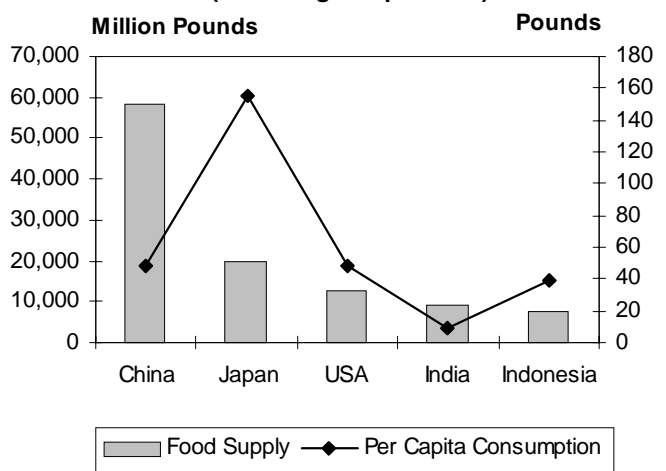
PER CAPITA USE. Per capita use is based on the supply of fishery products, both edible and non-edible (industrial), on a round-weight equivalent basis without considering beginning or ending stocks, defense purchases, or exports. The per capita use of all edible and industrial fishery products in 1998 was 62.5 pounds, down 1.4 pounds compared with 1997.

WORLD CONSUMPTION. The FAO calculation for apparent consumption is based on a disappearance model. The three year average considers, on a round weight equivalent basis, a countries landings, imports, and exports. The 1994-96 data indicates that the United States ranks as the third largest consumer of seafood in the world.

**U.S. Consumption 1989 - 1998
(Edible Meat Weight)**



**Fish and Fishery Products, Apparent
Consumption Average 1994 - 1996
(Live Weight Equivalent)**



PER CAPITA

U.S. CONSUMPTION

Annual per capita consumption of seafood products represents the pounds of edible meat consumed domestically-caught and 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, 1910-98

| Year | Civilian resident population July 1 (1) | Per capita consumption | | | |
|-------------|---|-------------------------------|------------|-----------|-------|
| | | Fresh and frozen (2) | Canned (3) | Cured (4) | Total |
| | <u>Million persons</u> | -----Pounds, edible meat----- | | | |
| 1910 | 92.2 | 4.5 | 2.8 | 3.9 | 11.2 |
| 1920 | 106.5 | 6.3 | 3.2 | 2.3 | 11.8 |
| 1930 | 122.9 | 5.8 | 3.4 | 1.0 | 10.2 |
| 1940 | 132.1 | 5.7 | 4.6 | 0.7 | 11.0 |
| 1950 | 150.8 | 6.3 | 4.9 | 0.6 | 11.8 |
| 1960 | 178.1 | 5.7 | 4.0 | 0.6 | 10.3 |
| 1970 | 201.9 | 6.9 | 4.5 | 0.4 | 11.8 |
| 1980 | 225.6 | 7.9 | 4.3 | 0.3 | 12.5 |
| 1981 | 227.8 | 7.8 | 4.6 | 0.3 | 12.7 |
| 1982 | 230.0 | 7.9 | 4.3 | 0.3 | 12.5 |
| 1983 | 232.1 | 8.4 | 4.7 | 0.3 | 13.4 |
| 1984 | 234.1 | 9.0 | 4.9 | 0.3 | 14.2 |
| 1985 | 236.2 | 9.8 | 5.0 | 0.3 | 15.1 |
| 1986 | 238.4 | 9.8 | 5.4 | 0.3 | 15.5 |
| 1987 | 240.6 | 10.7 | 5.2 | 0.3 | 16.2 |
| 1988 | 242.8 | 10.0 | 4.9 | 0.3 | 15.2 |
| 1989 | 245.1 | 10.2 | 5.1 | 0.3 | 15.6 |
| 1990 | 247.8 | 9.6 | 5.1 | 0.3 | 15.0 |
| 1991 | 250.5 | 9.7 | 4.9 | 0.3 | 14.9 |
| 1992 | 253.5 | 9.9 | 4.6 | 0.3 | 14.8 |
| 1993 | 256.4 | 10.2 | 4.5 | 0.3 | 15.0 |
| 1994 | 259.2 | 10.4 | 4.5 | 0.3 | 15.2 |
| 1995 | 261.4 | 10.0 | 4.7 | 0.3 | 15.0 |
| 1996 | 264.0 | 10.0 | 4.5 | 0.3 | 14.8 |
| 1997 | 266.4 | 9.9 | 4.4 | 0.3 | 14.6 |
| 1998 | 269.1 | 10.2 | 4.4 | 0.3 | 14.9 |

(1) Resident population for 1910 and 1920 and civilian resident population for 1930 to date.

(2) Fresh and frozen fish consumption for 1910 and 1920 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish.

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

(4) Cured fish consumption for 1910 and 1920 is estimated.

*Record years: Fresh and Frozen--10.7 lb, 1987; Canned--5.8, 1936; Cured--4.0, 1909; and Total--16.2 lb, 1987.

**PER CAPITA
U.S. CONSUMPTION**

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1980-98

| Year | Salmon | Sardines | Tuna | Shellfish | Other | Total |
|--------------------|--------|----------|------|-----------|-------|-------|
| ----- Pounds ----- | | | | | | |
| 1980 | 0.5 | 0.3 | 3.0 | 0.4 | 0.1 | 4.3 |
| 1981 | 0.5 | 0.4 | 3.0 | 0.4 | 0.3 | 4.6 |
| 1982 | 0.5 | 0.3 | 2.8 | 0.4 | 0.3 | 4.3 |
| 1983 | 0.5 | 0.2 | 3.2 | 0.4 | 0.4 | 4.7 |
| 1984 | 0.6 | 0.2 | 3.2 | 0.4 | 0.5 | 4.9 |
| 1985 | 0.5 | 0.3 | 3.3 | 0.5 | 0.4 | 5.0 |
| 1986 | 0.5 | 0.3 | 3.6 | 0.5 | 0.5 | 5.4 |
| 1987 | 0.4 | 0.3 | 3.5 | 0.5 | 0.5 | 5.2 |
| 1988 | 0.3 | 0.3 | 3.6 | 0.4 | 0.3 | 4.9 |
| 1989 | 0.3 | 0.3 | 3.9 | 0.4 | 0.2 | 5.1 |
| 1990 | 0.4 | 0.3 | 3.7 | 0.3 | 0.4 | 5.1 |
| 1991 | 0.5 | 0.2 | 3.6 | 0.4 | 0.2 | 4.9 |
| 1992 | 0.5 | 0.2 | 3.5 | 0.3 | 0.1 | 4.6 |
| 1993 | 0.4 | 0.2 | 3.5 | 0.3 | 0.1 | 4.5 |
| 1994 | 0.4 | 0.2 | 3.3 | 0.3 | 0.3 | 4.5 |
| 1995 | 0.5 | 0.2 | 3.4 | 0.3 | 0.3 | 4.7 |
| 1996 | 0.5 | 0.2 | 3.2 | 0.3 | 0.3 | 4.5 |
| 1997 | 0.4 | 0.2 | 3.1 | 0.3 | 0.4 | 4.4 |
| 1998 | 0.3 | 0.2 | 3.4 | 0.3 | 0.2 | 4.4 |

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1980-98

| Year | Fillets and steaks (1) | Sticks and portions | Shrimp all preparation |
|------------------------|------------------------------|---------------------------|------------------------------|
| ----- Pounds (2) ----- | | | |
| 1980 | 2.4 | 2.0 | 1.4 |
| 1981 | 2.4 | 1.8 | 1.5 |
| 1982 | 2.5 | 1.7 | 1.5 |
| 1983 | 2.7 | 1.8 | 1.7 |
| 1984 | 3.0 | 1.8 | 1.9 |
| 1985 | 3.2 | 1.8 | 2.0 |
| 1986 | 3.4 | 1.8 | 2.2 |
| 1987 | * 3.6 | 1.7 | 2.4 |
| 1988 | 3.2 | 1.5 | 2.4 |
| 1989 | 3.1 | 1.5 | 2.3 |
| 1990 | 3.1 | 1.5 | 2.2 |
| 1991 | 3.0 | 1.2 | 2.4 |
| 1992 | 2.9 | 0.9 | 2.5 |
| 1993 | 2.9 | 1.0 | 2.5 |
| 1994 | 3.1 | 0.9 | 2.6 |
| 1995 | 2.9 | 1.2 | 2.5 |
| 1996 | 3.0 | 1.0 | 2.5 |
| 1997 | 3.0 | 1.0 | 2.7 |
| 1998 | 3.2 | 0.9 | * 2.8 |

(1) Data include groundfish and other species. Data do not include blocks, but fillets could be made into blocks from which sticks and portions could be produced.

(2) Product weight of fillets and steaks and sticks and portions, edible (meat) weight of shrimp.

*Record.

PER CAPITA

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1994-96 AVERAGE

| Region and Country | Estimated live weight equivalent | | Region and Country | Estimated live weight equivalent | |
|---------------------|----------------------------------|--------|----------------------------|----------------------------------|-------------|
| | Kilograms | Pounds | | Kilograms | Pounds |
| Far East: | | | Africa - Continued: | | |
| Bangladesh | 9.3 | 20.5 | Ivory Coast | 12.1 | 26.7 |
| Brunei | 28.8 | 63.5 | Kenya | 5.8 | 12.8 |
| Burma | 16.6 | 36.6 | Lesotho | 2.9 | 6.4 |
| Cambodia | 9.2 | 20.3 | Liberia | 4.6 | 10.1 |
| China | 22.0 | 48.5 | Madagascar | 6.3 | 13.9 |
| Hong Kong | 56.8 | 125.2 | Malawi | 5.8 | 12.8 |
| India | 4.4 | 9.7 | Mali | 11.1 | 24.5 |
| Indonesia | 17.6 | 38.8 | Mauritania | 16.1 | 35.5 |
| Japan | 70.7 | 155.9 | Mauritius | 22.5 | 49.6 |
| Laos | 8.9 | 19.6 | Morocco | 7.6 | 16.8 |
| Macao | 38.8 | 85.5 | Mozambique | 1.7 | 3.7 |
| Maldives | 175.5 | 386.9 | Namibia | 11.3 | 24.9 |
| Malaysia | 54.6 | 60.6 | Niger | 0.5 | 1.1 |
| Mongolia | 0.1 | 0.2 | Nigeria | 6.4 | 14.1 |
| Nepal | 1.0 | 2.2 | Reunion | 28.1 | 61.9 |
| North Korea | 19.5 | 43.0 | Rwanda | 0.7 | 1.5 |
| Pakistan | 2.0 | 4.4 | Sao Tome | 24.2 | 53.4 |
| Philippines | 33.0 | 72.8 | Senegal | 30.7 | 67.7 |
| Singapore | 31.2 | 68.8 | Seychelles | 62.8 | 138.4 |
| South Korea | 51.6 | 113.8 | Sierra Leone | 14.5 | 32.0 |
| Sri Lanka | 17.2 | 37.9 | Somalia | 1.5 | 3.3 |
| Taiwan | 35.8 | 78.9 | South Africa | 9.3 | 20.5 |
| Thailand | 31.4 | 69.2 | St. Helena | 74.5 | 164.2 |
| Vietnam | 12.5 | 27.6 | Swaziland | 0.2 | 0.4 |
| | | | Tanzania | 10.6 | 23.4 |
| Africa: | | | Togo | 12.9 | 28.4 |
| Algeria | 4.3 | 9.5 | Tunisia | 9.5 | 20.9 |
| Angola | 7.8 | 17.2 | Uganda | 10.0 | 22.0 |
| Benin | 9.4 | 20.7 | Zambia | 8.6 | 19.0 |
| Botswana | 5.1 | 11.2 | Zimbabwe | 3.5 | 7.7 |
| Burkina | 1.3 | 2.9 | | | |
| Burundi | 3.6 | 7.9 | Oceania: | | |
| Cameroon | 8.7 | 19.2 | Australia | 18.7 | 41.2 |
| Cape Verde | 17.9 | 39.5 | Cook Island | 61.6 | 135.8 |
| Central African Rep | 4.2 | 9.3 | Fiji | 34.9 | 76.9 |
| Chad | 6.0 | 13.2 | French Polynesia | 56.6 | 124.8 |
| Comoros | 23.0 | 50.7 | Kiribati | 74.5 | 164.2 |
| Congo (Brazzaville) | 23.6 | 52.0 | New Caledonia | 20.9 | 46.1 |
| Congo (Kinshasa) | 5.7 | 12.6 | New Zealand | 22.2 | 48.9 |
| Djibouti | 1.6 | 3.5 | Papua New Guinea | 12.7 | 28.0 |
| Equatorial Guinea | 22.6 | 49.8 | Solomon Islands | 39.4 | 86.9 |
| Eritrea | 1.1 | 2.4 | Tonga | 31.8 | 70.1 |
| Ethiopia | 0.1 | 0.2 | Vanuatu | 27.3 | 60.2 |
| Gabon | 43.0 | 94.8 | Western Samoa | 39.5 | 87.1 |
| Gambia | 17.8 | 39.2 | | | |
| Ghana | 18.7 | 41.2 | | | |
| Guinea | 10.0 | 22.0 | | | |
| Guinea-Bissau | 5.1 | 11.2 | | | |
| | | | World | 15.2 | 33.5 |

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

Source:--Food and Agriculture Organization of the United Nations (FAO)

PER CAPITA

U.S. USE

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round weight equivalent basis, without considering the 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, 1960-98 (1)

| Year | Total population including armed forces overseas July 1 | U.S. supply | Per capita utilization | | |
|-------------|--|-----------------------|------------------------|---------|-------|
| | | | Commercial landings | Imports | Total |
| | <u>Million persons</u> | <u>Million pounds</u> | ----- Pounds ----- | | |
| 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 | 230.0 | 11,353 | 26.0 | 23.4 | 49.4 |
| 1982 | 232.2 | 12,011 | 27.4 | 24.3 | 51.7 |
| 1983 | 234.3 | 12,352 | 27.5 | 25.2 | 52.7 |
| 1984 | 236.3 | 12,552 | 27.3 | 25.8 | 53.1 |
| 1985 | 238.5 | 15,150 | 26.2 | 37.3 | 63.5 |
| 1986 | 240.7 | 14,368 | 25.1 | 34.6 | 59.7 |
| 1987 | 242.8 | 15,744 | 28.4 | 36.4 | 64.8 |
| 1988 | 245.0 | 14,628 | 29.3 | 30.4 | 59.7 |
| 1989 | 247.3 | 15,485 | 34.2 | 28.4 | 62.6 |
| 1990 | 249.9 | 16,349 | 37.6 | 27.8 | 65.4 |
| 1991 | 252.7 | 16,363 | 37.5 | 27.3 | 64.8 |
| 1992 | 255.5 | 16,106 | 37.7 | 25.3 | 63.0 |
| 1993 | 258.2 | 20,334 | 40.6 | 38.2 | 78.8 |
| 1994 | 260.7 | 19,309 | 40.1 | 34.0 | 74.1 |
| 1995 | 263.0 | 16,484 | 37.2 | 25.5 | 62.7 |
| 1996 | 265.3 | 16,474 | 36.1 | 26.0 | 62.1 |
| 1997 | 268.2 | 17,132 | 36.7 | 27.2 | 63.9 |
| 1998 | 270.6 | 16,897 | 34.0 | 28.5 | 62.5 |

(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.

SUMMARY OF 1998 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 Thousand Dollars | Mark-up of fishery inputs Percentage of Fishery Inputs | Total mark-up within sector Thousand Dollars | Value added as percent of total mark-up Percentage | Value added within sector Thousand Dollars | Value of sales by sector Thousand Dollars | Value added contribution Percentage of GNP Contribution | Offshore fleet & exported fishery products Thousand Dollars |
|--|--|---|---|---|---|--|--|--|
| Domestic Harvest: Edible | - | 100.0 | \$2,989,801 | 62.8 | \$1,878,654 | \$2,989,801 | 7.4 | - |
| Industrial Harvest not landed in U.S | - | 100.0 | \$103,836 | 61.2 | \$63,564 | \$103,836 | 0.2 | - |
| Imports, Unprocessed | \$3,625,726 | - | - | 68.9 | \$114,322 | \$165,888 | 0.4 | \$165,888 |
| Exports, Unprocessed | - | - | - | - | - | \$3,625,726 | - | - |
| Primary Wholesale and Processing | \$5,978,279 | 96.9 | \$5,795,554 | 60.4 | \$3,500,499 | \$11,773,833 | 13.8 | - |
| Imports, Processed | \$4,700,045 | - | - | - | - | \$4,700,045 | - | - |
| Exports, Processed | - | - | - | - | - | - | - | \$1,618,956 |
| Secondary Wholesale and Processing: Edible | \$14,700,749 | 62.7 | \$9,218,854 | 28.0 | \$2,585,293 | \$23,919,603 | 10.2 | - |
| Industrial | \$154,174 | 62.7 | \$96,683 | 28.0 | \$27,113 | \$250,856 | 0.1 | - |
| Retail Trade from Food Service | \$11,476,092 | 182.4 | \$20,933,093 | 69.8 | \$14,603,579 | \$32,409,185 | 57.4 | - |
| Retail Trade from Stores | \$12,443,510 | 33.4 | \$4,158,905 | 64.2 | \$2,671,329 | \$16,602,415 | 10.5 | - |
| TOTAL U.S. VALUE ADDED ACTIVITY: | | | \$25,444,353 | | | | 100.0 | |
| CONSUMERS EXPENDITURES (& WHOLESALE PURCHASES OF INDUSTRIAL PRODUCTS) FOR FISHERY PRODUCTS: | | | | | | \$49,262,457 | | |

(1) Includes industrial products and landings by U.S.-flag vessels at U.S. ports, foreign ports, and transfers to internal water processing vessels.
 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.

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.

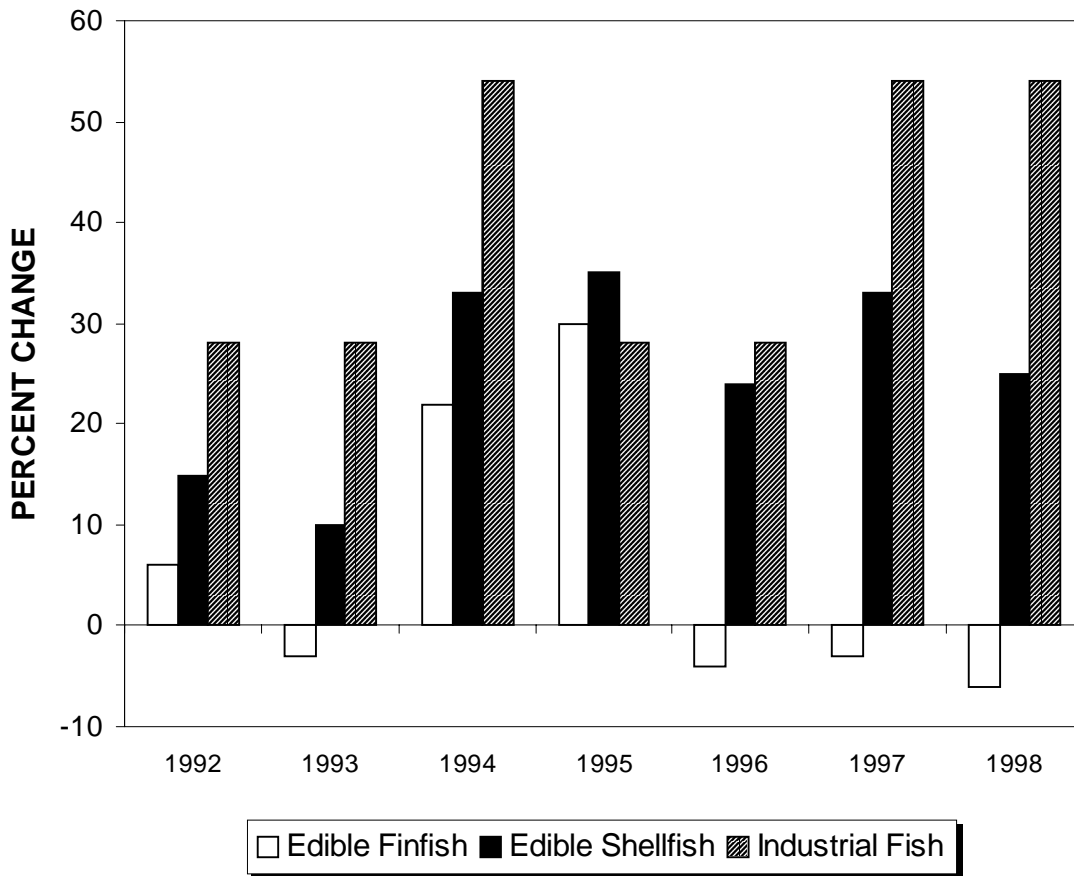
That number was then divided by the 1982 value to obtain the final index:

$$\frac{(100 \times \text{Current price} \times \text{1982 quantity})}{\text{1982 Annual value}} = \text{Index}$$

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 U. S. commercial landings tables on pages 1 through 4. 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).

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 1982 and a \$1.00 a pound in 1986 would have an index of 133 in 1986. In 1998, if the price of the same species increased to \$1.07, the index in 1998 would be 143.

**PERCENT CHANGE IN THE EXVESSEL PRICE INDEX, 1992-1998
(CHANGE RELATIVE TO BASE YEAR=1982)**



PRICES

INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1992-98 (1982=100)

| Species | 1992 (1) | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|--|------------|------------|------------|------------|------------|------------|------------|
| Groundfish, et al: | | | | | | | |
| Cod | 105 | 105 | 92 | 77 | 76 | 84 | 68 |
| Haddock | 219 | 277 | 287 | 277 | 239 | 218 | 253 |
| Pollock: | | | | | | | |
| Atlantic | 297 | 299 | 365 | 412 | 311 | 255 | 294 |
| Alaska | 194 | 194 | 212 | 161 | 160 | 170 | 124 |
| Flounders | 60 | 61 | 80 | 96 | 91 | 63 | 67 |
| Total groundfish, et al. | 108 | 115 | 125 | 125 | 115 | 100 | 99 |
| Halibut | 91 | 115 | 171 | 173 | 199 | 195 | 165 |
| Sea herring | 86 | 63 | 86 | 126 | 137 | 63 | 46 |
| Salmon: | | | | | | | |
| Chinook | 112 | 81 | 76 | 76 | 63 | 70 | 64 |
| Chum | 112 | 95 | 58 | 66 | 36 | 49 | 39 |
| Pink | 69 | 59 | 73 | 67 | 38 | 52 | 61 |
| Sockeye | 136 | 80 | 101 | 100 | 94 | 103 | 131 |
| Coho | 84 | 74 | 76 | 54 | 48 | 70 | 54 |
| Total salmon | 113 | 78 | 85 | 82 | 69 | 81 | 90 |
| Swordfish | 111 | 92 | 107 | 104 | 103 | 91 | 70 |
| Tuna: | | | | | | | |
| Albacore | 147 | 132 | 125 | 120 | 130 | 124 | 99 |
| Bluefin | 477 | 766 | 666 | 954 | 229 | 353 | 295 |
| Skipjack | 72 | 85 | 127 | 83 | 82 | 93 | 79 |
| Yellowfin | 96 | 112 | 205 | 283 | 113 | 126 | 100 |
| Total tuna | 97 | 117 | 181 | 212 | 105 | 118 | 96 |
| Total edible finfish | 106 | 97 | 122 | 130 | 96 | 97 | 94 |
| Clams: | | | | | | | |
| Hard | 135 | 113 | 105 | 113 | 148 | 163 | 174 |
| Ocean Quahog | 124 | 128 | 129 | 136 | 142 | 145 | 148 |
| Soft | 222 | 233 | 248 | 250 | 205 | 236 | 238 |
| Surf | 83 | 88 | 118 | 118 | 115 | 116 | 103 |
| Total clams | 133 | 126 | 133 | 138 | 147 | 159 | 161 |
| Crabs: | | | | | | | |
| Blue | 183 | 201 | 260 | 284 | 266 | 271 | 271 |
| Dungeness | 124 | 95 | 145 | 176 | 143 | 210 | 192 |
| King | 139 | 127 | 146 | 104 | 100 | 94 | 80 |
| Snow | 60 | 78 | 144 | 237 | 130 | 76 | 54 |
| Total crabs | 124 | 123 | 166 | 182 | 144 | 135 | 121 |
| American lobster | 125 | 117 | 128 | 141 | 147 | 138 | 138 |
| Oysters | 225 | 183 | 175 | 179 | 214 | 199 | 188 |
| Scallops: | | | | | | | |
| Bay | 150 | 161 | 49 | 55 | 69 | 111 | 90 |
| Calico | (2) | (2) | 94 | 124 | - | 217 | - |
| Sea | 132 | 159 | 138 | 138 | 153 | 179 | 166 |
| Total scallops | 118 | 141 | 126 | 131 | 129 | 178 | 141 |
| Shrimp: | | | | | | | |
| Gulf and South Atlantic | 86 | 80 | 110 | 99 | 88 | 106 | 94 |
| Other | 113 | 128 | 142 | 179 | 148 | 134 | 331 |
| Total shrimp | 88 | 82 | 111 | 103 | 91 | 107 | 105 |
| Total edible shellfish | 115 | 110 | 138 | 135 | 124 | 133 | 125 |
| Total edible fish and shellfish | 111 | 104 | 131 | 133 | 111 | 117 | 111 |
| Industrial fish, | | | | | | | |
| Menhaden | 128 | 128 | 154 | 128 | 128 | 154 | 154 |
| All fish and shellfish | 112 | 105 | 132 | 132 | 112 | 119 | 113 |

(1) Revised.

(2) Confidential data.

EMPLOYMENT, CRAFT, AND PLANTS

ESTIMATED NUMBER OF COMMERCIAL FISHING VESSELS (1) AND FISHING BOATS (2) BY REGION AND STATE, 1996 - 1997

| Area and State | 1996 | | | 1997 | | |
|---------------------------------|---------|--------|--------|---------|--------|--------|
| | Vessels | Boats | Total | Vessels | Boats | Total |
| Northeast: | | | | | | |
| Connecticut | 168 | 409 | 577 | 225 | 377 | 602 |
| Delaware | 161 | NA | 161 | 175 | NA | 175 |
| Maine | 1,773 | 5,454 | 7,227 | 1,733 | 5,828 | 7,561 |
| Maryland (3) | 33 | NA | 33 | 33 | NA | 33 |
| Massachusetts | 790 | 4,525 | 5,315 | 737 | 4,510 | 5,247 |
| New Hampshire | 132 | 474 | 606 | 128 | 483 | 611 |
| New Jersey | 360 | 1,167 | 1,527 | 420 | 1,181 | 1,601 |
| New York (4) | 693 | 2,936 | 3,629 | 689 | 2,541 | 3,230 |
| Rhode Island | 299 | 2,538 | 2,837 | 308 | 2,469 | 2,777 |
| Virginia (3) | 122 | NA | 122 | 122 | NA | 122 |
| South Atlantic and Gulf: | | | | | | |
| North Carolina | 814 | NA | 814 | 835 | NA | 835 |
| South Carolina | 501 | NA | 501 | 652 | NA | 652 |
| Georgia | 349 | NA | 349 | 351 | NA | 351 |
| Florida | 2,531 | 9,425 | 11,956 | 2,437 | 6,648 | 9,085 |
| Alabama | 378 | 720 | 1,098 | 359 | 1,320 | 1,679 |
| Mississippi | 438 | 874 | 1,312 | 591 | 856 | 1,447 |
| Louisiana | 2,839 | 11,883 | 14,722 | 2,650 | 10,987 | 13,637 |
| Texas | NA | NA | NA | NA | NA | NA |
| West Coast: | | | | | | |
| Alaska | 7,044 | 9,295 | 16,339 | 7,098 | 9,344 | 16,442 |
| Washington | 1,909 | 1,292 | 3,201 | 1,071 | 585 | 1,656 |
| Oregon | 860 | 389 | 1,249 | 732 | 328 | 1,060 |
| California | 1,767 | 1,483 | 3,250 | 1,700 | 1,421 | 3,121 |
| Hawaii | 2,636 | NA | 2,636 | 2,493 | NA | 2,493 |
| Great Lakes (5) | | | | | | |
| Illinois | 5 | NA | 5 | 5 | NA | 5 |
| Indiana | NA | NA | NA | NA | NA | NA |
| Michigan | 61 | 75 | 136 | 61 | 75 | 136 |
| Minnesota | 1 | 23 | 24 | 1 | 23 | 24 |
| New York | 3 | 17 | 20 | 1 | NA | 1 |
| Ohio | 30 | 14 | 44 | 28 | 26 | 54 |
| Pennsylvania | 4 | 2 | 6 | 2 | 1 | 3 |
| Wisconsin | 106 | 42 | 148 | 97 | 44 | 141 |

(1) Vessels are documented craft greater than 5 net registered tons.

(2) Boats are craft less than 5 net registered tons.

(3) Only Federal collected data are available. Inshore data not available.

(4) Excludes vessels and boats in the Great Lakes.

(5) Commercial fishing fleet sizes for the Great Lakes states represent only the number of licenses issued by the State; therefore, may not be an accurate total. Tribal data are not included in his table.

NA -- Data not available separately.

PROCESSORS AND WHOLESALERS: PLANTS, AND EMPLOYMENT, 1997

| Area and State | Processing | | | | Wholesale (1) | | | | Total | | | | |
|--|--------------|--------------------|---------------|--------------|--------------------|---------------|--------------|--------------------|---------------|--|--|--|--|
| | Plants | Employment average | | Plants | Employment average | | Plants | Employment average | | | | | |
| | | Season | Year | | Season | Year | | Season | Year | | | | |
| New England: | | | | | | | | | | | | | |
| Maine | 54 | 1,828 | 1,768 | 223 | (2) | 1,516 | 277 | (3) | 3,284 | | | | |
| New Hampshire | 9 | 303 | 301 | 29 | (2) | 194 | 38 | (3) | 495 | | | | |
| Massachusetts | 73 | 2,653 | 2,647 | 303 | (2) | 2,473 | 376 | (3) | 5,120 | | | | |
| Rhode Island | 19 | 389 | 384 | 58 | (2) | 360 | 77 | (3) | 744 | | | | |
| Connecticut | 4 | 68 | 68 | 37 | (2) | 279 | 41 | (3) | 347 | | | | |
| Total | 159 | 5,241 | 5,168 | 650 | (2) | 4,822 | 809 | (3) | 9,990 | | | | |
| Mid-Atlantic: | | | | | | | | | | | | | |
| New York | 10 | 193 | 193 | 340 | (2) | 2,354 | 350 | (3) | 2,547 | | | | |
| New Jersey | 16 | 1,079 | 1,078 | 138 | (2) | 909 | 154 | (3) | 1,987 | | | | |
| Pennsylvania | 6 | 1,015 | 1,015 | 60 | (2) | 742 | 66 | (3) | 1,757 | | | | |
| Delaware | (4) | (4) | (4) | (4) | (2) | (4) | (4) | (3) | (4) | | | | |
| District of Columbia | - | - | - | 6 | (2) | 87 | 6 | (3) | 87 | | | | |
| Maryland | 36 | 1,349 | 1,234 | 90 | (2) | 778 | 126 | (3) | 2,012 | | | | |
| Virginia | 45 | 1,858 | 1,828 | 87 | (2) | 603 | 132 | (3) | 2,431 | | | | |
| Total | 113 | 5,494 | 5,348 | 721 | (2) | 5,473 | 834 | (3) | 10,821 | | | | |
| South Atlantic: | | | | | | | | | | | | | |
| North Carolina | 52 | 1,454 | 1,451 | 100 | (2) | 893 | 152 | (3) | 2,344 | | | | |
| South Carolina | 12 | 193 | 191 | 27 | (2) | 206 | 39 | (3) | 397 | | | | |
| Georgia | 10 | 1,149 | 1,149 | 56 | (2) | 534 | 66 | (3) | 1,683 | | | | |
| Florida, East Coast | 28 | 816 | 816 | (5) | (2) | (5) | 28 | (3) | 816 | | | | |
| Total | 102 | 3,612 | 3,607 | 183 | (2) | 1,633 | 285 | (3) | 5,240 | | | | |
| Gulf: | | | | | | | | | | | | | |
| Florida, West Coast | 91 | 2,202 | 2,192 | 369 | (2) | 3,145 | 460 | (3) | 5,337 | | | | |
| Alabama | 84 | 1,493 | 1,416 | 55 | (2) | 867 | 139 | (3) | 2,283 | | | | |
| Mississippi | 38 | 916 | 913 | 36 | (2) | 249 | 74 | (3) | 1,162 | | | | |
| Louisiana | 136 | 3,439 | 2,998 | 163 | (2) | 1,201 | 299 | (3) | 4,199 | | | | |
| Texas | 30 | 1,356 | 1,333 | 117 | (2) | 1,265 | 147 | (3) | 2,598 | | | | |
| Total | 379 | 9,406 | 8,852 | 740 | (2) | 6,727 | 1,119 | (3) | 15,579 | | | | |
| Pacific: | | | | | | | | | | | | | |
| Alaska | 201 | 9,875 | 7,652 | 213 | (2) | 336 | 414 | (3) | 7,988 | | | | |
| Washington | 96 | 5,292 | 3,927 | 198 | (2) | 1,711 | 294 | (3) | 5,638 | | | | |
| Oregon | 40 | 1,466 | 1,464 | 23 | (2) | 322 | 63 | (3) | 1,786 | | | | |
| California | 141 | 6,975 | 6,974 | 393 | (2) | 4,791 | 534 | (3) | 11,765 | | | | |
| Total | 478 | 23,608 | 20,017 | 827 | (2) | 7,160 | 1,305 | (3) | 27,177 | | | | |
| Inland States, Total | 38 | 1,742 | 1,730 | 343 | (2) | 3,642 | 381 | (3) | 5,372 | | | | |
| Other Areas or States: (6), Total | 28 | 8,976 | 8,976 | 56 | (2) | 623 | 84 | (3) | 8,976 | | | | |
| Grand total | 1,297 | 58,079 | 53,698 | 3,520 | (2) | 29,457 | 4,817 | (3) | 83,155 | | | | |

(1) Data are based on Standard Industrial Classification 5146 as reported to the Bureau of Labor Statistics.

(2) Not reported. (3) Can not be calculated. (4) Included with Inland States. (5) Included with Florida, West Coast.

(6) Includes American Samoa, Hawaii, and Puerto Rico.

FISHERY PRODUCTS INSPECTION

FISHERY PRODUCTS AND ESTABLISHMENTS INSPECTED IN CALENDAR YEAR, 1998

| Region | Edible fishery products | | | | | | |
|--------------------|-------------------------|---------------------|-----------------------------|----------------|-------------------|----------------|----------------|
| | Establishment (1) | | Amount inspected | | | | |
| | SIFE (2) | In- plant (3) | Grade A (4) | PUFI (4) | No mark (5) | Lot (6) | Total |
| | -Average number- | | ----- Thousand pounds ----- | | | | |
| Northeast | 0 | 105 | 30,096 | 176,476 | 85,543 | 100,899 | 393,015 |
| Southeast | 0 | 122 | 17,491 | 85,815 | 56,565 | 104,518 | 264,389 |
| West | 8 | 63 | 22,751 | 38,858 | 47,489 | 114,231 | 223,328 |
| Total, 1998 | 8 | 289 | 70,338 | 301,149 | 189,597 | 319,648 | 880,733 |
| Total, 1997 | 16 | 318 | 64,795 | 373,431 | 179,891 | 310,699 | 928,816 |

(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. As of December 1998, 89 of these were in the Hazard Analysis Critical Control Point (HACCP) Program.

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

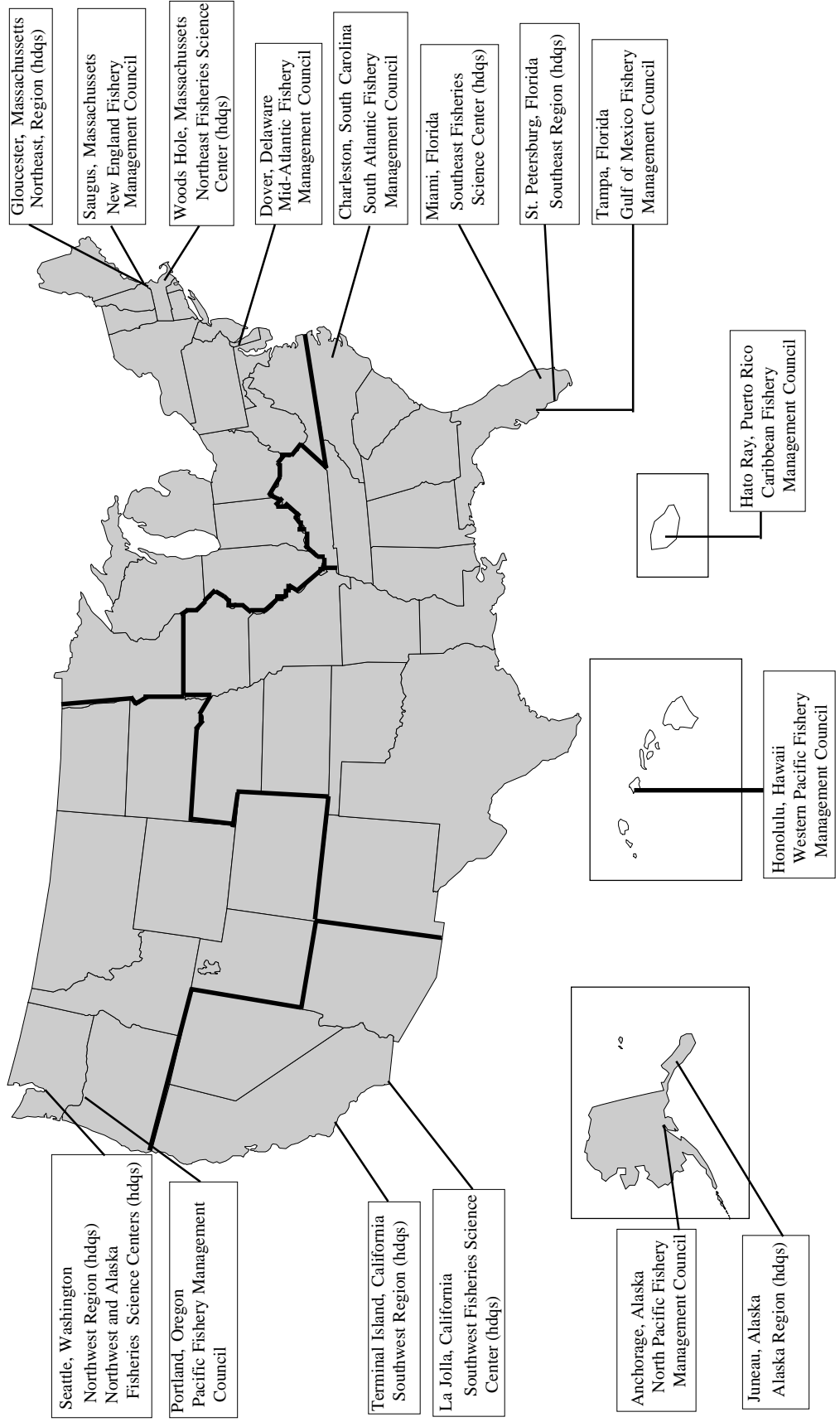
(5) Products processed under inspection in inspected establishments but bearing no USDC inspection mark.

(6) Lot inspected and marked 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, Seafood Inspection Division, F/SI.

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



THE MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT

The Magnuson-Stevens Fishery Conservation and Management Act, Public Law 94-265 as amended (Magnuson-Stevens Act), provides for the conservation and management of 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-Stevens Act, the Secretary of State, in cooperation with the Secretary of Commerce, negotiates Governing International Fishery Agreements (GIFAs) with foreign nations requesting to fish within the EEZ. After a GIFA is signed, it is transmitted by the President to the Congress for ratification.

FOREIGN FISHING PERMITS

Title II of the Magnuson-Stevens Act governs foreign fishing in the EEZ. The process applied to foreign fishing has been described in prior issues of this publication. As U.S. fishing capacity grew, foreign participation in directed fisheries, as well as in foreign joint ventures in which U.S. vessels delivered U.S. harvested fish to permitted foreign vessels in the EEZ diminished until, in 1991, foreign vessels no longer were permitted to conduct directed fishing in the EEZ. This marked the achievement of one of the objectives of the Magnuson-Stevens Act, that is, the development

of the U.S. fishing industry to take what were in 1976 underutilized species, and the displacement of directed foreign fishing effort in the EEZ.

As a result of the above, there has been no total allowable level of foreign fishing since 1991, although 15,000 mt of Atlantic mackerel and 40,000 mt of Atlantic herring were available for joint venture fishing in 1998. NMFS continues to maintain certain regulations pertaining to foreign fishing should there be a situation in the future in which allowing limited foreign fishing in an underutilized fishery would be of advantage to the U.S. fishing industry.

FMPs and PMPs

Under the Magnuson-Stevens 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 prepare FMPs that cover domestic and foreign fishing efforts, the FMPs are submitted to the Secretary of Commerce (Secretary) 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 is empowered to prepare FMPs in the Atlantic and Gulf of Mexico for highly migratory species. 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, 1998, three Preliminary Fishery Management Plans (PMPs) were in effect, some of which have been amended since first being implemented.

The Atlantic swordfish, Atlantic sharks, and Atlantic billfish fisheries are currently being managed by the Secretary under the Magnuson-Stevens Act

THE MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT

and the Western Atlantic bluefin tuna fishery is managed under the Magnuson-Stevens Act and the Atlantic Tunas Convention Act.

FISHERY MANAGEMENT PLANS (FMPs)

Under section 304 of the Magnuson-Stevens Act, all Council-prepared FMPs must be reviewed for approval by the Secretary. After FMPs have been approved under section 304 of the Magnuson-Stevens Act, they are implemented by Federal regulations, under section 305 of the Act. As of December 31, 1998, there are 39 FMPs in place. Of these, three are Secretarial FMPs for Atlantic highly migratory species. The 36 FMPs the Councils prepared are listed below. The FMPs are amended by the Councils and the amendments are submitted for approval under the same Secretarial review process as new FMPs. Most of the FMPs listed have been amended since initial implementation. Those marked with a double asterisk (**) were amended in 1998.

Northeast Multispecies
American Lobster
Atlantic Bluefish
Atlantic Coast Red Drum
Atlantic Mackerel, Squid, and Butterfish
Atlantic Salmon
Atlantic Sea Scallops
Atlantic Surf Clams and Ocean Quahogs (**)
Summer Flounder, Scup, and Black Sea Bass
Gulf and South Atlantic Spiny Lobster

Caribbean Reef Fish
Gulf of Mexico Reef Fish
Gulf of Mexico Corals
South Atlantic Corals
South Atlantic Golden Crab
Caribbean Coral Reef Resources
Gulf of Mexico Shrimp
Gulf of Mexico Stone Crab (**)
Gulf of Mexico Red Drum
Coastal Migratory Pelagics
Caribbean Queen Conch
Caribbean Spiny Lobster
South Atlantic Snapper/Grouper (**)
South Atlantic Shrimp
Northern Anchovy
King and Tanner Crab
Commercial and Recreational Salmon
High Seas Salmon
Pacific Coast Groundfish
Gulf of Alaska Groundfish (**)
Bering Sea and Aleutian Islands Groundfish (**)
Alaska Scallops (**)
Western Pacific Crustaceans
Western Pacific Precious Corals (**)
Western Pacific Bottomfish and Seamount Groundfish
Western Pacific Pelagics

In 1998, NMFS published 869 documents in the Federal Register which affected domestic fishing issues and either proposed or implemented fishery management actions (i.e., FMP and amendments). The documents published include hearing, meeting, correction, and proposed and final rule documents.

THE MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT

REGIONAL FISHERY MANAGEMENT COUNCILS

| <u>Councils</u> | <u>Constituent States</u> | <u>Telephone Number</u> | <u>Executive Directors and Addresses</u> |
|------------------------|--|-----------------------------------|--|
| NEW ENGLAND | (Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut) | 781-231-0422 FAX: 617-565-8937 | Paul J. Howard Suntaug Office Park 5 Broadway (Rt. 1) Saugus, MA 01906 |
| MID-ATLANTIC | (New York, New Jersey, Delaware, Pennsylvania, Maryland, Virginia, and North Carolina) | 302-674-2331 FAX: 674-5399 | Daniel T. Furlong Federal Bldg., Rm. 2115 300 South New St. Dover, DE 19901 |
| SOUTH ATLANTIC | (North Carolina, South Carolina, Georgia and Florida) | 843-571-4366 FAX: 769-4520 | Robert K. Mahood 1 Southpark Circle Suite 306 Charleston, SC 29407 |
| GULF OF MEXICO | (Texas, Louisiana, Mississippi, Alabama, and Florida) | 843-228-2815 FAX: 225-7015 | Wayne E. Swingle 3018 U.S. Highway 301 North, Suite 1000 Tampa, FL 33619 |
| CARIBBEAN | (U.S. Virgin Islands and Commonwealth of Puerto Rico) | 787-766-5926 FAX: 766-6239 | Miquel A. Rolon 268 Ave. Munoz Rivera Suite 1108 San Juan, PR 00918 |
| PACIFIC | (California, Washington, Oregon, and Idaho) | 503-326-6352 FAX: 326-6831 | Lawrence D. Six 2130 S.W. 5th Ave. Suite 224 Portland, OR 97201 |
| NORTH PACIFIC | (Alaska, Washington, and Oregon) | 907-271-2809 FAX: 271-2817 | Clarence G. Pautzke 605 W. 4th Ave. Room 306 Anchorage, AK 99501 |
| WESTERN PACIFIC | (Hawaii, American Samoa, Guam, and Commonwealth of the Northern Mariana Islands) | 808-522-8220 FAX: 522-8226 | Kitty M. Simonds 1164 Bishop St. Suite 1400 Honolulu, HI 96813 |

MSFCMA

OPTIMUM YIELD (OY) AND OTHER SPECIFICATIONS, INCLUDING AMOUNTS AVAILABLE FOR JOINT VENTURE PROCESSING: NORTH ATLANTIC, BY SPECIES, 1998 (1)

| Item | Loligo squid | Illex squid | Atlantic mackerel | Butter- fish | Atlantic herring |
|------------|---------------------------------------|----------------|----------------------|-----------------|---------------------|
| | ----- Metric tons, round weight ----- | | | | |
| Maximum OY | (2) 26,000 | (2) 24,000 | (3) | (2) 16,000 | (4) 89,000 |
| ABC | 21,000 | 19,000 | 382,000 | 7,200 | 89,220 |
| Initial OY | 21,000 | 19,000 | (5) 80,000 | 5,900 | 89,220 |
| DAH | 21,000 | 19,000 | (6) 80,000 | 5,900 | 89,220 |
| DAP | 21,000 | 19,000 | 50,000 | 5,900 | 49,220 |
| JVP | 0 | 0 | 15,000 | 0 | 40,000 |
| TALFF | 0 | 0 | 0 | 0 | 0 |

(1) OY=Optimum Yield; ABC=Allowable Biological Catch; DAH=Domestic Annual Harvest; DAP=Domestic Annual Processing; JVP=Joint Venture Processing; and TALFF=Total Allowable Level of Foreign Fishing.

(2) Maximum OY based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.

(3) Not applicable based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.

(4) Maximum OY based on the Preliminary Fishery Management Plan for Atlantic Herring.

(5) Initial OY can increase during the year, but the total cannot exceed 382,000 metric tons.

(6) Includes 15,000 metric tons of Atlantic mackerel recreational allocation.

Source:--NMFS, Office of Sustainable Fisheries, F/SF; and NMFS, Northeast Region, F/NER.

GENERAL ADMINISTRATIVE INFORMATION

UNITED STATES DEPARTMENT OF COMMERCE

*14th and Constitution Ave., NW
Washington, DC 20230*

**MAIL
ROUTING
CODE**

**TELEPHONE
NUMBER**

| | | |
|----|---|--------------|
| -- | Secretary of Commerce William Daley | 202-482-2112 |
| A | Under Secretary for Oceans and Atmospheric D. James Baker | 202-482-3436 |

NATIONAL MARINE FISHERIES SERVICE

*1315 East-West Highway
Silver Spring Metro Center #3 (SSMC)
Silver Spring, MD 20910*

| | | |
|--------|---|--------------|
| F | Assistant Administrator for Fisheries -- Penelope D. Dalton | 301-713-2239 |
| | Deputy Assistant Administrator for Fisheries -- Andrew A. Rosenberg | 301-713-2239 |
| Fx1 | Staff Office for Industry and Trade -- Linda Chaves | 301-713-2379 |
| Fx2 | Staff Office for Intergovernmental and Recreational Fisheries -- Richard Schaefer | 301-427-2401 |
| Fx3 | Equal Employment Opportunity -- Carolyn Stiles | 301-713-2252 |
| F/SI | Seafood Inspection Program -- Samuel W. McKeen | 301-713-2351 |
| F/EN | Office of Law Enforcement -- Dale Jones | 301-427-2300 |
| F/EN1 | Enforcement Operations Division | 301-427-2300 |
| F/EN11 | Enforcement Programs Branch | 301-427-2300 |
| F/HC | Office of Habitat Conservation -- Andrew Kemmerer | 301-713-2325 |
| F/HCx1 | Chesapeake Bay Program Office | 410-267-5660 |
| F/HC1 | Watershed Division | 301-713-2325 |
| F/HC2 | Habitat Protection Division | 301-713-2325 |
| F/HC3 | Habitat Restoration Division | 301-713-0174 |

(CONTINUED)

GENERAL ADMINISTRATIVE INFORMATION

UNITED STATES DEPARTMENT OF COMMERCE

Silver Spring, Md. 20910

| MAIL ROUTING CODE | | TELEPHONE NUMBER |
|----------------------------------|--|-----------------------------|
| F/OMI | Office of Operations, Management & Information -- Lois Gajdys | 301-713-2239 |
| F/OMI1 | Administrative & Budget Processes Division | 301-713-2245 |
| F/OMI2 | Planning and Development Division | 301-713-2252 |
| F/OMI3 | Information Management Division | 301-713-2372 |
| F/PR | Office of Protected Resources -- Vacant | 301-713-2332 |
| F/PRx1 | Marine Biodiversity Team | 301-713-2319 |
| F/PR1 | Permits and Documentation Division | 301-713-2289 |
| F/PR2 | Marine Mammal Conservation Division | 301-713-2322 |
| F/PR3 | Endangered Species Division | 301-713-1401 |
| F/SF | Office of Sustainable Fisheries -- Gary Matlock | 301-713-2334 |
| F/SF1 | Highly Migratory Species Division | 301-713-2347 |
| F/SF2 | Financial Services Division | 301-713-2390 |
| F/SF3 | Domestic Fisheries Division | 301-713-2341 |
| F/SF4 | International Fisheries Division | 301-713-2276 |
| F/SF5 | Regulatory Services Division | 301-713-2355 |
| F/SF6 | National Seafood Laboratory | 301-713-2334 |
| F/ST | Office of Science and Technology -- William Fox | 301-713-2367 |
| F/ST1 | Fisheries Statistics & Economics Division | 301-713-2328 |
| F/ST2 | Research Analysis and Coordination Division | 301-713-2363 |
| F/ST21 | Scientific Publications Unit | 206-526-6107 |
| F/ST3 | International Science Coordination and Analysis Division | 301-713-2288 |
| LA11 | Office of Congressional Affairs - Fisheries -- Peter Hill | 301-713-2263 |
| PAF | Office of Public Affairs - Fisheries -- Scott Smullen / Gordon Helms | 301-713-2370 |
| GCF | Office of General Counsel - Fisheries -- Margaret Hayes | 301-713-2231 |

GENERAL ADMINISTRATIVE INFORMATION

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES

| <u>MAIL ROUTING CODE</u> | <u>OFFICE</u> | <u>TELEPHONE and FAX NUMBER</u> | <u>LOCATION</u> |
|----------------------------------|--|---|---------------------------|
| F/NER | Northeast Region One Blackburn Drive Gloucester, MA 01930 | 978-281-9300 Fax-281-9371 | Gloucester, MA |
| F/NEC3 | Northeast Fisheries Science Center 166 Water St. - Rm. 312 Woods Hole, MA 02543 | 508-495-2233 Fax-548-5124 | Woods Hole, MA |
| | Woods Hole Laboratory 166 Water St. Woods Hole, MA 02543 | 508-495-5123 Fax-495-2258 | Woods Hole, MA |
| | Narragansett Laboratory 28 Tarwell Drive Narragansett, RI 02882 | 401-782-3200 Fax-782-3201 | Narragansett, RI |
| | Milford Laboratory Milford, CT 06460 | 860-873-4200 FAX-873-4212 | Milford, CT |
| | Sandy Hook Laboratory Building 74, McGruder Highlands, NJ 07732 | 732-872-3000 FAX-872-3088 | Highlands, NJ |
| F/NESC3 | Natl. Systematics Laboratory, MRC153 10th & Constitution Ave., NW Washington, DC 20560 | 202-357-2550 FAX-357-2986 | Washington, DC |
| F/SER | Southeast Region 9721 Executive Center Drive, N. St. Petersburg, FL 33702 | 727-570-5301 FAX-570-5300 | St. Petersburg, FL |
| F/SEFSC | Southeast Fisheries Science Center 75 Virginia Beach Dr. Miami, FL 33149 | 305-361-4284 FAX-361-4219 | Miami, FL |
| F/SEC4 | Miami Laboratory 75 Virginia Beach Dr. Miami, FL 33149 | 305-361-4225 FAX-361-4499 | Miami, FL |
| F/SEC5 | Mississippi Laboratories 3209 Frederick St., P.O. Drawer 1207 Pascagoula, MS 39567 | 228-762-4591 FAX-769-9200 | Pascagoula, MS |
| F/SEC6 | Panama City Laboratory 3500 Delwood Beach Rd. Panama City, FL 32408 | 850-234-6541 FAX-235-3559 | Panama City, FL |
| F/SEC7 | Galveston Laboratory 4700 Avenue U Galveston, TX 77551 | 409-766-3500 FAX-766-3508 | Galveston, TX |
| F/SEC8 | Charleston Laboratory 219 Fort Johnson Rd. Charleston, SC 29412 | 803-762-8500 FAX-762-8700 | Charleston, SC |

(Continued)

GENERAL ADMINISTRATIVE INFORMATION

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES

| <u>MAIL ROUTING CODE</u> | <u>OFFICE</u> | <u>TELEPHONE and FAX NUMBER</u> | <u>LOCATION</u> |
|----------------------------------|--|---|-----------------------|
| F/SEC9 | Beaufort Laboratory 101 Pivers Island Beaufort, NC 28516 | 919-728-3595 FAX-728-8784 | Beaufort, NC |
| F/NWR | Northwest Region 7600 Sand Point Way, N.E. BIN C15700, Bldg. 1 Seattle, WA 98115 | 206-526-6150 FAX-526-6426 | Seattle, WA |
| F/NWC | Northwest Fisheries Science Center West Bldg. - Rm. 363 2725 Montlake Boulevard, East Seattle, WA 98112 | 206-860-3200 FAX-860-3217 | Seattle, WA |
| F/SW | Southwest Region 501 West Ocean Blvd., Suite 4200 Long Beach, CA 90802 | 562-980-4000 FAX-980-4018 | Long Beach, CA |
| F/SWFSC | Southwest Fisheries Science Center 8604 La Jolla Shores Dr. P.O. Box 271 La Jolla, CA 92038 | 619-546-7000 FAX-546-5655 | La Jolla, CA |
| F/SWC2 | Honolulu Laboratory 2570 Dole Street, Rm. 106 Honolulu, HI 96822 | 808-983-5300 FAX-943-1248 | Honolulu, HI |
| | Pacific Islands Area Office 1601 Kapiolani Blvd., Rm. 1110 Honolulu, HI 96814 | 808-973-2937 FAX-983-2900 | Honolulu, HI |
| F/SWC3 | Tiburon Laboratory 3150 Paradise Dr. Tiburon, CA 94920 | 415-435-3149 FAX-435-3675 | Tiburon, CA |
| F/SWC4 | Pacific Fisheries Environmental Group 1352 Lighthouse Ave. Pacific Grove, CA 93950 | 408-648-8515 FAX-648-8440 | Pacific Grove, CA |
| F/AKR | Alaska Region 709 West 9th Street, Room 453 P.O. Box 21668 Juneau, AK 99802 | 907-586-7221 FAX-586-7249 | Juneau, AK |
| F/AKC | Alaska Fisheries Science Center, 7600 Sand Point Way, N.E. BIN C15700 - Bldg. #4 - Rm. 2149 Seattle, WA 98115 | 206-526-4000 FAX-526-4004 | Seattle, WA |
| | Kodiak Laboratory Kodiak Fishery Research Center 301 Research Court Kodiak, AK 99615 | 907-481-1700 FAX-481-1701 | Kodiak, AK |
| F/AKC4 | Auke Bay Laboratory 11305 Glacier Highway Auke Bay, AK 99801 | 907-789-6000 FAX-789-6094 | Auke Bay, AK |

GENERAL ADMINISTRATIVE INFORMATION

NATIONAL MARINE FISHERIES SERVICE NATIONAL FISHERY STATISTICS OFFICES

| <u>CITY</u> | <u>TELEPHONE NUMBER</u> | <u>NAME AND ADDRESS</u> |
|-------------|-----------------------------|-------------------------|
|-------------|-----------------------------|-------------------------|

NORTHEAST REGION

NEW ENGLAND:

| | | |
|-----------------------|--|---|
| (1) Portland | 207-780-3322 FAX:780-3340 | Robert C. Morrill / Scott McNamara / Jessica Holton, Marine Trade Center, Suite 212, Two Portland Fish Pier, Portland, ME 04101 |
| Rockland | 207-594-5969 FAX:596-7651 | Peter P. Marckoon, Federal Bldg., 21 Limerock St., Rm. 217, P.O. Box 708, Rockland, ME 04841 |
| Boston | 617-223-8015 FAX:223-8526 617-223-8012 FAX:223-8526 | Paul Sheahan, Statistics Office, 408 Atlantic Ave., Rm. 141, Boston, MA 0221 Jack French, Boston Market News, 408 Atlantic Ave., Rm. 141, Boston, MA 02210 |
| (1) Gloucester | 978-281-9304 FAX:281-9161 | Gregory R. Power, Fishery Inf. Section, One Blackburn Dr., Gloucester, MA 01930 |
| Gloucester | 978-281-9363 FAX:281-9372 | Don Mason / William Heiskel1, Rm. 107, 1 Blackburn Dr. Gloucester, MA 01930 |
| New Bedford | 508-999-2452 FAX:990-2506 | Dennis E. Main / Sarah Pike, U.S. Custom House, 37 N. Second St., New Bedford, MA 0274 |
| Chatham | 508-945-5961 FAX:945-3793 | Lorraine Spenle, 29C Stage Harbor Road Chatham, MA 02633 |
| Woods Hole | 508-495-2000 FAX:548-2258 | John Mahoney, Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543 |
| Newport | 401-847-3115 FAX:842-0980 | Margaret Toner, Post Office Bldg., Thames St., Newport, RI 02840 |
| Pt. Judith | 401-783-7797 FAX:782-2113 | Walter Anoushian, 83 State St., 2nd floor, P.O. Box 547, Narragansett, RI 02882 |

MIDDLE ATLANTIC AND CHESAPEAKE:

| | | |
|-----------------------|--------------------------------------|---|
| New York | 212-620-3405 FAX:620-3577 | Leo Gaudin / R. Santangelo, New York Market News, 201 Varick St., Rm. 731, New York, NY 10014 |
| East Hampton | 516-324-3569 FAX:324-3314 | Erik Braun, 62 Newtown Lane, Suite 203, East Hampton, NY 11937 |
| Patchogue | 516-475-6988 FAX:289-8361 | David McKernan, Social Security Bldg., 50 Maple Ave., P.O.Box 606, Patchogue, L.I., NY 11772 |
| (1) Toms River | 732-349-3533 FAX:349-4319 | Eugene Steady / Joanne Pellegrino, 26 Main St., P.O. Box 143, Toms River, NJ 08754 |
| Cape May | 609-884-2113 FAX:884-4908 | Walt Makowski, 1382 Lafayette St., P.O. Box 624, Cape May, NJ 08204 |
| Sandy Hook | 908-872-3133 908-872-3068 | Kathy Carbo, 74 Magruder Rd., Highlands, NJ 07732 |
| Ocean City | 410-213-2761 FAX:213-7029 | Ingo Fleming, 12904 Kelly Bridge Rd., P.O. Box 474, Ocean City, MD 21842 |
| Hampton | 757-723-3369 FAX:728-3947 | David Ulmer / Steve Ellis / George Mattingly, 1926 Settlers Landing Rd., Suite F, P.O. Box 436, Hampton, VA 23669 |

SOUTHEAST REGION

SOUTH ATLANTIC AND GULF:

| | | |
|--------------------|--------------------------------------|--|
| (1)Beaufort | 252-728-8720 FAX:728-8772 | Nelson Johnson, Beaufort Laboratory, 101 Piver Island Rd., Beaufort, NC 28516 |
| New Smyrna Beach | 904-427-6562 FAX: SAME | Claudia Dennis, Coast Guard Station/Ponce, P.O. Box 2025, New Smyrna Beach, FL 32170 |
| Tequesta | 561-575-4461 FAX:361-4565 | H.Charles Schaefer / Michelle Gamby, 19100 S.E. Fedl. Highway, Tequesta, FL 33469 |
| (1)Miami | 305-361-4468 FAX:361-4460 | Guy S. Davenport / Pam Brown-Eyo, 75 Virginia Beach Dr., Miami, FL 33149 |

(Continued)

GENERAL ADMINISTRATIVE INFORMATION

NATIONAL MARINE FISHERIES SERVICE NATIONAL FISHERY STATISTICS OFFICES

| <u>CITY</u> | <u>TELEPHONE NUMBER</u> | <u>NAME AND ADDRESS</u> |
|-------------|-----------------------------|-------------------------|
|-------------|-----------------------------|-------------------------|

SOUTHEAST REGION

SOUTH ATLANTIC AND GULF:

| | | |
|-----------------------------|--|--|
| Key West | 305-294-1921 FAX: SAME | Edward J. Little, Jr., Post Office & Custom House Bldg., P.O.Box 269, Key West, FL 33040 |
| Fort Myers | 941-334-4364 FAX: SAME | Tom Herbert, 2000 Main St., Suite 409 Fort Myers, FL 33901 |
| St. Petersburg | 727-570-5393 FAX:570-5300 | Renee Roman / Greg Fairclough, 9721 Executive Center Dr., St. Petersburg, FL 3370 |
| Panama City | 850-234-6541 FAX:235-3558 | Deborah Fable / June Weeks, 3500 Delwood Beach Rd., Panama City, FL 32407 |
| Mobile | 334-441-6193 FAX: SAME | Ted Flowers, U.S.Coast Guard - ATC, P.O. Box 97, Mobile, AL 36608 |
| Pascagoula | 228-762-7402 FAX:769-9200 | Rene Labadens / Charles Armstrong, 3209 Frederic St., P.O. Box Drawer 1207, Pascagoula, MS 39567 |
| Chalmette | 504-277-0365 FAX:271-9150 | Maggie Bourgeois / Jay Boulet, 2626 Charles Dr., Suirte 201, Chalmette, LA 70043 |
| Golden Meadow | 504-632-4324 FAX: SAME | Gary J. Rousse, 290 E. 57th St. (Cutoff, LA 70345), P.O.Box 623, Golden Meadow, LA 70357 |
| Houma | 504-872-3321 FAX: SAME 504-872-1403 FAX: SAME | Kathleen Hebert, 425 Lafayette St., Rm. 128, Houma, LA 70360 Billy Ray Tucker, 1340 W. Tunnel Blvd., Suite 222, Houma, LA 70360 |
| Marrero | 504-340-5820 FAX: SAME | Jan Simpson, 5201 Westbank Expressway, Suite 312, Marrero, LA 70072 |
| New Iberia | 318-365-1558 FAX: SAME | Linda F. Picou, 705-A West Admiral Doyle Dr. New Iberia, LA 70560 |
| New Orleans | 504-589-6151 FAX: SAME | Debbie Batiste, 423 Canal St., Rm. 213, New Orleans, LA 70130 |
| Aransas Pass | 512-758-1043 FAX: SAME | Roy Spears, 132 Cleveland Blvd., P.O. Box 1815, Aransas Pass, TX 78336 |
| Brownsville/ Port Isabel | 210-548-2516 FAX: SAME | Kit Doncaster / Edie Lopez, Shrimp Turning Basin, HC 70 Box 15, Brownsville, TX 78521 |
| Freeport | 409-233-4551 FAX: SAME | Thomas R. Mauermann, Texas Gulf Bank, Suite 213, P.O.Box 2533, Freeport, TX 77542 |
| (1)Galveston | 409-766-3705 FAX:766-3543 | Margot Hightower or W. Keith Roberts, 4700 Avenue U, Bldg. 306 Galveston, TX 77551 |
| Port Arthur | 409-727-2271 FAX: SAME | Linda S. Trahan, Federal Bldg., Rm. 113, 2875 Jimmy Johnson Blvd., Port Arthur, TX 77640 |

SOUTHWEST REGION

| | | |
|--|--|---|
| (1)Long Beach, CA or Honolulu, HI | 562-980-4033 FAX:980-4047 | Patricia J. Donley, 501 West Ocean Boulevard, Rm. 4200, P.O. Box 32469, Long Beach, CA 90832 |
|--|--|---|

NORTHWEST REGION

| | | |
|-------------------|--|---|
| (1)Seattle | 206-526-6119 FAX:526-4461 | John K. Bishop, 7600 Sand Point Way, NE, Bldg. 1, BIN C 15700, Seattle, WA 98115 |
|-------------------|--|---|

ALASKA REGION

| | | |
|------------------|--|---|
| (1)Juneau | 907-586-7323 FAX:586-7465 | David Ham, Federal Building, 4th Floor, 709 West 9th St., P.O. Box 21668, Juneau, AK 99802 |
|------------------|--|---|

(1) Regional or area headquarters for statistics offices.

PUBLICATIONS

LIBRARY INFORMATION

The NOAA Library and Information Network Catalog (NOAALINC) is an integrated library system available on the Internet at www.lib.noaa.gov. NOAALINC represents the library holdings of the NOAA Central Library in Silver Spring, Maryland and 27 other NOAA libraries located nationwide. Currently, the NOAALINC contains over 230,000 items with 10,000-15,000 added each year.

NOAALINC provides several search methods to locate records of items. Users can search for keywords in titles, subject headings, authors, or series. Users can browse indexes of titles, subject headings, authors, series, or call number. Each bibliographic record shows a brief description of the item with a list of which libraries hold the item. The list of libraries will show the call number, item's specific information, and whether the item is available for circulation.

NOAALINC is available to anyone, without restriction, 24 hours a day, every day of the year. Visitors to the NOAA Central Library can also access the catalog thru workstations located throughout the Library. Remote users can access the catalog thru a link from the NOAA Central Library's homepage at - <http://www.lib.noaa.gov/>.

NOAA personnel may contact the nearest NOAA Library or the NOAA Central Library and arrange to borrow materials. Members of the general public should contact their local library to arrange for an interlibrary loan.

For further information contact the NOAA Central Library, 1315 East-West Highway, 2nd Floor, Silver Spring, MD 20910-3282. Telephone: 301-713-2607 (Ext. 124) or E-mail: reference@nodc.noaa.gov.

PUBLICATIONS AVAILABLE FROM U.S. GOVERNMENT PRINTING OFFICE

STATISTICAL REPORTS

003-020-00169-6 Fisheries of the United States, 1997
...\$16.00

003-020-00000-0 Fisheries of the United States, 1998
...NA

003-009-00635-0 United States Industrial Outlook
1994: Business Forecasts for 350
Industries . . . \$48.00

003-009-00650-3 United States Industrial Outlook
1995: Business Forecasts for 350
Industries . . . \$19.00

003-009-00650-3 U.S. Global Outlook (Name change)
1995: Business Forecasts for 350
Industries...\$20.00

MISCELLANEOUS REPORTS

003-009-00618-0 United States Industrial Outlook
1993: Business Forecasts for 350
Industries . . . \$37.00

S/N 703-023-
00000-2 Fishery Bulletin (Quarterly): Publishes
(FB) 2D Original Research Papers, etc.
\$32.00 a year

*For information or to purchase publications listed above
(Advance Payment Required), call or write:*

**Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20202
PHONE: 202-512-1800 / FAX: 512-2250**

PUBLICATIONS

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

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/ST21), 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 Fisheries 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 and Economics Division (F/ST1)
1315 East-West Highway - Station 12340
Silver Spring, MD 20910
Telephone: 301-713-2328

The bulletins shown below cover freezings and holdings prior to 1997 and holdings only for 1997 and the U.S. foreign trade in fishery products. If you wish a copy of the following publications, check the designated space () and return to the Office indicated above. The following are available annually:

- () FF - Frozen Fishery Products (Annual)
- () FT - Imports and Exports of Fishery Products (Annual)

OTHER PUBLICATIONS:

All publications listed below may be obtained from NTIS (address and phone number listed on page 116), the originating office (code follows in parentheses), or the appropriate homepage. Copies are available only as long as supply lasts.

() A Guide to Tunas of the Western Atlantic Ocean, NMFS, 1997. 18 p. (SF)

() Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1998. (F/ST)

() Our Living Oceans - Report on The Economic Status of U.S. Fisheries, 1996. (F/ST)

() Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1995 Executive Summary. (F/ST)

() Protecting and Restoring Essential Fish Habitat. (F/HC)

() Report on Apportionments of Membership on the Regional Fishery Management Council (RFMCs) in 1997. (F/SF)

() The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Grants (F/SF)

() The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Grants - Annotated Bibliography (F/SF)

() USDC Approved List of Fish Establishments and Products -- Semi-Annual Report. (Documentation Approval and Supply Service, Pascagoula, MS., Phone: 228-762-1892)

Atlantic Striped Bass Research Study: Socio-economic Benefits of the Striped Bass Resource. Report to Congress. National Marine Fisheries Service and U.S. Fish and Wildlife Service, 1998. Silver Spring, Maryland. 15 p. (Fx2)

Protecting Marine Mammals: Look from a Distance... but Don't Touch, Feed or Harm in the Wild. Prepared by the Texas Sea Grant Program for the Office of Protected Resources, NMFS, 1992. 6 p. (F/PR)

Recovery Plan for U.S. Pacific Population of the East Pacific Green Turtle (*Chelonia mydas*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR)

Recovery Plan for U.S. Pacific Population of the Green Turtle (*Chelonia mydas*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR)

PUBLICATIONS

Recovery Plan for U.S. Pacific Population of Hawksbill Turtle (*Eretmochelys imbricata*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD (F/PR)

Recovery Plan for U.S. Pacific Leatherback Turtle (*Dermochelys coriacea*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD (F/PR)

Recovery Plan for U.S. Pacific Population of the Loggerhead Turtle (*Chelonia caretta*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR)

Recovery Plan for the Olive Ridley Turtle (*Lepidochelys olivacea*). National Marine Fisheries Service and the U.S. Fish and Wildlife Service, 1998. Silver Spring, MD (F/PR)

Report to Congress on Status of Fisheries of the United States. National Marine Fisheries Service. October 1998. (SFA homepage)

COMMERCIAL FISHERIES:

Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products. The following reports are available through NTIS.

| <u>Year</u> | <u>Accession No.</u> |
|-------------|----------------------|
| 1966 | COM-75-10662 |
| 1967 | COM-75-10663 |
| 1968 | COM-75-10664 |
| 1969 | COM-75-10665 |
| 1970 | COM-71-50081 |
| 1971 | COM-75-10666 |
| 1972 | COM-73-50644 |
| 1973 | COM-74-50546 |
| 1974 | COM-75-10862 |
| 1975 | PB-253966 |
| 1976 | PB-268662 |
| 1977 | PB-282741 |
| 1978 | PB-297083 |
| 1979 | PB-80-201593 |
| 1980 | PB-81-241648 |
| 1981 | PB-82-215542 |
| 1982 | PB-83-216473 |
| 1983 | PB-84-195148 |
| 1984 | PB-86-144953 |
| 1985 | PB-87-143145 |
| 1986 | PB-88-164132 |
| 1987 | PB-88-215173 |
| 1988 | PB-89-216485 |

| <u>Year</u> | <u>Accession No.</u> |
|-------------|----------------------|
| 1989 | PB-91-129-320 |
| 1990 | PB-92-174523/AS |
| 1991 | PB-93-204536/AS |
| 1992 | PB-94-156387 |
| 1993 | PB-95-219192 |

Fisheries 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*.

| <u>Year</u> | <u>Accession No.</u> |
|-------------|----------------------|
| 1939 | COM-75-11265 |
| 1940 | COM-75-11266 |
| 1941 | COM-75-11267 |
| 1942 | COM-75-11268 |
| 1943 | COM-75-11269 |
| 1944 | COM-75-11270 |
| 1945 | COM-75-11271 |
| 1946 | COM-75-11272 |
| 1947 | COM-75-11273 |
| 1948 | COM-75-11274 |
| 1949 | COM-75-11275 |
| 1950 | COM-75-11056 |
| 1951 | COM-75-11053 |
| 1952 | COM-75-11054 |
| 1953 | COM-75-11055 |
| 1954 | COM-75-11057 |
| 1955 | COM-75-11058 |
| 1956 | COM-75-11059 |
| 1957 | COM-75-11060 |
| 1958 | COM-75-11061 |
| 1959 | COM-75-11062 |
| 1960 | COM-75-11063 |
| 1961 | COM-75-11064 |
| 1962 | COM-75-11065 |
| 1963 | COM-75-11066 |
| 1964 | COM-75-11067 |
| 1965 | COM-75-11068 |
| 1966 | PB-246429 |
| 1967 | PB-246430 |
| 1968 | COM-72-50249 |
| 1969 | COM-75-10887 |
| 1970 | COM-75-10643 |
| 1971 | COM-74-51227 |
| 1972 | COM-75-11430 |
| 1973 | PB-262058 |
| 1974 | PB-277796 |
| 1975 | PB-300625 |
| 1976 | PB-81-163438 |
| 1977 | PB-84-192038 |

PUBLICATIONS

HISTORICAL REPORTS:

Historical Catch Statistics is a series of publications reporting catch of certain species in the United States for historical purposes. The following reports are available through NTIS:

Atlantic and Gulf Coast States, 1879 - 1989. Current Fisheries Statistics No. 9010 - Historical Series Nos. 5-9 Revised. Report covers total landings for major species, by state and by region. (NTIS No. PB-93-174266)

Atlantic and Gulf Coast States, 1950 - 1991. Current Fisheries Statistics No. 9210 - Historical Series No. 10-Revised. Report covers landings and value of major species, by Region. (NTIS No. PB-93-174274)

The NMFS-Specific Plan to Meet the Goals and Objectives of the Recreational Fishery Resources Conservation Plan. National Marine Fisheries Service. 8p. 1997. (Fx2)

Recreational fishery Resources Conservation Plan. National Marine Fisheries Service. 16p. 1996. (Fx2)

MARINE RECREATIONAL FISHERY STATISTICS SURVEY:

Atlantic and Gulf Coasts:

| <u>Year</u> | <u>Accession No.</u> |
|---------------------|----------------------|
| 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 |
| 1987-1989 | PB-92-174820 |
| 1990-1991 | (F/ST1) |

Pacific Coast:

| <u>Year</u> | <u>Accession No.</u> |
|-------------|----------------------|
| 1981-1982 | PB-89-102925/AS |
| 1983-1984 | PB-89-102933/AS |
| 1985 | PB-89-102941/AS |
| 1986 | PB-89-102958/AS |
| 1987-1989 | (F/ST1) |

IMPORTS AND EXPORTS OF FISHERY PRODUCTS

Annual Summary:

| <u>Year</u> | <u>Accession No.</u> |
|-------------|----------------------|
| 1982 | PB-92-218635 |
| 1983 | PB-92-218643 |
| 1984 | PB-92-214972 |
| 1985 | PB-92-222280 |
| 1986 | PB-92-228196 |
| 1987 | PB-92-228055 |
| 1988 | PB-92-222272 |
| 1989 | PB-92-222264 |
| 1990 | PB-92-222256 |
| 1991 | PB-92-221803 |
| 1992 | PB-95-219499 |
| 1993 | PB-95-219481 |
| 1994 | PB-95-219507 |

PROCESSED FISHERY PRODUCTS

Annual Summary:

| <u>Year</u> | <u>Accession No.</u> |
|-------------|----------------------|
| 1979 | PB-89-215248/AS |
| 1980 | PB-89-215255/AS |
| 1981 | PB-89-215263/AS |
| 1982 | PB-89-215289/AS |
| 1883 | PB-89-215271/AS |
| 1984 | PB-89-215297/AS |
| 1985 | PB-89-215305/AS |
| 1986 | PB-89-215313/AS |
| 1987 | PB-92-172956 |
| 1988 | PB-92-204528/AS |

MARINE RECREATIONAL FISHING:

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

Accomplishment Report under the Recreational Fishery Resources Conservation Plan. National Marine Fisheries Service. 16p. 1996 (Fx2)

Biennial Report to the President of the United States - Federal Agency Implementation of Executive Order 12962 - Recreational Fisheries. National Recreational Fisheries Coordination Council. 12p. 1998 (Fx2)

PUBLICATIONS

STATE LANDINGS:

Maine: 1946-76, PB-271-296; 1977-79, PB-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.

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: 1956-76, PB-289814; 1977-79, 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 Landings: 1956-76, PB-80-124696; 1978-79, PB-82-156183.

Gulf Coast Shrimp Data: 1958-76, PB-80-126899; 1978-79, PB-82-170390.

INTERNATIONAL REPORTS:

The Division of International Science and Technology, NMFS, prepares assessments of major fisheries to support priority NMFS programs. These reports may be of interest to the wider fishery community as they include biological, commercial, and technical information of potential use to academicians, industry, and environmentalists.

Swordfish:

In 1997 work was completed on a six-volume study, culminating a two-year research project to compile and analyze information on every key swordfish catching nation in the world. *World Swordfish Fisheries*, is the most comprehensive documentation of this fishery ever produced. Each volume of the study contains information on catch, fishing grounds, fishing fleets, gear and methods, markets, trade, bycatch, research, international relations, and other facets of the fishery. The books are carefully documented and have extensive statistical appendices, graphics, and photographic images to help explain the fishery and illustrate key trends. Work on the swordfish fisheries of the Atlantic States of Latin America is ongoing with major reports scheduled for release in 1999.

World Swordfish Fisheries: An Analysis of Swordfish Fisheries, Market Trends, and Trade Patterns, Past-Present-Future. Complete six-volume set. (NTIS No. PB-98-123414/GBA).

Volume I: Executive Overview. Summary of World Fisheries for Swordfish and Overview of Global and Regional Trends. 53 p. (NTIS No. PB-98-123425/GBA).

Volume II: Africa and the Middle East. Examination of Fisheries and Overview of Regional Trends in Africa and in Select Middle Eastern countries. 235 p. (NTIS No. PB-98-123433/GBA).

Volume III: Asia. Summary of Asian Fisheries and Overview of Regional Trends. Special Coverage of Japan, Korea, and Taiwan. 144 p. (NTIS No. PB-98-123441/GBA).

Volume IV: Latin America. Summary of Swordfish Fisheries, along the Pacific Coast of South America. Both volumes 843 p. Further individual country reports are planned for 1998.

Part A., Section 1, Segment A. Covers Fisheries of Colombia, Ecuador, and Peru (428 p.) (NTIS No. PB-98-123458/GBA).

Segment B. Provides in-depth Information about Chile (415 p.) (NTIS No. PB-98-123466/GBA).

Volume V: North America. Overview of Canadian and U.S. Fisheries for Swordfish. 136 p. (NTIS No. PB-98-123474/GBA).

Volume VI: Western Europe. Examination of European fisheries with special emphasis on the European Union member states (especially Spain, Italy, Greece and France). Non-EU countries are also considered. 324 p. (NTIS No. PB-98-123482/GBA).

PUBLICATIONS

World Fleet:

The Office of International Affairs, NMFS, prepared a six-volume study which analyzed trends in the world's distant-water fishing fleets. The subjects covered included catch, fishing areas, vessel construction and imports, flag-of-convenience registration, international agreements, and joint ventures.

World fishing Fleets: An Analysis of Distant-water Fleet Operations. Complete six-volume set. (NTIS No. PB-94-140811/GBA).

Volume I: Executive Summary. Overview of world distant-water fishing fleets and summary of regional trends. 54 p. (NTIS No. PB-94-140829/GBA).

Volume II: Africa. Compilation of information by U.S. Embassies on fleet operations in selected African countries. 51 p. (NTIS No. PB-94-140837/GBA).

Volume III: Asia. Overview of Asian fleets and individual studies of China, Japan, Republic of Korea, and Taiwan fleets. 144 p. (NTIS No. PB-94-140845/GBA).

Volume IV: Latin America. Overview of Caribbean, Central America, South America, and individual reports on the Latin American fleets engaged in distant-water fisheries. 513 p. (NTIS No. PB-94-140852/GBA).

Volume V: Baltic States, Commonwealth of Independent States, and Eastern Europe. Overview of each of these three blocs and 10 individual country studies including Russia, Poland, and Ukraine. 286 p. (NTIS No. PB-94-140860/GBA).

Volume VI: Western Europe and Canada. Overview sections for Europe Community and non-EC countries and individual country studies for all West European fishing nations and Canada. 362 p. (NTIS No. PB-94-140878/GBA).

World Shrimp and Salmon Culture Study:

A detailed overview of the salmon and shrimp culture industries in each of the primary producing countries of the world. The reports include information on species, areas developed, companies and farms, hatcheries, culture methods, research, harvests, exports, investments, environmental factors, trade, feed, and other subjects. The study was completed in 1992.

World Salmon Culture. This book provides detailed information about farmed salmon aquaculture around the world. A historical background is provided for all key farmed salmon producing nations. The work is carefully illustrated with graphs and statistical tables. An excellent resource for individuals seeking background information on salmon culture. 323 p. (NTIS No. PB-93-134617/GBA).

World Shrimp Culture. Complete work is available in two volumes (Volume II. has 3 parts). Readers may also purchase individual parts separately. 1,152 p. (NTIS No. PB-93-134625/GBA).

Volume I: Asia, Africa, Europe, the Middle East, and North America. Overview sections for Asia with reporting on shrimp culture in other countries.. 362 p. (NTIS No. PB-94-140878/GBA).

Volume II. Latin America

Part I: This book includes a detailed Latin American overview and individual reports on the shrimp culture industry in the Caribbean island countries. 326 p. (NTIS No. PB93-134641/GBA).

Part II: This book includes a brief summary of the shrimp culture industry in Central America as well as individual reports on Mexico and each Central American country. 356 p. (NTIS No. PB93-134658/GBA).

Part III: This book includes a brief regional summary of shrimp culture in South America and individual reports on the shrimp culture industry of each South American country. 329 p. (NTIS No. PB93-134666/GBA).

NORTHEAST REGION:

Northwest Atlantic Groundfish: Perspectives on a Fishery Collapse. Boreman, J., B.S. Nakashima, J.A. Wilson, and R.L. Kendall, eds. 1997. American Fisheries Society, Bethesda, MD. 242p. (F/NEC).

Status of Fishery Resources off the Northeastern United States for 1998. S.H. Clark, ed. 1998. (NOAA-TM-NMFS-NE-115). 149 p.. (F/NEC).

The History, Present Condition, and Future of the Molluscan Fisheries of North and Central America and Europe, 3 vols. MacKenzie, C.L., Jr., V.G. Burrell, Jr., and W.L. Hobart, eds. 1997. (NOAA-Tech. Rep-NMFS-NE-128) (F/NEC).

U.S. Atlantic Marine Mammal Stock Assessments -- 1998. Waring, G.T., D.L. Palka, P.J. Clapham, S. Swartz, M.C. Rossman, T.V.N. Cole, K.D. Bisack, and L.J. Hansen, 1999. (NOAA-TM-NMFS-NE-116) 182p. (F/NEC).

SOUTHEAST REGION:

Habitat Protection Accomplishments of the National Marine Fisheries Service - Fiscal Year 1996. Habitat Conservation Division, Southeast Regional Office. 1996. 88 p.+Appen. (F/SER).

PUBLICATIONS

SOUTHWEST REGION:

Description of Pelagic Larval and Juvenile Grass Rockfish, *Sebastes rastrelliger* (Family Scorpaenidae) with an Examination of Age and Growth. Laidig, T. E., and K. M. Sakuma. 1998. Fish. Bull., U.S. 96:788–796. (F/SWC)

Dolphin Prey Abundance Determined from Acoustic Backscatter Data in Eastern Pacific Surveys. Fiedler, P. C., J. Barlow, and T. Gerrodette. 1998. Fish. Bull., U.S. 96:237–247. (F/SWC)

Dried Dolphin Blood on Fishery Observer Records Provides DNA for Genetic Analyses. Eggert, L. S., C. A. Lux, G. M. O’Corry-Crowe, and A. E. Dizon. 1998. Mar. Mamm. Sci. 14:136–143. (F/SWC)

Effects of Sea-Ice Extent and Krill or Salp Dominance on the Antarctic Food Web. Loeb, V., V. Siegel, O. Holm-Hansen, R. Hewitt, W. Fraser, W. Trivelpiece, and S. Trivelpiece. 1997. Nature 387(6636):897–900. (F/SWC)

Estimated Tuna Discard from Dolphin, School, and Log Sets in the Eastern Tropical Pacific Ocean, 1989–1992. Edwards, E. F., and P. C. Perkins. 1998. Fish. Bull., U.S. 96:210–222. (F/SWC)

Estimation of Sea Turtle Take and Mortality in the Hawaii-based Longline Fishery, 1994–96. Skillman, R. A., and P. Kleiber. 1998. (NOAA-TM-NMFS-SWFSC-257). 54 p. (F/SWC)

How Might Recruitment Research on Coral-Reef Fishes Help Manage Tropical Reef Fisheries? DeMartini, E. E. 1998. Aust. J. Ecol. 23:305–310. (F/SWC)

Individual Transferable Quotas in Multispecies Fisheries. Squires, D., H. Campbell, S. Cunningham, C. Dewees, R. Q. Grafton, S. F. Herrick Jr., J. Kirkley, S. Pascoe, K. Salvanes, B. Shallard, B. Turris, and N. Vestergaard. 1998. Mar. Pol. 22(2):135–159. (F/SWC)

Intrinsic Rebound Potentials of 26 Species of Pacific Sharks. Smith, S. E., D. W. Au, and C. Show. 1998. Mar. Freshwater Res. 49:663–678. (F/SWC)

Investigation of the Potential Influence of Fishery-Induced Stress on Dolphins in the Eastern Tropical Pacific Ocean: Research Planning. Curry, B. E., and E. F. Edwards. 1998. (NOAA-TM-NMFS-SWFSC-254). 59 p. (ITS No. PB98-160948). (F/SWC)

Issues and Options in Designing and Implementing Limited Access Programs in Marine Fisheries. Pooley, S. G., and the NMFS Limited Access Working Group. 1998. (NOAA-TM-NMFS-SWFSC-252). (F/SWC)

Killer Whales of California and Western Mexico: A Catalog of Photo-Identified Individuals. Black, N. A., A. Shulman-Janiger, R. L. Ternullo, and M. Guerrero-Ruiz. 1997. (NOAA-TM-NMFS-SWFSC-247). 289 p. (ITS No. PB98-160971). (F/SWC)

Long-Range Tuna School Detection Sonar System Design Specification, December 1997. Denny, Gerald F., Kenneth E. deVilleroy, Patrick K. Simpson. Administrative Report. SWR-98-01. 38p. (F/SWR)

Marine Harvest Refugia for West Coast Rockfish: A Workshop. Yoklavich, M. M. (ed.). 1998. (NOAA-TM-NMFS-SWFSC-255). 159 p. (Electronic publication: http://www.pfeg.noaa.gov/whats_new/refugia_index.html). (F/SWC)

A New Geographic Form of the Spinner Dolphin, *Stenella Longirostris*, Detected with Aerial Photography. Perryman, W. L., and R. L. Westlake. 1998. Mar. Mamm. Sci. 14:38–50. (F/SWC)

Recommended Recovery Actions for the Hawaiian Monk Seal Population at Midway Island. Gilmartin, W. G., and G. A. Antonelis. 1998. (NOAA-TM-NMFS-SWFSC-253). (F/SWC).

Report of the Fifteenth North Pacific Albacore Workshop, Nanaimo, B.C., Canada, December 3-5, 1997. Shaw, W., and N. Bartoo (eds.). 1998. Canadian Department of Fisheries and Oceans. 38 p. (F/SWC)

Seasonal Patterns in the Abundance and Distribution of California Cetaceans, 1991–1992. Forney, K.A., and J. Barlow. 1998. Mar. Mamm. Sci. 14:460–489. (F/SWC)

Shark Bycatch in the Japanese High Seas Squid Driftnet Fishery in the North Pacific Ocean. McKinnell, S., and M. P. Seki. 1998. Fish. Res. 39:127–138. (F/SWC)

Shark Fisheries, Trade, and Market of Japan. Sonu, Sunee C., 1998. 70 p. (NOAA-TM-NMFS-SWR-033) (F/SWR)

The State of the California Current, 1997–1998: Transition to El Niño Conditions. Lynn, R. J., et al. 1998. Calif. Coop. Oceanic Fish. Invest. Rep. 39:25–49. (F/SWC)

Three Closely Related Herpes viruses are Associated with Fibropapillomatosis in Marine Turtles. Quakenbush, S. L., T. M. Work, G. H. Balazs, R. N. Casey, J. Rovnak, A. Chaves, L. du Toit, J. D. Baines, C. R. Parrish, P. R. Bowser, and J. W. Casey. 1998. Virology 246:392–399. (F/SWC)

U. S. Pacific Marine Mammal Stock Assessments: 1998. Barlow, J. P., K. A. Forney, and D. P. DeMaster. 1998. (NOAA-TM-NMFS-SWFSC-258). 41 p. (F/SWC)

PUBLICATIONS

NORTHWEST REGION:

Status Review of Pink Salmon from Washington, Oregon, and California. Hard, J.J., R.G. Kope, W.S. Grant, F.W. Waknitz, L.T. Parker, and R.S. Waples. 1996. (NOAA-TM-NMFS-NWFSC-25) 131 p. (NTIS No. PB96-162607)

Status Review of West Coast Steelhead from Washington, Idaho, Oregon, and California. Busby, P.J., T.C. Wainwright, G.J. Bryant, L. Lierheimer, R.S. Waples, F.W. Waknitz, and I.V. Lagomarsino. 1996. (NOAA-TM-NMFS-NWFSC-27) 261 p. (NTIS No. PB96-210166).

ALASKA REGION:

Aerial and Ship-based Surveys of Steller Sea Lions (*Eumetopias jubatus*) in Southeast Alaska, the Gulf of Alaska, and Aleutian Islands during June and July 1994. Strick, J. M., L. W. Fritz, and J. P. Lewis. 1997. (NOAA-TM-AFSC-71). 55 p. (NTIS No. PB97-144026).

Alaska Marine Mammal Stock Assessments, 1996. Hill, P. S., D. P. DeMaster, and R. J. Small. 1997. (NOAA-TM-AFSC-78). 150 p. (NTIS No. PB97-203277).

Assessment of the Status of Harbor Porpoise (*Phocoena phocoena*) in Oregon and Washington waters. Osmek, S., J. Calambokidis, J. Laake, P. Gearin, R. DeLong, J. Scordino, S. Jeffries, and R. Brown. 1997. (NOAA-TM-AFSC-76). 46 p. (NTIS No. PB97-198436).

Data report: National Marine Fisheries Service Longline Surveys, 1991-96. Rutecki, T. L., M. F. Sigler, and H. H. Zenger Jr. 1997. (NOAA-TM-AFSC-83). 64 p. (NTIS No. PB98-108822).

Data Report: 1996 Gulf of Alaska Bottom Trawl Survey. Martin, M. H. 1997. (NOAA-TM-AFSC-82) 235 p. (NTIS No. PB98-103930).

Diversity and Abundance of Neustonic Zooplankton in the North Pacific Subarctic Frontal Zone. Ebberts, B. D., and B. L. Wing. 1997. (NOAA-TM-AFSC-70). 34 p. (NTIS No. PB97-138218).

Echo Integration-Trawl Survey of Pacific Whiting, *Merluccius productus*, off the West Coasts of the United States and Canada during July-September 1995. Wilson, C. D., and M. A. Guttormsen. 1997. (NOAA-TM-AFSC-74). 70 p. (NTIS No. PB97-174387).

Economic Status of the Groundfish Fisheries off Alaska, 1995. Kinoshita, R. K., A. Grieg, D. Colpo, and J.M. Terry. 1997. (NOAA-TM-AFSC-72). 91 p. (NTIS No. PB97-161269).

Field Studies of Steller Sea Lions (*Eumetopias jubatus*) at Marmot Island, Alaska, 1979 through 1994. Chumbley, K., J. Sease, M. Strick, and R. Towell. 1997. (NOAA-TM-AFSC-77). 99 p. (NTIS No. PB97-203376).

Ichthyoplankton in the Eastern Gulf of Alaska, May 1990. Wing, B. L., C. W. Derrah, and V. M. O'Connell. 1997. (NOAA-TM-AFSC-75). 42 p. (NTIS No. PB97-174379).

The 1995 Pacific West Coast upper Continental Slope Trawl Survey of Groundfish Resources off Southern Oregon and Northern California: Estimates of distribution Abundance, and Length Composition. Lauth, R. R. 1997. (NOAA-TM-AFSC-80). 110 p. (NTIS No. PB97-208920).

The 1996 Pacific West Coast Upper Continental Slope Trawl Survey of Groundfish Resources off Washington and Oregon: Estimates of Distribution, Abundance, and Length Composition. Lauth, R. R. 1997. (NOAA-TM-AFSC-81). 156 p. (NTIS No. PB97-208912).

Results of Trawl Surveys of Groundfish Resources of the West Coast Upper Continental Slope from 1989 to 1993. Lauth, R. R., M. E. Wilkins, and P. A. Raymore Jr. 1997. (NOAA-TM-AFSC-79). 342 p. (NTIS No. PB97-208904).

Suitability of Dry Bay, Southeastern Alaska, as Rearing Habitat for Juvenile Salmon. Celewycz, A. G., and A. C. Wertheimer. 1997. (NOAA-TM-AFSC-73). 19 p. (NTIS No. PB97-161343).

Oregon, Washington, and Alaska Exports of Edible Fishery Products, 1994. Kinoshita, R. K., and J. M. Terry. 1996. (NOAA-TM-AFSC-63). 49 p. (NTIS No. PB96-183553).

Status of Pacific Salmon and Steelhead Escapements in Southern Alaska. Baker, T. T., A. C. Wertheimer, R. D. Burkett, R. Dunlap, D. M. Eggers, E. I. Fritts, A. J. Gharrett, R. A. Holmes, and R. L. Wilmot. 1996. *Fisheries* 21(10): 6-18. (F/AKC).

The Threatened Status of Steller Sea Lions, *Eumetopias jubatus*, Under the Endangered Species Act: Effects on Alaska Groundfish Fisheries Management. Fritz, L.W., R. C. Ferrero, and R.J. Berg. 1995. *Mar. Fish. Rev.* 57(2):14-27. (F/AKC).

=====

To purchase the preceding reports listed with NTIS, call or write:

NTIS -- ATTN: Order Desk
5285 Port Royal Road, Springfield, VA 22161
PHONE: 703-487-4650 / FAX: 321-8547

Commercial Fisheries -

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Print Edit

Address <http://www.st.nmfs.gov/st1/commercial/> Links

COMMERCIAL FISHERIES

NMFS / Office of Science & Technology / Fisheries Statistics & Economics Division

| | | | | | |
|-----------------------------|----------------------|---------------------|---------------------------|------------------------|---------------------|
| Statistics & Economics Home | Commercial Fisheries | Fishery Market News | Foreign Trade Information | Recreational Fisheries | Fisheries Economics |
|-----------------------------|----------------------|---------------------|---------------------------|------------------------|---------------------|

Commercial Fishery Landings

- [Monthly Landings](#)
- [Annual Landings](#)
- [Landings by Gear](#)
- [Landings Background](#)
- [Data Caveats](#)

Other Specialized Programs



- [Vessel Documentation Data retrieved using craft registration no.](#)
- [Vessel Documentation Data retrieved using craft name](#)
- [Annual Landings with Group subtotals](#)
- [Preliminary Annual Landings by Distance from Shore](#)

Summary

The Fisheries Statistics & Economics Division of the National Marine Fisheries Service (NMFS) has commercial landings data bases and automated data summary programs that anyone can use to rapidly and easily summarize U.S. fisheries landings. These data and summary programs are currently applicable to fisheries conducted in Atlantic and Gulf of Mexico waters and in the Pacific off of the states of Washington, Oregon, and California; landings for Alaska and Hawaii will be made available at a later date. You can summarize the pounds and dollar value of commercial landings by your choice of years, months, states and species for the years 1990-1997. The volume and value of 1950-1997 landings can be summarized by years, states and species or by years, states, species and fishing gears.

You select variable inputs from pull down menus and then click on the "Submit" button to run the summary programs. The "broader" the data request (e.g., the more states or years chosen) the slower the program will run. Simple data requests run in a few seconds while complex queries may take a minute. Please read the caveats associated with these data before using them in any research, report or commercial endeavor. If you have questions about the data or are aware of any errors, write us at our [e-mail address](#)

We will make other fishery landings, vessel, fishing gear and other information available to users as time permits.

[Fisheries Statistics & Economics Home Page](#)
[Office of Science & Technology Home Page](#)

SERVICES

NATIONAL MARINE FISHERIES SERVICE FISHERIES MARKET NEWS

HOME PAGES

The National Marine Fisheries Service provides information on programs and data available to the public and fishing industry via home page. Please use the following address for **NMFS'** home page - <http://www.nmfs.gov/> through a personal computer. If you wish to access individual office home pages the addresses and a brief description follows:

Fisheries Statistics - <http://www.st.nmfs.gov/st1/>. Descriptions of commercial and recreational fisheries statistics data collection programs. Access to commercial monthly landings data bases, Marine Recreational Fisheries Statistics Survey (MRFSS) data, cold storage, Market News Reports, processed products data, and trade data base.

Inspection Program- <http://seafood.nmfs.gov/>. Provides information on the National Voluntary Seafood Inspection Program, list of approved fish establishments and products, fees and charges, and policies for advertising services and marks.

Saltonstall-Kennedy Grant Program - <http://www.nmfs.gov/sfweb/skhome.html>. Description of the Saltonstall-Kennedy (S-K) Program, the most recent solicitation for proposals, application forms and instructions, FAQs, and Regional contacts for the S-K Program, as well as the latest update to the S-K Annotated Bibliography of completed projects.

Protected Resources - http://nmfs.gov/prot_res/prot_res.html. Contains recovery efforts for species considered endangered or threatened; depleted species of marine mammals; and a comprehensive list of other Internet resources pertaining to protection programs and other issues. Information on Endangered Species Act and Marine Mammal Protection Act.

Northeast Region - <http://www.nero.nmfs.gov/doc/nero.html>. Describes the mission and responsibilities of the Regional Office Staffs and Divisions. Provides information on fisheries regulations, quota reports for summer flounder, and links to other NOAA sites.

Northeast Fisheries Scientific Center - <http://www.nefsc.nmfs.gov>. Provides current and historical northeast fisheries information and data about research facilities, vessels, programs, publications, management, laws and regulations, and answers to frequently asked questions on fish and fisheries research. Features in-depth information on northeast stock status and realtime, at-sea, display of research vessel activities, measurements, and observations.

Southeast Region - <http://caldera.sero.nmfs.gov/>. Provides information on regional Federal activities including: fisheries regulations, vessel and dealer permits, fishery management plan implementation/quotas, marine mammals and endangered species management and protection, habitat protection and restoration activities, and federal aid programs for grants and cooperative agreements.

SERVICES

NATIONAL MARINE FISHERIES SERVICE FISHERIES MARKET NEWS

HOME PAGES

Southeast Fisheries Science Center - <http://www.sefsc.noaa.gov/>. Describes the mission of the Center in support of NMFS including laboratories dedicated to research covering North Carolina--Texas and the Caribbean. Provides research data to support the programs which include large marine ecosystem, collecting and reporting statistical/economic data, fishery resource conservation, protection of marine mammals and endangered species, and impact analysis / environmental assessments.

Alaska Region - <http://www.fak.noaa.gov/>. Provides information on in season state of groundfish, catch statistics, new releases, regulations, maps, and tables. Sablefish and halibut quota program, catch data and appeal cases. Information on Marine Mammal Authorization Program.

Alaska Fisheries Science Center - <http://www.afsc.noaa.gov/>. Describes the mission of the Center and the organization and purpose of its laboratories, divisions, and programs dedicated to Federal fisheries research in the coastal oceans off Alaska and the West Coast of the United States and marine mammal research in the Antarctic, Arctic, Alaska and California current ecosystems.

Northwest Fisheries Science Center - <http://research.nwfsc.noaa.gov/nwfsc-homepage.html>. Describes Center research, including status and recovery of endangered salmon and new hatchery-rearing techniques; rapid-response analyses of chemical pollution and harmful algal blooms in fishery grounds nationwide; assessing the west coast groundfish fishery; and developing new bycatch utilization technologies. News topics, current publications, library resources, and the Center's state-of-the-art water-recycling fish culture facility are also featured.

Southwest Region - <http://swr.ucsd.edu/>. Described the mission and responsibilities of the regional office and announcements of Federal Register Notices on seasons, trip limits, and quotas. Provides information on fisheries statistics, trade data, canned tuna updates and status of tuna import quotas, and catch reports for various California fisheries. Japanese market reports are available on sablefish, shrimp, landings and wholesale prices, etc., and links to other pertinent sites of interest to fishery and seafood industries.

Southwest Fisheries Science Center - <http://swfsc.ucsd.edu/>. Descriptions of programs, laboratories, geographic scope, center organization, research vessels, upper level scientific/management staffs, publications, newsletters (tuna and billfish), and mission of the Center. Information on types of research being conducted on fishes, marine mammal, sea turtles, habitat and marine ecosystems. Also, updated NOAA's Resource Guide for Teachers of Marine Science is available for download.

=====

NOAA Public Affairs - <http://www.publicaffairs.noaa.gov/>. All NOAA and NMFS related Press Releases and links to other NOAA material available to the public. If you would like these releases through electronic mail rather than fax, send e-mail to jslaff@hq.noaa.gov.

SERVICES

NATIONAL MARINE FISHERIES SERVICE FISHERIES MARKET NEWS

FAX-ON-DEMAND SYSTEM

The National Marine Fisheries Service (NMFS) has collected market information at principal U.S. ports for 60 years. In an effort to provide a continuing high level of service to the seafood community this information is now available through the NMFS Fax-on-Demand Service. Up-to-date information on various landings data, wholesale values, foreign trade, cold storage holdings, trade leads, and Japanese market are now just a phone call away. The cost to you is a phone call, the service is free. Please feel free in helping NMFS spread the word about the Fax-on-Demand Service.

INSTRUCTIONS

1. You **must** place your call from a fax machine. At any fax machine, pick up handset (or use speaker phone capability, if so equipped) and using the fax machine's numeric keypad, dial the NMFS Fax Management System phone number:

301 - 713 - 1415

2. A human voice will greet you and welcome you to the NMFS Fax Management System and will immediately ask you to enter your **Fax Mailbox Number, followed by the pound (#) sign.** Respond by entering the mailbox number for Fisheries Market News:

200 #

3. After you are welcomed to the Fisheries Market News Fax Service you will be guided by a series of human voice prompts. First you are given the opportunity to **enter a document number (like those found on the document listing), followed by the pound (#) sign:**

**Examples: For daily New York Fulton Market Fresh Prices, enter 21#
For most recent Cold Storage Report enter 71#**

For a list of available documents (Menu of Document Choices), enter 1#

4. Follow remaining voice prompts for confirmation of selection(s) and entering additional document numbers. After you have selected the documents you want, you will be prompted to press the pound (#) key to proceed.
5. You will now be asked to press the **START or SEND** key on fax machine. Wait until you hear the typical fax tone indicating a good connection and hang up the handset.

Please call **(301-713-2328)** for further information or if you have any questions or problems.

SERVICES

NATIONAL MARINE FISHERIES SERVICE FISHERIES MARKET NEWS

FAX-ON-DEMAND MENU CHOICES -- MAILBOX #200

FAX: (301) 713-1415

| DOCUMENT NUMBER | REPORT | UPDATE SCHEDULE |
|-----------------|--|-------------------|
| 1 | Menu Choices | |
| 2* | Commonly Used Abbreviations | |
| 5* | Trade Leads | Friday |
| | NEW YORK: Leo Gaudin (212) 620-3405 | |
| 21* | Fulton Market Fresh Prices | Daily |
| 22* | New York Frozen Prices | Friday |
| | BOSTON: Jack French (617) 223-8018 | |
| 30 | Boston Lobster Prices | Daily (exc.Weds.) |
| 31* | New England Auction | Daily |
| 32* | Boston Frozen Market Prices | Wednesday |
| 33 | New England Auction Summary | Friday |
| 34 | New England Cold Storage | Friday |
| | NEW ORLEANS: Maggie Bourgeois (504) 589-6151 | |
| 41 | Gulf Shrimp Landings by Area and Species | Monday |
| 42 | Ex-Vessel Gulf Fresh Shrimp Prices and Landings | Monday |
| 43 | Gulf Finfish and Shellfish Landings | Monday |
| 44* | Fish Meal and Oil Prices | Thursday |
| 45* | Shrimp Statistics | Monthly |
| | LONG BEACH: Patricia Donley (310) 980-4033 | |
| 52 | San Pedro, CA Market Prices | Friday |
| 53 | Canned Tuna Import Quota Update | Friday |
| | SEATTLE: John Bishop (206) 526-6119 | |
| 61 | Wholesale Canned Salmon Prices (West Coast) | Tuesday |
| 62* | Wholesale Shellfish Prices (West Coast) | Tuesday |
| 63 | Preliminary Oregon Landings | Tuesday |
| 64 | Halibut & Sablefish Total IFQ Landings | Weekly |
| 65 | Groundfish: Gulf of Alaska - Preliminary Catch | Weekly |
| 66 | Groundfish: Bering Sea & Aleutians - Preliminary Catch | Weekly |
| 67 | Oregon Landings & Exvessel Price | Monthly |
| 68 | Washington Landngs & Exvessel Price | Monthly |
| | NMFS HEADQUARTERS: William Uttley (301) 713-2328 | |
| 71* | National Cold Storage | Monthly |
| 72 | West Coast Cold Storage | Monthly |
| 74* | Imports of Shrimp | Monthly |
| 75* | Imports of Frozen Fish Blocks | Monthly |
| 76* | Fish Meal and Oil Production | Quarterly |
| 77* | Purse-Seine Landings of Menhaden | Monthly |
| 78* | Imports of Selected Fishery Products | Monthly |
| 79* | Exports of Selected Fishery Products | Monthly |
| | JAPANESE DATA: Long Beach - Sune C. Sonu (310) 980-4038 | |
| 81 | Japanese Shrimp Imports | Monthly |
| 82 | Japanese Fishery Imports | Monthly |
| 83 | Japanese Fishery Exports | Monthly |
| 84 | Japanese Cold Storage Holdings | Monthly |
| 85 | Tokyo Wholesale Shrimp Prices | Bi-weekly |
| 86 | Tokyo Wholesale Prices | Bi-weekly |
| 87 | Fish Landings and Average Ex-vessel Prices | Monthly |
| 88 | Sales Volume and Average Wholesale Prices | Monthly |

UPDATE SCHEDULES: 3:00 pm ET.

*NOTE:--Accessible via (internet) - <http://www.st.nmfs.gov/st1/>

SERVICES

SEA GRANT EXTENSION SERVICE

The Office of Sea Grant is a major program element of the National Oceanic and Atmospheric Administration. The National Sea Grant College Program is funded jointly by the Federal Government and colleges or universities. Sea Grant's Extension Service offers a broad range of information concerning the Nation's fisheries to recreational and commercial fishermen, fish processors, and others. The following program leaders, listed alphabetically by State, can provide information on Sea Grant activities:

Rick Wallace, Coordinator
Alabama Sea Grant Extension
Auburn University Marine
Extension & Research Center
4170 Commander's Drive
Mobile, AL 36615
(334) 438-5690 FAX: 438-5670

Donald E. Kramer, Extension/MAP Leader
Alaska Sea Grant College Program
2221 East Northern Lights #110
Anchorage, AK 99508
(907) 274-9691 FAX: 277-5242

Christopher M. DeWees, Coordinator
Sea Grant Extension Program
Department of Wildlife and Fisheries
University of California A5 - Davis
Davis, CA 95616
(916) 752-1497 FAX: 752-4154

Judith Doyno Lemus, Extension Leader
Univ. of Southern California Sea Grant Program
Hancock Institute of Marine Studies, Univ. Park
Los Angeles, CA 90089
(213) 740-1965 FAX: 740-5936

Nancy Balcom, Interim Extension Leader
Sea Grant Extension Program
University of Connecticut
1084 Shennecossett Road
Groton, CT 06340
(860) 405-9107 FAX: 485-9109

James Falk, Extension Leader
Delaware Sea Grant College Prog.
Marine Advisory Service
700 Pilottown Road
Lewes, DE 19958
(302) 645-4235 FAX: 645-4213

Marion L. Clarke, Leader
Florida Sea Grant Extension
University of Florida - Bldg. 803
P.O. Box 110405
Gainesville, FL 32611
(352) 392-1837 FAX: 392-5113

Keith Gates, Extension Leader
Georgia Sea Grant College Program
715 Bay Street
Brunswick, GA 31520
(912) 264-7268 FAX: 264-7312

Bruce J. Miller, Assoc. Dir.
Director, Extension / Pacific Programs,
Sea Grant Extension Service, Univ. of HI
1000 Pope Road, MSB 227
Honolulu, HI 96822
(808) 956-8645 FAX: 956-2858

Brian Miller, Extension Leader
Illinois/Indiana Sea Grant Program
Forestry & Natural Resources
Purdue University - Forestry Bldg.
West Lafayette, IN 47907
(912) 264-7268 FAX: 264-7312

Michael Liffman, Assist. Dir.
Louisiana Sea Grant College Program
Louisiana State University
136 Wetland Resources Building
Baton Rouge, LA 70803
(504) 388-6290 FAX: 388-6331

Ron Beard, Extension Leader
Maine Sea Grant College Program
21 Coburn Hall, Univ. Of ME
Orono, ME 04469
(207) 581-1440 FAX: 581-1423

Douglas Lipton, Extension Leader
Maryland Sea Grant College Program
2218B Symons Hall - Univ. of MD
College Park, MD 20742
(301) 405-1280 FAX: 314-9032

Cliff Goudey, Extension Leader
MIT Sea Grant College Program
E38-324 / Kendall Square
292 Main Street
Cambridge, MA 02139
(617) 253-7079 FAX: 258-5730

Dale Leavitt, Extension Leader
WHOI Sea Grant Program
Mail Stop #2, Coastal Research Lab.
Woods Hole Oceanographic Institute
Woods Hole, MA 02543
(508) 289-2997 FAX: 457-2172

John Schwartz, Extension Leader
Michigan Sea Grant College Prog.
Michigan State University
334 Natural Resource Building
East Lansing, MI 48824
(517) 355-9637 FAX: 353-6496

SERVICES

SEA GRANT EXTENSION SERVICE

Jeffery Gunderson, Extension Leader
Minnesota Sea Grant
University of Minnesota - Duluth
208 Washburn Hall
Duluth, MN 55812
(218) 726-8715 FAX: 726-6556

David C. Veal, Extension Leader
Mississippi Sea Grant
Coastal Research/Extension Center
2710 Beach Blvd., Suite 1-E
Biloxi, MS 39531
(601) 338-4710 FAX: 388-1375

Brian E. Doyle, Extension Leader
New Hampshire Sea Grant
University of NH - Kingman Farm
Durham, NH 03824
(603) 749-1565 FAX: 743-3997

Eleanor Bochenek, Extension Leader
New Jersey Sea Grant College Program
Building #22
Fort Hancock, NJ 07732
(732) 872-1300 ext:31 FAX:872-9573

Dale R. Baker, Extension Leader
New York Sea Grant
340 Roberts Hall - Cornell Univ.
Ithaca, NY 14853
(607) 255-2832 FAX: 255-2812

Frank Lichtkoppler, Co-Leader
Ohio Sea Grant Extension
Lake County Extension Office
99 East Erie Street
Painesville, OH 44077
(216) 350-2582 FAX: 350-5928

Frederic L. Snyder, Co-Leader
Ohio Sea Grant Extension
Camp Perry
Building 3, Room 12
Port Clinton, OH 43452
(419) 635-4117 FAX: 292-4364

Eric C. Obert, Coordinator
Pennsylvania Sea Grant Extension Project
Station Road
Erie, PA 16563
(814) 898-6420 FAX: 898-6462

Steve Olson, Extension Leader
Sea Grant - North Carolina State Univ.
105 1911 Building - Box 8605
Raleigh, NC 27695
(919) 515-2454 FAX 515-7095

Jay Rasmussen, Program Leader
Oregon Extension Sea Grant
Hatfield Marine Science Center

2030 S. Marine Science Drive
Newport, OR 97365
(541) 867-0368 FAX: 867-0369

Eric C. Obert, Extension Leader
Pennsylvania Sea Grant College Program
Station Road
Erie, PA 16563
(814) 898-6420 FAX: 898-6462

Ruperto Chaparro, Extension Leader
Sea Grant College Program
University of Puerto Rico
P.O. Box 5000
Mayaguez, PR 00681
(787) 832-8045 FAX: 265-2880

Kathy Castro, Extension Coordinator
Rhode Island Sea Grant Extension
Graduate School of Oceanography
South Ferry Road, Univ. of Rhode Island
Narragansett, RI 02882
(401) 874-6800 FAX: 789-8340

Bob Bacon, Extension Leader
South Carolina Sea Grant
Marine Extension Program
287 Meeting Street
Charleston, SC 29401
(803) 727-2075 FAX: 727-2080

Russell Miget, Acting Extension Coordinator
Texas Sea Grant College Program
6300 Ocean Drive, Suite 280
Corpus Christi, TX 78412
(512) 980-3460 FAX: 980-3465

Lawrence K. Forcier, Coordinator
Vermont Sea Grant Extension Project
University of Vermont
601 Main Street
Burlington, VT 05401
(802) 656-2980 FAX: 656-8642

Wm. D. DuPaul, Extension/MAP Coordinator
Virginia Sea Grant College Program - VIMS
Gloucester Point, VA 23062
(804) 684-7164 FAX: 684-7161

Michael S. Spranger, Extension Leader
Washington Sea Grant HG-30 - WA Univ.
3716 Brooklyn Avenue, N.E.
Seattle, WA 98105
(206) 685-9291 FAX: 685-0380

Allen H. Miller, Extension/MAS Leader
Wisconsin Sea Grant Institute - WS Univ.
201 Goodnight Hall - Madison Campus
1975 Willow Drive
Madison, WI 53706
(608) 262-0644 FAX: 263-0591

**National Sea Grant Depository
(Clearinghouse for all Sea Grant Publications)
Pell Library - University of Rhode Island - Bay Campus
Narragansett, RI 02882
PHONE: 401-874-6114
FAX: 874-6160**

GLOSSARY

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

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

AQUACULTURE. The farming of aquatic organisms in marine, brackish or fresh water. Farming implies private or corporate ownership of the organism and enhancement of production by stocking, feeding, providing protection from predators, or other management measures. Aquaculture production is reported as the weight and value of cultured organisms at their point of final sale.

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

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

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

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

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

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

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

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

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

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

DEFLATED VALUE. The deflated values referred to in this document are calculated with the Gross Domestic Products Implicit Price Deflator. The base year for this index is 1987.

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

EEZ. See U.S. Exclusive Economic Zone.

EL NINO. This anomalous ocean warming of the eastern Equatorial Pacific occurs at time intervals varying from 2-10 years. El Nino conditions result in an accumulation of warm water off South America which reduced the upwelling of nutrient-rich water necessary to support fisheries production. These conditions extended northward to the U.S. Pacific Coast. In addition to affecting the food available for fish, El Nino appears to alter the normal ranges, distributions, and migrations of fish populations.

EUROPEAN UNION. Belgium and Luxembourg, Denmark, Federal Republic of Germany, Greece, France, Ireland, Italy, Netherlands, Portugal, Spain, and United Kingdom. This was formerly known as European Economic Community (EEC).

GLOSSARY

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.

EXPORT WEIGHT. The weight of individual products as exported, i.e., fillets, steaks, whole, breaded, etc. Includes both domestic and foreign re-exports data.

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.

GROUND FISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottom fishes, 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, hake, ocean perch, and pollock; cusk; and haddock.

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 received, 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.

INTERNAL WATER PROCESSING (IWPs). An operation in which a foreign vessel is authorized by the governor of a state to receive and process fish in the internal waters of a state. The Magnuson Act refers to internal waters as all waters within the boundaries of a state except those seaward of the baseline from which the territorial sea is measured.

GLOSSARY

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

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

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

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption.

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.

GLOSSARY

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.

RE-EXPORTS. Re-exports are commodities which have entered the U.S. as imports and are subsequently exported in substantially the same condition as when originally imported.

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.

Federal Inspection Marks for Fishery Products

NATIONAL FISHERY PRODUCTS INSPECTION PROGRAM. The U.S. Department of Commerce (USDC), National Marine Fisheries Service, a part of the National Oceanic and Atmospheric Administration, conducts a voluntary seafood inspection program on a fee-for-service basis. A HACCP-based service is also available. Services provided by the program include vessel and plant sanitation, product inspection and grading, label reviews, product specification reviews, laboratory analyses, training, education and information. Inspection and certification services are available nationwide and in U.S. territories for all interested parties. Consultative services are provided in foreign countries. Inspection and certification services are also provided for imported and exported products. The USDC Seafood Inspection Division also provides HACCP training, plan development, implementation assistance, and verification service to industry (domestic and foreign) for the purpose of demonstrating compliance with FDA's HACCP rule (21 CFR Parts 123 and 1240) regarding "Procedures for the Safe and Sanitary Processing and Importing of Fish and Fishery Products" which was implemented December 18, 1997.

USERS OF INSPECTION SERVICES. The users of the voluntary seafood inspection service include vessel owners, processors, distributors, brokers, retailers, food service operators, exporters, importers, and those who have a financial interest in buying and selling seafood products. The U.S. Department of Agriculture recommends that USDC inspected products be purchased for its food feeding programs. The **USDC APPROVED LIST OF FISH ESTABLISHMENTS AND PRODUCTS**, published bi-annually, provides a listing of products and participants who contract with USDC.

USDC INSPECTION MARKS. These marks designate the level and the type of inspection performed by the federal inspector. The marks can be used in advertising and labeling under the guidelines provided by the Seafood Inspection Division and in accordance with federal and state regulations regarding advertising and labeling. Products bearing the USDC official marks have been certified as being safe, wholesome, and properly labeled.

"US GRADE A" MARK. The U.S. GRADE A mark signifies that a product has been processed under federal inspection in an approved facility and meets the established level of quality of an existing U.S. grade standard. The U.S. Grade A mark indicates that the product is of high quality, uniform in size, practically free from blemishes and defects, in excellent condition and possessing good flavor and odor.

"PROCESSED UNDER FEDERAL INSPECTION" MARK. The PUFIM mark or statement signifies that the product has been inspected in an approved facility and was found to be safe, wholesome and properly labeled according to approved specifications or criteria. The language within the PUFIM mark has been amended to "Processed Under Federal Inspection" to reflect actual inspection procedures and the regulatory requirements for use of the mark.

"LOT INSPECTED" MARK. A new USDC Lot Inspected mark was created to replace the "Officially Sampled" and "Accepted Per Specifications" lot inspection marks used on retail labels. The latter marks were no longer allowed/accepted after September 30, 1997. The use of the new mark meets the needs of both industry and consumers by conveying that the products bearing the mark have been examined by the USDC Program.

"RETAIL" MARK. In response to requests made by industry, a new mark has been created for retail or food service establishments. Participants qualify for use of the "Retail Mark" by receiving the USDC HACCP-based service or being under contract for sanitation services and associated product evaluation. Usage of such a mark will give the retail industry the opportunity to advertise on their banners, logos, or menus that their facility has been recognized by USDC for proper sanitation and handling of fishery products.



USDC HACCP MARK. The USDC HACCP-based service is available to all interested parties on a fee-for-service basis. Label approval, record keeping and analytical testing are program requirements. An industry USDC-certified employee trained in HACCP principles is also required for each facility/site in the program. Compliance ratings determine frequency of official visits. Benefits to participants include increased controls through a more scientific approach, use of established marks, increased efficiency of federal inspection personnel, and enhanced consumer confidence. The USDC has made available a HACCP mark and a "banner" to distinguish products that have been produced under the HACCP-based program. The HACCP banner must be used as an attachment to existing inspection grade marks. Establishments meeting HACCP program requirements may use these marks in conjunction with promotional material, packaging, point-of-sale notices, and menus.

FOR FURTHER INFORMATION:

**U.S. Department of Commerce, NOAA/NMFS
Seafood Inspection Division - F/SF6
1315 East-West Highway
Silver Spring, MD 20910
(301) 713-2355 (FAX: 713-1081)
Toll Free: 1-800-422-2750
Internet: <http://seafood.ssp.nmfs.gov/iss/issue.html>**