

Per Capita Consumption

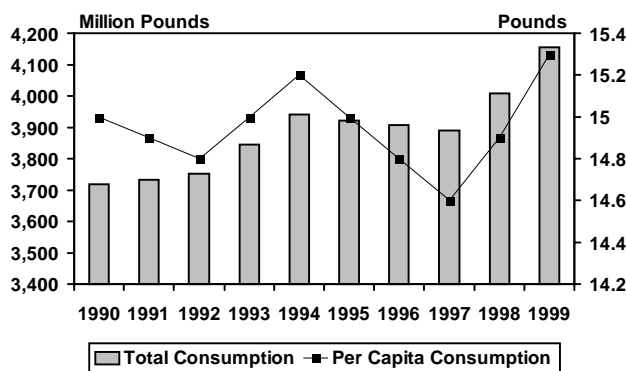
The NMFS calculation of per capita consumption is based on a “disappearance” model. The total U.S. supply of imports and landings is converted to edible weight, and decreases in supply such as exports and inventories are subtracted out. The remaining total is divided by a population value to estimate 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 15.3 pounds (edible meat) in 1999. This total was 0.4 pounds more than the 14.9 pounds consumed in 1998. Per capita consumption of fresh and frozen products was 10.4 pounds, 0.2 pound more than 1998.

Fresh and frozen finfish accounted for 5.9 pounds while fresh and frozen shellfish consumption was 4.5 pounds per capita. The fresh and frozen finfish includes approximately 1.1 pound of farm raised catfish.

Consumption of canned fishery products was 4.6 pounds per capita in 1999, 0.2 pounds more than in 1998. Cured fish accounted for 0.3 pound per capita, the same as in previous years. Imports of edible seafood made up 66 percent of the consumption.

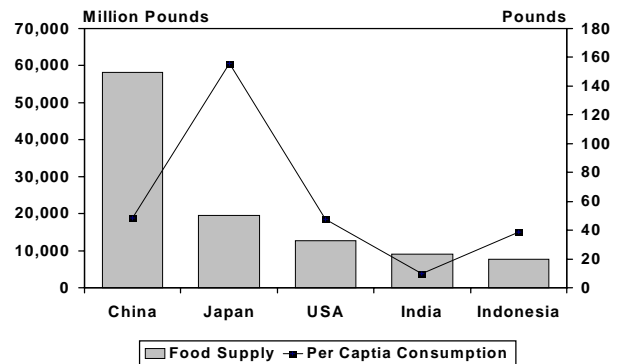
**U.S. Consumption 1990-1999
(Edible Meat Weight)**



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 1999 was 63.7 pounds, up 1.2 pounds compared with 1998.

WORLD CONSUMPTION. The FAO calculation for apparent consumption is also based on a disappearance model. The three year average considers, on a round weight equivalent basis, a country's landings, imports, and exports. The 1995-97 data indicates that the United States ranks as the third largest consumer of seafood in the world.

**Fish and Fishery Products
Apparent Consumption Average 1995-1997
(Live Weight Equivalent)**



Per Capita Consumption

Total U.S. Consumption

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

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1910-1999

Year	Civilian resident population July 1 (1) <u>Million persons</u>	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
		-----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
1999	271.5	10.4	4.6	0.3	15.3

(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 Consumption

U.S. Consumption

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1980-99

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
1999	0.3	0.2	3.4	0.4	0.3	4.6

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1980-99

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
1999	3.2	1.0	* 3.0

(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, sticks and portions; edible (meat) weight of shrimp.

*Record

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1995-97 AVERAGE

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
North America:			Europe - Continued:		
Canada	22.2	48.9	Bosnia-Herzegovina	1.2	2.6
Greenland	84.1	185.4	Bulgaria	2.0	4.4
St. Pierre and Miquelon	68.6	151.2	Croatia	3.6	7.9
United States	20.9	46.1	Czech Republic	8.6	19.0
			Denmark	23.6	52.0
Caribbean:			Estonia	20.4	45.0
Antigua	23.9	52.7	Faeroe Island	86.1	189.8
Aruba	7.6	16.8	Finland	32.8	72.3
Bahamas	22.0	48.5	France	28.4	62.6
Barbados	30.4	67.0	Georgia	1.6	3.5
Bermuda	37.9	83.6	Germany	12.4	27.3
Cayman Islands	13.3	29.3	Greece	25.4	56.0
Cuba	12.4	27.3	Hungary	4.0	8.8
Dominica	29.6	65.3	Iceland	91.1	200.8
Dominican Republic	8.1	17.9	Ireland	16.8	37.0
Grenada	23.8	52.5	Italy	22.0	48.5
Guadeloupe	40.5	89.3	Kazakhstan	2.6	5.7
Haiti	2.6	5.7	Kyrgyzstan	0.4	0.9
Jamaica	15.4	34.0	Latvia	21.8	48.1
Martinique	37.6	82.9	Lithuania	16.9	37.3
Netherlands Antilles	18.8	41.4	Macedonia	4.3	9.5
Saint Lucia	22.0	48.5	Malta	27.4	60.4
St. Vincent	15.3	33.7	Moldova	1.3	2.9
Trinidad-Tobago	12.2	26.9	Netherlands	15.4	34.0
Turks & Caicos	40.2	88.6	Norway	50.1	110.5
			Poland	10.5	23.1
Latin America:			Portugal	59.8	131.8
Argentina	11.1	24.5	Romania	2.3	5.1
Belize	6.7	14.8	Russian Federation	19.5	43.0
Bolivia	1.4	3.1	Slovakia	7.1	15.7
Brazil	6.9	15.2	Slovenia	6.9	15.2
Chile	22.3	49.2	Spain	40.5	89.3
Colombia	4.5	9.9	Sweden	26.1	57.5
Costa Rica	5.2	11.5	Switzerland	13.8	30.4
Ecuador	7.2	15.9	Tajikistan	0.1	0.2
El Salvador	2.5	5.5	Turkmenistan	2.2	4.9
French Guiana	32.5	71.6	Ukraine	6.8	15.0
Guatemala	1.1	2.4	United Kingdom	20.1	44.3
Guyana	55.3	121.9	Uzbekistan	0.5	1.1
Honduras	3.0	6.6	Yugoslavia	2.1	4.6
Mexico	10.5	23.1			
Nicaragua	1.3	2.9	Near East:		
Panama	14.6	32.2	Afghanistan	0.1	0.2
Paraguay	5.1	11.2	Bahrain	16.2	35.7
Peru	25.4	56.0	Cyprus	21.0	46.3
Suriname	24.4	53.8	Egypt	9.3	20.5
Uruguay	7.1	15.7	Iran	5.0	11.0
Venezuela	20.1	44.3	Iraq	1.6	3.5
			Israel	22.6	49.8
Europe:			Jordan	4.3	9.5
Albania	1.3	2.9	Kuwait	12.5	27.6
Armenia	1.2	2.6	Lebanon	6.0	13.2
Austria	10.6	23.4	Libya	6.5	14.3
Azerbaijan	1.2	2.6	Oman	24.0	52.9
Belarus	1.0	2.2	Qatar	12.3	27.1
Belgium and Luxembourg	19.6	43.2	Saudi Arabia	6.5	14.3
			Sudan	1.7	3.7
			Syria	1.0	2.2
			Turkey	8.3	18.3
			United Arab Emirates	27.4	60.4
			Yemen Republic	7.0	15.4

See note at end of table.

(Continued on next page)

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1995-97 AVERAGE

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
Far East:			Africa - Continued:		
Bangladesh	10.1	22.3	Liberia	5.0	11.0
Brunei	28.6	63.1	Madagascar	6.4	14.1
Burma	16.9	37.3	Malawi	5.9	13.0
Cambodia	9.1	20.1	Mali	11.3	24.9
China	24.1	53.1	Mauritania	10.1	22.3
Hong Kong	56.6	124.8	Mauritius	21.8	48.1
India	4.6	10.1	Morocco	7.4	16.3
Indonesia	17.9	39.5	Mozambique	2.0	4.4
Japan	69.0	152.1	Namibia	12.1	26.7
Laos	8.9	19.6	Niger	0.7	1.5
Macao	35.7	78.7	Nigeria	6.3	13.9
Maldives	169.8	374.3	Reunion	19.3	42.5
Malaysia	55.7	60.6	Rwanda	0.6	1.3
Mongolia	0.1	0.2	Sao Tome	22.4	49.4
Nepal	1.0	2.2	Senegal	32.5	71.6
North Korea	16.9	37.3	Seychelles	64.9	143.1
Pakistan	2.0	4.4	Sierra Leone	12.4	27.3
Philippines	31.0	68.3	Somalia	1.4	3.1
Singapore	32.4	71.4	South Africa	7.7	17.0
South Korea	51.2	112.9	St. Helena	68.1	150.1
Sri Lanka	18.8	41.4	Swaziland	0.2	0.4
Taiwan	37.3	82.2	Tanzania	10.7	23.6
Thailand	32.4	71.4	Togo	15.7	34.6
Vietnam	16.9	37.3	Tunisia	9.3	20.5
			Uganda	9.5	20.9
			Zambia	8.4	18.5
			Zimbabwe	3.5	7.7
Africa:			Oceania:		
Algeria	3.7	8.2	Australia	19.1	42.1
Angola	7.5	16.5	Cook Island	54.1	119.3
Benin	9.2	20.3	Fiji	32.7	72.1
Botswana	5.0	11.0	French Polynesia	63.4	139.8
Burkina	1.2	2.6	Kiribati	74.2	163.6
Burundi	2.5	5.5	Marshall Islands	6.6	14.6
Cameroon	9.8	21.6	Micronesia	40.8	89.9
Cape Verde	24.9	54.9	Nauru	37.9	83.6
Central African Rep	4.0	8.8	New Caledonia	22.1	48.7
Chad	6.8	15.0	New Zealand	22.4	49.4
Comoros	21.7	47.8	Niue	56.3	124.1
Congo (Brazzaville)	25.9	57.1	Palau	102.4	225.8
Congo (Kinshasa)	5.9	13.0	Papua New Guinea	14.8	32.6
Djibouti	2.0	4.4	Solomon Islands	40.6	89.5
Equatorial Guinea	20.1	44.3	Tokelau	152.5	336.2
Eritrea	0.8	1.8	Tonga	33.4	73.6
Ethiopia	0.1	0.2	Tuvalu	20.0	44.1
Gabon	47.5	104.7	Vanuatu	26.1	57.5
Gambia	22.4	49.4	Wallis and Futuna Islands	12.5	27.6
Ghana	21.8	48.1	Western Samoa	55.5	122.4
Guinea	14.1	31.1			
Guinea-Bissau	3.3	7.3			
Ivory Coast	11.6	25.6			
Kenya	5.3	11.7			
Lesotho	0.0	0.0			
			World	15.7	34.6

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 Consumption

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 exported.

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, 1960-99 (1)

Year	Total population including armed forces overseas July 1	U.S. supply	Per capita utilization		
			Commercial landings	Imports	Total
			----- Pounds -----		
	Million persons	Million 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
1999	272.9	17,378	34.2	29.5	63.7

(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.