

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 15.6 pounds (edible meat) in 2002. This total was 0.8 pounds more than the 14.8 pounds consumed in 2001. Per capita consumption of fresh and frozen products was 11.0 pounds, 0.7 pound more than 2001.

Fresh and frozen finfish accounted for 6.0 pounds while fresh and frozen shellfish consumption was 5.0 pounds per capita. The fresh and frozen finfish includes approximately 1.1 pounds of farm raised catfish.

Consumption of canned fishery products was 4.3 pounds per capita in 2002, 0.1 pound more than the 4.2 pounds in 2001. Cured fish accounted for 0.3 pound per capita, the same as in previous years. Imports of edible seafood made up 77 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 2002 was 66.0 pounds, up 2.4 pounds compared with 2001.

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 revised 1997-99 data indicates that the United States ranks as the third largest consumer of seafood in the world.

Per Capita Consumption

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, 1910-2002

Year	Civilian resident population July 1 (1) Million persons	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	4.7	0.3	15.4
2000	280.9	10.2	4.7	0.3	15.2
2001	283.6	10.3	4.2	0.3	14.8
2002	287.1	*11.0	4.3	0.3	15.6

(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 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: Canned--5.8, 1936; Cured--4.0, 1909.

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U.S. Consumption

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1980-2002

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	3.5	0.4	0.3	4.7
2000	0.3	0.2	3.5	0.3	0.4	4.7
2001	0.4	0.2	2.9	0.3	0.4	4.2
2002	0.5	0.1	3.1	0.3	0.3	4.3

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1980-2002

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
2000	3.6	0.9	3.2
2001	3.7	0.8	3.4
2002	* 4.1	0.8	* 3.7

(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, 1997-99 AVERAGE (REVISED)

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
North America:			Europe - Continued:		
Canada	23.0	50.7	Belgium and Luxembourg	20.0	44.1
Greenland	84.3	185.8	Bosnia-Herzegovina	1.6	3.5
St. Pierre and Miquelon	64.2	141.5	Bulgaria	4.2	9.3
United States	21.1	46.5	Croatia	4.3	9.5
Caribbean:			Czech Republic	9.7	21.4
Anguilla	23.4	51.6	Denmark	22.5	49.6
Antigua	39.3	86.6	Estonia	17.4	38.4
Aruba	43.7	96.3	Faeroe Island	86.5	190.7
Bahamas	23.4	51.6	Finland	31.1	68.6
Barbados	30.4	67.0	France	29.3	64.6
Bermuda	36.4	80.2	Georgia	1.2	2.6
British Virgin Islands	5.0	11.0	Germany	12.9	28.4
Cayman Islands	6.2	13.7	Greece	24.2	53.4
Cuba	13.1	28.9	Hungary	3.8	8.4
Dominica	35.8	78.9	Iceland	90.6	199.7
Dominican Republic	8.4	18.5	Ireland	13.9	30.6
Grenada	23.5	51.8	Italy	21.9	48.3
Guadeloupe	22.8	50.3	Kazakhstan	1.7	3.7
Haiti	2.9	6.4	Kyrgyzstan	0.7	1.5
Jamaica	19.8	43.7	Latvia	12.6	27.8
Martinique	32.5	71.6	Lithuania	23.9	52.7
Netherlands Antilles	17.4	38.4	Macedonia	4.5	9.9
Puerto Rico	0.7	1.5	Malta	30.1	66.4
Saint Kitts and Nevis	29.9	65.9	Moldova	3.2	7.1
Saint Lucia	28.0	61.7	Netherlands	18.6	41.0
Saint Vincent	14.2	31.3	Norway	51.1	112.7
Trinidad-Tobago	12.0	26.5	Poland	10.8	23.8
Turks & Caicos	29.9	65.9	Portugal	60.2	132.7
U.S. Virgin Islands	6.8	15.0	Romania	2.3	5.1
Latin America:			Russian Federation	21.6	47.6
Argentina	9.6	21.2	Slovakia	7.5	16.5
Belize	12.4	27.3	Slovenia	6.7	14.8
Bolivia	1.6	3.5	Spain	43.9	96.8
Brazil	6.7	14.8	Sweden	25.2	55.6
Chile	15.8	34.8	Switzerland	14.5	32.0
Colombia	4.4	9.7	Tajikistan	0.1	0.2
Costa Rica	5.4	11.9	Turkmenistan	1.6	3.5
Ecuador	6.3	13.9	Ukraine	11.3	24.9
El Salvador	2.5	5.5	United Kingdom	20.0	44.1
French Guiana	50.2	110.7	Uzbekistan	0.5	1.1
Guatemala	1.4	3.1	Yugoslavia	2.7	6.0
Guyana	59.6	131.4	Near East:		
Honduras	2.5	5.5	Afghanistan	0.1	0.2
Mexico	9.6	21.2	Bahrain	13.8	30.4
Nicaragua	3.0	6.6	Cyprus	23.3	51.4
Panama	9.5	20.9	Egypt	11.0	24.3
Paraguay	5.4	11.9	Iran	4.4	9.7
Peru	20.3	44.8	Iraq	1.4	3.1
Suriname	22.8	50.3	Israel	22.9	50.5
Uruguay	8.2	18.1	Jordan	4.2	9.3
Venezuela	18.3	40.3	Kuwait	12.1	26.7
Europe:			Lebanon	6.6	14.6
Albania	2.0	4.4	Libya	6.1	13.4
Armenia	0.4	0.9	Oman	25.6	56.4
Austria	11.3	24.9	Qatar	10.9	24.0
Azerbaijan	0.7	1.5	Saudi Arabia	7.2	15.9
Belarus	8.2	18.1	Sudan	1.7	3.7
			Syria	1.5	3.3
			Turkey	7.2	15.9
			United Arab Emirates	24.5	54.0
			Yemen Republic	6.8	15.0

See note at end of table.

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ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1997-99 AVERAGE (REVISED)

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
Far East:			Africa - Continued:		
Bangladesh	10.2	22.5	Malawi	4.5	9.9
Bhutan	0.2	0.4	Mali	8.9	19.6
Brunei	22.7	50.0	Mauritania	10.5	23.1
Burma	15.8	34.8	Mauritius	23.1	50.9
Cambodia	11.9	26.2	Morocco	7.7	17.0
China	24.5	54.0	Mozambique	2.6	5.7
China - Hong Kong	54.6	120.4	Namibia	11.6	25.6
China - Macao	33.9	74.7	Niger	0.9	2.0
China - Taipei	35.0	77.2	Nigeria	8.8	19.4
India	4.7	10.4	Reunion	12.2	26.9
Indonesia	19.0	41.9	Rwanda	1.0	2.2
Japan	64.1	141.3	Sao Tome	18.5	40.8
Laos	9.9	21.8	Senegal	29.1	64.2
Malaysia	57.7	127.2	Seychelles	62.7	138.2
Maldives	203.3	448.2	Sierra Leone	13.5	29.8
Mongolia	0.0	0.0	Somalia	2.4	5.3
Nepal	1.1	2.4	South Africa	7.5	16.5
North Korea	9.4	20.7	Saint Helena	63.4	139.8
Pakistan	2.5	5.5	Swaziland	10.2	22.5
Philippines	29.5	65.0	Tanzania	8.8	19.4
Singapore	26.7	58.9	Togo	13.3	29.3
South Korea	47.8	105.4	Tunisia	9.4	20.7
Sri Lanka	20.3	44.8	Uganda	8.9	19.6
Thailand	28.6	63.1	Zambia	7.3	16.1
Vietnam	17.9	39.5	Zimbabwe	2.5	5.5
Africa:			Oceania:		
Algeria	3.5	7.7	American Samoa	1.8	4.0
Angola	10.9	24.0	Australia	20.9	46.1
Benin	8.7	19.2	Cook Island	51.1	112.7
Botswana	4.2	9.3	Fiji	32.3	71.2
Burkina	1.6	3.5	French Polynesia	46.9	103.4
Burundi	2.4	5.3	Guam	2.9	6.4
Cameroon	13.1	28.9	Kiribati	75.1	165.6
Cape Verde	20.0	44.1	Marshall Islands	6.6	14.6
Central African Rep	4.2	9.3	Micronesia	39.0	86.0
Chad	6.9	15.2	Nauru	34.3	75.6
Comoros	19.2	42.3	New Caledonia	23.5	51.8
Congo (Brazzaville)	21.0	46.3	New Zealand	30.0	66.1
Congo (Kinshasa)	6.3	13.9	Niue	100.0	220.5
Djibouti	2.2	4.9	Northern Mariana Islands	3.4	7.5
Equatorial Guinea	20.0	44.1	Palau	91.4	201.5
Eritrea	0.9	2.0	Papua New Guinea	14.9	32.8
Ethiopia	0.2	0.4	Solomon Islands	46.5	102.5
Gabon	47.2	104.1	Tokelau	200.0	440.9
Gambia	23.6	52.0	Tonga	40.7	89.7
Ghana	31.7	69.9	Tuvalu	32.8	72.3
Guinea	11.1	24.5	Vanuatu	31.6	69.7
Guinea-Bissau	4.2	9.3	Wallis and Futuna Islands	14.0	30.9
Ivory Coast	14.0	30.9	Western Samoa	50.8	112.0
Kenya	5.4	11.9			
Liberia	5.9	13.0			
Madagascar	7.5	16.5			
			World	15.8	34.8

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 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, 1960-2002 (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
1999	272.9	17,378	34.2	29.5	63.7
2000	282.3	17,338	32.1	29.3	61.4
2001	285.0	18,118	33.3	30.3	63.6
2002	288.4	19,028	32.6	33.4	66.0

(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.