

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 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 16.0 pounds (edible meat) in 2008. This total was 0.3 pounds less than the 16.3 pounds consumed in 2007. Per capita consumption of fresh and frozen products was 11.8 pounds, 0.3 pound less than in 2007. Fresh and frozen finfish accounted for 6.2 pounds while fresh and frozen shellfish consumption was 5.6 pounds per capita.

Consumption of canned fishery products was 3.9 pounds per capita in 2008, the same as in 2007. Cured fish

accounted for 0.3 pound per capita, the same as in previous years. Imports of edible seafood made up 83 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 2008 was 63.2 pounds, down 4.7 pounds compared with 2007.

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 2003-2005 average 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 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, 1910-2008

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	4.7	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
2003 (5)	289.6	11.4	4.6	0.3	16.3
2004	292.4	11.8	4.5	0.3	*16.6
2005	295.3	11.6	4.3	0.3	16.2
2006	298.2	*12.3	3.9	0.3	16.5
2007	300.5	12.1	3.9	0.3	16.3
2008	302.9	11.8	3.9	0.3	16.0

(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.

(5) The use of beginning and ending inventories was discontinued as of 2003.

*Record years: Canned--5.8, 1936; Cured--4.0, 1909.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1980-2008

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
2003	0.4	0.1	3.4	0.4	0.3	4.6
2004	0.3	0.1	3.3	0.4	0.4	4.5
2005	0.4	0.1	3.1	0.4	0.3	4.3
2006	0.2	0.2	2.9	0.4	0.2	3.9
2007	0.3	0.2	2.7	0.4	0.3	3.9
2008	0.1	0.2	2.8	0.4	0.4	3.9

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1980-2008

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
2003	4.3	0.7	4.0
2004	4.6	0.7	4.2
2005	5.0	0.9	4.1
2006	* 5.2	0.9	* 4.4
2007	5.0	0.9	4.1
2008	4.8	1.0	4.1

(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

PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 2003- 2005 AVERAGE

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
North America:			Europe - Continued:		
Bermuda	39.7	87.6	Azerbaijan	1.5	3.4
Canada	24.0	52.9	Belarus	15.2	33.5
Greenland	85.0	187.4	Belgium	25.0	55.1
Saint Pierre & Miquelon	72.5	159.8	Bosnia-Herzegovina	6.5	14.3
United States	24.2	53.4	Bulgaria	4.6	10.2
Caribbean:			Croatia	14.1	31.2
Anguilla	20.8	45.9	Czech Republic	10.3	22.8
Antigua	43.1	94.9	Denmark	22.9	50.5
Aruba	28.2	62.1	Estonia	17.4	38.3
Bahamas	30.0	66.1	Faeroe Island	86.0	189.6
Barbados	38.1	84.0	Finland	32.5	71.7
British Virgin Islands	2.3	5.1	France	34.3	75.5
Cayman Islands	11.7	25.9	Georgia	3.1	6.8
Cuba	9.3	20.5	Germany	14.3	31.5
Dominica	30.2	66.5	Greece	21.0	46.4
Dominican Republic	10.1	22.3	Hungary	4.9	10.7
Grenada	39.9	87.9	Iceland	90.5	199.4
Guadeloupe	23.3	51.3	Ireland	16.2	35.8
Haiti	2.8	6.2	Italy	24.1	53.2
Jamaica	25.3	55.8	Kazakhstan	2.7	5.9
Martinique	16.0	35.3	Kyrgyzstan	1.3	2.9
Montserrat	33.4	73.6	Latvia	11.7	25.7
Netherlands Antilles	21.4	47.1	Lithuania	38.9	85.7
Puerto Rico	0.8	1.8	Luxembourg	27.1	59.7
Saint Kitts & Nevis	30.7	67.7	Macedonia	5.1	11.2
Saint Lucia	29.8	65.8	Malta	31.2	68.7
Saint Vincent	14.4	31.7	Moldova	9.5	20.9
Trinidad & Tobago	17.1	37.8	Netherlands	22.5	49.5
Turks & Caicos	37.2	81.9	Norway	46.6	102.7
U.S. Virgin Islands	13.4	29.6	Poland	8.6	19.1
Latin America:			Portugal	55.4	122.1
Argentina	6.6	14.5	Romania	4.0	8.7
Belize	13.6	30.0	Russian Federation	17.4	38.4
Bolivia	1.6	3.5	Serbia & Montenegro	4.1	9.0
Brazil	6.0	13.2	Slovakia	7.9	17.4
Chile	22.6	49.9	Slovenia	9.2	20.2
Colombia	5.2	11.5	Spain	42.9	94.5
Costa Rica	8.2	18.0	Sweden	29.5	65.1
Ecuador	4.5	9.9	Switzerland	15.1	33.4
El Salvador	5.7	12.7	Tajikistan	0.2	0.4
Falkland Islands	28.9	63.8	Turkmenistan	3.3	7.2
French Guiana	30.0	66.1	Ukraine	13.9	30.6
Guatemala	2.2	4.7	United Kingdom	19.8	43.5
Guyana	38.2	84.3	Uzbekistan	0.3	0.6
Honduras	3.2	7.1	Near East:		
Mexico	11.6	25.6	Afghanistan	0.0	0.1
Nicaragua	3.1	6.8	Bahrain	15.4	34.0
Panama	11.1	24.5	Cyprus	22.5	49.5
Paraguay	4.3	9.5	Egypt	15.7	34.6
Peru	20.2	44.6	Iran	6.4	14.1
Suriname	17.1	37.6	Iraq	1.2	2.7
Uruguay	6.9	15.2	Israel	22.1	48.7
Venezuela	17.7	39.1	Jordan	4.9	10.8
Europe:			Kuwait	9.7	21.3
Albania	4.5	9.9	Lebanon	7.9	17.5
Armenia	1.4	3.0	Libya	9.5	20.9
Austria	12.2	26.8	Oman	28.0	61.7
			Qatar	20.5	45.2
			Saudi Arabia	8.5	18.8
			Sudan	1.6	3.6
			Syria	2.4	5.2

PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 2003- 2005 AVERAGE

Region and Country	Estimated live weight equivalent		Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds		Kilograms	Pounds
Near East - Continued:			Africa - Continued:		
Turkey	7.1	15.6	Guinea-Bissau	1.4	3.1
United Arab Emirates	18.5	40.8	Ivory Coast	14.0	30.9
Yemen	8.7	19.2	Kenya	3.0	6.7
Far East:			Lesotho	0.0	0.0
Bangladesh	13.6	30.0	Liberia	3.9	8.5
Bhutan	0.5	1.1	Madagascar	7.1	15.6
Brunei	36.1	79.5	Malawi	4.5	9.9
Burma	24.2	53.3	Mali	9.4	20.8
Cambodia	23.4	51.6	Mauritania	18.0	39.6
China	25.9	57.2	Mauritius	18.5	40.8
China - Hong Kong	62.1	137.0	Morocco	9.6	21.1
China - Macao	55.1	121.5	Mozambique	4.7	10.4
China - Taipei	35.0	77.1	Namibia	13.3	29.3
India	4.6	10.1	Niger	3.4	7.5
Indonesia	20.9	46.1	Nigeria	8.9	19.5
Japan	63.2	139.4	Rwanda	0.9	2.1
Laos	18.7	41.2	Sao Tome	21.9	48.3
Malaysia	55.4	122.2	Senegal	27.6	60.8
Maldives	179.8	396.3	Seychelles	61.7	136.1
Mongolia	0.2	0.5	Sierra Leone	22.5	49.7
Nepal	1.5	3.3	Somalia	3.3	7.3
North Korea	7.2	15.9	South Africa	7.0	15.3
Pakistan	1.9	4.1	Saint Helena	69.5	153.2
Philippines	31.7	69.8	Swaziland	7.9	17.5
Singapore	37.9	83.5	Tanzania	6.7	14.9
South Korea	52.6	116.0	Togo	7.3	16.2
Sri Lanka	18.5	40.8	Tunisia	12.3	27.2
Thailand	32.6	71.9	Uganda	10.2	22.6
Viet Nam	25.4	56.0	Zambia	6.8	15.0
Africa:			Zimbabwe	1.4	3.0
Algeria	4.7	10.3	Oceania:		
Angola	13.7	30.2	American Samoa	2.8	6.2
Benin	9.3	20.6	Australia	24.8	54.6
Botswana	2.6	5.7	Cook Island	67.0	147.7
Burkina	1.7	3.8	Fiji	36.8	81.1
Burundi	1.9	4.2	French Polynesia	48.5	107.0
Cameroon	15.0	33.1	Kiribati	75.2	165.7
Cape Verde	17.0	37.5	Marshall Islands	11.2	24.8
Central African Rep	4.1	9.1	Micronesia	47.5	104.7
Chad	6.1	13.6	Nauru	4.3	9.5
Comoros	20.4	45.0	New Caledonia	21.6	47.6
Congo (Brazzaville)	20.4	44.9	New Zealand	24.5	53.9
Congo (Kinshasa)	5.4	12.0	Palau	58.5	128.9
Djibouti	1.0	2.3	Papua New Guinea	16.8	37.1
Equatorial Guinea	27.2	59.9	Solomon Islands	48.9	107.7
Eritrea	1.4	3.1	Tonga	53.1	117.0
Ethiopia	0.1	0.3	Tuvalu	45.9	101.2
Gabon	40.4	89.1	Vanuatu	31.3	69.0
Gambia	22.8	50.4	Wallis & Futuna	20.0	44.1
Ghana	25.3	55.8	Western Samoa	57.2	126.1
Guinea	12.1	26.6			
			World	16.4	36.2

Note:--Data are preliminary and refer to consumption of fish, crustaceans and mollusks.

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

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, 1960-2008 (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
2003	291.0	19,849	32.7	35.5	68.2
2004	293.9	20,373	32.8	36.5	69.3
2005	296.9	20,529	32.4	36.7	69.1
2006	299.8	20,960	31.6	38.3	69.9
2007	302.0	20,484	30.6	37.3	67.9
2008	304.5	19,252	27.3	35.9	63.2

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