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 industrial uses are subtracted out. The remaining total is divided by the U.S. population 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.

Estimated U.S. per capita consumption of fish and shellfish was 14.6 pounds (edible meat) in 2014. This total was essentially unchanged from the 14.5 pounds consumed in 2013. The small change is due to an increase in consumption of fresh and frozen seafood. This increase offset a decrease in the estimate of the consumption of canned seafood, which was caused by a decrease in canned salmon production in 2014. The model used to calculate consumption does not take into account inventories of products on hand at the beginning and end of the year. Thus, the large domestic production of canned pink salmon in 2013 was entirely attributed to consumption in 2013 even though it is reasonable to assume that much of this product would actually have been consumed in 2014.

Per capita consumption of fresh and frozen products was 10.9 pounds, an increase of 0.4 pounds from 2013. Fresh and frozen finfish accounted for 5.9 pounds, while fresh and frozen shellfish consumption was 5.0 pounds per capita.

Consumption of canned fishery products was 3.4 pounds per capita in 2014, down 0.3 pounds from 2013. Cured fish accounted for 0.3 pound per capita, the same as in previous years.

In previous volumes of Fisheries of the United States, NOAA has reported the percent of edible seafood consumption that is made up of imports. This

measure has been rising in recent years reflecting the increase in imported seafood. Using the same model assumptions the corresponding figure for 2014 would be 94 percent. However, NMFS believes that the existing model may overestimate this percentage. The calculation is made by converting all imports, exports, domestic landings, and domestic processing into a common standard, edible meat weight. Numerous conversion factors are used to get to this edible meat weight standard, and the accuracy and variability of these various factors is likely to effect the overall calculation. In addition, this figure may include a substantial amount of domestic catch that was exported for further processing and returned to the United States as an import in a processed form. Therefore, while seafood imports do appear to be rising, the exact figure is difficult to know precisely. NOAA Fisheries plans to investigate better ways to report consumption and indicate our dependence on imported seafood.

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 2014 was 66.0 pounds, down 0.4 pounds compared with 2013.

WORLD CONSUMPTION

The FAO calculation for apparent consumption is also based on a disappearance model, but with slightly different assumptions and based on a round weight standard. The three year average considers a countries landings, imports, and exports. The 2010-2012 average data, and 2011 population figures, indicate that the U.S. now ranks as the second largest consumer of seafood in the world after China and before Japan.

Per Capita 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 exports, divided by the civilian resident population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1910-2014

	Civilian Resident	Per capita consumption			
Year	Population July 1 (1)	Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	Million persons		Pounds, edible	e 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
1930	122.3	5.0	5.7	1.0	10.2
1940	132.1	5.7	4.6	0.7	11.0
	4=0.0				44.0
1950	150.8	6.3	4.9	0.6	11.8
1960	178.1	5.7	4.0	0.6	10.3
1300	170.1	0.1	4.0	0.0	10.0
1970	201.9	6.9	4.5	0.4	11.8
4000	205.0	7.0			40.5
1980	225.6	7.9	4.3	0.3	12.5
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	
1998 1999	269.1 271.5	10.2 10.4	4.4 4.7	0.3	14.9
1999	271.3	10.4	4.7	0.5	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	
2005	295.3	11.6	4.3	0.3	16.2
2006	298.2	*12.3	3.9	0.3	16.5
2007 2008	300.5 302.9	12.1 11.8	3.9 3.9	0.3	16.3 16.0
2008	305.8	12.0	3.7	0.3	16.0
2009	303.0	12.0	5.1	0.5	10.0
2010	308.4	11.6	3.9	0.3	15.8
2011	310.4	10.9	3.8	0.3	
2012	312.7	10.5	3.6	0.3	14.4
2013	314.9	10.5	3.7	0.3	14.5
2014	317.6	10.9	3.4	0.3	14.6

⁽¹⁾ Resident population is used for 1910 and 1920 and civilian resident population is used since 1930.

⁽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: Fresh & Frozen -- 12.3,2006; Canned--5.8, 1936; Cured--4.0, 1909.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1985-2014

0.5.	ANNUAL PER					
Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
			Pour	nds		
1985	0.5	0.3	3.3	0.5	0.4	5.0
1986	0.5	0.3	3.6	0.5		
1987	0.4	0.3	3.5	0.5	0.5	
1988	0.3	0.3	3.6	0.4	0.3	
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		0.3	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	3.9
2009	0.2	0.2	2.5	0.4	0.4	3.7
2010	0.2	0.2	2.7	0.4	0.4	3.9
2011	0.2	0.2	2.6	0.4	0.4	3.8
2012	0.2	0.2	2.4	0.4	0.4	3.6
2013	0.4	0.2	2.3	0.4	0.4	3.7
2014	0.1	0.2	2.3	0.4	0.4	3.4

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1985-2014

Year	Fillets and steaks (1)	Sticks and portions	Shrimp, all preparation
1985	3.2	Pounds (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
1000	0.1		2.10
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
2009	4.6	0.7	4.1
2010	5.0	0.9	4.0
2011	5.0	0.9	4.2
2012	5.6	0.7	3.8
2013	5.9	0.6	3.6
2014	5.9	0.6	4.0

⁽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 year

PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 2010-2012 AVERAGE

	Estimated live weight		
Region and Country	equivalent		
	Kilograms	Pounds	
North America:			
Bermuda	42.1	92.9	
Canada	22.2	49.0	
Greenland Saint Pierre & Miguelon	86.0 72.7	189.6 160.2	
United States	21.7	47.8	
Caribbean:			
Anguilla	43.1	95.0	
Antigua and Barbuda Aruba	54.6 42.6	120.3 94.0	
Aruba Bahamas	30.0	66.1	
Barbados	39.0	86.0 l	
British Virgin Islands	34.1	75.2	
Cayman Islands	17.4	38.4	
Cuba Dominica	5.6 26.2	12.3 57.8	
Dominican Republic	9.0	19.7	
Grenada	29.5	65.0	
Guadeloupe	23.8	52.5	
Haiti	4.6 24.2	10.1	
Jamaica Martinique	19.6	53.3 43.2	
Montserrat	26.5	58.4	
Netherland Antilles	26.3	57.9	
Puerto Rico	0.4	0.9	
Saint Kitts & Nevis	38.0 23.9	83.7 52.7	
Saint Lucia Saint Vincent	18.4	40.6	
Trinidad & Tobago	22.6	49.9	
Turks & Caicos	46.4	102.3	
U.S. Virgin Islands	6.9	15.3	
Latin America:	5.9	12.1	
Argentina Belize	14.6	13.1 32.1	
Bolivia	2.1	4.6	
Brazil	9.3	20.6	
Chile	14.4	31.6	
Colombia Costa Rica	5.9 12.5	13.1 27.5	
Ecuador	8.2	18.2	
El Salvador	7.3	16.0	
Falkland Islands	36.9	81.3	
French Guiana Guatemala	16.4 1.4	36.2 3.0	
Guaterriala	31.5	69.4	
Honduras	3.7	8.2	
Mexico	11.3	24.81	
Nicaragua	5.0 13.5	11.0	
Panama Paraguay	13.5 3.8	29.7 8.3	
Peru	22.4	49.4	
Suriname	16.9	37.2	
Uruguay Venezuela	6.7 8.7	14.7 19.1	
Europe:			
Albania	5.5	12.2	
Armenia	3.0	6.6	
Austria	13.8	30.5	
Azerbaijan	2.2	4.8	

	Estimated live weight		
Region and Country	equivalent		
	Kilograms Pounds		
Belarus	17.4 38.3		
Belgium Bosnia-Herzegovina	26.1 57.5 5.9 13.0		
Bulgaria	6.5		
Croatia	19.2 42.4		
Czech Republic	9.4 20.7		
Denmark Estonia	23.0 50.7 14.6 32.2		
Faroe Island	85.5 188.5		
Finland	36.4 80.2		
France	34.5 76.0		
Georgia	10.5 23.1		
Germany Greece	14.2 31.3 19.6 43.3		
Hungary	5.2 11.5		
Iceland	89.9 198.1		
Ireland	22.5 49.6		
Italy Kazakhstan	26.5 58.5 5.3 11.7		
Kyrgyzstan	5.3 11.7 2.3 5.0		
Latvia	27.7 61.0		
Lithuania	43.5 95.8		
Luxembourg	32.0 70.5		
Macedonia Malta	5.7 12.5 30.6 67.4		
Moldova	12.9 28.4		
Montenegro	11.2 24.7		
Netherlands	23.6 52.0		
Norway	53.4 117.8 9.9 21.9		
Poland Portugal	9.9 21.9 55.9 123.3		
Romania	6.2 13.7		
Russian Federation	22.3 49.2		
Serbia	6.9 15.1		
Slovakia Slovenia	8.1 17.8 11.2 24.6		
Spain	42.1 92.9		
Sweden	31.1 68.5		
Switzerland	17.6 38.7		
Tajikistan Turkmenistan	0.5 1.0 3.7 8.1		
Ukraine	13.9 30.6		
United Kingdom	20.1 44.3		
Uzbekistan	0.6 1.4		
Nacy Facts			
Near East:	0.1 0.2		
Afghanistan Bahrain	10.8 23.7		
Cyprus	22.2 49.0		
Egypt	22.1 48.7		
lran	8.9 19.6		
Iraq Israel	2.9 6.4 23.1 50.9		
Jordan	6.0 13.2		
Kuwait	16.5 36.3		
Lebanon	11.5 25.4		
Oman Qatar	26.4 58.3 22.7 50.1		
Saudi Arabia	11.4 25.1		
Syria	3.3 7.2		
Turkey	6.3 13.8		
United Arab Emirates	23.7 52.1		
Yemen	2.7 6.0		

PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 2010-2012 AVERAGE

	Estimated live weight		
Region and Country	equivalent		
	Kilograms Pounds		
Far East:	40.5		
Bangladesh Bhutan	19.5 43.0 5.2 11.5		
Brunei	28.2 62.1		
Burma	53.7 118.5		
Cambodia	38.8 85.6		
China China - Hong Kong	33.9 74.8 70.6 155.6		
China - Hong Rong China - Macao	57.9		
China - Taipei	33.3 73.3		
India	5.3 11.8		
Indonesia	28.2 62.2 52.2 115.1		
Japan Laos	52.2 115.1 19.7 43.4		
Malaysia	57.1 125.9		
Maldives	164.0 361.6		
Mongolia	0.6 1.4		
Nepal North Korea	2.1 4.7 9.4 20.7		
Pakistan	2.0 4.3		
Philippines	33.2 73.3		
Singapore	47.3 104.3		
South Korea	59.6 131.5 25.6 56.3		
Sri Lanka Thailand	25.7 56.7		
Timor-Leste	5.6 12.4		
Viet Nam	33.6 74.1		
Africa			
Africa:	3.9 8.6		
Algeria Angola	16.1 35.5		
Benin	13.4 29.6		
Botswana	3.3 7.2		
Burkina Faso Burundi	6.3 13.9 1.8 3.9		
Cameroon	17.1 37.7		
Cape Verde	11.9 26.2		
Central African Republic	9.3 20.5		
Chad Comoros	4.7 10.5 17.4 38.3		
Congo (Brazzaville)	5.6 12.2		
Congo (Kinshasa)	23.9 52.6		
Côte d'Ivoiré	17.4 38.3		
Djibouti	1.9 4.3 25.4 56.1		
Equatorial Guinea Eritrea	0.5		
Ethiopia	0.2 0.5		
Gabon	32.5 71.7		
Gambia	27.1 59.7 25.7 56.7		
Ghana Guinea	9.6 21.2		
Guinea-Bissau	1.4 3.0		
Kenya	41 91		
Lesotho	0.9 1.9 4.3 9.5		
Liberia Libya	4.3 9.5 19.0 41.8		
Madagascar	5.1 11.2		
Malawi	6.1 13.4		
Mali	8.6 18.9		
Mauritania Mauritius	9.6 21.1 23.0 50.8		
Morocco	23.0 50.8 12.7 28.0		
Mozambique	8.0 17.6		
Namibia	12.2 26.9		
Niger Niger	3.1 6.8		

	Estimated	d live weight	
Region and Country	equivalent		
	Kilograms	Pounds	
Nigeria	16.3	35.9	
Rwanda	3.6	7.9	
Saint Helena	85.3	188.0	
Sao Tome and Principe	26.8	59.0	
Senegal	23.4	51.6	
Seychelles	59.5	131.3	
Sierra Leone	33.9	74.8	
Somalia South Africa	3.1 5.7	6.8 12.7	
South Africa South Sudan	3.4	7.5	
Sudan	3.4 1.0	7.5 2.1	
Swaziland	1.4	3.0	
Tanzania	6.0	13.2	
Togo	11.8	26.0	
Tunisia	12.5	27.6	
Uganda	13.4	29.5	
Zambia	6.7	14.7	
Zimbabwe	2.7	6.0	
		0.0	
Oceania:			
American Samoa	6.0	13.2	
Australia	26.3	57.9	
Cook Islands	56.7	125.1	
Fiji	35.8	79.0	
French Polynesia	48.4	106.7	
Kiribati	74.4	164.0	
Marshall Islands	18.0	39.8	
Micronesia	49.3	108.6	
Nauru	54.1	119.2	
New Caledonia	27.9	61.4	
New Zealand	25.8	56.8	
Palau	56.8	125.3	
Papua New Guinea	16.4	36.2	
Samoa	47.7	105.1	
Solomon Islands	35.0	77.3	
Tonga	30.6 43.4	67.5 95.8	
Tuvalu Vanuatu	43.4 32.4	95.8 71.5	
Vanuatu Wallis & Futuna	32.4 62.2	71.5 137.1	
vvaiiis & Futuria	02.2	137.1	
World	18.9	41.6	

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

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

Per Capita Consumption

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, 1966-2014 (1)

	Total population		Per capita utilization		
	including armed			·	
Year	forces overseas	U.S. supply	Commercial	Imports	Total
	July 1		landings		1000
	Million persons	Million pounds		Pounds	
1966	196.6	12,469	22.2	41.2	63.4
1967	198.7	13,991	20.4	50.0	
1968	200.7	17,381	20.7	65.9	
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	
1978	222.6	11,509	27.1	24.6	51.7
1979	225.1	11,831	27.9	24.7	52.6
4000				.	
1980	227.7	11,357	28.5	21.4	49.9
1981	230.0	11,353	26.0	23.4	
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	
1986	240.7	14,368	25.1	34.6	
1987	242.8	15,744	28.4	36.4	
1988	245.0	14,628	29.3	30.4	
1989	247.3	15,485	34.2	28.4	62.6
1990	249.9	16,349	37.6	27.8	65.4
1991	249.9 252.7	16,363	37.5	27.0	
1992	255.5	16,106	37.7	27.3	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	
1000	212.5	17,070	04.2	25.5	00.7
2000	282.3	17,338	32.1	29.3	61.4
2001	285.0	18,118		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	20,412	32.8	36.5	69.3
2005	296.9	20,612	32.4	36.7	69.1
2006	299.8	20,960		38.3	69.9
2007	302.0	20,561	30.6	37.3	
2008	304.5	19,201	27.3	35.9	63.2
2009	307.4	18,900		35.4	
		·			
2010	310.1	19,748	26.5	37.1	63.6
2011	312.0	21,106	31.6	36.1	67.7
2012	314.3	20,757	30.7	35.4	
2013	316.4	20,998		35.2	
2014	318.9	21,050	29.7	36.3	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.