

Processed Fishery Products

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 2014 the U.S. production of raw (uncooked) fish fillets and steaks, including blocks, was 785.8 million pounds—3.1 million pounds more than the 782.8 million pounds in 2013 due to increases in cod, hake, Alaska Pollock and tilapia fillets. There were also increases in haddock and flounder fillets. All fillets and steaks were valued at \$2.1 billion. Alaska pollock fillets and blocks continue to lead all species with 479 million pounds—an increase from the 473 million pounds in 2013 and representing 61 percent of the total. Production of groundfish fillets and steaks (see Glossary Section-Groundfish) was 621.2 million pounds, an increase of 17 million pounds from 2013.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 199 million pounds valued at \$352.2 million compared with the 2013 production of 205.1 million pounds valued at \$343.2 million. The total production of fish sticks amounted to 66.5 million pounds valued at \$100.6 million. The total production of fish portions amounted to 132.5 million pounds valued at \$251.6 million.

BREADED SHRIMP. The production of breaded shrimp in 2014 was 104.7 million pounds valued at \$312.3 million. This represents a decrease in volume and an increase in value from the 2013 production of 109.3 million pounds valued at \$311.2 million.

CANNED PRODUCTS

CANNED FISHERY PRODUCTS. The pack of canned fishery products in the 50 states, American Samoa, and Puerto Rico was 732.7 million pounds valued at \$1.4 billion—a decrease in volume of 231.4 million pounds and \$405 million dollars compared to 2013. The 2014 pack included 561.6 million pounds with a value of \$1.2 billion for human consumption and 171.1 million pounds valued at \$148.8 million for bait and animal food.

CANNED SALMON. The 2014 U.S. pack of salmon was 89.4 million pounds valued at \$354 million, decreases in volume and value from the 2013 levels of 203 million pounds and \$571.8.

CANNED TUNA. The U.S. pack of tuna was 391 million pounds valued at \$783.4 million—an

increase of 7.4 million pounds in volume and decrease of \$68.5 million in value compared with the 2013 pack. The pack of albacore tuna was 136.1 million pounds comprising 35% percent of the tuna pack in 2014. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 254.9 million pounds.

CANNED CLAMS. The 2014 U.S. pack of clams (whole, minced, chowder, juice, and specialties) was 77 million pounds valued at \$74.1 million. The pack of whole and minced clams was 18.1 million pounds. Clam chowder and clam juice was 58.6 million pounds and made up the majority of the pack.

OTHER CANNED ITEMS. The pack of pet food and bait was 171.1 million pounds valued at \$149.8 million—a decrease in volume and value from 2013 levels of 301.6 million pounds worth \$246.3 million.

INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of industrial fishery products was \$590.5 million—an increase of \$111.7 million compared with the 2013 value.

FISH MEAL. The domestic production of fish and shellfish meal was 514.7 million pounds valued at \$299.6 million—an increase of 6.6 million pounds and \$57.6 million compared with 2013. Most of this production was fish meal (515 million pounds) while shellfish meal production was 400 thousand pounds—an increase of 309 thousand pounds from the 2013 level.

FISH OILS. The domestic production of fish oils was 139.0 million pounds (approximately 17.9 million gallons) valued at \$84.6 million—a decrease of 36.9 million pounds and an increase of \$28 million in value compared with 2013 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, and mussel shell buttons were valued at \$206.2 million.

Processed Fishery Products

METHODOLOGY:

The NMFS Survey of Fishery Processors is the only comprehensive, national survey that focuses on the domestic seafood processing industry. The resulting data are reported in this section of Fisheries of the United States, as well as reports of the Food and Agriculture Organization of the United Nations, Fisheries Economics of the United States, commercial fisheries disposition calculations, annual per-capita consumption figures and other reports.

In all regions except the Northeast, the survey is voluntary. In the Northeast it is mandatory for processors with a federal processing permit to provide the requested data.

The survey instrument is a paper form that asks for monthly employment figures, a list of product types and the volume and value of each product processed in the previous year. Space is provided for the company to fill in new products. The survey forms are produced by NMFS Office of Science and Technology and mailed to five different regional contacts. Each region then proceeds slightly differently:

- Northeast – The distribution of forms to companies is overseen by a lead port agent. Other port agents may assist with collecting information from the companies in their area. Dealer permits are not renewed if the processor has not provided the required data.
- Southeast and Gulf – Forms are distributed through the Southeast Fishery Science Center to the port agents along the coast who are then responsible for obtaining the data from the companies.
- Southwest and Northwest – Forms are distributed through, and returned to, the Pacific States Marine Fisheries Commission office under an agreement with NMFS.
- Pacific Islands – Forms are distributed and collected by Pacific Islands Regional Office staff.

The companies in the survey are those that have reported previously or have been found by research or word-of-mouth. Adding companies in order to have a more complete data frame is a constant goal throughout the year.

Forms are returned to the Office of Science and Technology for data entry. Follow up contact may be attempted to clarify data that is excluded or unclear. Because the survey is voluntary, we do not receive data from every company we contact. We employ various estimation and alternate data collection methods:

- Most Alaska data are obtained from the Alaska Fisheries Information Network (AKFIN).
- Data on salmon processing come from the Alaska Department of Revenue.
- USDA reports provide data on catfish and rainbow trout processing.
- Data from the NOAA Seafood Inspection Program are used to estimate the data for companies that have not reported to the Survey of Fishery Processors but are included in the inspection program
- Finally, imputation is used to estimate the remaining missing companies.

Processed Fishery Products

VALUE OF PROCESSED FISHERY PRODUCTS, 2013 AND 2014 (Processed from domestic catch and imported products)

Item	2013 (1)		2014	
	Thousand dollars	Percent of total	Thousand dollars	Percent of total
Edible:				
Fresh and frozen	9,537,263	79	7,944,428	79
Canned	1,533,586	13	1,225,445	12
Cured	230,694	2	129,288	1
Total edible	11,301,543	94	9,299,161	92
Industrial:				
Bait and animal food	282,857	2	200,793	2
Meal and oil	298,709	2	384,168	4
Other	172,512	1	196,580	2
Total industrial	754,078	6	781,541	8
Grand total	12,055,621	100	10,080,702	100

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

(1) Revised based on additional data.

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 2005-2014

Year	Fish sticks			Fish portions			Breaded shrimp		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
2005	61,751	28,010	75,654	180,840	82,028	323,353	120,097	54,476	277,613
2006	59,353	26,922	61,942	178,742	81,077	302,984	139,571	63,309	347,152
2007	73,926	33,533	104,974	194,005	88,000	300,137	86,131	39,069	200,147
2008	82,461	37,404	120,615	204,491	92,757	310,213	74,172	33,644	159,416
2009	79,586	36,100	125,258	140,584	63,768	291,569	97,124	44,055	251,594
2010	74,451	33,771	113,069	141,849	64,342	277,466	116,935	53,041	562,928
2011	80,034	36,303	104,829	172,051	78,042	345,686	92,460	41,940	240,976
2012	58,214	26,406	87,430	151,721	68,820	259,504	79,740	36,170	193,837
2013	58,545	26,556	87,487	146,594	66,495	255,725	109,293	49,575	311,211
2014	66,506	30,167	100,633	132,489	60,097	251,597	104,738	47,509	312,308

Processed Fishery Products

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 2013 AND 2014

Species	2013 (1)			2014		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Fillets:						
Amberjack	309	140	3,431	72	33	755
Anglerfish	543	246	3,013	362	164	2,029
Bluefish	110	50	378	94	43	393
Cobia	48	22	480	40	18	490
Cod	71,864	32,597	244,773	76,894	34,879	252,767
Cusk	6	3	17	14	6	55
Dolphinfish	4,330	1,964	27,865	3,094	1,403	19,490
Flounders	14,452	6,555	62,028	16,927	7,678	61,741
Groupers	1,262	572	14,074	1,367	620	15,223
Haddock	11,283	5,118	55,970	14,047	6,372	68,292
Hake	42,918	19,467	62,233	47,085	21,358	64,752
Halibut	4,707	2,135	42,793	3,804	1,725	37,550
Lingcod	188	85	908	112	51	571
Ocean perch:						
Atlantic	1,492	677	4,559	1,666	756	5,238
Pacific	770	349	2,722	780	354	2,338
Opah	183	83	1,398	148	67	1,204
Patagonian Toothfish	628	285	11,719	769	349	14,285
Pollock:						
Atlantic	2,456	1,114	7,888	2,063	936	7,102
Alaska	473,488	214,773	714,799	478,685	217,130	711,200
Rockfishes	1,624	737	5,183	1,954	886	6,707
Sablefish	213	97	1,524	199	90	2,664
Salmon	97,263	44,118	530,259	90,971	41,264	541,149
Sea bass	359	163	3,392	191	87	2,096
Sea trout	138	63	874	174	79	1,263
Shark	141	64	475	346	157	1,225
Snapper	745	338	7,458	645	293	7,913
Striped bass	321	146	2,724	161	73	1,783
Swordfish	3,141	1,425	25,591	2,473	1,122	21,992
Tilapia	8,492	3,852	28,221	11,656	5,287	43,001
Tuna	12,639	5,733	232,206	9,589	4,350	94,895
Wahoo	576	261	3,226	347	157	2,097
Wolffish	(2)	(2)	(2)	106	48	844
Yellowtail Jack	181	82	1,225	72	33	348
Unclassified	18,310	8,305	82,188	13,401	6,079	60,663
Total Fillet	775,180	351,619	2,185,594	780,308	353,945	2,054,115
Steaks:						
Halibut	1,042	473	11,223	766	347	8,609
Salmon	634	288	4,453	537	244	3,860
Swordfish	1,731	785	10,695	1,712	777	6,517
Tuna	1,456	660	10,519	846	384	7,992
Unclassified	2,717	1,232	7,492	1,678	761	3,660
Total Steaks	7,580	3,438	44,382	5,539	2,512	30,638
Grand total	782,760	355,058	2,229,976	785,847	356,458	2,084,753

(1) Revised based on additional data.

(2) Included in unclassified.

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

Processed Fishery Products

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 2013 AND 2014

Species	Pounds per case	2013 (1)			2014		
		Standard Cases	Thousand pounds	Thousand dollars	Standard Cases	Thousand pounds	Thousand dollars
For human consumption:							
Fish:							
Herring	23.4	(5)	(5)	(5)	(5)	(5)	(5)
Salmon:							
Chinook	44.25	113	5	55	113	5	55
Chum	44.25	37,853	1,675	3,841	37,853	1,675	3,841
Pink	44.25	3,790,147	167,714	370,786	976,023	43,189	104,352
Coho	44.25	23	1	9	23	1	9
Sockeye	44.25	753,831	33,357	197,130	1,005,672	44,501	245,800
Total salmon		4,581,966	202,752	571,821	2,019,684	89,371	354,057
Specialties	48	7,500	360	2,072	10,167	488	2,673
Sardines, Maine	23.4	(5)	(5)	(5)	(5)	(5)	(5)
Tuna: (2)							
Albacore:							
Solid	18	6,924,667	124,644	333,272	6,226,722	112,081	283,222
Chunk	18	1,522,500	27,405	68,283	1,334,444	24,020	55,792
Total albacore		8,447,167	152,049	401,555	7,561,167	136,101	339,014
Lightmeat:							
Solid	18	608,056	10,945	35,162	679,056	12,223	32,326
Chunk	18	12,254,000	220,572	415,271	13,481,556	242,668	412,112
Total lightmeat		12,862,056	231,517	450,433	14,160,611	254,891	444,438
Total tuna		21,309,222	383,566	851,988	21,721,778	390,992	783,452
Specialties	48	42	2	25	42	2	21
Other	48	833	40	238	854	41	218
Total fish	-	25,899,563	586,720	1,426,144	23,752,524	480,894	1,140,421
Shellfish:							
Clam and clam products: (3)							
Whole and minced	15	1,125,333	16,880	28,650	1,208,867	18,133	32,220
Chowder and juice	30	1,866,533	55,996	61,276	1,952,867	58,586	41,922
Specialties	48	(5)	(5)	(5)	(5)	(5)	(5)
Total clams	-	2,991,867	72,876	89,926	3,161,733	76,719	74,142
Crab meat and specialties	20	3,077	60	210	3,179	62	233
Oyster, specialties	48	(5)	(5)	(5)	(5)	(5)	(5)
Shrimp, natural (4)	6.75	(5)	829	5,105	(5)	643	4,197
Other	48	40,625	1,950	12,200	68,021	3,265	6,452
Total shellfish	-	3,035,569	75,715	107,441	3,232,934	80,689	85,024
Total for human Consumption	-	28,935,132	662,435	1,533,585	26,985,458	561,583	1,225,445
For bait and animal food	48	6,284,563	301,659	246,336	3,564,667	171,104	149,822
Grand total	-	35,219,694	964,094	1,779,921	30,550,124	732,687	1,375,267

(1) Revised based on additional data.

(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.

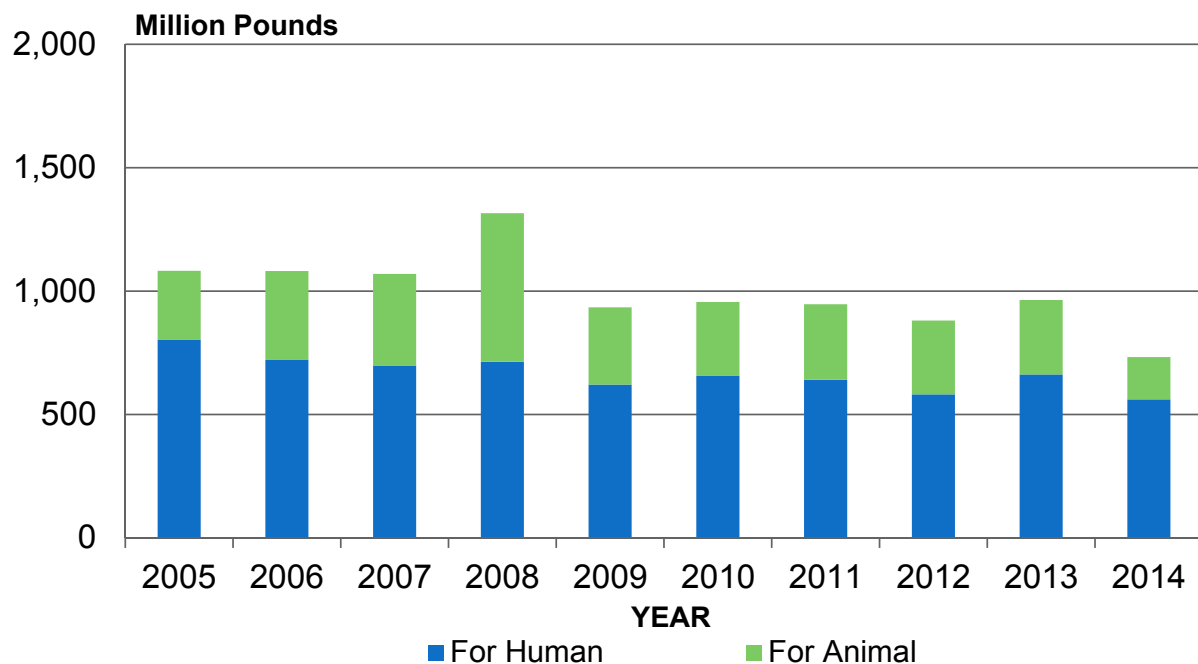
(5) Confidential included with 'Other.'

Processed Fishery Products

PRODUCTION OF CANNED FISHERY PRODUCTS, 2005-2014

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
2005	802,229	363,889	1,081,457	280,268	127,129	129,215	1,082,497	491,017	1,210,672
2006	721,102	327,090	1,100,794	360,241	163,404	229,109	1,081,343	490,494	1,329,903
2007	698,831	316,988	1,090,070	371,032	168,299	233,614	1,069,863	485,287	1,323,684
2008	713,946	323,844	1,191,214	601,678	272,919	231,273	1,315,624	596,763	1,422,487
2009	621,256	281,800	1,190,067	312,887	141,925	217,699	934,143	423,724	1,407,766
2010	656,420	297,750	1,196,346	299,300	135,762	217,583	955,720	433,512	1,413,929
2011	640,917	290,588	1,251,332	305,906	138,209	224,953	946,823	429,476	1,476,285
2012	581,908	263,952	1,373,011	298,667	135,474	241,663	880,575	399,426	1,614,674
2013	662,435	300,478	1,533,585	301,659	135,477	246,336	964,094	437,310	1,779,921
2014	561,583	254,732	1,225,445	171,104	77,612	149,822	732,687	332,345	1,375,267

Production of Canned Fishery Products, 2005-2014



Processed Fishery Products

PRODUCTION OF MEAL AND OIL, 2013 AND 2014

Product	2013			2014		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Dried scrap and meal:						
Fish	507,966	230,412	242,061	514,240	233,258	299,317
Shellfish	91	41	6	400	181	251
Total, scrap and meal	508,057	230,453	242,067	514,640	233,439	299,568
Body oil, total	175,877	79,777	56,642	139,005	63,052	84,600

Note: To convert pounds of oil to gallons divide by 7.75
The above data include products in American Samoa and Puerto Rico

PRODUCTION OF INDUSTRIAL PRODUCTS, 2005-2014

Year	Scrap and meal		Marine animal oil		Meal and oil	Other industrial products	Grand total
	Thousand pounds	Metric tons	Thousand pounds	Metric tons	-----Thousand dollars-----		
2005	565,169	256,359	157,680	71,523	154,335	52,496	206,831
2006	582,900	264,402	142,747	64,750	185,712	61,000	246,712
2007	563,221	255,475	152,205	69,040	277,874	62,025	339,899
2008	492,828	223,545	190,023	86,194	245,240	64,631	309,871
2009	472,805	214,463	168,157	76,276	227,438	61,657	289,095
2010	487,692	221,216	136,362	61,853	218,937	64,040	282,977
2011	620,823	281,603	143,171	64,942	301,462	133,640	435,102
2012	585,565	265,611	115,090	52,204	335,188	162,341	497,529
2013	508,057	230,453	175,877	79,777	298,709	180,073	478,780
2014	514,640	233,439	139,005	63,052	384,168	206,251	590,419

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