

# Processed Fishery Products

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## FRESH AND FROZEN

**FISH FILLETS AND STEAKS.** In 1999 the U.S. production of raw (uncooked) fish fillets and steaks, including blocks, was 369.3 million pounds—53.2 million pounds less than the 422.4 million pounds in 1998. These fillets and steaks were valued at \$834.5 million. Alaska pollock fillets and blocks led all species with 143.8 million pounds—39 percent of the total. Production of groundfish fillets and steaks (see Glossary Section-Groundfish) was 219.0 million pounds.

**FISH STICKS AND PORTIONS.** The combined production of fish sticks and portions was 268.3 million pounds valued at \$332.5 million compared with the 1998 production of 253.5 million pounds valued at \$274.8 million.

The total production of fish sticks amounted to 65.0 million pounds valued at \$63.4 million. The total production of fish portions amounted to 203.3 million pounds valued at \$269.1 million.

**BREADED SHRIMP.** The production of breaded shrimp in 1999 was 119.1 million pounds valued at \$351.9 million, compared with the 1998 production of 109.5 million pounds valued at \$333.3 million.

**FROZEN FISHERY TRADE.** In 1999, stocks of frozen fishery products in cold storage were at a low of 317.4 million pounds on February 28 and a high of 388.2 million pounds on December 31. Cold storage holdings of shrimp products were at a high of 54.2 million pounds on December 31 and a low of 42.0 million pounds on May 31. Holdings of saltwater fillets and steaks reached a high of 76.8 million pounds on November 30 and were at a low of 58.9 million pounds on February 28. Holdings of blocks and slabs were at a high of 62.3 million pounds on January 31 and a low of 37.0 million pounds on March 31. Surimi reached a high of 23.3 million pounds on September 30 and was at a low of 13.1 million pounds on December 31. Analog Products reached a high of 5.8 million pounds on May 31 and a low of 4.1 million pounds on July 31.

## CANNED PRODUCTS

**CANNED FISHERY PRODUCTS.** The pack of canned fishery products in the 50 states, American Samoa, and Puerto Rico was 1.5 billion pounds valued at \$1.8 billion—a decrease of 34.1 million pounds, but an increase of \$172.5 million compared with the 1998

pack. The 1999 pack included 986.6 million pounds valued at \$1.4 billion for human consumption and 544.3 million pounds valued at \$349.8 million for bait and animal food.

**CANNED SALMON.** The 1999 U.S. pack of salmon was 162.5 million pounds valued at \$273.5 million, compared with 162.1 million pounds valued at \$252.8 million packed in 1998.

**CANNED SARDINES.** The pack of Maine sardines (small herring) was 11.8 million pounds valued at \$19.5 million, a decrease of 4.1 million pounds and \$9.5 million compared with 1998. There were 3.7 million pounds of herring valued at \$6.6 million packed in 1999 — a decrease of 2.2 million pounds and \$4.6 million than the 1998 pack.

**CANNED TUNA.** The U.S. pack of tuna was 680.9 million pounds valued at \$983.0 million—an increase of 53.8 million pounds in quantity and \$64.3 million in value compared with the 1998 pack. The pack of albacore tuna was 196.8 million pounds—11.5 million pounds more than the 185.3 million pounds produced in 1998. Albacore tuna comprised 30 percent of the tuna pack in 1999. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 484.1 million pounds—42.4 million pounds more than the 441.7 million pounds packed in 1998.

**CANNED CLAMS.** The 1999 U.S. pack of clams (whole, minced, chowder, juice, and specialties) was 113.4 million pounds valued at \$104.9 million—a decrease of 11.5 million pounds and \$9.7 million less in value than in 1998. The pack of whole and minced clams was 36.6 million pounds—7.0 million pounds less than 1998 accounting for 32 percent of the total clam pack. Clam chowder and clam juice was 67.1 million pounds and made up the majority of the pack.

**OTHER CANNED ITEMS.** The pack of pet food was 544.3 million pounds valued at \$349.8 million—a decrease of 68.0 million pounds compared with 1998.

## INDUSTRIAL FISHERY PRODUCTS

**INDUSTRIAL FISHERY PRODUCTS.** The value of the domestic production of industrial fishery products was \$268.2 million—an increase of \$34.8 million compared with the 1998 value of \$233.4 million.

**FISH MEAL.** The domestic production of fish and shellfish meal was 686.2 million pounds valued at

# Processed Fishery Products

\$147.0 million--an increase of 72.8 million pounds, and \$30.0 million compared with 1998. Fish meal production was 671.8 million pounds valued at \$146.1 million -- an increase of 77.0 million pounds and \$30.3 million from the 1998 production. Shellfish meal production was 14.5 million pounds--a decrease of 4.2 million pounds from the 1998 level.

FISH OILS. The domestic production of fish oils was 286.2 million pounds valued at \$41.9 million--an

increase of 63.5 million pounds but a decrease of \$13.7 million in value compared with 1998 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, pearl essence, and mussel shell buttons were valued at \$79.3 million, compared with \$60.8 million in 1998--an increase of \$18.5 million.

**VALUE OF PROCESSED FISHERY PRODUCTS, 1998 AND 1999**  
(Processed from domestic catch and imported products)

Item	1998 (1)		1999	
	<u>Thousand dollars</u>	<u>Percent of total</u>	<u>Thousand dollars</u>	<u>Percent of total</u>
<b>Edible:</b>				
Fresh and frozen	5,224,437	71	5,051,343	69
Canned	1,425,564	19	1,527,215	21
Cured	132,257	2	151,802	2
<b>Total edible</b>	<b>6,782,258</b>	<b>92</b>	<b>6,730,360</b>	<b>92</b>
<b>Industrial:</b>				
Bait and animal food (canned)	349,765	5	339,548	5
Meal and oil	172,574	2	188,854	3
Other	60,800	1	79,325	1
<b>Total industrial</b>	<b>583,139</b>	<b>8</b>	<b>607,727</b>	<b>8</b>
<b>Grand total</b>	<b>7,365,397</b>	<b>100</b>	<b>7,338,087</b>	<b>100</b>

(1) Revised. May not add due to rounding. Value is based on selling price at the plant.

**U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1990-99**

Year	Fish sticks			Fish portions			Breaded shrimp		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
1990	65,209	29,579	74,866	242,776	110,122	352,589	110,760	50,240	353,265
1991	63,286	28,706	77,877	204,697	92,850	313,400	116,335	52,769	335,880
1992	58,295	26,442	56,020	194,307	88,137	296,214	122,266	55,459	350,497
1993	67,959	30,826	67,975	206,165	93,516	313,195	111,489	50,571	316,722
1994	58,789	26,667	51,429	196,289	89,036	268,353	113,461	51,466	304,931
1995	74,066	33,596	73,478	251,217	113,951	356,518	100,522	45,596	299,355
1996	65,244	29,594	55,802	213,962	97,053	306,501	108,486	49,209	341,770
1997	69,167	31,374	64,298	195,554	88,703	285,348	117,471	53,284	334,939
1998	68,778	31,197	63,473	184,681	83,771	211,356	109,481	49,660	333,257
1999	65,019	29,492	63,396	203,279	92,207	269,125	119,149	54,046	351,891

# Processed Fishery Products

## PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1998 AND 1999

Species	1998			1999		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
<b>Fillets:</b>						
Amberjack	397	180	1,445	157	71	673
Anglerfish	5,185	2,352	14,416	2,642	1,198	8,764
Bluefish	151	68	335	136	62	354
Cod	66,644	30,230	161,047	61,401	27,851	108,646
Cusk	98	44	331	115	52	383
Dolphin	4,230	1,919	19,107	3,505	1,590	15,785
Drum	133	60	478	58	26	219
Flounders	23,558	10,686	69,548	23,765	10,780	68,334
Groupers	2,980	1,352	16,038	1,766	801	11,663
Haddock	5,721	2,595	22,028	4,818	2,185	20,455
Hake	15,436	7,002	9,187	4,977	2,258	6,991
Halibut	4,868	2,208	21,922	4,032	1,829	21,308
Lingcod	480	218	1,759	471	214	1,747
Marlins	367	166	890	612	278	1,726
Ocean perch:						
Atlantic	616	279	1,918	738	335	2,445
Pacific	1,781	808	3,559	1,456	660	3,088
Pollock:						
Atlantic	3,596	1,631	7,148	1,644	746	3,725
Alaska	161,399	73,210	189,745	143,821	65,237	168,507
Rockfishes	15,942	7,231	32,794	12,468	5,655	24,592
Sablefish	426	193	1,517	310	141	866
Salmon	28,202	12,792	85,758	28,477	12,917	81,040
Sea bass	658	298	3,766	586	266	4,145
Sea trout	222	101	856	215	98	872
Shark	1,823	827	5,120	1,085	492	2,486
Snapper	2,522	1,144	16,206	1,510	685	9,632
Swordfish	9,777	4,435	51,888	9,525	4,321	48,062
Tilapia	1,519	689	4,329	629	285	1,791
Tuna	11,621	5,271	75,762	11,992	5,440	79,932
Wahoo	257	117	1,332	269	122	1,354
Whitefish	980	445	2,549	921	418	2,486
Wolffish	86	39	239	82	37	202
Unclassified	19,474	8,833	63,662	19,066	8,648	61,695
<b>Total</b>	<b>391,149</b>	<b>177,424</b>	<b>886,679</b>	<b>343,249</b>	<b>155,697</b>	<b>763,968</b>
<b>Steaks:</b>						
Halibut	6,471	2,935	24,019	6,744	3,059	27,199
Salmon	1,197	543	2,828	1,244	564	3,062
Shark	27	12	78	56	25	168
Swordfish	4,058	1,841	16,468	3,192	1,448	13,233
Tuna	4,615	2,093	15,917	4,993	2,265	17,307
Unclassified	14,901	6,759	14,939	9,782	4,437	9,594
<b>Total</b>	<b>31,269</b>	<b>14,184</b>	<b>74,249</b>	<b>26,011</b>	<b>11,799</b>	<b>70,563</b>
<b>Grand total</b>	<b>422,418</b>	<b>191,608</b>	<b>960,928</b>	<b>369,260</b>	<b>167,495</b>	<b>834,531</b>

(1) Revised.

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

# Processed Fishery Products

## PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1998 AND 1999

Species	Pounds per case	1998			1999		
		Standard cases	Thousand pound	Thousand dollars	Standard cases	Thousand pound	Thousand dollars
<b>For human consumption:</b>							
<b>Fish:</b>							
Herring	23.4	158,291	3,704	6,612	158,846	3,717	6,709
<b>Salmon:</b>							
Chinook	44.25	362	16	103	2,644	117	290
Chum	44.25	212,271	9,393	8,711	171,322	7,581	6,079
Pink	44.25	2,672,136	118,242	153,008	3,904,068	172,755	195,269
Coho	44.25	36,000	1,593	3,288	42,305	1,872	3,834
Sockeye	44.25	667,887	29,554	108,420	1,171,299	51,830	187,600
<b>Total salmon</b>		<b>3,588,655</b>	<b>158,798</b>	<b>273,530</b>	<b>5,291,638</b>	<b>234,155</b>	<b>393,072</b>
Specialties	48	13,229	635	4,770	13,188	633	6,526
Sardines, Maine	23.4	506,068	11,842	19,488	513,547	12,017	20,107
<b>Tuna: (2)</b>							
<b>Albacore:</b>							
Solid	18	9,065,944	163,187	330,348	10,061,333	181,104	349,891
Chunk	18	1,867,000	33,606	60,604	1,784,389	32,119	61,731
<b>Total albacore</b>		<b>10,932,944</b>	<b>196,793</b>	<b>390,952</b>	<b>11,845,722</b>	<b>213,223</b>	<b>411,622</b>
<b>Lightmeat:</b>							
Solid	18	502,833	9,051	13,962	624,389	11,239	16,536
Chunk	18	26,389,778	475,016	578,108	24,700,944	444,617	517,623
<b>Total lightmeat</b>		<b>26,892,611</b>	<b>484,067</b>	<b>592,070</b>	<b>25,325,333</b>	<b>455,856</b>	<b>534,159</b>
<b>Total tuna</b>		<b>37,825,556</b>	<b>680,860</b>	<b>983,022</b>	<b>37,171,056</b>	<b>669,079</b>	<b>945,781</b>
Specialties	48	542	26	179	563	27	173
Other	48	305,813	14,679	17,302	322,833	15,496	18,269
<b>Total fish</b>	--	<b>42,398,153</b>	<b>870,544</b>	<b>1,304,903</b>	<b>43,471,670</b>	<b>935,124</b>	<b>1,390,637</b>
<b>Shellfish:</b>							
<b>Clam and clam products: (3)</b>							
Whole and minced	15	2,442,533	36,638	54,205	2,826,933	42,404	64,182
Chowder and juice	30	2,235,733	67,072	41,420	2,447,600	73,428	39,512
Specialties	48	201,250	9,660	9,275	168,167	8,072	6,820
<b>Total clams</b>	--	<b>4,879,517</b>	<b>113,370</b>	<b>104,900</b>	<b>5,442,700</b>	<b>123,904</b>	<b>110,514</b>
Crabs, natural	20	3,436	67	442	39,026	761	5,139
Lobster meat and specialties	48	9,188	441	525	9,729	467	525
Oyster, specialties	48	667	32	81	1,042	50	110
Shrimp, natural (4)	6.75	333,778	2,253	10,884	289,630	1,955	9,639
Other	48	41,375	1,986	3,829	302,313	14,511	10,651
<b>Total shellfish</b>	--	<b>5,267,960</b>	<b>118,149</b>	<b>120,661</b>	<b>6,084,439</b>	<b>141,648</b>	<b>136,578</b>
<b>Total for human consumption</b>	--	<b>47,666,113</b>	<b>988,693</b>	<b>1,425,564</b>	<b>49,556,109</b>	<b>1,076,772</b>	<b>1,527,215</b>
<b>For bait and animal food</b>	48	11,340,167	544,328	349,765	16,599,354	796,769	339,548
<b>Grand total</b>	--	<b>59,006,279</b>	<b>1,533,021</b>	<b>1,775,329</b>	<b>66,155,463</b>	<b>1,873,541</b>	<b>1,866,763</b>

(1) Revised.

(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.

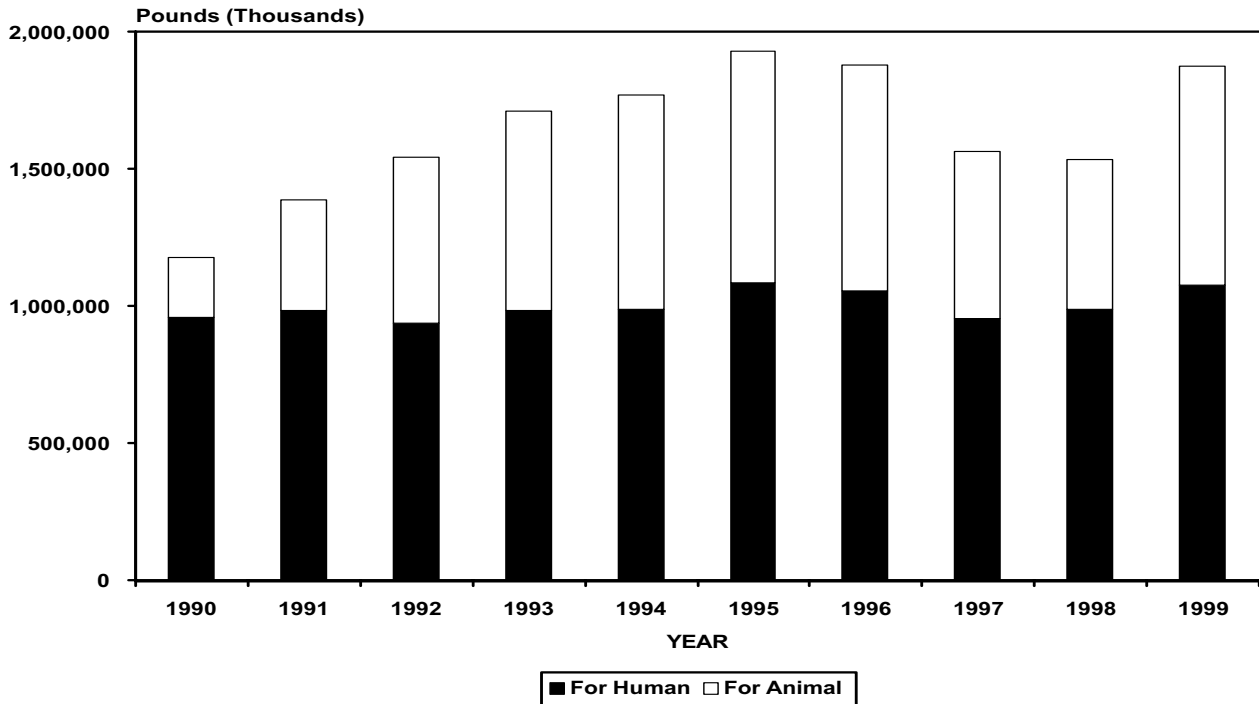
(4) Drained weight.

# Processed Fishery Products

**PRODUCTION OF CANNED FISHERY PRODUCTS, 1990-99**

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
1990	956,962	434,075	1,414,846	221,320	100,390	146,947	1,178,282	534,465	1,561,793
1991	981,275	445,103	1,439,362	404,440	183,453	204,917	1,385,715	628,556	1,644,279
1992	936,117	424,620	1,330,173	607,678	275,641	247,261	1,543,795	700,261	1,577,434
1993	983,225	445,988	1,375,377	725,822	329,231	312,597	1,709,047	775,219	1,687,974
1994	985,675	447,099	1,470,234	782,272	354,836	325,264	1,767,947	801,935	1,795,498
1995	1,084,866	492,092	1,544,208	842,351	382,088	342,842	1,927,217	874,180	1,887,050
1996	1,052,909	477,596	1,428,937	824,094	373,807	370,945	1,877,003	851,403	1,799,882
1997	952,755	432,167	1,361,437	612,320	277,747	231,756	1,565,075	709,913	1,593,193
1998	988,693	448,468	1,425,564	544,328	246,906	349,765	1,533,021	695,374	1,775,329
1999	1,076,772	488,421	1,527,215	796,769	361,412	339,548	1,873,541	849,833	1,866,763

**Production of Canned Fishery Products, 1990-99**



# Processed Fishery Products

## PRODUCTION OF MEAL AND OIL, 1998 AND 1999

Product	1998			1999		
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand dollars</u>
<b>Dried scrap and meal:</b>						
Fish	594,764	269,783	115,792	671,794	304,724	146,140
Shellfish	18,670	8,469	1,171	14,456	6,557	830
<b>Total, scrap and meal</b>	<b>613,434</b>	<b>278,252</b>	<b>116,963</b>	<b>686,250</b>	<b>311,281</b>	<b>146,970</b>
<b>Body oil, total</b>	<b>222,697</b>	<b>101,015</b>	<b>55,611</b>	<b>286,182</b>	<b>129,811</b>	<b>41,884</b>

Note:--To convert pounds of oil to gallons divide by 7.75.

The above data includes products in American Samoa and Puerto Rico.

## PRODUCTION OF INDUSTRIAL PRODUCTS, 1990-99

Year	Scrap and meal		Marine animal oil		Meal, and oil	Other industrial products	Grand total
	<u>Thousand pounds</u>	<u>Metric tons</u>	<u>Thousand pounds</u>	<u>Metric tons</u>			
	----- Thousand dollars -----						
1990	577,498	261,951	281,949	127,891	163,796	42,759	206,555
1991	612,716	277,926	267,345	121,267	170,495	37,707	208,202
1992	644,512	292,349	184,725	83,791	157,693	45,310	203,003
1993	750,744	340,535	293,452	133,109	182,170	43,689	225,859
1994	807,833	366,431	291,882	132,397	186,222	61,992	248,214
1995	667,240	302,658	241,941	109,744	172,279	74,264	246,543
1996	643,124	291,719	248,399	112,673	187,968	85,583	273,551
1997	724,668	328,707	283,379	128,540	229,222	118,128	347,350
1998	613,434	278,252	222,697	101,015	172,574	60,800	233,374
1999	686,250	311,281	286,182	129,811	188,854	79,325	268,179

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