FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 2013 the U.S. production of raw (uncooked) fish fillets and steaks, including blocks, was 753.1 million pounds—61.3 million pounds more than the 691.8 million pounds in 2012 due to increases in cod, hake, and Alaska Pollock fillets. There were also increases in tilapia, sablefish and amberjack fillets as well as halibut, salmon and tuna steaks. All fillets and steaks were valued at \$2.1 billion. Alaska pollock fillets and blocks continue to lead all species with 473 million pounds—and increase from the 415 million pounds in 2012 and representing 64 percent of the total. Production of groundfish fillets and steaks (see Glossary Section-Groundfish) was 601.3 million pounds, an increase of 84.6 million pounds from 2012.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 185.5 million pounds valued at \$309.2 million compared with the 2012 production of 209.9 million pounds valued at \$346.9 million. The total production of fish sticks amounted to 58.0 million pounds valued at \$86.3 million. The total production of fish portions amounted to 127.5 million pounds valued at \$222.9 million.

BREADED SHRIMP. The production of breaded shrimp in 2013 was 104.9 million pounds valued at \$297.3 million. This represents an increase from the 2012 production of 79.7 million pounds valued at \$193.8 million.

CANNED PRODUCTS

CANNED FISHERY PRODUCTS. The pack of canned fishery products in the 50 states, American Samoa, and Puerto Rico was 961.1 million pounds valued at \$1.8 billion—an increase in volume of 80.5 million pounds and an increase in value of 160.5 million dollars compared to 2012. The 2013 pack included 662.4 million pounds with a value of \$1.5 billion for human consumption and 298.7 million pounds valued at \$241.5 million for bait and animal food.

CANNED SALMON. The 2013 U.S. pack of salmon was 202.8 million pounds valued at \$571.8 million, increases in volume and value from the 2012 levels of 120.0 million pounds and \$410.4.

CANNED TUNA. The U.S. pack of tuna was 383.6 million pounds valued at \$852 million—a decrease of 3.5 million pounds in quantity and of \$34.1 million in value compared with the 2012 pack. The pack of albacore tuna was 152.0 million pounds comprising 40 percent of the tuna pack in 2013. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 231.5 million pounds.

CANNED CLAMS. The 2013 U.S. pack of clams (whole, minced, chowder, juice, and specialties) was 72.9 million pounds valued at \$89.9 million. The pack of whole and minced clams was 16.8 million pounds. Clam chowder and clam juice was 56 million pounds and made up the majority of the pack.

OTHER CANNED ITEMS. The pack of pet food and bait was 298.7 million pounds valued at \$241.5 million—a slight increase in volume and a decrease in value from the 2012 levels of 298.6 million pounds worth \$241.7 million.

INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of industrial fishery products was \$478.8 million—a decrease of \$18.7 million compared with the 2012 value.

FISH MEAL. The domestic production of fish and shellfish meal was 508.1 million pounds valued at \$242.1 million—a decrease of 77.5 million pounds and of \$37.9 million compared with 2012. Most of this production was fish meal (508 million pounds) while shellfish meal production was 91 thousand pounds—a decrease of 401 thousand pounds from the 2012 level.

FISH OILS. The domestic production of fish oils was 175.9 million pounds (approximately 22.7 million gallons) valued at \$56.6 million—an increase of 60.8 million pounds and of \$1.4 million in value compared with 2012 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 \$180.1 million.

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 quantity 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 NOAA Fisheries 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 is 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.

VALUE OF PROCESSED FISHERY PRODUCTS, 2012 AND 2013

(Processed from domestic catch and imported products)

| | 2012 (1 | l) | 2013 | | | |
|----------------------|------------------|------------------|------------------|------------------|--|--|
| Item | Thousand dollars | Percent of total | Thousand dollars | Percent of total | | |
| Edible: | | | | | | |
| Fresh and frozen | 8,468,186 | 78 | 8,412,200 | 78 | | |
| Canned | 1,373,011 | 13 | 1,533,579 | 14 | | |
| Cured | 202,449 | 2 | 119,628 | 1 | | |
| Total edible | 10,043,646 | 93 | 10,065,407 | 93 | | |
| Industrial: | | | | | | |
| Bait and animal food | 259,244 | 2 | 277,910 | 3 | | |
| Meal and oil | 335,188 | 3 | 298,707 | 3 | | |
| Other | 156,079 | 1 | 172,512 | 2 | | |
| Total industrial | 750,511 | 7 | 749,129 | 7 | | |
| Grand total | 10,794,157 | 100 | 10,814,536 | 100 | | |

⁽¹⁾ Revised. Value is based on selling price at the plant.

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 2004-2013

| | Fish sticks | | F | Fish portions | | | Breaded shrimp | | | |
|------|-----------------|-------------|------------------|-----------------|-------------|------------------|-----------------|-------------|------------------|--|
| Year | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds | Metric tons | Thousand dollars | |
| 2004 | 59,697 | 27,078 | 71,419 | 138,125 | 62,653 | 208,579 | 110,462 | 50,105 | 306,456 | |
| 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 | 58,020 | 26,318 | 86,278 | 127,500 | 57,834 | 222,878 | 104,907 | 47,586 | 297,347 | |

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 2012 AND 2013

| | | 2012 (1) | O, ZOIZ AND | | 2013 | |
|----------------------|-----------------|-------------|------------------|-----------------|-------------|------------------|
| Species | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds | Metric tons | Thousand dollars |
| Fillets: | | | • | | • | |
| Amberjack | 89 | 40 | 704 | 309 | 140 | 3,430 |
| Anglerfish | 335 | 152 | 2,311 | 517 | 235 | 2,719 |
| Bluefish | 99 | 45 | 404 | 110 | 50 | 378 |
| Cobia | 25 | 11 | 268 | 48 | 22 | 478 |
| Cod | 63,870 | 28,971 | 216,257 | 69,398 | 31,479 | 232,486 |
| Cusk | 11 | 5 | 42 | 6 | 3 | 17 |
| Dolphinfish | 3,624 | 1,644 | 24,545 | 3,848 | 1,745 | 25,208 |
| Flounders | 16,114 | 7,309 | 51,192 | 14,071 | 6,383 | 60,659 |
| Groupers | 1,264 | 573 | 12,265 | 1,247 | 566 | 13,855 |
| Haddock | 10,661 | 4,836 | 53,657 | 11,207 | 5,083 | 55,710 |
| Hake | 23,139 | 10,496 | 34,387 | 42,897 | 19,458 | 62,197 |
| Halibut | 4,519 | 2,050 | 37,727 | 3,873 | 1,757 | 35,463 |
| Lingcod | 169 | 77 | 840 | 188 | 85 | 908 |
| Ocean perch: | | | | | | |
| Atlantic | 1,060 | 481 | 4,476 | 1,492 | 677 | 4,557 |
| Pacific | 464 | 210 | 1,382 | 770 | 349 | 2,722 |
| Opah | 218 | 99 | 1,898 | 154 | 70 | 1,193 |
| Patagonian Toothfish | 435 | 197 | 7,221 | 556 | 252 | 10,187 |
| Pollock: | | | | | | , |
| Atlantic | 2,433 | 1,104 | 7,792 | 2,449 | 1,111 | 7,844 |
| Alaska | 415,089 | 188,283 | 642,523 | 473,096 | 214,595 | 713,722 |
| Rockfishes | 2,447 | 1,110 | 7,945 | 1,620 | 735 | 5,167 |
| Sablefish | 94 | 43 | 935 | 213 | 97 | 1,524 |
| Salmon | 106,651 | 48,377 | 485,623 | 78,416 | 35,569 | 446,410 |
| Sea bass | 286 | 130 | 2,859 | 358 | 162 | 3,371 |
| Sea trout | 143 | 65 | 851 | 138 | 63 | 873 |
| Shark | 65 | 29 | 219 | 138 | 63 | 463 |
| Snapper | 659 | 299 | 6,556 | 573 | 260 | 6,547 |
| Striped bass | 171 | 78 | 1,616 | 236 | 107 | 2,025 |
| Swordfish | 2,526 | 1,146 | 20,603 | | 1,324 | 23,672 |
| Tilapia | 7,576 | 3,436 | 25,521 | | 3,654 | 26,422 |
| Tuna | 11,310 | 5,130 | 101,907 | | 4,634 | 209,066 |
| Wahoo | 286 | 130 | 2,406 | 519 | 235 | 2,860 |
| Wolffish | (2) | (2) | (2) | (2) | (2) | (2) |
| Yellowtail Jack | 149 | 68 | 1,040 | 78 | 35 | 424 |
| Unclassified | 10,865 | 4,928 | 59,950 | 15,830 | 7,180 | 66,855 |
| Officiassified | 10,003 | 4,320 | 33,330 | 10,000 | 7,100 | 00,033 |
| Total Fillet | 686,844 | 311,550 | 1,817,920 | 745,544 | 338,177 | 2,029,410 |
| Steaks: | | | | | | |
| Halibut | 839 | 381 | 9,931 | 1,042 | 473 | 11,220 |
| Salmon | 30 | 14 | 183 | 634 | 288 | 4,453 |
| Swordfish | 1,058 | 480 | 6,279 | 1,731 | 785 | 10,694 |
| Tuna | 703 | 319 | 6,609 | 1,751 | 660 | 10,694 |
| Unclassified | 2,290 | 1,039 | 3,031 | 2,717 | 1,232 | 7,491 |
| Unclassified | 2,290 | 1,039 | 3,031 | ۷,/۱/ | 1,232 | 7,491 |
| Total Steaks | 4,920 | 2,232 | 26,033 | 7,579 | 3,438 | 44,367 |
| Grand total | 691,764 | 313,782 | 1,843,953 | 753,123 | 341,614 | 2,073,777 |

⁽¹⁾ Revised

⁽²⁾ Included in unclassified.

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

PRODUCTION OF CANNED FISHERY PRODUCTS, **BY SPECIES, 2012 AND 2013**

| | Pounds | 2012 (1) | | | | 2013 | |
|-----------------------------|--------|------------|----------|-----------|------------|----------|-----------|
| Species | per | Standard | Thousand | Thousand | Standard | Thousand | Thousand |
| | case | Cases | pounds | dollars | Cases | pounds | dollars |
| For human consumption: | | - | | | | | |
| Fish: | | | | | | | |
| Herring | 23.4 | (5) | (5) | (5) | (5) | (5) | (5) |
| Salmon: | | | | | | | |
| Chinook | 44.25 | 158 | 7 | 90 | 113 | 5 | 54 |
| Chum | 44.25 | 3,141 | 139 | 301 | 37,853 | 1,675 | 3,841 |
| Pink | 44.25 | 1,700,362 | 75,241 | 189,715 | 3,790,147 | 167,714 | 370,786 |
| Coho | 44.25 | 23 | 1 | 9 | 23 | 1 | 9 |
| Sockeye | 44.25 | 1,008,678 | 44,634 | 220,290 | 753,831 | 33,357 | 197,130 |
| Total salmon | | 2,712,362 | 120,022 | 410,405 | 4,581,966 | 202,752 | 571,820 |
| Specialties | 48 | 7,583 | 364 | 1,613 | 7,500 | 360 | 2,071 |
| Sardines, Maine | 23.4 | (5) | (5) | (5) | (5) | (5) | (5) |
| Tuna: (2) | | | | | | | |
| Albacore: | | | | | | | |
| Solid | 18 | 7,150,833 | 128,715 | 382,139 | 6,924,611 | 124,643 | 333,269 |
| Chunk | 18 | 1,684,611 | 30,323 | 72,907 | 1,522,500 | 27,405 | 68,283 |
| Total albacore | | 8,835,444 | 159,038 | 455,046 | 8,447,111 | 152,048 | 401,552 |
| Lightmeat: | | | | | | | |
| Solid | 18 | 440,389 | 7,927 | 23,634 | 608,056 | 10,945 | 35,162 |
| Chunk | 18 | 12,225,444 | 220,058 | 407,389 | 12,254,000 | 220,572 | 415,271 |
| Total lightmeat | | 12,665,833 | 227,985 | 431,023 | 12,862,056 | 231,517 | 450,433 |
| Total tuna | | 21,501,278 | 387,023 | 886,069 | 21,309,167 | 383,565 | 851,985 |
| Specialties | 48 | 42 | 2 | 25 | 42 | 2 | 25 |
| Other | 48 | 3,958 | 190 | 260 | 833 | 40 | 237 |
| Total fish | - | 24,225,223 | 507,601 | 1,298,372 | 25,899,508 | 586,719 | 1,426,138 |
| Shellfish: | | | | | | | |
| Clam and clam products: (3) | | | | | | | |
| Whole and minced | 15 | 1,148,733 | 17,231 | 27,317 | 1,125,333 | 16,880 | 28,650 |
| Chowder and juice | 30 | 1,836,000 | 55,080 | 39,032 | 1,866,533 | 55,996 | 61,276 |
| Specialties | 48 | (5) | (5) | (5) | (5) | (5) | (5) |
| Total clams | _ | 2,984,733 | 72,311 | 66,349 | 2,991,867 | 72,876 | 89,926 |
| Crab meat and specialties | 20 | 13,385 | 261 | 1,995 | 3,077 | 60 | 209 |
| Oyster, specialties | 48 | (5) | (5) | (5) | (5) | (5) | (5) |
| Shrimp, natural (4) | 6.75 | (5) | (5) | (5) | (5) | (5) | (5) |
| Other | 48 | 36,146 | 1,735 | 6,295 | 57,896 | 2,779 | 17,305 |
| Total shellfish | _ | 3,034,264 | 74,307 | 74,639 | 3,052,839 | 75,715 | 107,440 |
| Total for human | | | | | | • | |
| consumption | _ | 27,259,486 | 581,908 | 1,373,011 | 28,952,347 | 662,434 | 1,533,578 |
| For bait and animal food | 48 | 6,222,229 | 298,667 | 241,663 | 6,222,354 | 298,673 | 241,547 |
| Grand total | _ | 33,481,716 | 880,575 | 1,614,674 | 35,174,701 | 961,107 | 1,775,125 |

⁽¹⁾ Revised.

⁽²⁾ Flakes included with chunk.

^{(3) &}quot;Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products.

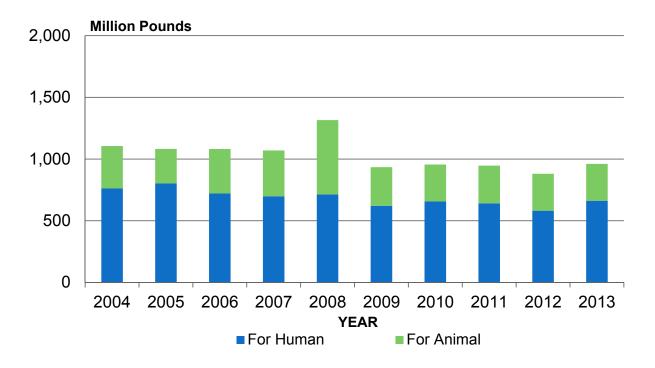
⁽⁴⁾ Drained weight.

⁽⁵⁾ Confidential included with 'Other.'

PRODUCTION OF CANNED FISHERY PRODUCTS, 2004-2013

| | For human consumption | | For ani | mal food a | nd bait | Total | | | |
|------|-----------------------|-------------|------------------|--------------------|-------------|------------------|--------------------|-------------|------------------|
| Year | Thousand Pounds | Metric Tons | Thousand dollars | Thousand Pounds | Metric Tons | Thousand dollars | Thousand Pounds | Metric Tons | Thousand dollars |
| 2004 | 761,562 | 345,442 | 966,715 | 343,895 | 155,990 | 133,038 | 1,105,457 | 501,432 | 1,099,753 |
| 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 | 662,434 | 300,478 | 1,533,578 | 298,673 | 135,477 | 241,547 | 961,107 | 435,955 | 1,775,125 |

Production of Canned Fishery Products, 2004-2013



PRODUCTION OF MEAL AND OIL, 2012 AND 2013

| | | 2012 | | 2013 | | | |
|-----------------------|-----------------|-------------|------------------|-----------------|-------------|------------------|--|
| Product | Thousand pounds | Metric tons | Thousand dollars | Thousand pounds | Metric tons | Thousand dollars | |
| Dried scrap and meal: | | | | | | | |
| Fish | 585,073 | 265,387 | 279,824 | 507,965 | 230,411 | 242,059 | |
| Shellfish | 492 | 223 | 147 | 91 | 41 | 6 | |
| | | | | | | | |
| Total, scrap and meal | 585,565 | 265,611 | 279,971 | 508,056 | 230,453 | 242,065 | |
| | | | | | | | |
| Body oil, total | 115,090 | 52,204 | 55,217 | 175,876 | 79,777 | 56,642 | |

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, 2004-2013

| Year | Scrap and | meal | Marine animal oil Thousand pounds Metric tons | | Meal and oil | Other industrial products | Grand total |
|------|-----------------|-------------|--------------------------------------------------|--------|--------------|---------------------------|----------------|
| | Thousand pounds | Metric tons | | | | Thousand dollars | S |
| 2004 | 571,012 | 259,009 | 179,400 | 81,375 | 187,801 | 14,642 | 202,443 |
| 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 | 508,056 | 230,453 | 175,876 | 79,777 | 298,707 | 180,073 | 478,780 |

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