

STOCK ASSESSMENT AND FISHERY EVALUATION REPORT FOR THE  
GROUND FISH FISHERIES OF THE GULF OF ALASKA AND BERING  
SEA/ALEUTIAN ISLANDS AREA:

ECONOMIC STATUS OF THE GROUND FISH FISHERIES OFF ALASKA, 2014

by

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The authors of the Groundfish SAFE Economic Status Report invite users to provide feedback regarding the quality and usefulness of the Report and recommendations for improvement. AFSC's Economic and Social Sciences Research Program staff have begun an initiative to revise the SAFE Economic Status Reports for Alaska Groundfish and BSAI Crab to incorporate additional analytical content and synthesis, improve online accessibility of public data in electronic formats, and otherwise improve the utility of the reports to users. We welcome any and all comments and suggestions for improvements to the SAFE Economic Status Reports, and have developed an online survey to facilitate user feedback. The survey is available at:

[http://www.afsc.noaa.gov/REFM/Socioeconomics/Contact/SAFE\\_survey.php](http://www.afsc.noaa.gov/REFM/Socioeconomics/Contact/SAFE_survey.php)

This report will be available at:

<http://www.afsc.noaa.gov/refm/docs/2015/economic.pdf>

Time series of data for the tables presented in this report (in CSV format) are available at:

<http://www.afsc.noaa.gov/refm/Socioeconomics/SAFE/groundfish.php#data>

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Dear Reader,

**This preliminary report of the “Economic Status of the Groundfish Fisheries Off Alaska” is compiled for the express purpose of the Sept. 2015 meeting of the Groundfish Plan Teams. A final draft of this report will be prepared for the Nov. 2015 meeting of the Groundfish Plan Team. The data contained within this report are the most recent data available. At the time this report was compiled, data continue to be finalized and validated. In some cases, numbers in the final draft of this report may change from those presented in this preliminary draft. As we finalize and validate the data in this report Economic and Social Sciences Research Program welcomes any feedback from readers regarding data.**

Thank you,  
Alaska Fisheries Science Center,  
Economic and Social Sciences Research Program

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## 1. EXECUTIVE SUMMARY

The commercial groundfish fishery off Alaska catch totaled 2.3 million tons (t) in 2014 (including catch in federal and state waters). This amount was up 4.2% from 2013, and was roughly five times larger than the combined catch of Alaska's other commercial domestic species (Fig. 1 and Table 1). Groundfish accounted for 85% of Alaska's 2014 total catch, which was slightly greater than typical because of lower Pacific salmon catch (Table 1A), reduced halibut catches (Table H1A) and increased Gulf of Alaska groundfish harvest. In addition, the groundfish fishery off Alaska is an important segment of the U.S. fishing industry. In 2013, it accounted for 48% of the weight of total U.S. domestic landings (Fisheries of the United States, 2013)

Alaska's FMP fisheries can be broadly divided into two sectors: catcher vessels which deliver their harvest to shoreside processors, and the at-sea processing sector, whose processed product sells directly to the first-wholesale market. In 2014, catcher vessels accounted for 49% of the ex-vessel value of the groundfish landings compared to 45% of the total catch because catcher vessels take larger percentages of higher-priced species such as sablefish (Table 18). The ex-vessel value of the at-sea sector is imputed from observed first-wholesale value to exclude the value added by at-sea processing.

Total catches of FMP groundfish fisheries increased for the majority of species (complexes) in 2014 (Table 2).<sup>1</sup> Alaska pollock, Pacific cod and rockfish complex catches increased 5%, 1% and 7% respectively, with a notably large 70% increase in Atka mackerel. Sablefish total catch decreased 15% and total catch in the flatfish complex decreased 1%. The contributions of the major groundfish species or species groups to the total catch are depicted in Fig. 1. Alaska pollock, the dominant species in terms of catch, accounted for 65% of FMP groundfish with a catch of 1.4 million t (Table 2). The majority of the Alaska pollock harvest occurs in the Bering Sea and Aleutian Islands (BSAI) (90% in 2014) where catches increased slightly over last year. However, the 50% increase in Gulf of Alaska (GOA) pollock brought catches in that region to the highest level observed over the last decade. The second most abundantly harvested species in Alaska is Pacific cod with a catch of 297 thousand t in 2014. Changes in Pacific cod total catches differed regionally as catch increased significantly in the GOA but not the BSAI. Rockfish catch totaled 62 thousand t in 2014 and increased most notably in the GOA Pacific ocean perch fishery (Table R1). The 2014 increase in Atka mackerel total catch to 29 thousand t comes after a precipitous decrease in 2013 catches, and in 2014 remained below the 2010-2012 average. Sablefish catch was 11 thousand t in 2014, down from 13 thousand t in 2013 with the decrease occurring in the GOA. The flatfish total catch decrease was concentrated in the BSAI, with the rock sole trawl catch decreasing by 13% (Table 4). GOA flatfish catches increased significantly, which was most notable in the arrowtooth trawl fishery where catch increased 70% (Table 3). The increase in halibut prohibited species catch (PSC) in 2014 appears to be largely attributable to the increased catch of GOA arrowtooth as flatfish PSC rates did not change appreciably (Tables 11-15). Halibut PSC on most other target species decreased between 2013 and 2014 (Tables 12 and 13).

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<sup>1</sup>An FMP fishery is one that is managed under a Federal Management Plan. Pacific halibut is not an FMP groundfish.

The aggregate ex-vessel value of the FMP groundfish fisheries off Alaska was \$941 million, which was 51% of the ex-vessel value of all commercial fisheries off Alaska in 2014 (Tables 17 and 19) and 17% of the ex-vessel value of total U.S. domestic landings (NMFS, 2013).<sup>2</sup> Groundfish made up a larger share of the ex-vessel value from the fisheries off Alaska than last year, in part, because of the decrease in salmon. While nominal ex-vessel value of FMP groundfish increased \$69.3 million in 2014 (Table 19), after adjustment by the seafood Producer Price Index (PPI), real ex-vessel value dropped slightly (Table 16). This was because ex-vessel prices did not rise as much as the general US producer price of seafood.

The ex-vessel market of the FMP groundfish fisheries off Alaska showed healthy growth in 2014 with a 7.95% increase in aggregate value, retained catch increased 4.28% to 2,110 thousand t, and the aggregate ex-vessel price increased 3.52% to \$0.202 per pound of retained catch (Tables 2, 6 and 19). Ex-vessel prices for individual species (complexes) were generally increasing and changes tended to be modest in magnitude. Because of this both movement in catch and price were critical in determining changes in aggregate value for individual species (complexes). There was some variation in the way in which ex-vessel value accrued to regions, sectors or gear types. At times changes in one sector would mitigate changes in another, generally resulting in (sometimes small) aggregate net increase in ex-vessel value. Ex-vessel value increased for all species (complexes) except flatfish. The largest percentage increases in ex-vessel value were for Atka mackerel and Pacific cod, and to a lesser extent for the rockfish complex (Table 19).

The ex-vessel value of Alaska pollock was \$474 million in 2014 (Table 19). Pollock prices fell slightly in the GOA but rose slightly in the BSAI. Together with the increase in catches, the net effect was a 4.1% increase in pollock ex-vessel value (Table 19). However, the largest gains in ex-vessel value came from Pacific cod with a increase of 22% to \$204 million in 2014. This increase was supported by a small but significant price increase in Pacific cod that occurred broadly across regions and gear types (Table 18). The substantial increase in ex-vessel value in the rockfish complex to \$31 million in 2014 was largely the result of increased catch in the BSAI catcher-processor (CP) sector. The impact of decrease in sablefish catch on ex-vessel value was offset by an increase in the ex-vessel price resulting in a small increase in ex-vessel value. At \$95 million in 2014 sablefish ex-vessel value is higher than last year but remains below recent levels because of reduced catch levels. The decrease in aggregate flatfish ex-vessel value to \$96 million in 2014 was the result of decreased catches in the BSAI. Flatfish ex-vessel value for GOA increased with catch. In particular, flatfish ex-vessel value for GOA CPs more than doubled, based in large part on the increase in arrowtooth catch. The resumption of Atka mackerel catch to a more typical level was supported by an increase in prices which brought ex-vessel value to \$29.3 million, which was back to levels observed in 2010-2012.

The gross value of the 2014 groundfish catch after primary processing (first wholesale) was \$2.32 billion (Table 25), an increase of 6.9% from 2013. This was slightly more than the first-wholesale value of Alaska's non-FMP groundfish fisheries which totaled \$1.93 billion (Table 30). Most of the non-FMP groundfish product value comes from Pacific salmon which totaled \$ 1.4 billion, and was down 29% in 2014 as a result of low catch levels. Halibut, which comes mostly from the Gulf of Alaska, continued to decline in 2014 with reductions in the allowable catch and in 2014 the first-wholesale value was \$109 million, 39% of its level in 2010. Aggregate first-wholesale production grew 6.3% to 973.5 thousand t and aggregate prices stayed roughly constant at \$1.1086 per pound

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<sup>2</sup>The data required to estimate net benefits to either the participants in fisheries or the Nation, such as cost or quota value (where applicable) data, are not available. Unless otherwise noted value should be interpreted as gross revenue.

in 2014 (Table 25 and 26). Most species (complexes) saw increasing first-wholesale total value in 2014 with the exception of flatfish. In percentage terms the most significant change in value were in Atka mackerel and rockfish, which grew 88.8% and 25.5% respectively. First-wholesale prices across species (complexes) increased for all except pollock and the flatfish complex. Price changes tended to be modest (Table 26).

Pollock first-wholesale value increased 3.6% in 2014 to \$1.38 billion, primarily due to a 6.2% increase in production (Tables 25 and 26). Value increased for two of three of pollock's primary product forms: surimi and roe, which made up a combined 41.3% of pollock total first-wholesale value. The largest value increase (30.2%) came from pollock roe where production increased 49.6%. The increase in surimi value (11.4%) was the result of moderate increases in both production (7.7%) and price (3.3%). Pollock fillets (all forms) had a 39.8% value share in 2014. Pollock fillet value decreased 3.2% despite a 4.1% increase in production as prices fell 6.2%. Pacific cod aggregate first-wholesale value increased 17.8%. The most critical change in was a 30.4% in 'head and gut' (H&G) first-wholesale value. This change was driven by a 18.9% increase in H&G prices to \$1.244 per pound which largely reversed the significant decline in the 2013. Pacific cod fillets are primarily produced by the shoreside sector where value decreased 3.8%, with small decreases in both fillet prices and production. Pacific cod roe is a comparatively small product form, but has seen substantial increases in both value and production over the last three years. Sablefish production was down but an 18.9% increase in price resulted in a small net 1.5% increase in first-wholesale value. The Atka mackerel 30% price increase, coupled with the 43.3% increase in Atka mackerel production, resulted in a 88% increase in Atka mackerel value. Prices in the rockfish complex increased 13.4% while production increased 10.7%, resulting in a 25.5% increase in value in the rockfish complex. The flatfish complex is the only species group that showed decreased first-wholesale value (8.8%) in 2014. The decrease in flatfish value can be attributed to a 11.8% decrease in prices, while first-wholesale production was relatively stable. While flatfish H&G (83% value share) prices only decreased marginally all other product forms saw significant decreases in prices. Whole fish production increased substantially although whole fish prices decreased. Some of the changes in the aggregate flatfish complex may be a reflection of changes in the relative proportion of species produced within the complex which can command different prices for a given product type.

A significant portion of the products produced from the commercial fisheries off Alaska are exported. Since 2005 exports of pollock originating from Washington and Alaska have risen from 293 thousand t to 392 thousand t and value has risen from \$892 million to \$1,072 million (Table E.2). Pollock fillet and surimi accounted for 69.6% of the export value. Germany, South Korea and Japan were the primary markets from which export value came with \$263 million, \$237 million and \$235 million, respectively, while the export value of products going to China totaled \$129 million in 2014 (Table E.2). Globally, pollock, Pacific cod and sablefish from Alaska accounted for 10% of the world's 6.5 million t production of 'cod, hake, and haddock' species (as defined by the FAO) in 2012 (Tables 25 and E.1). Alaska's first first-wholesale value from pollock, Pacific cod and sablefish was \$2.1 billion relative to the world's total 'cod, hake, and haddock' species product value of \$7.6 billion. Between 2009 and 2012 Alaska's share of production in the global 'cod, hake, and haddock' market has increased from 8.5% to 10.4%, while value has increased from 23.6% to 27.5%. The higher rate of change in value relative to production indicates that Alaskan products are competitive in global markets.

NOAA fisheries collects only limited data on employment in the fisheries off Alaska. The most direct measure available is the number of 'crew weeks' on at-sea processing vessels of FMP groundfish.

These data indicate that in 2014, crew weeks totaled 104,453 with the majority of them (100,319) occurring in the BSAI groundfish fishery (Table 50). In 2014, the maximum monthly employment peaked in March with 16,869 crew weeks. Relative to 2013, annual crew weeks increased in 2014 by 4.8%, which comes after a decline of 10% in 2013 from 2012. Statewide average monthly employment in fish processing (of any species) was 10,400 in 2014, up slightly from previous years (Table E.3). Statewide average monthly employment in groundfish harvesting between 2008 and 2012 (the most recent data currently available from the Alaska Department of Labor) was 1,552 and comprised 20% of the total fish harvesting employment in Alaska (Table E.4).



## 2. OVERVIEW OF ECONOMIC STATUS REPORT, 2014

This report presents the economic status of groundfish fisheries off Alaska in terms of economic activity and outputs using estimates of catch, prohibited-species catch (PSC), ex-vessel prices and value (i.e., revenue), the size and level of activity of the groundfish fleet, and the weight and gross value of (i.e., F.O.B. Alaska revenue from) processed products.<sup>1</sup> The catch, ex-vessel value, and fleet size and activity data are for the fishing industry activities that are reflected in Weekly/Daily Production Reports, observer data, fish tickets, and the Commercial Operator’s Annual Reports. All catch data reported for 1991-2002 are based on the blend estimates of total catch, which were used by the NMFS Alaska Regional Office (AKR) to monitor groundfish and PSC quotas in those years. Catch data for 2003-2014 come from the AKR’s catch-accounting system (CAS), which replaces the “blend” as the primary tool for monitoring groundfish and PSC quotas. The data descriptions, qualifications, and limitations noted in the overview of the fisheries, market reports and the footnotes to the tables are critical to understanding the information in this report. This report updates last year’s report (Fissel *et al.* 2014) and is intended to serve as a reference document for those involved in making decisions with respect to conservation, management, and use of GOA and BSAI fishery resources.

The footnotes for each table in this document indicate if the estimates provided in that table are only for the fisheries with catch that is counted against a federal Total Allowable Catch (TAC) quota (i.e., managed under a federal FMP) or if they also include other Alaska groundfish fisheries. The reader should keep in mind that the distinction between catch managed under a federal FMP and catch managed by the state of Alaska is not merely a geographical distinction between catch occurring outside the 3-mile limit (in the U.S. Exclusive Economic Zone, or EEZ) and catch occurring inside the 3-mile limit (Alaska state waters). The state of Alaska maintains authority over some rockfish fisheries in the EEZ of the GOA, for example, and federal FMPs often manage catch from inside state waters in addition to catch from the EEZ. It is not always possible, depending on the data source(s) from which a particular estimate is derived, to definitively identify a unit of catch (or the price, revenue or other measure associated with a unit of catch) as being part of a federal FMP or otherwise. For Catch-Accounting System data from the NMFS Alaska Regional Office (AKR), for example, distinguishing between the two categories is relatively easy, but the distinction is approximate for Alaska Department of Fish & Game (ADF&G) fish ticket data and essentially impossible for Commercial Operator’s Annual Report (COAR) data. Finally, even for catch that can be positively identified as being part of a federal TAC, it is not always possible to identify what portion of that catch might have come from inside Alaska state waters and what portion came from the federal EEZ. Because of these multiple layers of ambiguity, there may be tables in which the reader should not construe phrases such as “groundfish fisheries off Alaska” or “Alaska groundfish”, as used in this report, to precisely include or exclude any category of state or federally managed fishery or to refer to any specific geographic area. These and similar phrases may mean groundfish from both Alaska state waters and the federal EEZ off Alaska, or groundfish managed only under federal FMPs or managed by both NMFS and the state of Alaska. Again, refer to the notes for each table for a description of what is included in the estimates provided in that table.

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<sup>1</sup>F.O.B. refers to the value (or price) excluding transportation costs. The acronym, F.O.B. stands for “Free On Board”.

The BSAI and GOA groundfish fisheries are widely considered to be among the best managed fisheries in the world. These fisheries produce high levels of catch, ex-vessel revenue, processed product revenue, exports, employment, and other measures of economic activity while maintaining ecological sustainability of the fish stocks. However, the data required to estimate the success of these policies with respect to net benefits to either the participants in these fisheries or the Nation, such as cost or quota value (where applicable) data, are not available for nearly all the fisheries.

Fishery economists began discussing the potential for rent dissipation in fisheries managed with open-access catch policies long ago (Scott 1954, Gordon 1955). The North Pacific region has gradually moved away from such management, as discussed by Holland (2000), and instituted catch share programs in many of its fisheries. Six of the 15 catch-share programs currently in operation throughout the U.S. operate in the North Pacific, accounting for approximately 75% groundfish landings. By allocating the catch to individuals, cooperatives, communities, or other entities catch share programs are intended to promote sustainability and increase economic benefits. Research on North Pacific fisheries has examined some of these issues after program implementation, (e.g., Homans and Wilen 2005, Felthoven 2002, Wilen and Richardson 2008, Abbott et al. 2010, Fell and Haynie 2011, Torres and Felthoven 2014, Abbott et al. 2015). A new section on catch share metrics provides a consistent set of metrics to evaluate the North Pacific catch share programs in various dimensions.

There is considerable uncertainty concerning the future conditions of stocks, the resulting quotas, and future changes to the fishery management regimes for the BSAI and GOA groundfish fisheries. The management tools used to allocate the catch between various user groups can significantly affect the economic health of either the domestic fishery as a whole or segments of the fishery. Changes in fishery management measures are expected as the result of continued concerns with: 1) the catch of prohibited species; 2) the discard and utilization of groundfish catch; 3) the effects of the groundfish fisheries on marine mammals and sea birds; 4) other effects of the groundfish fisheries on the ecosystem and habitat; and 5) the allocations of groundfish quotas among user groups.

## 2.1. Description of the Economic Data Tables

### 2.1.1 *Catch Data*

Trawl, hook and line (including longline and jigs), and pot gear account for virtually all the catch in the BSAI and GOA groundfish fisheries. There are catcher vessels and catcher/processor vessels within each of these three gear groups. Table 2 presents catch data by area, gear, vessel type, and species. The catch data in Table 2 and the catch, PSC, and vessel information in the tables of the rest of this report are for the BSAI and GOA FMP fisheries unless otherwise indicated.

Target fisheries are defined by area, gear and target species. The target designations are used to estimate PSC, apportion PSC allowances by fishery, and monitor those allowances. The target fishery designations can also be used to provide estimates of catch and PSC data by fishery. The “blend” catch data are assigned to a target fishery by processor, week, area, and gear. The catch-accounting system (CAS), which replaced the blend as the primary source of catch data in 2003, assigns the target at the trip level rather than weekly, except for the small fraction of total catch (0-4% in different years) that comes from NMFS Weekly/Daily Production Reports (WPR). CDQ fishing activity is recorded separately from non-CDQ fishing. Generally, the species or species group that accounts for the largest proportion of the retained catch of the TAC species is considered the target

species. One exception to the dominant retained-catch rule is that the target for the pelagic pollock fishery is assigned if 95% or more of the total catch is pollock. Tables 3 and 4 provide estimates of total catch by species, area, gear, and target fishery for the GOA and the BSAI, respectively. Beginning in 2011, Kamchatka flounder was broken out from other flatfish target species categories (in the BSAI only). As such, the “other flatfish”, and/or arrowtooth flounder target categories may not be directly comparable between 2011 and prior years in Tables 4 , 8, 10, 13, and 15; and the other flatfish species category is not comparable in Tables 4, 8, and 26.

Residents of Alaska and of other states, particularly Washington and Oregon, are active participants in the BSAI and GOA groundfish fisheries. Catch data by residency of vessel owners are presented in Table 5. These data were extracted from the NMFS blend and catch accounting system catch databases and from the State of Alaska groundfish fish ticket database and vessel-registration file, which includes the stated residency of each vessel owner. For the domestic groundfish fishery as a whole, 83% of the 2014 catch volume was made by vessels with owners who indicated that they were not residents of Alaska. The catches of the two vessel-residence groups were much closer to being equal in the GOA. Note that in 2010 we changed the method by which we produced Table 5. Since the Alaska Region’s CAS data (unlike the earlier Blend data) now include catcher-vessel IDs for all processing sectors, and information on vessel-owner residency is readily available from both NMFS and the state of Alaska, we can obtain direct estimates of groundfish catch by owner residence. Previously, we had estimated the amount of catch by residency for the shoreside sector by prorating CAS estimates based on the fraction of catch by residency obtained from shoreside fish-ticket data, which have always included catcher-vessel IDs.

### *2.1.2 Groundfish Discards and Discard Rates*

The discards of groundfish in the groundfish fishery have received increased attention in recent years by NMFS, the Council, Congress, and the public at large. Table 6 presents the catch-accounting system estimates of discarded groundfish catch and discard rates by gear, area, and species for years 2010-2014. The discard rate is the percent of total catch that is discarded. These are the best available estimates of discards and are used for several management purposes. However, they should be viewed as “noisy” estimates. The groundfish TACs are established and monitored in terms of total catch, which is both retained catch and discarded catch. The catch-composition sampling methods used by at-sea observers provide the basis for NMFS to make good estimates of total catch by species, not the disposition of that catch. Observers on vessels sample randomly chosen catches for species composition. For each sampled haul, they also make a visual approximation of the weight of the non-prohibited species in their samples that are being retained by the vessel. This is expressed as the percent of that species that is retained. Approximating this percentage is difficult because discards can occur in a variety of ways such as fish falling off of processing conveyor belts, dumping of large portions of nets before bringing them on-board the vessel, dumping fish from the decks, size sorting by crewmen, and quality-control discards. For the most common species (e.g. pollock and cod) retention requirement help to mitigate this error and approximations are likely to be fairly accurate. Because the discard estimates are derived by expanding these approximations from sampled hauls to the remainder of the catch they should be considered noisy for the purposes of analysis.

Tables 7, 8, 9 and 10, respectively, provide estimates of discarded catch and discard rates by species, area, gear, and target fishery. Within each area or gear type, there are substantial differences in

discard rates among target fisheries. Similarly, within a target fishery, there are often substantial differences in discard rates by species. Typically, in each target fishery the discard rates are very high except for the target species. The regulatory exceptions to the prohibition on pollock and Pacific cod discards explain, in part, why there are still high discard rates for these two species in some fisheries.

### 2.1.3 *Prohibited-Species Catch*

The catch of Pacific halibut, king and tanner crab (*Chionoecetes*, *Lithodes* and *Paralithodes spp.*), Pacific salmon (*Oncorhynchus spp.*), and Pacific herring (*Clupea pallasii*) in Alaska groundfish fisheries has been a central management issue for roughly thirty years. The retention of these species was prohibited first in the foreign groundfish fisheries to ensure that groundfish fishermen had no incentive to target these species. Estimates of the catch of these “prohibited species” for 2010-2014 are summarized by area and gear in Table 11. More detailed estimates of prohibited species catch (PSC) and of PSC rates for 2013 and 2014 are in Tables 12-15. The estimates for halibut are in terms of PSC mortality because the PSC limits for halibut are set and monitored using estimated discard mortality rates. The estimates for the other prohibited species are of total PSC; this is in part due to the lack of well-established discard mortality rates for these species. The discard mortality rates probably approach 100% for salmon and herring in the groundfish fishery as a whole; the discard mortality rates for crab, however, may be lower.

The at-sea observer program was developed for the foreign fleets and then extended to the domestic fishery. The observer program, managed by the Fisheries Monitoring and Analysis Division (FMA) of the Alaska Fisheries Science Center, resulted in fundamental changes in the nature of the PSC problem. First, by providing good estimates of total groundfish catch and non-groundfish PSC by species, it eliminated much of the concern that total fishing mortality was being vastly underestimated due to fish that were discarded at sea. Second, it made it possible to establish, monitor, and enforce the groundfish quotas in terms of total catch as opposed to only retained catch. Third, it made it possible to implement and enforce PSC quotas for the non-groundfish species that by regulation had to be discarded at sea. Finally, it provided extensive information that managers and the industry could use to assess methods to reduce PSC and PSC mortality. In summary, the observer program provided fishery managers with the information and tools necessary to prevent PSC from adversely affecting the stocks of the PSC species. An example of how this program is being used is the Bering Sea pollock fishery, became completely observed in 2011. As a result salmon PSC estimates in the Bering Sea are a census rather than a sample and since 2011, there has been a fixed “hard cap” in the fishery. The information from the observer program helps identify the types of information and management measures that are required to reduce PSC to the extent practicable, as is required by the Magnuson-Stevens Fishery Conservation and Management Act (MSA).

### 2.1.4 *Ex-Vessel Prices and Value*

Table 18 contains the estimated ex-vessel prices that were used with estimates of retained catch to calculate ex-vessel values (gross revenues). The estimates of ex-vessel value by area, gear, type of vessel, and species are in Table 19. Notice that the estimates of ex-vessel prices and value for trawl-caught GOA rockfish in this year’s report are no longer based on fractions of processed-product prices and value as in the past (refer to the footnote to Table 18). Since 2000 at least 20% of

all rockfish retained landings in Alaska were caught by trawl gear in the GOA and delivered to shoreside processors; this means that we have adequate data on these shoreside landings to estimate ex-vessel prices (and thus values) directly.

Tables 20 and 21 summarize the ex-vessel value of catch delivered to shoreside processors by vessel-size class, gear, and area. Table 20 gives the total ex-vessel value in each category and Table 21 gives the ex-vessel value per vessel. Table 22 provides estimates of ex-vessel value by residency of vessel owners, area, and species. For the BSAI and GOA combined, 76.66% of the 2014 ex-vessel value was accounted for by vessels with owners who indicated that they were not residents of Alaska. Note that, as with Table 5, we have revised the method for producing Table 22 to use information on catcher-vessel IDs in catch-accounting system data to better determine the residency of participants in the fisheries.

Table 23 presents estimates of ex-vessel value of catch delivered to shoreside processors, and Table 24 gives the ex-vessel value of groundfish as a percentage of the ex-vessel value of all species delivered to shoreside processors.<sup>2</sup> The data in both tables, which include both state and federally managed groundfish, are reported by processor group, which is a classification of shoreside processors based primarily on their geographical locations. The processor groups are described in the footnotes to the tables.

This 2014 version of the Economic Status Report presents an additional set of tables in an appendix: Tables 16.B-24.B. These tables present ex-vessel prices and value utilizing prices derived from ADF&G fish tickets priced by the Alaska Commercial Fisheries Entry Commission (CFEC). This provides an alternative source of ex-vessel prices to the Commercial Operator Annual Report (COAR) purchasing data that has historically been used to assemble Tables 16-24. CFEC fish ticket prices reflect individual transactions reported on shoreside and mothership landing reports, adjusted by analysts with consideration to COAR buying data, and therefore may be subject to additional scrutiny. Work is ongoing to analyze and characterize differences between the two pricing methods, and we are working with industry to get their perspective on which source may best reflect the pricing conditions faced by their companies. Until we have finalized this analysis we will retain the COAR pricing in the main body of the status report (Section 4: Tables 16-24) and include the CFEC pricing in the appendix. Note that Tables 16.B-24.B are valid only for the years after 2003.

#### *2.1.5 First Wholesale Production, Prices and Value*

Estimates of first wholesale weight and value (gross revenue) of the processed products made with BSAI and GOA groundfish catch are presented by species, product form, area, and type of processor in Tables 25, 28 and 29. Product price-per-pound estimates are presented in Table 26, and estimates of total product value per round metric ton of retained catch (first wholesale prices) are reported in Table 27. Wholesale value and prices in Tables 25-35 are F.O.B. Alaska. The term F.O.B. (Free On Board) implies that ownership of the goods transfers at the sellers location (Alaska). More importantly, it indicates that transportation costs are not included in values and prices.

Table 30 reports estimates of the weight and first wholesale value of processed products from catch in the non-groundfish commercial fisheries of Alaska, which enables comparison with the groundfish first wholesale value estimates reported in Table 25. We present Table 30 to provide a further

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<sup>2</sup>This including catch in non-Federal fisheries. See table notes for details.

means, besides the ex-vessel value estimates reported in Table 16, of comparing the groundfish and non-groundfish fisheries.

Gross product value data, through primary processing, are summarized by category of processor and by area in Table 31, and by catcher/processor category, size class and area in Table 32. Table 33 reports gross product value per vessel, categorized in the same way as Table 32. Tables 34 and 35 present gross product value of groundfish processed by shoreside processors and the groundfish gross product value as a percentage of all-species gross product value, with both tables broken down by processor group. The processor groups are the same as in Tables 23 and 24 and no distinction is made between groundfish catch from the state and federally managed groundfish fisheries.

### *2.1.6 Counts and Average Revenue of Vessels That Meet a Revenue Threshold*

For the purposes of Regulatory Flexibility Act analyses, a business involved in fish harvesting is defined by the Small Business Administration (SBA) as a small business if it is independently owned and operated and is not dominant in its field of operation (including its affiliated operations worldwide). Historically, the SBA defined small business entities in the finfish fishing and shellfish fishing industries as entities that had combined annual receipts of no greater than \$4 million across all revenue sources. In June 2013, the SBA revised the small entity size standard for the finfish fishing industry (NAICS code 114111) from \$4 million to \$19 million; the small entity size standard for shellfish fishing (NAICS code 114112) was adjusted to \$5 million.

Reporting in Tables 36 - 39b, which presents counts and average revenues of entities meeting small and large entity thresholds, has been revised in the current version of this report to reflect the 2013 adjustments to the SBA small entity size standards and additional interpretive guidance provided by staff of the NMFS Alaska Regional Office. To determine whether an entity is subject to the finfish or shellfish standard, we use a “preponderance of gross receipts” rule: the standard applied to an entity corresponds to the fishing activity from which it derived the greater amount of revenue in the given year. Entities are classified as large or small for a given year using their average annual gross revenues over the three most recent three years, inclusive. Beginning with the current reporting of 2013 data, which draws on more complete accounting of groundfish bycatch in directed halibut fisheries, we include vessels targeting halibut among the entities reported in Tables 36 - 39b. Due to these changes from pre-2013 reporting methods, Tables 36 - 39b now show data only for 2013 and forward.

Though we do not have all the information necessary to determine if a vessel is independently owned and operated and has gross earnings in excess of the relevant small entity size threshold, it is possible to identify vessels that clearly are not small entities by using estimates of revenue from catch or processing of Alaska groundfish and other species.

Estimates of both the numbers of fishing vessels that clearly are not small entities and the numbers of fishing vessels that may be small entities are presented in Tables 36 and 37a, respectively. Estimates of the average, three-year averaged annual revenue per vessel (i.e., revenue averaged over the three most recent years by vessel, then averaged over all vessels by year) for the vessels in Tables 36 and 37a, respectively, are presented in Tables 38 and 39a. Data on ex-vessel revenue from federal West Coast fisheries, including the imputed ex-vessel value of the at-sea whiting fishery, have been incorporated into estimates of vessel revenue in all tables. These tables treat vessels as proxies for

entities, in that revenue and entity size are determined for each vessel individually without regard to affiliation.

An alternative set of tables, Tables 37b and 39b, show small entity counts and average, three-year-averaged annual revenues per entity taking into account known affiliations among vessels. These tables utilize information on cooperative affiliations in the AFA pollock, Amendment 80 non-pollock trawl, Central Gulf of Alaska rockfish, Bering Sea & Aleutians Islands crab, and freezer longliner BSAI Pacific cod fisheries, in addition to known corporate affiliations among vessels. Group revenue for these affiliations is calculated as the total revenue across all member vessels; group revenue averaged over the most recent three-year period is used to determine small or large entity status for affiliations. Entity size for all affiliations is determined with respect to the finfish small entity standard, with the exception of crab cooperatives, which are subject to the shellfish standard.

#### *2.1.7 Effort (Fleet Size, Weeks of Fishing, Crew Weeks)*

Estimates of the numbers and registered net tonnage of vessels in the groundfish fisheries are presented by area and gear in Table 40, and estimates of the numbers of vessels that landed groundfish are depicted in Fig. 6 by gear type. More detailed information on the BSAI and GOA groundfish vessels by type of vessel, vessel size class, catch amount classes, and residency of vessel owners is in Tables 41-46. In particular, Table 43 gives detailed estimates of the numbers of smaller (less than 60 feet) hook-and-line catcher vessels.

Estimates of the number of vessels by month, gear, and area are in Table 47. Table 48 provides estimates of the number of catcher vessel weeks by size class, area, gear, and target fishery. Table 49 contains similar information for catcher/processor vessels.

Weekly/Daily Production Reports include employment data for at-sea processors but not inshore processors. These employment data measure 'crew weeks' and are summarized in Table 50 by month and area. Crew weeks are defined as the number of crew aboard each vessel in a week summed over the entire year.

#### *2.1.8 Description of the Category "Other" in Data Tables*

- TABLE 1A: "Other shellfish" comprises shellfish other than crab, including abalone, mussel, clam, oyster, scallop, sea cucumber, sea urchin, shrimp, and snails. Note that octopus and squid are reported as groundfish as they are managed under the BSAI and GOA groundfish FMPs.
- TABLE 4, 8: "Other flatfish" in the BSAI include Alaska Plaice and species within the BSAI other flatfish management complex, including starry flounder and dover, rex, butter, English, petrale, and sand sole.
- TABLE 11, 12: "Other salmon" are non-Chinook salmon species (sockeye, coho, pink, chum). "Other King crab" are blue, golden (brown), and scarlet king crab species. "Other Tanner crab" are snow, grooved, and triangle Tanner crab species.
- TABLE 12, 14: "Other groundfish" are octopus, sculpin, shark, skates, and squid.

- TABLE 13, 15: “Other flatfish” in the BSAI include Alaska Plaice and species within the BSAI other flatfish management complex (starry flounder and dover, rex, butter, english, petrale, and sand sole)
- TABLE 25, 26, 28, 29: “Other fillets” for pollock include fillets with skin and ribs; fillets with skin, no ribs; fillets with ribs, no skin; and skinless/boneless fillets
- TABLE 26: “Flat Other” includes BSAI Alaska Plaice and species within the BSAI other flatfish management complex (starry flounder and dover, rex, butter, english, petrale, and sand sole)
- TABLE 27: “Other” species are primarily skate, squid, octopus, shark, and sculpin.
- TABLE 30: “Other” includes lingcod, non-crab shellfish (mussel, clam, scallop, shrimp), and various freshwater and anadromous finfish species other than federally managed groundfish, salmon, halibut, and herring (e.g., whitefish, trout, Arctic char).

### 2.1.9 Additional Notes

- Confidential values are excluded from the computation of aggregates (e.g. sums and averages) within a table. This is particularly important to remember for highly stratified tables, such as Tables 19, 20, 25 and 26. Care should be taken when comparing totals from tables containing values suppressed for confidentiality. In general, preference should be given to aggregate numbers from less stratified tables.
- Within the data tables, numbers that are smaller than the level of precision used within the table are printed as '0'. For example, if a table uses the one decimal place level of precision, then an actual value of '0.01' is presented in the table as '0'.
- The Producer Price Index (PPI) for unprocessed and packaged fish was to deflate the ex-vessel and first wholesale value estimates reported in Tables 16 and 30, respectively. The PPIs are available from the Bureau of Labor Statistics at: <http://data.bls.gov/cgi-bin/srgate>, using the series ID 'WPU0223'.
- Estimates of U.S. imports and per-capita consumption of various fisheries products, previously published in Table 54-56 of this report, are available in Fisheries of the United States (FUS), published annually by the NMFS Office of Science & Technology. The 2014 FUS is available at: <http://www.st.nmfs.noaa.gov/Assets/commercial/fus/fus12/index.html>.
- Annual and monthly U.S. economic indicators (producer and consumer price indices), published in past years in Tables 57 and 58 are available from the U.S. Department of Labor Statistics at: <http://www.bls.gov/data/sa.htm>.
- Foreign exchange rates, which we've previously published in Tables 59 and 60, are available from the U.S. Federal Reserve Board (for all currencies except the Icelandic kronur) at: [www.federalreserve.gov](http://www.federalreserve.gov). Exchange rates for Iceland's kronur are available at: [www.oanda.com](http://www.oanda.com).
- The information provided by the FMA division of the AFSC has had a key role in the monitoring of total allowable catches (TACs), catch of prohibited species. In recent years, observer data for individual vessel accounting has been important in the management of the CDQ program, AFA pollock, BSAI crab, Amendment 80 fisheries, as well as others. In



addition, much of the information that is used to assess the status of groundfish stocks, to monitor the interactions between the groundfish fishery and marine mammals and sea birds, and to analyze fishery management actions is provided by the FMA.

- Observes coverage costs: In previous years, Table 51 provided estimates of the numbers of vessels and plants with observers, the numbers of observer-deployment days, and observer costs by year and type of operation. In 2013, the restructured observer program was implemented and more detailed treatment of observer cost estimates can be found in the analysis of the restructuring at: [http://alaskafisheries.noaa.gov/analyses/observer/amd86\\_amd76\\_earirirfa0311.pdf](http://alaskafisheries.noaa.gov/analyses/observer/amd86_amd76_earirirfa0311.pdf).

## 2.2. Request for Feedback

The data and estimates in this report are intended both to provide information that can be used to describe the Alaska groundfish fisheries and to provide the industry and others an opportunity to comment on the validity of these estimates. We hope that the industry and others will identify any data or estimates in this report that can be improved and provide the information and methods necessary to improve them for both past and future years. There are two reasons why it is important that such improvements be made. First, with better estimates, the report will be more successful in monitoring the economic performance of the fisheries and in identifying changes in economic performance that may be attributable to regulatory actions. Second, the estimates in this report often will be used as the basis for estimating the effects of proposed fishery management actions. Therefore, improved estimates in this report will allow more informed decisions by those involved in managing and conducting the Alaska groundfish fisheries. The industry and other stakeholders in these fisheries can further improve the usefulness of this report by suggesting other measures of economic performance that should be included in the report, or other ways of summarizing the data that are the basis for this report, and participating in voluntary survey efforts NMFS may undertake in the future to improve existing data shortages. An online survey to facilitate user feedback is available at: [http://www.afsc.noaa.gov/REFM/Socioeconomics/Contact/SAFE\\_survey.php](http://www.afsc.noaa.gov/REFM/Socioeconomics/Contact/SAFE_survey.php).

## 2.3. Citations

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#### 2.4. Acknowledgements

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### 3. FIGURES REPORTING ECONOMIC DATA OF THE GROUND FISH FISHERIES OFF ALASKA

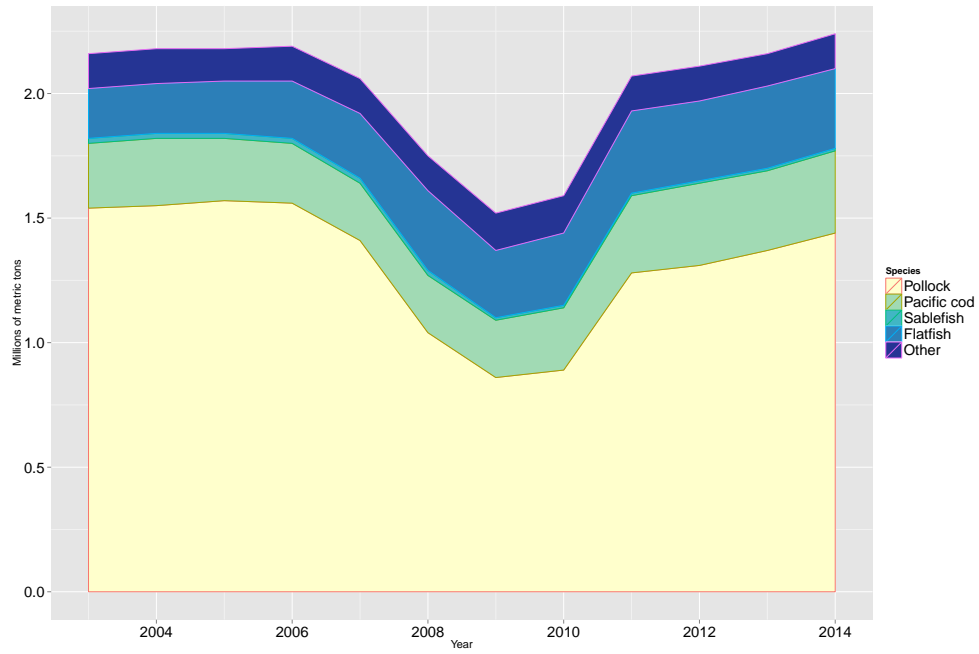


Figure 1: Groundfish catch in the commercial fisheries off Alaska by species, 2003-2014

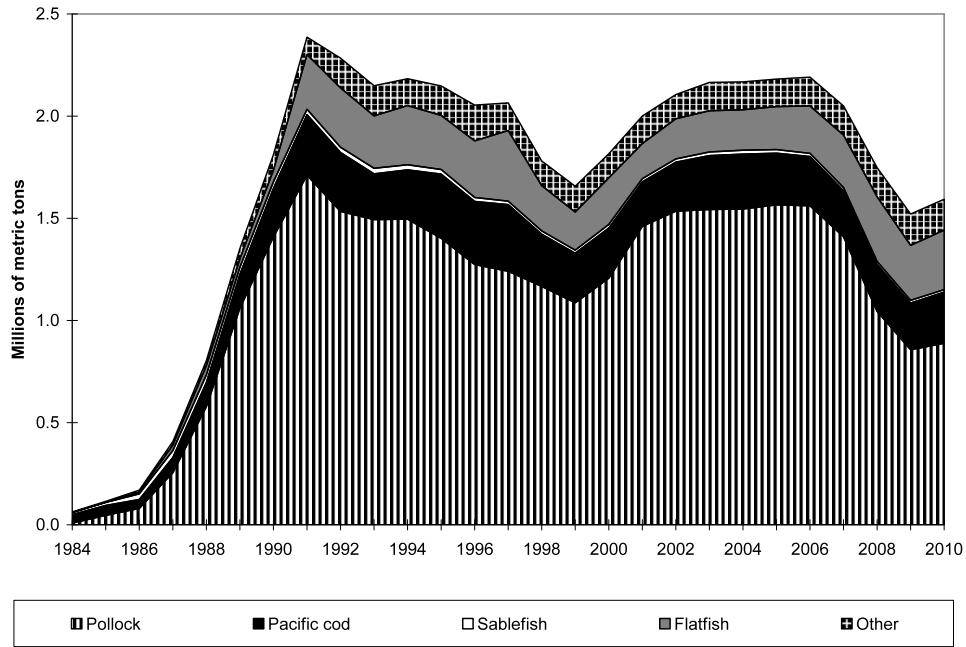


Figure 2: Groundfish catch in the domestic commercial fisheries off Alaska by species, (1984-2010)  
**Notes:** Catch for 2011 and onward are displayed in Figure 1.

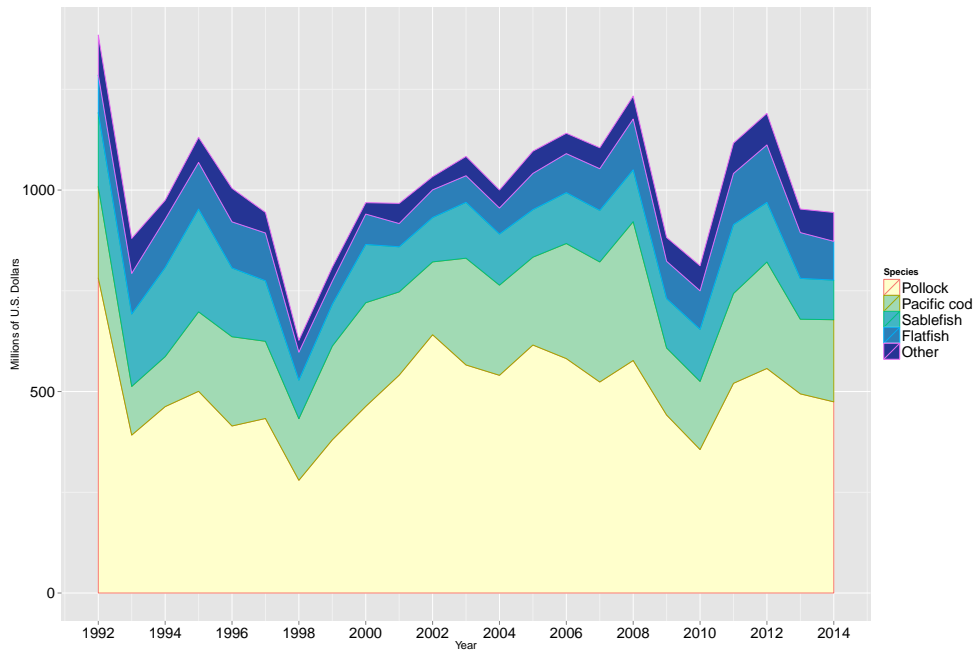


Figure 3: Real ex-vessel value of the groundfish catch in the domestic commercial fisheries off Alaska by species, 1992-2014 (base year = 2014)

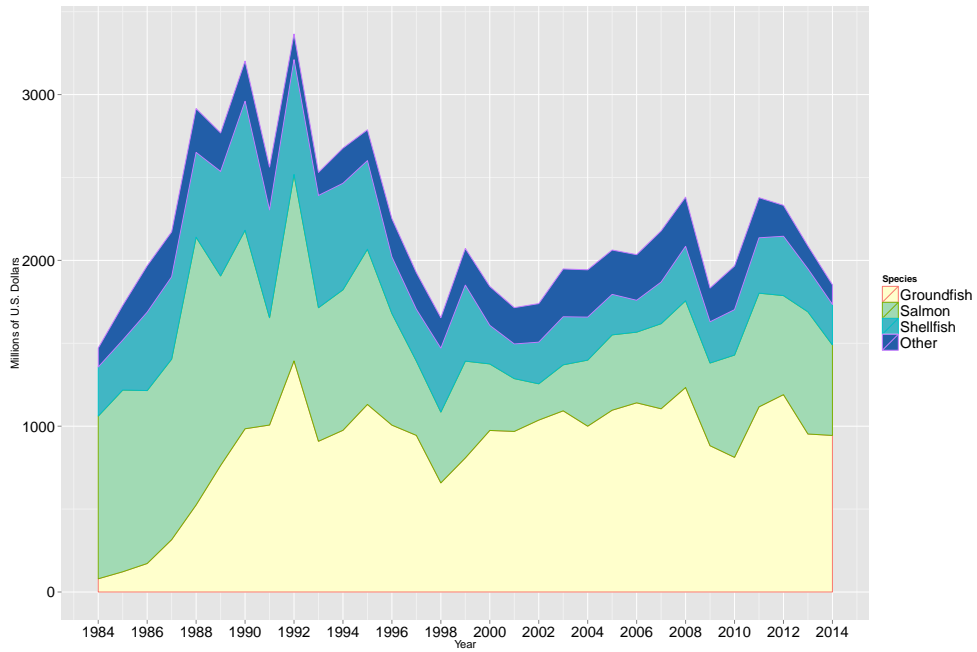


Figure 4: Real ex-vessel value of the domestic fish and shellfish catch off Alaska by species group, 1984-2014 (base year = 2014)

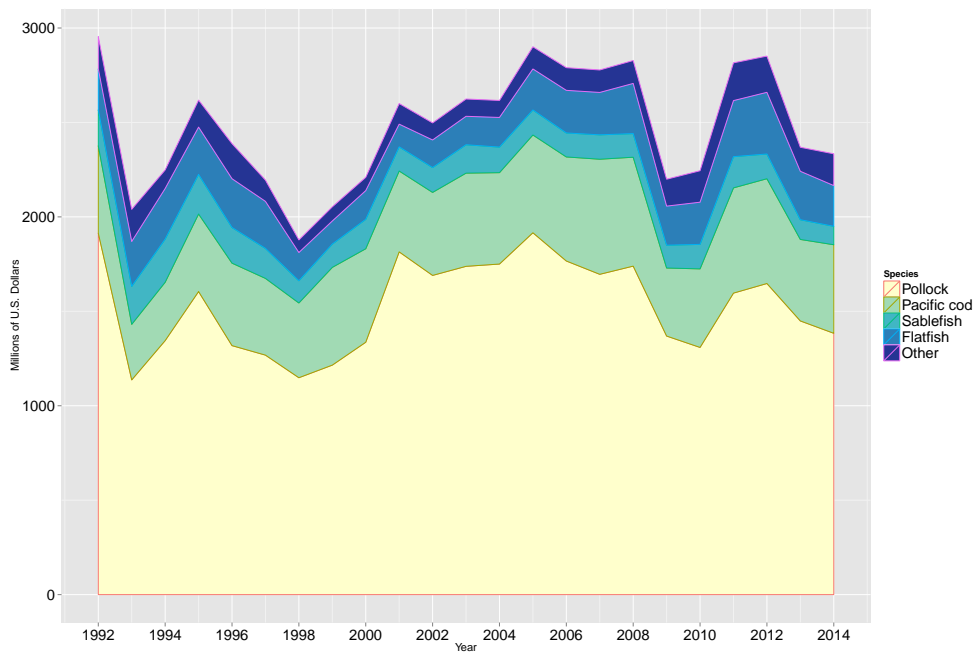


Figure 5: Real gross product value of the groundfish catch off Alaska by species, 1992-2014 (base year = 2014)

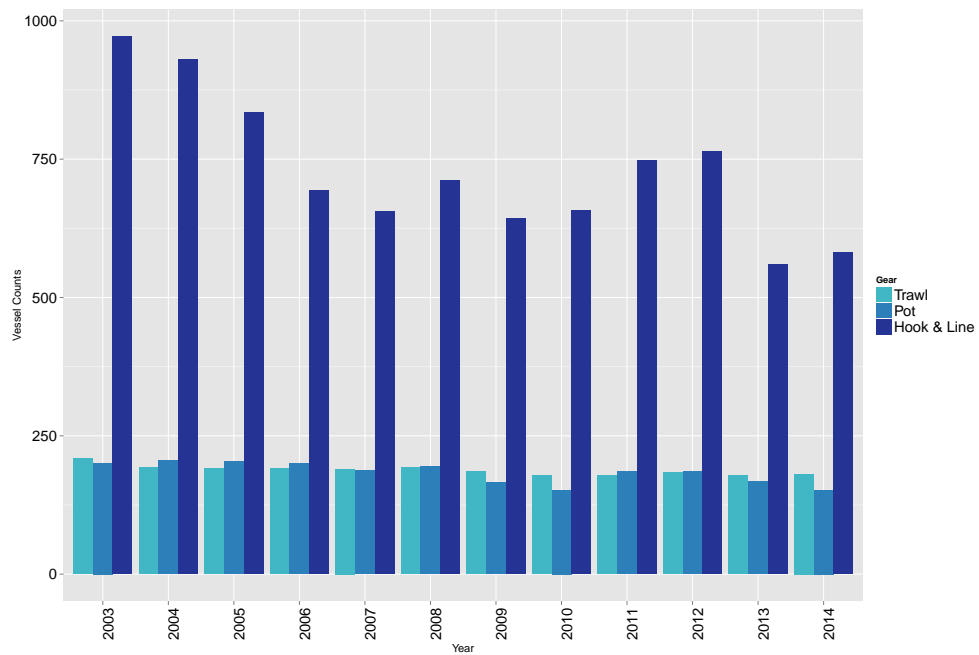


Figure 6: Number of vessels in the domestic fishery off Alaska by gear type, 2003-2014

#### 4. TABLES REPORTING ECONOMIC DATA OF THE GROUND FISH FISHERIES OFF ALASKA

Table 1: Groundfish catch in the commercial fisheries of Alaska by area and species, 2005-2014 (1,000 metric tons, round weight).

	Year	Pollock	Sablefish	Pacific Cod	Flatfish	Rockfish	Atka Mackerel	Total
Gulf of Alaska	2005	81.0	15.0	47.6	30.0	20.6	0.8	200.3
	2006	72.0	14.6	47.9	42.3	24.5	0.9	210.3
	2007	52.7	14.7	52.3	40.5	23.6	1.5	192.4
	2008	52.6	13.6	59.0	45.7	23.1	2.1	202.6
	2009	44.2	12.0	53.2	42.3	22.8	2.2	185.6
	2010	76.7	10.9	78.3	37.7	25.5	2.4	238.7
	2011	81.4	12.0	85.2	41.0	23.1	1.6	251.6
	2012	104.0	12.7	78.0	29.5	27.4	1.2	258.9
	2013	96.4	12.8	68.6	34.0	24.9	1.3	250.2
	2014	142.6	11.1	84.8	47.6	28.8	1.0	326.2
Bering Sea & Aleutian Islands	2005	1,484.6	2.6	205.6	180.5	15.1	62.0	1,981.1
	2006	1,489.8	2.2	193.0	189.5	17.7	61.9	1,982.6
	2007	1,357.0	2.4	174.5	216.2	23.6	58.7	1,860.4
	2008	991.9	2.0	171.0	270.0	21.7	58.1	1,545.7
	2009	812.5	2.0	175.8	226.3	19.5	72.8	1,337.1
	2010	811.7	1.9	171.9	253.4	23.5	68.6	1,354.7
	2011	1,200.4	1.7	220.1	286.0	28.2	51.8	1,817.8
	2012	1,206.3	1.9	250.9	291.4	28.1	47.8	1,858.0
	2013	1,273.8	1.7	250.3	297.2	34.9	23.2	1,914.5
	2014	1,300.2	1.1	249.3	276.1	36.1	30.9	1,928.4
All Alaska	2005	1,565.6	17.6	253.2	210.5	35.7	62.8	2,181.4
	2006	1,561.8	16.9	240.9	231.8	42.2	62.8	2,192.9
	2007	1,409.7	17.0	226.7	256.7	47.2	60.2	2,052.8
	2008	1,044.4	15.7	230.0	315.7	44.8	60.2	1,748.3
	2009	856.8	14.0	229.0	268.6	42.3	75.0	1,522.7
	2010	888.4	12.8	250.2	291.0	49.0	71.1	1,593.4
	2011	1,281.8	13.7	305.3	327.0	51.3	53.4	2,069.4
	2012	1,310.2	14.6	328.9	320.9	55.5	49.0	2,116.8
	2013	1,370.1	14.5	318.9	331.1	59.9	24.5	2,164.7
	2014	1,442.8	12.3	334.2	323.6	64.9	32.0	2,254.6

**Notes:** These estimates include catch from both federal and state of Alaska fisheries.

**Source:** National Marine Fisheries Service, Office of Science and Technology, Fisheries Statistics Division, Fisheries of the United States (housed at the Alaska Fisheries Information Network (AKFIN)).

Table 1A: Catch of species other than groundfish in the domestic commercial fisheries, 2000-2014 (1,000 metric tons).

Year	Crab	Other Shellfish	Salmon	Halibut	Herring	Total
2000	23.8	3.3	275.2	32.5	30.8	365.6
2001	21.4	2.8	311.3	33.7	38.4	407.8
2002	26.3	3.8	237.3	35.4	31.7	334.3
2003	25.8	2.5	286.0	34.8	31.3	380.4
2004	23.9	3.6	316.6	34.7	32.2	410.9
2005	25.9	2.9	395.7	33.5	38.9	496.9
2006	31.4	2.5	287.8	31.4	36.2	389.2
2007	32.1	2.1	390.7	30.5	30.5	485.8
2008	45.1	2.3	290.4	29.3	38.2	405.4
2009	40.6	2.2	304.6	26.2	39.4	413.0
2010	36.1	2.1	343.3	24.9	49.2	455.6
2011	36.5	1.7	334.8	18.7	44.7	436.5
2012	50.8	1.9	277.6	14.7	34.0	379.0
2013	39.5	1.8	459.3	13.0	38.6	552.3
2014	38.6	1.8	309.9	9.8	43.9	404.1

**Notes:** These estimates include catch from both federal and state of Alaska fisheries

**Source:** National Marine Fisheries Service, Office of Science and Technology, Fisheries Statistics Division, Fisheries of the United States (housed at the Alaska Fisheries Information Network (AKFIN)).



Table 2: Groundfish catch off Alaska by area, vessel type, gear and species, 2010-2014 (1,000 metric tons, round weight).

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska		
		Catcher Vessels	Catcher Processors	Total	Catcher Vessels	Catcher Processors	Total	Catcher Vessels	Catcher Processors	Total
Sablefish	2010	9	1	9	1	1	1	9	1	10
	2011	9	1	10	1	0	1	10	1	11
	2012	10	1	11	1	0	1	11	1	12
	2013	10	1	11	1	0	1	11	1	12
	2014	9	1	9	1	0	1	9	1	10
Pacific Cod	2010	9	8	17	1	89	90	9	97	107
	2011	9	8	17	1	117	119	10	126	136
	2012	11	5	15	1	131	132	11	136	147
	2013	10	3	13	2	125	127	12	128	140
	2014	10	6	16	2	125	128	12	131	143
Hook & Line Flatfish	2010	0	0	0	0	4	5	0	5	5
	2011	0	0	0	0	4	4	0	4	5
	2012	0	0	0	0	5	5	0	5	5
	2013	0	0	1	0	3	3	1	3	4
	2014	0	0	0	0	4	4	0	4	4
Rockfish	2010	1	0	1	0	1	1	1	1	2
	2011	1	0	1	0	0	0	1	0	1
	2012	1	0	1	0	0	0	1	0	2
	2013	2	0	2	0	0	0	2	0	3
	2014	1	0	2	0	0	0	2	0	2
All Groundfish	2010	20	11	31	2	112	113	22	122	144
	2011	22	10	32	2	146	148	24	156	180
	2012	24	6	31	2	162	164	26	168	194
	2013	30	5	34	3	156	158	32	160	193
	2014	25	8	33	4	159	163	29	166	196

Continued on next page.

Table 2: Continued

		Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
	Year	Catcher Vessels	Catcher Processors	Total	Catcher Vessels	Catcher Processors	Total	Catcher Vessels	Catcher Processors	Total	
Pot	Pacific Cod	2010	20	-	20	17	3	20	37	3	40
		2011	29	*	29	25	3	28	54	3	57
		2012	21	*	21	23	5	29	45	5	50
		2013	17	-	17	23	7	30	40	7	47
		2014	20	-	20	24	8	31	44	8	51
Trawl	Pollock	2010	73	1	75	424	383	807	498	384	882
		2011	78	2	80	632	562	1,195	710	564	1,274
		2012	99	1	101	634	567	1,201	733	568	1,302
		2013	91	2	93	662	605	1,267	753	607	1,360
		2014	138	2	140	670	623	1,293	808	624	1,433
Trawl	Sablefish	2010	0	0	1	0	0	0	0	0	1
		2011	1	1	1	0	0	0	1	1	1
		2012	0	0	1	*	0	0	0	1	1
		2013	0	0	1	0	0	0	0	1	1
		2014	0	0	1	*	0	0	0	0	1
Trawl	Pacific Cod	2010	20	1	22	28	30	58	49	31	79
		2011	15	1	16	39	33	72	54	34	89
		2012	19	1	20	46	37	83	65	39	103
		2013	20	1	21	42	45	87	62	46	108
		2014	24	2	26	41	36	77	65	38	103
Trawl	Flatfish	2010	22	11	33	4	244	249	27	255	282
		2011	23	17	39	7	272	278	29	288	318
		2012	16	11	27	6	272	278	22	282	305
		2013	20	12	31	4	275	279	24	287	311
		2014	20	24	44	4	260	264	25	284	309

Continued on next page.

Table 2: Continued

		Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
		Catcher Vessels	Catcher Processors	Total	Catcher Vessels	Catcher Processors	Total	Catcher Vessels	Catcher Processors	Total	
		Year									
Trawl	Rockfish	2010	9	14	24	0	21	22	10	36	45
		2011	9	13	22	1	26	27	10	39	49
		2012	11	15	26	0	25	26	12	40	52
		2013	10	13	23	0	32	32	10	45	55
		2014	12	15	27	0	33	33	12	48	60
	Atka Mackerel	2010	0	2	2	0	65	65	0	67	67
		2011	0	1	1	5	46	52	5	48	53
		2012	0	1	1	1	43	44	1	44	45
		2013	0	1	1	0	21	21	0	23	23
		2014	0	1	1	0	28	28	0	29	29
All Groundfish	2010	129	30	159	458	753	1,211	587	783	1,370	
	2011	127	35	162	686	949	1,635	813	984	1,797	
	2012	148	30	179	689	954	1,642	837	984	1,821	
	2013	144	30	173	710	989	1,698	854	1,018	1,872	
	2014	196	44	241	718	987	1,706	915	1,032	1,946	
All Gear	All Groundfish	2010	170	41	211	477	868	1,345	647	908	1,556
		2011	180	45	224	714	1,098	1,812	893	1,143	2,036
		2012	195	36	231	714	1,121	1,835	909	1,157	2,066
		2013	191	34	225	736	1,151	1,888	927	1,186	2,113
		2014	243	52	295	747	1,154	1,901	990	1,206	2,196

**Notes:** The estimates are of total catch (i.e., retained and discarded catch). All groundfish include additional species categories. These estimates include only catch counted against federal TACs. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch Accounting System estimates (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 3: Gulf of Alaska groundfish catch by species, gear, and target fishery, 2013-2014 (1,000 metric tons, round weight).

	Target	Pollock	Sablefish	Pacific Cod	Arrowtooth	Flathead Sole	Rex Sole	Flat Deep	Flat Shallow	Rockfish	Atka Mackerel	All Species
Hook & Line	Pollock, Bottom	*	-	*	-	-	-	-	-	-	-	*
	Sablefish	0	10.2	0.1	0.3	0	0	0	0	1.5	-	13.8
	Pacific Cod	0.1	0	11.3	0.1	0	-	0	0	0	*	13.4
	Rockfish	-	*	0	-	-	-	-	-	0.2	-	0.2
	All Targets	0.1	11.1	13.3	0.5	0	0	0	0	2.1	0	34.2
2013 Pot	Pacific Cod	0	0	17.0	0	0	*	0	0	0	0	17.5
	All Targets	0	0	17.0	0	0	*	0	0	0	0	17.5
Trawl	Pollock, Bottom	13.1	0	0.8	1.5	0.3	0.1	0	0.2	0.3	*	16.8
	Pollock, Pelagic	75.7	0	0.2	0.3	0.1	0	*	0	0.1	-	76.7
	Sablefish	0	0.2	0	0.1	0	0	0	0	0.1	0	0.5
	Pacific Cod	0.7	0	16.1	1.3	0.4	0.1	0	1.0	0.2	0	20.2
	Arrowtooth	1.3	0.1	1.0	14.2	0.9	1.3	0	0.3	0.9	0	21.5
	Flathead Sole	0.1	0	0.1	1.0	0.5	0.1	*	0	0.1	*	1.9
	Rex Sole	0.1	0	0.2	1.0	0.2	1.8	0	0	0.8	*	4.4
	Flatfish, Shallow	0.9	0	2.1	0.4	0.2	0	0	2.8	0	*	7.1
	Rockfish	0.8	0.5	0.6	0.8	0	0.1	0	0	20.1	1.2	24.3
	All Targets	92.9	0.8	21.1	20.6	2.6	3.7	0.1	4.4	22.5	1.2	173.4

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Table 3: Continued

	Target	Pollock	Sablefish	Pacific Cod	Arrowtooth	Flathead Sole	Rex Sole	Flat Deep	Flat Shallow	Rockfish	Atka Mackerel	All Species
Hook & Line	Pollock, Bottom	*	-	-	-	-	-	-	-	*	-	*
	Sablefish	0	8.8	0.1	0.2	0	-	0	0	1.1	-	10.7
	Pacific Cod	0.2	0	14.6	0	0	-	0	0	0.1	0	17.6
	Rockfish	0	*	0	-	-	-	-	-	0.1	-	0.1
	All Targets	0.2	9.5	15.8	0.3	0	-	0	0	1.5	0	32.7
Pot 2014	Sablefish	-	-	*	-	-	-	-	-	-	-	*
	Pacific Cod	0	0	20.0	0	0	*	-	0	0	0	21.4
	All Targets	0	0	20.0	0	0	*	-	0	0	0	21.4
Trawl	Pollock, Bottom	18.7	0	2.8	2.2	0.3	0.3	0	0.2	0.2	*	25.4
	Pollock, Pelagic	116.5	0	0.5	0.2	0.1	0	0	0	0.4	*	117.8
	Sablefish	0	0.1	0	0	0	0	0	0	0	-	0.2
	Pacific Cod	1.3	0	17.2	1.3	0.3	0.1	0	0.9	0.1	0	21.5
	Arrowtooth	1.5	0.2	3.0	29.4	1.3	1.8	0.1	0.7	2.6	0.5	42.2
	Flathead Sole	*	*	*	*	*	*	*	*	*	-	*
	Rex Sole	0	0	0.1	0.2	0	0.4	0	0	0.1	*	0.8
	Flatfish, Shallow	0.3	0	1.8	0.4	0.2	0	0	1.9	0	*	4.9
	Rockfish	1.3	0.5	0.6	1.4	0	0.1	0.1	0	23.2	0.4	27.9
	All Targets	139.7	0.9	26.1	35.1	2.2	2.7	0.3	3.8	26.7	1.0	240.7
All Gear	All Targets	139.9	10.4	61.8	35.4	2.2	2.7	0.3	3.8	28.3	1.0	294.8

**Notes:** Totals may include additional categories. The target, determined by AKR staff, is based on processor, trip, processing mode, NMFS area, and gear. These estimates include only catch counted against federal TACs. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch-accounting system estimates (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4: Bering Sea and Aleutian Islands groundfish catch by species, gear, and target fishery, 2013-2014, (1,000 metric tons, round weight).

	Target	Pollock	Sablefish	Pacific Cod	Arrowtooth	Kamchatka Flounder	Flathead Sole	Rock Sole	Yellowfin	Flat Other	Rockfish	Atka Mackerel	All Species		
2013	Hook & Line	Pollock, Bottom	*	-	*	*	-	*	-	*	-	-	*		
		Sablefish	*	0.9	0	0	0	*	-	-	0	0.2	*	1.3	
		Pacific Cod	5.1	0	126.1	0.6	0	0.4	0	1.4	0	0.1	0	155.3	
		Turbot	*	0	*	0	0.1	0	*	*	*	0	-	0.7	
		Rockfish	*	0	*	*	*	*	-	-	*	0	-	0	
		All Targets	5.1	1.1	126.6	0.6	0.2	0.4	0	1.4	0	0.4	0	158.5	
2013	Pot	Sablefish	*	*	*	*	*	-	-	-	*	*	-	*	
		Pacific Cod	0	0	30.3	0	0	0	0	0.3	0	0	0	31.0	
		All Targets	0	0	30.3	0	0	0	0	0.3	0	0	0	31.0	
2013	Trawl	Pollock, Bottom	74.9	*	3.0	0.7	0.1	1.6	4.4	1.5	0.2	0.2	0.1	87.6	
		Pollock, Pelagic	1,155.2	*	5.9	0.4	0	1.6	2.0	0.5	0.1	0.5	0	1,167.3	
		Sablefish	*	*	-	*	*	*	-	-	*	*	-	*	
		Pacific Cod	4.0	0	43.1	0.3	0	0.2	1.0	2.7	0.6	0.1	0	52.6	
		Arrowtooth	2.3	0.1	0.5	12.2	2.6	0.6	0	0	0.5	0.8	0.2	20.9	
		Kamchatka Flounder	0.5	0	0	1.2	2.8	*	*	*	0	0.2	0.1	5.1	
		Flathead Sole	2.0	*	1.1	0.6	0.1	6.6	2.1	1.3	0.4	0.3	0	14.8	
		Rock Sole	7.3	-	8.6	0.7	0.1	2.0	42.3	8.5	4.6	0	*	76.0	
		Turbot	*	*	*	*	*	*	-	-	*	*	-	*	
		Yellowfin	18.9	-	22.8	1.9	0.1	3.9	7.4	135.6	15.0	0	0	210.1	
		Other Flatfish	0.4	*	0.5	0.1	0	0	0.1	1.3	2.2	*	-	4.7	
		Rockfish	1.3	0	0.5	1.0	1.1	0	0	0	0.1	25.2	2.7	32.5	
		Atka Mackerel	0.5	0	0.8	0.6	0.6	0	0	0	*	0	5.1	18.4	26.6
		All Targets	1,267.3	0.2	87.0	19.7	7.6	16.7	59.3	151.4	23.7	32.4	21.5	1,698.2	

Continued on next page.

Table 4: Continued

	Target	Pollock	Sablefish	Pacific Cod	Arrowtooth	Kamchatka Flounder	Flathead Sole	Rock Sole	Yellowfin	Flat Other	Rockfish	Atka Mackerel	All Species	
Hook & Line	Sablefish	*	0.7	*	0	0	*	-	-	0	0.2	0	1.1	
	Pacific Cod	6.0	0	127.5	0.5	0	0.6	0.1	1.9	0	0.1	0	159.8	
	Turbot	0	0	*	0	0	0	-	-	*	0	-	0.8	
	Rockfish	-	*	*	*	*	-	-	-	-	*	-	*	
	All Targets	6.0	0.7	127.7	0.6	0.1	0.6	0.1	1.9	0.1	0.4	0	163.0	
Pot	Sablefish	-	*	-	*	*	-	-	-	-	*	-	*	
	Pacific Cod	0	-	31.2	0	*	0	0	0.4	0	0	0	32.2	
	All Targets	0	*	31.2	0	*	0	0	0.4	0	0	0	32.2	
2014	Pollock, Bottom	47.7	0	1.1	0.3	0.1	0.6	1.9	1.2	0.3	0.2	0.1	54.2	
	Pollock, Pelagic	1,196.1	*	4.1	0.5	0.1	2.0	2.5	0.8	0.2	1.2	0	1,209.2	
	Sablefish	*	*	-	*	-	*	*	-	*	*	-	*	
	Pacific Cod	5.5	*	42.6	0.2	0	0.2	1.5	1.5	0.7	0	0	52.8	
	Arrowtooth	2.7	0	0.4	10.1	2.1	0.9	0	0	0.6	0.8	0.5	19.0	
	Kamchatka Flounder	0.4	0	0	1.0	2.0	*	*	*	0	0.1	0	3.8	
	Flathead Sole	4.1	-	2.3	1.7	0.2	6.9	1.7	2.9	1.0	0.1	*	21.3	
	Rock Sole	11.2	*	10.9	0.7	0.1	1.3	36.9	8.7	3.6	0	*	74.9	
	Turbot	*	*	*	*	*	*	*	*	*	*	*	-	*
	Yellowfin	23.8	*	14.3	2.1	0.5	3.9	6.8	133.9	16.4	0	*	204.7	
	Other Flatfish	0	-	0	0	0	*	*	*	0	0	*	0.1	
	Rockfish	0.9	0	0.3	0.7	0.6	0	0	0	0.1	25.3	1.8	30.1	
	Atka Mackerel	0.6	0	0.9	1.0	0.6	*	0	-	0	5.7	25.8	35.4	
	All Targets	1,293.1	0.1	76.9	18.3	6.3	15.8	51.3	148.9	22.9	33.4	28.2	1,705.6	
	All Gear	All Targets	1,299.1	0.8	235.8	19.0	6.4	16.4	51.4	151.1	22.9	33.9	28.2	1,900.9

**Notes:** Totals may include additional categories. The target, determined by AKR staff, is based on processor, trip, processing mode, NMFS area, and gear. These estimates include only catch counted against federal TACs. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch-accounting system estimates (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 5: Groundfish catch off Alaska by area, residency, and species, 2010-2014, (1,000 metric tons, round weight).

	Year	Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska	
		Alaska	Other	Alaska	Other	Alaska	Other
Pollock	2010	36	39	136	676	172	714
	2011	33	47	181	1,019	215	1,066
	2012	41	61	173	1,034	213	1,094
	2013	33	60	189	1,085	222	1,145
	2014	54	86	185	1,115	239	1,201
Sablefish	2010	5	5	1	1	6	6
	2011	6	5	1	1	7	6
	2012	6	6	1	1	7	7
	2013	6	6	1	1	7	7
	2014	6	5	0	1	6	6
Pacific Cod	2010	35	24	43	125	77	149
	2011	41	22	52	167	94	189
	2012	38	18	57	189	95	207
	2013	31	21	58	187	89	209
	2014	39	24	54	183	92	207
Flatfish	2010	13	25	67	187	80	211
	2011	10	31	23	263	33	294
	2012	7	23	5	287	11	309
	2013	8	26	17	280	25	306
	2014	8	40	16	260	24	299
Rockfish	2010	7	18	1	23	8	41
	2011	5	18	1	27	5	46
	2012	6	21	0	28	6	49
	2013	6	19	0	35	6	53
	2014	6	22	0	36	7	58
Atka Mackerel	2010	0	2	0	69	0	71
	2011	0	2	0	52	0	53
	2012	0	1	0	48	0	49
	2013	0	1	0	23	0	24
	2014	0	1	0	31	0	32
All Groundfish	2010	101	116	252	1,099	353	1,215
	2011	98	128	264	1,554	362	1,682
	2012	101	133	241	1,612	342	1,744
	2013	91	138	272	1,638	363	1,776
	2014	119	181	264	1,652	382	1,833

**Notes:** These estimates include only catch counted against federal TACs. Catch delivered to motherships is classified by the residence of the owner of the mothership. All other catch is classified by the residence of the owner of the fishing vessel. All groundfish include additional species categories. Other includes catch by vessels for which residency information was unavailable.

**Source:** NMFS Alaska Region Catch Accounting System estimates, fish tickets, CFEC vessel data (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.



Table 6: Discards and discard rates for groundfish catch off Alaska by area, gear, and species, 2010-2014, (1,000 metric tons, round weight).

	Year	Fixed		Trawl		All Gear		
		Total Discards	Discard Rate	Total Discards	Discard Rate	Total Discards	Discard Rate	
Gulf of Alaska	Pollock	2010	0.2	45 %	1.0	1 %	1.1	1 %
		2011	0	21 %	2.0	2 %	2.0	2 %
		2012	0	21 %	1.9	2 %	2.0	2 %
		2013	0.1	32 %	2.4	2 %	2.4	3 %
		2014	0.1	31 %	1.4	1 %	1.5	1 %
	Sablefish	2010	0.4	4 %	0	5 %	0.4	4 %
		2011	0.4	4 %	0.2	16 %	0.6	5 %
		2012	0.3	2 %	0.1	8 %	0.3	3 %
		2013	0.7	6 %	0	6 %	0.8	6 %
		2014	0.5	5 %	0.1	8 %	0.6	5 %
	Pacific Cod	2010	0.5	1 %	2.4	11 %	2.9	4 %
		2011	1.4	2 %	0.7	4 %	2.1	2 %
		2012	0.3	0 %	0.7	3 %	1.0	1 %
		2013	2.3	5 %	2.3	11 %	4.6	7 %
		2014	1.7	3 %	3.5	13 %	5.2	6 %
Flatfish	2010	0.3	92 %	10.2	27 %	10.5	28 %	
	2011	0.3	91 %	7.6	19 %	7.9	19 %	
	2012	0.3	90 %	5.7	19 %	5.9	20 %	
	2013	0.5	97 %	5.8	17 %	6.3	19 %	
	2014	0.3	96 %	3.9	8 %	4.2	9 %	
Rockfish	2010	0.5	31 %	1.3	6 %	1.8	7 %	
	2011	0.3	27 %	1.6	7 %	1.9	8 %	
	2012	0.5	29 %	1.6	6 %	2.0	7 %	
	2013	1.1	48 %	1.8	8 %	2.9	12 %	
	2014	0.7	40 %	2.3	8 %	2.9	10 %	
Atka Mackerel	2010	0.1	100 %	1.2	49 %	1.2	51 %	
	2011	0	99 %	0.5	35 %	0.5	35 %	
	2012	0	86 %	0.5	42 %	0.5	42 %	
	2013	0	99 %	0.4	36 %	0.4	36 %	
	2014	0	97 %	0.1	7 %	0.1	7 %	
All Groundfish	2010	4.1	6 %	17.6	11 %	21.7	9 %	
	2011	5.3	6 %	13.5	8 %	18.8	8 %	
	2012	3.2	4 %	11.6	6 %	14.8	6 %	
	2013	12.5	14 %	14.3	8 %	26.8	10 %	
	2014	9.7	10 %	12.8	5 %	22.5	7 %	

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Table 6: Continued

		Fixed		Trawl		All Gear		
	Year	Total Discards	Discard Rate	Total Discards	Discard Rate	Total Discards	Discard Rate	
Bering Sea & Aleutian Islands	Pollock	2010	0.8	20 %	3.1	0 %	3.9	0 %
		2011	0.8	15 %	4.0	0 %	4.9	0 %
		2012	0.5	10 %	5.0	0 %	5.5	0 %
		2013	0.6	12 %	4.9	0 %	5.5	0 %
		2014	0.6	10 %	13.9	1 %	14.5	1 %
	Sablefish	2010	0	3 %	0	3 %	0	3 %
		2011	0	1 %	0	4 %	0	1 %
		2012	0	1 %	0	1 %	0	1 %
		2013	0	2 %	0	1 %	0	2 %
		2014	0	5 %	0	2 %	0	4 %
	Pacific Cod	2010	1.6	1 %	1.4	2 %	2.9	2 %
		2011	1.9	1 %	0.5	1 %	2.5	1 %
		2012	1.9	1 %	0.9	1 %	2.8	1 %
		2013	3.7	2 %	1.5	2 %	5.2	2 %
		2014	3.3	2 %	0.6	1 %	3.9	2 %
	Flatfish	2010	1.9	41 %	22.8	9 %	24.6	10 %
		2011	2.1	47 %	22.3	8 %	24.5	9 %
		2012	2.6	49 %	18.9	7 %	21.5	7 %
		2013	2.9	79 %	22.5	8 %	25.4	9 %
		2014	3.5	81 %	14.7	5 %	18.2	7 %
Rockfish	2010	0.3	42 %	1.5	7 %	1.8	8 %	
	2011	0.1	36 %	1.0	4 %	1.1	4 %	
	2012	0.1	25 %	1.4	5 %	1.5	5 %	
	2013	0.2	60 %	0.9	3 %	1.1	3 %	
	2014	0.3	68 %	1.2	3 %	1.5	4 %	
Atka Mackerel	2010	0.1	52 %	3.9	6 %	4.0	6 %	
	2011	0	81 %	1.7	3 %	1.8	3 %	
	2012	0	54 %	1.3	3 %	1.3	3 %	
	2013	0	92 %	0.7	3 %	0.7	3 %	
	2014	0	95 %	0.4	1 %	0.4	1 %	
All Groundfish	2010	14.4	11 %	40.2	3 %	54.6	4 %	
	2011	20.5	12 %	37.6	2 %	58.1	3 %	
	2012	20.4	10 %	35.8	2 %	56.2	3 %	
	2013	24.1	12 %	39.0	2 %	63.2	3 %	
	2014	26.0	12 %	37.9	2 %	63.9	3 %	

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Table 6: Continued

	Year	Fixed		Trawl		All Gear	
		Total Discards	Discard Rate	Total Discards	Discard Rate	Total Discards	Discard Rate
Pollock	2010	1.0	22 %	4.0	0 %	5.0	1 %
	2011	0.9	16 %	6.0	0 %	6.8	1 %
	2012	0.5	11 %	6.9	1 %	7.4	1 %
	2013	0.7	13 %	7.3	1 %	7.9	1 %
	2014	0.7	11 %	15.3	1 %	16.0	1 %
Sablefish	2010	0.4	4 %	0	5 %	0.5	4 %
	2011	0.5	4 %	0.2	15 %	0.6	5 %
	2012	0.3	2 %	0.1	6 %	0.3	2 %
	2013	0.8	6 %	0	5 %	0.8	6 %
	2014	0.5	5 %	0.1	8 %	0.6	5 %
Pacific Cod	2010	2.0	1 %	3.7	5 %	5.8	2 %
	2011	3.3	2 %	1.2	1 %	4.5	1 %
	2012	2.2	1 %	1.6	1 %	3.7	1 %
	2013	6.0	3 %	3.8	3 %	9.8	3 %
	2014	5.0	2 %	4.2	4 %	9.1	3 %
All Alaska Flatfish	2010	2.2	44 %	33.0	12 %	35.2	12 %
	2011	2.4	50 %	29.9	9 %	32.3	10 %
	2012	2.9	52 %	24.5	8 %	27.4	9 %
	2013	3.5	82 %	28.3	9 %	31.8	10 %
	2014	3.9	82 %	18.6	6 %	22.5	7 %
Rockfish	2010	0.7	34 %	2.8	6 %	3.6	7 %
	2011	0.4	28 %	2.6	5 %	3.1	6 %
	2012	0.5	28 %	3.0	6 %	3.5	6 %
	2013	1.4	50 %	2.6	5 %	4.0	7 %
	2014	1.0	46 %	3.5	6 %	4.4	7 %
Atka Mackerel	2010	0.1	67 %	5.1	7 %	5.2	7 %
	2011	0	84 %	2.2	4 %	2.3	4 %
	2012	0	63 %	1.8	4 %	1.8	4 %
	2013	0	93 %	1.1	5 %	1.1	5 %
	2014	0	96 %	0.4	1 %	0.5	1 %
All Groundfish	2010	18.5	9 %	57.8	4 %	76.3	5 %
	2011	25.8	10 %	51.1	3 %	77.0	4 %
	2012	23.6	9 %	47.3	3 %	71.0	3 %
	2013	36.7	13 %	53.3	3 %	90.0	4 %
	2014	35.7	12 %	50.8	3 %	86.5	4 %

**Notes:** All groundfish and all gear may include additional species or gear types. Although these are the best available estimates of discards and are used for several management purposes, these estimates are not necessarily accurate. The reasons for this are as follows: 1) they are wholly or partially derived from observer estimates; 2) discards occur at many different places on vessels; 3) observers record are an approximation of what they see; 4) the sampling methods used by at-sea observers provide the basis for NMFS to make good estimates of total catch by species, not the disposition of that catch. 5) catch is only partially observed by the Observer Program. There were substantial changes to the observer program in 2013 that could affect the comparability of 2013 and later years, to previous years.

**Source:** NMFS Alaska Region Catch-accounting system estimates (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 7: Gulf of Alaska groundfish discards by species, gear, and target fishery, 2013-2014, (metric tons, round weight).

	Target	Pollock	Sablefish	Pacific Cod	Arrowtooth	Flathead Sole	Flat Shallow	Atka Mackerel	All Species	
2013	Hook & Line	Sablefish	6	431	93	255	4	7	-	3,472
		Pacific Cod	25	74	237	109	15	9	*	1,947
		Rockfish	-	0	0	-	-	-	-	0
		All Targets	42	737	2,202	481	19	24	1	12,137
	Pot	Sablefish	-	0	*	-	-	-	-	0
		Pacific Cod	8	0	117	1	0	2	3	381
		All Targets	8	0	117	1	0	2	3	381
	Trawl	Pollock, Bottom	228	0	1	669	56	6	0	1,202
		Pollock, Pelagic	166	0	0	15	1	0	-	230
		Sablefish	2	0	0	95	0	0	0	170
		Pacific Cod	72	0	41	767	234	162	19	1,611
		Arrowtooth	634	9	261	986	3	5	4	2,530
		Flathead Sole	78	0	23	926	10	1	*	1,062
	Rex Sole	0	1	3	719	6	4	*	1,323	
	Flatfish, Shallow	1,085	2	1,876	660	1	28	*	4,307	
	Rockfish	126	35	103	251	4	11	403	1,872	
	All Targets	2,391	47	2,308	5,088	316	218	427	14,307	

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Table 7: Continued

	Target	Pollock	Sablefish	Pacific Cod	Arrowtooth	Flathead Sole	Flat Shallow	Atka Mackerel	All Species
Hook & Line	Sablefish	1	366	69	162	0	1	-	1,709
	Pacific Cod	57	7	335	43	18	18	2	2,945
	Rockfish	0	0	0	-	-	-	-	0
	All Targets	76	509	1,430	262	19	22	3	8,586
2014 Pot	Sablefish	-	*	*	-	-	-	-	*
	Pacific Cod	8	2	250	1	0	2	5	1,136
	All Targets	8	2	250	1	0	2	5	1,136
Trawl	Pollock, Bottom	25	0	6	921	4	0	*	1,336
	Pollock, Pelagic	529	0	1	8	2	0	*	857
	Sablefish	1	0	0	31	0	1	-	59
	Pacific Cod	26	3	57	779	101	303	0	1,503
	Arrowtooth	394	44	1,562	840	23	32	7	4,605
	Flathead Sole	0	*	0	24	0	0	-	27
	Rex Sole	1	0	34	275	1	1	*	721
	Flatfish, Shallow	245	10	1,802	165	4	75	14	2,630
	Rockfish	167	19	81	180	4	4	47	1,082
	All Targets	1,386	76	3,544	3,224	139	418	68	12,819
	All Gear All Targets	1,470	587	5,224	3,487	158	442	76	22,541

**Notes:** Totals may include additional categories. The target, determined by AKR staff, is based on processor, trip, processing mode, NMFS area, and gear. These estimates include only catch counted against federal TACs. Although these are the best available estimates of discards and are used for several management purposes, these estimates are not necessarily accurate. The reasons for this are as follows: 1) they are wholly or partially derived from observer estimates; 2) discards occur at many different places on vessels; 3) observers record only a rough approximation of what they see; and 4) the sampling methods used by at-sea observers provide NMFS the basis to make good estimates of total catch by species, not the disposition of that catch. There were substantial changes to the observer program in 2013 that could affect the comparability of 2013 and later years, to previous years. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch-accounting system estimates (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 8: Bering Sea and Aleutian Islands groundfish discards by species, gear, and target fishery, 2013-2014, (metric tons, round weight).

	Target	Pollock	Sablefish	Pacific Cod	Arrowtooth	Kamchatka Flounder	Flathead Sole	Rock Sole	Turbot	Yellowfin	Flat Other	Rockfish	Atka Mackerel	All Species
Hook & Line	Sablefish	*	13	5	11	29	0	-	37	-	12	62	*	282
	Pacific Cod	611	2	3,093	471	42	371	33	3	1,422	11	106	23	21,847
	Turbot	*	1	*	6	51	5	*	13	*	*	4	-	132
	Rockfish	*	0	*	*	*	*	-	4	-	*	1	-	5
	All Targets	611	26	3,560	511	141	377	34	83	1,422	31	240	23	23,307
2013 Pot	Sablefish	*	*	*	*	*	-	-	*	-	*	*	-	*
	Pacific Cod	6	0	102	2	0	0	1	-	298	2	6	3	843
	All Targets	6	0	102	2	0	0	1	*	298	2	6	3	843
2013 Trawl	Pollock, Bottom	89	0	12	249	16	83	230	1	250	81	52	9	1,489
	Pollock, Pelagic	265	*	4	102	11	605	1,080	5	484	19	103	0	3,414
	Sablefish	*	*	-	*	*	*	-	*	-	*	*	-	*
	Pacific Cod	1,177	0	306	264	14	121	306	2	351	506	16	2	3,689
	Arrowtooth	399	1	3	390	232	21	1	175	0	7	127	2	1,736
	Kamchatka Flounder	3	0	0	5	15	*	*	33	*	1	1	0	172
	Flathead Sole	243	*	27	122	24	107	39	15	66	195	9	0	1,104
	Rock Sole	484	-	270	496	84	92	1,192	2	216	1,220	2	*	5,768
	Turbot	*	*	*	*	*	*	-	*	-	*	*	-	*
	Yellowfin	2,088	-	868	1,123	77	139	282	25	3,041	7,692	5	0	18,918
	Other Flatfish	2	*	2	11	1	6	2	0	32	105	*	-	242
	Rockfish	59	0	32	247	104	15	11	6	1	11	267	213	1,266
	Atka Mackerel	54	0	4	30	42	0	7	2	*	0	289	448	1,219
	All Targets	4,862	3	1,529	3,038	619	1,188	3,149	267	4,441	9,838	871	675	39,019

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Table 8: Continued

	Target	Pollock	Sablefish	Pacific Cod	Arrowtooth	Kamchatka Flounder	Flathead Sole	Rock Sole	Turbot	Yellowfin	Flat Other	Rockfish	Atka Mackerel	All Species	
Hook & Line	Sablefish	*	13	0	28	24	*	-	43	-	9	115	0	322	
	Pacific Cod	616	1	2,898	469	40	544	52	5	1,812	36	84	4	23,147	
	Turbot	1	0	*	17	38	7	-	16	-	*	2	-	126	
	Rockfish	-	*	*	*	*	-	-	*	-	-	1	-	1	
	All Targets	617	33	3,116	529	114	552	53	67	1,813	53	280	4	24,846	
2014 Pot	Sablefish	-	*	-	*	*	-	-	*	-	-	*	-	*	
	Pacific Cod	11	-	156	1	*	0	2	*	351	0	4	7	1,122	
	All Targets	11	*	156	1	*	0	2	*	351	0	4	7	1,122	
2014 Trawl	Pollock, Bottom	252	0	2	26	6	5	9	4	31	56	90	1	677	
	Pollock, Pelagic	456	*	4	116	19	469	804	3	302	24	639	5	4,102	
	Sablefish	*	*	-	*	-	*	*	-	-	*	*	-	*	
	Pacific Cod	2,527	*	214	189	18	111	465	2	81	144	19	2	4,268	
	Arrowtooth	455	0	1	153	47	15	2	127	0	13	75	0	1,187	
	Kamchatka Flounder	54	0	0	3	6	*	*	2	*	1	0	0	167	
	Flathead Sole	910	-	18	219	41	79	19	13	78	109	0	*	1,866	
	Rock Sole	2,523	*	196	316	50	14	379	3	123	1,391	1	*	6,279	
	Turbot	*	*	*	*	*	*	*	*	*	*	*	*	-	*
	Yellowfin	6,553	*	157	639	153	133	183	35	1,834	5,353	1	*	17,472	
	Other Flatfish	0	-	0	0	0	*	*	*	*	0	2	*	4	
	Rockfish	93	1	28	116	59	7	7	1	0	10	237	254	1,055	
	Atka Mackerel	95	0	9	29	23	*	11	0	-	1	143	113	869	
	All Targets	13,919	1	629	1,806	423	834	1,879	190	2,449	7,101	1,208	376	37,946	
	All Gear	All Targets	14,547	35	3,900	2,336	537	1,386	1,933	257	4,614	7,154	1,492	386	63,914

**Notes:** Totals may include additional categories. The target, determined by AKR staff, is based on processor, trip, processing mode, NMFS area, and gear. These estimates include only catch counted against federal TACs. Although these are the best available estimates of discards and are used for several management purposes, these estimates are not necessarily accurate. The reasons for this are discussed in the Notes for Table 7. There were substantial changes to the observer program in 2013 that could affect the comparability of 2013 and later years, to previous years. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch-accounting system estimates (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 9: Gulf of Alaska groundfish discard rates by species, gear, and target fishery, 2013-2014 (percent).

	Target	Pollock	Sablefish	Pacific Cod	Arrowtooth	Flathead Sole	Rex Sole	Flat Deep	Flat Shallow	Rockfish	Atka Mackerel	All Species	
2013	Hook & Line	Sablefish	100	4	69	94	100	100	96	99	55	-	21
		Pacific Cod	21	97	2	100	100	-	100	98	29	*	12
		Rockfish	-	0	0	-	-	-	-	-	0	-	0
		All Targets	30	6	14	97	100	100	96	99	48	100	20
	Pot	Sablefish	-	0	*	-	-	-	-	-	*	-	0
		Pacific Cod	41	100	0	100	29	*	100	99	99	99	1
		All Targets	41	1	0	100	29	*	100	99	99	99	1
	Trawl	Pollock, Bottom	2	1	0	46	18	4	1	4	22	12	7
		Pollock, Pelagic	0	0	0	5	1	1	*	1	2	-	0
		Sablefish	88	0	1	95	47	71	46	3	49	100	37
		Pacific Cod	10	0	0	57	57	16	77	17	51	100	8
		Arrowtooth	49	12	25	7	0	0	36	2	40	23	12
Flathead Sole		72	2	23	91	2	1	*	2	18	*	55	
Rex Sole		0	10	1	74	3	0	87	28	65	*	30	
Flatfish, Shallow		67	20	71	70	0	1	60	1	27	*	41	
Rockfish		15	7	18	33	17	24	58	42	3	35	8	
All Targets		2	6	11	24	11	2	51	4	8	36	8	

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Table 9: Continued

	Target	Pollock	Sablefish	Pacific Cod	Arrowtooth	Flathead Sole	Rex Sole	Flat Deep	Flat Shallow	Rockfish	Atka Mackerel	All Species		
2014	Hook & Line	Sablefish	99	4	60	98	100	-	100	100	39	-	13	
		Pacific Cod	27	25	2	84	100	-	96	100	55	100	14	
		Rockfish	0	0	0	-	-	-	-	-	0	-	0	
		All Targets	33	5	7	96	100	-	100	100	40	100	16	
		Pot	Sablefish	-	*	*	-	-	-	-	-	-	*	
			Pacific Cod	19	100	1	51	24	*	-	100	100	95	3
			All Targets	19	100	1	51	24	*	-	100	100	95	3
		Trawl	Pollock, Bottom	0	0	0	41	1	0	0	0	63	*	5
			Pollock, Pelagic	0	0	0	4	3	5	0	0	76	*	1
			Sablefish	100	0	21	100	99	97	81	75	19	-	26
			Pacific Cod	2	13	0	61	36	14	6	34	0	93	7
			Arrowtooth	26	22	52	3	2	1	29	4	39	1	11
			Flathead Sole	0	*	0	30	0	0	6	0	0	-	5
			Rex Sole	1	0	12	40	1	0	31	4	76	*	25
			Flatfish, Shallow	48	41	79	25	1	1	6	3	4	27	38
			Rockfish	12	4	13	13	13	5	76	14	2	11	4
		All Targets	1	8	13	9	5	1	38	9	8	7	5	
	All Gear	All Targets	1	5	6	10	6	1	41	9	10	7	7	

**Notes:** Totals may include additional categories. The target, determined by AKR staff, is based on processor, trip, processing mode, NMFS area, and gear. These estimates include only catch counted against federal TACs. Although these are the best available estimates of discards and are used for several management purposes, these estimates are not necessarily accurate. The reasons for this are as follows: 1) they are wholly or partially derived from observer estimates; 2) discards occur at many different places on vessels; 3) observers record only a rough approximation of what they see; and 4) the sampling methods used by at-sea observers provide the basis for NMFS to make good estimates of total catch by species, not the disposition of that catch. There were substantial changes to the observer program in 2013 that could affect the comparability of 2013 and later years, to previous years. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch-accounting system estimates (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 10: Bering Sea and Aleutian Islands groundfish discard rates by species, gear, and target fishery, 2013-2014 (percent).

	Target	Pollock	Sablefish	Pacific Cod	Arrowtooth	Kamchatka Flounder	Flathead Sole	Rock Sole	Turbot	Yellowfin	Flat Other	Rockfish	Atka Mackerel	All Species
Hook & Line	Sablefish	*	1	97	80	86	100	-	59	-	100	41	*	21
	Pacific Cod	12	49	2	81	84	100	100	21	100	100	80	91	14
	Turbot	*	12	*	85	85	100	*	2	*	*	19	-	18
	Rockfish	*	0	*	*	*	*	-	88	-	*	11	-	28
	All Targets	12	2	3	82	87	100	100	12	100	90	60	91	14
2013 Pot	Sablefish	*	*	*	*	*	-	-	*	-	*	*	-	*
	Pacific Cod	77	100	0	99	100	64	97	-	100	100	99	98	2
	All Targets	77	100	0	99	100	64	97	*	100	100	99	98	2
2013 Trawl	Pollock, Bottom	0	0	0	37	22	5	5	18	16	46	24	13	2
	Pollock, Pelagic	0	*	0	27	50	38	55	30	89	22	22	15	0
	Sablefish	*	*	-	*	*	*	-	*	-	*	*	-	*
	Pacific Cod	29	36	1	90	74	49	32	93	13	83	31	19	7
	Arrowtooth	18	2	1	3	9	3	4	24	31	2	16	1	8
	Kamchatka Flounder	1	0	1	0	1	*	*	31	*	15	0	0	3
	Flathead Sole	12	*	2	20	21	2	2	39	5	49	3	100	7
	Rock Sole	7	-	3	72	77	5	3	90	3	27	4	*	8
	Turbot	*	*	*	*	*	*	-	*	-	*	*	-	*
	Yellowfin	10	-	4	56	52	3	4	71	2	47	29	100	8
	Other Flatfish	0	*	0	14	8	16	3	1	3	5	*	-	5
	Rockfish	4	1	5	22	9	37	38	11	20	21	1	7	4
	Atka Mackerel	11	2	0	5	7	5	18	5	*	4	6	2	4
	All Targets	0	1	2	15	8	7	5	26	3	39	3	3	2

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Table 10: Continued

	Target	Pollock	Sablefish	Pacific Cod	Arrowtooth	Kamchatka Flounder	Flathead Sole	Rock Sole	Turbot	Yellowfin	Flat Other	Rockfish	Atka Mackerel	All Species	
Hook & Line	Sablefish	*	2	1	96	85	*	-	80	-	100	61	100	28	
	Pacific Cod	10	20	2	86	84	97	100	31	97	99	79	99	14	
	Turbot	74	2	*	38	100	100	-	3	-	*	7	-	16	
	Rockfish	-	*	*	*	*	-	-	*	-	-	19	-	19	
	All Targets	10	5	2	83	91	97	100	10	97	99	67	99	15	
2014 Pot	Sablefish	-	*	-	*	*	-	-	*	-	-	*	-	*	
	Pacific Cod	70	-	0	100	*	67	100	*	100	100	99	94	3	
	All Targets	70	*	0	100	*	67	100	*	100	100	99	94	3	
2014 Trawl	Pollock, Bottom	1	0	0	9	5	1	0	14	3	16	37	1	1	
	Pollock, Pelagic	0	*	0	24	36	24	32	19	40	13	54	27	0	
	Sablefish	*	*	-	*	-	*	*	-	-	*	*	-	*	
	Pacific Cod	46	*	0	84	60	50	32	68	5	21	94	99	8	
	Arrowtooth	17	2	0	2	2	2	9	20	26	2	9	0	6	
	Kamchatka Flounder	13	0	1	0	0	*	*	2	*	16	0	0	4	
	Flathead Sole	22	-	1	13	25	1	1	72	3	11	0	*	9	
	Rock Sole	22	*	2	46	53	1	1	63	1	38	100	*	8	
	Turbot	*	*	*	*	*	*	*	*	*	*	*	*	-	*
	Yellowfin	27	*	1	29	31	3	3	61	1	31	82	*	8	
	Other Flatfish	0	-	0	0	0	*	*	*	*	2	41	*	5	
	Rockfish	8	3	8	17	9	18	31	2	11	14	1	12	3	
	Atka Mackerel	15	5	1	3	4	*	33	1	-	42	2	0	2	
	All Targets	1	2	1	10	7	5	4	20	2	30	3	1	2	
	All Gear	All Targets	1	4	2	12	8	8	4	16	3	30	4	1	3

**Notes:** Totals may include additional categories. The target, determined by AKR staff, is based on processor, trip, processing mode, NMFS area, and gear. These estimates include only catch counted against federal TACs. Although these are the best available estimates of discards and are used for several management purposes, these estimates are not necessarily accurate. The reasons for this are discussed in the Notes for Table 9. There were substantial changes to the observer program in 2013 that could affect the comparability of 2013 and later years, to previous years. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch-accounting system estimates (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 11: Prohibited species catch by species, area and gear, 2010-2014, (metric tons (t) or number in 1,000s).

	Year	Halibut (t)	Herring (t)	Chinook (1,000s)	Other Salmon (1,000s)	Red King Crab (1,000s)	Other King Crab (1,000s)	Bairdi (1,000s)	Other Tanner (1,000s)
Hook & Line	2010	-	-	-	0	-	-	2	0
	2011	-	-	-	0	-	0	6	-
	2012	-	-	-	0	-	0	3	0
	2013	-	-	0	1	0	0	1	-
	2014	-	-	0	0	-	0	0	0
Pot	2010	29	-	-	-	-	-	169	-
	2011	45	-	-	-	-	-	21	-
	2012	42	-	-	-	-	-	167	-
	2013	15	-	-	-	-	-	569	-
	2014	11	-	-	-	-	-	133	-
Trawl	2010	1,634	2	55	2	-	3	91	*
	2011	1,871	11	21	3	-	0	103	-
	2012	1,706	1	21	1	-	0	83	-
	2013	1,228	11	23	5	-	0	243	-
	2014	1,392	6	16	2	-	*	64	-
All Gear	2010	1,663	2	55	2	-	3	261	0
	2011	1,915	11	21	3	-	0	130	-
	2012	1,748	1	21	1	-	0	254	0
	2013	1,243	11	23	6	0	0	813	-
	2014	1,403	6	16	3	-	0	198	0
Hook & Line	2010	574	-	0	0	1	2	10	30
	2011	552	0	0	0	3	2	13	35
	2012	613	0	0	0	3	2	14	28
	2013	521	0	*	0	6	1	16	17
	2014	442	-	0	0	7	1	19	18
Pot	2010	5	-	-	-	2	136	358	770
	2011	7	-	-	-	19	200	298	145
	2012	6	-	-	-	8	*	102	16
	2013	4	-	-	-	101	0	227	14
	2014	4	-	-	-	135	*	519	82
Trawl	2010	2,818	356	12	14	58	13	478	1,706
	2011	2,609	396	28	201	41	52	877	731
	2012	3,118	2,376	13	25	31	25	397	597
	2013	3,078	988	15	131	29	31	677	669
	2014	3,029	186	19	228	30	23	578	448
All Gear	2010	3,397	356	12	14	61	150	846	2,506
	2011	3,168	396	28	201	63	254	1,188	911
	2012	3,736	2,376	13	25	42	27	513	640
	2013	3,603	988	15	131	135	32	919	700
	2014	3,474	186	19	228	172	24	1,117	549
All Alaska	2010	5,060	358	67	16	61	153	1,108	2,506
	2011	5,083	407	49	205	63	254	1,318	911
	2012	5,485	2,377	34	26	42	27	767	640
	2013	4,846	999	38	137	135	32	1,732	700
	2014	4,877	192	35	231	172	24	1,315	549

**Notes:** These estimates include only catches counted against federal TACs. Totals may include additional categories. The estimates of halibut bycatch mortality are based on the IPHC discard mortality rates that were used for in-season management. The halibut IFQ program allows retention of halibut in the hook-and-line groundfish fisheries, making true halibut bycatch numbers unavailable. This is particularly a problem in the GOA for all hook-and-line fisheries and in the BSAI for the sablefish hook-and-line fishery. Therefore, estimates of halibut bycatch mortality are not included in this table for those fisheries. There were substantial changes to the observer program in 2013 that could affect the comparability of 2013 and later years, to previous years. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch-accounting system estimates (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 12: Prohibited species catch in the Gulf of Alaska by species, gear, and groundfish target fishery, 2013-2014, (Metric tons (t) or number in 1,000s).

	Target	Halibut (t)	Herring (t)	Chinook (1,000s)	Other Salmon (1,000s)	Red King Crab (1,000s)	Other King Crab (1,000s)	Bairdi (1,000s)	Other Tanner (1,000s)
Hook & Line	Sablefish	-	-	0	0.5	0	0.1	0.1	-
	Pacific Cod	-	-	-	-	0	0	1.0	-
	All Targets	-	-	0	0.5	0	0.1	1.1	-
Pot	Pacific Cod	15.0	-	-	-	-	-	569.0	-
2013	Pollock, Bottom	136.6	-	3.4	0.1	-	-	8.0	-
	Pollock, Pelagic	20.5	10.5	9.6	0.7	-	-	-	-
	Sablefish	8.4	-	-	*	-	-	-	-
	Pacific Cod	294.6	-	0.4	-	-	-	16.4	-
	Arrowtooth	349.8	-	4.0	1.0	-	-	99.2	-
	Flathead	28.2	-	*	*	-	-	*	-
	Sole	152.7	-	2.6	0.3	-	-	0.8	-
	Rex Sole	162.7	-	0.1	0.5	1.4	-	-	118.6
	Flatfish, Shallow	74.6	-	2.3	2.0	-	0.1	0.1	-
	Rockfish	*	-	*	-	-	-	-	-
	Atka Mackerel	-	-	-	-	-	-	-	-
	All Targets	1,228.2	10.6	22.8	5.4	-	0.1	243.0	-

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Table 12: Continued

	Target	Halibut (t)	Herring (t)	Chinook (1,000s)	Other Salmon (1,000s)	Red King Crab (1,000s)	Other King Crab (1,000s)	Bairdi (1,000s)	Other Tanner (1,000s)	
Hook & Line	Sablefish	-	-	0	0.3	-	0	0	-	
	Pacific Cod	-	-	-	-	-	-	0.2	0	
	All Targets	-	-	0	0.3	-	0	0.2	0	
Pot	Pacific Cod	10.6	-	-	-	-	-	133.2	-	
2014	Trawl	Pollock, Bottom	82.5	-	3.8	0.1	-	-	2.1	-
		Pollock, Pelagic	-	4.6	7.1	1.3	-	-	-	-
		Sablefish	1.1	-	-	-	-	*	-	-
		Pacific Cod	215.5	-	0.3	-	-	-	12.1	-
		Arrowtooth	790.0	0.1	1.0	0.2	-	-	39.2	-
		Flathead Sole	2.3	-	1.2	-	-	-	-	-
		Rex Sole	55.3	-	0.4	0.1	-	-	0.2	-
		Flatfish, Deep	-	-	-	-	-	*	-	-
		Flatfish, Shallow	164.1	0.8	0.7	*	-	-	10.5	-
		Rockfish	81.6	*	1.2	0.6	-	*	0.2	-
		All Targets	1,392.5	5.5	15.7	2.3	-	*	64.3	-
		All Gear	All Targets	1,403.1	5.5	15.7	2.6	-	0	197.8

**Notes:** These estimates include only catches counted against federal TACs. Totals may include additional categories. The target, determined by AKR staff, is based on processor, trip, processing mode, NMFS area and gear. The estimates of halibut PSC mortality are based on the International Pacific Halibut Commission discard mortality rates that were used for in-season management. The halibut Individual Fishing Quota program allows retention of halibut in the hook-and-line groundfish fisheries, making true halibut PSC numbers unavailable. Therefore, estimates of halibut PSC mortality are not included in this table for those fisheries. There were substantial changes to the observer program in 2013 that could affect the comparability of 2013 and later years, to previous years. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch-accounting system estimates (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 13: Prohibited species catch in the Bering Sea and Aleutian Islands by species, gear, and groundfish target fishery, 2013-2014, (Metric tons (t) or number in 1,000s)..

	Target	Halibut (t)	Herring (t)	Chinook (1,000s)	Other Salmon (1,000s)	Red King Crab (1,000s)	Other King Crab (1,000s)	Bairdi (1,000s)	Other Tanner (1,000s)	
2013	Hook & Line	Pollock, Bottom	*	-	-	-	-	*	-	
		Sablefish	-	-	*	0	-	0.5	-	
		Pacific Cod	519.7	0.1	-	0.2	5.6	0.6	16.0	17.4
		Turbot	1.3	-	-	*	-	-	-	*
		Rockfish	*	-	-	-	-	*	-	-
		All Targets	521.0	0.1	*	0.2	5.6	1.1	16.0	17.4
	Pot	Sablefish	*	-	-	-	-	*	*	*
		Pacific Cod	2.2	-	-	-	101.0	0	226.7	13.7
		All Targets	3.7	-	-	-	101.0	0	226.7	13.7
	Trawl	Pollock, Bottom	160.0	0	1.9	1.8	0.3	*	10.6	4.8
		Pollock, Pelagic	111.5	958.9	12.3	127.8	-	0	1.5	3.4
		Sablefish	*	-	-	-	-	-	-	-
		Pacific Cod	364.8	0.2	0.9	0.3	0.4	0	12.3	12.0
		Arrowtooth Kamchatka Flounder	247.6	0.2	-	-	-	9.7	4.0	9.0
		Flathead Sole	39.4	-	-	-	*	2.9	-	-
Sole		130.8	1.7	-	-	0.9	*	71.0	76.3	
Rock Sole		611.8	0.3	-	*	16.9	*	43.1	12.9	
Turbot		*	-	-	-	-	-	-	-	
Yellowfin		1,197.4	26.8	0.4	0.2	10.1	0.4	528.0	543.8	
Other Flatfish		26.3	-	-	-	-	*	5.5	7.3	
Rockfish		110.6	-	*	-	*	14.7	0.6	*	
Atka Mackerel		77.6	*	-	0.5	*	3.3	-	*	
All Targets		3,077.9	988.0	15.4	130.6	28.6	31.0	676.5	669.4	

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Table 13: Continued

	Target	Halibut (t)	Herring (t)	Chinook (1,000s)	Other Salmon (1,000s)	Red King Crab (1,000s)	Other King Crab (1,000s)	Bairdi (1,000s)	Other Tanner (1,000s)
Hook & Line	Sablefish	-	-	-	-	0	0.5	-	-
	Pacific Cod	440.3	-	0	0.2	7.3	0.7	18.9	18.4
	Turbot	1.3	-	-	0.1	-	*	*	*
	Rockfish	*	-	-	-	-	-	-	-
	Other Ground- fish	*	-	-	-	-	-	-	-
	All Targets	441.6	-	0	0.3	7.3	1.2	18.9	18.4
2014 Pot	Sablefish	*	-	-	-	-	*	-	*
	Pacific Cod	3.1	-	-	-	134.6	-	519.4	82.4
	All Targets	3.6	-	-	-	134.6	*	519.4	82.4
Trawl	Pollock, Bottom	80.6	8.2	0.8	1.8	0.3	*	11.0	16.0
	Pollock, Pelagic	119.1	151.3	15.7	223.0	-	-	0.7	2.9
	Sablefish	*	-	-	-	-	-	-	-
	Pacific Cod	331.5	1.1	1.3	*	0.6	*	20.5	12.1
	Arrowtooth	191.0	0.3	-	*	-	5.0	5.4	6.1
	Kamchatka Flounder	14.4	*	-	-	-	8.3	-	*
	Flathead Sole	119.6	*	-	0.7	*	-	84.0	98.9
	Rock Sole	677.2	0.7	0.9	0.5	23.1	0.2	105.0	11.4
	Turbot	-	-	-	-	-	*	-	-
	Yellowfin	1,342.0	24.7	*	1.3	5.7	0.3	351.8	300.8
	Other Flatfish	*	*	-	-	-	-	-	-
	Rockfish	69.5	-	0.3	0.3	*	7.2	*	-
	Atka Mackerel	83.7	-	0.3	0.4	*	2.3	-	-
	All Targets	3,028.5	186.2	19.2	228.0	29.7	23.2	578.5	448.1
All Gear	All Targets	3,473.7	186.2	19.2	228.3	171.7	24.4	1,116.8	548.9

**Notes:** These estimates include only catches counted against federal TACs. Totals may include additional categories. The target, determined by AKR staff, is based on processor, trip, processing mode, NMFS area and gear. The estimates of halibut PSC mortality are based on the International Pacific Halibut Commission discard mortality rates that were used for in-season management. The halibut Individual Fishing Quota program allows retention of halibut in the hook-and-line groundfish fisheries, making true halibut PSC numbers unavailable. This is particularly a problem in the Bering Sea and Aleutian Islands sablefish hook-and-line fishery. Therefore, estimates of halibut PSC mortality are not included in this table for that fishery. There were substantial changes to the observer program in 2013 that could affect the comparability of 2013 and later years, to previous years. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch-accounting system estimates (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.



Table 14: Prohibited species catch rates in the Gulf of Alaska by species, gear, and groundfish target fishery, 2013-2014, (Metric tons per metric ton or numbers per metric ton).

	Target	Halibut (t)	Herring (t)	Chinook (1,000s)	Other Salmon (1,000s)	Red King Crab (1,000s)	Other King Crab (1,000s)	Bairdi (1,000s)	Other Tanner (1,000s)
Hook & Line	Sablefish	-	-	0	0.038	0.002	0.007	0.006	-
	Pacific Cod	-	-	-	-	0.001	0.001	0.075	-
	All Targets	-	-	0	0.019	0.002	0.004	0.040	-
Pot	Pacific Cod	0.001	-	-	-	-	-	32.530	-
2013	Pollock, Bottom	0.008	-	0.201	0.003	-	-	0.477	-
	Pollock, Pelagic	0	0	0.125	0.009	-	-	-	-
	Sablefish	0.018	-	-	*	-	-	-	-
	Pacific Cod	0.015	-	0.019	-	-	-	0.812	-
	Arrowtooth	0.016	-	0.188	0.047	-	-	4.608	-
	Flathead Sole	0.015	-	*	*	-	-	*	-
	Rex Sole	0.035	-	0.594	0.057	-	-	0.172	-
	Flatfish, Shallow	0.016	0	0.046	0.135	-	-	11.397	-
	Rockfish	0.003	-	0.095	0.083	-	0.004	0.003	-
	Atka Mackerel	*	-	*	-	-	-	-	-
	All Targets	0.007	0	0.129	0.031	-	0.001	1.373	-

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Table 14: Continued

	Target	Halibut (t)	Herring (t)	Chinook (1,000s)	Other Salmon (1,000s)	Red King Crab (1,000s)	Other King Crab (1,000s)	Bairdi (1,000s)	Other Tanner (1,000s)		
	Hook & Line										
	Sablefish	-	-	0.004	0.027	-	0.004	0.001	-		
	Pacific Cod	-	-	-	-	-	-	0.014	0		
	All Targets	-	-	0.001	0.010	-	0.001	0.009	0		
	Pot										
	Pacific Cod	0	-	-	-	-	-	6.231	-		
2014	Trawl	Pollock, Bottom	0.003	-	0.149	0.005	-	-	0.081	-	
		Pollock, Pelagic	-	0	0.060	0.011	-	-	-	-	
		Sablefish	0.005	-	-	-	-	*	-	-	
		Pacific Cod	0.010	-	0.013	-	-	-	0.565	-	
		Arrowtooth	0.019	0	0.025	0.005	-	-	0.929	-	
		Flathead Sole	0.004	-	1.946	-	-	-	-	-	
		Rex Sole	0.019	-	0.131	0.040	-	-	0.079	-	
		Flatfish, Deep	-	-	-	-	-	*	-	-	
		Flatfish, Shallow	0.024	0	0.102	*	-	-	1.518	-	
		Rockfish	0.003	*	0.045	0.020	-	*	0.006	-	
		All Targets	0.006	0	0.064	0.009	-	*	0.262	-	
		All Gear	All Targets	0.005	0	0.053	0.009	-	0	0.670	0

**Notes:** These estimates include only catches counted against federal TACs. Totals may include additional categories. The target, determined by AKR staff, is based on processor, trip, processing mode, NMFS area and gear. The estimates of halibut PSC mortality are based on the International Pacific Halibut Commission discard mortality rates that were used for in-season management. The halibut Individual Fishing Quota program allows retention of halibut in the hook-and-line groundfish fisheries, making true halibut PSC numbers unavailable. Therefore, estimates of halibut PSC mortality are not included in this table for those fisheries. There were substantial changes to the observer program in 2013 that could affect the comparability of 2013 and later years, to previous years. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch-accounting system estimates (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 15: Prohibited species catch rates in the Bering Sea and Aleutian Islands by species, gear, and groundfish target fishery, 2013-2014, (Metric tons per metric ton or numbers per metric ton).

	Target	Halibut (t)	Herring (t)	Chinook (1,000s)	Other Salmon (1,000s)	Red King Crab (1,000s)	Other King Crab (1,000s)	Bairdi (1,000s)	Other Tanner (1,000s)
2013	Hook & Line								
	Pollock, Bottom	*	-	-	-	-	-	*	-
	Sablefish	-	-	*	0.006	-	0.359	-	-
	Pacific Cod	0.003	0	-	0.001	0.036	0.004	0.103	0.112
	Turbot	0.002	-	-	*	-	-	-	*
	Rockfish	*	-	-	-	-	*	-	-
	All Targets	0.003	0	*	0.001	0.035	0.007	0.101	0.110
	Pot								
	Sablefish	*	-	-	-	-	*	*	*
	Pacific Cod	0	-	-	-	3.254	0.001	7.301	0.441
	All Targets	0	-	-	-	3.204	0.001	7.188	0.434
	Trawl								
	Pollock, Bottom	0.002	0	0.021	0.020	0.004	*	0.121	0.055
	Pollock, Pelagic	0	0.001	0.011	0.109	-	0	0.001	0.003
	Sablefish	*	-	-	-	-	-	-	-
	Pacific Cod	0.007	0	0.016	0.006	0.008	0.001	0.233	0.228
	Arrowtooth Kamchatka	0.012	0	-	-	-	0.467	0.190	0.429
	Flounder	0.008	-	-	-	*	0.560	-	-
Flathead Sole	0.009	0	-	-	0.059	*	4.779	5.137	
Rock Sole	0.008	0	-	*	0.222	*	0.566	0.169	
Turbot	*	-	-	-	-	-	-	-	
Yellowfin	0.005	0	0.002	0.001	0.044	0.002	2.326	2.395	
Other Flatfish	0.006	-	-	-	-	*	1.160	1.531	
Rockfish	0.003	-	*	-	*	0.420	0.017	*	
Atka Mackerel	0.003	*	-	0.018	*	0.116	-	*	
All Targets	0.002	0.001	0.009	0.076	0.017	0.018	0.393	0.389	

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Table 15: Continued

	Target	Halibut (t)	Herring (t)	Chinook (1,000s)	Other Salmon (1,000s)	Red King Crab (1,000s)	Other King Crab (1,000s)	Bairdi (1,000s)	Other Tanner (1,000s)
Hook & Line	Sablefish	-	-	-	-	0.038	0.444	-	-
	Pacific Cod	0.003	-	0	0.001	0.046	0.004	0.118	0.115
	Turbot	0.002	-	-	0.062	-	*	*	*
	Rockfish	*	-	-	-	-	-	-	-
	Other Ground- fish	*	-	-	-	-	-	-	-
	All Targets	0.003	-	0	0.002	0.045	0.007	0.117	0.114
	Pot	Sablefish	*	-	-	-	-	*	-
Pacific Cod		0	-	-	-	4.177	-	16.115	2.556
All Targets		0	-	-	-	4.134	*	15.950	2.530
Trawl		Pollock, Bottom	0.001	0	0.014	0.033	0.006	*	0.204
	Pollock, Pelagic	0	0	0.013	0.184	-	-	0.001	0.002
	Sablefish	*	-	-	-	-	-	-	-
	Pacific Cod	0.006	0	0.025	*	0.011	*	0.389	0.229
	Arrowtooth	0.010	0	-	*	-	0.261	0.282	0.323
	Kamchatka Flounder	0.004	*	-	-	-	2.168	-	*
	Flathead Sole	0.006	*	-	0.031	*	-	3.933	4.630
	Rock Sole	0.009	0	0.012	0.006	0.307	0.002	1.396	0.152
	Turbot	-	-	-	-	-	*	-	-
	Yellowfin	0.006	0	*	0.006	0.027	0.002	1.646	1.407
	Other Flatfish	*	*	-	-	-	-	-	-
	Rockfish	0.002	-	0.008	0.010	*	0.218	*	-
	Atka Mackerel	0.002	-	0.007	0.012	*	0.060	-	-
	All Targets	0.002	0	0.011	0.133	0.017	0.014	0.336	0.261
	All Gear	All Targets	0.002	0	0.010	0.119	0.090	0.013	0.583

**Notes:** These estimates include only catches counted against federal TACs. Totals may include additional categories. The target, determined by AKR staff, is based on processor, trip, processing mode, NMFS area and gear. The estimates of halibut PSC mortality are based on the International Pacific Halibut Commission discard mortality rates that were used for in-season management. The halibut Individual Fishing Quota program allows retention of halibut in the hook-and-line groundfish fisheries, making true halibut PSC numbers unavailable. This is particularly a problem in the Bering Sea and Aleutian Islands sablefish hook-and-line fishery. Therefore, estimates of halibut PSC mortality are not included in this table for that fishery. There were substantial changes to the observer program in 2013 that could affect the comparability of 2013 and later years, to previous years. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch-accounting system estimates (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 16: Real ex-vessel value of the catch in the domestic commercial fisheries off Alaska by species group, 1984-2014; calculations based on COAR (\$ millions, base year = 2014).

Year	Shellfish	Salmon	Herring	Halibut	Groundfish	Total
1984	295.8	981.2	58.4	56.1	79.8	1,471.3
1985	300.7	1,096.0	103.8	105.5	122.1	1,728.2
1986	472.4	1,043.1	99.1	180.9	171.9	1,967.4
1987	495.6	1,089.3	96.0	175.7	315.7	2,172.3
1988	510.8	1,615.0	121.4	143.3	525.1	2,915.7
1989	629.9	1,143.2	42.2	190.4	763.2	2,768.9
1990	777.7	1,197.4	52.6	190.3	984.5	3,202.5
1991	649.3	647.2	61.7	197.5	1,007.1	2,562.8
1992	692.1	1,124.6	55.8	99.1	1,393.9	3,365.5
1993	676.7	805.7	29.0	110.4	909.1	2,531.0
1994	641.6	847.7	43.1	169.2	975.4	2,677.1
1995	534.0	936.1	73.8	112.3	1,131.4	2,787.6
1996	340.5	673.4	87.1	144.2	1,006.6	2,251.7
1997	311.5	448.6	28.8	192.8	944.6	1,926.3
1998	384.9	427.1	19.0	165.6	658.2	1,654.8
1999	458.0	583.8	24.0	197.4	808.8	2,072.0
2000	232.1	401.3	15.6	219.4	974.4	1,842.8
2001	208.7	318.5	17.6	201.6	968.6	1,714.9
2002	250.9	219.0	15.3	217.4	1,036.8	1,739.5
2003	289.5	277.5	14.7	273.9	1,092.8	1,948.4
2004	259.0	398.5	21.9	263.6	1,000.6	1,943.6
2005	243.9	454.5	21.3	246.4	1,097.0	2,063.0
2006	191.8	426.3	13.4	262.0	1,141.6	2,035.0
2007	250.3	513.3	20.4	288.7	1,105.7	2,178.5
2008	327.7	523.6	32.4	264.5	1,234.2	2,382.4
2009	248.4	498.7	30.7	173.0	882.9	1,833.7
2010	273.3	617.1	26.2	237.3	812.6	1,966.5
2011	333.7	685.8	12.1	230.0	1,117.4	2,379.1
2012	357.6	597.4	24.3	162.4	1,191.1	2,332.8
2013	258.5	736.9	17.7	120.9	953.3	2,087.3
2014	244.1	546.0	11.5	106.7	944.8	1,853.1

**Notes:** These estimates include the value of catch from both federal and state of Alaska fisheries. The data have been adjusted to 2014 dollars by applying the Producer Price Index for unprocessed and packaged fish (series number WPU0223) from the Bureau of Labor Statistics at: <http://data.bls.gov/cgi-bin/srgate>.

**Source:** NMFS Alaska Region Blend and Catch-Accounting System estimates, At-Sea Production Reports, Commercial Operators Annual Reports (COAR), Fisheries of the United States (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 17: Percentage distribution of ex-vessel value of the catch in the domestic commercial fisheries off Alaska by species group, 1984-2014; calculations based on COAR.

Year	Shellfish	Salmon	Herring	Halibut	Groundfish
1984	20.1 %	66.7 %	4.0 %	3.8 %	5.4 %
1985	17.4 %	63.4 %	6.0 %	6.1 %	7.1 %
1986	24.0 %	53.0 %	5.0 %	9.2 %	8.7 %
1987	22.8 %	50.1 %	4.4 %	8.1 %	14.5 %
1988	17.5 %	55.4 %	4.2 %	4.9 %	18.0 %
1989	22.7 %	41.3 %	1.5 %	6.9 %	27.6 %
1990	24.3 %	37.4 %	1.6 %	5.9 %	30.7 %
1991	25.3 %	25.3 %	2.4 %	7.7 %	39.3 %
1992	20.6 %	33.4 %	1.7 %	2.9 %	41.4 %
1993	26.7 %	31.8 %	1.1 %	4.4 %	35.9 %
1994	24.0 %	31.7 %	1.6 %	6.3 %	36.4 %
1995	19.2 %	33.6 %	2.6 %	4.0 %	40.6 %
1996	15.1 %	29.9 %	3.9 %	6.4 %	44.7 %
1997	16.2 %	23.3 %	1.5 %	10.0 %	49.0 %
1998	23.3 %	25.8 %	1.1 %	10.0 %	39.8 %
1999	22.1 %	28.2 %	1.2 %	9.5 %	39.0 %
2000	12.6 %	21.8 %	0.8 %	11.9 %	52.9 %
2001	12.2 %	18.6 %	1.0 %	11.8 %	56.5 %
2002	14.4 %	12.6 %	0.9 %	12.5 %	59.6 %
2003	14.9 %	14.2 %	0.8 %	14.1 %	56.1 %
2004	13.3 %	20.5 %	1.1 %	13.6 %	51.5 %
2005	11.8 %	22.0 %	1.0 %	11.9 %	53.2 %
2006	9.4 %	20.9 %	0.7 %	12.9 %	56.1 %
2007	11.5 %	23.6 %	0.9 %	13.3 %	50.8 %
2008	13.8 %	22.0 %	1.4 %	11.1 %	51.8 %
2009	13.5 %	27.2 %	1.7 %	9.4 %	48.1 %
2010	13.9 %	31.4 %	1.3 %	12.1 %	41.3 %
2011	14.0 %	28.8 %	0.5 %	9.7 %	47.0 %
2012	15.3 %	25.6 %	1.0 %	7.0 %	51.1 %
2013	12.4 %	35.3 %	0.8 %	5.8 %	45.7 %
2014	13.2 %	29.5 %	0.6 %	5.8 %	51.0 %

**Notes:** These estimates report the distribution of the value of catch from both federal and state of Alaska fisheries.

**Source:** NMFS Alaska Region Blend and Catch-Accounting System estimates, At-Sea Production Reports, Commercial Operators Annual Reports (COAR), Fisheries of the United States. (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 18: Ex-vessel prices in the groundfish fisheries off Alaska by area, gear, and species, 2010-2014; calculations based on COAR (\$/lb, round weight).

	Year	Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska
		Fixed	Trawl	Fixed	Trawl	All Gear
Pollock	2010	0.133	0.173	0.145	0.153	0.154
	2011	0.128	0.161	0.178	0.165	0.165
	2012	0.144	0.171	0.108	0.173	0.173
	2013	0.156	0.176	0.092	0.150	0.152
	2014	0.114	0.123	0.111	0.154	0.151
Sablefish	2010	4.077	3.267	4.257	1.604	4.025
	2011	5.463	3.986	5.105	1.790	5.290
	2012	4.421	3.231	3.522	1.014	4.192
	2013	3.215	2.434	2.838	1.173	3.100
	2014	3.900	2.972	3.995	1.324	3.825
Pacific Cod	2010	0.269	0.231	0.299	0.209	0.265
	2011	0.339	0.309	0.306	0.249	0.300
	2012	0.361	0.326	0.327	0.313	0.329
	2013	0.273	0.244	0.252	0.240	0.251
	2014	0.307	0.271	0.289	0.262	0.284
Flatfish	2010	0.793	0.107	0.015	0.149	0.143
	2011	0.512	0.110	0.174	0.182	0.174
	2012	0.223	0.137	0.017	0.204	0.197
	2013	0.019	0.141	0.052	0.161	0.159
	2014	0.241	0.145	0.407	0.144	0.145
Rockfish	2010	0.670	0.124	0.903	0.228	0.192
	2011	0.668	0.157	0.742	0.348	0.276
	2012	0.848	0.266	0.687	0.289	0.292
	2013	0.826	0.207	0.975	0.211	0.225
	2014	0.770	0.185	0.623	0.250	0.233
Atka Mackerel	2010	*	0.277	0.015	0.207	0.208
	2011	0.016	0.365	0.124	0.268	0.270
	2012	0.131	0.388	0.180	0.293	0.294
	2013	*	0.367	0.024	0.327	0.328
	2014	*	0.382	0.340	0.422	0.421

**Notes:** 1) Prices are for catch from both federal and state of Alaska fisheries.

2) Prices do not include the value added by at-sea processing except for the value added by dressing fish at sea where the fish have not been frozen. The unfrozen landings price is calculated as landed value divided by estimated or actual round weight.

3) Trawl-caught sablefish, rockfish and flatfish in the BSAI and trawl-caught Atka mackerel in both the BSAI and the GOA are not well represented by on-shore landings. A price was calculated for these categories from product-report prices; the price in this case is the value of the product divided by the calculated round weight and multiplied by a constant 0.4 to correct for value added by processing.

4) The “All Alaska/All gear” column is the weighted average of the other columns.

“\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch Accounting System, Commercial Operators Annual Report (COAR), At-Sea Production Reports, (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 19: Ex-vessel value of the groundfish catch off Alaska by area ,vessel category, gear, and species,2010-2014; calculations based on COAR (\$ millions).

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
		Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	
Hook & Line	Sablefish	2010	80.6	5.9	86.4	6.0	5.3	11.3	86.5	11.2	97.7
		2011	116.4	9.0	125.4	7.4	4.7	12.1	123.8	13.7	137.5
		2012	105.2	6.8	112.0	5.5	3.7	9.2	110.7	10.5	121.2
		2013	74.6	4.7	79.3	3.6	2.9	6.5	78.1	7.6	85.8
		2014	78.0	4.8	82.8	4.5	1.7	6.3	82.6	6.5	89.1
	Pacific Cod	2010	7.8	4.9	12.7	0.5	57.7	58.2	8.3	62.6	70.9
		2011	10.1	6.1	16.2	0.7	78.0	78.7	10.8	84.1	94.9
		2012	12.6	3.7	16.3	0.6	93.1	93.7	13.2	96.8	110.0
		2013	6.3	1.9	8.1	0.6	67.7	68.2	6.8	69.5	76.4
		2014	8.3	4.0	12.3	1.4	78.0	79.4	9.7	82.0	91.7
	Flatfish	2010	0	0	0	*	0.1	0.1	0	0.1	0.1
		2011	0	0	0	*	0.9	0.9	0	0.9	0.9
		2012	0	0	0	*	0.1	0.1	0	0.1	0.1
		2013	0	*	0	*	0.1	0.1	0	0.1	0.1
		2014	0	*	0	*	0.7	0.7	0	0.7	0.7
	Rockfish	2010	1.4	0.1	1.6	0.1	0.6	0.7	1.5	0.8	2.3
		2011	1.2	0.1	1.4	0.1	0.2	0.3	1.3	0.4	1.7
		2012	1.9	0.2	2.1	0.1	0.3	0.4	2.0	0.5	2.5
		2013	2.0	0.1	2.2	0.1	0.3	0.3	2.1	0.4	2.5
		2014	1.6	0.1	1.7	0.1	0.1	0.2	1.7	0.3	1.9
All Species	2010	90.3	11.2	101.5	6.5	65.5	72.0	96.9	76.6	173.5	
	2011	128.4	15.6	144.0	8.2	89.7	98.0	136.6	105.4	242.0	
	2012	120.6	10.9	131.4	6.2	100.4	106.7	126.8	111.3	238.1	
	2013	83.5	6.8	90.3	4.2	78.2	82.4	87.7	85.0	172.7	
	2014	88.6	9.0	97.6	6.0	90.1	96.1	94.6	99.1	193.7	

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Table 19: Continued

		Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
	Year	Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	
Pot	Pacific Cod	2010	20.6	-	20.6	11.2	3.4	14.6	31.8	3.4	35.1
		2011	34.1	*	34.1	16.8	2.2	19.0	50.8	2.2	53.1
		2012	29.5	*	29.5	18.7	3.9	22.6	48.2	3.9	52.0
		2013	18.7	-	18.7	15.0	*	15.0	33.7	*	33.7
		2014	25.8	-	25.8	22.2	4.9	27.0	48.0	4.9	52.9
	Pollock	2010	28.4	0.4	28.8	142.4	128.6	271.0	170.8	129.0	299.7
		2011	27.7	0.4	28.1	229.7	204.6	434.3	257.5	205.0	462.4
		2012	38.0	0.4	38.4	241.3	216.1	457.4	279.3	216.5	495.9
		2013	35.9	0.4	36.4	218.6	199.8	418.5	254.6	200.3	454.8
		2014	37.8	0.5	38.2	226.9	208.0	434.9	264.6	208.5	473.1
Trawl	Sablefish	2010	3.3	2.9	6.2	0	0.4	0.4	3.3	3.2	6.5
		2011	4.6	3.5	8.1	0	0.3	0.3	4.6	3.8	8.4
		2012	2.9	2.7	5.7	*	0.5	0.5	2.9	3.3	6.2
		2013	2.2	2.1	4.3	*	0.5	0.5	2.2	2.6	4.8
		2014	3.0	2.8	5.8	*	0.2	0.2	3.0	3.0	6.0
	Pacific Cod	2010	9.3	0.6	9.9	11.1	15.9	27.0	20.4	16.5	36.9
		2011	9.9	0.8	10.7	16.9	23.0	40.0	26.8	23.9	50.7
		2012	13.1	0.9	14.0	28.9	30.8	59.7	42.0	31.7	73.7
		2013	9.8	0.6	10.4	21.5	25.1	46.6	31.3	25.7	57.0
		2014	13.2	0.7	13.9	21.4	24.0	45.4	34.5	24.7	59.2
	Flatfish	2010	4.7	1.7	6.4	1.0	73.1	74.1	5.8	74.7	80.5
		2011	5.0	3.1	8.1	1.6	102.5	104.1	6.6	105.6	112.1
		2012	4.2	2.9	7.1	1.7	118.3	119.9	5.9	121.2	127.1
		2013	5.5	3.1	8.6	0.6	95.4	96.0	6.1	98.5	104.6
		2014	5.8	8.0	13.8	0.7	81.0	81.7	6.5	89.0	95.5

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Table 19: Continued

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
		Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	
Trawl	Rockfish	2010	2.5	3.6	6.2	0.1	10.6	10.7	2.6	14.3	16.9
		2011	3.0	4.0	7.0	0.1	20.5	20.6	3.1	24.5	27.6
		2012	6.3	7.9	14.2	0.2	16.6	16.8	6.5	24.6	31.0
		2013	4.4	5.2	9.5	0.1	15.5	15.6	4.5	20.7	25.2
		2014	4.4	5.7	10.2	0.2	18.8	19.0	4.7	24.5	29.1
	Atka Mackerel	2010	0	0.7	0.7	0	29.4	29.5	0	30.2	30.2
		2011	0	0.8	0.8	0.6	29.0	29.5	0.6	29.8	30.4
		2012	0	0.6	0.6	0.1	29.8	30.0	0.2	30.4	30.6
		2013	0	0.7	0.7	0	16.1	16.2	0	16.8	16.9
		2014	0	0.8	0.8	0.1	28.4	28.5	0.1	29.2	29.3
	All Species	2010	49.3	10.1	59.4	154.7	258.2	412.9	204.1	268.2	472.3
		2011	51.8	12.9	64.7	249.0	380.2	629.2	300.8	393.1	694.0
		2012	66.0	15.8	81.8	272.4	412.5	684.9	338.4	428.3	766.7
		2013	59.5	12.1	71.6	240.9	352.6	593.5	300.4	364.7	665.1
		2014	65.0	18.7	83.7	249.5	360.9	610.4	314.5	379.6	694.1
All Gear	Pollock	2010	28.4	0.4	28.8	142.4	129.7	272.1	170.8	130.1	300.9
		2011	27.8	0.4	28.1	229.7	206.4	436.1	257.5	206.8	464.3
		2012	38.0	0.4	38.5	241.3	217.2	458.5	279.4	217.6	497.0
		2013	36.0	0.4	36.4	218.6	200.7	419.4	254.6	201.2	455.8
		2014	37.8	0.5	38.3	226.9	209.4	436.2	264.7	209.8	474.5
Sablefish	2010	83.9	8.7	92.6	6.0	5.7	11.6	89.8	14.4	104.2	
	2011	121.5	12.5	134.0	13.3	5.0	18.3	134.9	17.5	152.4	
	2012	108.1	9.5	117.7	5.5	4.2	9.7	113.7	13.7	127.4	
	2013	77.0	6.8	83.8	3.6	3.4	7.0	80.6	10.2	90.8	
	2014	81.0	7.6	88.7	4.5	1.9	6.4	85.6	9.5	95.1	

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Table 19: Continued

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
		Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	
All Gear	Pacific Cod	2010	37.6	5.5	43.1	22.8	76.9	99.8	60.5	82.4	142.9
		2011	54.1	7.0	61.0	34.4	103.3	137.7	88.5	110.2	198.7
		2012	55.2	4.6	59.7	48.2	127.8	176.0	103.4	132.3	235.7
		2013	34.8	2.5	37.2	37.0	92.8	129.8	71.8	95.2	167.0
		2014	47.3	4.7	52.0	45.0	106.8	151.8	92.3	111.5	203.8
		2010	4.7	1.7	6.5	1.0	73.2	74.2	5.8	74.9	80.7
		2011	5.0	3.1	8.1	1.6	103.4	105.0	6.6	106.5	113.1
		2012	4.2	2.9	7.1	1.7	118.4	120.0	5.9	121.3	127.2
		2013	5.5	3.1	8.6	0.6	95.5	96.1	6.1	98.6	104.7
		2014	5.8	8.0	13.8	0.7	81.7	82.4	6.5	89.7	96.2
		2010	4.0	3.8	7.7	0.2	11.3	11.4	4.1	15.1	19.2
		2011	4.2	4.2	8.4	0.2	20.7	20.9	4.4	24.8	29.3
		2012	8.1	8.2	16.3	0.3	16.9	17.2	8.4	25.0	33.5
		2013	6.4	5.3	11.7	0.2	15.8	16.0	6.6	21.1	27.7
		2014	6.0	5.9	11.9	0.3	18.9	19.2	6.3	24.7	31.1
		2010	0	0.7	0.7	0	29.4	29.5	0	30.2	30.2
		2011	0	0.8	0.8	0.6	29.0	29.5	0.6	29.8	30.4
		2012	0	0.6	0.6	0.1	29.8	30.0	0.2	30.4	30.6
		2013	0	0.7	0.7	0	16.1	16.2	0	16.8	16.9
		2014	0	0.8	0.8	0.1	28.4	28.5	0.1	29.2	29.3
	All Species	2010	160.4	21.2	181.7	172.5	327.0	499.5	332.9	348.2	681.2
		2011	215.1	28.6	243.7	280.0	472.1	752.1	495.1	500.7	995.8
		2012	216.3	26.7	243.0	297.3	516.8	814.1	513.7	543.5	1,057.1
		2013	162.2	18.9	181.0	260.2	430.8	691.0	422.3	449.6	872.0
		2014	179.9	27.7	207.6	277.8	455.8	733.7	457.7	483.6	941.3

**Notes:** Ex-vessel value is calculated using prices on Table 18. Please refer to Table 18 for a description of the price derivation. All groundfish includes additional species categories. The value added by at-sea processing is not included in these estimates of ex-vessel value. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch Accounting System, Commercial Operators Annual Report (COAR), At-Sea Production Reports (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 20: Ex-vessel value of Alaska groundfish delivered to shoreside processors by area, gear and catcher-vessel length, 2005-2014; calculations based on COAR (\$ millions).

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska		
		<60	60-125	>=125	<60	60-125	>=125	<60	60-125	>=125
Fixed	2005	55.3	25.3	0.3	3.9	11.5	1.9	59.2	36.8	2.2
	2006	65.6	32.8	0.2	6.4	14.2	3.8	72.0	47.0	4.1
	2007	75.0	33.5	0	5.5	16.0	2.5	80.5	49.4	2.5
	2008	86.0	35.4	0.3	9.1	16.7	3.6	95.1	52.1	3.9
	2009	68.5	26.8	*	5.1	7.3	1.6	73.6	34.1	1.6
	2010	80.1	31.2	*	7.7	11.6	3.2	87.8	42.8	3.2
	2011	117.5	45.8	*	11.9	15.2	3.9	129.4	60.9	3.9
	2012	108.9	41.8	*	14.4	10.8	3.6	123.4	52.6	3.6
	2013	75.8	26.8	*	11.0	7.8	3.2	86.9	34.6	3.2
	2014	85.4	29.8	-	19.4	8.9	2.8	104.9	38.7	2.8
Trawl	2005	8.1	28.9	-	*	89.6	106.8	8.1	118.4	106.8
	2006	7.7	33.4	-	*	94.0	112.1	7.7	127.4	112.1
	2007	8.7	34.2	-	*	92.7	100.1	8.7	126.9	100.1
	2008	10.8	38.2	*	*	106.9	119.2	10.8	145.1	119.2
	2009	6.5	27.1	-	*	72.4	84.2	6.5	99.5	84.2
	2010	10.3	39.0	-	*	60.8	69.3	10.3	99.8	69.3
	2011	8.2	43.6	-	*	100.5	107.8	8.2	144.1	107.8
	2012	15.4	50.6	-	*	111.2	119.7	15.4	161.8	119.7
	2013	8.9	50.6	-	*	95.2	108.4	8.9	145.9	108.4
	2014	12.8	52.2	-	*	98.9	112.2	12.8	151.1	112.2
All Gear	2005	63.4	54.2	0.3	3.9	101.1	108.7	67.3	155.2	109.0
	2006	73.2	66.2	0.2	6.4	108.3	116.0	79.6	174.5	116.2
	2007	83.7	67.7	0	5.5	108.7	102.6	89.2	176.3	102.6
	2008	96.8	73.6	0.3	9.1	123.7	122.8	105.9	197.3	123.1
	2009	75.0	53.9	*	5.1	79.7	85.8	80.1	133.6	85.8
	2010	90.4	70.2	*	7.7	72.4	72.6	98.1	142.6	72.6
	2011	125.7	89.4	*	11.9	115.6	111.7	137.6	205.0	111.7
	2012	124.3	92.4	*	14.4	121.9	123.4	138.8	214.4	123.4
	2013	84.7	77.5	*	11.0	103.0	111.6	95.7	180.5	111.6
	2014	98.3	81.9	-	19.4	107.9	115.0	117.7	189.8	115.0

**Notes:** These estimates include only catch counted against federal TACs. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch-Accounting System and At-Sea Production Reports; ADF&G COAR buying data (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 21: Ex-vessel value per catcher vessel for Alaska groundfish delivered to shoreside processors by area, gear and catcher-vessel length, 2005-2014; calculations based on COAR (\$ thousands).

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska		
		<60	60-125	>=125	<60	60-125	>=125	<60	60-125	>=125
Fixed	2005	61	213	60	60	180	128	64	244	148
	2006	65	263	57	98	226	321	70	316	340
	2007	72	301	9	76	275	209	76	351	211
	2008	79	337	74	117	275	359	86	395	353
	2009	67	276	*	74	155	200	71	286	178
	2010	77	328	*	113	242	358	83	372	323
	2011	106	498	*	165	271	490	116	521	436
	2012	98	510	*	225	234	404	110	496	363
	2013	82	362	*	140	165	354	91	353	354
	2014	91	425	-	381	212	312	110	416	312
Trawl	2005	299	566	-	*	1,262	4,106	299	1,287	4,106
	2006	295	682	-	*	1,306	4,313	295	1,341	4,313
	2007	324	744	-	*	1,288	3,848	324	1,426	3,848
	2008	384	867	*	*	1,528	4,256	384	1,630	4,256
	2009	231	616	-	*	1,081	3,119	231	1,171	3,119
	2010	412	908	-	*	980	2,568	396	1,248	2,568
	2011	340	969	-	*	1,456	3,993	340	1,757	3,993
	2012	642	1,077	-	*	1,710	4,276	642	1,973	4,276
	2013	341	1,151	-	*	1,465	4,016	341	1,779	4,016
	2014	474	1,213	-	*	1,622	4,154	474	1,865	4,154
All Gear	2005	70	336	60	56	754	2,651	73	666	2,658
	2006	72	406	57	94	808	3,053	77	752	3,059
	2007	80	445	9	70	842	2,699	83	787	2,700
	2008	88	511	59	110	951	3,231	95	917	3,155
	2009	73	396	*	67	705	2,452	77	675	2,384
	2010	87	528	*	107	658	2,016	92	750	1,961
	2011	113	672	*	162	925	3,192	122	1,051	3,104
	2012	112	734	*	209	1,098	3,334	123	1,159	3,246
	2013	91	674	*	136	920	3,101	99	1,020	3,101
	2014	104	745	-	366	1,047	3,194	122	1,110	3,194

**Notes:** These estimates include only catch counted against federal TACs. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch-Accounting System and At-Sea Production Reports; ADF&G COAR buying data (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 22: Ex-vessel value of the groundfish catch off Alaska by area, residency, and species, 2010-2014; calculations based on COAR (\$ millions).

	Year	Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska	
		Alaska	Other	Alaska	Other	Alaska	Other
Pollock	2010	13.9	14.9	45.5	226.6	59.4	241.5
	2011	12.0	16.2	66.0	370.1	78.0	386.3
	2012	15.8	22.6	65.4	393.1	81.2	415.7
	2013	13.4	23.0	62.3	357.1	75.7	380.1
	2014	14.9	23.3	62.3	373.9	77.2	397.3
Sablefish	2010	51.0	41.8	2.7	8.9	53.7	50.8
	2011	74.1	59.9	7.8	10.6	81.8	70.5
	2012	64.9	53.2	2.7	7.0	67.7	60.2
	2013	46.7	37.1	4.4	5.3	51.1	42.4
	2014	50.5	38.5	2.2	4.2	52.6	42.7
Pacific Cod	2010	29.1	14.0	26.7	73.1	55.8	87.1
	2011	43.9	17.1	34.7	102.9	78.7	120.0
	2012	44.5	15.2	42.2	133.8	86.8	149.0
	2013	25.4	11.8	31.2	98.6	56.6	110.4
	2014	37.6	14.4	38.7	113.1	76.3	127.5
Flatfish	2010	2.6	3.9	20.4	53.8	23.0	57.7
	2011	2.0	6.0	8.0	97.0	10.1	103.0
	2012	1.6	5.5	1.4	118.6	3.0	124.2
	2013	2.0	6.6	5.0	91.1	7.0	97.7
	2014	2.1	11.7	4.5	77.9	6.6	89.6
Rockfish	2010	2.7	5.0	0.3	11.1	3.0	16.2
	2011	2.1	6.2	0.5	20.4	2.7	26.6
	2012	4.1	12.2	0.1	17.1	4.2	29.2
	2013	3.5	8.2	0.2	15.8	3.7	24.0
	2014	3.2	8.7	0.1	19.0	3.4	27.7
Atka Mackerel	2010	0.1	0.6	0	29.5	0.1	30.1
	2011	0	0.8	0	29.5	0	30.4
	2012	0	0.6	0	30.0	0	30.6
	2013	0	0.7	0	16.2	0	16.9
	2014	0	0.8	0	28.5	0	29.3
All Groundfish	2010	100.7	81.2	95.8	403.7	196.5	484.9
	2011	135.9	107.8	118.3	633.9	254.2	741.6
	2012	132.7	110.7	112.7	701.4	245.5	812.1
	2013	92.3	88.9	104.9	588.8	197.2	677.7
	2014	109.7	98.2	110.0	623.6	219.7	721.8

**Notes:** These estimates include only catches counted against federal TACs. Ex-vessel value is calculated using prices on Table 18a. Please refer to Table 18a for a description of the price derivation. Catch delivered to motherships is classified by the residence of the owner of the mothership. All other catch is classified by the residence of the owner of the fishing vessel. All groundfish include additional species categories. For catch for which the residence is unknown, there are either no data or the data have been suppressed to preserve confidentiality.

**Source:** NMFS Alaska Region Catch Accounting System, Commercial Operators Annual Report (COAR), ADFG fish tickets, At-Sea Production Reports (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 23: Ex-vessel value of groundfish delivered to shoreside processors by processor group, 2009-2014; calculations based on COAR (\$ millions).

Region	2009	2010	2011	2012	2013	2014
Bering Sea Pollock	172.5	168.1	254.4	270.3	231.3	250.8
AK Peninsula/Aleutians	11.3	5.5	12.0	19.6	14.9	13.9
Kodiak	41.7	59.9	77.4	87.7	68.3	76.4
South Central	25.5	27.0	44.8	37.0	26.4	29.4
Southeastern	30.8	33.6	44.8	43.3	28.4	31.3
All Regions	281.8	294.2	433.5	457.8	369.2	401.8

**Notes:** Refer to the notes for Table 24.

**Source:** Refer to the source information for Table 24.

Table 24: Ex-vessel value of groundfish as a percentage of the ex-vessel value of all species delivered to shoreside processors by processor group, 2009-2014; calculations based on COAR (percent).

Region	2009	2010	2011	2012	2013	2014
Bering Sea Pollock	58.9	57.5	58.7	64.4	62.9	66.9
AK Peninsula/Aleutians	6.1	2.4	4.6	7.0	5.4	4.5
Kodiak	35.1	42.9	41.9	47.9	40.4	50.6
South Central	15.8	9.3	17.7	15.6	9.7	14.1
Southeastern	15.9	13.4	13.9	15.7	8.8	12.2
All Regions	29.5	24.5	29.8	32.8	26.3	31.0

**Notes:** These tables include the value of groundfish purchases reported by processing plants, as well as by other entities, such as markets and restaurants, that normally would not report sales of groundfish products. Keep this in mind when comparing ex-vessel values in this table to gross processed-product values in Table 34. The data are for catch from both federal and state of Alaska fisheries. The processor groups are defined as follows: "Bering Sea Pollock" are the AFA inshore pollock processors including the two AFA floating processors. "AK Peninsula/Aleutian" are other processors on the Alaska Peninsula or in the Aleutian Islands. "Kodiak" are processors on Kodiak Island. "South Central" are processors west of Yakutat and on the Kenai Peninsula. "Southeastern" are processors located from Yakutat south.

**Source:** ADFG Commercial Operators Annual Report, ADFG intent to process (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 25: Production and gross value of groundfish products in the fisheries off Alaska by species, 2010-2014, (1,000 metric tons product weight and million dollars).

	Product	2010		2011		2012		2013		2014	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Pollock	Whole Fish	1.24	\$ 1.6	2.01	\$ 3.2	2.19	\$ 2.2	2.48	\$ 2.8	1.67	\$ 1.4
	Head And Gut	60.81	\$ 97.0	59.60	\$ 109.1	48.15	\$ 71.2	62.26	\$ 100.0	67.17	\$ 94.1
	Roe	16.45	\$ 98.0	19.29	\$ 152.9	18.16	\$ 169.2	16.12	\$ 115.6	24.12	\$ 150.5
	Deep-Skin Fillets	40.28	\$ 158.5	46.19	\$ 171.0	55.49	\$ 206.5	51.59	\$ 184.5	43.69	\$ 152.2
	Other Fillets	71.17	\$ 263.8	120.72	\$ 399.1	96.96	\$ 314.0	125.07	\$ 379.5	140.27	\$ 398.9
	Surimi	103.59	\$ 357.2	148.07	\$ 418.0	167.04	\$ 523.6	170.26	\$ 377.5	183.64	\$ 420.6
	Minced Fish	21.59	\$ 41.6	30.99	\$ 50.8	31.59	\$ 54.3	30.94	\$ 46.0	26.25	\$ 32.5
	Fishmeal	38.32	\$ 60.3	52.92	\$ 82.5	52.52	\$ 78.8	53.87	\$ 92.9	56.85	\$ 97.2
	Other Products	26.25	\$ 26.3	33.97	\$ 37.3	38.79	\$ 48.6	33.81	\$ 36.2	36.46	\$ 35.7
	All Products	379.72	\$ 1,104.3	513.75	\$ 1,424.0	510.89	\$ 1,468.4	546.41	\$ 1,335.1	580.12	\$ 1,383.2
Sablefish	Head And Gut	6.70	\$ 104.3	6.86	\$ 138.3	7.52	\$ 113.4	7.35	\$ 93.6	6.29	\$ 94.6
	Other Products	0.49	\$ 5.2	0.81	\$ 9.1	0.63	\$ 3.4	0.49	\$ 2.6	0.41	\$ 2.9
	All Products	7.18	\$ 109.5	7.67	\$ 147.4	8.16	\$ 116.8	7.84	\$ 96.2	6.69	\$ 97.6

Continued on next page.



Table 25: Continued

Product	2010		2011		2012		2013		2014		
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
Pacific Cod	Whole Fish	3.01	\$ 2.9	2.47	\$ 3.7	3.27	\$ 4.8	3.64	\$ 3.9	1.43	\$ 2.5
	Head And Gut	80.32	\$ 232.4	106.07	\$ 348.6	119.61	\$ 354.1	104.39	\$ 240.8	114.51	\$ 314.1
	Salted/Split	*	\$ *	*	\$ *	*	\$ *	*	\$ *	-	\$ -
	Roe	5.05	\$ 6.6	3.17	\$ 4.9	3.86	\$ 7.1	4.38	\$ 9.1	5.25	\$ 11.7
	Fillets	14.80	\$ 86.8	15.79	\$ 106.2	15.84	\$ 103.1	18.50	\$ 122.2	18.27	\$ 117.5
	Other Products	12.29	\$ 22.6	15.06	\$ 33.3	14.17	\$ 25.3	14.59	\$ 21.9	15.13	\$ 23.1
All Products	115.47	\$ 351.3	142.56	\$ 496.7	156.75	\$ 494.4	145.50	\$ 397.9	154.58	\$ 468.8	
Flatfish	Whole Fish	19.53	\$ 21.7	21.54	\$ 30.2	26.03	\$ 39.1	15.71	\$ 41.3	27.07	\$ 32.1
	Head And Gut	120.16	\$ 153.3	142.08	\$ 222.5	142.22	\$ 241.6	151.20	\$ 186.4	146.10	\$ 177.7
	Kirimi	*	\$ *	*	\$ *	*	\$ *	*	\$ *	0.13	\$ 0.4
	Fillets	0.25	\$ 0.9	0.19	\$ 0.8	0.19	\$ 0.9	0.21	\$ 0.8	0.14	\$ 0.4
	Fishmeal	-	\$ -	0	\$ 0	0	\$ 0	0.01	\$ 0.0	0.01	\$ 0.0
	Other Products	4.31	\$ 9.2	3.47	\$ 8.1	3.12	\$ 6.4	2.02	\$ 5.9	1.59	\$ 3.4
All Products	144.24	\$ 185.1	167.27	\$ 261.7	171.57	\$ 288.0	169.15	\$ 234.4	175.04	\$ 213.9	
Rockfish	Whole Fish	3.44	\$ 6.8	3.61	\$ 8.5	3.24	\$ 7.0	3.79	\$ 7.5	4.28	\$ 8.5
	Head And Gut	20.15	\$ 50.4	22.32	\$ 84.0	22.66	\$ 72.6	24.98	\$ 58.0	27.57	\$ 74.7
	Other Products	0.54	\$ 2.2	0.43	\$ 2.4	0.69	\$ 5.2	0.40	\$ 2.4	0.44	\$ 1.9
	All Products	24.14	\$ 59.3	26.35	\$ 94.9	26.59	\$ 84.7	29.17	\$ 67.8	32.28	\$ 85.1
Atka Mackerel	Whole Fish	2.15	\$ 1.7	5.33	\$ 5.3	5.63	\$ 7.9	2.91	\$ 5.3	3.25	\$ 5.5
	Head And Gut	37.84	\$ 72.7	27.41	\$ 69.6	24.51	\$ 67.0	11.67	\$ 34.1	17.63	\$ 68.9
	Other Products	0	\$ 0	0	\$ 0	0.03	\$ 0.0	0	\$ 0	0	\$ 0
	All Products	39.99	\$ 74.4	32.74	\$ 74.9	30.17	\$ 74.8	14.57	\$ 39.4	20.88	\$ 74.4
All Species Total	713.69	\$ 1,890.4	893.19	\$ 2,507.6	907.81	\$ 2,538.7	916.02	\$ 2,180.8	973.53	\$ 2,331.6	

**Notes:** Total includes additional species not listed in the production details as well as confidential data from Tables 28 and 29. These estimates are for catch from both federal and state of Alaska fisheries. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** At-sea and shoreside production reports and commercial operators annual report. National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 26: Price per pound of groundfish products in the fisheries off Alaska by species and processing mode, 2010-2014, (dollars).

	Product	2010		2011		2012		2013		2014	
		At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside
Pollock	Whole Fish	\$ 0.44	\$ 0.58	\$ 0.66	\$ 0.73	\$ 0.53	\$ 0.45	\$ 0.40	\$ 0.52	\$ 0.39	\$ 0.39
	Head And Gut	\$ 0.74	\$ 0.72	\$ 0.92	\$ 0.65	\$ 0.73	\$ 0.60	\$ 0.71	\$ 0.76	\$ 0.65	\$ 0.62
	Roe	\$ 3.51	\$ 2.00	\$ 3.94	\$ 3.07	\$ 5.03	\$ 3.38	\$ 3.73	\$ 2.74	\$ 3.40	\$ 2.29
	Deep-Skin Fillets	\$ 1.89	\$ 1.57	\$ 1.75	\$ 1.52	\$ 1.70	\$ 1.67	\$ 1.71	\$ 1.41	\$ 1.61	\$ 1.50
	Other Fillets	\$ 1.64	\$ 1.72	\$ 1.46	\$ 1.53	\$ 1.42	\$ 1.52	\$ 1.29	\$ 1.46	\$ 1.28	\$ 1.30
	Surimi	\$ 1.75	\$ 1.37	\$ 1.41	\$ 1.16	\$ 1.61	\$ 1.26	\$ 1.08	\$ 0.94	\$ 1.09	\$ 1.00
	Minced Fish	\$ 0.87	\$ 0.89	\$ 0.76	\$ 0.70	\$ 0.79	\$ 0.74	\$ 0.68	\$ 0.65	\$ 0.55	\$ 0.59
	Fishmeal	\$ 0.86	\$ 0.63	\$ 0.79	\$ 0.65	\$ 0.86	\$ 0.56	\$ 0.88	\$ 0.72	\$ 0.98	\$ 0.63
	Other Products	\$ 0.58	\$ 0.37	\$ 0.60	\$ 0.44	\$ 0.67	\$ 0.53	\$ 0.59	\$ 0.43	\$ 0.50	\$ 0.41
	All Products	\$ 1.49	\$ 1.16	\$ 1.36	\$ 1.15	\$ 1.44	\$ 1.17	\$ 1.17	\$ 1.05	\$ 1.15	\$ 1.01
Pacific Cod	Whole Fish	\$ 0.41	\$ 0.45	\$ 0.49	\$ 0.73	\$ 0.57	\$ 0.73	\$ 0.50	\$ 0.46	\$ 0.29	\$ 0.86
	Head And Gut	\$ 1.40	\$ 1.01	\$ 1.56	\$ 1.31	\$ 1.41	\$ 1.18	\$ 1.10	\$ 0.82	\$ 1.31	\$ 1.07
	Salted/Split	\$ -	\$ *	\$ -	\$ *	\$ -	\$ *	\$ -	\$ *	\$ -	\$ -
	Roe	\$ 0.58	\$ 0.60	\$ 0.76	\$ 0.70	\$ 0.81	\$ 0.84	\$ 0.77	\$ 0.95	\$ 0.89	\$ 1.03
	Fillets	\$ 2.41	\$ 2.67	\$ 2.43	\$ 3.08	\$ 1.51	\$ 2.98	\$ 1.07	\$ 3.03	\$ 1.87	\$ 2.93
	Other Products	\$ 1.03	\$ 0.77	\$ 1.26	\$ 0.89	\$ 0.91	\$ 0.78	\$ 0.53	\$ 0.75	\$ 0.71	\$ 0.69
	All Products	\$ 1.38	\$ 1.38	\$ 1.53	\$ 1.65	\$ 1.37	\$ 1.51	\$ 1.06	\$ 1.55	\$ 1.28	\$ 1.50
Sablefish	Head And Gut	\$ 6.40	\$ 7.19	\$ 7.83	\$ 9.38	\$ 5.31	\$ 7.09	\$ 5.19	\$ 5.87	\$ 5.34	\$ 7.04
	Other Products	\$ 1.94	\$ 5.51	\$ 1.20	\$ 6.06	\$ 1.29	\$ 2.58	\$ 0.82	\$ 3.22	\$ 1.34	\$ 3.83
	All Products	\$ 6.04	\$ 7.08	\$ 6.94	\$ 9.04	\$ 5.03	\$ 6.74	\$ 4.62	\$ 5.74	\$ 4.92	\$ 6.86

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Table 26: Continued

		2010		2011		2012		2013		2014	
Product		At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside
Deep-Water Flatfish (GOA)	Whole Fish	\$ -	\$ 0.40	\$ -	\$ 0.42	\$ *	\$ *	\$ -	\$ 0.45	\$ -	\$ 0.36
	Head And Gut	\$ -	\$ 0.53	\$ -	\$ 0.62	\$ 0.90	\$ 0.64	\$ 0.52	\$ 0.78	\$ 0.58	\$ 0.63
	Kirimi	\$ -	\$ -	\$ -	\$ *	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Fillets	\$ -	\$ 1.51	\$ -	\$ 2.01	\$ -	\$ *	\$ -	\$ 1.66	\$ -	\$ 1.57
	Other Products	\$ -	\$ -	\$ *	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	All Products	\$ -	\$ 0.63	\$ *	\$ 0.58	\$ 0.90	\$ 0.64	\$ 0.52	\$ 0.61	\$ 0.58	\$ 0.73
Shallow- Water Flatfish (GOA)	Whole Fish	\$ *	\$ 0.51	\$ *	\$ 0.63	\$ *	\$ 0.63	\$ -	\$ 1.08	\$ *	\$ 0.58
	Head And Gut	\$ 0.63	\$ 0.56	\$ 0.64	\$ 0.68	\$ 0.77	\$ 0.70	\$ 0.46	\$ 0.72	\$ 0.45	\$ 0.69
	Kirimi	\$ -	\$ *	\$ -	\$ *	\$ -	\$ *	\$ -	\$ *	\$ -	\$ *
	Fillets	\$ -	\$ 1.58	\$ -	\$ 2.06	\$ -	\$ 2.15	\$ -	\$ 1.62	\$ -	\$ 1.39
	Other Products	\$ -	\$ 0.81	\$ -	\$ 0.14	\$ -	\$ *	\$ -	\$ *	\$ -	\$ *
	All Products	\$ 0.63	\$ 0.66	\$ 0.64	\$ 0.78	\$ 0.77	\$ 0.82	\$ 0.46	\$ 0.98	\$ 0.45	\$ 0.65
Arrowtooth	Whole Fish	\$ *	\$ 0.41	\$ -	\$ 0.65	\$ *	\$ 0.47	\$ *	\$ 0.64	\$ 0.50	\$ 0.67
	Head And Gut	\$ 0.47	\$ 0.37	\$ 0.69	\$ 0.54	\$ 0.81	\$ 0.57	\$ 0.54	\$ 0.45	\$ 0.75	\$ 0.45
	Kirimi	\$ -	\$ *	\$ -	\$ *	\$ -	\$ *	\$ -	\$ *	\$ -	\$ *
	Fillets	\$ -	\$ *	\$ *	\$ *	\$ -	\$ *	\$ -	\$ 1.74	\$ -	\$ *
	Other Products	\$ 0.82	\$ 0.71	\$ 0.77	\$ 0.85	\$ 0.75	\$ 0.46	\$ 1.27	\$ 1.39	\$ 0.95	\$ 0.92
	All Products	\$ 0.47	\$ 0.48	\$ 0.70	\$ 0.57	\$ 0.81	\$ 0.56	\$ 0.55	\$ 0.51	\$ 0.75	\$ 0.46
Kamchatka Flounder (BSAI)	Head And Gut	\$ -	\$ -	\$ 0.70	\$ -	\$ 1.00	\$ -	\$ 0.55	\$ -	\$ 0.58	\$ -
	Fishmeal	\$ -	\$ -	\$ 0.75	\$ -	\$ 0.66	\$ *	\$ 1.29	\$ -	\$ 0.95	\$ -
	All Products	\$ -	\$ -	\$ 0.70	\$ -	\$ 1.00	\$ *	\$ 0.55	\$ -	\$ 0.58	\$ -

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Table 26: Continued

	Product	2010		2011		2012		2013		2014	
		At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside
Flathead Sole	Whole Fish	\$ 0.46	\$ 0.49	\$ 0.59	\$ 0.53	\$ 0.76	\$ 0.62	\$ 1.38	\$ 1.06	\$ 0.62	\$ 0.51
	Head And Gut	\$ 0.70	\$ 0.55	\$ 0.89	\$ 0.53	\$ 0.93	\$ 0.61	\$ 1.07	\$ 0.68	\$ 0.75	\$ 0.70
	Kirimi	\$ -	\$ *	\$ -	\$ *	\$ -	\$ *	\$ -	\$ *	\$ -	\$ 1.23
	Fillets	\$ -	\$ 1.90	\$ *	\$ 2.15	\$ *	\$ 2.00	\$ -	\$ 1.56	\$ *	\$ 1.36
	Other Products	\$ 0.88	\$ 0.56	\$ 0.82	\$ 0.73	\$ 0.75	\$ 0.37	\$ 1.35	\$ 1.30	\$ 0.95	\$ 0.92
	All Products	\$ 0.69	\$ 0.56	\$ 0.89	\$ 0.60	\$ 0.91	\$ 0.59	\$ 1.09	\$ 0.98	\$ 0.74	\$ 0.66
Rex Sole (GOA)	Whole Fish	\$ 0.91	\$ 0.91	\$ 1.12	\$ 1.02	\$ 1.12	\$ 1.12	\$ 1.21	\$ 0.94	\$ 1.12	\$ 0.86
	Head And Gut	\$ *	\$ *	\$ *	\$ *	\$ *	\$ *	\$ 1.76	\$ *	\$ 0.60	\$ *
	Kirimi	\$ -	\$ -	\$ -	\$ -	\$ -	\$ *	\$ -	\$ *	\$ -	\$ -
	Fillets	\$ -	\$ *	\$ -	\$ 1.83	\$ -	\$ *	\$ -	\$ 1.31	\$ -	\$ *
	Other Products	\$ -	\$ *	\$ -	\$ 0.74	\$ -	\$ *	\$ -	\$ *	\$ -	\$ *
	All Products	\$ 0.91	\$ 0.91	\$ 1.12	\$ 1.03	\$ 1.12	\$ 1.12	\$ 1.21	\$ 0.94	\$ 1.12	\$ 0.86
Rock Sole (BSAI)	Whole Fish	\$ 0.35	\$ 0.43	\$ 0.53	\$ *	\$ 0.66	\$ *	\$ 0.50	\$ *	\$ 0.53	\$ *
	Head And Gut	\$ 0.56	\$ -	\$ 0.69	\$ -	\$ 0.80	\$ -	\$ 0.54	\$ -	\$ 0.47	\$ -
	Head And Gut With Roe	\$ 0.84	\$ -	\$ 1.05	\$ -	\$ 1.28	\$ -	\$ 0.85	\$ -	\$ 0.90	\$ -
	Fillets	\$ -	\$ -	\$ *	\$ -	\$ -	\$ -	\$ *	\$ -	\$ *	\$ -
	Other Products	\$ 0.87	\$ 0.56	\$ 0.84	\$ 0.74	\$ 0.71	\$ 0.37	\$ 1.26	\$ 1.30	\$ 0.95	\$ 0.92
	All Products	\$ 0.61	\$ 0.55	\$ 0.77	\$ 0.74	\$ 0.91	\$ 0.37	\$ 0.58	\$ 1.30	\$ 0.58	\$ 0.92
Turbot (BSAI)	Whole Fish	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ *
	Head And Gut	\$ 1.80	\$ -	\$ 2.65	\$ *	\$ 2.09	\$ -	\$ 1.95	\$ -	\$ 1.51	\$ *
	Other Products	\$ 1.60	\$ 0.56	\$ 1.90	\$ 0.70	\$ 1.59	\$ 0.37	\$ 1.56	\$ 1.33	\$ 1.16	\$ 0.93
	All Products	\$ 1.74	\$ 0.56	\$ 2.45	\$ 0.68	\$ 1.96	\$ 0.37	\$ 1.86	\$ 1.33	\$ 1.43	\$ 0.93

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Table 26: Continued

		2010		2011		2012		2013		2014	
Product		At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside	At-sea	Shoreside
Yellowfin (BSAI)	Whole Fish	\$ 0.41	\$ -	\$ 0.55	\$ -	\$ 0.63	\$ *	\$ 1.34	\$ *	\$ 0.44	\$ *
	Head And Gut	\$ 0.54	\$ -	\$ 0.65	\$ -	\$ 0.63	\$ -	\$ 0.51	\$ -	\$ 0.48	\$ -
	Kirimi	\$ *	\$ -	\$ *	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Fillets	\$ -	\$ -	\$ -	\$ -	\$ *	\$ -	\$ -	\$ -	\$ -	\$ -
	Other Products	\$ 0.96	\$ 0.96	\$ 0.85	\$ 0.85	\$ 0.87	\$ 0.88	\$ 1.30	\$ 1.30	\$ 0.95	\$ 0.92
All Products		\$ 0.52	\$ 0.96	\$ 0.63	\$ 0.85	\$ 0.63	\$ 0.88	\$ 0.58	\$ 1.30	\$ 0.47	\$ 0.92
Flat Other (BSAI)	Whole Fish	\$ 0.86	\$ *	\$ 1.05	\$ 1.40	\$ 0.81	\$ *	\$ 0.90	\$ *	\$ 0.58	\$ *
	Head And Gut	\$ 0.46	\$ *	\$ 0.51	\$ *	\$ 0.58	\$ -	\$ 0.49	\$ -	\$ 0.47	\$ -
	Fillets	\$ -	\$ -	\$ *	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Other Products	\$ 0.97	\$ 0.56	\$ 0.84	\$ 0.74	\$ 0.87	\$ 0.37	\$ 1.26	\$ 1.30	\$ 0.95	\$ 0.92
	All Products		\$ 0.52	\$ 0.56	\$ 0.56	\$ 1.34	\$ 0.64	\$ 0.37	\$ 0.57	\$ 1.30	\$ 0.49
Rockfish	Whole Fish	\$ 1.26	\$ 0.74	\$ 1.49	\$ 0.94	\$ 0.96	\$ 0.98	\$ 1.19	\$ 0.84	\$ 2.13	\$ 0.69
	Head And Gut	\$ 1.11	\$ 1.32	\$ 1.70	\$ 1.74	\$ 1.40	\$ 1.75	\$ 1.02	\$ 1.32	\$ 1.22	\$ 1.33
	Other Products	\$ 1.09	\$ 1.83	\$ 1.24	\$ 2.76	\$ 1.17	\$ 3.48	\$ 1.12	\$ 2.85	\$ 1.24	\$ 2.01
	All Products		\$ 1.11	\$ 1.11	\$ 1.69	\$ 1.42	\$ 1.38	\$ 1.67	\$ 1.03	\$ 1.16	\$ 1.24
Atka Mackerel	Whole Fish	\$ 0.37	\$ *	\$ 0.45	\$ 0.54	\$ 0.63	\$ 0.70	\$ 0.83	\$ *	\$ 0.77	\$ 0.60
	Head And Gut	\$ 0.87	\$ -	\$ 1.15	\$ *	\$ 1.24	\$ -	\$ 1.33	\$ -	\$ 1.77	\$ -
	Other Products	\$ 0.56	\$ 0.56	\$ 0.64	\$ 0.47	\$ 0.71	\$ 0.36	\$ 1.12	\$ 1.09	\$ 1.52	\$ 0.51
	All Products		\$ 0.84	\$ 0.56	\$ 1.04	\$ 0.54	\$ 1.13	\$ 0.66	\$ 1.23	\$ 1.09	\$ 1.62

**Notes:** These estimates are based on data from both federal and state of Alaska fisheries. Prices based on confidential data have been excluded. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** At-sea and shoreside production reports and Commercial Operators Annual Reports (COAR) (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 27: Total product value per round metric ton of retained catch in the groundfish fisheries off Alaska by processor type, species, area and year, 2010-2014, (dollars).

	Species	Bering Sea & Aleutian Islands					Gulf of Alaska				
		2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
Motherships	Pollock	-	1,219	1,153	808	920	-	-	-	-	-
	Pacific Cod	-	404	965	538	482	-	-	-	-	-
Catcher processors	Pollock	1,321	1,190	1,206	1,037	1,019	661	883	659	682	526
	Sablefish	8,629	10,172	7,853	7,795	6,652	8,727	11,279	6,770	6,832	7,813
	Pacific Cod	1,494	1,687	1,501	1,181	1,409	1,425	1,622	1,479	1,064	1,210
	Flatfish	746	913	1,003	780	699	1,100	1,018	1,105	961	921
	Rockfish	1,307	1,967	1,572	1,172	1,434	1,300	2,059	1,568	1,103	1,448
	Atka Mackerel	1,131	1,484	1,584	1,681	2,381	1,135	1,694	1,856	2,076	1,851
	Other	460	483	624	484	480	689	1,098	1,245	1,921	1,228
Shoreside processors	Pollock	1,256	1,047	1,089	950	980	882	920	865	1,007	757
	Sablefish	11,955	11,264	9,152	9,920	9,571	8,566	11,319	8,246	6,744	8,380
	Pacific Cod	1,457	1,682	1,632	1,398	1,489	1,328	1,570	1,463	1,502	1,502
	Flatfish	541	815	741	1,102	553	557	678	799	831	700
	Rockfish	1,633	1,729	1,661	1,425	936	1,317	1,865	1,830	1,469	1,299
	Other	708	424	888	707	1,511	1,198	1,609	2,166	2,035	1,589

**Notes:** These estimates include the product value of catch from both federal and state of Alaska fisheries. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** At-sea and shoreside production reports, commercial operators annual report (COAR), and NMFS Alaska Region catch accounting system estimates of retained catch (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 28: Production of groundfish products in the fisheries off Alaska by species, product and area, 2010-2014, (1,000 metric tons product weight).

	Product	Bering Sea & Aleutian Islands					Gulf of Alaska				
		2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
Pollock	Whole Fish	0.7	1.5	1.7	1.8	1.4	0.5	0.5	0.5	0.7	0.3
	Head And Gut	49.2	44.8	29.1	41.0	37.5	11.6	14.8	19.0	21.3	29.7
	Roe	15.3	18.0	16.5	13.9	20.6	1.1	1.3	1.7	2.2	3.5
	Deep-Skin Fillets	40.3	46.2	55.5	51.6	43.7	*	*	*	*	*
	Other Fillets	66.5	115.0	91.1	119.3	132.1	4.7	5.7	5.9	5.8	8.2
	Surimi	97.1	141.0	157.1	161.7	171.3	6.5	7.1	9.9	8.6	12.3
	Minced Fish	21.6	30.4	31.0	30.7	26.1	*	0.5	0.6	0.2	0.2
	Fishmeal	38.3	52.8	52.5	53.9	56.8	*	0.1	*	*	*
	Other Products	25.4	33.3	38.2	33.0	36.0	0.8	0.6	0.6	0.8	0.5
Sablefish	Head And Gut	1.2	1.0	1.2	1.1	0.7	5.5	5.9	6.3	6.2	5.6
	Other Products	0	0	0.1	0	0	0.4	0.8	0.6	0.5	0.4
Pacific Cod	Whole Fish	0.9	1.2	1.5	2.4	1.0	2.1	1.3	1.8	1.2	0.5
	Head And Gut	66.4	88.8	104.2	97.8	100.6	13.9	17.3	15.4	6.6	13.9
	Salted/Split	*	*	*	-	-	*	*	-	*	-
	Roe	3.9	1.8	2.4	2.8	3.5	1.2	1.3	1.5	1.6	1.8
	Fillets	5.6	6.6	6.8	8.8	8.4	9.2	9.2	9.1	9.7	9.9
	Other Products	7.0	9.0	7.9	10.0	10.1	5.2	6.0	6.3	4.6	5.0
Flatfish	Whole Fish	14.9	17.4	22.5	10.5	21.6	4.7	4.1	3.5	5.2	5.5
	Head And Gut	114.2	130.1	133.8	142.6	129.2	5.9	12.0	8.4	8.6	16.9
	Kirimi	*	*	-	-	-	*	*	*	*	0.1
	Fillets	-	*	*	*	*	0.2	0.2	0.2	0.2	0.1
	Fishmeal	-	0	0	0	0	-	-	-	-	-
	Other Products	3.4	3.1	3.1	2.0	1.6	0.9	0.3	0.1	0	*
Rockfish	Whole Fish	0.2	0.7	1.3	0.5	0.5	3.2	3.0	1.9	3.3	3.8
	Head And Gut	10.9	13.4	12.3	16.3	17.5	9.3	8.9	10.4	8.6	10.1
	Other Products	0	0	0.1	0	0.1	0.5	0.4	0.6	0.4	0.4
Atka Mackerel	Whole Fish	2.2	5.3	5.6	2.9	3.3	-	-	*	-	*
	Head And Gut	37.3	26.9	24.2	11.1	17.1	0.5	0.5	0.4	0.5	0.5
	Other Products	0	0	0	0	0	*	-	*	*	-

**Notes:** These estimates include production resulting from catch from federal and state of Alaska fisheries. “\*” indicates a confidential value; “-” indicates no applicable data or value. Confidential data withheld from this table are included in the grand totals in Table 25.

**Source:** At-sea and shoreside production reports (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 29: Production of groundfish products in the fisheries off Alaska by species, product and processing mode, 2010-2014, (1,000 metric tons product weight).

	Product	At-sea					Shoreside				
		2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
Pollock	Whole Fish	0.04	0.11	0.24	0.16	0.31	1.20	1.90	1.95	2.32	1.36
	Head And Gut	19.80	38.83	26.05	37.86	35.40	41.01	20.77	22.10	24.40	31.76
	Roe	7.64	11.66	9.30	8.37	11.71	8.81	7.63	8.86	7.75	12.41
	Deep-Skin Fillets	27.51	32.25	36.84	36.83	32.68	12.78	13.94	18.65	14.76	11.01
	Other Fillets	31.29	58.32	47.55	59.63	63.68	39.88	62.40	49.41	65.44	76.60
	Surimi	52.78	70.80	77.93	80.85	87.80	50.81	77.27	89.11	89.41	95.84
	Minced Fish	17.75	23.49	25.06	23.47	19.98	3.83	7.50	6.53	7.47	6.28
	Fishmeal	14.64	22.58	21.08	20.98	23.25	23.67	30.34	31.44	32.89	33.60
Other Products	10.63	12.26	10.57	12.21	13.56	15.62	21.71	28.22	21.60	22.90	
Sablefish	Head And Gut	1.03	1.03	1.08	1.05	0.78	5.67	5.83	6.44	6.30	5.51
	Other Products	0.09	0.16	0.08	0.16	0.09	0.40	0.65	0.55	0.33	0.32
Pacific Cod	Whole Fish	0.84	0.63	1.28	1.99	0.19	2.17	1.84	1.99	1.65	1.24
	Head And Gut	61.53	78.50	86.92	84.36	84.46	18.79	27.57	32.69	20.03	30.05
	Salted/Split	-	-	-	-	-	*	*	*	*	-
	Roe	0.57	0.46	0.62	0.38	0.75	4.48	2.71	3.24	3.99	4.50
	Fillets	0.85	0.71	0.32	0.28	0.15	13.95	15.08	15.52	18.21	18.12
	Other Products	3.02	4.62	3.11	4.32	3.10	9.26	10.44	11.06	10.27	12.03
Flatfish	Whole Fish	17.32	18.86	23.86	12.37	22.89	2.21	2.68	2.16	3.34	4.18
	Head And Gut	116.68	136.38	138.44	146.87	141.80	3.47	5.69	3.78	4.33	4.30
	Kirimi	*	*	-	-	-	*	*	*	*	0.13
	Fillets	-	*	*	*	*	0.25	0.19	0.19	0.21	0.14
	Fishmeal	-	0	0	0.01	0.01	-	-	*	-	-
	Other Products	2.45	2.46	2.23	1.61	1.30	1.86	1.01	0.89	0.41	0.28
Rockfish	Whole Fish	1.01	0.82	1.17	0.52	0.63	2.43	2.78	2.07	3.27	3.64
	Head And Gut	17.52	19.73	19.42	22.35	24.66	2.63	2.59	3.23	2.63	2.91
	Other Products	0.02	0.06	0.03	0.03	0.05	0.52	0.37	0.66	0.36	0.39
Atka Mackerel	Whole Fish	2.15	5.07	5.43	2.91	3.17	*	0.25	0.20	*	0.08
	Head And Gut	37.84	27.41	24.51	11.67	17.63	-	*	-	-	-
	Other Products	0	0	0	0	0	0	0	0.03	0	0

**Notes:** These estimates include production resulting from catch from federal and state of Alaska fisheries. “\*” indicates a confidential value; “-” indicates no applicable data or value. Confidential data withheld from this table are included in the grand totals in Table 25.

**Source:** At-sea and shoreside production reports (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.



Table 30: Production and real gross value of non-groundfish products in the commercial fisheries of Alaska by species group and area of processing, 2010-2014, (1,000 metric tons product weight and \$ millions).

Species	Bering Sea & Aleutian Islands		Gulf of Alaska		All Alaska		
	Quantity	Value	Quantity	Value	Quantity	Value	
2010	Salmon	63.3	\$ 532.3	187.1	\$ 1,072.0	250.4	\$ 1,604.3
	Halibut	2.5	\$ 51.3	13.5	\$ 225.9	16.0	\$ 277.2
	Herring	24.9	\$ 31.5	22.2	\$ 38.9	47.2	\$ 70.5
	Crab	18.6	\$ 279.8	4.2	\$ 66.3	22.8	\$ 346.1
	Other	0.2	\$ 1.3	1.5	\$ 30.1	1.8	\$ 31.4
	All Species	109.5	\$ 896.2	228.5	\$ 1,433.1	338.0	\$ 2,329.3
2011	Salmon	48.6	\$ 449.5	198.7	\$ 1,164.4	247.3	\$ 1,614.0
	Halibut	2.8	\$ 60.1	8.2	\$ 157.9	11.0	\$ 218.0
	Herring	20.4	\$ 23.9	21.0	\$ 24.7	41.4	\$ 48.7
	Crab	19.5	\$ 360.5	4.6	\$ 84.0	24.1	\$ 444.5
	Other	*	\$ *	1.3	\$ 25.4	1.3	\$ 25.4
	All Species	91.3	\$ 894.1	233.8	\$ 1,456.5	325.1	\$ 2,350.6
2012	Salmon	39.8	\$ 362.3	168.3	\$ 1,082.1	208.1	\$ 1,444.4
	Halibut	2.0	\$ 37.7	8.5	\$ 144.7	10.5	\$ 182.4
	Herring	16.2	\$ 22.6	15.4	\$ 32.9	31.6	\$ 55.5
	Crab	29.0	\$ 410.7	4.6	\$ 75.6	33.6	\$ 486.3
	Other	0	\$ 0	1.7	\$ 36.6	1.7	\$ 37.4
	All Species	87.0	\$ 834.0	198.6	\$ 1,372.0	285.5	\$ 2,206.0
2013	Salmon	34.7	\$ 382.6	290.3	\$ 1,573.7	325.1	\$ 1,956.2
	Halibut	1.4	\$ 19.0	7.5	\$ 123.4	8.9	\$ 142.5
	Herring	25.5	\$ 27.1	11.6	\$ 23.8	37.1	\$ 50.9
	Crab	24.7	\$ 353.5	3.0	\$ 48.4	27.7	\$ 401.9
	Other	0	\$ 0	1.3	\$ 27.7	1.3	\$ 28.5
	All Species	86.4	\$ 783.0	313.7	\$ 1,797.0	400.1	\$ 2,580.0
2014	Salmon	56.1	\$ 435.4	176.8	\$ 957.2	232.9	\$ 1,392.6
	Halibut	0.6	\$ 8.1	5.5	\$ 101.1	6.2	\$ 109.2
	Herring	19.5	\$ 16.8	20.4	\$ 24.3	39.9	\$ 41.1
	Crab	22.6	\$ 315.2	3.8	\$ 58.2	26.4	\$ 373.4
	Other	0	\$ 0	1.2	\$ 17.9	1.2	\$ 18.4
	All Species	98.9	\$ 776.1	207.7	\$ 1,158.8	306.6	\$ 1,934.8

**Notes:** These estimates include production resulting from catch in both federal and state of Alaska fisheries. The data have been adjusted to 2014 dollars by applying the Producer Price Index for unprocessed and packaged fish (series number WPU0223) from the Bureau of Labor Statistics at: <http://data.bls.gov/cgi-bin/srgate>. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** ADF&G Commercial Operators Annual Report (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 31: Gross product value of Alaska groundfish by area and processing mode, 1992-2014, (\$ millions).

Year	Bering Sea & Aleutian Islands		Gulf of Alaska		All Alaska
	At-sea	Shoreside	At-sea	Shoreside	All Sectors
1992	844.4	329.4	71.1	186.7	1,431.5
1993	585.1	195.5	45.7	170.3	996.6
1994	640.1	267.2	37.1	186.0	1,130.4
1995	784.7	349.3	46.0	212.1	1,392.1
1996	706.0	296.1	48.5	181.1	1,231.7
1997	706.3	293.2	30.2	200.9	1,230.5
1998	599.4	258.3	28.3	184.4	1,070.4
1999	639.0	325.3	43.0	209.5	1,216.7
2000	691.9	416.1	41.5	209.5	1,359.0
2001	877.6	464.5	31.0	167.1	1,540.1
2002	810.3	477.5	36.5	157.6	1,482.0
2003	848.8	534.0	39.8	148.5	1,571.1
2004	955.0	519.0	32.6	167.6	1,674.2
2005	1,128.4	625.9	36.6	211.9	2,002.8
2006	1,174.7	610.2	48.3	221.3	2,054.5
2007	1,204.7	614.8	46.2	226.4	2,092.0
2008	1,298.2	641.0	47.3	253.6	2,240.2
2009	978.2	498.3	41.1	194.1	1,711.7
2010	1,064.8	518.7	50.3	262.4	1,896.2
2011	1,447.4	656.1	69.0	339.2	2,511.7
2012	1,469.3	699.4	51.5	322.4	2,542.7
2013	1,224.7	629.7	36.9	292.9	2,184.2
2014	1,279.4	665.9	62.9	325.7	2,333.9

**Notes:** These estimates include the product value of catch from both federal and state of Alaska fisheries.

**Source:** At-sea and shoreside production reports and ADFG Commercial Operators Annual Reports (COAR) (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 32: Gross product value of Alaska groundfish by catcher/processor category, vessel length, and area, 2010-2014, (\$ millions).

	Year	Bering Sea & Aleutian Islands			Gulf of Alaska	
		<125	>165	125-165	<125	>=125
Fixed Gear	2010	44.0	44.9	80.3	7.5	11.4
	2011	58.3	62.2	117.7	11.7	11.8
	2012	64.8	57.2	111.1	6.9	6.2
	2013	42.5	51.4	84.6	*	6.3
	2014	39.9	64.0	97.3	2.7	9.3
Fillet Trawl	2010	-	*	-	-	-
	2011	-	79.6	-	-	-
	2014	-	*	-	-	-
Head And Gut Trawl	2010	33.7	207.9	48.9	7.6	23.8
	2011	47.9	287.9	64.4	8.4	37.1
	2012	48.4	307.1	74.2	9.3	28.4
	2013	33.1	244.1	51.9	8.7	19.4
	2014	28.7	286.4	48.6	*	37.7
Surimi Trawl	2010	-	479.5	-	-	-
	2011	-	595.0	-	-	-
	2012	-	684.8	-	-	-
	2013	-	627.6	-	-	-
	2014	-	570.1	-	-	-
All Trawl	2010	33.7	687.4	48.9	7.6	23.8
	2011	47.9	962.5	64.4	8.4	37.1
	2012	48.4	992.0	74.2	9.3	28.4
	2013	33.1	871.7	51.9	8.7	19.4
	2014	28.7	856.5	48.6	*	37.7

**Notes:** These estimates include the product value of catch from both federal and state of Alaska fisheries. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** At-sea processor reports, Commercial Operators Annual Reports (COAR), and NMFS permits (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 33: Gross product value per vessel of Alaska groundfish by catcher/processor category, vessel length, and area 2010-2014, (\$ millions).

	Year	Bering Sea & Aleutian Islands			Gulf of Alaska	
		<125	>165	125-165	<125	>=125
Fixed Gear	2010	2.9	4.5	4.7	0.8	1.0
	2011	4.2	7.8	7.8	1.5	1.1
	2012	5.0	6.4	7.4	1.0	0.8
	2013	3.5	5.7	5.6	*	0.9
	2014	4.4	7.1	6.1	0.7	1.0
Fillet Trawl	2010	-	*	-	-	-
	2011	-	26.5	-	-	-
	2014	-	*	-	-	-
Head And Gut Trawl	2010	6.7	18.9	12.2	2.5	1.7
	2011	9.6	24.0	16.1	2.1	2.9
	2012	9.7	23.6	18.6	2.3	2.2
	2013	11.0	18.8	13.0	2.9	1.8
	2014	9.6	22.0	12.2	*	4.2
Surimi Trawl	2010	-	36.9	-	-	-
	2011	-	49.6	-	-	-
	2012	-	48.9	-	-	-
	2013	-	44.8	-	-	-
	2014	-	43.9	-	-	-
All Trawl	2010	6.7	26.4	12.2	2.5	1.7
	2011	9.6	35.6	16.1	2.1	2.9
	2012	9.7	36.7	18.6	2.3	2.2
	2013	11.0	32.3	13.0	2.9	1.8
	2014	9.6	31.7	12.2	*	4.2

**Notes:** These estimates include the product value of catch from both federal and state of Alaska fisheries. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** At-sea processor reports, Commercial Operators Annual Reports (COAR), and NMFS permits. National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 34: Gross product value of groundfish processed by shoreside processors by processor group, 2010-2014, (\$ millions).

Region	2010	2011	2012	2013	2014
Bering Sea Pollock	510.1	675.8	699.4	636.0	691.1
AK Peninsula/Aleutians	20.5	44.2	61.1	35.9	30.2
Kodiak	128.5	161.7	168.5	157.2	179.3
South Central	36.2	58.3	48.5	34.3	30.0
Southeastern	41.5	51.2	51.0	35.8	39.6
All Regions	736.9	991.1	1,028.6	899.2	970.2

**Notes:** See Table 35 for notes and source information.

Table 35: Groundfish gross product value as a percentage of all-species gross product value by shoreside processor group, 2010-2014, (percent).

Region	2010	2011	2012	2013	2014
Bering Sea Pollock	72.8	72.8	75.7	74.3	79.1
AK Peninsula/Aleutians	4.5	8.8	11.8	6.9	5.5
Kodiak	42.9	46.4	46.0	41.6	55.2
South Central	7.2	13.8	10.2	5.4	6.6
Southeastern	8.8	8.3	9.8	5.7	7.8
All Regions	30.3	35.2	36.7	29.8	-

**Notes:** The data are for catch from both federal and state of Alaska fisheries. The processor groups are defined as follows: "Bering Sea Pollock" are the AFA inshore pollock processors including the two AFA floating processors. "AK Peninsula/Aleutian" are other processors on the Alaska Peninsula or in the Aleutian Islands. "Kodiak" are processors on Kodiak Island. "South Central" are processors west of Yakutat and on the Kenai Peninsula. "Southeastern" are processors located from Yakutat south.

**Source:** ADFG Commercial Operators Annual Report, ADFG intent to process (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 36: Number of groundfish vessels that caught or caught and processed more than \$19 million ex-vessel value or product value of groundfish and other species by area, vessel type and gear, 2013.

Gear	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska		
	Catcher Vessels	Catcher Processors	All Vessels	Catcher Vessels	Catcher Processors	All Vessels	Catcher Vessels	Catcher Processors	All Vessels
2013	Hook & Line	1	-	1	-	1	1	1	2
	Pot	-	-	-	1	1	2	1	2
	Trawl	-	10	10	1	27	28	1	27
	All Gear	1	10	11	2	29	31	3	29
2014	Hook & Line	-	-	-	-	1	1	-	1
	Pot	-	-	-	-	1	1	-	1
	Trawl	-	7	7	1	25	26	1	25
	All Gear	-	7	7	1	27	28	1	27

**Notes:** Includes only vessels that fished part of federal groundfish TACs. Determination that a vessel was below the \$19 million threshold was based on total revenue from catching or processing all species, not just groundfish. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** Commercial Operators Annual Report (COAR), ADFG intent-to-operate listings, CFEC fish tickets, at-sea production reports, NMFS permits. (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 37a: Number of groundfish vessels that caught or caught and processed less than \$19 million ex-vessel value or product value of groundfish and other species by area, vessel type and gear, 2013.

Gear	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
	Catcher Vessels	Catcher Processors	All Vessels	Catcher Vessels	Catcher Processors	All Vessels	Catcher Vessels	Catcher Processors	All Vessels	
2013	Hook & Line	819	10	829	125	32	157	882	34	916
	Pot	128	-	128	58	2	60	163	2	165
	Trawl	70	4	74	101	7	108	142	8	150
	All Gear	939	14	953	271	41	312	1,101	44	1,145
2014	Hook & Line	859	13	872	156	30	186	955	33	988
	Pot	102	-	102	54	3	57	148	3	151
	Trawl	71	4	75	99	9	108	145	10	155
	All Gear	962	17	979	299	41	340	1,167	45	1,212

**Notes:** Includes only vessels that fished part of federal groundfish TACs. Determination that a vessel was below the \$19 million threshold was based on total revenue from catching or processing all species, not just groundfish. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** Commercial Operators Annual Report (COAR), ADFG intent-to-operate listings, CFEC fish tickets, at-sea production reports, NMFS permits (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 37b: Number of groundfish vessels that caught or caught and processed less than \$19 million ex-vessel value or product value of groundfish and other species by area, vessel type and gear, 2013; entity size based on vessel revenues and affiliated group revenues.

Gear	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
	Catcher Vessels	Catcher Processors	All Vessels	Catcher Vessels	Catcher Processors	All Vessels	Catcher Vessels	Catcher Processors	All Vessels	
2013	Hook & Line	813	2	815	124	3	127	876	5	881
	Pot	124	-	124	32	1	33	135	1	136
	Trawl	33	1	34	18	-	18	42	1	43
	All Gear	894	3	897	162	4	166	970	7	977
2014	Hook & Line	853	3	856	154	1	155	949	4	953
	Pot	97	-	97	26	1	27	115	1	116
	Trawl	34	1	35	16	-	16	44	1	45
	All Gear	915	4	919	187	2	189	1,030	6	1,036

**Notes:** Includes only vessels that fished part of federal groundfish TACs. Determination that a vessel is above the \$19 million threshold is based on the vessel’s total revenue from catching or processing all species, not just groundfish. Entity size determination is additionally based on total vessel revenues of known affiliated groups (Amendment 80, AFA pollock, Central Gulf of Alaska rockfish, BSAI crab, and freezer longline cooperatives, as well as known corporate affiliations), whereby group revenue totaling over \$19 million confers large entity status on all member vessels. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** Alaska Commercial Fisheries Entry Commission (CFEC) fish tickets, at-sea production reports, NMFS permits, ADFG intent-to-operate listings (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.



Table 38: Average revenue of groundfish vessels that caught or caught and processed more than \$19 million ex-vessel value or product value of groundfish and other species, by area, vessel type, and gear, 2013, (\$ millions).

Gear	Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska	
	Catcher Vessels	Catcher Processors	Catcher Vessels	Catcher Processors	Catcher Vessels	Catcher Processors
2013 Hook & Line	*	-	-	*	*	*
2013 Pot	-	-	*	*	*	*
2013 Trawl	-	23.89	*	40.49	*	40.49
2014 Hook & Line	-	-	-	*	-	*
2014 Pot	-	-	-	*	-	*
2014 Trawl	-	27.14	*	44.31	*	44.31

**Notes:** Includes only vessels that fished part of federal groundfish TACs. Categories with fewer than four vessels are not reported. Averages are obtained by adding the total revenues, across all areas and gear types, of all the vessels in the category, and dividing that sum by the number of vessels in the category. Averages include revenue realized from catching or processing all species, not just groundfish. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** Commercial operators annual report (COAR), ADFG intent-to-operate listings, at-sea production reports, NMFS permits, (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 39a: Average revenue of groundfish vessels that caught or caught and processed less than \$19 million ex-vessel value or product value of groundfish and other species, by area, vessel type and gear, 2013, (\$ millions).

Year	Gear	Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska	
		Catcher Vessels	Catcher Processors	Catcher Vessels	Catcher Processors	Catcher Vessels	Catcher Processors
2013	Hook & Line	0.45	7.98	0.70	7.92	0.43	7.59
	Pot	0.87	-	2.12	*	1.22	*
	Trawl	1.67	12.23	2.99	15.81	2.54	14.48
2014	Hook & Line	0.38	7.24	0.46	8.30	0.35	7.77
	Pot	0.74	-	2.08	*	1.20	*
	Trawl	1.64	13.81	2.92	16.96	2.41	15.78

**Notes:** Includes only vessels that fished part of federal groundfish TACs. Categories with fewer than four vessels are not reported. Averages are obtained by adding the total revenues, across all areas and gear types, of all the vessels in the category, and dividing that sum by the number of vessels in the category. Averages include revenue realized from catching or processing all species, not just groundfish. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** Commercial operators annual report (COAR), ADFG intent-to-operate listings, at-sea production reports, NMFS permits, (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 39b: Average revenue of groundfish vessels that caught or caught and processed less than \$19 million ex-vessel value or product value of groundfish and other species, by area, vessel type and gear, 2013, (\$ millions); entity size based on vessel revenues and affiliated group revenues.

Year	Gear	Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska	
		Catcher Vessels	Catcher Processors	Catcher Vessels	Catcher Processors	Catcher Vessels	Catcher Processors
2013	Hook & Line	0.48	*	0.80	*	0.46	*
	Pot	0.99	-	1.28	*	1.01	*
	Trawl	2.79	*	3.64	-	2.67	*
2014	Hook & Line	0.40	*	0.53	*	0.38	*
	Pot	0.74	-	1.63	*	0.85	*
	Trawl	2.51	*	3.30	-	2.42	*

**Notes:** Includes only vessels that fished part of federal groundfish TACs. Determination that a vessel is above the \$19 million threshold is based on the vessel’s total revenue from catching or processing all species, not just groundfish. Categories with fewer than four vessels are not reported. Averages are obtained by adding the total revenues, across all areas and gear types, of all the vessels in the category, and dividing that sum by the number of vessels in the category. Entity size determination is additionally based on total vessel revenues of known affiliated groups (Amendment 80, AFA pollock, Central Gulf of Alaska rockfish, BSAI crab, and freezer longline cooperatives, as well as known corporate affiliations), whereby group revenue totaling over \$19 million confers large entity status on all member vessels. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** Alaska Commercial Fisheries Entry Commission (CFEC) fish tickets, at-sea production reports, NMFS permits, ADFG intent-to-operate listings (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 40: Number and total registered net tons of vessels that caught groundfish off Alaska by area and gear, 2007-2014.

	Year	Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska	
		Number Of Vessels	Registered Net Tons	Number Of Vessels	Registered Net Tons	Number Of Vessels	Registered Net Tons
Hook & Line	2007	627	24,022	85	14,035	656	30,646
	2008	668	24,199	107	15,103	711	31,585
	2009	609	22,636	77	13,862	643	29,454
	2010	633	22,215	72	12,427	657	28,138
	2011	716	23,380	78	11,088	747	28,645
	2012	726	21,638	68	10,686	764	28,688
	2013	516	17,206	67	11,019	560	24,949
	2014	550	19,188	52	10,450	581	25,214
Pot	2007	138	8,330	73	8,381	187	14,871
	2008	149	8,670	72	8,355	194	14,639
	2009	126	7,098	55	6,426	165	12,200
	2010	115	6,639	54	6,737	152	11,820
	2011	146	7,943	58	7,082	186	13,243
	2012	146	7,812	57	6,874	185	13,162
	2013	128	7,134	62	7,084	167	12,364
	2014	102	5,767	58	7,183	152	12,194
Trawl	2007	88	12,326	152	53,000	190	55,971
	2008	88	13,394	150	53,979	193	57,403
	2009	90	14,102	146	47,911	186	51,237
	2010	85	13,769	138	49,024	178	52,399
	2011	86	13,753	141	49,893	178	52,885
	2012	88	14,002	146	50,661	183	53,771
	2013	84	12,274	136	49,540	178	52,903
	2014	82	10,967	134	49,404	181	53,202
All Gear	2007	809	41,592	304	74,990	985	98,079
	2008	857	43,111	315	76,277	1,037	99,361
	2009	779	41,152	270	67,433	939	89,320
	2010	791	39,969	259	67,467	941	89,083
	2011	885	41,678	272	67,486	1,040	90,551
	2012	904	40,191	264	67,531	1,069	91,727
	2013	689	34,051	260	67,359	861	87,292
	2014	695	33,516	241	66,709	867	87,482

**Notes:** These estimates include only vessels fishing federal TACs. Registered net tons totals exclude mainly smaller vessels for which data were unavailable. Annually percentage of vessels missing is between 1-2%.

**Source:** NMFS Alaska Region Blend estimates, Catch Accounting System, fish tickets, observer data, federal permit file, CFEC vessel data (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 41: Number of vessels that caught groundfish off Alaska by area, vessel category, gear and target, 2010-2014.

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska		
		Catcher Vessels	Catcher Processors	Total	Catcher Vessels	Catcher Processors	Total	Catcher Vessels	Catcher Processors	Total
Sablefish	2010	301	9	310	19	10	29	309	14	323
	2011	299	9	308	24	9	33	313	13	326
	2012	297	7	304	25	5	30	311	10	321
	2013	265	7	272	18	6	24	274	11	285
	2014	263	6	269	13	5	18	269	9	278
Pacific Cod	2010	233	19	252	16	36	52	239	39	278
	2011	323	15	338	20	31	51	331	35	366
	2012	320	9	329	13	32	45	327	35	362
	2013	181	5	186	19	29	48	197	30	227
	2014	203	10	213	8	29	37	210	31	241
Hook & Line Flatfish	2010	-	-	-	-	12	12	-	12	12
	2011	-	-	-	-	8	8	-	8	8
	2012	-	-	-	-	7	7	-	7	7
	2013	-	-	-	-	4	4	-	4	4
	2014	-	-	-	-	3	3	-	3	3
Rockfish	2010	144	-	144	-	3	3	144	3	147
	2011	150	-	150	1	-	1	150	-	150
	2012	174	-	174	-	2	2	174	2	176
	2013	143	-	143	1	3	4	144	3	147
	2014	144	-	144	1	2	3	145	2	147
All Groundfish	2010	611	22	633	33	39	72	617	40	657
	2011	697	19	716	43	35	78	710	37	747
	2012	711	15	726	34	34	68	726	38	764
	2013	506	10	516	34	33	67	525	35	560
	2014	537	13	550	21	31	52	547	34	581

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Table 41: Continued

		Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
	Year	Catcher Vessels	Catcher Processors	Total	Catcher Vessels	Catcher Processors	Total	Catcher Vessels	Catcher Processors	Total	
Pot	Pacific Cod	2010	115	-	115	44	6	50	142	6	148
		2011	144	1	145	47	5	52	174	5	179
		2012	144	1	145	49	5	54	176	5	181
		2013	128	-	128	56	3	59	161	3	164
		2014	100	-	100	51	4	55	143	4	147
	Pollock	2010	63	-	63	90	29	119	134	29	163
		2011	62	3	65	86	31	117	129	31	160
		2012	67	1	68	90	32	122	135	32	167
		2013	64	3	67	88	32	120	133	33	166
		2014	68	2	70	89	34	123	138	34	172
Trawl	Sablefish	2010	13	1	14	-	-	-	13	1	14
		2011	14	-	14	-	-	-	14	-	14
		2012	12	-	12	-	-	-	12	-	12
		2013	17	-	17	-	2	2	17	2	19
		2014	12	1	13	-	1	1	12	2	14
	Pacific Cod	2010	52	1	53	48	18	66	90	19	109
		2011	52	1	53	50	16	66	86	16	102
		2012	61	3	64	60	18	78	101	18	119
		2013	54	1	55	54	18	72	95	18	113
		2014	55	-	55	50	14	64	97	14	111
	Flatfish	2010	28	6	34	-	29	29	28	30	58
		2011	31	6	37	3	30	33	33	31	64
		2012	32	5	37	4	30	34	36	31	67
		2013	31	5	36	7	27	34	38	28	66
		2014	27	6	33	4	28	32	31	29	60

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Table 41: Continued

		Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
	Year	Catcher Vessels	Catcher Processors	Total	Catcher Vessels	Catcher Processors	Total	Catcher Vessels	Catcher Processors	Total	
	Rockfish	2010	28	15	43	2	15	17	30	19	49
		2011	26	12	38	2	16	18	28	18	46
		2012	31	16	47	2	17	19	33	20	53
		2013	30	13	43	1	16	17	31	19	50
		2014	29	9	38	3	17	20	32	19	51
Trawl	Atka Mackerel	2010	-	1	1	2	7	9	2	8	10
		2011	-	1	1	5	9	14	5	9	14
		2012	-	-	-	3	11	14	3	11	14
		2013	-	2	2	3	10	13	3	11	14
		2014	-	-	-	3	8	11	3	8	11
	All Groundfish	2010	68	17	85	103	35	138	142	36	178
		2011	69	17	86	105	36	141	141	37	178
		2012	71	17	88	110	36	146	146	37	183
		2013	70	14	84	102	34	136	143	35	178
		2014	71	11	82	100	34	134	146	35	181
All Gear	All Groundfish	2010	752	39	791	182	77	259	862	79	941
		2011	848	37	885	199	73	272	964	76	1,040
		2012	871	33	904	191	73	264	991	78	1,069
		2013	665	24	689	190	70	260	788	73	861
		2014	671	24	695	173	68	241	795	72	867

**Notes:** The target is determined based on vessel, week, catching mode, NMFS area, and gear. These estimates include only vessels that fished part of federal TACs. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch Accounting System estimates, fish tickets, observer data, federal permit file, CFEC vessel data (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 42: Number of vessels, mean length and mean net tonnage for vessels that caught groundfish off Alaska by area, vessel-length class (feet), and gear, 2009-2013, (excluding catcher-processors).

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
		<60	60-125	>=125	<60	60-125	>=125	<60	60-125	>=125	
Number of vessels	Hook & Line	2009	532	54	-	31	6	-	544	56	-
		2010	556	52	-	28	5	-	561	53	-
		2011	641	52	-	38	5	-	652	54	-
		2012	659	47	-	33	1	-	673	48	-
		2013	467	39	-	31	2	-	484	40	-
	Pot	2009	99	25	-	19	24	8	107	45	8
		2010	90	24	1	14	25	9	95	42	9
		2011	119	26	-	15	31	7	125	49	7
		2012	122	23	-	20	24	8	128	44	8
		2013	106	22	-	25	26	8	113	43	8
	Trawl	2009	28	44	-	7	75	28	28	93	28
		2010	25	43	-	5	70	28	26	88	28
		2011	23	45	-	1	76	28	23	89	28
		2012	23	47	-	6	74	30	24	91	30
		2013	25	44	-	2	71	29	25	88	29
Mean vessel length (feet)	Hook & Line	2009	44	72	-	48	83	-	45	73	-
		2010	44	72	-	47	77	-	45	72	-
		2011	43	74	-	47	78	-	44	74	-
		2012	44	73	-	48	98	-	44	73	-
		2013	45	73	-	44	82	-	45	73	-
	Pot	2009	54	87	-	56	105	134	54	96	134
		2010	54	91	133	56	105	134	55	98	134
		2011	53	92	-	57	108	136	54	101	136
		2012	54	91	-	57	108	135	54	100	135
		2013	54	90	-	56	109	136	54	101	136

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Table 42: Continued

		Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
		Year	<60	60-125	>=125	<60	60-125	>=125	<60	60-125	>=125
Mean vessel length (feet)	Trawl	2009	58	94	-	58	107	155	58	102	155
		2010	58	93	-	58	106	155	58	101	155
		2011	58	93	-	58	105	155	58	101	155
		2012	58	94	-	56	106	157	57	101	157
		2013	58	94	-	58	107	156	58	102	156
Mean Registered net tons	Hook & Line	2009	26	60	-	36	96	-	26	63	-
		2010	25	62	-	36	87	-	26	64	-
		2011	25	65	-	32	100	-	25	68	-
		2012	24	66	-	36	156	-	25	68	-
		2013	26	60	-	33	102	-	27	62	-
	Pot	2009	46	92	-	61	126	128	48	109	128
		2010	47	96	97	66	115	145	49	106	140
		2011	44	100	-	67	118	149	46	110	149
		2012	45	101	-	68	123	147	48	112	147
		2013	47	97	-	67	119	147	51	109	147
Trawl	2009	65	103	-	67	115	238	65	111	238	
	2010	69	103	-	67	116	238	69	111	238	
	2011	69	101	-	75	114	238	69	109	238	
	2012	69	102	-	59	114	244	67	110	244	
	2013	67	100	-	62	115	241	67	109	241	

**Notes:** If the permit files do not report a length for a vessel, the vessel is counted in the "less than 60 feet" class. These estimates include only vessels that fished part of federal TACs. "\*" indicates a confidential value; "-" indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch Accounting System, ADFG fish tickets, observer data, NMFS permits (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 43: Number of smaller hook-and-line vessels that caught groundfish off Alaska, by area and vessel-length class (feet), 2010-2014(excluding catcher-processors).

		Year	<26	26-29	30-34	35-39	40-44	45-49	50-54	55-60	>=60
Number of vessels	Gulf of Alaska	2010	18	11	72	73	110	93	59	123	52
		2011	32	17	91	85	124	103	67	126	52
		2012	25	18	91	90	136	107	71	126	47
		2013	14	6	57	50	101	76	60	103	39
		2014	20	8	54	65	102	77	65	107	39
	Bering Sea & Aleutian Islands	2010	1	-	3	4	2	4	4	10	5
		2011	1	-	5	5	3	6	6	12	5
		2012	-	-	3	6	3	5	4	12	1
		2013	2	3	5	3	1	4	3	11	2
		2014	1	-	2	2	1	3	3	6	3
	All Alaska	2010	18	11	72	75	110	94	59	125	53
		2011	33	17	92	88	124	103	68	131	54
		2012	25	18	92	94	137	108	72	132	48
		2013	16	9	59	52	101	77	61	110	40
		2014	21	8	55	65	102	79	66	111	40

**Notes:** If the permit files do not report a length for a vessel, the vessel is counted in the “<26” class. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch Accounting System, ADFG fish tickets, observer data, NMFS permits (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 44: Number of vessels, mean length and mean net tonnage for vessels that caught and processed groundfish off Alaska by area, vessel-length class (feet), and gear, 2010-2014.

	Year	Gulf of Alaska					Bering Sea & Aleutian Islands					All Alaska					
		<125	125-165	166-235	236-260	>260	<125	125-165	166-235	236-260	>260	<125	125-165	166-235	236-260	>260	
Hook & Line	2010	11	6	5	-	-	14	16	9	-	-	15	16	9	-	-	
	2011	9	5	5	-	-	14	14	7	-	-	16	14	7	-	-	
	2012	8	5	2	-	-	12	14	8	-	-	16	14	8	-	-	
	2013	2	5	3	-	-	12	13	8	-	-	14	13	8	-	-	
	2014	4	5	4	-	-	9	14	8	-	-	12	14	8	-	-	
Number of vessels Pot	2010	-	-	-	-	-	3	2	1	-	-	3	2	1	-	-	
	2011	-	1	-	-	-	2	2	1	-	-	2	2	1	-	-	
	2012	-	1	-	-	-	2	2	1	-	-	2	2	1	-	-	
	2013	-	-	-	-	-	-	2	1	-	-	-	2	1	-	-	
	2014	-	-	-	-	-	1	2	1	-	-	1	2	1	-	-	
Trawl	2010	3	3	9	1	1	5	4	9	3	14	6	4	9	3	14	
	2011	4	2	9	1	1	5	4	10	3	14	6	4	10	3	14	
	2012	4	2	9	1	1	5	4	10	3	14	6	4	10	3	14	
	2013	3	2	8	1	-	3	4	10	3	14	4	4	10	3	14	
	2014	2	3	5	1	-	3	4	10	3	14	4	4	10	3	14	
Mean vessel length (feet)	Hook & Line	2010	100	140	176	-	-	106	144	176	-	-	103	143	176	-	-
		2011	94	136	176	-	-	107	144	175	-	-	102	142	176	-	-
		2012	90	136	177	-	-	108	144	176	-	-	101	142	176	-	-
		2013	68	141	175	-	-	114	142	177	-	-	107	142	177	-	-
		2014	76	139	176	-	-	113	142	177	-	-	101	141	177	-	-
	Pot	2010	-	-	-	-	-	112	165	166	-	-	112	165	166	-	-
		2011	-	165	-	-	-	101	165	166	-	-	101	165	166	-	-
		2012	-	165	-	-	-	114	165	166	-	-	114	165	166	-	-
		2013	-	-	-	-	-	-	165	166	-	-	-	165	166	-	-
		2014	-	-	-	-	-	124	165	166	-	-	124	165	166	-	-

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Table 44: Continued

		Gulf of Alaska					Bering Sea & Aleutian Islands					All Alaska					
		Year	<125	125-165	166-235	236-260	>260	<125	125-165	166-235	236-260	>260	<125	125-165	166-235	236-260	>260
Mean vessel length (feet)	Trawl	2010	112	144	204	238	295	115	148	204	245	306	114	146	204	243	305
		2011	111	146	204	238	295	116	148	204	245	306	114	147	204	243	305
		2012	115	150	204	238	295	116	148	204	245	306	115	148	204	243	305
		2013	117	146	201	238	-	122	148	204	245	306	120	147	202	243	306
		2014	114	144	207	238	-	122	148	204	245	306	119	146	205	243	306
	Hook & Line	2010	121	225	562	-	-	127	312	471	-	-	124	288	504	-	-
		2011	100	242	562	-	-	121	294	513	-	-	113	281	534	-	-
		2012	96	241	652	-	-	117	294	478	-	-	108	280	513	-	-
		2013	114	232	533	-	-	126	307	546	-	-	124	286	543	-	-
		2014	105	232	696	-	-	112	295	546	-	-	110	278	596	-	-
Mean Registered net Pot tons		2010	-	-	-	-	-	169	461	192	-	-	169	461	192	-	-
		2011	-	128	-	-	-	123	461	192	-	-	123	350	192	-	-
		2012	-	128	-	-	-	123	461	192	-	-	123	350	192	-	-
		2013	-	-	-	-	-	-	461	192	-	-	-	461	192	-	-
		2014	-	-	-	-	-	135	461	192	-	-	135	461	192	-	-
	Trawl	2010	121	214	584	611	693	138	254	584	985	1,713	132	237	584	892	1,645
		2011	125	256	584	611	693	134	254	588	985	1,713	130	254	586	892	1,645
		2012	123	255	584	611	693	134	254	588	985	1,713	129	254	586	892	1,645
		2013	119	256	584	611	-	133	254	588	985	1,713	126	254	586	892	1,713
		2014	113	214	661	611	-	133	254	588	985	1,713	125	237	612	892	1,713

**Notes:** If the permit files do not report a length for a vessel, the vessel is counted in the “less than 125 feet” class. These estimates include only vessels that fished part of federal TACs. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch Accounting System, NMFS permits (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 45: Number of vessels that caught groundfish off Alaska by area, tonnage caught, and gear, 2007-2014.

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska		
		<2 MT	2-25MT	>25MT	<2 MT	2-25MT	>25MT	<2 MT	2-25MT	>25MT
Hook & Line	2007	211	165	250	20	15	50	229	178	275
	2008	217	209	242	21	26	60	238	232	271
	2009	172	197	240	6	13	58	178	208	270
	2010	179	188	266	3	16	53	182	202	291
	2011	205	233	278	5	22	51	210	249	309
	2012	197	222	307	8	14	46	204	235	339
	2013	133	142	241	11	8	48	144	150	278
	2014	154	139	257	7	6	39	161	145	286
Pot	2007	9	14	115	3	4	66	11	18	166
	2008	8	26	115	4	2	66	12	28	160
	2009	12	23	91	1	5	49	13	28	127
	2010	8	6	101	-	5	49	8	11	133
	2011	35	9	102	1	1	56	36	10	143
	2012	18	20	108	-	-	57	18	20	150
	2013	7	18	103	2	3	57	9	21	140
	2014	5	8	89	-	4	54	5	12	136
Trawl	2007	1	1	86	-	1	151	1	2	189
	2008	1	1	86	-	3	147	1	4	192
	2009	2	2	86	-	1	145	2	3	183
	2010	1	-	84	1	-	137	2	-	176
	2011	1	5	80	-	1	140	1	6	173
	2012	1	1	86	-	5	141	1	6	182
	2013	1	1	82	-	2	134	1	3	176
	2014	2	-	80	-	1	133	2	1	179
All Gear	2007	221	179	424	23	20	265	241	196	600
	2008	226	234	414	24	30	270	250	261	588
	2009	186	218	392	6	19	247	192	235	548
	2010	188	193	423	4	21	235	192	212	570
	2011	239	243	434	6	24	242	245	261	592
	2012	216	238	473	8	19	239	223	256	637
	2013	141	161	397	12	13	237	153	174	561
	2014	161	146	397	7	11	223	168	157	567

**Notes:** These estimates include only vessels fishing part of federal TACs. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Blend estimates, Catch Accounting System, fish tickets, observer data, federal permit file, CFEC vessel data (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 46: Number of vessels that caught groundfish off Alaska by area, residency, gear, and target,2010-2014.

	Year	Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska		
		Alaska	Other	Alaska	Other	Alaska	Other	
Hook & Line	Pollock	2010	1	-	-	-	1	-
		2011	5	-	1	-	6	-
		2012	1	-	-	-	1	-
		2013	4	-	-	2	4	2
		2014	2	-	-	-	2	-
	Sablefish	2010	223	87	16	13	229	94
		2011	221	87	19	14	233	93
		2012	219	85	19	11	230	91
		2013	195	77	13	11	201	84
		2014	194	75	10	8	199	79
	Pacific Cod	2010	221	31	22	30	229	49
		2011	299	39	26	25	308	58
		2012	304	25	21	24	316	46
		2013	167	19	25	23	190	37
		2014	194	19	15	22	206	35
	Flatfish	2010	-	-	2	10	2	10
		2011	-	-	2	6	2	6
		2012	-	-	-	7	-	7
		2013	-	-	-	4	-	4
		2014	-	-	-	3	-	3
Rockfish	2010	126	18	-	3	126	21	
	2011	133	17	1	-	133	17	
	2012	156	18	-	2	156	20	
	2013	130	13	1	3	131	16	
	2014	129	15	2	1	131	16	
All Groundfish	2010	509	124	38	34	516	141	
	2011	581	135	43	35	592	155	
	2012	605	121	37	31	623	141	
	2013	415	101	36	31	438	122	
	2014	450	100	24	28	464	117	
Pot	Pacific Cod	2010	96	19	21	29	105	43
		2011	124	21	19	33	132	47
		2012	124	21	21	33	133	48
		2013	109	19	23	36	117	47
		2014	86	14	24	31	105	42
Trawl	Pollock	2010	30	33	14	105	38	125
		2011	26	39	9	108	30	130
		2012	27	41	8	114	30	137
		2013	26	41	9	111	30	136
		2014	31	39	9	114	35	137

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Table 46: Continued

		Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska		
		Alaska	Other	Alaska	Other	Alaska	Other	
		Year						
Trawl	Sablefish	2010	5	9	-	-	5	9
		2011	7	7	-	-	7	7
		2012	5	7	-	-	5	7
		2013	6	11	-	2	6	13
		2014	6	7	-	1	6	8
	Pacific Cod	2010	25	28	5	61	28	81
		2011	19	34	8	58	21	81
		2012	26	38	9	69	28	91
		2013	26	29	6	66	27	86
		2014	29	26	3	61	30	81
	Flatfish	2010	16	18	8	21	23	35
		2011	13	24	3	30	16	48
		2012	12	25	2	32	14	53
		2013	13	23	1	33	14	52
		2014	12	21	3	29	15	45
	Rockfish	2010	19	24	3	14	20	29
		2011	13	25	1	17	14	32
		2012	15	32	-	19	15	38
		2013	15	28	1	16	16	34
		2014	14	24	1	19	15	36
	Atka Mackerel	2010	-	1	-	9	-	10
		2011	-	1	-	14	-	14
		2012	-	-	-	14	-	14
		2013	-	2	-	13	-	14
		2014	-	-	-	11	-	11
	All Groundfish	2010	36	49	15	123	40	138
		2011	28	58	11	130	32	146
		2012	29	59	11	135	33	150
2013		30	54	10	126	34	144	
2014		33	49	9	125	37	144	
All Gear All Groundfish	2010	610	181	75	184	632	309	
	2011	683	202	75	197	706	334	
	2012	713	191	67	197	743	326	
	2013	526	163	70	190	561	300	
	2014	541	154	58	183	574	293	

**Notes:** The target is determined based on vessel, week, processing mode, NMFS area, and gear. Vessels are classified by the residency of the owner of the fishing vessel. These estimates include only vessels fishing part of federal TACs. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch Accounting System, fish tickets, observer data, federal permit file, CFEC vessel data (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 47: Number of vessels that caught groundfish off Alaska by month, area, vessel type, and gear, 2010-2014.

		Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	
Gulf of Alaska	Hook & Line	2010	87	97	131	224	288	150	142	142	178	87	32	16	611	
		2011	90	104	192	334	202	148	137	109	187	149	35	61	697	
		2012	89	129	247	335	337	204	134	148	190	137	66	42	711	
		2013	61	91	167	247	231	197	109	116	97	117	69	40	506	
		2014	58	96	191	233	285	135	102	121	127	96	74	46	537	
	Catcher Vessels	Pot	2010	69	93	61	23	2	1	-	-	45	27	2	2	115
			2011	72	110	81	-	1	-	-	1	56	53	4	25	145
		2012	64	91	132	1	1	-	-	-	42	40	27	19	145	
		2013	75	73	102	23	-	-	-	-	14	16	13	12	128	
		2014	57	40	87	7	2	-	-	3	38	39	22	11	102	
	Trawl	2010	52	59	48	38	27	18	15	37	53	50	14	3	68	
		2011	39	44	51	33	19	15	9	23	50	54	9	1	69	
		2012	33	58	54	36	20	18	13	23	59	57	23	6	71	
		2013	39	52	58	19	23	18	9	40	42	48	19	2	70	
		2014	41	63	61	51	25	20	12	47	59	52	23	4	71	
	All Gear	2010	206	240	231	284	317	169	157	178	269	158	48	21	752	
		2011	199	255	308	365	222	163	146	133	291	254	48	87	848	
		2012	186	271	413	370	358	222	147	170	291	231	114	67	871	
		2013	173	212	317	287	254	215	118	156	153	180	101	54	665	
		2014	147	199	326	290	312	155	114	171	218	184	119	61	671	
Catcher Processors	Hook & Line	2010	3	17	5	3	4	3	2	3	11	6	-	-	22	
		2011	10	8	1	5	4	2	2	2	6	5	2	3	19	
		2012	7	4	4	7	4	3	2	1	2	4	2	1	15	
		2013	1	2	3	4	3	6	4	2	1	-	2	1	10	
		2014	1	6	8	5	3	2	1	1	3	3	3	1	13	
	Pot	2011	1	1	-	-	-	-	-	-	-	-	-	-	1	
		2012	1	-	-	-	-	-	-	-	-	-	-	-	1	
	Trawl	2010	-	1	4	5	2	-	16	1	1	2	2	2	17	
		2011	-	1	3	6	1	4	14	3	2	3	2	-	17	
		2012	2	1	-	5	1	1	17	6	1	2	1	1	17	
		2013	-	1	3	3	2	4	13	3	1	2	4	2	14	
		2014	-	-	1	5	4	3	7	6	3	7	5	1	11	
	All Gear	2010	3	18	9	8	6	3	18	4	12	8	2	2	39	
		2011	11	10	4	11	5	6	16	5	8	8	4	3	37	
		2012	10	5	4	12	5	4	19	7	3	6	3	2	33	
2013		1	3	6	7	5	10	17	5	2	2	6	3	24		
2014		1	6	9	10	7	5	8	7	6	10	8	2	24		

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Table 47: Continued

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year		
Bering Sea & Aleutian Islands	Hook & Line	2010	2	4	2	2	9	13	15	14	16	6	4	-	33	
		2011	5	5	4	5	12	15	22	20	17	10	3	-	43	
		2012	3	4	4	3	11	15	18	14	13	7	4	-	34	
		2013	5	3	5	5	5	15	12	12	11	5	5	2	34	
		2014	5	4	5	6	5	7	10	8	9	7	4	2	21	
	Catcher Vessels	Pot	2010	28	9	15	5	5	4	3	2	11	18	12	-	48
			2011	35	12	16	6	9	6	3	4	29	32	3	-	53
			2012	38	18	9	9	5	5	3	1	22	19	5	8	52
			2013	41	23	10	12	3	3	2	2	9	16	9	21	59
			2014	41	21	18	19	14	1	1	1	14	13	11	12	54
	Trawl	2010	47	89	99	65	-	59	67	66	33	16	-	-	103	
		2011	53	94	91	81	1	69	72	70	58	52	11	-	105	
		2012	66	88	101	56	2	71	74	76	60	29	16	-	110	
		2013	78	91	94	61	3	71	74	69	43	16	4	-	102	
		2014	42	81	81	65	2	71	72	71	55	4	1	-	100	
	All Gear	2010	77	102	116	72	14	76	85	82	60	40	16	-	182	
		2011	93	111	111	92	21	90	97	94	104	94	17	-	199	
		2012	107	110	114	68	18	91	95	91	95	55	25	8	191	
		2013	124	117	109	78	11	89	88	83	63	37	17	23	190	
		2014	88	106	104	90	21	79	83	80	78	24	14	14	173	
Hook & Line	2010	36	36	13	7	8	9	15	25	27	28	26	20	39		
	2011	23	27	29	24	15	15	23	27	30	31	28	24	35		
	2012	24	27	29	25	14	22	30	30	31	28	27	29	34		
	2013	26	26	25	18	13	13	21	28	27	29	28	26	33		
	2014	26	26	28	25	18	20	26	25	25	27	27	24	31		
Catcher Processors	Pot	2010	2	3	2	3	3	3	-	2	4	3	2	1	6	
		2011	5	-	1	2	1	-	-	-	2	3	1	1	5	
		2012	5	2	1	1	1	1	1	1	3	3	3	-	5	
		2013	3	2	-	-	-	-	-	-	3	3	3	2	3	
		2014	4	4	2	1	1	-	-	-	3	3	3	1	4	
Trawl	2010	28	33	32	22	19	24	28	29	25	20	12	2	35		
	2011	27	34	33	31	21	32	32	31	33	32	25	6	36		
	2012	28	33	33	19	20	33	28	30	33	20	14	4	36		
	2013	28	31	32	25	19	33	28	32	31	24	13	6	34		
	2014	30	34	34	21	19	31	29	30	28	18	14	4	34		
All Gear	2010	66	71	47	32	30	36	43	56	56	51	40	23	77		
	2011	55	61	63	57	37	47	55	58	65	65	54	31	73		
	2012	57	62	63	45	35	56	59	61	67	51	44	33	73		
	2013	57	59	57	43	32	46	49	60	61	56	44	34	70		
	2014	60	64	64	47	38	51	55	55	56	48	44	29	68		

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Table 47: Continued

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year		
All Alaska	Hook & Line	2010	89	99	133	225	295	162	152	155	188	91	36	16	617	
		2011	93	107	196	339	213	161	155	128	198	157	38	61	710	
		2012	91	133	251	338	346	215	150	159	202	144	70	42	726	
		2013	66	94	172	252	236	210	118	127	107	122	73	42	525	
		2014	63	100	196	239	290	141	110	129	134	103	78	48	547	
	Catcher Vessels	Pot	2010	95	99	73	28	7	5	3	2	56	43	14	2	146
			2011	101	118	92	6	10	6	3	5	84	85	7	25	181
			2012	99	105	140	10	6	5	3	1	63	57	31	27	180
			2013	112	89	112	35	3	3	2	2	23	31	22	33	164
			2014	98	61	105	26	16	1	1	4	51	52	33	23	148
	Trawl	2010	99	135	134	97	27	72	79	99	86	64	14	3	142	
		2011	92	124	134	110	20	77	79	91	106	105	20	1	141	
		2012	99	140	138	88	22	84	86	98	114	85	39	6	146	
		2013	117	136	136	77	26	83	81	97	81	61	23	2	143	
		2014	83	139	137	108	27	86	81	111	108	56	24	4	146	
	All Gear	2010	281	324	331	349	329	239	234	255	323	192	64	21	862	
		2011	284	346	406	453	242	244	237	224	386	345	65	87	964	
		2012	289	371	509	434	373	304	239	257	379	282	138	75	991	
		2013	293	315	410	362	265	296	201	226	210	213	117	77	788	
		2014	234	300	425	370	332	228	192	244	287	208	133	75	795	
Hook & Line	2010	38	38	17	8	11	10	16	27	32	31	26	20	40		
	2011	29	31	29	26	17	17	25	28	34	33	28	25	37		
	2012	27	29	31	29	17	24	31	31	33	31	29	30	38		
	2013	27	27	27	20	15	19	23	29	28	29	29	27	35		
	2014	27	28	29	26	20	22	27	26	27	28	28	25	34		
Catcher Processors	Pot	2010	2	3	2	3	3	3	-	2	4	3	2	1	6	
		2011	5	1	1	2	1	-	-	-	2	3	1	1	5	
		2012	5	2	1	1	1	1	1	1	3	3	3	-	5	
		2013	3	2	-	-	-	-	-	-	3	3	3	2	3	
		2014	4	4	2	1	1	-	-	-	3	3	3	1	4	
Trawl	2010	28	34	33	25	20	24	31	30	26	21	13	4	36		
	2011	27	35	34	34	22	33	35	33	34	33	27	6	37		
	2012	29	33	33	20	21	34	34	33	33	21	15	5	37		
	2013	28	32	33	27	20	34	30	33	32	25	14	7	35		
	2014	30	34	35	23	21	32	34	34	30	20	17	5	35		
All Gear	2010	68	74	52	36	34	37	47	59	62	55	41	25	79		
	2011	61	66	64	62	40	50	60	61	70	68	56	32	76		
	2012	61	64	65	50	39	59	66	65	69	55	47	35	78		
	2013	58	61	60	47	35	53	53	62	63	57	46	36	73		
	2014	61	66	66	50	42	54	61	60	60	51	48	31	72		

**Notes:** These estimates include only vessels fishing part of federal TACs. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch Accounting System, fish tickets, observer data, federal permit file, CFEC vessel data (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 48: Catcher vessel (excluding catcher-processors) weeks of fishing groundfish off Alaska by area, vessel-length class (feet), gear, and target, 2010-2014.

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
		<60	60-125	>=125	<60	60-125	>=125	<60	60-125	>=125	
Hook & Line	Sablefish	2010	1,027	270	-	94	26	-	1,120	296	-
		2011	1,041	262	-	101	18	-	1,142	280	-
		2012	1,302	314	-	118	15	-	1,420	329	-
		2013	1,268	339	-	91	14	-	1,358	353	-
		2014	1,160	307	-	78	19	-	1,238	326	-
	Pacific Cod	2010	1,480	42	-	78	0	-	1,558	42	-
		2011	1,719	70	-	130	1	-	1,848	71	-
		2012	2,285	56	-	74	-	-	2,359	56	-
		2013	1,201	18	-	74	-	-	1,275	18	-
		2014	1,520	20	-	102	-	-	1,622	20	-
	Rockfish	2010	453	5	-	-	-	-	453	5	-
		2011	476	1	-	1	-	-	477	1	-
		2012	571	3	-	-	-	-	571	3	-
		2013	508	2	-	0	-	-	508	2	-
		2014	425	4	-	1	-	-	426	4	-
All Groundfish	2010	2,978	318	-	172	26	-	3,150	344	-	
	2011	3,244	333	-	232	19	-	3,476	352	-	
	2012	4,162	373	-	192	15	-	4,354	388	-	
	2013	2,990	359	-	165	14	-	3,155	373	-	
	2014	3,107	331	-	181	19	-	3,288	350	-	
Pot	Pacific Cod	2010	738	165	2	108	138	34	846	303	36
		2011	880	200	-	131	175	42	1,011	375	42
		2012	862	280	-	196	110	42	1,058	390	42
		2013	714	201	-	221	124	31	935	325	31
		2014	756	216	-	344	115	29	1,100	331	29

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Table 48: Continued

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska		
		<60	60-125	>=125	<60	60-125	>=125	<60	60-125	>=125
Pollock	2010	203	332	-	1	756	483	204	1,089	483
	2011	175	304	-	-	1,057	655	175	1,361	655
	2012	198	398	-	-	946	642	198	1,344	642
	2013	87	384	-	-	903	608	87	1,286	608
	2014	181	550	-	-	838	553	181	1,389	553
Sablefish	2010	12	9	-	-	-	-	12	9	-
	2011	4	13	-	-	-	-	4	13	-
	2012	-	10	-	-	-	-	-	10	-
	2013	4	21	-	-	-	-	4	21	-
	2014	2	7	-	-	-	-	2	7	-
Trawl Pacific Cod	2010	39	162	-	18	205	28	57	367	28
	2011	30	123	-	1	264	37	31	387	37
	2012	87	145	-	18	284	49	105	429	49
	2013	116	88	-	8	263	39	124	351	39
	2014	163	73	-	13	247	35	176	320	35
Flatfish	2010	17	203	-	-	-	-	17	203	-
	2011	2	199	-	-	0	16	2	200	16
	2012	5	141	-	-	1	28	5	142	28
	2013	8	170	-	-	0	47	8	170	47
	2014	9	151	-	-	2	31	9	152	31
Rockfish	2010	6	102	-	-	-	5	6	102	5
	2011	2	91	-	-	-	6	2	91	6
	2012	12	120	-	-	-	6	12	120	6
	2013	11	99	-	-	-	8	11	99	8
	2014	7	101	-	-	-	11	7	101	11

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Table 48: Continued

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
		<60	60-125	>=125	<60	60-125	>=125	<60	60-125	>=125	
Trawl	Atka Mackerel	2010	-	-	-	-	1	13	-	1	13
		2011	-	-	-	-	3	15	-	3	15
		2012	-	-	-	-	-	22	-	-	22
		2013	-	-	-	-	-	7	-	-	7
		2014	-	-	-	-	-	12	-	-	12
	All Groundfish	2010	278	809	-	19	962	529	297	1,771	529
		2011	213	733	-	1	1,325	728	214	2,058	728
		2012	302	814	-	18	1,231	747	320	2,045	747
		2013	225	762	-	8	1,166	710	233	1,928	710
		2014	362	881	-	13	1,087	642	375	1,968	642
All Gear All Groundfish	2010	3,998	1,291	2	299	1,192	588	4,297	2,483	590	
	2011	4,341	1,266	-	364	1,606	788	4,705	2,872	788	
	2012	5,327	1,468	-	406	1,393	800	5,733	2,861	800	
	2013	3,929	1,321	-	394	1,340	761	4,323	2,661	761	
	2014	4,228	1,431	-	538	1,254	686	4,766	2,685	686	

**Notes:** These estimates include only vessels fishing part of federal TACs. A vessel that fished more than one category in a week is apportioned a partial week based on catch weight. A target is determined based on vessel, week, processing mode, NMFS area, and gear. All groundfish include additional target categories. "\*" indicates a confidential value; "-" indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch Accounting System, fish tickets, observer data, federal permit file, CFEC vessel data (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 49: Catcher/processor vessel weeks of fishing groundfish off Alaska by area, vessel-length class (feet), gear, and target, 2010-2014.

	Year	Gulf of Alaska				Bering Sea & Aleutian Islands				All Alaska			
		<60	60-124	125-230	>230	<60	60-124	125-230	>230	<60	60-124	125-230	>230
Sablefish	2010	6	5	27	-	-	37	22	-	6	42	48	-
	2011	6	3	29	-	2	67	9	-	8	70	38	-
	2012	8	-	25	-	-	75	6	-	8	75	31	-
	2013	11	-	27	-	-	84	3	-	11	84	31	-
	2014	7	-	18	-	-	41	2	-	7	41	21	-
Pacific Cod	2010	15	45	30	-	12	198	526	-	27	243	556	-
	2011	13	63	23	-	-	252	696	-	13	315	719	-
	2012	11	45	9	-	10	319	732	-	21	364	742	-
	2013	-	23	13	-	-	239	718	-	-	262	731	-
	2014	2	22	29	-	7	250	817	-	9	272	846	-
Hook & Line Flatfish	2010	-	-	-	-	3	4	72	-	3	4	72	-
	2011	-	-	-	-	2	2	47	-	2	2	47	-
	2012	-	-	-	-	-	7	45	-	-	7	45	-
	2013	-	-	-	-	-	1	15	-	-	1	15	-
	2014	-	-	-	-	-	5	12	-	-	5	12	-
Rockfish	2010	-	-	-	-	-	-	0	-	-	-	0	-
	2012	-	-	-	-	-	1	0	-	-	1	0	-
	2013	-	-	-	-	-	2	0	-	-	2	0	-
	2014	-	-	-	-	-	1	-	-	-	1	-	-
All Groundfish	2010	21	50	57	-	15	239	620	-	36	289	677	-
	2011	19	66	52	-	4	321	752	-	23	387	804	-
	2012	19	45	34	-	10	402	784	-	29	447	818	-
	2013	11	23	41	-	-	326	736	-	11	349	777	-
	2014	9	22	48	-	7	298	831	-	16	320	879	-

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Table 49: Continued

		Gulf of Alaska				Bering Sea & Aleutian Islands				All Alaska				
Year		<60	60-124	125-230	>230	<60	60-124	125-230	>230	<60	60-124	125-230	>230	
Pot	Pacific Cod	2010	-	-	-	-	66	25	-	-	66	25	-	
		2011	-	-	3	-	15	29	-	-	15	32	-	
		2012	-	-	0	-	22	38	-	-	22	38	-	
		2013	-	-	-	-	-	54	-	-	-	54	-	
		2014	-	-	-	-	19	53	-	-	19	53	-	
Trawl	Pollock	2010	-	-	-	-	3	9	237	-	3	9	237	
			2011	-	0	0	-	4	10	414	-	4	10	414
			2012	-	0	-	-	2	5	313	-	2	5	313
			2013	-	1	0	-	3	14	309	-	4	14	309
			2014	-	0	0	-	1	14	305	-	1	14	305
	Sablefish	2010	-	-	0	-	-	-	-	-	-	-	0	-
			2013	-	-	-	-	0	0	-	-	0	0	-
			2014	-	0	-	-	-	0	-	-	0	0	-
	Pacific Cod	2010	-	0	-	-	-	5	7	8	-	5	7	8
			2011	-	-	1	-	4	4	1	-	4	6	1
			2012	-	4	0	-	6	3	5	-	10	3	5
			2013	-	-	0	-	4	11	5	-	4	11	5
			2014	-	-	-	-	0	9	12	-	0	9	12
	Flatfish	2010	-	49	9	-	-	149	356	51	-	199	366	51
			2011	-	50	17	-	144	406	52	-	194	423	52
		2012	-	39	10	-	125	402	69	-	164	412	69	
		2013	-	48	12	-	105	401	87	-	153	412	87	
		2014	-	62	27	-	92	415	81	-	154	442	81	

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Table 49: Continued

		Gulf of Alaska				Bering Sea & Aleutian Islands				All Alaska				
Year		<60	60-124	125-230	>230	<60	60-124	125-230	>230	<60	60-124	125-230	>230	
Trawl	Rockfish	2010	-	3	33	3	-	0	18	7	-	3	51	10
		2011	-	-	29	2	-	5	24	12	-	5	53	14
		2012	-	3	26	1	-	5	25	10	-	8	51	11
		2013	-	3	27	1	-	0	40	16	-	3	66	16
		2014	-	2	29	3	-	3	34	12	-	5	63	15
	Atka Mackerel	2010	-	-	0	-	-	-	77	33	-	-	77	33
		2011	-	-	0	-	-	0	60	25	-	0	60	25
		2012	-	-	-	-	-	1	63	24	-	1	63	24
		2013	-	0	0	-	-	0	33	13	-	0	33	13
		2014	-	-	-	-	-	-	40	19	-	-	40	19
All Groundfish	2010	-	53	43	3	-	157	467	335	-	210	510	338	
	2011	-	50	47	2	-	156	505	504	-	206	552	506	
	2012	-	46	36	1	-	140	498	422	-	186	534	423	
	2013	-	52	39	1	-	113	498	428	-	165	537	429	
	2014	-	65	56	3	-	96	513	428	-	161	569	431	
All Gear	All Groundfish	2010	21	103	100	3	15	462	1,112	335	36	565	1,212	338
		2011	19	116	102	2	4	495	1,292	504	23	611	1,394	506
		2012	19	91	71	1	10	576	1,319	422	29	667	1,390	423
		2013	11	75	79	1	-	439	1,289	428	11	514	1,368	429
		2014	9	87	104	3	7	413	1,397	428	16	500	1,501	431

**Notes:** These estimates include only vessels fishing part of federal TACs. A vessel that fished more than one category in a week is apportioned a partial week based on catch weight. A target is determined based on vessel, week, processing mode, NMFS area, and gear. All groundfish include additional target categories. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch Accounting System, fish tickets, observer data, federal permit file, CFEC vessel data (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.



Table 50: Total at-sea processor vessel crew weeks in the groundfish fisheries off Alaska by month and area, 2010-2014.

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Gulf of Alaska	2010	67	630	237	544	265	55	1,629	102	462	446	*	*	4,437
	2011	498	267	112	635	251	196	1,404	323	376	483	167	175	4,887
	2012	370	186	86	471	220	144	1,161	396	128	178	110	*	3,450
	2013	*	98	214	326	204	433	951	341	*	*	283	96	2,946
	2014	*	190	358	638	233	201	834	526	312	427	415	*	4,134
Bering Sea & Aleutian Islands	2010	7,796	12,775	10,917	4,412	3,899	5,442	10,389	9,231	6,891	6,079	3,380	1,326	82,537
	2011	6,311	13,513	13,817	8,407	3,882	7,601	13,600	11,967	12,266	14,208	5,033	2,105	112,710
	2012	6,434	13,755	15,928	4,383	3,621	10,683	11,700	12,300	11,670	5,207	3,661	2,757	102,099
	2013	4,694	13,341	16,032	4,875	3,756	8,744	9,974	13,745	8,716	5,773	4,581	2,506	96,737
	2014	4,472	13,482	16,511	4,776	4,981	8,841	11,722	14,986	8,523	4,935	4,706	2,384	100,319
All Alaska	2010	7,863	13,405	11,154	4,956	4,164	5,497	12,018	9,333	7,353	6,525	3,380	1,326	86,974
	2011	6,809	13,780	13,929	9,042	4,133	7,797	15,004	12,290	12,642	14,691	5,200	2,280	117,597
	2012	6,804	13,941	16,014	4,854	3,841	10,827	12,861	12,696	11,798	5,385	3,771	2,757	105,549
	2013	4,694	13,439	16,246	5,201	3,960	9,177	10,925	14,086	8,716	5,773	4,864	2,602	99,683
	2014	4,472	13,672	16,869	5,414	5,214	9,042	12,556	15,512	8,835	5,362	5,121	2,384	104,453

**Notes:** Crew weeks are calculated by summing weekly reported crew size over vessels and time period. These estimates include only vessels targeting groundfish counted toward federal TACs. Catcher processors typically account for 90-95% of the total crew weeks in all areas. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** Weekly Processor Reports (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

#### 4.1. Economic Data Tables for Pacific Halibut

Table H1A: Commercial halibut catch (net landed weight) by FMP area, 2010-2014, (hundreds of metric tons).

Year	Gulf Of Alaska	Bering Sea & Aleutian Islands	All Alaska
2010	167.50	31.03	198.53
2011	116.48	32.52	149.00
2012	93.03	23.69	116.72
2013	86.39	17.52	103.91
2014	64.78	13.40	78.18

**Source:** ADF&G/CFEC Fish Tickets, data compiled by AKFIN in Comprehensive FT.

Table H1B: Commercial halibut catch (net landed weight) by IPHC area, 2010-2014, (hundreds of metric tons).

Area	2010	2011	2012	2013	2014
2C	20.85	11.13	12.31	13.78	13.28
3A	96.35	67.95	55.40	51.70	34.10
3B	47.16	34.31	23.31	19.02	8.70
4A	10.33	10.39	7.02	5.47	3.37
4B	8.10	9.18	7.75	5.54	4.93
4CDE	15.75	16.04	10.94	8.39	5.59

**Notes:** 4CDE refers to Areas 4C, 4D and 4E.

**Source:** ADF&G/CFEC Fish Tickets, data compiled by AKFIN in Comprehensive FT.

Table H2: Commercial halibut catch (net landed weight) by vessel length and FMP, 2010-2014, (hundreds of metric tons).

	Length	Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska	
		Net Tons	Percent	Net Tons	Percent	Net Tons	Percent
2010	<20	0.13	0	0.49	0.02	0.62	0
	20-29	2.76	0.02	2.87	0.09	5.63	0.03
	30-39	20.45	0.12	3.54	0.11	23.99	0.12
	40-49	61.31	0.37	6.09	0.20	67.40	0.34
	50-59	51.74	0.31	9.47	0.31	61.21	0.31
	>=60	30.91	0.18	8.58	0.28	39.48	0.20
2011	<20	0.09	0	0.32	0.01	0.41	0
	20-29	1.91	0.02	2.86	0.09	4.77	0.03
	30-39	15.10	0.13	3.77	0.12	18.86	0.13
	40-49	40.36	0.35	5.91	0.18	46.27	0.31
	50-59	36.67	0.32	10.02	0.31	46.69	0.31
	>=60	22.07	0.19	9.65	0.30	31.72	0.21
2012	<20	0.10	0	0.29	0.01	0.39	0
	20-29	1.61	0.02	2.34	0.10	3.95	0.03
	30-39	12.56	0.14	2.82	0.12	15.38	0.13
	40-49	33.72	0.36	4.78	0.20	38.50	0.33
	50-59	28.45	0.31	7.92	0.33	36.37	0.31
	>=60	16.37	0.18	5.54	0.23	21.91	0.19
2013	<20	0.09	0	0.24	0.01	0.33	0
	20-29	1.79	0.02	2.17	0.12	3.95	0.04
	30-39	12.79	0.15	2.28	0.13	15.06	0.15
	40-49	30.84	0.36	2.79	0.16	33.63	0.32
	50-59	26.14	0.30	5.78	0.33	31.91	0.31
	>=60	14.50	0.17	4.26	0.24	18.76	0.18
2014	<20	0.10	0	0.19	0.01	0.29	0
	20-29	1.92	0.03	1.52	0.11	3.43	0.04
	30-39	10.36	0.16	1.96	0.15	12.31	0.16
	40-49	23.98	0.37	2.16	0.16	26.14	0.33
	50-59	19.32	0.30	4.45	0.33	23.78	0.30
	>=60	9.11	0.14	3.12	0.23	12.23	0.16

**Notes:** Excludes vessels in the Annette Island commercial halibut fishery.

**Source:** ADF&G/CFEC Fish Tickets, data compiled by AKFIN in Comprehensive FT; AKFIN vessel database.

Table H3: Non-halibut prohibited species catch on halibut target trips by PSC species and area, 2013-2014.

	Year	Bairdi Tanner Crab (Count)	Non-Chinook Salmon (Count)	Other King Crab (Count)	Red King Crab (Count)
Gulf of Alaska	2013	-	-	*	-
	2014	21	447	-	379
Bering Sea & Aleutian Islands	2013	-	-	663	-
	2014	-	-	307	-
All Alaska	2013	-	-	663	-
	2014	21	447	307	379

Source: AKRO PSC.

Table H4A: Halibut ex-vessel value and price by FMP area, 2010-2014, (millions of \$ and \$/lb net weight, respectively).

Year	Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska	
	Value	Price	Value	Price	Value	Price
2010	173.53	4.70	29.33	4.29	202.86	4.63
2011	162.89	6.34	43.60	6.08	206.49	6.29
2012	117.32	5.72	26.80	5.13	144.13	5.60
2013	95.75	5.03	16.66	4.32	112.41	4.91
2014	87.94	6.16	15.73	5.33	103.67	6.01

Source: ADF&G fish tickets / CFEC gross earnings.

Table H4B: Halibut ex-vessel price and value by IPHC area, 2010-2014, (\$/lb net weight and millions, respectively).

		2010	2011	2012	2013	2014
2C	Value	21.68	15.71	16.24	15.67	17.62
	Price	4.72	6.40	5.98	5.16	6.02
3A	Value	100.32	94.80	70.08	58.05	47.05
	Price	4.72	6.33	5.74	5.09	6.26
3B	Value	48.37	47.97	28.62	20.20	11.63
	Price	4.65	6.34	5.57	4.82	6.06
4A	Value	10.38	14.81	8.23	5.32	4.27
	Price	4.56	6.47	5.32	4.41	5.75
4B	Value	7.57	12.23	8.60	5.14	5.88
	Price	4.24	6.04	5.04	4.21	5.41
4CDE	Value	14.54	20.97	12.35	8.02	6.20
	Price	4.19	5.93	5.12	4.34	5.03

Source: ADF&G fish tickets / CFEC gross earnings.

Table H5: Halibut ex-vessel value and average value per vessel by FMP area and vessel length, 2010-2014, (millions and thousands \$, respectively).

	Length	Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska	
		Value	Avg. Value/Vessel	Value	Avg. Value/Vessel	Value	Avg. Value/Vessel
2010	<20	0.14	5.66	0.34	6.50	0.48	6.24
	20-29	2.88	21.30	2.22	16.72	5.10	19.17
	30-39	21.09	64.29	3.08	73.23	24.16	67.68
	40-49	63.38	175.56	5.93	247.18	69.31	188.35
	50-59	53.67	367.64	9.11	364.54	62.79	418.59
	>=60	32.17	536.23	8.64	298.00	40.82	627.94
2011	<20	0.13	6.11	0.29	4.83	0.42	5.16
	20-29	2.68	19.71	3.05	20.34	5.73	20.18
	30-39	20.93	66.86	4.61	104.85	25.54	74.25
	40-49	56.15	160.42	8.30	332.14	64.45	182.06
	50-59	51.64	356.16	13.74	490.67	65.38	432.99
	>=60	30.97	533.94	13.60	485.78	44.57	685.70
2012	<20	0.13	5.31	0.31	6.44	0.44	6.14
	20-29	2.07	17.42	2.27	15.77	4.34	16.58
	30-39	15.78	53.50	3.17	67.39	18.95	57.25
	40-49	42.68	124.07	5.50	229.33	48.18	137.67
	50-59	35.91	249.38	9.05	323.27	44.96	299.75
	>=60	20.46	401.22	6.50	282.65	26.96	464.88
2013	<20	0.10	5.26	0.20	3.84	0.30	4.27
	20-29	2.00	16.98	2.09	13.40	4.09	15.00
	30-39	14.10	53.01	2.10	53.87	16.20	54.74
	40-49	34.06	108.13	2.59	152.44	36.65	114.19
	50-59	29.07	215.32	5.49	196.16	34.56	245.12
	>=60	16.16	336.65	4.18	199.28	20.34	383.85
2014	<20	0.13	5.76	0.18	10.94	0.31	8.09
	20-29	2.60	21.47	1.38	26.99	3.97	23.24
	30-39	13.97	51.73	2.17	65.84	16.14	55.08
	40-49	32.15	106.46	2.57	151.45	34.72	113.85
	50-59	26.41	195.63	5.46	248.22	31.87	229.29
	>=60	12.68	294.99	3.97	233.41	16.65	362.02

**Notes:** Excludes vessels in the Annette Island commercial halibut fishery. Length is measured in feet.

**Source:** ADF&G/CFEC Fish Tickets, data compiled by AKFIN in Comprehensive FT; AKFIN vessel database.

Table H6: Halibut ex-vessel value, price per net lb and percent of statewide ex-vessel value and yearly port rank for top 10 Alaska ports by value, 2010-2014, (millions \$ and \$/lb).

	Port	2010	2011	2012	2013	2014
Rank	Homer	1	1	2	1	1
	Kodiak	2	2	1	2	2
	Seward	3	3	3	3	3
	Dutch Harbor	4	4	4	5	5
	Sitka	5	7	5	6	6
	Juneau	6	9	8	4	7
	St Paul Island	7	5	7	9	13
	Petersburg	9	10	6	7	4
	Sand Point	8	6	9	14	12
	Yakutat	10	12	10	8	10
Value	Homer	54.78	37.76	26.93	24.24	18.51
	Kodiak	30.63	36.24	27.59	16.60	15.94
	Seward	23.52	23.20	15.77	14.79	11.50
	Dutch Harbor	*	*	10.94	*	*
	Sitka	9.43	8.54	*	6.02	*
	Juneau	8.83	7.16	5.90	6.86	5.61
	St Paul Island	*	*	*	*	*
	Petersburg	7.61	6.19	6.36	5.56	7.62
	Sand Point	*	*	*	*	*
	Yakutat	*	*	*	*	*
Price	Homer	4.65	6.02	5.50	4.95	6.05
	Kodiak	4.84	6.49	5.64	4.88	6.32
	Seward	4.65	6.27	5.83	5.07	6.17
	Dutch Harbor	*	*	5.25	*	*
	Sitka	4.79	6.61	*	5.06	*
	Juneau	4.57	6.06	5.69	5.44	5.93
	St Paul Island	*	*	*	*	*
	Petersburg	4.73	6.46	6.07	5.18	6.24
	Sand Point	*	*	*	*	*
	Yakutat	*	*	*	*	*
Percent	Homer	0.27	0.18	0.19	0.22	0.18
	Kodiak	0.15	0.18	0.19	0.15	0.15
	Seward	0.12	0.11	0.11	0.13	0.11
	Dutch Harbor	*	*	0.08	*	*
	Sitka	0.05	0.04	*	0.05	*
	Juneau	0.04	0.03	0.04	0.06	0.05
	St Paul Island	*	*	*	*	*
	Petersburg	0.04	0.03	0.04	0.05	0.07
	Sand Point	*	*	*	*	*
	Yakutat	*	*	*	*	*

Notes: “\*” indicates a confidential value; “-” indicates no applicable data or value.

Source: ADF&G fish tickets / CFEC gross earnings.

Table H7: Halibut first wholesale production volume, value and price by product, 2010-2014, (1000s of metric tons, millions \$ and \$/lb, respectively).

	Year	Quantity	Value	Price
Head and Gut	2010	12.21	158.17	5.88
	2011	7.71	127.39	7.49
	2012	6.70	105.24	7.12
	2013	6.46	92.69	6.51
	2014	4.80	81.92	7.73
Fillet	2010	3.12	74.23	10.81
	2011	2.61	65.33	11.36
	2012	1.94	53.20	12.47
	2013	1.66	35.78	9.80
	2014	0.85	24.85	13.26
Other Products	2010	0.65	1.77	1.24
	2011	0.67	1.76	1.19
	2012	1.85	4.22	1.03
	2013	0.83	2.90	1.58
	2014	0.50	2.47	2.23
All Products	2010	15.97	234.17	6.65
	2011	10.99	194.48	8.03
	2012	10.49	162.65	7.03
	2013	8.94	131.37	6.66
	2014	6.16	109.24	8.05

**Source:** ADF&G Commercial Operators Annual Report, data compiled by AKFIN in Comprehensive ENCOAR PROD.

Table H8: Halibut first wholesale value of shoreside processors and percentage share of statewide wholesale value by region, 2010-2014, (millions \$).

	Year	Value	Percent
AK Peninsula/Aleutians	2010	55.79	24.0000000000
	2011	60.63	31.0000000000
	2012	41.28	25.0000000000
	2013	19.07	15.0000000000
	2014	8.83	8.0000000000
Kodiak	2010	42.19	18.0000000000
	2011	44.50	23.0000000000
	2012	33.75	21.0000000000
	2013	22.94	17.0000000000
	2014	22.12	20.0000000000
Southcentral	2010	82.80	35.0000000000
	2011	43.38	22.0000000000
	2012	48.82	30.0000000000
	2013	51.27	39.0000000000
	2014	37.15	34.0000000000
Southeast	2010	50.33	22.0000000000
	2011	42.46	22.0000000000
	2012	36.25	22.0000000000
	2013	36.25	28.0000000000
	2014	40.31	37.0000000000
Southwest/ Other AK	2010	2.52	1.0000000000
	2011	1.95	1.0000000000
	2012	2.49	2.0000000000
	2013	1.63	1.0000000000
	2014	0.67	1.0000000000

**Notes:** Includes halibut processed by shoreside processors only.

**Source:** ADF&G Commercial Operators Annual Report, data compiled by AKFIN in Comprehensive ENCOAR PROD.



Table H9: Number of vessels and median length for vessels catching halibut, by FMP area and vessel length class, 2010-2014.

	Year	Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska	
		Vessels	Median Length	Vessels	Median Length	Vessels	Median Length
<20	2010	24	18	53	18	77	18
	2011	21	18	61	18	82	18
	2012	25	17	48	18	72	18
	2013	19	17	53	18	71	18
	2014	23	18	16	18	38	18
20-29	2010	135	26	133	24	266	24
	2011	136	26	150	24	284	24
	2012	119	25	144	24	262	24
	2013	118	25	156	24	273	24
	2014	121	25	51	26	171	26
30-39	2010	328	34	42	32	357	34
	2011	313	34	44	32	344	34
	2012	295	34	47	32	331	34
	2013	266	34	39	32	296	34
	2014	270	34	33	32	293	34
40-49	2010	361	45	24	48	368	45
	2011	350	45	25	47	354	45
	2012	344	45	24	48	350	45
	2013	315	45	17	48	321	45
	2014	302	45	17	48	305	45
50-59	2010	146	57	25	58	150	57
	2011	145	58	28	58	151	58
	2012	144	58	28	58	150	58
	2013	135	58	28	58	141	58
	2014	135	58	22	58	139	58
≥60	2010	60	72	29	73	65	73
	2011	58	73	28	76	65	76
	2012	51	72	23	78	58	74
	2013	48	71	21	76	53	73
	2014	43	72	17	76	46	72

**Notes:** Excludes vessels in the Annette Island commercial halibut fishery.

**Source:** ADF&G/CFEC Fish Tickets, data compiled by AKFIN in Comprehensive FT; AKFIN vessel database.

Table H10: Number of vessels catching halibut by FMP area and thousands of pounds caught, 2010-2014.

	Landings	2010	2011	2012	2013	2014
Gulf of Alaska	<1	121	158	142	112	129
	1-9	362	411	395	360	370
	10-24	221	175	191	189	203
	25-49	127	113	109	114	115
	50-74	61	51	64	58	55
	75-99	39	41	37	38	22
	100-199	101	73	40	30	-
	>=200	22	1	-	-	-
Bering Sea & Aleutian Islands	<1	106	118	126	141	20
	1-9	100	109	91	91	63
	10-24	28	36	30	27	30
	25-49	27	19	26	28	25
	50-74	19	21	20	20	12
	75-99	5	13	10	3	4
	100-199	17	18	11	4	2
	>=200	4	2	-	-	-
All Alaska	<1	221	274	267	250	147
	1-9	449	496	461	435	413
	10-24	226	191	205	198	211
	25-49	142	116	114	118	111
	50-74	57	50	62	59	64
	75-99	38	37	39	37	38
	100-199	104	107	74	58	8
	>=200	46	9	1	-	-

**Notes:** Excludes vessels in the Annette Island commercial halibut fishery.

**Source:** ADF&G fish tickets / CFEC gross earnings.

Table H11: Number of vessel catching halibut and the percentage of yearly halibut in area caught by FMP area and month, 2010-2014.

Month	Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska		
	Vessels	Percent	Vessels	Percent	Vessels	Percent	
2010	Mar-Apr	379	22.0000000000	7	2.0000000000	381	19.0000000000
	May	410	18.0000000000	22	6.0000000000	425	16.0000000000
	Jun	353	14.0000000000	139	17.0000000000	484	14.0000000000
	Jul	283	11.0000000000	213	23.0000000000	487	13.0000000000
	Aug	401	13.0000000000	180	22.0000000000	558	15.0000000000
	Sep	343	11.0000000000	69	18.0000000000	394	12.0000000000
	Oct	247	9.0000000000	36	8.0000000000	275	9.0000000000
	Nov	100	2.0000000000	20	4.0000000000	116	2.0000000000
2011	Mar-Apr	312	20.0000000000	10	2.0000000000	317	16.0000000000
	May	394	19.0000000000	39	14.0000000000	420	18.0000000000
	Jun	321	15.0000000000	209	19.0000000000	524	16.0000000000
	Jul	242	10.0000000000	243	21.0000000000	474	13.0000000000
	Aug	351	15.0000000000	123	19.0000000000	444	16.0000000000
	Sep	314	11.0000000000	73	12.0000000000	366	11.0000000000
	Oct	219	7.0000000000	50	11.0000000000	261	8.0000000000
	Nov	82	2.0000000000	13	2.0000000000	93	2.0000000000
2012	Mar-Apr	276	17.0000000000	3	2.0000000000	279	14.0000000000
	May	332	15.0000000000	22	9.0000000000	348	14.0000000000
	Jun	334	16.0000000000	154	16.0000000000	479	16.0000000000
	Jul	223	10.0000000000	210	24.0000000000	422	13.0000000000
	Aug	361	17.0000000000	106	27.0000000000	444	19.0000000000
	Sep	279	10.0000000000	68	16.0000000000	336	12.0000000000
	Oct	233	13.0000000000	22	6.0000000000	251	11.0000000000
	Nov	68	1.0000000000	7	1.0000000000	75	1.0000000000
2013	Mar-Apr	256	19.0000000000	6	3.0000000000	262	16.0000000000
	May	304	20.0000000000	17	11.0000000000	317	18.0000000000
	Jun	298	16.0000000000	192	16.0000000000	482	16.0000000000
	Jul	197	9.0000000000	226	28.0000000000	413	12.0000000000
	Aug	300	15.0000000000	75	18.0000000000	361	15.0000000000
	Sep	283	12.0000000000	62	13.0000000000	331	12.0000000000
	Oct	219	8.0000000000	25	9.0000000000	236	8.0000000000
	Nov	79	2.0000000000	10	2.0000000000	87	2.0000000000
2014	Mar-Apr	286	26.0000000000	2	2.0000000000	288	22.0000000000
	May	309	20.0000000000	25	15.0000000000	324	19.0000000000
	Jun	233	11.0000000000	46	18.0000000000	269	12.0000000000
	Jul	166	7.0000000000	81	27.0000000000	241	11.0000000000
	Aug	301	16.0000000000	87	21.0000000000	369	17.0000000000
	Sep	256	12.0000000000	43	12.0000000000	286	12.0000000000
	Oct	193	7.0000000000	14	4.0000000000	200	6.0000000000
	Nov	42	1.0000000000	6	1.0000000000	48	1.0000000000

Source: ADF&G fish tickets / CFEC gross earnings.

Table H12: Total vessel days fishing halibut by area, 2010-2014.

Area	2010	2011	2012	2013	2014
Gulf of Alaska	19,774	16,159	14,818	14,633	12,820
Bering Sea & Aleutian Islands	5,680	6,397	5,110	4,339	2,880
All Alaska	25,170	22,166	19,747	18,754	15,484

**Notes:** Excludes vessels in the Annette Island commercial halibut fishery.

**Source:** ADF&G fish tickets / CFEC gross earnings.

Table H13: Crew days fishing halibut by month and area, 2010-2014.

	Year	Mar-Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Gulf of Alaska	2010	13,762	12,669	9,429	7,872	9,507	7,964	6,882	1,694
	2011	10,415	12,079	8,254	6,446	8,286	6,937	4,678	1,333
	2012	8,304	9,431	8,200	5,796	8,708	6,495	6,243	814
	2013	8,546	10,247	7,777	4,859	7,350	6,589	5,928	1,300
	2014	9,905	9,414	5,733	3,603	6,297	5,470	4,185	499
Bering Sea & Aleutian Islands	2010	966	1,043	2,845	5,759	4,979	3,034	1,604	1,013
	2011	967	2,271	4,754	6,219	4,457	2,952	2,062	637
	2012	455	1,429	3,391	5,338	4,693	2,758	1,067	212
	2013	563	1,042	3,166	5,244	2,428	2,291	1,266	224
	2014	242	1,472	1,586	3,397	2,403	1,369	653	121
All Alaska	2010	14,667	13,676	12,171	13,565	14,147	10,688	8,330	2,669
	2011	11,221	14,181	12,983	12,454	12,154	9,616	6,621	1,923
	2012	8,759	10,822	11,483	10,938	13,131	9,133	7,271	1,026
	2013	9,109	11,207	10,807	10,011	9,632	8,670	7,029	1,460
	2014	10,147	10,650	7,178	6,905	8,484	6,765	4,760	620

**Notes:** Excludes vessels in the Annette Island commercial halibut fishery.

**Source:** ADF&G fish tickets / CFEC gross earnings.

## 5. ECONOMIC PERFORMANCE IN THE NORTH PACIFIC GROUNDFISH FISHERIES: AN INDEX-BASED APPROACH TO EXAMINING ECONOMIC CHANGES

INDICES HAVE BEEN INCLUDED TO ENHANCE THIS PRELIMINARY DRAFT (SEPTEMBER) OF THE ECONOMIC STATUS REPORT. THE ANALYSIS OF TRENDS THAT IS A TYPICAL FEATURE OF THIS SECTION IS FORTHCOMING IN THE FINAL DRAFT (NOVEMBER).

### 5.1. Introduction

Fisheries markets are complex. A multitude of factors influence demand, supply, price, catch composition, product types produced and other forms of market activity. Indices are a common method used by agencies to synthesize market information in a digestible format. Indices establish a baseline that helps characterize trends in the market for values, prices and quantities of fisheries goods. Market indices have many uses. From a management perspective indices can both retrospectively characterize changes in the market that may be related to policy decisions, or allow managers to evaluate current market conditions in the context of future policy change. Indices may also be useful to market participants when making business decisions.

This section of the Economic Status of the Groundfish Fisheries off Alaska attempts to distill the numerous factors that affect the North Pacific groundfish markets into a simple set of indices that can be used to track performance. Indices of value, price and quantity are presented for each of the four primary sectors: the Bering Sea and Aleutian Island (BSAI) at-sea, the BSAI shoreside, the Gulf of Alaska (GOA) at-sea, and the GOA shoreside. For the at-sea sectors, index analysis will focus on the wholesale market; for the shoreside sectors, index analysis will consider both the wholesale and ex-vessel markets. To help understand and evaluate the indices, we plot the value share stratified by species and product type for wholesale markets, and by species and gear type for the ex-vessel markets. Value share is the proportion of total value from each of the stratified components, such as the proportion of total value that comes from pollock. Additionally, bar graphs provide detail on the division of production among species, product types and gear types. Specifically, for the wholesale market, these graphs show species by product type and product type by species, and in the ex-vessel market, they show species by gear type and gear type by species.

Aggregate indices, by their very nature, cumulate over the many species, products types, and gear types that apply to a sector. The values, prices, and quantities from individual components of these factors (e.g., individual species) may contribute to the movements of the aggregate indices in very different ways. The myriad of market influences make it difficult to disentangle the relative importance of different species or products when monitoring aggregate performance, a problem that can be approached by using a value-share decomposition to examine the influence of these different components on the aggregate index. Decomposition relates the indices for each of the components of a single factor to the aggregate through its value share.

For example, consider an aggregate price index for a sector. The aggregate price index is a function of all the prices for each of the species sold (e.g., pollock, Pacific cod, sablefish). Here, species type is the factor and the component indices of this factor are the price indices for each of the species

(e.g., pollock price index, Pacific cod price index). The importance of each individual species price index is determined by the proportion of total value in the sector for each species. By decomposing the aggregate index in this way, one can see how each of the species price indices influence the movement in the aggregate price index. Similar value-share decompositions are also constructed for product types in the wholesale market, and for gear types in the ex-vessel market.

Section 5.1.1 provides a more in-depth explanation of the indices and how to understand them. Understanding the indices and their construction facilitates accurate interpretation. The indices are presented and discussed in remaining sections ??-??. The discussion explicitly references the plots in Figures 5.2-5.13. Hereafter, “wholesale value” and “ex-vessel value” refer to the revenue from production at the first wholesale level or from sales of catch on the ex-vessel market, respectively. Walleye pollock will often be referred to simply as “pollock”; similarly, Pacific cod will often be referred to as “cod”.

### 5.1.1 Understanding an Index

Economic indices measure changes in the levels of a set of related economic variables. The set of variables is aggregated to provide a single number that is meant to summarize the cumulative state of the market. This aggregation is done in a way that achieves two objectives: first, is that the more “important” variables should be weighted more heavily in the index; second, is that the index should be comparable over time. Indices and the methods used to construct them to achieve these basic objectives have a deep theoretical foundation in both statistics and economics. An in-depth treatment of these foundations can be found in Coelli (2005), and Diewert (1993). The discussion here is presented with the intent of providing the reader with an intuitive understanding of the index that will help in both general interpretations of the indices and relating the decomposed indices to the aggregate. Details on the precise methods used for constructing indices can be found in NOAA Technical memorandum (Fissel 2014).

The basic intuition behind an economic index is the same for value indices, price indices and quantity indices. For the sake of exposition, we will consider an aggregate price index for the shoreside wholesale market in the GOA but the discussion applies equally well to the quantity and value indices as well as to the other sectors and markets. We will write the two-period price index between 2010 and 2009 as  $P_{2009}(2010)$ . This price index gives the aggregate price level in 2010 using 2009 as a reference period. If the price index in 2009 was  $P_{2008}(2009) = 1$  and the price index in 2010 was  $P_{2009}(2010) = 1.1$  then the two-period price index would indicate that when you consider all the prices together for the GOA shoreside wholesale market, there was a 10% increase in prices over the year. There are many species and products that GOA shoreside processors sell onto the first wholesale market, including headed-and-gutted sablefish and Pacific cod fillets, which each have their own price. The index  $P_{2009}(2010)$  is formed by taking a weighted sum of the relative prices between 2010 and 2009 over all of these goods:  $P_{2009}(2010) = \sum_{i=1}^N \frac{p^i(2010)}{p^i(2009)} * \omega_{2009}^i(2010)$ . Here,  $p^i(2010)$  is the price of good  $i$  (e.g., Pacific cod fillets) in 2010 and  $\omega_{2009}^i(2010)$  is the weight representing the “importance” of good  $i$  between 2009 and 2010 in the GOA shoreside wholesale market. The economic measure that is used to determine this importance is the proportion of total value that good makes up in the market, the value share.

Using the same basic weighting idea we can relate the subindices (e.g., species price indices) to their individual components for either *individual species* or for *aggregations* across species. For example, a

Pacific cod index,  $P_{2009}^{cod}(2010)$ , would be a weighted sum of all the cod-based product prices, whereas the aggregate index,  $P_{2009}(2010)$ , would be a weighted sum over all the individual species indices. Specifically,  $P_{2009}(2010) = \sum_{s=1}^S P_{2009}^S(2010) * w_{2009}^S(2010)$ , where each  $P_{2009}^S(2010)$  is the species index of species “ $s$ ” for species  $s \in \{\text{pollock, cod, yellowfin sole, } \dots\}$  and  $w_{2009}^S(2010)$  can be thought of as an “importance” weight determined by the value share for each species  $s$  (the proportion of total value for the species). This decomposition of the aggregate index into the species indices is referred to here as the value share decomposition. This decomposition can be done for other cross-sections of the market as well; for example, the aggregate price index can be expressed as a weighted sum of the individual product price indices:  $P_{2009}(2010) = \sum_{k=1}^K P_{2009}^k(2010) * w_{2009}^k(2010)$ , where  $k$  runs over product types,  $k \in \{\text{fillet, head \& gut, surimi, } \dots\}$  and  $w_{2009}^k(2010)$  is the value share of product  $k$ . Value and quantity indices,  $V_{t-1}^i(t)$  and  $Q_{t-1}^i(t)$ , are constructed analogously. These examples show how an aggregate index can be decomposed into its constituent parts. Plotting the factor indices together with the aggregate index provides a perspective on the common movements between associated objects in a market<sup>1</sup>.

Indices may be compared across multiple periods by chaining consecutive two-period estimates together to create a chain index. The consumer price index and other such indices often mentioned in the news are chain indices. Chain indices specify a base period in which the index is equal to 100. For the economic indices presented here, we use 2010 as the base year. Next year the base will be changed to 2010 so that recent periods are closer to the base year. Taking our GOA shoreside price index as an example, the 2008 chained price index is given by  $I_{2006}^P(2008) = 100 * P_{2006}(2007) * P_{2007}(2008)$ . The 2009 chained price index is obtained by multiplying the 2008 index by the two-period price increment between 2008 and 2009,  $I_{2006}^P(2009) = 100 * I_{2006}(2008) * P_{2008}(2009)$ , thus chaining the index forward. To provide a concrete numerical example, suppose 2006 is our base year in which the index is equal to 100 and assume there was a 50% increase in aggregate prices in 2007, so that  $P_{2006}(2007) = 1.5$ . The chained price index in 2007 would be  $I_{2006}^P(2007) = 100 * I_{2006}(2006) * P_{2006}(2007) = 150$ . Now suppose there was a 50% decrease in aggregate prices between 2007 and 2008 ( $P_{2007}(2008) = 0.5$ ). The 2008 chained price index would now be  $I_{2006}^P(2008) = 100 * I_{2006}(2007) * P_{2007}(2008) = 75$ . Thus, the value of the index in 2008 makes sense with respect to both 2006 and 2007. That is, 2008 prices are 75% of their 2006 level and half their 2007 level. Notice also that the weights in the chain index  $w_{t-1}^k(t)$  are adapting to potential shifts in the value share that may be occurring due to swings in output or production. This is an important feature of the index in fisheries where output can change significantly based on changes in the stock and the TAC.<sup>2</sup>

The primary tools we will use to analyze market performance are Figures 5.2-5.13. The index figures in Figures 5.2-5.13 are designed to help the reader visualize changes in the indices and relate the changes to shifts in aggregate value, prices, and quantities. All indices use 2006 as the base year

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<sup>1</sup>The formulation presented here is intended to give an intuitive understanding of indices. The Fisher index method was used in the actual creation of the indices. The Fisher index is the geometric mean of Laspeyres’ index, which uses weights that favor the reference period, and Paasche’s index, which uses weights that favor the current period. The Fisher index provides a more central index measure and enjoys some desirable theoretic properties that lead it to be preferred over other indices. The Fisher index cannot strictly be written as a linear combination of relative price ratios. However, the Fisher index is bounded by two linear objects that in practice don’t differ significantly and the linear perspective is correct to a first-order approximation. Hence, there is little loss from using the linear intuition given by the other indices when thinking of the Fisher index. Further details on the Fisher index can be found in the forthcoming NOAA Technical Memorandum (Fissel 2013) as well as Coelli (2005), Diewert (1993)

<sup>2</sup>The alternative to a chain index is a fixed-base index that references each year to a single base year without considering the changes in the intervening periods. When output/production changes significantly over short periods, (e.g., changing TAC) the fixed base index can be quite sensitive to the base year chosen.

for the index. All calculations and statistics are made using nominal U.S. dollars.<sup>3</sup> Aggregate indices are located in the upper-left panel and the value share decomposition of the aggregate index is below in the lower-left panels of the figures. Changes in the indices have been color coded to indicate the relevance in determining aggregate index movements. Following the notation above, the relevance of a change in the price index in year  $t$  is calculated by  $(year - on - year\%change) * (share\ weight) = (P_{t-1}^i - 1) * \tilde{w}^i(t)$  where  $\tilde{w}^i(t) = \frac{p_t^i * q_t^i}{\sum_i p_t^i * q_t^i}$  is the year  $t$  value share. When the value  $(year - on - year\%change) * (share\ weight)$  is roughly zero, indicating little to no change or influence on the aggregate index, it is colored blue. When this value is less than -0.1, the index is colored red to indicate that it has had a significant negative impact on the aggregate index. When this value is greater than 0.1, the index is colored green, indicating a significant positive impact on the aggregate index. Shades in between these colors indicate intermediate impacts. Changes in the value and quantity indices are similarly calculated by replacing  $P_{t-1}^i(t)$  with the value index and quantity index increments:  $V_{t-1}^i(t)$ , and  $Q_{t-1}^i(t)$ . The indices can take on these “significant colors” if the percentage change is large and/or the value share is large. The value share plot in the upper-right corner of each figure helps to discern the difference. For each sector and market, two decompositions are presented. The wholesale market is decomposed by species and product type, and the ex-vessel market is decomposed by species and gear type. To help relate the different decompositions, bar graphs in the lower-right panel of each figure show the composition of one factor (e.g., product type) for each relevant category of the other factors (e.g., species) as measured by production. Furthermore, the height of the bars shows the annual output in that market. Only the components of a factor with a value share greater than 1% have been plotted, although all prices and quantities were used in the construction of the aggregate index.

To properly interpret the indices, the reader must realize that the indices are merely descriptive and characterize the state of the market relative to other periods, and display the co-movement of different species, product types, or gear types both individually and in aggregate. The indices have no inherent causal interpretation. For example, it would be wrong to assert from these indices that a change in surimi prices “caused” a change in pollock price. Nor could we say the converse. We can say that they are connected, as surimi is a significant portion of the value from pollock in some regions, but causality is beyond the scope of indices. Carefully designed regression analysis is better suited for addressing such causality questions.

## 5.2. Economic Indices of the Groundfish Fisheries off Alaska

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<sup>3</sup>U.S. nominal dollars are used so price indices capture unadjusted changes in prices throughout time, allowing them to be used as deflator indices. For readers comparing these indices to other figures in the SAFE denominated in inflation adjusted terms, this adjustment should be kept in mind.



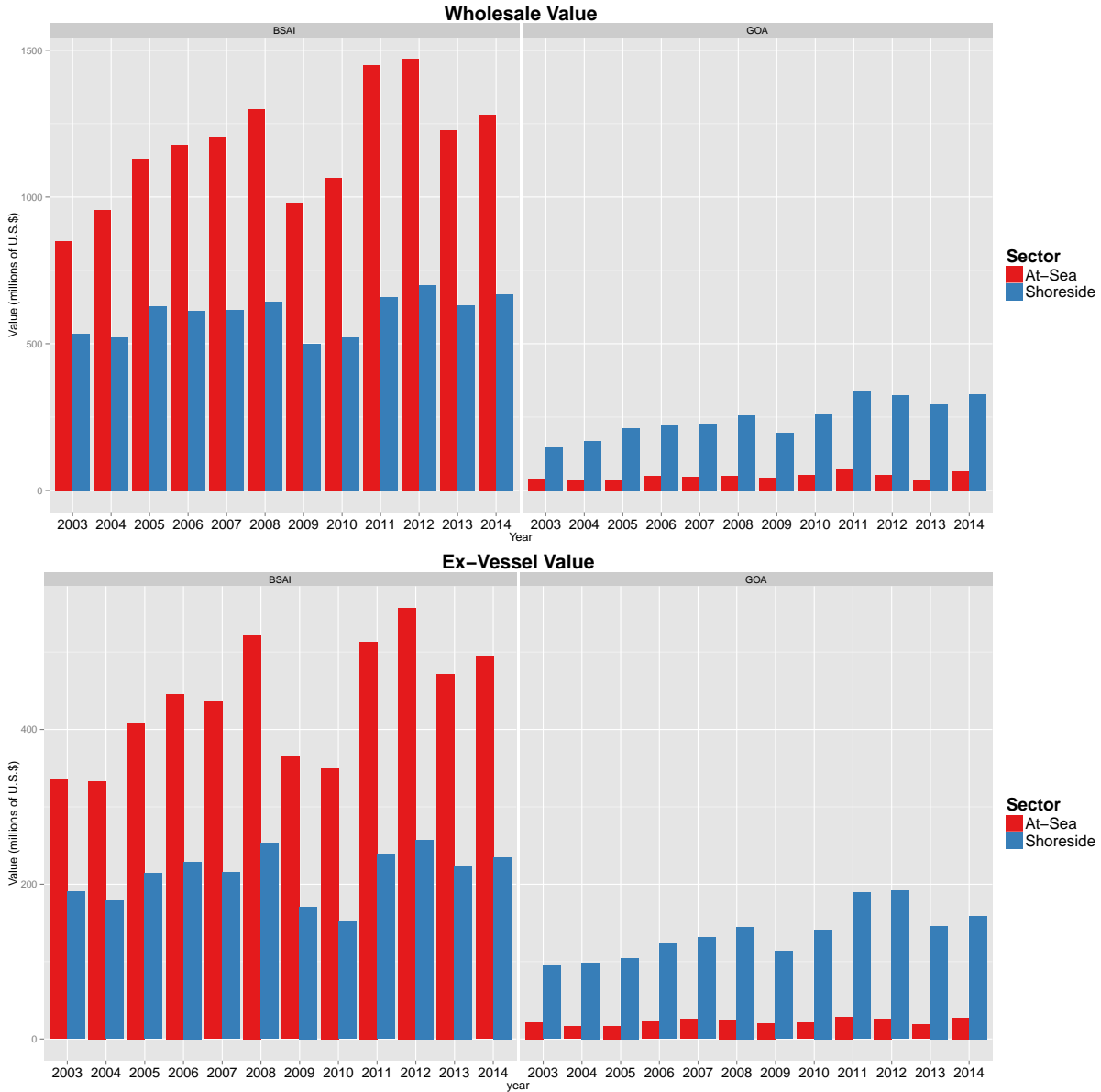


Figure 5.1: Wholesale and ex-vessel value by region and sector 2005-2014.

**Source:** NMFS Alaska Region’s Catch-accounting system (CAS) and Weekly Production Report (WPR) estimates; Alaska Department of Fish and Game (ADF&G) Commercial Operator’s Annual Report (COAR), National Marine Fisheries Service. P.O. Box 15700, Seattle, WA 98115-0070.

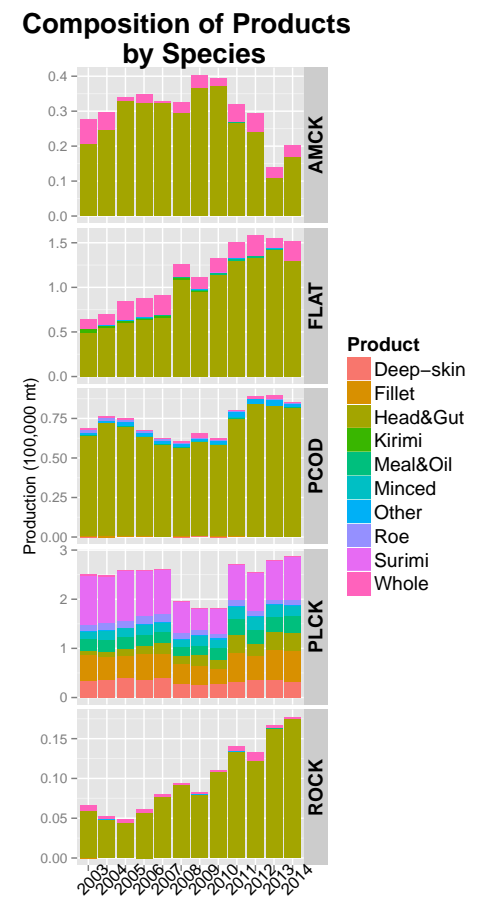
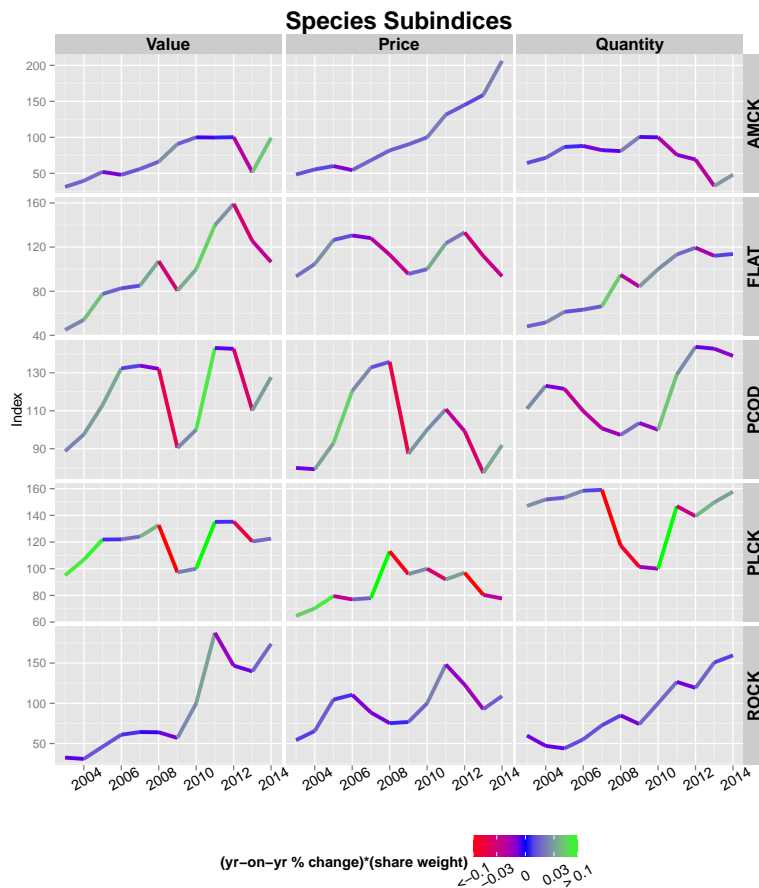
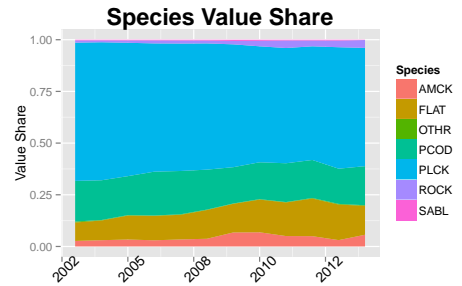
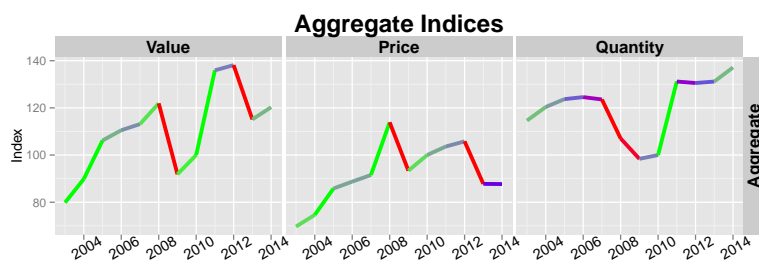


Figure 5.2: BSAI at-sea wholesale market: species decomposition 2005-2014 (Index 2010 = 100). **Notes:** Index values for 2009-2014, notes and source information for the indices are on Table 5.1. Index coloring indicates its influence on aggregate index movements, see Section 5.1.1 for details.

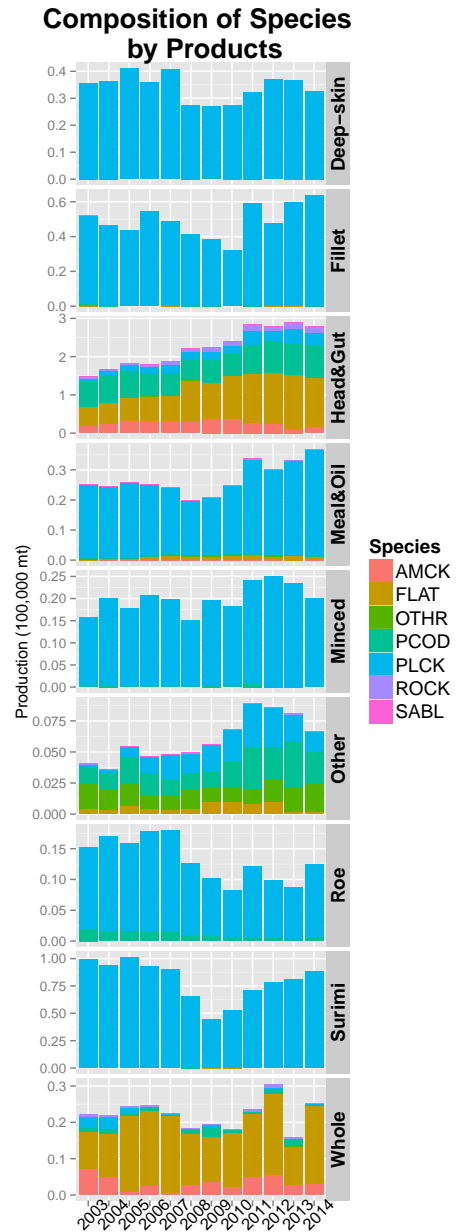
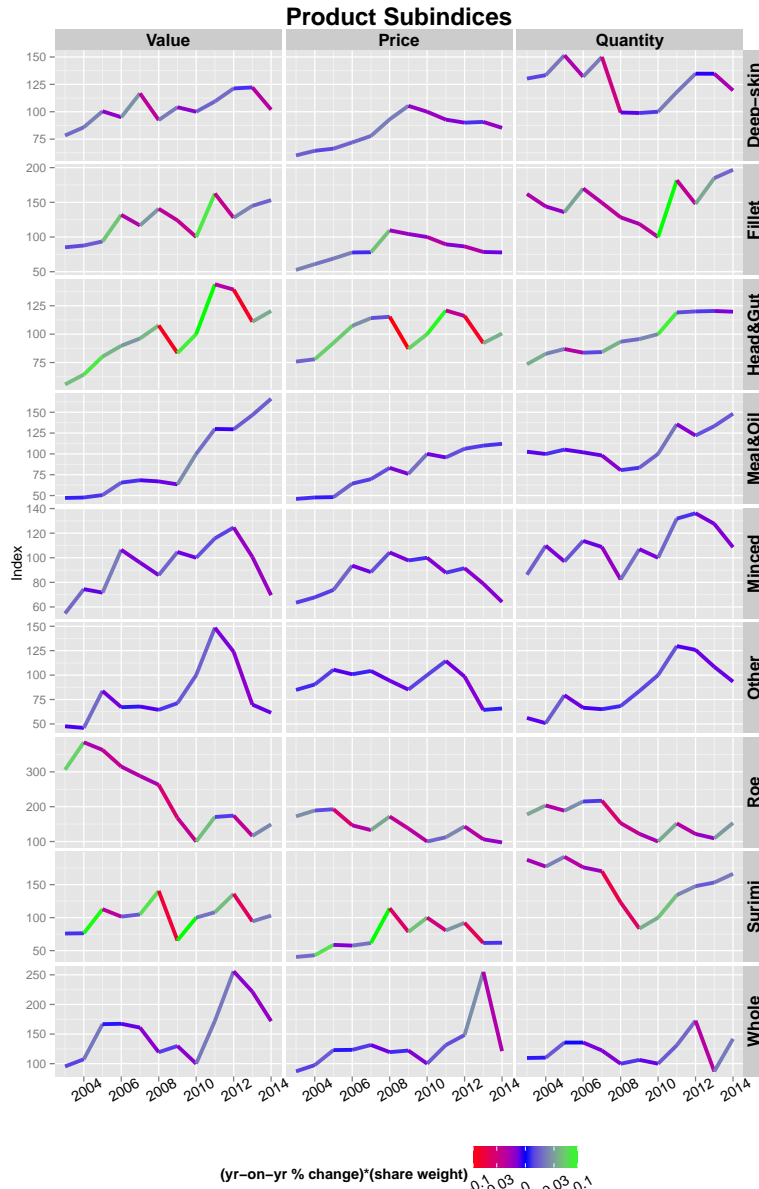
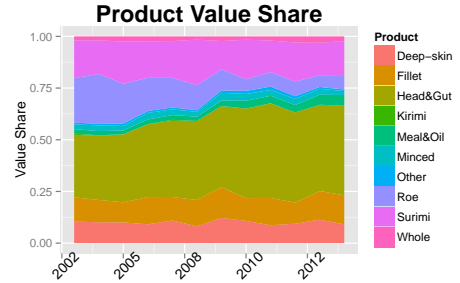
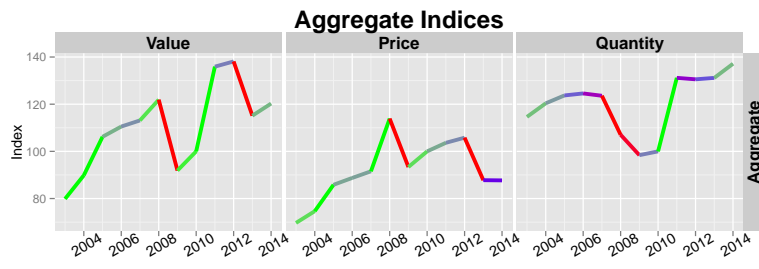


Figure 5.3: BSAI at-sea wholesale market: product decomposition 2005-2014 (Index 2010 = 100). **Notes:** Index values for 2009-2014, notes and source information for the indices are on Table 5.2. Index coloring indicates its influence on aggregate index movements, see Section 5.1.1 for details.

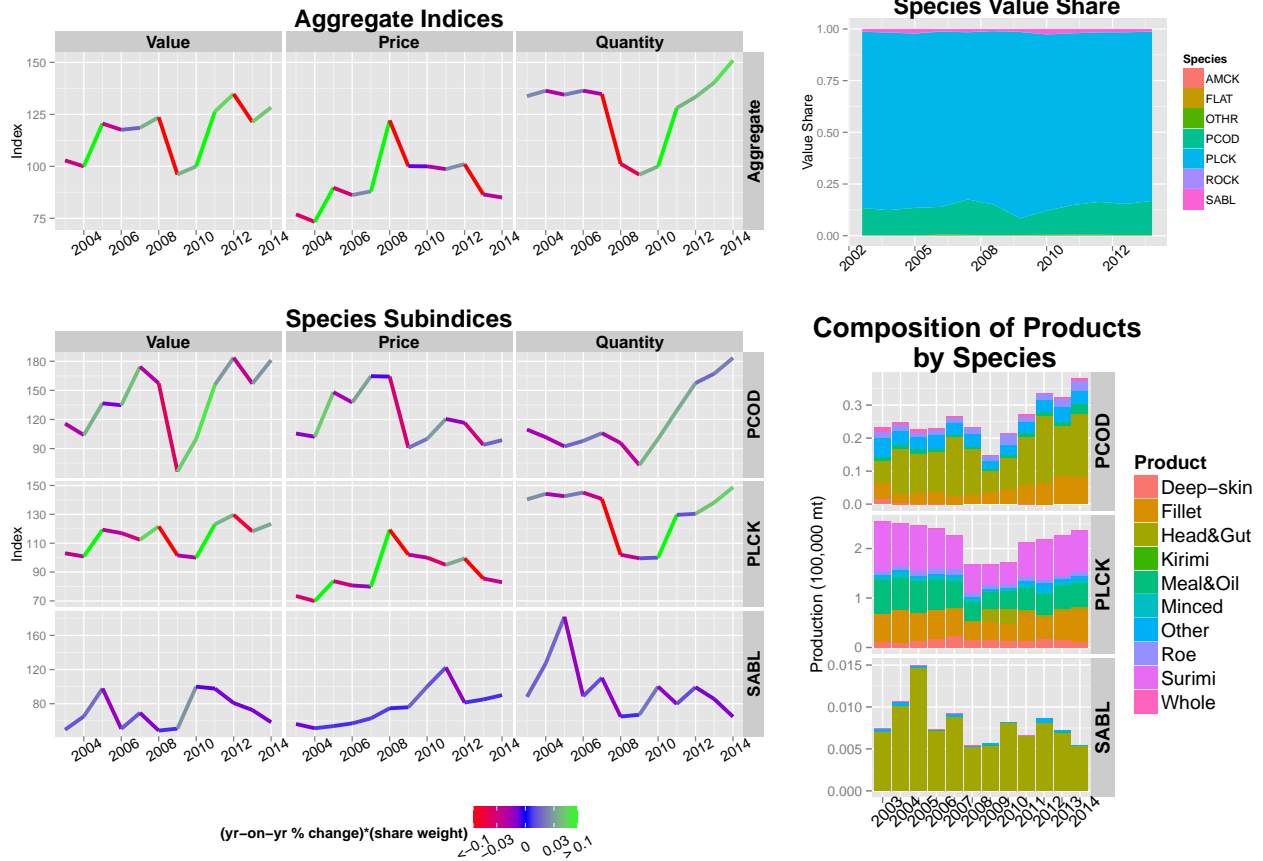


Figure 5.4: BSAI shoreside wholesale market: species decomposition 2005-2014 (Index 2010 = 100). **Notes:** Index values for 2009-2014, notes and source information for the indices are on Table 5.3. Index coloring indicates its influence on aggregate index movements, see Section 5.1.1 for details.

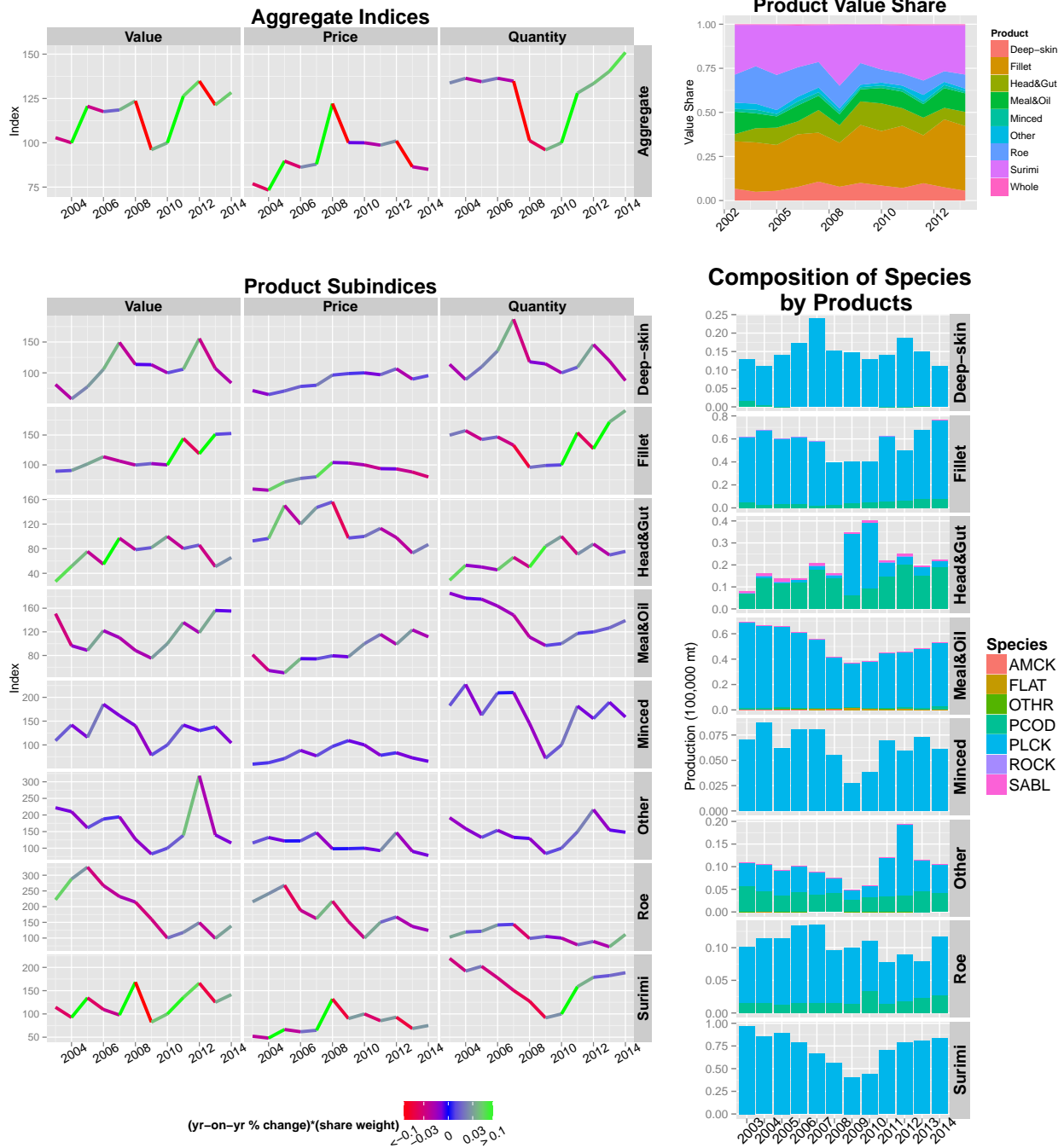


Figure 5.5: BSAI shoreside wholesale market: product decomposition 2005-2014 (Index 2010 = 100). **Notes:** Index values for 2009-2014, notes and source information for the indices are on Table 5.4. Index coloring indicates its influence on aggregate index movements, see Section 5.1.1 for details.

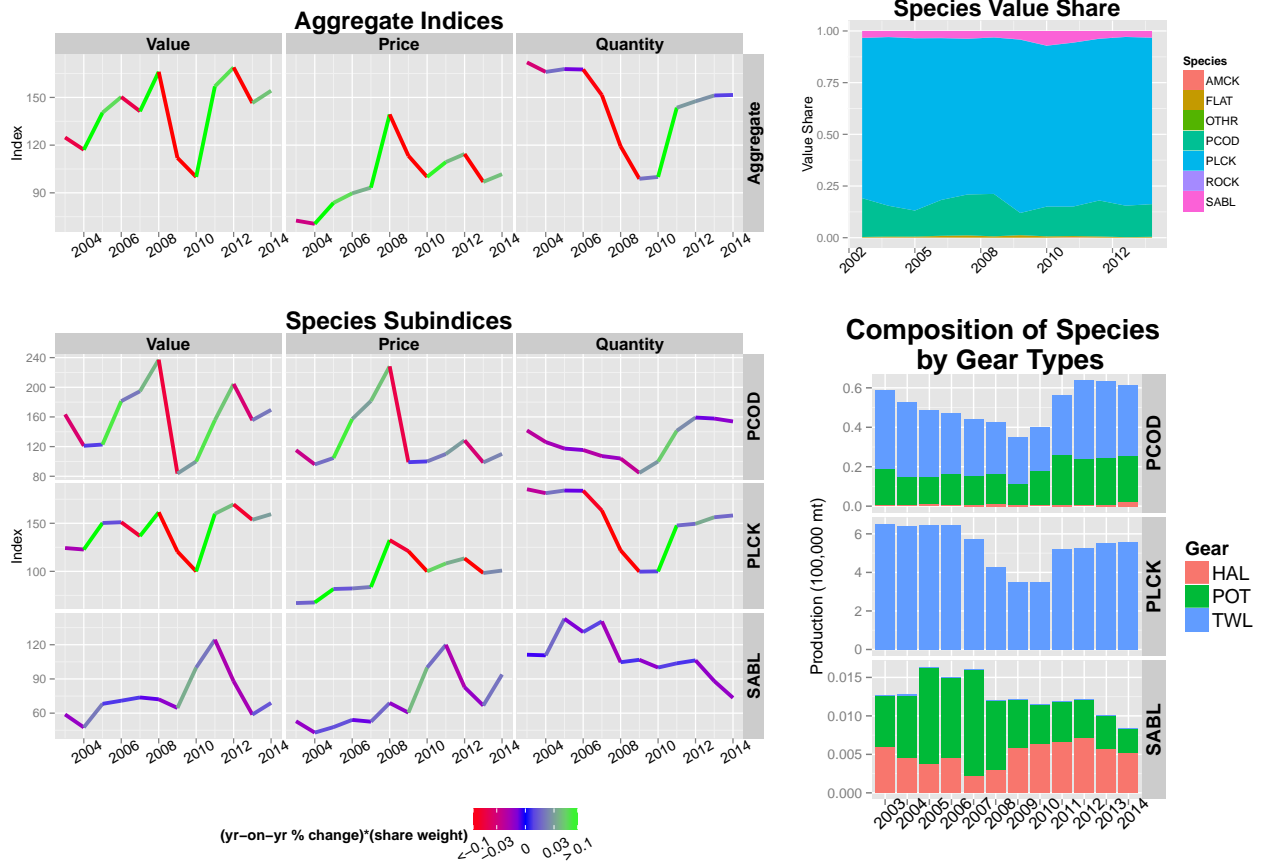


Figure 5.6: BSAI shoreside ex-vessel market: species decomposition 2005-2014 (Index 2010 = 100). **Notes:** Index values for 2009-2014, notes and source information for the indices are on Table 5.5. Index coloring indicates its influence on aggregate index movements, see Section 5.1.1 for details.

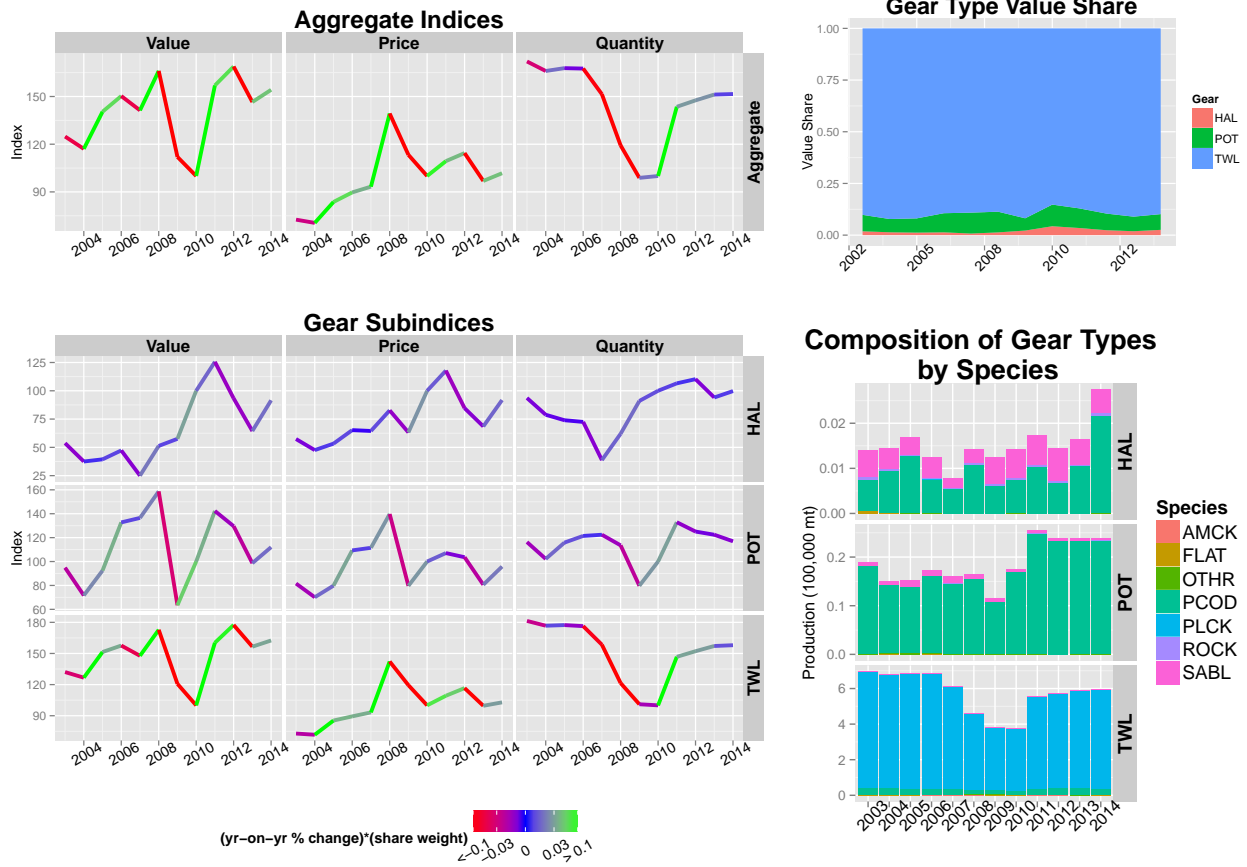


Figure 5.7: BSAI shoreside ex-vessel market: gear decomposition 2005-2014.  
**Notes:** Index values for 2009-2014, notes and source information for the indices are on Table 5.6. Index coloring indicates its influence on aggregate index movements, see Section 5.1.1 for details.

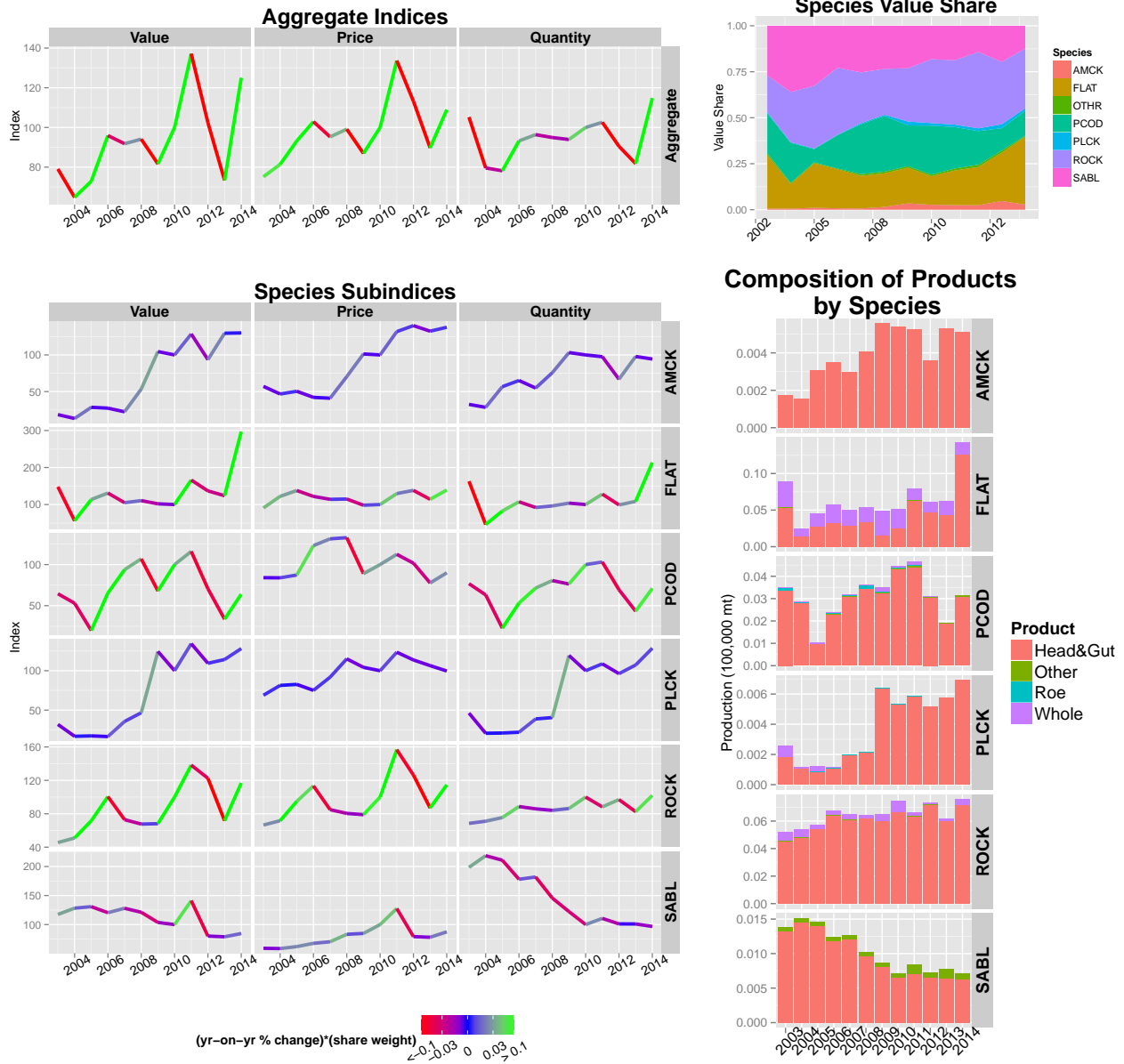


Figure 5.8: GOA at-sea wholesale market: species decomposition 2005-2014.  
**Notes:** Index values for 2009-2014, notes and source information for the indices are on Table 5.7. Index coloring indicates its influence on aggregate index movements, see Section 5.1.1 for details.



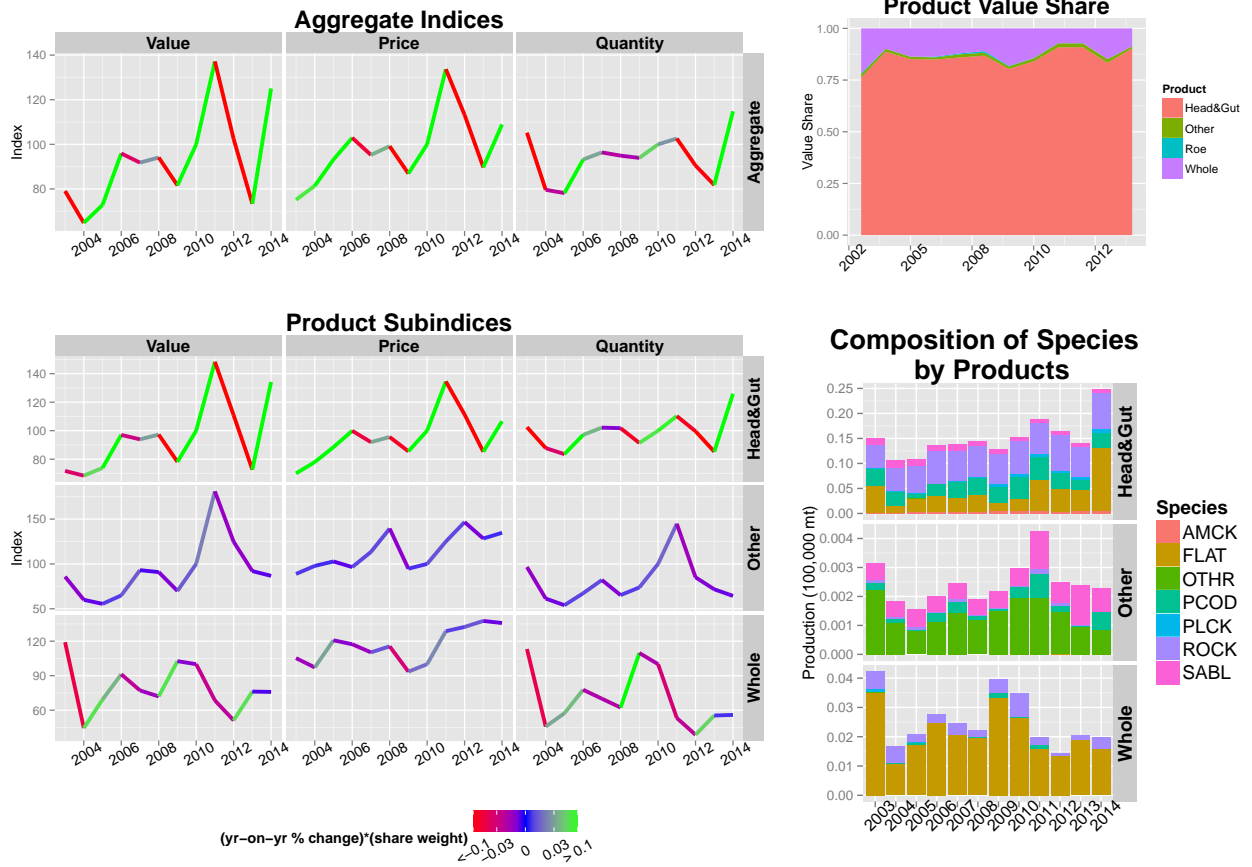


Figure 5.9: GOA at-sea wholesale market: product decomposition 2005-2014.  
**Notes:** Index values for 2009-2014, notes and source information for the indices are on Table 5.8. Index coloring indicates its influence on aggregate index movements, see Section 5.1.1 for details.

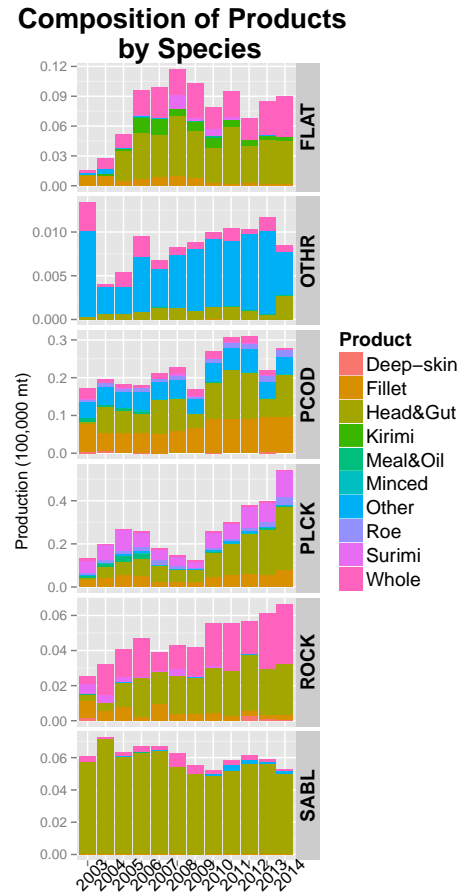
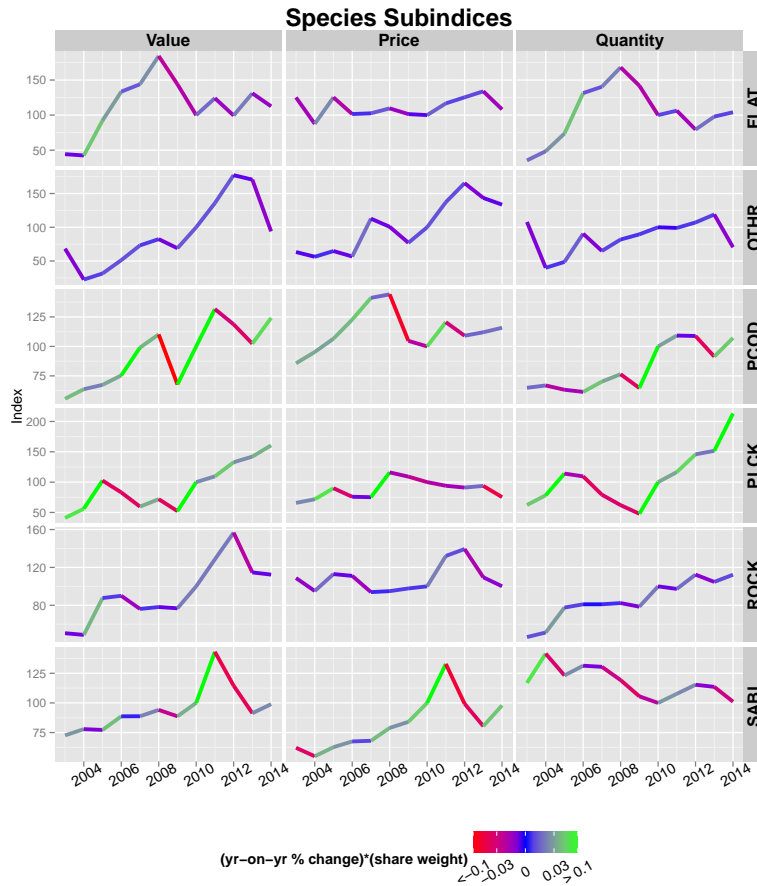
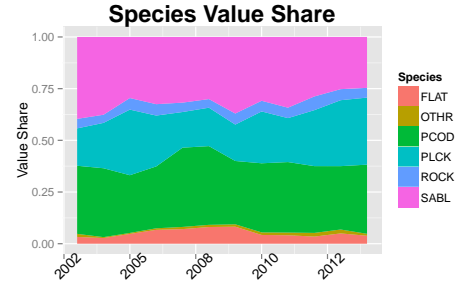
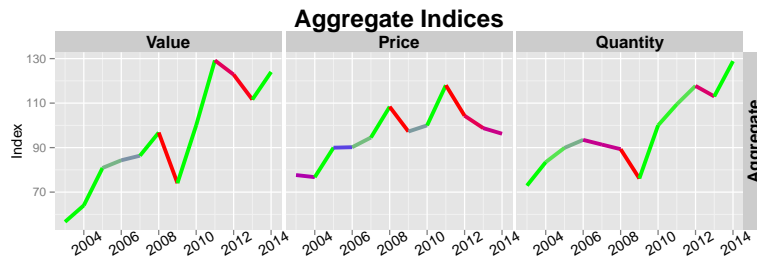


Figure 5.10: GOA shoreside wholesale market: species decomposition 2005-2014.  
**Notes:** Index values for 2009-2014, notes and source information for the indices are on Table 5.9. Index coloring indicates its influence on aggregate index movements, see Section 5.1.1 for details.

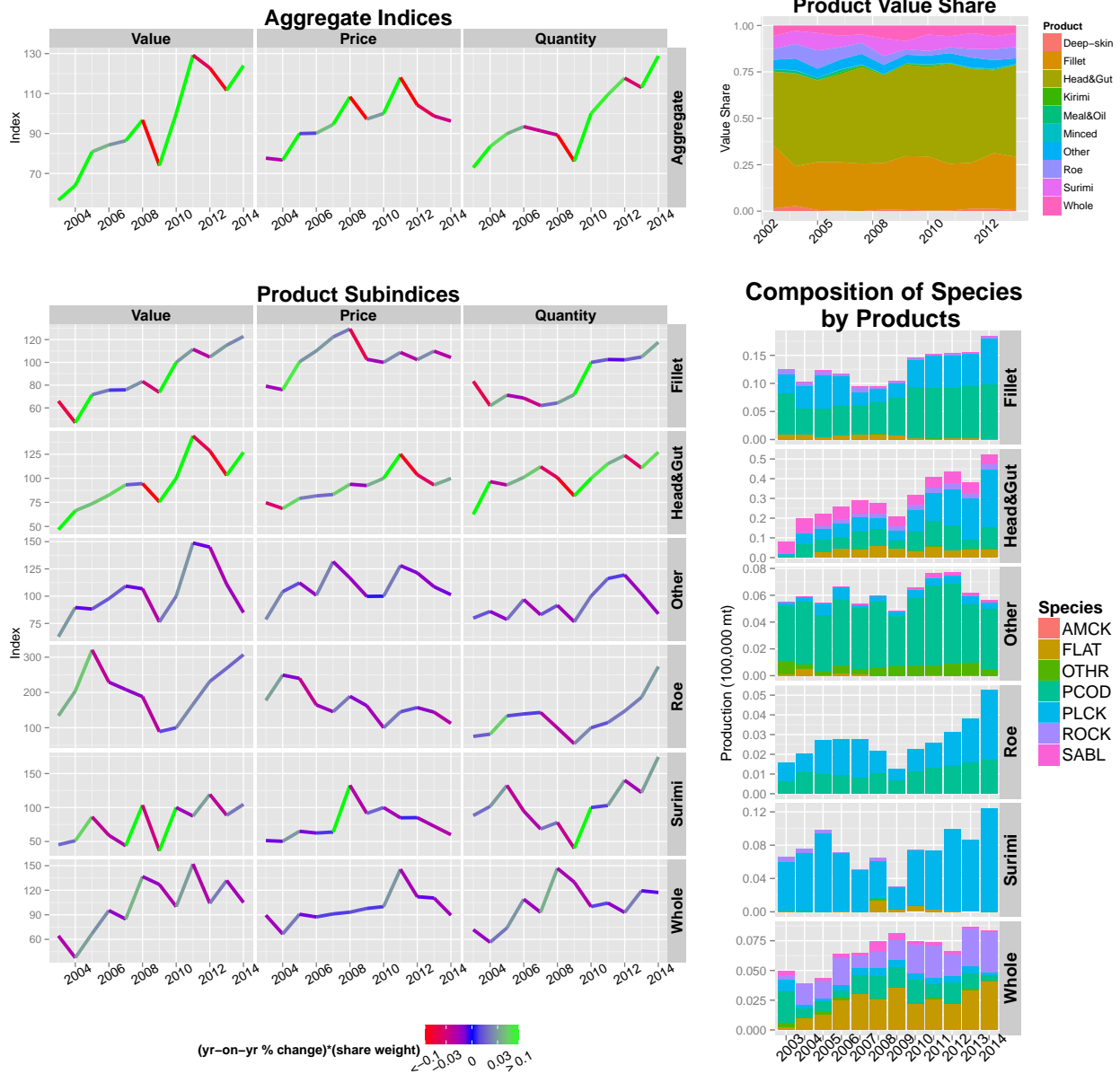


Figure 5.11: GOA shoreside wholesale market: product decomposition 2005-2014. **Notes:** Index values for 2009-2014, notes and source information for the indices are on Table 5.10. Index coloring indicates its influence on aggregate index movements, see Section 5.1.1 for details.

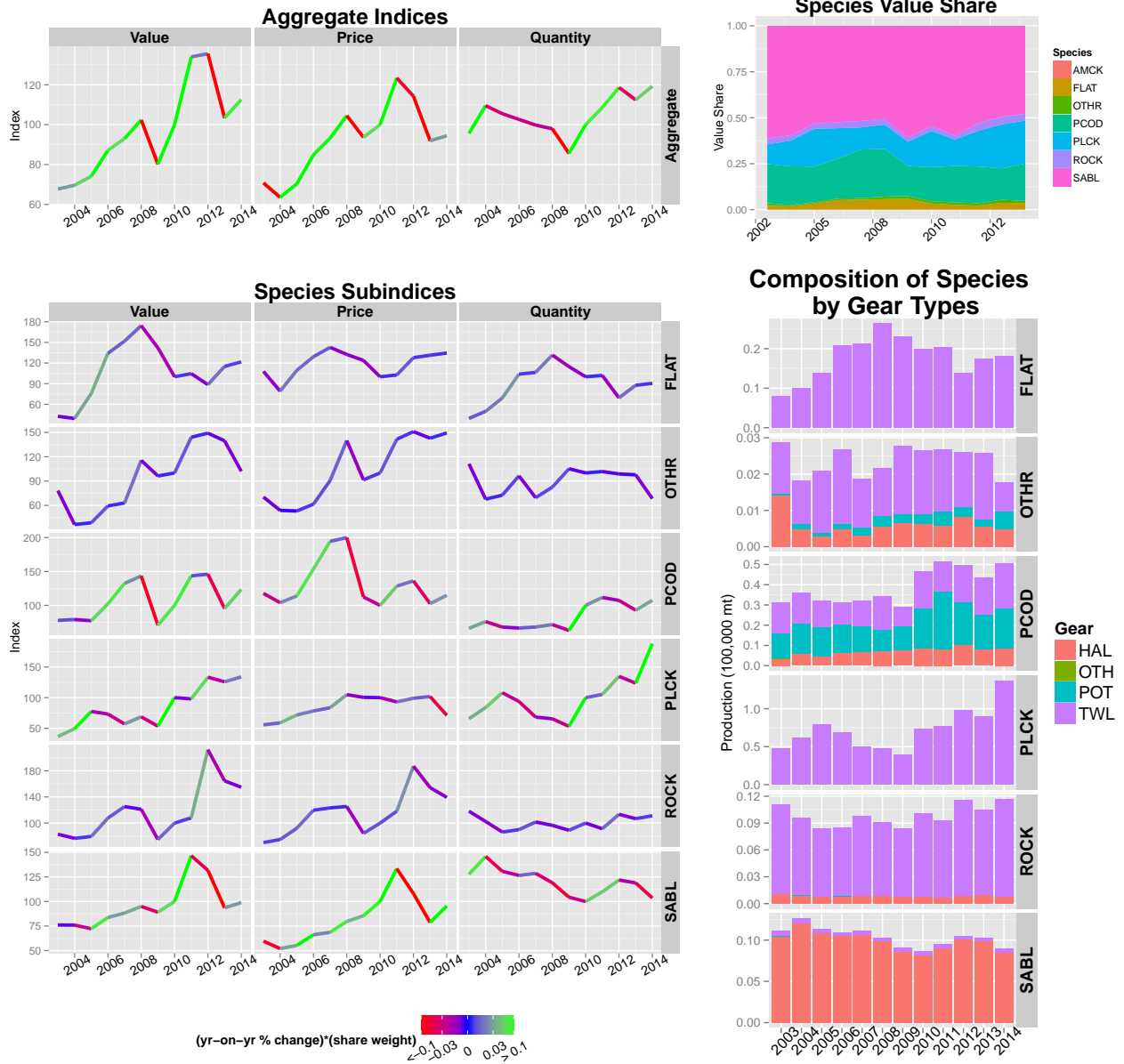


Figure 5.12: GOA shoreside ex-vessel market: species decomposition 2005-2014.  
**Notes:** Index values for 2009-2014, notes and source information for the indices are on Table 5.11. Index coloring indicates its influence on aggregate index movements, see Section 5.1.1 for details.

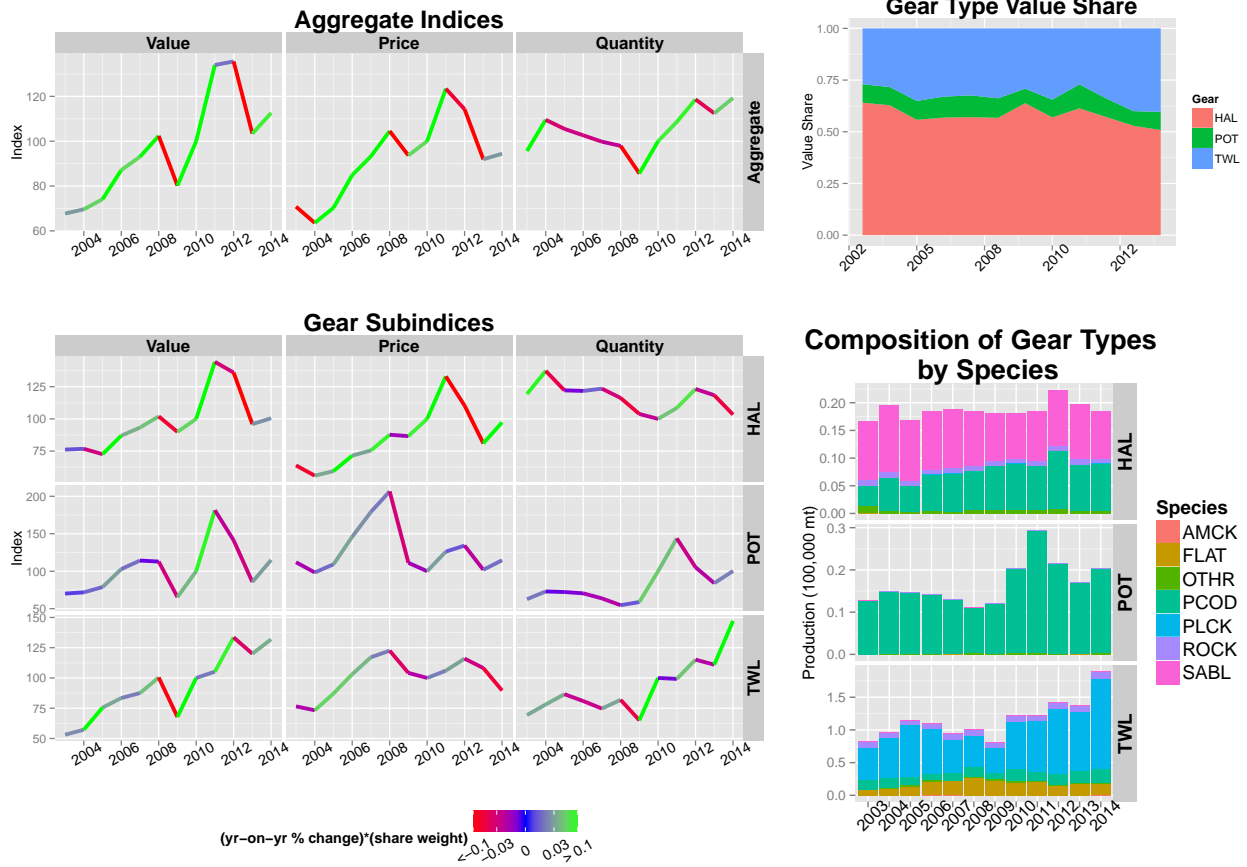


Figure 5.13: GOA shoreside ex-vessel market: gear decomposition 2005-2014 (Index 2010 = 100). **Notes:** Index values for 2009-2014, notes and source information for the indices are on Table 5.12. Index coloring indicates its influence on aggregate index movements, see Section 5.1.1 for details.

Table 5.1: Species Indices and Value Share for the BSAI At-Sea First-Wholesale Market 2009 - 2014

Species	Index Type	2009	2010	2011	2012	2013	2014
Aggregate	Value	91.87	100.00	135.93	138.12	115.13	120.27
Aggregate	Price	93.37	100.00	103.63	105.80	87.78	87.69
Aggregate	Quantity	98.39	100.00	131.17	130.55	131.15	137.15
AMCK	Value	90.69	100.00	99.71	100.26	51.57	99.26
AMCK	Price	90.21	100.00	131.53	145.02	158.84	206.19
AMCK	Quantity	100.52	100.00	75.81	69.13	32.47	48.14
AMCK	Value Share	0.07	0.07	0.05	0.05	0.03	0.06
FLAT	Value	80.56	100.00	139.90	159.16	125.51	106.48
FLAT	Price	95.65	100.00	123.48	133.26	111.94	93.61
FLAT	Quantity	84.22	100.00	113.29	119.44	112.13	113.75
FLAT	Value Share	0.14	0.16	0.16	0.18	0.17	0.14
PCOD	Value	90.43	100.00	143.09	142.65	110.25	127.71
PCOD	Price	87.32	100.00	110.82	99.29	77.25	91.93
PCOD	Quantity	103.56	100.00	129.12	143.68	142.72	138.92
PCOD	Value Share	0.18	0.18	0.19	0.18	0.17	0.19
PLCK	Value	97.32	100.00	135.09	135.24	120.47	122.54
PLCK	Price	95.96	100.00	91.97	97.02	80.44	77.70
PLCK	Quantity	101.42	100.00	146.88	139.39	149.77	157.71
PLCK	Value Share	0.59	0.56	0.56	0.55	0.59	0.57
ROCK	Value	56.91	100.00	187.55	146.81	139.70	173.88
ROCK	Price	76.78	100.00	148.16	123.14	92.67	108.97
ROCK	Quantity	74.13	100.00	126.58	119.22	150.76	159.56
ROCK	Value Share	0.02	0.03	0.04	0.03	0.03	0.04

**Notes:** Species with a value share less than 1% were not included in this table. All groundfish species were used to calculate aggregate indices and value share. The Fisher index method was used to construct the indices. Further details can be found in the text or by contacting Ben.Fissel@NOAA.gov.

**Source:** NMFS Alaska Region's WPR; ADF&G COAR, National Marine Fisheries Service. P.O. Box 15700, Seattle, WA 98115-0070

Table 5.2: Product Indices and Value Share for the BSAI At-Sea First-Wholesale Market 2009 - 2014

Product	Index Type	2009	2010	2011	2012	2013	2014
Aggregate	Value	91.87	100.00	135.93	138.12	115.13	120.27
Aggregate	Price	93.37	100.00	103.63	105.80	87.78	87.69
Aggregate	Quantity	98.39	100.00	131.17	130.55	131.15	137.15
Deep-skin	Value	104.12	100.00	109.41	121.30	122.19	101.93
Deep-skin	Price	105.36	100.00	92.77	90.02	90.71	85.28
Deep-skin	Quantity	98.82	100.00	117.94	134.75	134.70	119.52
Deep-skin	Value Share	0.12	0.11	0.09	0.09	0.11	0.09
Fillet	Value	123.94	100.00	162.67	127.75	144.98	153.13
Fillet	Price	104.31	100.00	89.43	86.46	78.43	77.77
Fillet	Quantity	118.81	100.00	181.89	147.75	184.85	196.90
Fillet	Value Share	0.15	0.11	0.13	0.10	0.14	0.14
Head&Gut	Value	83.35	100.00	143.90	139.23	110.94	120.37
Head&Gut	Price	87.14	100.00	120.86	116.02	92.15	100.52
Head&Gut	Quantity	95.65	100.00	119.06	120.01	120.39	119.74
Head&Gut	Value Share	0.39	0.43	0.46	0.44	0.42	0.43
Meal&Oil	Value	63.40	100.00	129.95	129.57	146.60	166.17
Meal&Oil	Price	76.02	100.00	95.77	106.15	109.95	112.08
Meal&Oil	Quantity	83.41	100.00	135.69	122.06	133.34	148.27
Meal&Oil	Value Share	0.03	0.04	0.04	0.04	0.05	0.05
Minced	Value	104.66	100.00	115.79	124.59	100.68	69.60
Minced	Price	97.82	100.00	87.85	91.50	78.90	64.09
Minced	Quantity	107.00	100.00	131.81	136.17	127.60	108.60
Minced	Value Share	0.04	0.03	0.03	0.03	0.03	0.02
Other	Value	71.23	100.00	148.44	123.91	69.81	61.43
Other	Price	85.16	100.00	114.48	98.47	64.36	65.82
Other	Quantity	83.64	100.00	129.67	125.83	108.47	93.34
Other	Value Share	0.01	0.01	0.02	0.01	0.01	0.01
Roe	Value	167.62	100.00	170.51	174.38	116.13	149.21
Roe	Price	137.32	100.00	112.23	143.28	106.42	97.40
Roe	Quantity	122.06	100.00	151.92	121.70	109.13	153.19
Roe	Value Share	0.10	0.06	0.07	0.07	0.06	0.07
Surimi	Value	65.45	100.00	108.08	135.90	94.37	103.06
Surimi	Price	78.45	100.00	80.57	92.04	61.61	61.95
Surimi	Quantity	83.42	100.00	134.14	147.65	153.18	166.34
Surimi	Value Share	0.14	0.19	0.15	0.19	0.16	0.16
Whole	Value	129.87	100.00	172.26	256.01	221.57	171.89
Whole	Price	122.15	100.00	131.46	148.40	255.02	121.22
Whole	Quantity	106.32	100.00	131.04	172.51	86.88	141.81
Whole	Value Share	0.02	0.02	0.02	0.03	0.03	0.02

**Notes:** Products types 'Minced', 'Other' and those with a value share less than 1% were not included in this table. All product types were used to construct aggregate indices and value share. The Fisher index method was used to construct the indices. Further details can be found in the text or by contacting Ben.Fissel@NOAA.gov.

**Source:** NMFS Alaska Region's WPR; ADF&G COAR, National Marine Fisheries Service. P.O. Box 15700, Seattle, WA 98115-0070

Table 5.3: Species Indices and Value Share for the BSAI Shoreside First-Wholesale Market 2009 - 2014

Species	Index Type	2009	2010	2011	2012	2013	2014
Aggregate	Value	96.08	100.00	126.35	134.80	121.36	128.34
Aggregate	Price	100.10	100.00	98.68	101.06	86.49	85.01
Aggregate	Quantity	95.99	100.00	128.04	133.40	140.32	150.97
PCOD	Value	66.38	100.00	155.79	183.68	156.99	181.06
PCOD	Price	90.88	100.00	120.56	116.58	93.87	98.68
PCOD	Quantity	73.05	100.00	129.22	157.55	167.25	183.48
PCOD	Value Share	0.08	0.12	0.14	0.16	0.15	0.16
PLCK	Value	101.56	100.00	123.11	129.65	118.19	123.36
PLCK	Price	102.06	100.00	94.98	99.46	85.53	82.94
PLCK	Quantity	99.51	100.00	129.61	130.35	138.18	148.75
PLCK	Value Share	0.90	0.85	0.83	0.82	0.83	0.82
SABL	Value	50.85	100.00	97.68	80.84	72.62	58.33
SABL	Price	75.83	100.00	122.49	81.34	84.98	90.01
SABL	Quantity	67.07	100.00	79.75	99.38	85.45	64.81
SABL	Value Share	0.01	0.03	0.02	0.02	0.02	0.01

**Notes:** Species with a value share less than 1% were not included in this table. All groundfish species were used to calculate aggregate indices and value share. The Fisher index method was used to construct the indices. Further details can be found in the text or by contacting Ben.Fissel@NOAA.gov.

**Source:** NMFS Alaska Region's WPR; ADF&G COAR, National Marine Fisheries Service. P.O. Box 15700, Seattle, WA 98115-0070



Table 5.4: Product Indices and Value Share for the BSAI Shoreside First-Wholesale Market 2009 - 2014

Product	Index Type	2009	2010	2011	2012	2013	2014
Aggregate	Value	96.08	100.00	126.35	134.80	121.36	128.34
Aggregate	Price	100.10	100.00	98.68	101.06	86.49	85.01
Aggregate	Quantity	95.99	100.00	128.04	133.40	140.32	150.97
Deep-skin	Value	113.19	100.00	105.90	155.61	107.23	83.61
Deep-skin	Price	98.85	100.00	96.96	106.64	89.83	95.54
Deep-skin	Quantity	114.51	100.00	109.22	145.92	119.38	87.52
Deep-skin	Value Share	0.10	0.09	0.07	0.10	0.08	0.06
Fillet	Value	102.21	100.00	144.25	118.64	151.18	152.50
Fillet	Price	103.23	100.00	93.73	93.29	88.08	79.91
Fillet	Quantity	99.01	100.00	153.90	127.18	171.64	190.83
Fillet	Value Share	0.33	0.31	0.35	0.27	0.38	0.37
Head&Gut	Value	81.71	100.00	80.27	85.95	50.86	65.65
Head&Gut	Price	97.34	100.00	113.05	98.09	72.94	86.82
Head&Gut	Quantity	83.93	100.00	71.00	87.63	69.72	75.61
Head&Gut	Value Share	0.13	0.16	0.10	0.10	0.07	0.08
Meal&Oil	Value	75.33	100.00	135.84	118.63	156.30	155.23
Meal&Oil	Price	77.78	100.00	115.75	98.93	123.37	111.62
Meal&Oil	Quantity	96.85	100.00	117.36	119.92	126.70	139.07
Meal&Oil	Value Share	0.07	0.09	0.09	0.08	0.11	0.11
Minced	Value	78.63	100.00	141.93	129.85	138.13	104.10
Minced	Price	109.17	100.00	78.14	83.56	72.82	65.58
Minced	Quantity	72.03	100.00	181.64	155.39	189.68	158.73
Minced	Value Share	0.01	0.01	0.02	0.01	0.02	0.01
Other	Value	82.49	100.00	138.77	317.96	139.99	115.67
Other	Price	98.65	100.00	92.83	147.08	90.41	78.13
Other	Quantity	83.62	100.00	149.49	216.18	154.84	148.04
Other	Value Share	0.01	0.02	0.02	0.04	0.02	0.01
Roe	Value	160.22	100.00	117.87	149.04	99.00	138.52
Roe	Price	152.51	100.00	150.23	167.25	136.94	124.32
Roe	Quantity	105.06	100.00	78.46	89.11	72.29	111.43
Roe	Value Share	0.12	0.07	0.07	0.08	0.06	0.08
Surimi	Value	82.41	100.00	135.27	166.29	125.08	141.49
Surimi	Price	90.01	100.00	85.32	93.01	68.59	75.07
Surimi	Quantity	91.56	100.00	158.55	178.78	182.37	188.49
Surimi	Value Share	0.22	0.25	0.27	0.31	0.26	0.28

**Notes:** Products types 'Minced', 'Other' and those with a value share less than 1% were not included in this table. All product types were used to construct aggregate indices and value share. The Fisher index method was used to construct the indices. Further details can be found in the text or by contacting Ben.Fissel@NOAA.gov.

**Source:** Catch-accounting system estimates, National Marine Fisheries Service. P.O. Box 15700, Seattle, WA 98115-0070.

Table 5.5: Species Indices and Value Share for the BSAI Shoreside Ex-Vessel Market 2006 - 2014

Species	Index Type	2006	2007	2008	2009	2010	2011	2012	2013	2014
Aggregate Value		150.29	141.31	166.09	112.01	100.00	156.96	168.83	146.54	154.18
Aggregate Price		89.69	93.31	139.29	113.33	100.00	109.35	114.41	96.91	101.74
Aggregate Quantity		167.56	151.44	119.25	98.84	100.00	143.54	147.57	151.21	151.55
PCOD	Value	181.33	194.66	237.19	83.69	100.00	155.58	204.44	155.62	169.52
PCOD	Price	157.17	181.57	228.21	99.00	100.00	110.04	128.42	98.60	110.16
PCOD	Quantity	115.37	107.21	103.93	84.54	100.00	141.39	159.20	157.83	153.89
PCOD	Value Share	0.17	0.20	0.20	0.11	0.14	0.14	0.17	0.15	0.16
PLCK	Value	151.11	136.75	161.47	120.61	100.00	159.89	169.66	153.61	159.46
PLCK	Price	82.20	83.77	132.53	121.00	100.00	108.25	113.49	98.28	100.83
PLCK	Quantity	183.83	163.25	121.84	99.68	100.00	147.70	149.50	156.29	158.14
PLCK	Value Share	0.78	0.75	0.76	0.84	0.78	0.79	0.78	0.82	0.81
SABL	Value	70.90	73.77	72.15	64.55	100.00	124.37	87.94	58.75	68.95
SABL	Price	54.07	52.52	68.93	60.45	100.00	119.92	82.74	66.67	93.86
SABL	Quantity	131.12	140.47	104.67	106.79	100.00	103.70	106.29	88.12	73.46
SABL	Value Share	0.03	0.04	0.03	0.04	0.07	0.06	0.04	0.03	0.03

**Notes:** Species with a value share less than 1% were not included in this table. All groundfish species were used to calculate aggregate indices and value share. The Fisher index method was used to construct the indices. Further details can be found in the text or by contacting Ben.Fissel@NOAA.gov.

**Source:** NMFS Alaska Region's CAS and WPR estimates; ADF&G COAR, National Marine Fisheries Service. P.O. Box 15700, Seattle, WA 98115-0070.

Table 5.6: Gear Indices and Value Share for the BSAI Shoreside Ex-Vessel Market 2006 - 2014

Gear	Index Type	2006	2007	2008	2009	2010	2011	2012	2013	2014
Aggregate	Value	150.29	141.31	166.09	112.01	100.00	156.96	168.83	146.54	154.18
Aggregate	Price	89.69	93.31	139.29	113.33	100.00	109.35	114.41	96.91	101.74
Aggregate	Quantity	167.56	151.44	119.25	98.84	100.00	143.54	147.57	151.21	151.55
HAL	Value	47.28	24.99	51.28	57.54	100.00	125.58	93.33	64.46	91.52
HAL	Price	65.23	64.50	82.69	63.22	100.00	117.82	84.63	68.52	91.77
HAL	Quantity	72.49	38.75	62.01	91.03	100.00	106.58	110.27	94.07	99.73
HAL	Value Share	0.01	0.01	0.01	0.02	0.04	0.03	0.02	0.02	0.03
POT	Value	132.75	136.49	158.69	63.47	100.00	142.30	129.60	98.65	112.02
POT	Price	109.33	111.49	139.76	79.63	100.00	107.08	103.61	80.58	95.78
POT	Quantity	121.42	122.43	113.54	79.70	100.00	132.89	125.08	122.42	116.96
POT	Value Share	0.09	0.10	0.10	0.06	0.10	0.09	0.08	0.07	0.08
TWL	Value	157.63	147.76	172.79	120.72	100.00	160.34	177.46	156.56	162.52
TWL	Price	89.39	93.25	142.26	119.44	100.00	109.24	116.61	99.58	102.89
TWL	Quantity	176.35	158.45	121.46	101.07	100.00	146.78	152.18	157.21	157.96
TWL	Value Share	0.89	0.89	0.89	0.92	0.85	0.87	0.90	0.91	0.90

**Notes:** The Fisher index method was used to construct the indices. Further details on index construction and gear decomposition can be found in the text or by contacting Ben.Fissel@NOAA.gov.

**Source:** NMFS Alaska Region's CAS and WPR estimates; ADF&G COAR, National Marine Fisheries Service. P.O. Box 15700, Seattle, WA 98115-0070.

Table 5.7: Species Indices and Value Share for the GOA At-Sea First-Wholesale Market 2009 - 2014

Species	Index Type	2009	2010	2011	2012	2013	2014
Aggregate	Value	81.61	100.00	137.15	102.42	73.36	125.00
Aggregate	Price	86.90	100.00	133.69	113.18	89.72	108.90
Aggregate	Quantity	93.92	100.00	102.59	90.49	81.77	114.78
AMCK	Value	104.58	100.00	128.59	93.58	129.59	130.00
AMCK	Price	101.32	100.00	131.79	139.95	132.36	137.71
AMCK	Quantity	103.22	100.00	97.57	66.87	97.90	94.40
AMCK	Value Share	0.03	0.03	0.03	0.02	0.05	0.03
FLAT	Value	101.94	100.00	166.17	136.88	123.85	296.97
FLAT	Price	98.17	100.00	129.62	138.23	114.13	139.14
FLAT	Quantity	103.84	100.00	128.20	99.02	108.52	213.43
FLAT	Value Share	0.19	0.16	0.19	0.21	0.26	0.37
PCOD	Value	67.92	100.00	116.02	70.59	33.60	63.93
PCOD	Price	88.92	100.00	112.51	101.72	77.63	89.99
PCOD	Quantity	76.38	100.00	103.12	69.40	43.28	71.04
PCOD	Value Share	0.22	0.27	0.23	0.18	0.12	0.14
PLCK	Value	124.47	100.00	134.33	109.44	114.21	128.10
PLCK	Price	104.28	100.00	123.51	113.65	106.48	99.65
PLCK	Quantity	119.36	100.00	108.76	96.29	107.26	128.55
PLCK	Value Share	0.02	0.01	0.01	0.01	0.02	0.01
ROCK	Value	68.11	100.00	138.27	122.51	71.66	116.84
ROCK	Price	78.91	100.00	156.71	126.33	86.89	114.58
ROCK	Quantity	86.31	100.00	88.23	96.97	82.47	101.98
ROCK	Value Share	0.29	0.35	0.35	0.42	0.34	0.33
SABL	Value	103.65	100.00	141.22	80.17	78.96	84.60
SABL	Price	84.74	100.00	127.63	79.27	78.12	87.46
SABL	Quantity	122.31	100.00	110.65	101.13	101.08	96.73
SABL	Value Share	0.23	0.18	0.19	0.14	0.20	0.12

**Notes:** Species with a value share less than 1% were not included in this table. All groundfish species were used to calculate aggregate indices and value share. The Fisher index method was used to construct the indices. Further details can be found in the text or by contacting Ben.Fissel@NOAA.gov.

**Source:** NMFS Alaska Region's WPR; ADF&G COAR, National Marine Fisheries Service. P.O. Box 15700, Seattle, WA 98115-0070.

Table 5.8: Product Indices and Value Share for the GOA At-Sea First-Wholesale Market 2009 - 2014

Product	Index Type	2009	2010	2011	2012	2013	2014
Aggregate	Value	81.61	100.00	137.15	102.42	73.36	125.00
Aggregate	Price	86.90	100.00	133.69	113.18	89.72	108.90
Aggregate	Quantity	93.92	100.00	102.59	90.49	81.77	114.78
Head&Gut	Value	78.12	100.00	148.31	110.87	72.65	134.19
Head&Gut	Price	85.49	100.00	134.53	111.33	85.21	106.58
Head&Gut	Quantity	91.38	100.00	110.24	99.59	85.26	125.90
Head&Gut	Value Share	0.80	0.84	0.91	0.91	0.83	0.90
Other	Value	69.86	100.00	180.87	124.76	91.99	86.70
Other	Price	94.68	100.00	124.99	146.64	128.32	134.71
Other	Quantity	73.79	100.00	144.72	85.08	71.69	64.36
Other	Value Share	0.01	0.01	0.02	0.02	0.02	0.01
Whole	Value	102.63	100.00	68.50	51.16	76.18	75.90
Whole	Price	93.52	100.00	128.71	132.40	137.61	135.79
Whole	Quantity	109.75	100.00	53.22	38.64	55.36	55.89
Whole	Value Share	0.18	0.14	0.07	0.07	0.15	0.09

**Notes:** Products types 'Minced' and those with a value share less than 1% were not included in this table. All product types were used to construct aggregate indices and value share. The Fisher index method was used to construct the indices. Further details can be found in the text or by contacting Ben.Fissel@NOAA.gov.

**Source:** NMFS Alaska Region's WPR; ADF&G COAR, National Marine Fisheries Service. P.O. Box 15700, Seattle, WA 98115-0070.

Table 5.9: Species Indices and Value Share for the GOA Shoreside First-Wholesale Market 2009 - 2014

Species	Index Type	2009	2010	2011	2012	2013	2014
Aggregate	Value	74.02	100.00	129.20	122.81	111.60	123.99
Aggregate	Price	97.23	100.00	118.04	104.32	98.74	96.24
Aggregate	Quantity	76.13	100.00	109.46	117.73	113.02	128.83
FLAT	Value	143.90	100.00	124.12	99.47	131.09	112.58
FLAT	Price	101.44	100.00	116.73	125.31	133.93	108.18
FLAT	Quantity	141.85	100.00	106.34	79.38	97.88	104.06
FLAT	Value Share	0.08	0.04	0.04	0.03	0.05	0.04
OTHR	Value	68.90	100.00	135.84	177.16	170.58	94.04
OTHR	Price	76.99	100.00	137.22	165.41	143.45	133.52
OTHR	Quantity	89.49	100.00	98.99	107.11	118.91	70.43
OTHR	Value Share	0.01	0.01	0.01	0.02	0.02	0.01
PCOD	Value	67.76	100.00	131.66	118.70	102.33	124.11
PCOD	Price	104.71	100.00	120.57	109.07	111.99	115.82
PCOD	Quantity	64.71	100.00	109.20	108.83	91.37	107.16
PCOD	Value Share	0.31	0.33	0.34	0.32	0.31	0.33
PLCK	Value	52.17	100.00	109.52	132.70	142.10	160.50
PLCK	Price	109.07	100.00	93.97	91.03	93.75	75.33
PLCK	Quantity	47.83	100.00	116.54	145.78	151.58	213.07
PLCK	Value Share	0.18	0.25	0.21	0.27	0.32	0.32
ROCK	Value	76.82	100.00	128.56	156.66	114.71	112.40
ROCK	Price	97.81	100.00	132.12	139.40	109.56	100.11
ROCK	Quantity	78.55	100.00	97.31	112.38	104.71	112.27
ROCK	Value Share	0.05	0.05	0.05	0.07	0.05	0.05
SABL	Value	88.70	100.00	143.07	114.57	91.32	98.94
SABL	Price	84.04	100.00	132.85	99.33	80.41	97.89
SABL	Quantity	105.55	100.00	107.69	115.34	113.56	101.08
SABL	Value Share	0.37	0.31	0.34	0.29	0.25	0.25

**Notes:** Species with a value share less than 1% were not included in this table. All groundfish species were used to calculate aggregate indices and value share. The Fisher index method was used to construct the indices. Further details can be found in the text or by contacting Ben.Fissel@NOAA.gov.

**Source:** NMFS Alaska Region's WPR; ADF&G COAR, National Marine Fisheries Service. P.O. Box 15700, Seattle, WA 98115-0070.

Table 5.10: Product Indices and Value Share for the GOA Shoreside First-Wholesale Market 2009 - 2014

Product	Index Type	2009	2010	2011	2012	2013	2014
Aggregate	Value	74.02	100.00	129.20	122.81	111.60	123.99
Aggregate	Price	97.23	100.00	118.04	104.32	98.74	96.24
Aggregate	Quantity	76.13	100.00	109.46	117.73	113.02	128.83
Fillet	Value	73.64	100.00	111.54	104.68	115.07	122.79
Fillet	Price	102.73	100.00	108.78	102.39	109.89	104.36
Fillet	Quantity	71.69	100.00	102.54	102.24	104.72	117.67
Fillet	Value Share	0.29	0.29	0.25	0.25	0.30	0.29
Head&Gut	Value	75.51	100.00	144.02	128.48	103.10	127.07
Head&Gut	Price	92.45	100.00	125.07	103.73	93.09	99.88
Head&Gut	Quantity	81.67	100.00	115.15	123.87	110.75	127.22
Head&Gut	Value Share	0.49	0.48	0.54	0.50	0.44	0.49
Other	Value	76.40	100.00	148.79	144.96	111.02	84.99
Other	Price	99.82	100.00	128.04	121.36	108.65	101.37
Other	Quantity	76.54	100.00	116.20	119.45	102.18	83.84
Other	Value Share	0.05	0.05	0.05	0.05	0.05	0.03
Roe	Value	88.91	100.00	166.32	231.38	268.46	307.18
Roe	Price	162.42	100.00	145.11	157.19	144.12	112.39
Roe	Quantity	54.74	100.00	114.62	147.19	186.28	273.32
Roe	Value Share	0.03	0.02	0.03	0.05	0.06	0.06
Surimi	Value	36.42	100.00	87.39	119.27	88.58	104.62
Surimi	Price	91.32	100.00	84.84	85.10	72.52	60.00
Surimi	Quantity	39.88	100.00	103.01	140.15	122.15	174.37
Surimi	Value Share	0.04	0.09	0.06	0.09	0.07	0.07
Whole	Value	127.00	100.00	152.05	104.09	131.85	105.05
Whole	Price	97.75	100.00	145.64	112.07	110.48	89.57
Whole	Quantity	129.93	100.00	104.40	92.88	119.34	117.28
Whole	Value Share	0.08	0.05	0.06	0.04	0.06	0.04

**Notes:** Products types 'Minced' and those with a value share less than 1% were not included in this table. All product types were used to construct aggregate indices and value share. The Fisher index method was used to construct the indices. Further details can be found in the text or by contacting Ben.Fissel@NOAA.gov.

**Source:** NMFS Alaska Region's WPR; ADF&G COAR, National Marine Fisheries Service. P.O. Box 15700, Seattle, WA 98115-0070.

Table 5.11: Species Indices and Value Share for the GOA Shoreside Ex-Vessel Market 2006 - 2014

Species	Index Type	2006	2007	2008	2009	2010	2011	2012	2013	2014
Aggregate Value		87.12	93.08	102.35	80.18	100.00	133.99	135.57	103.38	112.57
Aggregate Price		84.88	93.27	104.52	93.66	100.00	123.41	114.26	91.94	94.40
Aggregate Quantity		102.64	99.79	97.93	85.61	100.00	108.58	118.65	112.45	119.25
FLAT	Value	134.12	151.91	174.42	142.04	100.00	104.55	88.59	115.07	121.61
FLAT	Price	129.18	142.82	132.49	123.80	100.00	102.61	127.81	131.35	134.53
FLAT	Quantity	103.83	106.36	131.64	114.74	100.00	101.90	69.31	87.60	90.40
FLAT	Value Share	0.05	0.05	0.06	0.06	0.03	0.03	0.02	0.04	0.04
OTHR	Value	59.32	63.00	115.53	96.25	100.00	144.03	149.08	139.67	102.14
OTHR	Price	61.53	90.64	140.01	91.50	100.00	141.57	150.94	142.83	149.37
OTHR	Quantity	96.41	69.51	82.52	105.19	100.00	101.74	98.77	97.78	68.38
OTHR	Value Share	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01
PCOD	Value	102.26	132.40	143.39	70.79	100.00	143.51	146.07	95.29	123.44
PCOD	Price	153.56	194.44	199.83	112.41	100.00	128.47	136.14	102.58	114.88
PCOD	Quantity	66.59	68.10	71.75	62.97	100.00	111.71	107.29	92.90	107.46
PCOD	Value Share	0.22	0.26	0.26	0.16	0.19	0.20	0.20	0.17	0.20
PLCK	Value	73.26	57.02	68.69	53.43	100.00	97.98	133.39	125.83	133.82
PLCK	Price	78.20	83.59	104.87	100.48	100.00	93.06	99.00	101.78	71.17
PLCK	Quantity	93.68	68.22	65.50	53.18	100.00	105.28	134.74	123.63	188.04
PLCK	Value Share	0.17	0.12	0.13	0.13	0.20	0.14	0.19	0.24	0.23
ROCK	Value	107.67	125.24	121.08	74.89	100.00	107.94	212.27	164.63	154.85
ROCK	Price	119.71	123.25	125.40	84.18	100.00	118.18	187.14	154.26	139.30
ROCK	Quantity	89.94	101.62	96.56	88.96	100.00	91.34	113.43	106.72	111.16
ROCK	Value Share	0.03	0.04	0.03	0.02	0.03	0.02	0.04	0.04	0.04
SABL	Value	83.71	88.21	94.92	89.08	100.00	146.60	131.66	93.52	98.84
SABL	Price	66.17	68.57	79.74	85.39	100.00	133.46	108.03	78.63	95.42
SABL	Quantity	126.51	128.65	119.04	104.33	100.00	109.85	121.87	118.93	103.58
SABL	Value Share	0.52	0.52	0.51	0.61	0.55	0.60	0.53	0.49	0.48

**Notes:** Species with a value share less than 1% were not included in this table. All groundfish species were used to calculate aggregate indices and value share. The Fisher index method was used to construct the indices. Further details can be found in the text or by contacting Ben.Fissel@NOAA.gov.

**Source:** NMFS Alaska Region's WPR; ADF&G COAR, National Marine Fisheries Service. P.O. Box 15700, Seattle, WA 98115-0070.



Table 5.12: Gear Indices and Value Share for the GOA Shoreside Ex-Vessel Market 2006 - 2014

Gear	Index Type	2006	2007	2008	2009	2010	2011	2012	2013	2014
Aggregate	Value	87.12	93.08	102.35	80.18	100.00	133.99	135.57	103.38	112.57
Aggregate	Price	84.88	93.27	104.52	93.66	100.00	123.41	114.26	91.94	94.40
Aggregate	Quantity	102.64	99.79	97.93	85.61	100.00	108.58	118.65	112.45	119.25
HAL	Value	86.99	93.26	101.96	89.91	100.00	144.28	135.94	95.96	100.51
HAL	Price	71.48	75.53	87.70	86.62	100.00	133.01	110.33	81.06	97.25
HAL	Quantity	121.71	123.48	116.26	103.80	100.00	108.47	123.22	118.38	103.36
HAL	Value Share	0.57	0.57	0.57	0.64	0.57	0.61	0.57	0.53	0.51
POT	Value	102.84	114.23	112.81	65.45	100.00	181.45	141.28	85.63	114.90
POT	Price	145.96	179.21	206.53	111.20	100.00	126.18	134.20	101.93	114.61
POT	Quantity	70.45	63.74	54.62	58.86	100.00	143.80	105.28	84.01	100.25
POT	Value Share	0.10	0.11	0.09	0.07	0.09	0.12	0.09	0.07	0.09
TWL	Value	83.42	87.51	100.41	67.76	100.00	105.21	133.53	120.04	131.91
TWL	Price	103.06	117.12	122.55	104.18	100.00	106.03	115.98	108.18	89.67
TWL	Quantity	80.94	74.72	81.93	65.04	100.00	99.22	115.13	110.96	147.11
TWL	Value Share	0.33	0.32	0.34	0.29	0.34	0.27	0.34	0.40	0.40

**Notes:** The Fisher index method was used to construct the indices. Further details on index construction and gear decomposition can be found in the text or by contacting Ben.Fissel@NOAA.gov.

**Source:** NMFS Alaska Region's CAS and WPR estimates; ADF&G COAR, National Marine Fisheries Service. P.O. Box 15700, Seattle, WA 98115-0070.

## A. ADDITIONAL ECONOMIC DATA TABLES

### A.1. Ex-vessel Value and Price Data Tables: alternative pricing based on CFEC fish tickets

These tables present ex-vessel prices and value utilizing prices derived from ADF&G fish tickets priced by the Alaska Commercial Fisheries Entry Commission (CFEC). This provides an alternative source of ex-vessel prices to the Commercial Operator Annual Report (COAR) purchasing data that has historically been used to assemble Tables 16-24. CFEC fish ticket prices reflect individual transactions reported on shoreside and mothership landing reports, adjusted by analysts with consideration to COAR buying data, and therefore may be subject to additional scrutiny. Work is ongoing to analyze and characterize differences between the two pricing methods, and we are working with industry to get their perspective on which source may best reflect the pricing conditions faced by their companies. Until we have finalized this inquiry we will retain the CFEC pricing in this appendix. Note that Tables 16.B-24.B are valid only for the years after 2003.

Table 16.B: Real ex-vessel value of the catch in the domestic commercial fisheries off Alaska by species group, 2004 - 2014 ; calculations based on CFEC fish tickets (\$ millions, base year = 2014 )

Year	Shellfish	Salmon	Herring	Halibut	Groundfish	Total
2004	259.0	398.5	21.9	263.6	817.2	1,760.2
2005	243.9	454.5	21.3	246.4	947.8	1,913.8
2006	191.8	426.3	13.4	262.0	968.7	1,862.2
2007	250.3	513.3	20.4	288.7	963.7	2,036.5
2008	327.7	523.6	32.4	264.5	1,147.8	2,296.1
2009	248.4	498.7	30.7	173.0	714.7	1,665.5
2010	273.3	617.1	26.2	237.3	781.3	1,935.1
2011	333.7	685.8	12.1	230.0	991.1	2,252.8
2012	357.6	597.4	24.3	162.4	1,054.4	2,196.1
2013	258.5	736.9	17.7	120.9	947.2	2,081.2
2014	244.1	546.0	11.5	106.7	795.4	1,703.7

**Notes:** These estimates include the value of catch from both federal and state of Alaska fisheries. The data have been adjusted to 2014 dollars by applying the Producer Price Index for unprocessed and packaged fish (series number WPU0223) from the Bureau of Labor Statistics at: <http://data.bls.gov/cgi-bin/srgate>.

**Source:** NMFS Alaska Region Blend and Catch-Accounting System estimates, At-Sea Production Report, Alaska Commercial Fisheries Entry Commission (CFEC) fish tickets, Fisheries of the United States (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 17.B: Percentage distribution of ex-vessel value of the catch in the domestic commercial fisheries off Alaska by species group, 2004 - 2014 ; calculations based on CFEC fish tickets.

Year	Shellfish	Salmon	Herring	Halibut	Groundfish
2004	14.7 %	22.6 %	1.2 %	15.0 %	46.4 %
2005	12.7 %	23.7 %	1.1 %	12.9 %	49.5 %
2006	10.3 %	22.9 %	0.7 %	14.1 %	52.0 %
2007	12.3 %	25.2 %	1.0 %	14.2 %	47.3 %
2008	14.3 %	22.8 %	1.4 %	11.5 %	50.0 %
2009	14.9 %	29.9 %	1.8 %	10.4 %	42.9 %
2010	14.1 %	31.9 %	1.4 %	12.3 %	40.4 %
2011	14.8 %	30.4 %	0.5 %	10.2 %	44.0 %
2012	16.3 %	27.2 %	1.1 %	7.4 %	48.0 %
2013	12.4 %	35.4 %	0.8 %	5.8 %	45.5 %
2014	14.3 %	32.0 %	0.7 %	6.3 %	46.7 %

**Notes:** These estimates report the distribution of the value of catch from both federal and state of Alaska fisheries.

**Source:** NMFS Alaska Region Blend and Catch-Accounting System estimates, At-Sea Production Report, Alaska Commercial Fisheries Entry Commission (CFEC) fish tickets, Fisheries of the United States. (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 18.B: Ex-vessel prices in the groundfish fisheries off Alaska by area, gear, and species, 2010 - 2014 ; calculations based on CFEC fish tickets (\$/lb, round weight)

	Year	Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska
		Fixed	Trawl	Fixed	Trawl	All Gear
Pollock	2010	0.117	0.166	0.129	0.142	0.144
	2011	0.141	0.161	0.172	0.142	0.143
	2012	0.146	0.170	0.161	0.157	0.158
	2013	0.166	0.170	0.155	0.147	0.149
	2014	0.109	0.124	0.113	0.127	0.127
Sablefish	2010	3.689	2.844	3.588	1.595	3.599
	2011	4.935	4.032	4.883	1.791	4.844
	2012	3.968	3.246	3.506	1.013	3.824
	2013	2.785	2.333	2.720	1.173	2.729
	2014	3.452	2.664	3.319	1.173	3.368
Pacific Cod	2010	0.270	0.231	0.300	0.230	0.271
	2011	0.319	0.299	0.218	0.224	0.246
	2012	0.342	0.310	0.194	0.238	0.239
	2013	0.277	0.237	0.327	0.203	0.279
	2014	0.294	0.251	0.184	0.209	0.214
Flatfish	2010	0.051	0.100	0.044	0.147	0.141
	2011	0.056	0.091	0.065	0.180	0.169
	2012	0.072	0.108	0.049	0.199	0.191
	2013	0.051	0.117	0.496	0.160	0.157
	2014	0.064	0.092	0.407	0.161	0.151
Rockfish	2010	0.634	0.181	0.404	0.228	0.216
	2011	0.697	0.259	0.526	0.345	0.316
	2012	0.801	0.265	0.501	0.289	0.290
	2013	0.816	0.196	0.579	0.213	0.221
	2014	0.750	0.187	0.560	0.213	0.212
Atka Mackerel	2010	*	0.277	0.054	0.209	0.210
	2011	0.016	0.364	0.151	0.265	0.267
	2012	0.131	0.386	0.152	0.293	0.295
	2013	*	0.366	0.318	0.322	0.324
	2014	*	0.363	0.326	0.322	0.324

**Notes:** 1) Prices are for catch from both federal and state of Alaska fisheries.

2) Prices do not include the value added by at-sea processing except for the value added by dressing fish at sea where the fish have not been frozen. The unfrozen landings price is calculated as landed value divided by estimated or actual round weight.

3) Trawl-caught sablefish, rockfish and flatfish in the BSAI and trawl-caught Atka mackerel in both the BSAI and the GOA are not well represented by on-shore landings. A price was calculated for these categories from product-report prices; the price in this case is the value of the product divided by the calculated round weight and multiplied by a constant 0.4 to correct for value added by processing.

4) The “All Alaska/All gear” column is the weighted average of the other columns.

“\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch Accounting System, Alaska Commercial Fisheries Entry Commission (CFEC) fish tickets, At-Sea Production Report, (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 19.B: Ex-vessel value of the groundfish catch off Alaska by area, vessel category, gear, and species, 2010 - 2014 ; calculations based on CFEC fish tickets (\$ millions)

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
		Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	
Hook & Line	Sablefish	2010	72.8	5.3	78.2	5.2	4.7	9.9	78.0	10.0	88.0
		2011	105.0	8.3	113.4	7.4	4.6	12.0	112.4	12.9	125.3
		2012	94.5	6.1	100.6	6.1	4.1	10.2	100.6	10.2	110.8
		2013	64.5	4.2	68.7	3.5	2.9	6.5	68.0	7.1	75.1
		2014	69.1	4.2	73.3	4.0	1.5	5.5	73.1	5.8	78.8
	Pacific Cod	2010	8.2	5.1	13.4	0.4	57.3	57.7	8.7	62.4	71.1
		2011	10.7	3.4	14.1	0.8	49.5	50.3	11.4	52.9	64.4
		2012	13.1	1.6	14.7	0.7	46.2	46.9	13.8	47.8	61.6
		2013	6.6	2.4	9.0	0.7	93.6	94.2	7.2	95.9	103.2
		2014	7.9	3.5	11.4	0.8	42.3	43.1	8.6	45.8	54.5
	Flatfish	2010	0	0	0	*	0.3	0.3	0	0.3	0.3
		2011	0	0	0	*	0.3	0.3	0	0.3	0.3
		2012	0	0	0	*	0.3	0.3	0	0.3	0.3
		2013	0	*	0	*	0.8	0.8	0	0.8	0.8
		2014	0	*	0	*	0.7	0.7	0	0.7	0.7
	Rockfish	2010	1.4	0.1	1.5	0.1	0.3	0.3	1.5	0.4	1.8
		2011	1.3	0.1	1.4	0.1	0.1	0.2	1.4	0.2	1.7
		2012	1.8	0.1	2.0	0.1	0.2	0.3	1.9	0.3	2.2
		2013	2.1	0.1	2.2	0.1	0.1	0.2	2.1	0.2	2.4
		2014	1.6	0.1	1.7	0.1	0.1	0.2	1.6	0.2	1.9
All Species	2010	82.9	10.8	93.7	5.7	65.0	70.7	88.6	75.8	164.4	
	2011	117.6	12.1	129.7	8.3	58.3	66.5	125.8	70.4	196.2	
	2012	110.4	8.0	118.3	6.8	56.0	62.8	117.2	64.0	181.2	
	2013	73.7	6.7	80.5	4.3	103.0	107.2	78.0	109.7	187.7	
	2014	79.1	7.9	87.0	4.8	47.3	52.1	83.9	55.2	139.1	

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Table 19.B: Continued

		Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
	Year	Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	
Pot	Pacific Cod	2010	20.0	-	20.0	11.4	3.7	15.1	31.4	3.7	35.1
		2011	33.3	*	33.3	18.2	1.3	19.5	51.5	1.3	52.7
		2012	28.7	*	28.7	19.9	2.2	22.0	48.6	2.2	50.8
		2013	18.3	-	18.3	16.5	*	16.5	34.7	*	34.7
		2014	25.2	-	25.2	20.2	4.4	24.6	45.3	4.4	49.8
	Pollock	2010	27.4	0.3	27.6	146.7	104.6	251.4	174.1	104.9	279.0
		2011	27.8	0.4	28.1	223.3	148.6	372.0	251.1	149.0	400.1
		2012	37.8	0.4	38.2	235.0	178.3	413.3	272.8	178.7	451.6
		2013	34.7	0.4	35.1	216.4	193.4	409.8	251.2	193.8	445.0
		2014	38.2	0.5	38.7	187.7	172.1	359.8	225.9	172.6	398.5
Trawl	Sablefish	2010	2.9	2.5	5.4	0	0.4	0.4	2.9	2.9	5.7
		2011	4.7	3.5	8.2	0	0.3	0.3	4.7	3.8	8.5
		2012	2.9	2.8	5.7	*	0.5	0.5	2.9	3.3	6.2
		2013	2.1	2.0	4.1	*	0.5	0.5	2.1	2.5	4.6
		2014	2.7	2.5	5.2	*	0.2	0.2	2.7	2.7	5.4
	Pacific Cod	2010	9.2	0.6	9.8	11.3	18.5	29.8	20.5	19.1	39.7
		2011	9.9	0.5	10.4	17.8	18.1	35.9	27.7	18.6	46.3
		2012	12.9	0.4	13.3	28.1	17.4	45.5	41.0	17.9	58.9
		2013	9.7	0.4	10.1	20.9	18.6	39.5	30.6	19.0	49.6
		2014	12.2	0.7	12.9	17.0	19.1	36.1	29.3	19.8	49.0
	Flatfish	2010	3.8	2.2	5.9	0.2	73.1	73.3	4.0	75.2	79.2
		2011	4.1	2.5	6.6	0.5	102.2	102.7	4.6	104.7	109.3
		2012	3.5	2.1	5.6	0.5	117.0	117.5	4.0	119.1	123.1
		2013	4.3	2.8	7.1	0.3	95.3	95.5	4.6	98.1	102.6
		2014	4.7	4.1	8.8	0.8	90.2	91.0	5.4	94.3	99.7

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Table 19.B: Continued

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
		Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	
Trawl	Rockfish	2010	2.5	6.6	9.1	0	10.7	10.7	2.5	17.3	19.8
		2011	2.9	8.7	11.5	0	20.4	20.5	2.9	29.1	32.0
		2012	6.1	8.1	14.2	0	16.8	16.8	6.1	24.9	31.0
		2013	4.2	4.8	9.0	0	15.8	15.8	4.2	20.6	24.8
		2014	4.0	6.3	10.3	0.1	16.0	16.2	4.2	22.3	26.5
	Atka Mackerel	2010	0	0.7	0.7	0	29.8	29.8	0	30.5	30.5
		2011	0	0.8	0.8	0.1	29.1	29.2	0.1	29.9	30.0
		2012	0	0.6	0.6	0	30.0	30.0	0	30.6	30.6
		2013	0	0.7	0.7	0	16.0	16.0	0	16.6	16.6
		2014	0	0.8	0.8	0	21.7	21.7	0	22.5	22.5
	All Species	2010	46.6	13.1	59.7	158.4	237.9	396.3	205.0	251.1	456.0
		2011	50.7	16.7	67.4	241.8	319.1	560.9	292.5	335.8	628.2
		2012	64.6	14.7	79.4	263.7	361.0	624.8	328.4	375.8	704.2
		2013	56.6	11.1	67.7	237.6	339.9	577.6	294.2	351.0	645.3
		2014	62.5	14.9	77.4	205.8	320.0	525.8	268.3	334.9	603.2
All Gear	Pollock	2010	27.4	0.3	27.7	146.7	105.6	252.3	174.1	105.9	280.0
		2011	27.8	0.4	28.2	223.3	150.4	373.7	251.1	150.8	401.9
		2012	37.9	0.4	38.3	235.0	179.9	414.9	272.9	180.3	453.2
		2013	34.8	0.4	35.2	216.4	194.9	411.4	251.2	195.3	446.6
		2014	38.3	0.5	38.7	187.7	173.5	361.2	226.0	173.9	399.9
Sablefish	2010	75.7	7.9	83.5	5.2	5.0	10.2	80.9	12.9	93.8	
	2011	110.1	11.8	122.0	12.7	4.9	17.6	122.8	16.8	139.5	
	2012	97.4	8.9	106.3	6.1	4.6	10.7	103.5	13.5	117.0	
	2013	66.8	6.2	73.0	3.5	3.4	7.0	70.3	9.7	80.0	
	2014	71.8	6.8	78.5	4.0	1.7	5.7	75.7	8.5	84.2	

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Table 19.B: Continued

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska			
		Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	Catcher Vessel	Catcher Processor	All Sectors	
All Gear	Pacific Cod	2010	37.5	5.8	43.2	23.2	79.5	102.7	60.6	85.3	145.9
		2011	53.8	3.9	57.7	36.7	68.9	105.6	90.6	72.8	163.4
		2012	54.7	2.0	56.8	48.6	65.8	114.4	103.4	67.8	171.2
		2013	34.5	2.8	37.3	38.1	112.1	150.2	72.6	114.9	187.5
		2014	45.3	4.2	49.5	38.0	65.8	103.8	83.2	70.0	153.3
		2010	3.8	2.2	6.0	0.2	73.3	73.6	4.0	75.5	79.5
		2011	4.1	2.5	6.6	0.5	102.6	103.1	4.6	105.1	109.7
		2012	3.5	2.1	5.6	0.5	117.3	117.8	4.0	119.4	123.4
		2013	4.3	2.8	7.1	0.3	96.1	96.3	4.6	98.9	103.5
		2014	4.7	4.1	8.8	0.8	90.9	91.7	5.4	95.0	100.5
		2010	3.9	6.7	10.5	0.1	11.0	11.1	3.9	17.7	21.6
		2011	4.2	8.8	12.9	0.1	20.6	20.7	4.3	29.3	33.6
		2012	8.0	8.2	16.1	0.1	17.0	17.1	8.1	25.2	33.2
		2013	6.3	4.9	11.2	0.1	15.9	16.0	6.4	20.8	27.2
		2014	5.6	6.4	12.0	0.2	16.1	16.3	5.8	22.5	28.3
		2010	0	0.7	0.7	0	29.8	29.8	0	30.5	30.5
		2011	0	0.8	0.8	0.1	29.1	29.2	0.1	29.9	30.0
		2012	0	0.6	0.6	0	30.0	30.0	0	30.6	30.6
		2013	0	0.7	0.7	0	16.0	16.0	0	16.6	16.6
		2014	0	0.8	0.8	0	21.7	21.7	0	22.5	22.5
	2010	149.8	23.9	173.7	175.5	306.6	482.1	325.2	330.5	655.8	
	2011	202.3	28.8	231.1	273.5	378.6	652.1	475.8	407.4	883.2	
	2012	204.0	22.7	226.7	290.5	419.2	709.7	494.5	441.9	936.4	
	2013	149.0	17.8	166.8	258.4	442.9	701.3	407.4	460.7	868.1	
	2014	167.3	22.8	190.1	230.9	371.7	602.6	398.1	394.5	792.7	

**Notes:** These estimates include the value of catch from both federal and state of Alaska fisheries. Ex-vessel value is calculated using prices on Table 18b. Please refer to Table 18b for a description of the price derivation. All groundfish includes additional species categories. The value added by at-sea processing is not included in these estimates of ex-vessel value. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch Accounting System, Alaska Commercial Fisheries Entry Commission (CFEC) fish tickets, At-Sea Production Report (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.



Table 20.B: Ex-vessel value of Alaska groundfish delivered to shoreside processors by area, gear and catcher-vessel length, 2005 - 2014 ; calculations based on CFEC fish tickets (\$ millions)

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska		
		<60	60-125	>=125	<60	60-125	>=125	<60	60-125	>=125
Fixed	2005	53.1	24.3	0.3	3.9	11.1	1.9	57.1	35.4	2.1
	2006	60.9	30.7	0.2	6.2	13.2	3.6	67.2	43.9	3.8
	2007	70.1	31.4	0	5.8	16.4	2.7	75.9	47.8	2.7
	2008	81.4	33.1	0.3	9.4	16.5	3.8	90.8	49.6	4.1
	2009	63.3	24.8	*	5.4	7.9	1.7	68.7	32.8	1.7
	2010	74.5	28.8	*	7.0	10.9	2.9	81.5	39.7	2.9
	2011	109.0	42.6	*	12.3	15.4	4.0	121.4	58.0	4.0
	2012	101.1	38.6	*	15.4	10.6	3.6	116.5	49.2	3.6
	2013	68.5	24.0	*	11.7	8.2	3.2	80.2	32.1	3.2
	2014	78.1	27.0	-	17.0	7.8	2.3	95.1	34.7	2.3
Trawl	2005	7.2	28.3	-	*	83.8	102.3	7.2	112.0	102.3
	2006	7.2	31.4	-	*	92.6	110.3	7.2	124.0	110.3
	2007	7.7	29.6	-	*	88.0	96.9	7.7	117.6	96.9
	2008	12.1	38.1	*	*	103.4	118.0	12.1	141.5	118.0
	2009	6.0	23.9	-	*	69.9	81.3	6.0	93.8	81.3
	2010	8.8	37.8	-	*	60.4	67.8	8.8	98.2	67.8
	2011	7.2	43.5	-	*	96.3	104.7	7.2	139.8	104.7
	2012	13.9	50.8	-	*	107.0	114.6	13.9	157.7	114.6
	2013	8.6	48.0	-	*	93.1	106.7	8.6	141.0	106.7
	2014	12.3	50.2	-	*	81.3	92.7	12.3	131.5	92.7
All Gear	2005	60.3	52.6	0.3	3.9	94.9	104.2	64.3	147.5	104.4
	2006	68.2	62.1	0.2	6.2	105.8	113.8	74.4	167.9	114.1
	2007	77.8	61.0	0	5.8	104.3	99.6	83.7	165.4	99.6
	2008	93.5	71.2	0.3	9.4	119.9	121.7	102.9	191.1	122.0
	2009	69.3	48.7	*	5.4	77.8	83.0	74.7	126.5	83.0
	2010	83.3	66.6	*	7.0	71.2	70.7	90.3	137.8	70.7
	2011	116.2	86.1	*	12.3	111.7	108.7	128.6	197.8	108.7
	2012	114.9	89.4	*	15.4	117.5	118.3	130.3	206.9	118.3
	2013	77.1	71.9	*	11.7	101.2	109.9	88.8	173.2	109.9
	2014	90.3	77.2	-	17.0	89.0	95.0	107.4	166.2	95.0

**Notes:** These estimates include only catch counted against federal TACs. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch-Accounting System and At-Sea Production Report, Alaska Commercial Fisheries Entry Commission (CFEC) fish tickets, ADF&G COAR production data (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 21.B: Ex-vessel value per catcher vessel for Alaska groundfish delivered to shoreside processors by area, gear and catcher-vessel length, 2005 - 2014 ; calculations based on CFEC fish tickets (\$ thousands)

	Year	Gulf of Alaska			Bering Sea & Aleutian Islands			All Alaska		
		<60	60-125	>=125	<60	60-125	>=125	<60	60-125	>=125
Fixed	2005	59	204	55	60	174	125	62	235	143
	2006	61	245	60	96	210	296	65	295	316
	2007	67	283	9	81	282	222	71	339	224
	2008	75	315	75	120	271	376	82	376	369
	2009	62	256	*	78	168	210	66	275	187
	2010	72	303	*	103	227	320	77	345	288
	2011	98	463	*	171	275	497	109	496	442
	2012	91	471	*	241	230	403	104	464	363
	2013	74	324	*	149	174	358	84	328	358
	2014	83	385	-	334	185	255	100	374	255
Trawl	2005	266	554	-	*	1,180	3,934	266	1,218	3,934
	2006	279	641	-	*	1,285	4,241	279	1,305	4,241
	2007	286	644	-	*	1,222	3,728	286	1,321	3,728
	2008	432	866	*	*	1,477	4,213	432	1,590	4,213
	2009	213	542	-	*	1,043	3,011	213	1,103	3,011
	2010	352	879	-	*	974	2,513	339	1,227	2,513
	2011	300	966	-	*	1,395	3,878	300	1,704	3,878
	2012	578	1,080	-	*	1,646	4,094	578	1,923	4,094
	2013	332	1,090	-	*	1,432	3,953	332	1,720	3,953
	2014	454	1,167	-	*	1,332	3,434	454	1,623	3,434
All Gear	2005	66	327	55	56	708	2,541	69	633	2,547
	2006	67	381	60	92	790	2,995	72	724	3,001
	2007	74	402	9	74	809	2,621	78	738	2,622
	2008	85	494	60	113	922	3,203	92	889	3,129
	2009	67	358	*	71	689	2,371	72	639	2,305
	2010	80	501	*	97	648	1,964	85	726	1,911
	2011	104	648	*	169	893	3,105	114	1,014	3,019
	2012	103	709	*	223	1,059	3,196	116	1,118	3,112
	2013	83	626	*	145	904	3,054	92	978	3,054
	2014	95	702	-	321	865	2,639	111	972	2,639

**Notes:** These estimates include only catch counted against federal TACs. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch-Accounting System and At-Sea Production Report; Alaska Commercial Fisheries Entry Commission (CFEC) fish tickets, ADF&G COAR production data (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

## A.2. Expanded Economic Data Tables for Rockfish Ex-vessel Sector

Table 22.B: Ex-vessel value of the groundfish catch off Alaska by area, residency, and species, 2010 - 2014 ; calculations based on CFEC fish tickets (\$ millions).

	Year	Gulf of Alaska		Bering Sea & Aleutian Islands		All Alaska	
		Alaska	Other	Alaska	Other	Alaska	Other
Pollock	2010	13.3	14.4	47.2	205.1	60.5	219.5
	2011	11.9	16.3	55.7	318.1	67.6	334.3
	2012	15.6	22.7	60.1	354.7	75.7	377.4
	2013	13.0	22.1	60.1	351.3	73.1	373.4
	2014	15.1	23.6	51.6	309.6	66.7	333.2
Sablefish	2010	46.2	37.6	2.4	7.9	48.5	45.5
	2011	67.3	54.7	7.3	10.3	74.6	65.0
	2012	58.4	48.3	3.0	7.7	61.4	55.9
	2013	40.4	32.5	4.1	5.2	44.6	37.7
	2014	44.7	34.1	1.9	3.7	46.6	37.8
Pacific Cod	2010	29.2	14.1	27.6	75.1	56.8	89.1
	2011	42.4	15.4	25.8	79.8	68.2	95.2
	2012	42.7	14.0	26.7	87.7	69.4	101.8
	2013	25.6	11.7	39.4	110.8	65.0	122.6
	2014	36.0	13.4	27.0	76.8	63.1	90.2
Flatfish	2010	2.2	3.8	20.6	53.0	22.8	56.7
	2011	1.8	4.8	8.2	94.8	10.0	99.6
	2012	1.4	4.2	1.3	116.4	2.8	120.6
	2013	1.6	5.5	5.3	91.1	6.9	96.6
	2014	1.8	7.0	5.2	86.6	7.0	93.5
Rockfish	2010	3.3	7.2	0.3	10.8	3.6	18.0
	2011	2.2	10.8	0.5	20.2	2.7	30.9
	2012	4.1	12.1	0.1	17.0	4.2	29.1
	2013	3.5	7.7	0.2	15.8	3.7	23.5
	2014	3.0	8.9	0.1	16.2	3.2	25.1
Atka Mackerel	2010	0.1	0.6	0	29.8	0.1	30.4
	2011	0	0.8	0	29.2	0	30.0
	2012	0	0.6	0	30.1	0	30.6
	2013	0	0.7	0	16.0	0	16.6
	2014	0	0.8	0	21.7	0	22.5
All Groundfish	2010	95.4	78.5	98.6	383.6	194.0	462.1
	2011	127.1	104.0	98.0	554.1	225.2	658.1
	2012	123.9	103.2	92.8	616.9	216.7	720.0
	2013	85.4	81.6	110.2	593.5	195.6	675.1
	2014	102.0	88.4	86.2	516.3	188.2	604.7

**Notes:** These estimates include only catches counted against federal TACs. Ex-vessel value is calculated using prices on Table 18b. Please refer to Table 18b for a description of the price derivation. Catch delivered to motherships is classified by the residence of the owner of the mothership. All other catch is classified by the residence of the owner of the fishing vessel. All groundfish include additional species categories. For catch for which the residence is unknown, there are either no data or the data have been suppressed to preserve confidentiality.

**Source:** NMFS Alaska Region Catch Accounting System, Alaska Commercial Fisheries Entry Commission (CFEC) fish tickets, At-Sea Production Report (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 23.B: Ex-vessel value of groundfish delivered to shoreside processors by processor group, 2009 - 2014 ; calculations based on CFEC fish tickets (\$ millions)

Region	2009	2010	2011	2012	2013	2014
Bering Sea Pollock	174.3	172.5	247.7	262.8	230.2	214.4
AK Peninsula/Aleutians	10.1	5.7	12.0	19.7	14.9	13.6
Kodiak	42.3	60.1	79.0	87.7	68.8	80.2
South Central	25.7	26.8	44.3	36.5	26.0	28.4
Southeastern	28.6	31.2	41.9	39.9	26.2	28.1
All Regions	281.0	296.4	424.9	446.5	366.1	364.6

Table 24.B: Ex-vessel value of groundfish as a percentage of the ex-vessel value of all species delivered to shoreside processors by processor group, 2009 - 2014 ; calculations based on CFEC fish tickets (percent)

Region	2009	2010	2011	2012	2013	2014
Bering Sea Pollock	61.4	58.2	59.2	64.2	63.3	66.3
AK Peninsula/Aleutians	5.4	2.6	4.4	7.2	5.8	5.0
Kodiak	37.1	45.6	43.7	49.2	41.5	54.6
South Central	16.7	9.4	17.0	15.6	9.7	14.4
Southeastern	15.6	13.7	13.9	15.4	8.2	12.2
All Regions	30.5	25.6	29.6	32.9	26.7	31.2

**Notes:** These tables include the value of groundfish purchases reported by processing plants, as well as by other entities, such as markets and restaurants, that normally would not report sales of groundfish products. Keep this in mind when comparing ex-vessel values in this table to gross processed-product values in Table 34. The data are for catch from both federal and state of Alaska fisheries. The processor groups are defined as follows: "Bering Sea Pollock" are the AFA inshore pollock processors including the two AFA floating processors. "AK Peninsula/Aleutian" are other processors on the Alaska Peninsula or in the Aleutian Islands. "Kodiak" are processors on Kodiak Island. "South Central" are processors west of Yakutat and on the Kenai Peninsula. "Southeastern" are processors located from Yakutat south.

**Source:** Alaska Commercial Fisheries Entry Commission (CFEC) fish tickets, ADFG intent to process (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table R1: Rockfish retained catch off Alaska by area, gear, and species, 2005-2014 (100 metric tons, round weight).

	Species	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
GOA	Northern	*	0.02	0.01	0.01	0.00	0.00	*	*	0.00	0.00
	Other	2.89	3.03	3.38	3.56	3.45	3.08	2.46	2.84	3.02	1.67
	Popa	0.13	0.01	0.00	*	*	0.00	0.00	*	*	0.00
	FIX Rougheye	1.15	1.45	1.34	1.36	1.03	1.14	1.12	1.24	1.17	1.00
	Shortraker	1.61	1.71	1.59	1.93	1.51	1.53	1.22	1.66	1.34	1.25
	Dusky	0.39	0.19	0.35	0.19	0.11	0.10	0.14	0.12	0.25	0.19
	Thornyhead	3.19	3.87	3.70	3.30	3.20	3.15	3.23	4.25	4.85	4.69
	Northern	43.20	45.03	40.83	38.69	38.30	38.42	33.10	49.49	46.79	41.13
	Other	3.61	2.37	3.08	2.23	2.97	2.66	3.06	4.17	1.71	5.13
	TWL Popa	105.97	125.27	124.71	119.48	120.98	149.69	132.87	141.94	121.77	159.88
	Rougheye	1.21	1.19	1.42	1.40	1.21	2.30	3.42	3.56	3.26	5.10
	Shortraker	2.60	3.40	3.46	2.91	2.49	1.73	3.05	3.01	2.73	3.17
	Dusky	21.07	22.51	32.58	35.67	29.89	29.82	24.44	38.39	29.69	29.46
	Thornyhead	3.33	2.97	3.68	3.18	2.52	1.79	2.14	1.41	1.99	4.61
BSAI	Northern	0.01	0.01	0.00	*	0.11	0.67	0.01	0.05	0.03	0.02
	Other	1.39	1.67	1.28	1.21	1.67	1.99	1.48	1.71	1.42	1.17
	FIX Popa	0.00	*	0.04	*	0.00	0.01	0.01	0.01	0.00	0.03
	Rougheye	0.04	0.09	0.23	0.28	0.21	0.28	0.09	0.22	0.04	0.01
	Shortraker	0.40	0.49	0.30	0.24	0.37	0.73	0.36	0.33	0.12	0.13
	Northern	9.56	10.74	8.73	15.31	19.71	32.87	26.07	20.49	18.13	21.88
	Other	1.92	2.00	2.27	2.91	2.59	3.85	6.02	6.19	4.66	5.98
	TWL Popa	87.27	106.20	155.55	169.58	144.74	173.35	232.68	233.42	308.39	313.82
	Rougheye	0.71	1.63	1.11	1.21	1.44	1.64	1.35	1.45	2.59	1.74
	Shortraker	0.89	0.81	1.32	0.78	0.99	1.57	2.63	2.57	2.49	0.93

**Notes:** These estimates include only catch counted against federal TACs. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch Accounting System estimates (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table R2: Real ex-vessel value of the catch rockfish off Alaska by area, gear, and species, 2005-2014; calculations based on COAR (\$1,000, base year = 2014).

	Species	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	
GOA	Northern	*	2.5	1.7	0.3	0.2	0.3	*	*	0.0	0.2	
	Other	604.5	599.4	670.8	762.8	677.0	562.3	526.5	818.1	781.7	452.3	
	Popa	1.9	1.6	0.5	*	*	0.1	0.3	*	*	0.1	
	FIX	Rougheye	83.8	120.7	115.9	102.5	84.0	91.2	92.2	117.5	93.6	87.6
	Shortraker	150.1	138.8	125.7	166.1	116.4	118.7	105.8	184.6	131.3	138.2	
	Dusky	24.9	16.4	18.9	13.4	6.7	5.9	10.2	11.3	19.6	19.0	
	Thornyhead	578.5	779.2	756.4	695.4	615.0	615.8	649.8	859.3	1,037.5	872.0	
	TWL	Northern	992.7	1,559.8	1,446.9	1,482.9	733.5	1,010.1	1,079.3	2,873.5	2,087.0	1,595.2
Other		85.2	83.0	112.3	86.8	63.2	75.5	100.2	242.0	77.1	185.8	
Popa		2,450.1	4,394.5	4,558.9	4,344.2	2,194.9	4,013.5	4,579.8	8,316.0	5,583.6	6,423.9	
FIX		Rougheye	33.3	50.2	59.2	56.4	32.6	67.9	120.6	201.6	151.4	209.5
Shortraker		75.2	129.6	128.1	119.6	56.8	53.6	110.8	173.7	126.5	129.9	
Dusky		489.5	775.8	1,162.5	1,380.7	779.5	836.5	824.6	2,227.2	1,313.0	1,149.1	
Thornyhead		131.7	162.1	195.5	186.6	111.3	116.4	138.0	132.0	157.2	385.2	
BSAI		Northern	1.5	0.8	0.2	*	22.0	133.5	2.0	7.6	7.1	2.1
	Other	221.6	269.4	178.6	221.4	341.8	400.1	244.3	261.9	311.0	165.1	
	FIX	Popa	0.1	*	5.3	*	0.4	1.3	1.1	0.8	4.4	
	Rougheye	5.6	13.1	30.1	44.9	40.7	53.9	6.7	29.7	6.7	0.9	
	Shortraker	64.1	74.4	41.0	39.2	72.1	139.2	55.4	49.2	24.1	15.7	
	TWL	Northern	342.7	392.5	440.4	412.0	546.5	1,270.8	1,675.8	1,035.8	555.2	1,004.4
		Other	185.1	157.7	180.6	273.9	150.7	344.1	632.1	539.3	444.4	735.5
		Popa	4,731.1	6,153.5	6,838.4	6,346.5	5,600.4	8,881.9	17,874.8	14,928.8	14,318.4	17,171.7
Rougheye		45.1	92.8	47.0	60.2	84.3	90.8	85.2	88.5	117.5	93.7	
Shortraker	53.2	72.2	47.5	77.0	71.9	141.5	326.9	279.5	217.0	83.1		

**Notes:** These estimates include the value of catch from both federal and state of Alaska fisheries. The data have been adjusted to 2014 dollars by applying the Producer Price Index for unprocessed and packaged fish (series number WPU0223) from the Bureau of Labor Statistics at: <http://data.bls.gov/cgi-bin/srgate>.

**Source:** NMFS Alaska Region Blend and Catch-Accounting System estimates, At-Sea Production Reports, Commercial Operators Annual Reports (COAR), Fisheries of the United States (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table R3: Ex-vessel prices of rockfish off Alaska by area, gear, and species, 2005-2014; calculations based on COAR (\$/lb, round weight).

	Species	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
GOA	Northern	*	0.70	0.70	0.21	0.30	0.50	*	*	0.36	0.26
	Other	0.95	0.90	0.90	0.97	0.89	0.83	0.97	1.30	1.17	1.23
	FIX Popa	0.06	0.60	0.71	*	*	0.67	0.50	*	*	0.64
	FIX Rougheye	0.33	0.38	0.39	0.34	0.37	0.36	0.38	0.43	0.36	0.40
	Shortraker	0.42	0.37	0.36	0.39	0.35	0.35	0.39	0.50	0.44	0.50
	Dusky	0.29	0.40	0.24	0.33	0.29	0.27	0.32	0.42	0.36	0.44
	Thornyhead	0.82	0.91	0.93	0.96	0.87	0.89	0.91	0.92	0.97	0.84
	TWL	Northern	0.10	0.16	0.16	0.17	0.09	0.12	0.15	0.26	0.20
Other		0.11	0.16	0.16	0.18	0.10	0.13	0.15	0.26	0.20	0.16
FIX Popa		0.10	0.16	0.17	0.16	0.08	0.12	0.16	0.27	0.21	0.18
FIX Rougheye		0.12	0.19	0.19	0.18	0.12	0.13	0.16	0.26	0.21	0.19
Shortraker		0.13	0.17	0.17	0.19	0.10	0.14	0.16	0.26	0.21	0.19
Dusky		0.10	0.16	0.16	0.18	0.12	0.13	0.15	0.26	0.20	0.18
Thornyhead		0.18	0.25	0.24	0.27	0.20	0.30	0.29	0.43	0.36	0.38
BSAI		Northern	0.73	0.72	0.32	*	0.92	0.90	0.74	0.69	0.97
	Other	0.72	0.73	0.63	0.83	0.93	0.91	0.75	0.69	0.99	0.64
	FIX Popa	0.74	*	0.63	*	0.92	0.90	0.74	0.69	0.98	0.62
	FIX Rougheye	0.66	0.68	0.60	0.73	0.88	0.88	0.35	0.62	0.82	0.48
	Shortraker	0.73	0.69	0.61	0.75	0.89	0.86	0.71	0.67	0.91	0.54
	TWL	Northern	0.16	0.17	0.23	0.12	0.13	0.18	0.29	0.23	0.14
Other		0.44	0.36	0.36	0.43	0.26	0.41	0.48	0.40	0.43	0.56
FIX Popa		0.25	0.26	0.20	0.17	0.18	0.23	0.35	0.29	0.21	0.25
FIX Rougheye		0.29	0.26	0.19	0.23	0.27	0.25	0.29	0.28	0.21	0.24
Shortraker		0.27	0.40	0.16	0.45	0.33	0.41	0.56	0.49	0.40	0.40

**Notes:** 1) Prices are for catch from both federal and state of Alaska fisheries.

3) Trawl-caught rockfish in the BSAI and trawl-caught are not well represented by on-shore landings. A price was calculated for these categories from product-report prices; the price in this case is the value of the product divided by the calculated round weight and multiplied by a constant 0.4 to correct for value added by processing.

4) The “All Alaska/All gear” column is the weighted average of the other columns.

“\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** NMFS Alaska Region Catch Accounting System, Commercial Operators Annual Report (COAR), At-Sea Production Reports, (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.



Table R4: Number of vessels that caught rockfish off Alaska by area, gear, and species,2005-2014.

	Species	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
GOA	Northern	3	6	5	4	4	6	2	2	5	8
	Other	45	66	66	61	64	57	63	50	50	54
	Popa	5	5	4	2	3	5	5	3	3	4
	FIX Rougheye	42	49	48	46	41	37	39	40	37	34
	Shortraker	39	43	47	41	37	37	39	33	34	32
	Dusky	20	24	27	25	25	23	25	28	26	24
	Thornyhead	48	56	51	46	47	42	44	42	42	38
	Northern	21	17	19	21	24	24	26	24	25	22
	Other	18	15	16	18	23	23	24	25	22	20
	Popa	26	21	24	25	28	30	30	30	26	23
	TWL Rougheye	19	18	20	19	25	27	25	26	18	21
	Shortraker	18	19	14	17	21	23	24	22	16	19
	Dusky	25	21	23	23	25	27	26	27	24	20
	Thornyhead	22	21	22	20	25	28	25	25	18	19
BSAI	Northern	9	8	10	2	6	9	9	8	12	12
	Other	28	32	24	24	26	41	36	28	27	27
	FIX Popa	6	2	6	3	6	10	10	7	9	14
	Rougheye	20	17	15	14	14	27	14	17	18	13
	Shortraker	19	16	19	20	24	30	22	22	18	20
	Northern	29	32	34	26	30	29	38	31	29	30
	Other	40	36	40	40	34	33	42	41	34	32
	TWL Popa	42	42	42	40	40	38	43	41	39	38
	Rougheye	23	23	26	24	20	19	26	25	18	25
	Shortraker	19	23	29	27	23	21	31	26	18	23

**Notes:** These estimates include only vessels fishing federal TACs. Based on federal permit files.

**Source:** NMFS Alaska Region Blend estimates, Catch Accounting System, fish tickets, observer data, federal permit file, CFEC vessel data (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

### A.3. Expanded Economic Data Tables for Fishmeal

Table R2: Gross wholesale value of groundfish fishmeal products in the fisheries off Alaska by species, region and sector, 2010-2014, (million dollars).

	Year	Gulf of Alaska	Bering Sea & Aleutian Islands	
		Shoreside	At-sea	Shoreside
Pollock	2010	*	27.68	32.63
	2011	0.13	39.29	43.09
	2012	*	40.04	38.75
	2013	*	40.67	52.22
	2014	*	50.20	46.98
Pacific cod	2010	0.07	0.66	1.21
	2011	0.02	0.90	1.50
	2012	0.00	0.44	0.39
	2013	*	0.82	1.55
	2014	0.09	0.64	3.62
Flatfish	2010	0.15	3.08	1.27
	2011	0.04	3.02	1.10
	2012	*	2.14	0.69
	2013	*	3.93	1.05
	2014	*	2.25	0.58
Other	2010	0.00	0.18	0.16
	2011	0.00	0.20	0.07
	2012	*	0.17	0.26
	2013	*	0.24	0.08
	2014	*	0.30	0.23

**Notes:** Fishmeal in this table are provided as preliminary for the Sept. draft. The reported data use federal shoreside and at-sea production reports, which may exclude some primary fishmeal production. Because of these tables may under report fishmeal production and value. Efforts are currently under way to reconcile these data with the landing report which will be complete when this report is finalized in November. Species in “Other” include sablefish, atka mackerel, rockfish, skate, squid, octopus, shark, and sculpin. These estimates are for catch from both federal and state of Alaska fisheries. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** At-sea and shoreside production reports and commercial operators annual report. National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table R3: Wholesale production of groundfish fishmeal products in the fisheries off Alaska by species, region and sector, 2010-2014, (1,000 metric tons product weight).

	Year	Gulf of Alaska	Bering Sea & Aleutian Islands	
		Shoreside	At-sea	Shoreside
Pollock	2010	*	14.64	23.67
	2011	0.11	22.58	30.23
	2012	*	21.08	31.44
	2013	*	20.98	32.89
	2014	*	23.25	33.60
Pacific cod	2010	0.05	0.40	0.85
	2011	0.01	0.58	0.96
	2012	0.00	0.48	1.04
	2013	*	0.47	1.02
	2014	0.14	0.49	2.49
Flatfish	2010	0.12	1.48	0.98
	2011	0.02	1.66	0.68
	2012	*	1.23	0.84
	2013	*	1.38	0.37
	2014	*	1.08	0.28
Other	2010	0.00	0.14	0.13
	2011	0.00	0.14	0.08
	2012	*	0.11	0.33
	2013	*	0.13	0.06
	2014	*	0.15	0.19

**Notes:** Fishmeal in this table are provided as preliminary for the Sept. draft. The reported data use federal shoreside and at-sea production reports, which may exclude some primary fishmeal production. Because of these tables may under report fishmeal production and value. Efforts are currently under way to reconcile these data with the landing report which will be complete when this report is finalized in November. Species in “Other” include sablefish, atka mackerel, rockfish, skate, squid, octopus, shark, and sculpin. These estimates are for catch from both federal and state of Alaska fisheries. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** At-sea and shoreside production reports and commercial operators annual report. National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table R4: Wholesale price per pound of groundfish fishmeal products in the fisheries off Alaska by species, region and sector, 2010-2014, (dollars).

	Year	Gulf of Alaska	Bering Sea & Aleutian Islands	
		Shoreside	At-sea	Shoreside
Pollock	2010	*	0.86	0.63
	2011	0.53	0.79	0.65
	2012	*	0.86	0.56
	2013	*	0.88	0.72
	2014	*	0.98	0.63
Pacific cod	2010	0.65	0.75	0.65
	2011	0.71	0.70	0.71
	2012	0.77	0.42	0.17
	2013	*	0.79	0.69
	2014	0.29	0.59	0.66
Flatfish	2010	0.56	0.94	0.59
	2011	0.74	0.83	0.74
	2012	*	0.79	0.37
	2013	*	1.29	1.30
	2014	*	0.95	0.92
Other	2010	0.68	0.56	0.57
	2011	0.62	0.65	0.39
	2012	*	0.69	0.36
	2013	*	0.84	0.61
	2014	*	0.92	0.54

**Notes:** Fishmeal in this table are provided as preliminary for the Sept. draft. The reported data use federal shoreside and at-sea production reports, which may exclude some primary fishmeal production. Because of these tables may under report fishmeal production and value. Efforts are currently under way to reconcile these data with the landing report which will be complete when this report is finalized in November. Species in “Other” include sablefish, atka mackerel, rockfish, skate, squid, octopus, shark, and sculpin. These estimates are for catch from both federal and state of Alaska fisheries. Prices based on confidential data have been excluded. “\*” indicates a confidential value; “-” indicates no applicable data or value.

**Source:** At-sea and shoreside production reports and Commercial Operators Annual Reports (COAR) (housed at the Alaska Fisheries Information Network (AKFIN)). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

#### A.4. Supplementary Data Tables

Table E.1: Global capture production and value of whitefish (cods, hakes, haddocks) 2009 - 2013 (1,000 metric tons product weight and million dollars)

Data	2009	2010	2011	2012	2013
Production	6952	7436	7412	7699	8156
Value	6036	7125	8308	7526	-

**Notes:** Production and Value include capture and aquaculture.

**Source:** FAO. 2015. Fishery and Aquaculture Statistics. Global capture production 1950-2013 (FishStatJ). Yearbook of Fishery Statistics Summary tables, Appendix II - World fishery production: estimated value by groups of species (2006-2012); <ftp://ftp.fao.org/FI/STAT/summary/appIIybc.pdf>

Table E.2: Quantities and value of groundfish exports originating from Alaska and Washington by species (group), destination country, and product type 2011 - 2015 (through June 2015) (1,000 metric tons product weight and million dollars).

	Product	2011		2012		2013		2014		2015		
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
Japan	Frozen Fillet	0.19	\$ 0.44	0.23	\$ 0.42	1.75	\$ 4.97	3.5	\$ 6.13	0.31	\$ 0.62	
	Frozen Surimi	0.31	\$ 0.75	0.14	\$ 0.32	0.9	\$ 2.81	0.28	\$ 0.66	0.47	\$ 1.28	
	Roe	53.97	\$ 115.33	67.6	\$ 159.7	56.23	\$ 115.84	71.89	\$ 156.83	37.08	\$ 85.21	
	Frozen Meat	8.03	\$ 56.24	7.62	\$ 46.83	6.54	\$ 42.54	11.21	\$ 67.72	10.35	\$ 71.49	
	Frozen Meat	-	\$ -	-	\$ -	-	\$ -	0.61	\$ 3.25	0.18	\$ 1	
Alaska Pollock	Frozen Fillet	25.02	\$ 63.22	24.15	\$ 53.91	43.38	\$ 89.34	48.31	\$ 102.69	23.35	\$ 49.34	
	Frozen Surimi	11.31	\$ 27.43	8.87	\$ 22.38	5.06	\$ 11.8	5.2	\$ 13.41	2.21	\$ 5.65	
	Roe	3.08	\$ 6.73	1.43	\$ 3.07	3.3	\$ 6.61	3.07	\$ 6.85	1.8	\$ 4.68	
	Frozen Meat	0.31	\$ 1.72	0.55	\$ 4.55	0.9	\$ 6.19	0.75	\$ 5.05	0.5	\$ 3.83	
	Frozen Meat	-	\$ -	-	\$ -	0.09	\$ 0.17	0.32	\$ 1.13	0.05	\$ 0.22	
South Korea	Frozen Fillet	1.85	\$ 3.66	0.86	\$ 1.71	2.59	\$ 4.72	6.1	\$ 11.01	6.16	\$ 10.59	
	Frozen Surimi	3.37	\$ 7.08	1.6	\$ 4	0.85	\$ 1.73	0.84	\$ 2.06	0.64	\$ 1.26	
	Roe	41.54	\$ 120.49	44.95	\$ 144.18	61.41	\$ 156.44	56.85	\$ 143.61	23.63	\$ 60.08	
	Frozen Meat	9.2	\$ 100.42	7.56	\$ 64.94	7.41	\$ 64.55	9.79	\$ 79.91	8.6	\$ 70.36	
	Frozen Meat	-	\$ -	0.95	\$ 1.76	0.04	\$ 0.1	0.24	\$ 0.51	0.08	\$ 0.23	
Germany	Frozen Fillet	3.94	\$ 14.72	23.77	\$ 74.58	4.44	\$ 12.35	2.43	\$ 7.13	0.14	\$ 0.49	
	Frozen Surimi	52.54	\$ 169	37.35	\$ 119.99	66.9	\$ 200.35	81.38	\$ 237.67	27.34	\$ 75.83	
	Roe	6.15	\$ 11.34	8.52	\$ 18.69	10.41	\$ 20.89	5.61	\$ 11.28	2.28	\$ 4.33	
	Frozen Meat	-	\$ -	0.02	\$ 0.1	-	\$ -	-	\$ -	-	\$ -	
	Frozen Meat	-	\$ -	0.27	\$ 0.53	0.33	\$ 0.81	2.99	\$ 6.67	0.48	\$ 1.2	

Continued on next page.

Table E.2: Continued

		2011		2012		2013		2014		2015		
Product		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
Alaska Pollock	Frozen	0.02	\$ 0.04	1.54	\$ 4.08	0.81	\$ 1.75	1.53	\$ 3.21	0.64	\$ 1.86	
	Fillet											
	Frozen	31.54	\$ 100.69	21.57	\$ 67.41	25.38	\$ 75.49	24.69	\$ 71.53	8.76	\$ 26.51	
	Surimi	4.42	\$ 11.29	4.47	\$ 13.76	2.35	\$ 6.11	2.67	\$ 6.5	0.94	\$ 2.34	
	Roe											
	Frozen	0	\$ 0.06	-	\$ -	-	\$ -	-	\$ -	0	\$ 0.01	
	Meat											
	Frozen	-	\$ -	0	\$ 0.01	0.14	\$ 0.27	0.21	\$ 0.47	-	\$ -	
	Sablefish	Frozen	7.99	\$ 20.43	11.24	\$ 27.26	10.74	\$ 26.04	7.82	\$ 18.85	0.72	\$ 1.59
Fillet												
Frozen		14.32	\$ 41.43	9.95	\$ 29.43	14.23	\$ 41.37	18.05	\$ 51.16	5.65	\$ 14.14	
Surimi		23.47	\$ 49.19	23.97	\$ 55.3	25.74	\$ 53.7	20.61	\$ 45.09	6.38	\$ 14.61	
Roe												
Frozen		-	\$ -	0.15	\$ 1.45	0.11	\$ 0.96	0.01	\$ 0.11	-	\$ -	
Meat												
Frozen		-	\$ -	3.47	\$ 12.47	3.29	\$ 7.85	4.57	\$ 11.59	2.29	\$ 4.93	
Japan		Frozen	8.53	\$ 67	6.39	\$ 68.18	5.79	\$ 60.93	4.32	\$ 50.92	2.22	\$ 23.63
	Fresh	0.9	\$ 8.19	0.92	\$ 8.9	0.5	\$ 5.6	0.15	\$ 1.75	0.1	\$ 1.32	
China	Frozen	0.9	\$ 6.93	0.67	\$ 6.3	0.53	\$ 6.89	0.47	\$ 7.42	0.24	\$ 4.32	
	Fresh	0.39	\$ 3.27	0.47	\$ 4.28	0.27	\$ 3.16	0.1	\$ 0.8	0.05	\$ 0.53	
South Korea	Frozen	0.08	\$ 0.53	0.14	\$ 1.09	0.04	\$ 0.46	0.04	\$ 0.57	0.04	\$ 0.55	
	Fresh	-	\$ -	0.02	\$ 0.1	0.01	\$ 0.17	-	\$ -	-	\$ -	
Germany	Frozen	0.03	\$ 0.23	0.03	\$ 0.26	0.01	\$ 0.19	0.01	\$ 0.18	0.02	\$ 0.34	
	Fresh	-	\$ -	-	\$ -	-	\$ -	0	\$ 0.03	-	\$ -	
Nether- lands	Frozen	0.02	\$ 0.25	0.01	\$ 0.08	0.05	\$ 0.48	0.07	\$ 0.83	0.04	\$ 0.54	
	Fresh	0.03	\$ 0.26	-	\$ -	0.02	\$ 0.03	-	\$ -	-	\$ -	
Other	Frozen	1.15	\$ 9.07	0.87	\$ 8.67	0.85	\$ 11.54	0.65	\$ 10.11	0.37	\$ 5.92	
	Fresh	0.26	\$ 1.56	0.15	\$ 1.25	0.08	\$ 0.87	0.13	\$ 1.25	0.04	\$ 0.33	

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Table E.2: Continued

	Product	2011		2012		2013		2014		2015	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Cod NSPF	Frozen	12.46	\$ 41.9	14.62	\$ 50.43	10.75	\$ 33.94	16.29	\$ 47.42	5.46	\$ 16.8
	Fillet	3.91	\$ 16.07	0.47	\$ 1.43	0.06	\$ 0.18	0.05	\$ 0.16	0.05	\$ 0.11
	Frozen	0.97	\$ 2.75	0.17	\$ 0.53	0.16	\$ 0.55	0.05	\$ 0.17	-	\$ -
	Fresh	-	\$ -	0.01	\$ 0.02	0.13	\$ 0.32	-	\$ -	0.07	\$ 0.18
	Salted   Dried	0.02	\$ 0.05	0.06	\$ 0.13	0.02	\$ 0.05	0.08	\$ 0.12	-	\$ -
	Minced	30.28	\$ 97.06	40.37	\$ 125.39	46.77	\$ 136.19	55.16	\$ 154.06	39.56	\$ 112.03
	Frozen	1.52	\$ 5.79	4.24	\$ 13.2	0.98	\$ 3.87	0.76	\$ 3.04	1.46	\$ 4.12
	Fillet	10.65	\$ 30.89	4.71	\$ 14.15	0.19	\$ 0.53	0.03	\$ 0.08	0.02	\$ 0.07
	Frozen	0.53	\$ 1.49	1.57	\$ 4.03	2.52	\$ 6.03	1.33	\$ 3.29	0.72	\$ 1.9
	Fresh	0.06	\$ 0.14	0.1	\$ 0.18	0.02	\$ 0.06	-	\$ -	-	\$ -
South Korea	Frozen	4.35	\$ 13.1	4.61	\$ 13.7	7.69	\$ 21.38	5.33	\$ 12.22	6.85	\$ 17.17
	Fillet	1.19	\$ 3.29	0.05	\$ 0.11	-	\$ -	0.07	\$ 0.14	0.04	\$ 0.1
	Frozen	1.41	\$ 4.12	0.85	\$ 2.46	-	\$ -	0.05	\$ 0.08	0.02	\$ 0.05
	Fresh	-	\$ -	0.94	\$ 2.73	0.28	\$ 0.68	0.04	\$ 0.08	1.97	\$ 5.5
	Salted   Dried	0.18	\$ 0.34	0.04	\$ 0.07	-	\$ -	-	\$ -	0.02	\$ 0.07
Germany	Minced	3.55	\$ 12.73	3.04	\$ 11.01	2.85	\$ 9.04	2.89	\$ 10.19	1.4	\$ 4.51
	Frozen	0.14	\$ 0.54	0.05	\$ 0.18	0.03	\$ 0.07	-	\$ -	0.01	\$ 0.04

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Table E.2: Continued

		2011		2012		2013		2014		2015		
Product		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
Cod NSPF	Netherlands	Frozen	7.43	\$ 25.72	6.15	\$ 19.93	5.01	\$ 16.15	6.21	\$ 20.96	3.05	\$ 9.35
		Fillet	0.02	\$ 0.06	0.1	\$ 0.37	0.22	\$ 0.81	0.22	\$ 0.65	0.02	\$ 0.09
		Fresh	0.21	\$ 0.37	0.02	\$ 0.04	-	\$ -	-	\$ -	-	\$ -
	Other	Frozen	20.6	\$ 77.26	18.73	\$ 66.2	16.49	\$ 51.74	11.53	\$ 37.27	8.73	\$ 26.29
		Fillet	2.95	\$ 15.08	4.84	\$ 20.9	1.23	\$ 6.86	1.04	\$ 5.34	0.89	\$ 3.92
		Frozen	0.22	\$ 0.52	0.08	\$ 0.31	0.23	\$ 0.79	0.17	\$ 0.58	0.2	\$ 0.61
Fresh		0.18	\$ 0.34	0.39	\$ 1.17	0.51	\$ 1.45	2.44	\$ 6.58	0.59	\$ 1.75	
Salted   Dried Minced Frozen		0.08	\$ 0.17	-	\$ -	0.04	\$ 0.11	-	\$ -	0.05	\$ 0.1	
Yellowfin Sole	Japan	Frozen	-	\$ -	0.32	\$ 0.4	0.03	\$ 0.04	0.02	\$ 0.03	0.01	\$ 0.01
	China	Frozen	23.27	\$ 25.78	33.82	\$ 45.26	62.54	\$ 88.88	62.09	\$ 86.25	26.95	\$ 35.81
	South Korea	Frozen	10.18	\$ 12.47	10.58	\$ 13.09	9.38	\$ 12.77	10.02	\$ 12.26	6.01	\$ 7.39
	Other	Frozen	0.1	\$ 0.13	0.53	\$ 0.81	-	\$ -	0.01	\$ 0.01	-	\$ -
Flatfish NSPF	Japan	Frozen	6.2	\$ 9.95	2.44	\$ 3.92	3.95	\$ 7.54	5.27	\$ 9.81	1.75	\$ 3.06
		Fillet	-	\$ -	0.01	\$ 0.03	0	\$ 0.01	0	\$ 0.02	-	\$ -
		Frozen	0.94	\$ 1.46	0.36	\$ 0.58	-	\$ -	0	\$ 0.01	-	\$ -
		Fresh	-	\$ -	0	\$ 0.01	-	\$ -	-	\$ -	-	\$ -
	China	Frozen	22.29	\$ 35.37	16.47	\$ 28.1	34.56	\$ 57.74	38.4	\$ 64.56	21.89	\$ 33.71
		Fillet	-	\$ -	0.03	\$ 0.12	0.21	\$ 0.85	0.04	\$ 0.21	0.06	\$ 0.29
		Frozen Fresh	6.06	\$ 10.03	4.07	\$ 6.38	-	\$ -	0.01	\$ 0.07	0.02	\$ 0.04

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Table E.2: Continued

		2011		2012		2013		2014		2015		
Product		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
Flatfish NSPF	South Korea	Frozen	3.22	\$ 4.58	4.03	\$ 5.85	1.48	\$ 2.35	0.96	\$ 1.58	2.64	\$ 4.46
		Fillet	-	\$ -	0.06	\$ 0.24	0.26	\$ 0.97	0.22	\$ 0.65	-	\$ -
		Frozen	-	\$ -	0.06	\$ 0.24	0.26	\$ 0.97	0.22	\$ 0.65	-	\$ -
		Fresh	0.02	\$ 0.11	0.22	\$ 0.34	0.01	\$ 0.08	0.02	\$ 0.05	-	\$ -
	Netherlands	Frozen	-	\$ -	-	\$ -	0	\$ 0.01	-	\$ -	-	\$ -
		Frozen	6.37	\$ 7.72	0.76	\$ 0.97	0.75	\$ 1.24	0.68	\$ 1.47	0.09	\$ 0.18
	Other	Fillet	-	\$ -	0.02	\$ 0.15	0.03	\$ 0.13	0.05	\$ 0.27	0	\$ 0
		Frozen	-	\$ -	0.02	\$ 0.15	0.03	\$ 0.13	0.05	\$ 0.27	0	\$ 0
	Fresh	0	\$ 0.03	0.03	\$ 0.09	0.09	\$ 0.24	0.02	\$ 0.12	0	\$ 0.01	
	Fillet	-	\$ -	0.17	\$ 1.39	0.15	\$ 1.25	0.07	\$ 0.55	0.03	\$ 0.25	
	Fresh	-	\$ -	0.17	\$ 1.39	0.15	\$ 1.25	0.07	\$ 0.55	0.03	\$ 0.25	
Pac. Ocean Perch	Japan	Frozen	1.55	\$ 2.17	3.23	\$ 7.91	9.33	\$ 33.63	6.86	\$ 24.54	2.76	\$ 10.35
	China	Frozen	8.08	\$ 15.76	8.14	\$ 24.55	8.98	\$ 27.64	15.57	\$ 51.41	2.46	\$ 8.12
	South Korea	Frozen	0.74	\$ 1.21	1.41	\$ 4.06	1.4	\$ 4.44	0.92	\$ 2.7	0.5	\$ 1.22
	Other	Frozen	0.26	\$ 0.6	-	\$ -	0.1	\$ 0.17	0.05	\$ 0.13	0	\$ 0
Atka Mackerel	Japan	Frozen	12.18	\$ 16.63	11.45	\$ 24.7	7.79	\$ 21.69	12.63	\$ 35.07	10.19	\$ 28.28
	China	Frozen	6.83	\$ 9.26	5.86	\$ 11.2	2.5	\$ 6.95	3.74	\$ 10.4	2.8	\$ 7.79
	South Korea	Frozen	2.68	\$ 3.78	2.42	\$ 3.92	2.24	\$ 5.83	2.81	\$ 7.18	0.34	\$ 1.01
	Other	Frozen	-	\$ -	0.29	\$ 0.5	0.15	\$ 0.2	0.33	\$ 0.5	0.02	\$ 0.03

**Notes:** Totals for China include Taipei and Hong Kong. Totals for "FLATFISH NSPF" include species "TURBOT GREENLAND", "PLAICE" and "SOLE ROCK"

**Source:** NOAA Fisheries, Fisheries Statistics Division, Foreign Trade Division of the U.S. Census Bureau, <http://www.st.nmfs.noaa.gov/commercial-fisheries/foreign-trade/index>.

Table E.3: Monthly Employment of Seafood Processing Workers in Alaska, 2010 - 2015.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
2010	7100	8300	8600	7500	6600	11600	18900	16200	11100	6200	5000	3100	9200
2011	7300	9000	9400	8100	7200	13100	20400	18300	13400	7600	5600	3200	10200
2012	7700	9800	10300	8900	8200	13600	19500	16800	11400	7700	5700	3700	10300
2013	7600	9400	9600	9200	8300	13200	20400	17400	13100	8900	6600	4000	10600
2014	8700	10000	10000	10200	8200	14000	20900	17000	11500	6300	4600	3100	10400
2015	7400	8500	8600	8500	7000	12700	20300	-	-	-	-	-	-

**Notes:** Series code: 32311700.

**Source:** Alaska Department of Labor and Workforce Development, Research and Analysis Section, <http://live.laborstats.alaska.gov/ces/ces.cfm?at=01&a=000000&adj=0>.

Table E.4: Monthly Employment of Seafood Harvesting Workers in Alaska, 2008 - 2012.

	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
All Species	2008	2738	3138	4511	4445	5572	17022	20447	13634	8226	4202	2708	602
	2009	2527	2817	3126	4874	5693	17609	20076	13687	7148	4593	2388	507
	2010	2668	3060	4005	5255	5685	18878	23128	15287	7759	4992	2887	850
	2011	2898	3214	4010	4723	5610	20101	23813	15574	7916	5721	2303	849
	2012	2923	3409	4609	5402	6163	19237	24761	16191	6988	5453	2274	853
Groundfish	2008	2034	2135	2348	1714	1514	1736	1647	1817	2182	1494	805	90
	2009	1834	1811	1728	1746	1686	1592	1383	1596	1738	1420	567	111
	2010	1448	1690	1773	1716	1660	1436	1214	1518	1929	1230	589	196
	2011	1571	1767	2108	1935	1663	1622	1341	1586	2321	1938	628	465
	2012	1774	2052	2626	2099	1954	1924	1580	1735	2230	1878	765	437
Halibut	2008	3	0	1066	1260	1859	2284	1866	2345	1865	1004	590	0
	2009	0	0	372	1274	1802	1955	1501	2033	1727	1385	514	0
	2010	0	0	1002	1355	1895	1963	1735	2147	1685	1280	480	0
	2011	0	0	774	1134	1929	2066	1595	1820	1553	1162	374	0
	2012	0	0	614	969	1694	1936	1530	1941	1464	1241	297	0
Salmon	2008	126	145	286	500	1603	12383	16308	8924	4014	306	148	126
	2009	72	157	182	449	1353	13452	16611	9565	3420	370	171	163
	2010	155	296	358	635	1629	14938	19608	11153	3945	479	259	193
	2011	193	225	381	607	1640	15882	20344	11869	3894	704	265	174
	2012	104	220	404	635	1575	14467	21130	12066	3103	528	266	121

**Notes:** See original data source for details.

**Source:** Alaska Department of Labor and Workforce Development, Research and Analysis Section, <http://labor.alaska.gov/research/seafood/seafoodstatewide.htm>