

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, 2021

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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. 2022 meeting of the Groundfish Plan Teams. A final version of this report will be subsequently prepared for meeting of the Groundfish Plan Teams and NPFMC. 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, the Economic and Social Sciences Research Program welcomes any feedback from readers regarding the data.

This report will be available at:

<https://www.fisheries.noaa.gov/alaska/ecosystems/economic-status-reports-gulf-alaska-and-beringsea-aleutian-islands>

Time series and plots of data presented in this report are available at:

<https://psebv.psmfc.org/PSESV2.html>

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Chapter 1

Executive Summary

The Economic SAFE report contains detailed information about economic aspects of the groundfish fisheries, including figures and tables, economic performance indices, 2022 product price and ex-vessel price projections, year-to-date information on volume and value, an Amendment 80 fishery economic data report (EDR) summary, an Amendment 91 fishery EDR summary, a Gulf Trawl fishery EDR summary, and market profiles for the most commercially valuable species. Data tables are organized into four sections: (1) All Alaska, (2) BSAI, (3) GOA, and (4) Pacific halibut. The figures and tables in the report provide estimates of total groundfish catch, groundfish discards and discard rates, prohibited species catch (PSC) and PSC rates, the ex-vessel value of the groundfish catch, the ex-vessel value of the catch in other Alaska fisheries, the gross product value of the resulting groundfish seafood products, the number and sizes of vessels that participated in the groundfish fisheries off Alaska, vessel activity, and employment on at-sea processors. Generally, the data presented in this report cover 2017-2021, but limited catch and ex-vessel value data are reported for earlier years to illustrate the rapid development of the domestic groundfish fishery in the 1980s and to provide a more complete historical perspective on catch. The data behind the tables from this and past Economic SAFE reports will be available online at: <https://reports.psmfc.org/akfin> and <https://psesv.psmfc.org/PSESV-2/>.

The commercial FMP groundfish fisheries off Alaska had a total catch of 2.01 million metric tons (mt) in 2021 (including catch in federal and state waters) (**Fig 3.1** and Table 4.1), a decrease of 4.1 % from 2020. Groundfish accounted for 81.84 % of Alaska’s 2021 total catch (Table 4.6). Total catches of Alaska’s FMP groundfish fisheries increased in 2021 for pollock, sablefish, and Atka mackerel, and decreased for Pacific cod, and the flatfish and rockfish species complexes (Table 4.1). The contributions of the major groundfish species or species groups to the total catch are depicted in **Fig 3.1**.

The aggregate ex-vessel value of the FMP groundfish fisheries off Alaska was \$759.57 million, which was 38.1% of the ex-vessel value of all commercial fisheries off Alaska in 2021 (Table ??).¹ After adjustment for inflation, the real ex-vessel value of FMP groundfish decreased \$40.09 million in 2021 was also due to an aggregate real ex-vessel price decrease of 1.2% to \$0.18 per pound (Table 4.6). Nominal pollock ex-vessel prices increased 7% to \$0.14 per pound in the Bering Sea and Aleutian Islands (BSAI), and 5% to \$0.12 per pound in the Gulf of Alaska (GOA) (Tables 4.13

¹The 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.

and 4.31). Pacific cod nominal ex-vessel prices decreased 13% to \$0.34 per pound in the BSAI, and decreased 1% to \$0.39 per pound in the GOA. Among the other species that are the focus of the shoreside ex-vessel fisheries: The GOA flatfish ex-vessel price fell 20%, GOA rockfish prices were stable, and GOA sablefish prices increased 20% (in nominal terms). For BSAI FMP groundfish in aggregate, the change in price was larger than the change in catch (Tables 5.6, 5.10). While in the GOA prices and catch were both increasing with the change in catch the more dominant of the two. For other fisheries in Alaska, halibut, salmon, herring, and shellfish ex-vessel revenues increased (Table 4.6).

The gross value of the 2021 groundfish catch after primary processing (first-wholesale) was \$2.14 billion (Table 4.7), a decrease of 2.6% in real terms from 2020. This change was the combined effect of a 6% increase in the real aggregate 2021 first-wholesale price to \$1.27 per pound which was offset by aggregate production volumes decreasing -8.4% to 765.3 thousand mt (Table 4.7). In the BSAI, aggregate first-wholesale value decreased 3.5% and value was increasing for pollock, and sablefish but was decreasing or stable for nearly all other species including Pacific cod, rockfish, and flatfish (Table 4.17). The average first-wholesale price for all products was increasing for most species with the exception of Atka mackerel and some flatfish species (Table 4.18). In the GOA aggregate first-wholesale value increased (20.7%) with increases in value for all species except for flatfish (Table 4.35). Prices were increasing for most species with the exception of some flatfish species (Tables 4.34 and 4.36)

Starting in 2020, COVID-19 has had an unprecedented impact on fisheries in Alaska. Undoubtedly, one of the significant economic impacts experienced by the industry were the mitigation costs experienced by the fishing and processing industries to continue to supply national and global markets for seafood. This report does not provide a comprehensive accounting of these costs, as they are not a part of our existing EDR data collections. The core economic data tables in this report focus on catch, revenues, and effort and changes occurring during the most recent year.

The first-wholesale value of Alaska's FMP groundfish fisheries accounted for 45.2% of Alaska's total first-wholesale value from commercial fisheries (Table 4.7). First-wholesale value of Alaska's fisheries products other than FMP groundfish fisheries totaled \$2.6 billion, most of which (\$1.92 billion) came from Pacific salmon. Pacific salmon value increased 63.9%, in part, because of the typical cycle in salmon returns and production, though year-over-year prices were down. Pacific halibut fisheries, which are concentrated in the Gulf of Alaska, saw a increase of 75.2% in value in 2021 to \$152.8 million as a result of substantial increases in prices and volume.

The groundfish fisheries off Alaska are an important segment of the U.S. fishing industry. In 2020, it accounted for 53.99% of the weight of total U.S. domestic landings and 17.21% of the ex-vessel value of total U.S. domestic landings (Fisheries of the United States, 2020). Alaska fisheries as a whole (including salmon, halibut, herring, and shellfish) accounted for 60.97% of the weight of total U.S. domestic landings and 32.72% of the ex-vessel value of total U.S. domestic landings.

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 and catcher vessels of FMP groundfish. These data indicate that in 2021 crew weeks for both sectors totaled 107,559 with the majority of them (92,697.5) occurring in the BSAI groundfish fishery (Tables 4.25, 4.43, 4.26, and 4.44). In the BSAI, the months with the highest employment correspond with peak of the pollock seasons in February-March and July-September. In the Gulf of Alaska, crew weeks peak February-May with the catcher vessel hook and line fisheries targeting sablefish and Pacific cod. Relative to 2020, annual crew weeks in Alaska decreased in 2021 by 10.4 %.

Chapter 2

Overview of Economic Status Report, 2021

2.1 Introduction

This report presents the economic status of groundfish fisheries off Alaska in terms of economic activity and outputs using estimates of catch, discards, prohibited-species catch (PSC), ex-vessel prices and value (i.e., revenue), effort (as measured by the size and level of activity of the groundfish fleet), and the first wholesale production volume and gross value of (i.e., F.O.B. Alaska revenue from) processed products.¹ The catch, ex-vessel value, fleet size, and activity data reported here reflect the fishing industry activities that are accounted for in the groundfish landings and production reports, North Pacific groundfish and halibut observer data, and the State of Alaska Commercial Operator’s Annual Reports. Catch data in this report are sourced from the NMFS Alaska Regional Office (AKRO) catch-accounting system (CAS), which is used for in-season monitoring of groundfish and PSC quotas. The data descriptions, qualifications, and limitations noted in this overview of the fisheries 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. 2020) and is intended to serve as a reference document for those involved in making decisions with respect to conservation, management, and use of Gulf of Alaska (GOA) and Bering Sea and Aleutian Islands (BSAI) groundfish fishery resources.

In addition to catch that is counted against a federal Total Allowable Catch (TAC) quota (i.e., managed under a federal Fishery Management Plan (FMP)), estimates provided in some of the following tables may include catch from other Alaska groundfish fisheries (as indicated by the footnotes). 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 in the U.S. Exclusive Economic Zone (EEZ) and catch occurring in Alaska state waters (3-mile limit). The State of Alaska maintains authority over some rockfish fisheries in the EEZ of the GOA, for example, and parallel fisheries in state waters are managed under federal FMPs. It is not always possible, depending on data source(s), to definitively identify a unit of catch, or associated units, such as revenue or price, as being part of a federal FMP or otherwise, as noted in the footnotes. Additionally, unless explicitly indicated, phrases such as “groundfish fisheries off Alaska” or “Alaska

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

groundfish”, as used in this report, should not be construed to include any category of state or federally managed fishery or to refer to any specific geographic area. These and similar phrases may describe groundfish from both Alaska state waters and the federal EEZ off Alaska, groundfish managed only under federal FMPs, or managed under the authority of both NMFS and the state of Alaska.

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 management policies with respect to net benefits to either the participants in these fisheries or the Nation, such as cost or quota value data (where applicable), are not available for many of 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. Seven of the seventeen catch-share programs currently in operation in the U.S. operate in the North Pacific, accounting for approximately 75% of Alaska’s 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., Felthoven 2002, Homans and Wilen 2005, Wilen and Richardson 2008, Abbott et al. 2010, Fell and Haynie 2011, Torres and Felthoven 2014, Abbott et al. 2015).

There is considerable uncertainty concerning the future conditions of stocks, the resulting quotas, and potential changes to the fishery management regimes for the BSAI and GOA groundfish fisheries. The management tools used to allocate the catch among various user groups can significantly affect the economic health of the fishery as a whole or segments of the fishery. Changes in fishery management measures are expected to result from 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; 5) the allocations of groundfish quotas among user groups; 6) maintaining sustainable fisheries and fishing communities that allow for new entrants into the fisheries; and 7) the response of the fisheries and ecosystem to climatic trends.

The remainder of this report is structured as follows: Section 2.2 gives a verbal description and important information for understanding the economic data tables in Section 4. Section 5 examines the economic performance of the North Pacific groundfish fisheries through market indices.

2.2 Description of the Economic Data Table

2.2.1 Groundfish and Prohibited Species Catch Data Description

Data Sources

Total catch estimates in the groundfish fisheries off Alaska are generated by NMFS from data collected through an extensive fishery observer program and from information provided through required industry reports of harvest and at-sea discards. The North Pacific Observer Program (Observer Program), based at the NMFS Alaska Fisheries Science Center (AFSC), has had a vital role in the management of North Pacific groundfish fisheries since the late 1980s. Observer

data are collected by NMFS-trained observers and provide scientific information for managing the groundfish fisheries and minimizing bycatch. Industry-reported data consists of catch and processed product amounts that are electronically recorded and submitted to NMFS through the Interagency Electronic Reporting System, known as eLandings. Observer information and industry reports are integrated into a NMFS application called the Alaska Catch Accounting System (CAS), which is used directly in managing fisheries.

The primary purpose of the CAS is to provide estimates of total catch for FMP species (including prohibited species) in the groundfish and halibut fisheries and allow the in-season monitoring of catch against the TACs and PSC limits. The harvests of groundfish in Federal waters are governed under fishery management plans (FMPs) that are specific to the Bering Sea and Aleutian Islands (BSAI) and Gulf of Alaska (GOA) regions. The groundfish TACs are established and monitored in terms of total catch, which is the sum of retained and discarded catch. In addition, the FMPs describe policy for setting bycatch limits for some species, such as halibut and salmon, whose retention is prohibited in the groundfish fisheries; bycatch of these species is referred to as Prohibited Species Catch (PSC).

In the CAS, at-sea sample and census data collected by observers are used to create discard and PSC rates (a ratio of the estimated discarded catch to the estimated total catch in sampled hauls). For trips that are unobserved, the discard and PSC rates are applied to industry-supplied landings of retained catch. Expanding on the observer data that are available, the extrapolation from observed vessels to unobserved vessels is based on varying levels of aggregated data. Data are matched based on processing sector (e.g., catcher/processor or catcher vessel), week, target fishery, gear, and federal reporting area. Further detail on the estimation procedure is available in Cahalan et al. (2014). With the exception of Pacific halibut PSC, all estimated at-sea discard is assumed to have 100% mortality. Halibut mortality rates are updated every three years based on the estimated condition of halibut sampled by observers (Williams 2012). These rates are applied to the total estimated halibut discards (for a gear type, FMP area (GOA or BSAI), fishery, and year).

Groundfish Catch Tables

The catch presented throughout these tables is total catch which includes retained and discarded catch. Catch data are sourced from the CAS. Catch for all Alaska including state and federal catches is displayed in Table 4.1. Retained catch for just FMP-managed groundfish is provided in Table 4.6 presents catch data by area (BSAI and GOA), gear (trawl, hook and line—used in this report to include longlines and jigs—and pot gear), vessel type (catcher vessels and catcher/processor vessels), and species (complex). Tables 4.10 and 4.27 provide additional information for the BSAI and GOA, respectively, with aggregation of gear types and species specific catch data for flatfish and rockfish. Tables 4.11, 4.12, 4.28, 4.29 and 4.30 provide estimates of total catch by species, gear, and target species for the BSAI and GOA, respectively. In general, the species or species complex accounting for the largest proportion of retained catch on the trip or haul is considered the target species, with two exceptions. A target of pelagic pollock is assigned only if 95% or more of the total catch is pollock. In the BSAI, if flatfish species (flathead, rock, and yellowfin sole, and other flatfish) represent the largest amount of retained catch, then a target of yellowfin sole is assigned if this species represents at least 70% of the combined flatfish retained catch; otherwise, the flatfish species accounting for the greatest amount of retained flatfish catch is assigned as the target. Beginning in 2011, Kamchatka flounder was broken out from arrowtooth flounder in the BSAI. As such, the “other flatfish”, and/or arrowtooth flounder target categories may not be directly comparable between 2011 and prior years in the historical catch data available online.

Groundfish Discards and Discard Rates

Discarded catch is the unretained catch of species that a vessel is, in general, legally able to target and retain (and thus does not include PSC). Discards are included in a vessel's total catch. Discards can occur for various reasons and in a variety of ways such as discarding of non-targets species, 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. Discard rates can be high for non-target species. For the most common species (e.g. pollock and cod) retention requirements reduce the amount of discards for these species. The discard rate is the percent of total catch of a species that is discarded. Details on discard estimation can be found in Cahalan et al. (2014). The discards in the groundfish fisheries have received significant management attention by NMFS, the Council, Congress, and the public at large. Table 4.4 presents CAS estimates of discarded groundfish catch and discard rates (calculated as the percent of total catch that is discarded) by gear, area, and species for years 2017-2021.

Prohibited-Species Catch

Prohibited-species catch (PSC) is the catch of species that a vessel is prohibited from targeting and retaining due to their economic value to users outside the FMP groundfish fisheries. These species include Pacific halibut, king and tanner crab (*Chionoecetes*, *Lithodes*, and *Paralithodes spp.*), Pacific salmon (*Oncorhynchus spp.*), and Pacific herring (*Clupea pallasii*). Monitoring and minimizing the amount PSC in the Alaska groundfish fisheries has historically been an issue that has received significant management attention. 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 PSC for 2017-2021 are summarized by area and gear in Table 4.5.

The at-sea observer program was developed for 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 estimates of total groundfish catch and non-groundfish PSC by species, it reduced 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, which became completely observed in 2011. As a result, salmon PSC estimates in the Bering Sea pollock fishery are a census rather than a sample, and since 2011, there has been a fixed "hard cap" in the fishery.² 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).

²These rules for salmon bycatch management were put in place through Amendment 91 to the BSAI FMP. For details see <https://www.federalregister.gov/documents/2010/08/30/2010-20618/fisheries-of-the-exclusive-economic-zone-off-alaska-chinook-salmon-bycatch-management-in-the-bering>

2.2.2 Ex-Vessel Prices and Value

The ex-vessel market is the transaction of catch delivered by vessels to processors. In general, ex-vessel prices are derived from Commercial Operator Annual Report (COAR) buying reports. Some catcher-vessels minimally process (e.g., head-and-gut) the catch prior to delivery to the processor. The value of this on-board processing is discounted from the ex-vessel price so that it represents the round-weight (unprocessed) prices of the retained catch. Ex-vessel value is calculated by multiplying ex-vessel prices by retained catch. For the at-sea sector much of catch is both caught and processed for first-wholesale distribution by a single entity and as such a true “ex-vessel” market does not exist. For national accounting purposes the “ex-vessel” value of the at-sea sector are calculated by applying COAR buying prices for the corresponding species (complex), region, and gear-type of the retained catch. For a subset of fisheries that are prosecuted primarily by the at-sea catcher/processor fleet, and for which COAR buying data are sparse, we impute prices as a percentage (40%) of the estimated wholesale value per round weight. This percentage reflects the long-term average of the ratio of ex-vessel prices to head-and-gut (H&G) processed-product prices for species (primarily Pacific cod) that are well represented in COAR buying and production reports. Ex-vessel prices and value include post-season adjustments.

Tables 4.6 contains data on the real ex-vessel value and catch of groundfish and non-groundfish species in Alaska, adjusted to 2021 dollars by applying the Personal Consumption Expenditure Index (<https://research.stlouisfed.org/fred2/series/PCEPI>) to account for effects of inflation on fishermen’s revenue. Table 4.8 provides estimates of ex-vessel value by residency (Alaska compared to the rest of the U.S., labeled ‘Other’) of primary vessel owners, area, and species. Residency of primary vessel owners are determined from the CAS combined with State of Alaska groundfish fish ticket data and vessel registration data, the latter of which includes the stated residency of the primary vessel owner. Residents of Alaska and of other states, particularly Washington and Oregon, are active participants in the BSAI and GOA groundfish fisheries. For the BSAI and GOA combined, 78% of the 2021 groundfish ex-vessel value was accounted for by vessels with primary owners who indicated that they were not residents of Alaska.

Tables 4.13 and 4.31 contain estimated ex-vessel prices that are used with estimates of retained catch to calculate ex-vessel values (gross revenues) for the BSAI and GOA, respectively. Prices in these tables may include data from both federally-managed and state-managed fisheries. Estimates of ex-vessel value by area, gear, type of vessel, and species are presented in Tables 4.14 and 4.32 for the BSAI and GOA, respectively. Table 4.15 presents estimates of ex-vessel value of catch and value per vessel, vessel and permit counts, in the BSAI and the percent value of BSAI FMP groundfish and all BSAI fisheries by processor group. Table 4.15 provides these same data for the GOA.

2.2.3 First Wholesale Production, Prices, and Value

The first wholesale market is the first sale of fisheries products after initial processing by a commercial processor with a Federal Processor Permit (FPP).³ Groundfish first wholesale production data are sourced from at-sea and shoreside groundfish production reports. Product pricing and value reflect COAR product report price data appended to these production data per the AKFIN product pricing index. While groundfish production reports are a federal reporting requirement, there is typically no distinction made in this reporting between product derived from federally-managed catch and product derived from state-managed catch. Likewise, while COAR

³An FPP is required for all processors receiving and/or processing groundfish harvested in Federal waters.

production reports include the area of processing, these data are insufficient for identifying the fishery inputs for units of finished production. As such, these tables reflect production volume and pricing from federal and some state-managed fisheries. Wholesale value and prices are given as F.O.B. (Free On Board) Alaska, indicating that transportation costs are not included in values and prices.

Table 4.7 reports estimates of the weight and first wholesale value of processed products from catch in the groundfish and non-groundfish commercial fisheries of Alaska. Estimates of first wholesale production weight of the processed products sourced from catch of groundfish are presented by species, product form, sector, and type of processor in Table 4.16 for the BSAI and Table 4.34 for the GOA. First-wholesale value (gross revenue) is presented in Tables 4.17 and 4.35 for the BSAI and GOA, respectively. Product price-per-pound estimates are presented in Tables 4.18 and 4.36, and estimates of total first wholesale product value per round metric ton of retained catch are reported in Table 4.19 and for the BSAI and GOA, respectively. For these tables we source the round weight of retained catch from CAS data rather than using product recovery rates to derive round weights from production data.

Tables 4.20 and 4.38 present number of processors, gross product value and value per processor, and percent of total wholesale value of processed groundfish accounted for by different processing groups, for the BSAI and GOA, respectively. Data in these tables are summarized from COAR product reporting, and no distinction is made between state-managed and federally-managed groundfish sources of production.

2.2.4 Effort (Fleet Size, Weeks, of Fishing, Crew weeks)

Data on measures of fishing capacity and effort in federally-managed Alaska groundfish fisheries, including fleet size, duration of fishing, and levels of harvesting and processing employment are sourced from CAS data, ADF&G groundfish fish tickets, North Pacific groundfish observer data, and at-sea groundfish production reports.

Vessel participation by area, vessel type, and target are shown in Table 4.9. Number of vessels, average and median length, and average and median capacity (registered net tonnage) of vessels by vessel type and gear are shown in Tables 4.21 and 4.39.

Tables 4.23 and 4.41 provide estimates of vessel weeks for catcher vessels in the BSAI and GOA, respectively, stratified by length class, area, gear, and target fishery. Tables 4.24 and 4.42 provide the same stratification of vessel weeks for catcher/processors in the BSAI and GOA, respectively. Vessel weeks are apportioned by catch volume in cases where a vessel is identified with activity in multiple gears, areas, and/or targets in a given week.

Catcher vessel crew weeks are sourced from ADF&G fish tickets/eLandings, which include data on the number of licensed crew working aboard vessels by month and area shown in Tables 4.25 and 4.43, in the BSAI and GOA, respectively. At-sea production reports provide that information for motherships and catcher/processors shown in Tables 4.26 and 4.44 for the BSAI and GOA, respectively. A single crew week represents one crew member aboard one vessel for a week. Crew weeks are apportioned by catch volume in cases where a vessel is identified with activity in multiple areas in a given week. These data do not include employment levels in the shoreside and inshore processing sectors.

2.2.5 Description of the Category ‘Other’ in Data Tables

The category ‘Other’ has different meanings in different tables, as described below.

- Table 4.7: ‘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).
- Tables 4.11, 4.12, 4.28, 4.29 and 4.30: ‘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 4.5: ‘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 4.14, 4.16: ‘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)
- Tables 4.16, 4.17, 4.18, 4.34, 4.35, 4.36: ‘Other fillets’ for pollock include fillets with skin and ribs; fillets with skin, no ribs; fillets with ribs, no skin; and skinless/boneless fillets. ‘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).
- Tables 4.19, 4.37: ‘Other’ species are primarily skate, squid, octopus, shark, and sculpin.

2.2.6 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 4.13, 4.14, 4.16, 4.18, 4.31, 4.32, 4.34, and 4.36. 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 Personal Consumption Expenditures: chain-type price index (<https://research.stlouisfed.org/fred2/series/PCEPI>) was used to deflate the ex-vessel estimates reported in Table 4.6. The PCE is used to adjust fishermen’s ex-vessel revenues to account for the change in general US consumption expenditures. The GDP: chain-type price index <https://research.stlouisfed.org/fred2/series/GDPCTPI>) was used to deflate the first wholesale value estimates reported in Table 4.7. The GDP price index is used to adjust to fishermen’s wholesale production revenues to account for the change in general US production prices. The use of these indices began in 2014. Before 2014 this annual report used the Producer Price Index (PPI) for unprocessed and packaged fish for real adjustments (<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 Tables 54-56 of this report, are available in Fisheries of the United States (FUS), published annually by the NMFS Office of Science & Technology. The most recent FUS is available at: <https://www.fisheries.noaa.gov/national/sustainable-fisheries/fisheries-united-states>
- Foreign exchange rates, which we've previously published in Tables 59
- Observer 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 Observer Annual Report at: <http://alaskafisheries.noaa.gov/fisheries/observer-program-reports>

2.2.7 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 industry representatives 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 useful 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. Please contact Michael D Smith at [michael.d.smith@noaa.gov] with any comments or suggestions to improve the Economic SAFE.

2.2.8 Citations

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2.2.9 Acknowledgements

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Chapter 3

Figure Reporting Economic Data of the Groundfish Fisheries Off Alaska

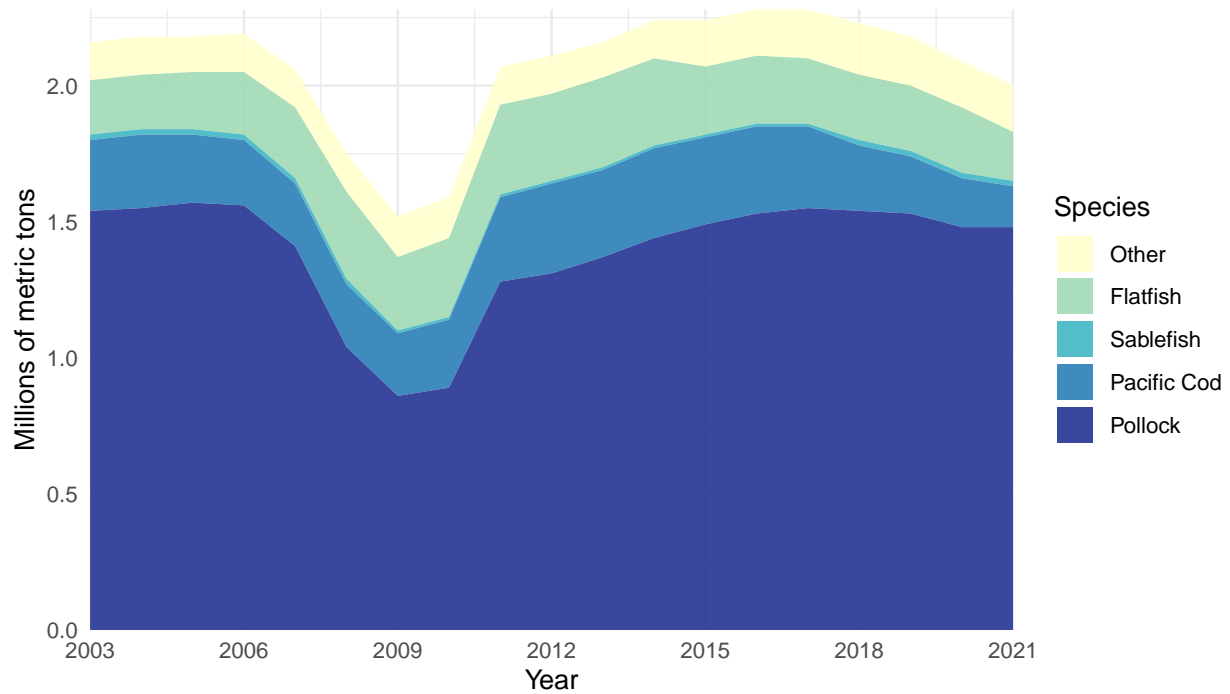


Figure 3.1: Groundfish catch in the commercial fisheries off Alaska by species

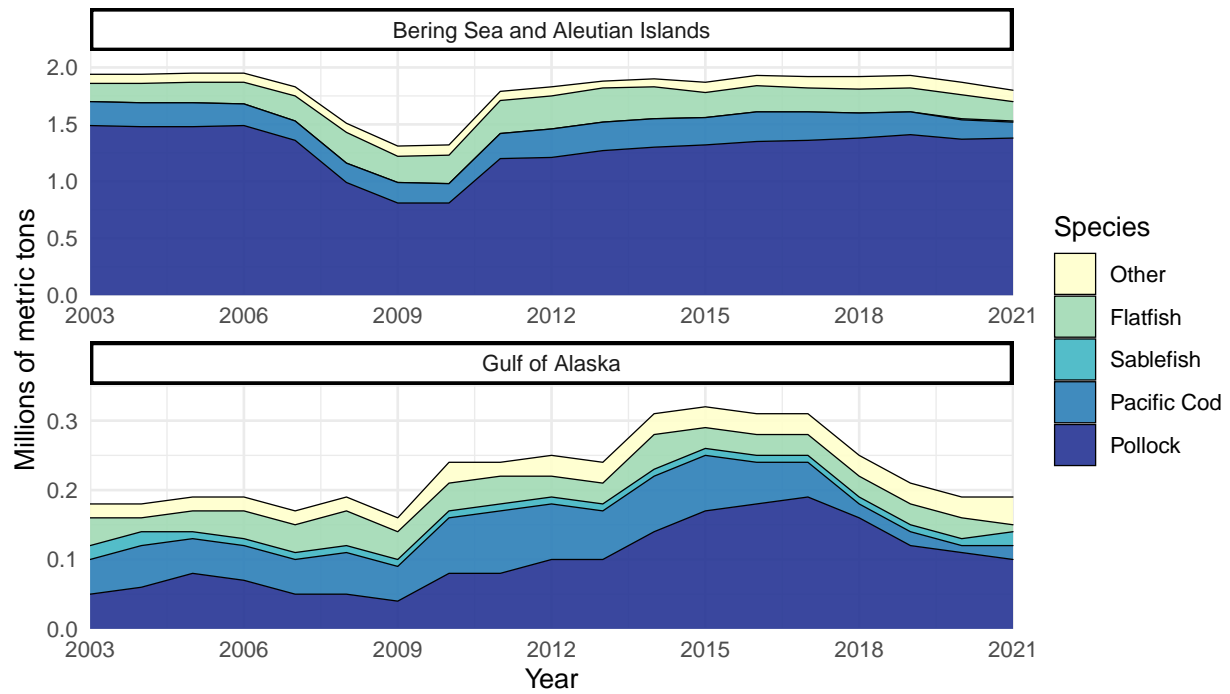


Figure 3.2: Groundfish catch in the commercial fisheries off Alaska by species

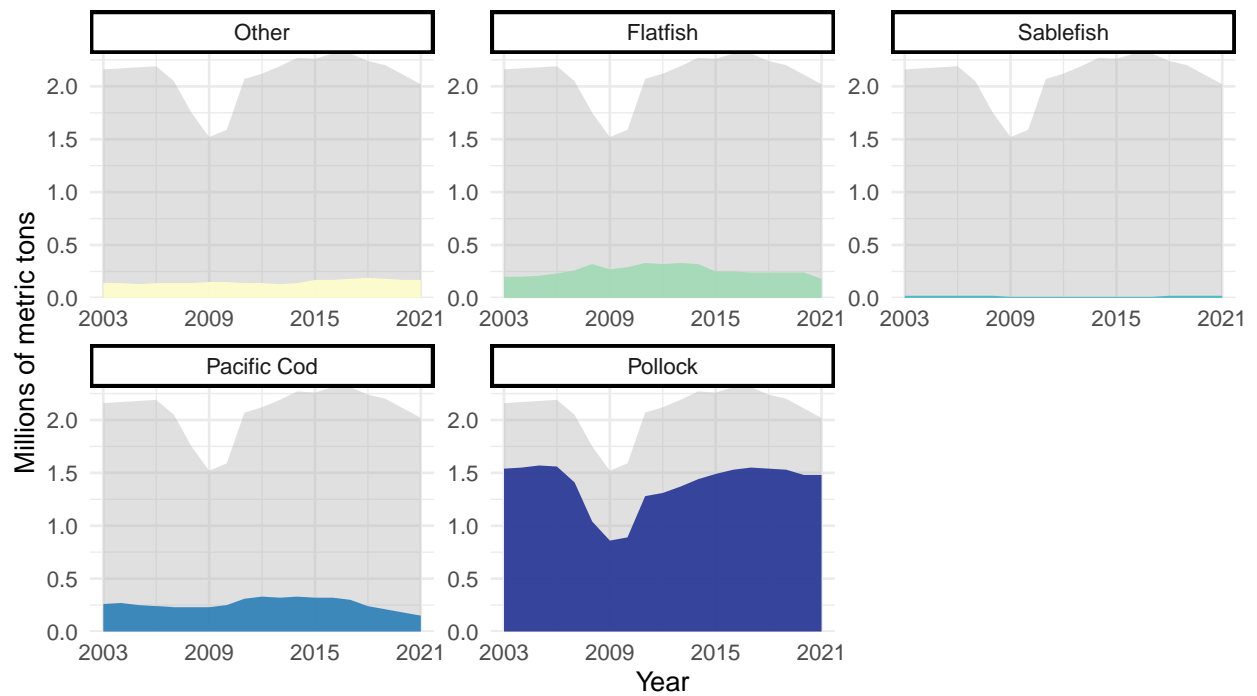


Figure 3.3: Groundfish catch in the commercial fisheries off Alaska by species

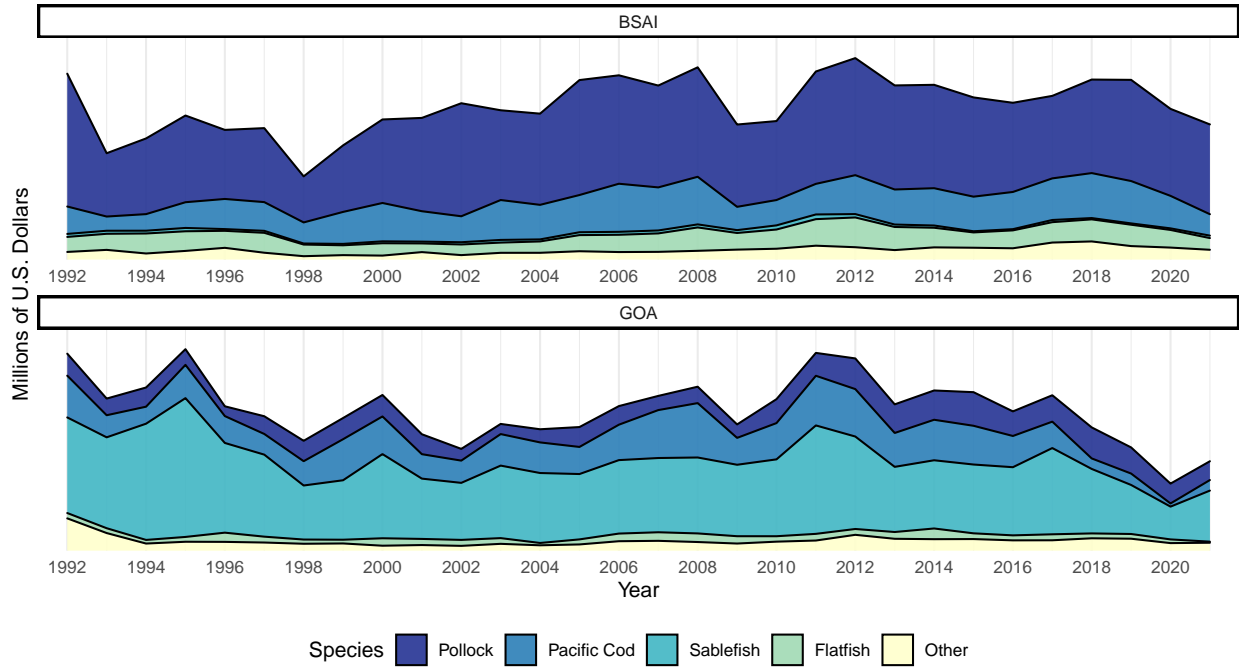


Figure 3.4: Real ex-vessel value of the groundfish catch in the commercial fisheries off Alaska by species, 1992- 2021 (base year = 2021)

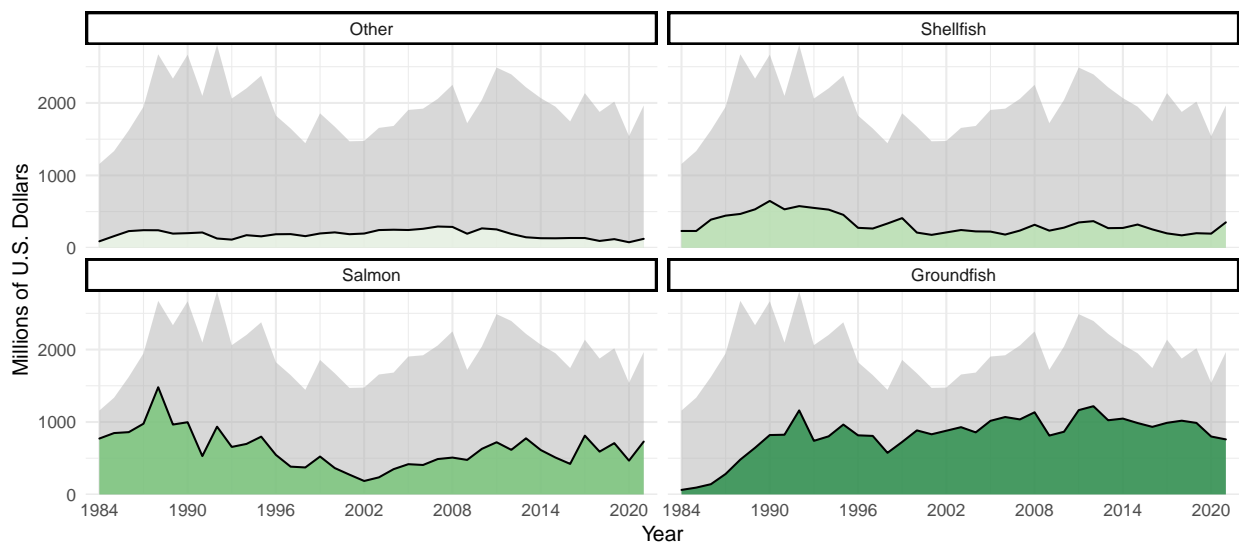


Figure 3.5: Real ex-vessel value of the domestic fish and shellfish catch off Alaska by species group, 2003- 2021 (base year = 2021).

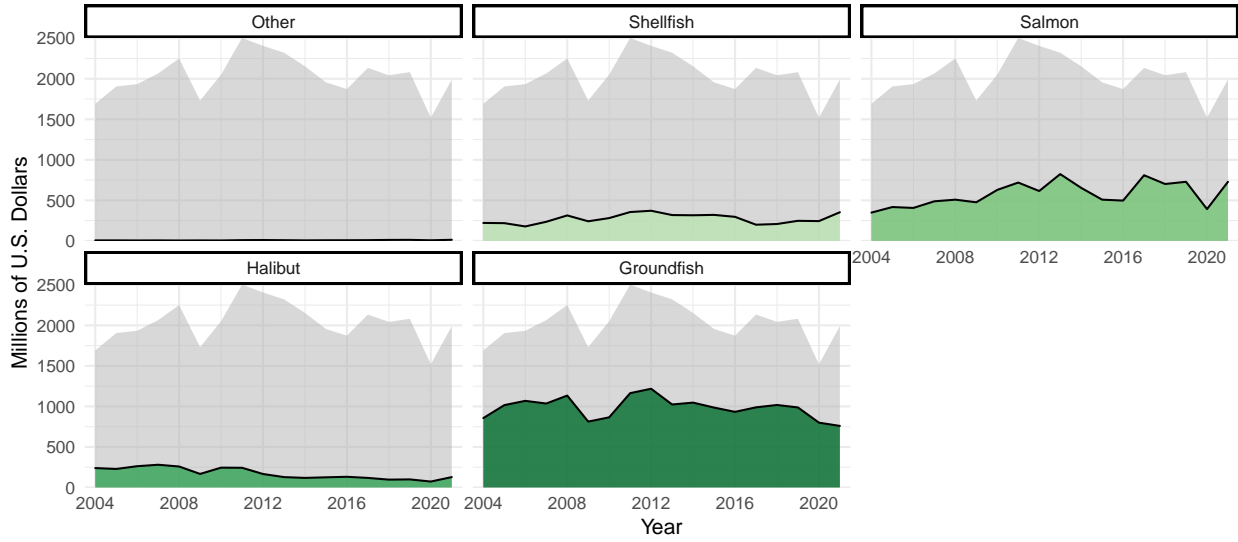


Figure 3.6: Real ex-vessel value of the domestic fish and shellfish catch off Alaska by species group, 2003- 2021 (base year = 2021).

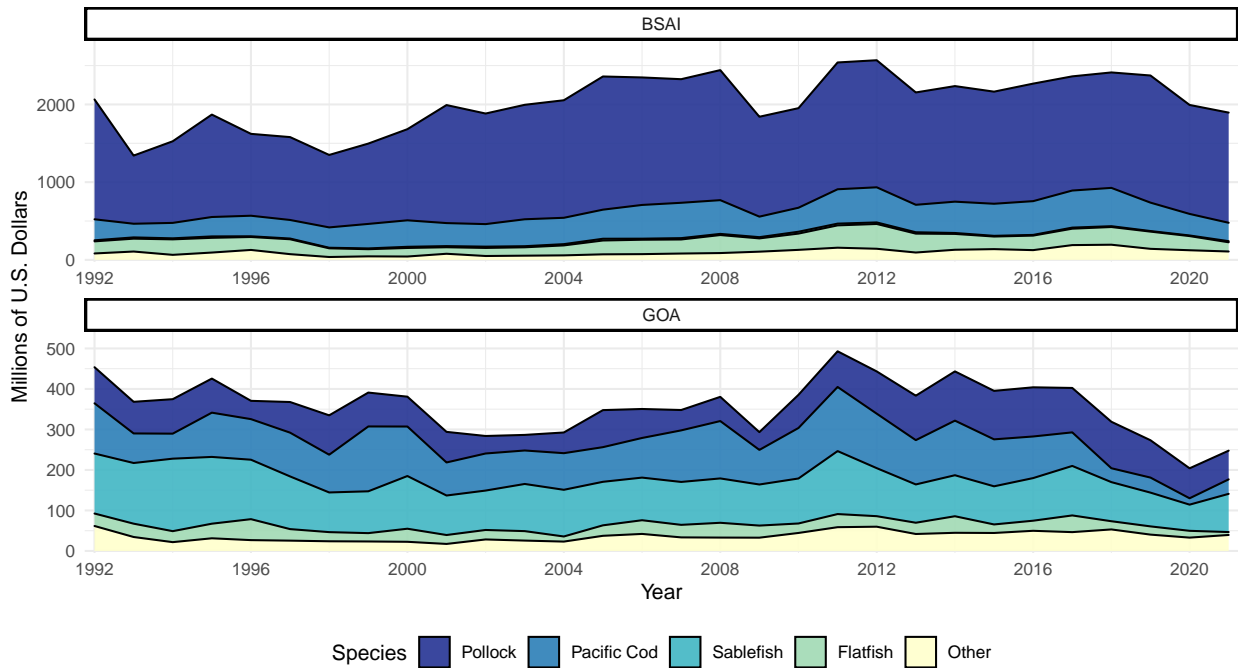


Figure 3.7: Real gross product value of the groundfish catch off Alaska by species, 1992- 2021 (base year = 2021).

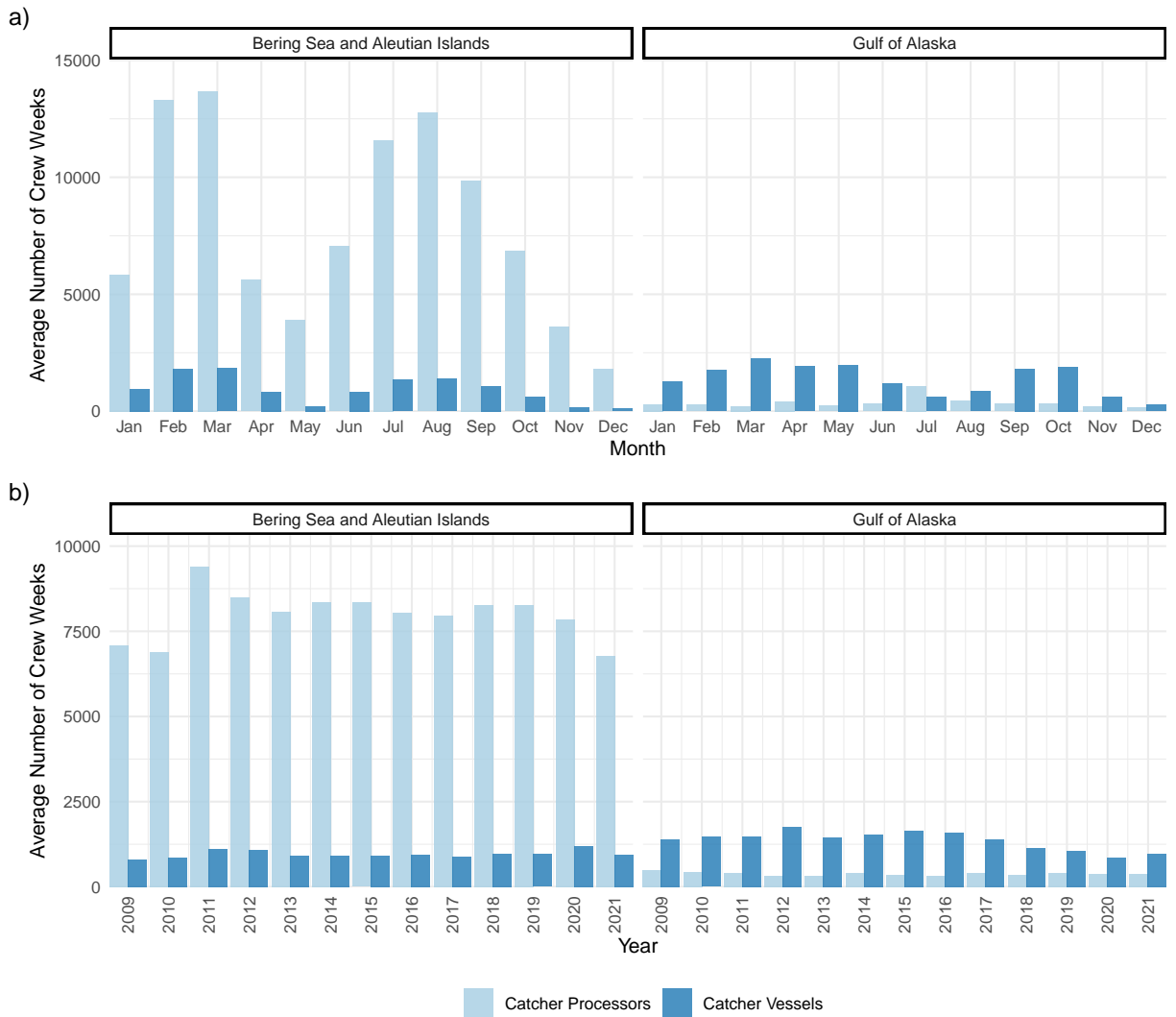


Figure 3.8: a) Average number of crew weeks in both BSAI and GOA by month for Catcher Processors and Catcher Vessels, 2009- 2021, b) by year, 2009- 2021

Chapter 4

Tables Reporting Economic Data of the Groundfish Fisheries Off Alaska

4.1 Alaska Economic Data Tables

Table 4.1: Groundfish catch in the commercial fisheries off Alaska by area and species, 2012-2021 (1,000 metric tons, round weight).

| | | Pollock | Sablefish | Pacific Cod | Flatfish | Rockfish | Atka Mackerel | Total |
|--|------|---------|-----------|-------------|----------|----------|------------------|---------|
| Bering Sea And Aleutian Islands | 2012 | 1,206.3 | 1.9 | 250.8 | 291.6 | 28.1 | 47.8 | 1,858.1 |
| | 2013 | 1,273.8 | 1.7 | 250.3 | 297.7 | 35.0 | 23.2 | 1,915.1 |
| | 2014 | 1,300.2 | 1.1 | 249.3 | 276.6 | 36.1 | 31.0 | 1,929.0 |
| | 2015 | 1,323.2 | 0.6 | 242.0 | 219.7 | 39.7 | 53.3 | 1,914.7 |
| | 2016 | 1,354.9 | 0.9 | 260.9 | 225.5 | 36.8 | 54.5 | 1,969.4 |
| | 2017 | 1,360.9 | 1.7 | 253.0 | 211.4 | 38.1 | 64.4 | 1,968.9 |
| | 2018 | 1,381.2 | 2.2 | 220.3 | 212.2 | 41.7 | 70.4 | 1,966.2 |
| | 2019 | 1,411.0 | 3.8 | 198.0 | 208.6 | 54.3 | 57.5 | 1,959.5 |
| | 2020 | 1,370.4 | 6.6 | 169.9 | 214.1 | 50.8 | 58.9 | 1,896.0 |
| | 2021 | 1,378.1 | 5.7 | 135.7 | 169.2 | 43.7 | 61.4 | 1,814.4 |
| Gulf Of Alaska | 2012 | 104.0 | 12.7 | 77.9 | 29.8 | 27.5 | 1.2 | 259.3 |
| | 2013 | 96.4 | 12.8 | 68.6 | 34.3 | 25.0 | 1.3 | 250.6 |
| | 2014 | 142.6 | 11.1 | 84.9 | 48.0 | 29.0 | 1.0 | 326.8 |
| | 2015 | 167.5 | 11.0 | 79.5 | 27.1 | 29.1 | 1.2 | 324.9 |
| | 2016 | 177.1 | 10.0 | 64.1 | 28.3 | 34.1 | 1.1 | 324.4 |
| | 2017 | 186.2 | 11.3 | 48.7 | 33.6 | 31.9 | 1.1 | 321.5 |
| | 2018 | 158.1 | 13.0 | 15.2 | 25.9 | 34.3 | 1.4 | 255.7 |
| | 2019 | 120.2 | 13.7 | 15.7 | 32.0 | 34.3 | 1.3 | 224.2 |
| | 2020 | 107.5 | 13.4 | 6.8 | 28.9 | 32.3 | 0.6 | 194.4 |
| | 2021 | 101.2 | 16.5 | 19.2 | 13.0 | 36.9 | 0.9 | 192.8 |
| All Alaska | 2012 | 1,310.2 | 14.7 | 328.8 | 321.4 | 55.6 | 49.0 | 2,117.4 |
| | 2013 | 1,370.1 | 14.5 | 318.9 | 332.0 | 59.9 | 24.5 | 2,165.8 |
| | 2014 | 1,442.9 | 12.2 | 334.3 | 324.6 | 65.1 | 32.0 | 2,255.8 |
| | 2015 | 1,490.8 | 11.7 | 321.5 | 246.8 | 68.8 | 54.5 | 2,239.6 |
| | 2016 | 1,532.1 | 10.9 | 324.9 | 253.9 | 70.9 | 55.6 | 2,293.8 |
| | 2017 | 1,547.0 | 13.0 | 301.8 | 245.0 | 70.0 | 65.5 | 2,290.5 |
| | 2018 | 1,539.2 | 15.2 | 235.4 | 238.2 | 76.0 | 71.8 | 2,221.9 |
| | 2019 | 1,531.3 | 17.5 | 213.8 | 240.7 | 88.7 | 58.7 | 2,183.7 |
| | 2020 | 1,477.9 | 20.0 | 176.8 | 243.0 | 83.1 | 59.5 | 2,090.4 |
| | 2021 | 1,479.3 | 22.2 | 154.9 | 182.2 | 80.6 | 62.3 | 2,007.2 |

Note The estimates are of total catch (i.e., retained and discarded catch). These estimates include catch from both federal and state of Alaska fisheries. As such, totals may be slightly larger than retained catch estimates provided in later tables.

Source NMFS Office of Science and Technology, Fisheries Statistics Division, Fisheries of the United States. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.2: Groundfish retained catch off Alaska by area, sector, and species, 2017-2021 (1,000 metric tons, round weight).

| | Year | Bering Sea and Aleutian Islands | | | Gulf of Alaska | | | All Alaska | | |
|---------------|------|---------------------------------|--------------------|----------|-----------------|--------------------|--------|-----------------|--------------------|----------|
| | | Catcher Vessels | Catcher Processors | Total | Catcher Vessels | Catcher Processors | Total | Catcher Vessels | Catcher Processors | Total |
| Pollock | 2017 | 710.38 | 642.24 | 1,352.63 | 183.26 | 1.07 | 184.33 | 893.65 | 643.31 | 1,536.96 |
| | 2018 | 718.33 | 651.43 | 1,369.77 | 155.28 | 0.60 | 155.88 | 873.61 | 652.04 | 1,525.65 |
| | 2019 | 735.60 | 666.24 | 1,401.84 | 118.56 | 0.33 | 118.89 | 854.16 | 666.57 | 1,520.73 |
| | 2020 | 725.04 | 633.32 | 1,358.36 | 106.29 | 0.34 | 106.63 | 831.32 | 633.66 | 1,464.99 |
| | 2021 | 718.18 | 645.69 | 1,363.87 | 98.47 | 1.03 | 99.50 | 816.65 | 646.72 | 1,463.37 |
| Sablefish | 2017 | 0.70 | 0.76 | 1.46 | 9.05 | 1.01 | 10.07 | 9.76 | 1.77 | 11.53 |
| | 2018 | 0.83 | 0.94 | 1.77 | 9.51 | 1.00 | 10.51 | 10.34 | 1.95 | 12.28 |
| | 2019 | 1.56 | 0.61 | 2.17 | 9.78 | 1.06 | 10.85 | 11.34 | 1.67 | 13.01 |
| | 2020 | 1.66 | 1.09 | 2.75 | 10.41 | 0.91 | 11.32 | 12.07 | 2.01 | 14.08 |
| | 2021 | 2.01 | 1.43 | 3.44 | 13.87 | 1.42 | 15.29 | 15.88 | 2.85 | 18.73 |
| Pacific Cod | 2017 | 87.97 | 162.10 | 250.07 | 41.87 | 6.10 | 47.97 | 129.84 | 168.20 | 298.04 |
| | 2018 | 82.48 | 135.53 | 218.01 | 12.66 | 1.75 | 14.40 | 95.14 | 137.28 | 232.41 |
| | 2019 | 77.53 | 118.40 | 195.93 | 12.90 | 1.55 | 14.45 | 90.42 | 119.95 | 210.38 |
| | 2020 | 68.34 | 99.05 | 167.39 | 4.77 | 0.07 | 4.84 | 73.11 | 99.12 | 172.23 |
| | 2021 | 52.64 | 79.40 | 132.04 | 15.97 | 0.17 | 16.14 | 68.61 | 79.57 | 148.19 |
| Flatfish | 2017 | 21.15 | 177.56 | 198.71 | 14.52 | 14.79 | 29.31 | 35.67 | 192.36 | 228.02 |
| | 2018 | 16.56 | 180.90 | 197.47 | 17.71 | 4.89 | 22.60 | 34.27 | 185.80 | 220.07 |
| | 2019 | 23.58 | 174.63 | 198.22 | 21.32 | 6.84 | 28.16 | 44.90 | 181.47 | 226.38 |
| | 2020 | 23.86 | 179.66 | 203.52 | 19.06 | 5.31 | 24.36 | 42.91 | 184.97 | 227.88 |
| | 2021 | 10.68 | 150.31 | 160.99 | 1.06 | 7.47 | 8.53 | 11.74 | 157.78 | 169.52 |
| Rockfish | 2017 | 2.53 | 32.97 | 35.50 | 11.31 | 15.60 | 26.90 | 13.83 | 48.56 | 62.40 |
| | 2018 | 3.51 | 35.28 | 38.79 | 14.69 | 16.69 | 31.38 | 18.20 | 51.97 | 70.17 |
| | 2019 | 4.89 | 44.98 | 49.87 | 14.90 | 15.87 | 30.78 | 19.79 | 60.86 | 80.65 |
| | 2020 | 5.31 | 40.70 | 46.01 | 15.52 | 14.76 | 30.28 | 20.83 | 55.46 | 76.29 |
| | 2021 | 2.31 | 38.31 | 40.62 | 17.80 | 17.54 | 35.34 | 20.11 | 55.85 | 75.96 |
| Atka Mackerel | 2017 | 4.57 | 59.48 | 64.05 | 0.13 | 0.52 | 0.65 | 4.70 | 60.00 | 64.71 |
| | 2018 | 5.65 | 63.86 | 69.51 | 0.18 | 1.10 | 1.28 | 5.83 | 64.96 | 70.78 |
| | 2019 | 3.25 | 53.59 | 56.85 | 0.11 | 0.79 | 0.90 | 3.36 | 54.39 | 57.75 |
| | 2020 | 5.63 | 52.49 | 58.13 | * | 0.51 | 0.51 | 5.63 | 53.00 | 58.64 |
| | 2021 | 3.73 | 56.85 | 60.59 | 0.0 | 0.59 | 0.59 | 3.74 | 57.44 | 61.18 |

Table 4.2: Groundfish retained catch off Alaska by area, sector, and species, 2017-2021 (1,000 metric tons, round weight). *(continued)*

| | Year | Bering Sea and Aleutian Islands | | | Gulf of Alaska | | | All Alaska | | |
|----------------|------|---------------------------------|--------------------|----------|-----------------|--------------------|--------|-----------------|--------------------|----------|
| | | Catcher Vessels | Catcher Processors | Total | Catcher Vessels | Catcher Processors | Total | Catcher Vessels | Catcher Processors | Total |
| All Groundfish | 2017 | 828.42 | 1,084.49 | 1,912.90 | 261.14 | 39.37 | 300.51 | 1,089.56 | 1,123.86 | 2,213.42 |
| | 2018 | 829.18 | 1,079.96 | 1,909.14 | 210.96 | 26.14 | 237.10 | 1,040.14 | 1,106.10 | 2,146.24 |
| | 2019 | 847.09 | 1,067.59 | 1,914.68 | 178.71 | 26.53 | 205.24 | 1,025.79 | 1,094.12 | 2,119.91 |
| | 2020 | 830.45 | 1,014.75 | 1,845.21 | 156.87 | 21.90 | 178.77 | 987.32 | 1,036.66 | 2,023.98 |
| | 2021 | 789.97 | 980.49 | 1,770.45 | 147.40 | 28.22 | 175.62 | 937.36 | 1,008.71 | 1,946.07 |

Note The estimates are of retained catch (i.e., excludes discarded catch). All groundfish include additional species categories. These estimates include only catch counted against federal TACs. Includes FMP groundfish catch on halibut targets. "*" indicates a confidential value; "-" indicates no applicable data or value.

Source NMFS Alaska Region Blend and Catch-accounting System estimates. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.3: Groundfish ex-vessel value off Alaska by area, sector, and species,2017-2021 (\$ millions).

| | Year | Bering Sea and Aleutian Islands | | | Gulf of Alaska | | | All Alaska | | |
|---------------|------|---------------------------------|--------------------|--------|-----------------|--------------------|--------|-----------------|--------------------|--------|
| | | Catcher Vessels | Catcher Processors | Total | Catcher Vessels | Catcher Processors | Total | Catcher Vessels | Catcher Processors | Total |
| Pollock | 2017 | 206.12 | 146.76 | 352.89 | 35.04 | 0.20 | 35.24 | 241.16 | 146.97 | 388.13 |
| | 2018 | 237.12 | 171.12 | 408.24 | 42.03 | 0.16 | 42.20 | 279.16 | 171.28 | 450.44 |
| | 2019 | 260.48 | 187.79 | 448.26 | 36.01 | 0.09 | 36.10 | 296.49 | 187.88 | 484.36 |
| | 2020 | 234.48 | 155.65 | 390.14 | 27.63 | 0.09 | 27.72 | 262.11 | 155.74 | 417.85 |
| | 2021 | 243.23 | 175.07 | 418.30 | 26.96 | 0.28 | 27.24 | 270.19 | 175.35 | 445.54 |
| Sablefish | 2017 | 5.83 | 3.23 | 9.06 | 105.98 | 9.02 | 115.00 | 111.81 | 12.25 | 124.06 |
| | 2018 | 3.08 | 2.65 | 5.73 | 81.44 | 6.30 | 87.74 | 84.53 | 8.95 | 93.47 |
| | 2019 | 4.44 | 1.38 | 5.81 | 61.84 | 5.46 | 67.30 | 66.27 | 6.84 | 73.11 |
| | 2020 | 2.65 | 2.41 | 5.07 | 43.34 | 2.45 | 45.79 | 45.99 | 4.86 | 50.86 |
| | 2021 | 7.51 | 3.91 | 11.42 | 69.20 | 5.03 | 74.22 | 76.71 | 8.94 | 85.64 |
| Pacific Cod | 2017 | 60.43 | 117.53 | 177.96 | 30.86 | 4.34 | 35.20 | 91.29 | 121.87 | 213.15 |
| | 2018 | 71.53 | 124.69 | 196.22 | 12.49 | 1.67 | 14.16 | 84.02 | 126.36 | 210.38 |
| | 2019 | 69.87 | 117.71 | 187.58 | 14.10 | 1.57 | 15.67 | 83.97 | 119.29 | 203.25 |
| | 2020 | 57.43 | 88.41 | 145.85 | 4.17 | 0.06 | 4.22 | 61.60 | 88.47 | 150.07 |
| | 2021 | 42.43 | 57.16 | 99.59 | 13.74 | 0.14 | 13.88 | 56.16 | 57.31 | 113.47 |
| Flatfish | 2017 | 9.34 | 77.86 | 87.20 | 3.79 | 3.86 | 7.65 | 13.13 | 81.72 | 94.85 |
| | 2018 | 8.07 | 88.21 | 96.28 | 4.94 | 1.37 | 6.31 | 13.01 | 89.58 | 102.59 |
| | 2019 | 11.28 | 83.31 | 94.59 | 4.65 | 1.49 | 6.15 | 15.94 | 84.80 | 100.74 |
| | 2020 | 9.26 | 69.63 | 78.90 | 3.62 | 1.01 | 4.63 | 12.89 | 70.64 | 83.53 |
| | 2021 | 3.60 | 50.75 | 54.36 | 0.16 | 1.14 | 1.30 | 3.76 | 51.89 | 55.66 |
| Rockfish | 2017 | 1.23 | 15.63 | 16.85 | 5.65 | 6.28 | 11.93 | 6.88 | 21.90 | 28.78 |
| | 2018 | 1.67 | 16.51 | 18.18 | 7.60 | 7.08 | 14.68 | 9.27 | 23.59 | 32.86 |
| | 2019 | 1.73 | 15.85 | 17.58 | 7.56 | 6.86 | 14.42 | 9.30 | 22.71 | 32.00 |
| | 2020 | 1.71 | 13.07 | 14.78 | 5.25 | 4.19 | 9.44 | 6.96 | 17.26 | 24.22 |
| | 2021 | 0.76 | 12.58 | 13.35 | 5.68 | 4.99 | 10.67 | 6.44 | 17.58 | 24.02 |
| Atka Mackerel | 2017 | 3.59 | 46.66 | 50.25 | 0.11 | 0.45 | 0.56 | 3.70 | 47.10 | 50.80 |
| | 2018 | 4.33 | 48.94 | 53.27 | 0.14 | 0.86 | 1.00 | 4.47 | 49.80 | 54.27 |
| | 2019 | 2.03 | 33.46 | 35.49 | 0.07 | 0.51 | 0.58 | 2.10 | 33.97 | 36.07 |
| | 2020 | 3.18 | 29.67 | 32.86 | -0.01 | 0.30 | 0.30 | 3.18 | 29.98 | 33.16 |
| | 2021 | 1.82 | 27.67 | 29.49 | 0.00 | 0.39 | 0.40 | 1.82 | 28.07 | 29.89 |

Table 4.3: Groundfish ex-vessel value off Alaska by area, sector, and species,2017-2021 (\$ millions). *(continued)*

| | Year | Bering Sea and Aleutian Islands | | | Gulf of Alaska | | | All Alaska | | |
|----------------|------|---------------------------------|--------------------|--------|-----------------|--------------------|--------|-----------------|--------------------|--------|
| | | Catcher Vessels | Catcher Processors | Total | Catcher Vessels | Catcher Processors | Total | Catcher Vessels | Catcher Processors | Total |
| All Groundfish | 2017 | 286.94 | 412.91 | 699.85 | 182.45 | 24.41 | 206.86 | 469.39 | 437.32 | 906.71 |
| | 2018 | 326.46 | 459.03 | 785.49 | 149.56 | 17.54 | 167.10 | 476.02 | 476.57 | 952.59 |
| | 2019 | 350.02 | 446.05 | 796.07 | 125.39 | 16.04 | 141.43 | 475.41 | 462.09 | 937.50 |
| | 2020 | 308.88 | 364.84 | 673.72 | 84.81 | 8.10 | 92.90 | 393.69 | 372.94 | 766.63 |
| | 2021 | 299.41 | 329.88 | 629.29 | 115.93 | 11.97 | 127.90 | 415.34 | 341.85 | 757.19 |

Note Ex-vessel value is calculated by multiplying ex-vessel prices by the retained round weight catch. The value added by at-sea processing is not included in these estimates of ex-vessel value. All groundfish includes additional species categories. Values are not adjusted for inflation. "*" indicates a confidential value; "-" indicates no applicable data or value.

Source NMFS Alaska Region Blend and Catch-accounting System estimates. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.4: Discards and discard rates for groundfish catch off Alaska by gear, and species, 2017-2021 (1,000 metric tons, round weight).

| | Year | Fixed | | Trawl | | All Gear | |
|----------------|------|----------------|--------------|----------------|--------------|----------------|--------------|
| | | Total Discards | Discard Rate | Total Discards | Discard Rate | Total Discards | Discard Rate |
| Pollock | 2017 | 0.8 | 11.0 | 9.2 | 1.0 | 10.0 | 1.0 |
| | 2018 | 0.6 | 10.0 | 12.8 | 1.0 | 13.4 | 1.0 |
| | 2019 | 0.7 | 11.0 | 9.7 | 1.0 | 10.4 | 1.0 |
| | 2020 | 0.5 | 11.0 | 12.1 | 1.0 | 12.6 | 1.0 |
| | 2021 | 0.5 | 15.0 | 14.9 | 1.0 | 15.4 | 1.0 |
| Sablefish | 2017 | 0.8 | 7.0 | 0.6 | 27.0 | 1.4 | 11.0 |
| | 2018 | 1.0 | 8.0 | 1.9 | 51.0 | 2.9 | 19.0 |
| | 2019 | 1.7 | 14.0 | 2.7 | 52.0 | 4.4 | 25.0 |
| | 2020 | 1.1 | 9.0 | 4.1 | 56.0 | 5.2 | 26.0 |
| | 2021 | 1.1 | 6.0 | 2.3 | 48.0 | 3.4 | 15.0 |
| Pacific Cod | 2017 | 2.8 | 1.0 | 0.9 | 1.0 | 3.6 | 1.0 |
| | 2018 | 2.2 | 1.0 | 0.7 | 1.0 | 2.9 | 1.0 |
| | 2019 | 2.0 | 1.0 | 1.2 | 2.0 | 3.3 | 2.0 |
| | 2020 | 1.9 | 2.0 | 2.3 | 4.0 | 4.2 | 2.0 |
| | 2021 | 2.0 | 2.0 | 2.8 | 6.0 | 4.8 | 3.0 |
| Flatfish | 2017 | 3.6 | 72.0 | 11.9 | 5.0 | 15.5 | 6.0 |
| | 2018 | 3.5 | 83.0 | 13.3 | 6.0 | 16.9 | 7.0 |
| | 2019 | 2.7 | 76.0 | 9.6 | 4.0 | 12.3 | 5.0 |
| | 2020 | 2.0 | 80.0 | 9.7 | 4.0 | 11.8 | 5.0 |
| | 2021 | 1.9 | 97.0 | 8.1 | 5.0 | 10.0 | 6.0 |
| Rockfish | 2017 | 1.1 | 51.0 | 6.3 | 9.0 | 7.4 | 11.0 |
| | 2018 | 1.2 | 53.0 | 4.5 | 6.0 | 5.8 | 8.0 |
| | 2019 | 1.1 | 51.0 | 6.5 | 8.0 | 7.6 | 9.0 |
| | 2020 | 0.7 | 47.0 | 5.7 | 7.0 | 6.5 | 8.0 |
| | 2021 | 0.6 | 46.0 | 3.9 | 5.0 | 4.5 | 6.0 |
| Atka Mackerel | 2017 | 0.0 | 70.0 | 0.7 | 1.0 | 0.8 | 1.0 |
| | 2018 | 0.0 | 79.0 | 0.7 | 1.0 | 0.7 | 1.0 |
| | 2019 | 0.0 | 68.0 | 0.7 | 1.0 | 0.7 | 1.0 |
| | 2020 | 0.0 | 49.0 | 0.8 | 1.0 | 0.8 | 1.0 |
| | 2021 | 0.1 | 98.0 | 0.8 | 1.0 | 0.8 | 1.0 |
| All Groundfish | 2017 | 37.4 | 13.0 | 37.6 | 2.0 | 75.1 | 3.0 |
| | 2018 | 32.4 | 14.0 | 41.2 | 2.0 | 73.6 | 3.0 |
| | 2019 | 21.8 | 10.0 | 38.7 | 2.0 | 60.6 | 3.0 |
| | 2020 | 19.8 | 11.0 | 41.5 | 2.0 | 61.3 | 3.0 |
| | 2021 | 18.3 | 11.0 | 37.1 | 2.0 | 55.4 | 3.0 |

Note All groundfish and all gear may include additional species or gear types. Discards rates are calculated as $100 \times \text{discards} / (\text{total catch})$. See the seventh bullet in Section 2.2.6 for an explanation of 0 discards with positive discard rates. For details on discard estimation see Cahalan, J., J. Gasper, and J. Mondragon. 2014. Catch sampling and estimation in the federal groundfish fisheries off Alaska, 2015 edition. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-286, 46 p.

Source NMFS Alaska Region Blend and Catch-accounting System estimates. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.5: Prohibited species catch (PSC) by species, area and gear, 2017-2021 (metric tons (t) or number in 1,000s).

| | Gear | 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) |
|---------------------------------------|-------------|----------|-------------|-------------|------------------|-----------------------|------------------------|--------------------------|-----------------|-----------------------|
| Bering Sea And Aleutian Islands | Fixed | 2017 | 193.00 | 0.00 | 0.03 | 0.21 | 39.78 | 75.37 | 371.99 | 182.54 |
| | | 2018 | 133.00 | 0.00 | 0.07 | 0.18 | 350.52 | 48.06 | 275.49 | 77.38 |
| | | 2019 | 88.00 | 0.00 | 0.02 | 0.33 | 47.26 | 12.16 | 128.39 | 98.06 |
| | | 2020 | 94.00 | 0.00 | 0.02 | 0.13 | 23.26 | 10.60 | 90.65 | 163.65 |
| | | 2021 | 109.00 | 0.00 | 0.02 | 0.05 | 296.84 | 55.13 | 42.93 | 88.49 |
| | Trawl | 2017 | 1,771.00 | 1,021.00 | 36.25 | 471.25 | 60.42 | 10.59 | 353.01 | 159.68 |
| | | 2018 | 1,944.00 | 541.00 | 17.33 | 308.84 | 30.74 | 16.03 | 183.85 | 1,582.43 |
| | | 2019 | 2,266.00 | 1,182.00 | 31.44 | 358.48 | 70.14 | 33.95 | 344.00 | 941.30 |
| | | 2020 | 1,577.00 | 3,934.00 | 34.96 | 346.25 | 64.59 | 13.82 | 598.06 | 780.57 |
| | | 2021 | 1,427.00 | 1,878.00 | 15.88 | 550.65 | 40.73 | 17.09 | 588.47 | 247.22 |
| | All Gear | 2017 | 1,964.00 | 1,021.00 | 36.28 | 471.45 | 100.20 | 85.95 | 725.00 | 342.22 |
| | | 2018 | 2,076.00 | 541.00 | 17.40 | 309.02 | 381.26 | 64.10 | 459.34 | 1,659.81 |
| | | 2019 | 2,354.00 | 1,182.00 | 31.47 | 358.81 | 117.39 | 46.11 | 472.39 | 1,039.35 |
| | | 2020 | 1,671.00 | 3,934.00 | 34.98 | 346.38 | 87.86 | 24.42 | 688.72 | 944.22 |
| | | 2021 | 1,535.00 | 1,878.00 | 15.89 | 550.70 | 337.57 | 72.22 | 631.40 | 335.71 |
| Gulf Of Alaska | Fixed | 2017 | 15.00 | - | 0.06 | 0.07 | 0.0 | 0.09 | 4.14 | 0.01 |
| | | 2018 | 1.00 | - | 0.08 | 0.09 | 0.0 | 0.10 | 18.51 | 0.0 |
| | | 2019 | 1.00 | - | 0.0 | 0.26 | 0.0 | 0.20 | 29.94 | - |
| | | 2020 | * | - | - | 0.11 | - | 0.10 | 0.11 | 0.01 |
| | | 2021 | 12.00 | - | - | 0.15 | 0.01 | 0.11 | 30.38 | - |
| | Trawl | 2017 | 1,214.00 | 6.00 | 24.93 | 5.67 | - | 0.24 | 122.82 | - |
| | | 2018 | 1,192.00 | 45.00 | 17.00 | 9.15 | - | 0.32 | 235.73 | - |
| | | 2019 | 1,099.00 | 81.00 | 23.90 | 6.41 | - | 0.36 | 245.17 | - |
| | | 2020 | 788.00 | 67.00 | 11.75 | 3.32 | * | 0.06 | 623.01 | - |
| | | 2021 | 367.00 | 19.00 | 17.18 | 3.57 | * | 0.12 | 15.37 | - |
| All Gear | 2017 | 1,229.00 | 6.00 | 25.00 | 5.74 | 0.0 | 0.34 | 126.96 | 0.01 | |
| | 2018 | 1,193.00 | 45.00 | 17.08 | 9.24 | 0.0 | 0.42 | 254.24 | 0.0 | |
| | 2019 | 1,101.00 | 81.00 | 23.90 | 6.67 | 0.0 | 0.55 | 275.12 | - | |
| | 2020 | 788.00 | 67.00 | 11.75 | 3.44 | * | 0.17 | 623.12 | 0.01 | |
| | 2021 | 379.00 | 19.00 | 17.18 | 3.72 | 0.01 | 0.22 | 45.75 | - | |

Note These estimates include only catches counted against federal TACs. Totals may include additional categories. Totals include halibut mortality taken by Amendment 80 vessels under the Exempted Fishing Permit No. 2015-02. 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 for these fisheries. 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. Excludes PSC on halibut targets. Excludes PSC in state fisheries (sablefish and P. cod targets in state waters). For details on prohibited species catch estimation see Cahalan, J., J. Gasper, and J. Mondragon. 2014. Catch sampling and estimation in the federal groundfish fisheries off Alaska, 2015 edition. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-286, 46 p. “*” indicates a confidential value; “-” indicates no applicable data or value.

Source NMFS Alaska Region Blend and Catch-accounting System estimates. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.6: Catch and real ex-vessel value of the commercial fisheries off Alaska by species group and area, 2017-2021; calculations based on COAR (1,000 metric tons and \$ millions, base year = 2021).

| Year | | Bering Sea and Aleutian Islands | | Gulf of Alaska | | All Alaska | |
|------|-------------|---------------------------------|-------------|----------------|-----------|------------|-------------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| 2017 | Groundfish | 1,913.36 | \$ 762.61 | 301.90 | \$ 225.91 | 2,215.26 | \$ 988.52 |
| | Salmon | 115.41 | \$ 335.96 | 330.03 | \$ 473.94 | 445.44 | \$ 809.89 |
| | Halibut | 1.65 | \$ 20.89 | 7.02 | \$ 97.27 | 8.67 | \$ 118.16 |
| | Herring | 17.60 | \$ 2.61 | 13.25 | \$ 6.07 | 30.85 | \$ 8.68 |
| | Shellfish | 16.04 | \$ 175.75 | 2.75 | \$ 23.81 | 18.78 | \$ 199.56 |
| | Other | - | - | 1.00 | \$ 8.86 | 1.00 | \$ 8.86 |
| | All Species | 2,064.05 | \$ 1,297.80 | 655.95 | \$ 835.86 | 2,720.00 | \$ 2,133.66 |
| 2018 | Groundfish | 1,909.44 | \$ 838.67 | 238.83 | \$ 179.14 | 2,148.27 | \$ 1,017.81 |
| | Salmon | 116.17 | \$ 418.14 | 133.79 | \$ 283.67 | 249.97 | \$ 701.81 |
| | Halibut | 1.59 | \$ 16.48 | 6.73 | \$ 80.47 | 8.32 | \$ 96.94 |
| | Herring | 16.84 | \$ 2.44 | 3.70 | \$ 4.39 | 20.54 | \$ 6.82 |
| | Shellfish | 14.58 | \$ 172.15 | 4.64 | \$ 35.75 | 19.22 | \$ 207.90 |
| | Other | - | - | 1.40 | \$ 11.71 | 1.40 | \$ 11.71 |
| | All Species | 2,058.63 | \$ 1,447.88 | 389.08 | \$ 595.13 | 2,447.71 | \$ 2,043.00 |
| 2019 | Groundfish | 1,914.84 | \$ 837.32 | 207.70 | \$ 150.06 | 2,122.54 | \$ 987.38 |
| | Salmon | 116.70 | \$ 394.42 | 256.69 | \$ 334.44 | 373.38 | \$ 728.86 |
| | Halibut | 1.72 | \$ 16.10 | 6.97 | \$ 83.70 | 8.68 | \$ 99.80 |
| | Herring | 22.31 | \$ 2.41 | 0.94 | \$ 3.00 | 23.25 | \$ 5.41 |
| | Shellfish | 17.69 | \$ 203.66 | 5.84 | \$ 43.86 | 23.54 | \$ 247.52 |
| | Other | - | - | 1.48 | \$ 12.53 | 1.48 | \$ 12.53 |
| | All Species | 2,073.26 | \$ 1,453.91 | 479.62 | \$ 627.60 | 2,552.88 | \$ 2,081.50 |
| 2020 | Groundfish | 1,846.55 | \$ 702.21 | 182.21 | \$ 97.45 | 2,028.76 | \$ 799.66 |
| | Salmon | 98.93 | \$ 227.71 | 122.88 | \$ 164.20 | 221.81 | \$ 391.90 |
| | Halibut | 1.56 | \$ 13.14 | 6.43 | \$ 59.98 | 7.99 | \$ 73.12 |
| | Herring | 3.01 | \$ 0.52 | 1.79 | \$ 3.43 | 4.80 | \$ 3.95 |
| | Shellfish | 19.50 | \$ 206.05 | 6.92 | \$ 37.85 | 26.42 | \$ 243.90 |
| | Other | - | - | 1.25 | \$ 7.15 | 1.25 | \$ 7.15 |
| | All Species | 1,969.55 | \$ 1,149.63 | 321.47 | \$ 370.05 | 2,291.03 | \$ 1,519.67 |
| 2021 | Groundfish | 1,770.98 | \$ 629.58 | 179.89 | \$ 129.99 | 1,950.87 | \$ 759.57 |
| | Salmon | 99.89 | \$ 366.62 | 265.79 | \$ 362.71 | 365.69 | \$ 729.33 |
| | Halibut | 1.36 | \$ 17.68 | 7.66 | \$ 110.48 | 9.02 | \$ 128.17 |
| | Herring | 10.58 | \$ 1.46 | 17.70 | \$ 6.65 | 28.28 | \$ 8.11 |
| | Shellfish | 23.59 | \$ 299.71 | 5.04 | \$ 53.49 | 28.62 | \$ 353.19 |
| | Other | - | - | 1.39 | \$ 13.32 | 1.39 | \$ 13.32 |
| | All Species | 1,906.40 | \$ 1,315.05 | 477.47 | \$ 676.64 | 2,383.88 | \$ 1,991.69 |

Note These estimates include the value of catch from both federal and state of Alaska fisheries. The data have been adjusted to 2021 dollars by applying the Personal Consumption Expenditure Index at <https://research.stlouisfed.org/fred2/series/PCEPI> to account for affects of inflation on fishermen's revenue.

Source NMFS Alaska Region Blend and Catch-accounting System estimates; NMFS Alaska Region At-sea Production Reports; ADF&G Commercial Operators Annual Reports (COAR); and NMFS Office of Science and Technology, Fisheries Statistics Division, Fisheries of the United States. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.7: Production and real gross value of groundfish and non-groundfish products in the commercial fisheries of Alaska by species group and area of processing, 2017-2021 (1,000 metric tons product weight and \$ millions, base year = 2021).

| | | Bering Sea and Aleutian Islands | | Gulf of Alaska | | All Alaska | |
|------|-------------|------------------------------------|------------|----------------|------------|------------|------------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| 2017 | Groundfish | 823.7 | \$ 2,361.3 | 136.8 | \$ 402.5 | 960.5 | \$ 2,763.8 |
| | Salmon | 74.6 | \$ 668.2 | 258.0 | \$ 1,408.4 | 332.7 | \$ 2,076.6 |
| | Halibut | 1.2 | \$ 24.8 | 6.3 | \$ 125.3 | 7.5 | \$ 150.0 |
| | Herring | 16.9 | \$ 16.1 | 14.2 | \$ 14.7 | 31.1 | \$ 30.7 |
| | Crab | 11.4 | \$ 244.8 | 1.7 | \$ 32.1 | 13.2 | \$ 276.8 |
| | Other | - | - | 2.1 | \$ 35.4 | 2.1 | \$ 35.4 |
| | All Species | 927.8 | \$ 3,315.1 | 419.1 | \$ 2,018.3 | 1,347.0 | \$ 5,333.4 |
| 2018 | Groundfish | 823.2 | \$ 2,411.7 | 113.5 | \$ 318.9 | 936.7 | \$ 2,730.6 |
| | Salmon | 79.8 | \$ 798.4 | 133.1 | \$ 881.8 | 212.9 | \$ 1,680.2 |
| | Halibut | 0.9 | \$ 16.6 | 5.6 | \$ 102.1 | 6.5 | \$ 118.7 |
| | Herring | 12.7 | \$ 11.4 | 3.7 | \$ 9.0 | 16.4 | \$ 20.4 |
| | Crab | 9.6 | \$ 186.3 | 2.7 | \$ 56.7 | 12.2 | \$ 242.9 |
| | Other | - | - | 1.5 | \$ 20.1 | 1.5 | \$ 20.1 |
| | All Species | 926.1 | \$ 3,424.4 | 260.2 | \$ 1,388.6 | 1,186.3 | \$ 4,813.0 |
| 2019 | Groundfish | 831.4 | \$ 2,372.4 | 100.5 | \$ 273.3 | 931.9 | \$ 2,645.7 |
| | Salmon | 83.5 | \$ 772.2 | 205.2 | \$ 1,056.8 | 288.7 | \$ 1,829.0 |
| | Halibut | 1.1 | \$ 14.8 | 6.0 | \$ 99.9 | 7.1 | \$ 114.7 |
| | Herring | 19.2 | \$ 17.2 | 0.9 | \$ 4.9 | 20.2 | \$ 22.0 |
| | Crab | 12.8 | \$ 246.4 | 3.2 | \$ 66.0 | 16.0 | \$ 312.4 |
| | Other | 0.0 | \$ 0.1 | 1.6 | \$ 25.4 | 1.6 | \$ 25.5 |
| | All Species | 948.1 | \$ 3,423.1 | 317.4 | \$ 1,526.3 | 1,265.5 | \$ 4,949.3 |
| 2020 | Groundfish | 753.0 | \$ 1,993.4 | 82.9 | \$ 204.1 | 835.8 | \$ 2,197.5 |
| | Salmon | 60.5 | \$ 545.0 | 104.0 | \$ 711.9 | 164.5 | \$ 1,256.9 |
| | Halibut | 1.2 | \$ 13.4 | 4.4 | \$ 73.8 | 5.6 | \$ 87.2 |
| | Herring | 0.5 | \$ 0.6 | 4.1 | \$ 8.1 | 4.6 | \$ 8.7 |
| | Crab | 14.0 | \$ 235.0 | 4.0 | \$ 71.0 | 18.0 | \$ 306.0 |
| | Other | - | - | 1.1 | \$ 14.3 | 1.1 | \$ 14.3 |
| | All Species | 829.1 | \$ 2,787.4 | 200.4 | \$ 1,083.1 | 1,029.5 | \$ 3,870.5 |
| 2021 | Groundfish | 692.0 | \$ 1,894.9 | 73.3 | \$ 247.6 | 765.3 | \$ 2,142.4 |
| | Salmon | 64.8 | \$ 655.9 | 204.7 | \$ 1,260.9 | 269.6 | \$ 1,916.9 |
| | Halibut | 1.1 | \$ 18.3 | 6.4 | \$ 134.5 | 7.5 | \$ 152.8 |
| | Herring | 8.2 | \$ 10.4 | 22.6 | \$ 26.9 | 30.9 | \$ 37.3 |
| | Crab | 16.3 | \$ 363.2 | 3.7 | \$ 104.0 | 20.0 | \$ 467.1 |
| | Other | - | - | 1.0 | \$ 21.2 | 1.0 | \$ 21.2 |
| | All Species | 782.4 | \$ 2,942.6 | 311.7 | \$ 1,795.1 | 1,094.2 | \$ 4,737.7 |

Note These estimates include the value of catch from both federal and state of Alaska fisheries. The data have been adjusted to 2021 dollars by applying the Personal Consumption Expenditure Index at <https://research.stlouisfed.org/fred2/series/PCEPI> to account for affects of inflation on fishermen's revenue.

Source NMFS Alaska Region Blend and Catch-accounting System estimates; NMFS Alaska Region At-sea Production Reports; ADF&G Commercial Operators Annual Reports (COAR); and NMFS Office of Science and Technology, Fisheries Statistics Division, Fisheries of the United States. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.8: Percentage of ex-vessel value of the groundfish catch of Alaska by area, residency, and species, 2017-2021; calculations based on COAR.

| | Year | Bering Sea and Aleutian Islands | | Gulf of Alaska | | All Alaska | |
|----------------|------|---------------------------------|-------|----------------|-------|------------|-------|
| | | Alaska | Other | Alaska | Other | Alaska | Other |
| Pollock | 2017 | 5 % | 95 % | 48 % | 52 % | 9 % | 91 % |
| | 2018 | 6 % | 94 % | 46 % | 54 % | 10 % | 90 % |
| | 2019 | 8 % | 92 % | 48 % | 52 % | 11 % | 89 % |
| | 2020 | 4 % | 96 % | 52 % | 48 % | 7 % | 93 % |
| | 2021 | 8 % | 92 % | 50 % | 50 % | 11 % | 89 % |
| Sablefish | 2017 | 38 % | 62 % | 61 % | 39 % | 59 % | 41 % |
| | 2018 | 27 % | 73 % | 61 % | 39 % | 60 % | 40 % |
| | 2019 | 36 % | 64 % | 61 % | 39 % | 60 % | 40 % |
| | 2020 | 29 % | 71 % | 65 % | 35 % | 61 % | 39 % |
| | 2021 | 58 % | 42 % | 62 % | 38 % | 61 % | 39 % |
| Pacific Cod | 2017 | 24 % | 76 % | 71 % | 29 % | 31 % | 69 % |
| | 2018 | 23 % | 77 % | 70 % | 30 % | 26 % | 74 % |
| | 2019 | 27 % | 73 % | 71 % | 29 % | 30 % | 70 % |
| | 2020 | 28 % | 72 % | 84 % | 16 % | 29 % | 71 % |
| | 2021 | 28 % | 72 % | 73 % | 27 % | 34 % | 66 % |
| Flatfish | 2017 | 20 % | 80 % | 37 % | 63 % | 22 % | 78 % |
| | 2018 | 22 % | 78 % | 56 % | 44 % | 24 % | 76 % |
| | 2019 | 23 % | 77 % | 59 % | 41 % | 26 % | 74 % |
| | 2020 | 22 % | 78 % | 59 % | 41 % | 25 % | 75 % |
| | 2021 | 21 % | 79 % | 27 % | 73 % | 22 % | 78 % |
| Rockfish | 2017 | 22 % | 78 % | 40 % | 60 % | 29 % | 71 % |
| | 2018 | 21 % | 79 % | 38 % | 62 % | 28 % | 72 % |
| | 2019 | 22 % | 78 % | 37 % | 63 % | 29 % | 71 % |
| | 2020 | 22 % | 78 % | 43 % | 57 % | 30 % | 70 % |
| | 2021 | 23 % | 77 % | 44 % | 56 % | 32 % | 68 % |
| Atka Mackerel | 2017 | 27 % | 73 % | 29 % | 71 % | 27 % | 73 % |
| | 2018 | 27 % | 73 % | 17 % | 83 % | 26 % | 74 % |
| | 2019 | 27 % | 73 % | 14 % | 86 % | 27 % | 73 % |
| | 2020 | 27 % | 73 % | 14 % | 86 % | 27 % | 73 % |
| | 2021 | 26 % | 74 % | 6 % | 94 % | 25 % | 75 % |
| All Groundfish | 2017 | 14 % | 86 % | 58 % | 42 % | 24 % | 76 % |
| | 2018 | 14 % | 86 % | 56 % | 44 % | 22 % | 78 % |
| | 2019 | 16 % | 84 % | 56 % | 44 % | 22 % | 78 % |
| | 2020 | 13 % | 87 % | 59 % | 41 % | 19 % | 81 % |
| | 2021 | 14 % | 86 % | 58 % | 42 % | 22 % | 78 % |

Note These estimates include only catches counted against federal TACs. Ex-vessel value is calculate during prices on Table 18. Please refer to Table 18 for a description of the price derivation. Catch delivered to motherships is classified by the residency 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. Values are not adjusted for inflation.

Source NMFS Alaska Region Blend and Catch-accounting System estimates; NMFS Alaska Region At-sea Production Reports; ADF&G Commercial Operators Annual Reports (COAR); and NMFS Office of Science and Technology, Fisheries Statistics Division, Fisheries of the United States. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.9: Number of vessels that caught groundfish of Alaska by area, vessel category, gear, and target,2017-2021.

| | Year | Bering Sea and Aleutian Islands | | | Gulf of Alaska | | | All Alaska | | |
|---------------|------|---------------------------------|--------------------|-------|-----------------|--------------------|-------|-----------------|--------------------|-------|
| | | Catcher Vessels | Catcher Processors | Total | Catcher Vessels | Catcher Processors | Total | Catcher Vessels | Catcher Processors | Total |
| Pollock | 2017 | 87 | 31 | 118 | 65 | - | 65 | 133 | 31 | 164 |
| | 2018 | 85 | 27 | 112 | 69 | 2 | 71 | 133 | 28 | 161 |
| | 2019 | 84 | 30 | 114 | 62 | - | 62 | 125 | 30 | 155 |
| | 2020 | 88 | 29 | 117 | 60 | 1 | 61 | 131 | 29 | 160 |
| | 2021 | 86 | 32 | 118 | 57 | 2 | 59 | 126 | 33 | 159 |
| Sablefish | 2017 | 15 | 7 | 22 | 268 | 5 | 273 | 275 | 9 | 284 |
| | 2018 | 17 | 9 | 26 | 274 | 6 | 280 | 283 | 13 | 296 |
| | 2019 | 13 | 5 | 18 | 249 | 6 | 255 | 255 | 10 | 265 |
| | 2020 | 13 | 7 | 20 | 247 | 5 | 252 | 252 | 10 | 262 |
| | 2021 | 20 | 4 | 24 | 245 | 5 | 250 | 258 | 8 | 266 |
| Pacific Cod | 2017 | 128 | 45 | 173 | 238 | 9 | 247 | 331 | 45 | 376 |
| | 2018 | 144 | 49 | 193 | 149 | 3 | 152 | 265 | 50 | 315 |
| | 2019 | 149 | 47 | 196 | 173 | 3 | 176 | 301 | 47 | 348 |
| | 2020 | 151 | 38 | 189 | 100 | - | 100 | 246 | 38 | 284 |
| | 2021 | 115 | 31 | 146 | 184 | 2 | 186 | 277 | 31 | 308 |
| Flatfish | 2017 | 8 | 27 | 35 | 19 | 4 | 23 | 27 | 28 | 55 |
| | 2018 | 9 | 26 | 35 | 34 | 4 | 38 | 42 | 27 | 69 |
| | 2019 | 9 | 26 | 35 | 30 | 4 | 34 | 39 | 27 | 66 |
| | 2020 | 8 | 25 | 33 | 22 | 5 | 27 | 30 | 26 | 56 |
| | 2021 | 7 | 21 | 28 | 4 | 4 | 8 | 11 | 22 | 33 |
| Rockfish | 2017 | 3 | 16 | 19 | 127 | 11 | 138 | 130 | 19 | 149 |
| | 2018 | 4 | 21 | 25 | 110 | 9 | 119 | 114 | 24 | 138 |
| | 2019 | 5 | 22 | 27 | 105 | 9 | 114 | 110 | 24 | 134 |
| | 2020 | 6 | 18 | 24 | 90 | 8 | 98 | 96 | 22 | 118 |
| | 2021 | 4 | 21 | 25 | 74 | 7 | 81 | 78 | 23 | 101 |
| Atka Mackerel | 2017 | 4 | 12 | 16 | - | 1 | 1 | 4 | 13 | 17 |
| | 2018 | 4 | 14 | 18 | 1 | 2 | 3 | 5 | 16 | 21 |
| | 2019 | 4 | 14 | 18 | - | - | - | 4 | 14 | 18 |
| | 2020 | 3 | 13 | 16 | - | - | - | 3 | 13 | 16 |
| | 2021 | 4 | 14 | 18 | - | - | - | 4 | 14 | 18 |

Table 4.9: Number of vessels that caught groundfish of Alaska by area, vessel category, gear, and target,2017-2021. *(continued)*

| | Year | Bering Sea and Aleutian Islands | | | Gulf of Alaska | | | All Alaska | | |
|-------------|------|---------------------------------|--------------------|-------|-----------------|--------------------|-------|-----------------|--------------------|-------|
| | | Catcher Vessels | Catcher Processors | Total | Catcher Vessels | Catcher Processors | Total | Catcher Vessels | Catcher Processors | Total |
| All Targets | 2017 | 182 | 68 | 250 | 522 | 22 | 544 | 644 | 70 | 714 |
| | 2018 | 196 | 66 | 262 | 467 | 16 | 483 | 588 | 68 | 656 |
| | 2019 | 195 | 65 | 260 | 468 | 19 | 487 | 594 | 67 | 661 |
| | 2020 | 206 | 59 | 265 | 414 | 14 | 428 | 556 | 61 | 617 |
| | 2021 | 171 | 55 | 226 | 432 | 14 | 446 | 543 | 57 | 600 |

Note 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 Blend and Catch-accounting System estimates; NMFS Alaska Region At-sea Production Reports; ADF&G Commercial Operators Annual Reports (COAR); and NMFS Office of Science and Technology, Fisheries Statistics Division, Fisheries of the United States. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

4.2 Bering Sea & Aleutian Island Economic Data Tables

Table 4.10: Bering Sea and Aleutian Islands groundfish retained catch by vessel type, gear and species, 2020-2021 (1,000 metric tons, round weight).

| | Year | Catcher Vessels | | | | Catcher Processors | | | | Total | | | |
|---------------|------|-----------------|------|-------|----------|--------------------|-----|-------|----------|---------------|------|---------|----------|
| | | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear |
| Pollock | 2017 | - | - | 710.4 | 710.4 | - | - | 635.9 | 642.2 | - | - | 1,346.2 | 1,352.6 |
| | 2018 | - | - | 718.3 | 718.3 | - | - | 646.2 | 651.4 | - | - | 1,364.5 | 1,369.8 |
| | 2019 | - | - | 735.6 | 735.6 | - | - | 660.6 | 666.2 | - | - | 1,396.2 | 1,401.8 |
| | 2020 | - | - | 725.0 | 725.0 | - | - | 629.0 | 633.3 | - | - | 1,354.0 | 1,358.4 |
| | 2021 | - | - | 718.2 | 718.2 | - | - | 642.6 | 645.7 | - | - | 1,360.8 | 1,363.9 |
| Pacific Cod | 2017 | 0.1 | 43.2 | 44.7 | 88.0 | 124.3 | 5.8 | 31.9 | 162.1 | 124.4 | 49.0 | 76.7 | 250.0 |
| | 2018 | 0.9 | 42.2 | 39.3 | 82.5 | 100.9 | 4.3 | 30.3 | 135.5 | 101.8 | 46.5 | 69.6 | 217.9 |
| | 2019 | 1.2 | 43.1 | 33.3 | 77.5 | 88.6 | 4.2 | 25.6 | 118.3 | 89.8 | 47.3 | 58.8 | 195.8 |
| | 2020 | 1.0 | 35.8 | 31.6 | 68.3 | 73.6 | 3.4 | 22.1 | 99.0 | 74.5 | 39.2 | 53.6 | 167.4 |
| | 2021 | 0.2 | 30.5 | 21.9 | 52.6 | 58.9 | 2.3 | 18.1 | 79.4 | 59.1 | 32.8 | 40.1 | 132.0 |
| Sablefish | 2017 | 0.2 | * | 0.1 | 0.2 | 0.1 | * | 0.5 | 0.5 | 0.2 | * | 0.5 | 0.8 |
| | 2018 | 0.2 | 0.3 | 0.3 | 0.8 | 0.1 | * | 0.6 | 0.7 | 0.3 | 0.3 | 0.9 | 1.5 |
| | 2019 | 0.2 | 0.5 | 0.8 | 1.6 | 0.0 | * | 0.4 | 0.4 | 0.2 | 0.5 | 1.2 | 2.0 |
| | 2020 | 0.1 | 0.0 | 1.6 | 1.7 | 0.0 | * | 0.7 | 0.7 | 0.1 | 0.0 | 2.2 | 2.3 |
| | 2021 | 0.1 | 1.4 | 0.4 | 1.9 | 0.0 | * | 0.8 | 0.9 | 0.2 | 1.4 | 1.3 | 2.8 |
| Atka Mackerel | 2017 | - | - | 4.4 | 4.4 | - | - | 59.4 | 59.4 | - | - | 63.8 | 63.8 |
| | 2018 | - | - | 5.6 | 5.7 | - | - | 63.8 | 63.9 | - | - | 69.5 | 69.5 |
| | 2019 | - | - | 3.3 | 3.3 | - | - | 53.6 | 53.6 | - | - | 56.8 | 56.8 |
| | 2020 | - | - | 5.6 | 5.6 | - | - | 52.5 | 52.5 | - | - | 58.1 | 58.1 |
| | 2021 | - | - | 3.7 | 3.7 | - | - | 56.9 | 56.9 | - | - | 60.6 | 60.6 |
| Yellowfin | 2017 | - | - | 15.2 | 15.2 | 0.1 | - | 113.3 | 113.4 | 0.1 | - | 128.6 | 128.6 |
| | 2018 | - | - | 12.2 | 12.3 | 0.2 | - | 114.9 | 115.0 | 0.2 | - | 127.1 | 127.3 |
| | 2019 | - | - | 17.3 | 17.3 | 0.0 | - | 108.8 | 108.8 | 0.0 | - | 126.1 | 126.1 |
| | 2020 | - | - | 16.1 | 16.1 | * | - | 115.6 | 115.6 | * | - | 131.6 | 131.6 |
| | 2021 | - | - | 8.0 | 8.0 | * | - | 98.7 | 98.7 | * | - | 106.7 | 106.7 |
| Rock Sole | 2018 | * | - | 1.6 | 1.6 | 0.0 | - | 25.6 | 25.6 | 0.0 | - | 27.1 | 27.1 |
| | 2019 | * | - | 2.4 | 2.4 | 0.0 | - | 22.0 | 22.0 | 0.0 | - | 24.4 | 24.4 |
| | 2017 | - | - | 3.1 | 3.1 | 0.0 | - | 30.8 | 30.8 | 0.0 | - | 33.9 | 33.9 |
| | 2020 | - | - | 2.6 | 2.6 | * | - | 22.0 | 22.0 | * | - | 24.7 | 24.7 |
| | 2021 | - | - | 0.6 | 0.6 | * | - | 12.8 | 12.8 | * | - | 13.4 | 13.4 |
| Flathead Sole | 2019 | * | - | 0.8 | 0.8 | 0.0 | - | 14.1 | 14.1 | 0.0 | - | 14.9 | 14.9 |
| | 2017 | - | - | 0.6 | 0.6 | 0.0 | - | 7.5 | 7.5 | 0.0 | - | 8.1 | 8.1 |
| | 2018 | - | - | 0.8 | 0.8 | * | - | 9.4 | 9.4 | * | - | 10.2 | 10.2 |
| | 2020 | - | - | 1.0 | 1.1 | 0.0 | - | 7.2 | 7.2 | 0.0 | - | 8.3 | 8.3 |
| | 2021 | - | - | 0.7 | 0.7 | 0.0 | - | 8.7 | 8.8 | 0.0 | - | 9.5 | 9.5 |

Table 4.10: Bering Sea and Aleutian Islands groundfish retained catch by vessel type, gear and species, 2020-2021 (1,000 metric tons, round weight). *(continued)*

| | Year | Catcher Vessels | | | | Catcher Processors | | | | Total | | | |
|------------------------|------|-----------------|-----|-------|----------|--------------------|-----|-------|----------|---------------|-----|-------|----------|
| | | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear |
| Arrowtooth | 2017 | * | - | 0.1 | 0.1 | 0.3 | - | 5.2 | 5.5 | 0.3 | - | 5.4 | 5.7 |
| | 2018 | 0.0 | - | 0.2 | 0.2 | 0.2 | - | 5.6 | 5.7 | 0.2 | - | 5.8 | 6.0 |
| | 2020 | * | - | 0.3 | 0.3 | 0.1 | - | 9.4 | 9.5 | 0.1 | - | 9.7 | 9.8 |
| | 2021 | * | - | 0.2 | 0.2 | 0.0 | - | 7.7 | 7.8 | 0.0 | - | 8.0 | 8.0 |
| | 2019 | - | - | 0.6 | 0.6 | 0.2 | - | 8.3 | 8.5 | 0.2 | - | 8.9 | 9.1 |
| Kamchatka Flounder | 2020 | * | - | 0.2 | 0.2 | 0.0 | - | 6.9 | 7.0 | 0.0 | - | 7.2 | 7.2 |
| | 2017 | - | - | 0.1 | 0.1 | 0.0 | - | 4.1 | 4.1 | 0.0 | - | 4.2 | 4.2 |
| | 2018 | - | - | 0.0 | 0.0 | 0.0 | - | 2.8 | 2.9 | 0.0 | - | 2.9 | 2.9 |
| | 2019 | - | - | 0.1 | 0.1 | 0.0 | - | 4.1 | 4.1 | 0.0 | - | 4.2 | 4.2 |
| | 2021 | - | - | 0.0 | 0.0 | 0.0 | - | 6.4 | 6.4 | 0.0 | - | 6.4 | 6.4 |
| Turbot | 2019 | * | - | 0.0 | 0.0 | 0.5 | - | 2.2 | 2.8 | 0.5 | - | 2.3 | 2.8 |
| | 2020 | * | - | 0.0 | 0.0 | 0.3 | - | 1.9 | 2.1 | 0.3 | - | 1.9 | 2.1 |
| | 2021 | * | - | 0.0 | 0.0 | 0.0 | - | 1.5 | 1.5 | 0.0 | - | 1.5 | 1.5 |
| | 2017 | - | - | 0.0 | 0.0 | 0.9 | - | 1.8 | 2.7 | 0.9 | - | 1.8 | 2.7 |
| | 2018 | - | - | 0.0 | 0.0 | 0.3 | - | 1.5 | 1.7 | 0.3 | - | 1.5 | 1.7 |
| Other Flatfish | 2020 | * | - | 3.5 | 3.5 | 0.0 | - | 16.2 | 16.2 | 0.0 | - | 19.7 | 19.7 |
| | 2017 | - | - | 2.0 | 2.0 | * | - | 13.4 | 13.4 | * | - | 15.4 | 15.4 |
| | 2018 | - | - | 1.7 | 1.7 | * | - | 20.5 | 20.5 | * | - | 22.2 | 22.2 |
| | 2019 | - | - | 2.4 | 2.4 | 0.0 | - | 14.3 | 14.3 | 0.0 | - | 16.7 | 16.7 |
| | 2021 | - | - | 1.1 | 1.1 | * | - | 14.4 | 14.4 | * | - | 15.4 | 15.4 |
| Pacific Ocean Perch | 2018 | * | - | 3.0 | 3.0 | 0.0 | - | 29.4 | 29.4 | 0.0 | - | 32.4 | 32.4 |
| | 2019 | * | - | 4.4 | 4.4 | 0.0 | - | 35.4 | 35.4 | 0.0 | - | 39.8 | 39.8 |
| | 2020 | * | - | 4.4 | 4.4 | * | - | 33.1 | 33.1 | * | - | 37.5 | 37.5 |
| | 2017 | - | - | 2.3 | 2.3 | 0.0 | - | 28.0 | 28.0 | 0.0 | - | 30.3 | 30.3 |
| | 2021 | - | - | 2.1 | 2.1 | * | - | 31.6 | 31.6 | * | - | 33.7 | 33.7 |
| Northern Rockfish | 2018 | * | - | 0.4 | 0.4 | 0.0 | - | 4.8 | 4.9 | 0.0 | - | 5.2 | 5.2 |
| | 2021 | * | - | 0.2 | 0.2 | * | - | 5.5 | 5.5 | * | - | 5.6 | 5.6 |
| | 2017 | - | - | 0.2 | 0.2 | 0.0 | - | 4.2 | 4.2 | 0.0 | - | 4.4 | 4.4 |
| | 2019 | - | - | 0.4 | 0.4 | * | - | 8.2 | 8.2 | * | - | 8.6 | 8.6 |
| | 2020 | - | - | 0.8 | 0.8 | 0.0 | - | 6.5 | 6.5 | 0.0 | - | 7.3 | 7.3 |
| Other Rockfish | 2017 | 0.0 | - | 0.0 | 0.1 | 0.0 | - | 0.7 | 0.8 | 0.1 | - | 0.8 | 0.8 |
| | 2018 | 0.0 | - | 0.1 | 0.1 | 0.0 | - | 1.0 | 1.0 | 0.1 | - | 1.0 | 1.1 |
| | 2019 | 0.0 | - | 0.1 | 0.1 | 0.0 | - | 1.3 | 1.3 | 0.0 | - | 1.3 | 1.4 |
| | 2020 | 0.0 | - | 0.1 | 0.1 | 0.0 | - | 1.1 | 1.1 | 0.0 | - | 1.1 | 1.2 |
| | 2021 | 0.0 | - | 0.0 | 0.0 | 0.0 | - | 1.2 | 1.2 | 0.0 | - | 1.2 | 1.3 |

Table 4.10: Bering Sea and Aleutian Islands groundfish retained catch by vessel type, gear and species, 2020-2021 (1,000 metric tons, round weight). (*continued*)

| | Year | Catcher Vessels | | | | Catcher Processors | | | | Total | | | |
|------------------|------|-----------------|-----|-------|----------|--------------------|-----|-------|----------|---------------|-----|---------|----------|
| | | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear |
| Other Groundfish | 2017 | * | - | 1.0 | 1.1 | 7.7 | - | 1.7 | 9.4 | 7.7 | - | 2.7 | 10.5 |
| | 2018 | 0.0 | - | 1.6 | 1.8 | 9.5 | - | 2.5 | 12.0 | 9.5 | - | 4.2 | 13.8 |
| | 2019 | 0.0 | - | 0.5 | 0.7 | 6.3 | - | 2.7 | 9.1 | 6.4 | - | 3.2 | 9.7 |
| | 2020 | 0.0 | - | 0.5 | 0.6 | 6.6 | - | 1.9 | 8.4 | 6.6 | - | 2.3 | 9.1 |
| | 2021 | 0.0 | - | 0.4 | 0.4 | 6.2 | - | 2.2 | 8.5 | 6.2 | - | 2.6 | 8.9 |
| All Groundfish | 2017 | 0.3 | - | 784.2 | 827.8 | 139.8 | - | 938.4 | 1,084.0 | 140.0 | - | 1,722.7 | 1,911.8 |
| | 2018 | 1.2 | - | 785.2 | 829.2 | 116.3 | - | 959.0 | 1,079.6 | 117.5 | - | 1,744.2 | 1,908.7 |
| | 2019 | 1.4 | - | 801.9 | 847.1 | 101.4 | - | 961.5 | 1,067.1 | 102.8 | - | 1,763.5 | 1,914.2 |
| | 2020 | 1.1 | - | 793.4 | 830.4 | 85.0 | - | 925.9 | 1,014.3 | 86.1 | - | 1,719.3 | 1,844.7 |
| | 2021 | 0.3 | - | 757.6 | 789.9 | 68.3 | - | 909.2 | 979.9 | 68.7 | - | 1,666.9 | 1,769.8 |

Note The estimates are of retained catch (i.e., excludes discarded catch). All groundfish include additional species categories. These estimates include only catch counted against federal TACs. Includes FMP groundfish catch on halibut targets. "*" indicates a confidential value; "-" indicates no applicable data or value.

Source NMFS Alaska Region Blend and Catch-accounting System estimates; NMFS Alaska Region At-sea Production Reports; ADF&G Commercial Operators Annual Reports (COAR); and NMFS Office of Science and Technology, Fisheries Statistics Division, Fisheries of the United States. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.11: Bering Sea & Aleutian Islands groundfish retained catch by vessel type, gear and species, Catcher Vessels 2020-2021 (1,000 metric tons, round weight).

| Gear | Target | Pollock | Sablefish | Pacific Cod | Arrowtooth | Kamchatka Flounder | Flathead Sole | Rock Sole | Turbot | Yellowfin | Flat Other | Rockfish | Atka Mackerel | Other | All Species | |
|------------------------------|--------|------------------|-----------|-------------|------------|-----------------------|------------------|--------------|--------|-----------|---------------|----------|------------------|-------|----------------|-------|
| Hook And Line | 2020 | Sablefish | - | * | - | - | - | - | - | - | - | * | - | - | * | |
| | | Pacific Cod | * | * | 0.9 | * | - | - | - | - | * | * | - | * | 0.9 | |
| | | All Targets | * | 0.1 | 1.0 | * | * | - | - | * | - | * | 0.0 | - | 0.0 | 1.1 |
| | 2021 | Sablefish | - | * | - | - | - | - | - | - | - | - | * | - | * | |
| | | Pacific Cod | * | - | 0.2 | - | - | - | - | - | - | - | - | - | - | 0.2 |
| | | All Targets | * | 0.1 | 0.2 | * | - | - | - | * | - | - | 0.0 | - | 0.0 | 0.3 |
| Pot | 2020 | Sablefish | - | * | * | * | - | - | * | - | - | * | - | - | * | |
| | | Pacific Cod | 0.0 | 0.0 | 35.8 | * | - | 0.0 | * | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 36.0 |
| | | Rockfish | - | - | - | - | - | - | - | - | - | - | * | - | - | * |
| | | All Targets | 0.0 | 0.0 | 35.8 | * | - | 0.0 | * | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 36.0 |
| | 2021 | Sablefish | - | 1.4 | * | * | - | - | - | - | - | - | * | - | - | 1.4 |
| | | All Targets | 0.0 | 1.4 | 30.5 | * | - | 0.0 | * | - | 0.0 | * | * | 0.0 | 0.0 | 30.5 |
| Trawl | 2020 | Pollock, Bottom | 27.4 | 0.4 | 0.8 | 0.0 | * | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.8 | 0.3 | 0.0 | 30.2 |
| | | Pollock, Pelagic | 694.5 | 1.0 | 4.3 | 0.2 | 0.0 | 0.6 | 0.2 | 0.0 | 0.0 | 0.3 | 1.1 | 0.1 | 0.2 | 702.5 |
| | | Pacific Cod | 0.3 | 0.0 | 23.7 | 0.0 | * | 0.0 | 0.1 | * | 0.1 | 0.0 | * | * | 0.0 | 24.3 |
| | | Flathead Sole | * | - | * | - | * | * | * | - | * | * | - | - | * | * |
| | | Rock Sole | 0.4 | - | 0.5 | 0.0 | * | 0.0 | 0.9 | - | 1.1 | 0.5 | - | - | 0.0 | 3.3 |
| | | Yellowfin | 2.1 | - | 1.8 | 0.1 | 0.0 | 0.3 | 1.5 | * | 14.7 | 2.6 | - | - | 0.1 | 23.3 |
| | | Other Flatfish | * | - | * | - | - | * | * | - | * | * | - | - | * | * |
| | | Rockfish | 0.2 | 0.1 | 0.1 | 0.0 | 0.2 | * | * | * | - | 0.0 | 2.2 | 0.5 | 0.0 | 3.4 |
| | | Atka Mackerel | 0.1 | 0.0 | 0.5 | 0.0 | 0.0 | - | 0.0 | * | * | * | 1.1 | 4.7 | 0.1 | 6.5 |
| | | All Targets | 725.0 | 1.6 | 31.6 | 0.3 | 0.2 | 1.0 | 2.6 | 0.0 | 16.1 | 3.5 | 5.3 | 5.6 | 0.5 | 793.4 |
| | 2021 | Pollock, Bottom | 13.5 | 0.1 | 0.7 | 0.0 | - | 0.0 | 0.0 | * | 0.0 | 0.0 | 0.1 | 0.3 | 0.0 | 14.8 |
| | | Pollock, Pelagic | 702.9 | 0.3 | 3.0 | 0.1 | * | 0.4 | 0.1 | 0.0 | 0.0 | 0.1 | 0.4 | 0.2 | 0.2 | 707.6 |
| | | Pacific Cod | 0.3 | * | 17.0 | 0.0 | - | 0.0 | 0.0 | - | 0.0 | 0.0 | 0.0 | * | 0.0 | 17.4 |
| | | Flathead Sole | 0.0 | - | 0.0 | 0.0 | * | 0.1 | 0.0 | - | 0.1 | 0.0 | - | - | * | 0.3 |
| | | Rock Sole | * | - | * | - | * | * | * | - | * | * | - | - | * | * |
| | | Yellowfin | 1.1 | - | 0.9 | 0.1 | 0.0 | 0.2 | 0.5 | - | 7.9 | 0.9 | - | - | 0.2 | 11.8 |
| Other Flatfish | | * | - | * | - | - | - | * | - | * | * | - | - | * | * | |
| All Targets | | 718.2 | 0.4 | 21.9 | 0.2 | 0.0 | 0.7 | 0.6 | 0.0 | 8.0 | 1.1 | 2.3 | 3.7 | 0.4 | 757.6 | |
| All Gear | 2020 | All Targets | 725.0 | 1.7 | 68.3 | 0.3 | 0.2 | 1.1 | 2.6 | 0.0 | 16.1 | 3.5 | 5.3 | 5.6 | 830.4 | |
| | 2021 | All Targets | 718.2 | 1.9 | 52.6 | 0.2 | 0.0 | 0.7 | 0.6 | 0.0 | 8.0 | 1.1 | 2.3 | 3.7 | 789.9 | |

Note The estimates are of retained catch (i.e., excludes discarded catch). All groundfish include additional species categories. These estimates include only catch counted against federal TACs. Includes FMP groundfish catch on halibut targets. "*" indicates a confidential value; "-" indicates no applicable data or value.

Source NMFS Alaska Region Blend and Catch-accounting System estimates. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.12: Bering Sea & Aleutian Islands groundfish retained catch by vessel type, gear and species, Catcher Processors 2020-2021 (1,000 metric tons, round weight).

| Gear | Target | Pollock | Sablefish | Pacific Cod | Arrowtooth Flounder | Kamchatka Flathead Sole | Rock Sole | Turbot | Yellowfin | Flat Other | Rockfish | Atka Mackerel | Other | All Species | |
|----------------------|--------------------|---------|-----------|-------------|---------------------|-------------------------|-----------|--------|-----------|------------|----------|---------------|-------|-------------|-------|
| Hook And Line | Pollock, Bottom | * | - | * | - | - | - | - | - | - | - | - | - | * | |
| | Sablefish | * | 0.0 | * | * | - | - | * | - | - | * | - | * | 0.0 | |
| | Pacific Cod | 4.3 | * | 73.6 | 0.1 | 0.0 | 0.0 | 0.1 | * | 0.0 | 0.0 | 0.0 | 6.6 | 84.7 | |
| | 2020 Turbot | * | * | * | * | * | - | 0.2 | - | - | 0.0 | - | * | 0.2 | |
| | Rockfish | - | - | - | - | - | * | * | - | - | * | - | - | * | |
| | Halibut | - | - | * | - | - | - | - | - | - | - | - | - | - | * |
| | All Targets | 4.3 | 0.0 | 73.6 | 0.1 | 0.0 | 0.0 | 0.3 | * | * | 0.0 | 0.0 | 0.0 | 6.6 | 85.0 |
| | Pollock, Bottom | * | - | * | - | - | - | - | - | - | - | - | - | * | * |
| | Sablefish | * | * | * | * | - | - | - | * | - | - | * | - | * | * |
| | 2021 Pacific Cod | 3.1 | 0.0 | 58.9 | 0.0 | 0.0 | 0.0 | * | 0.0 | * | * | 0.0 | * | 6.2 | 68.3 |
| Rockfish | * | * | * | - | - | - | - | * | - | - | * | - | * | * | |
| Halibut | - | - | * | - | - | - | - | - | - | - | - | - | - | * | |
| All Targets | 3.1 | 0.0 | 58.9 | 0.0 | 0.0 | 0.0 | * | 0.0 | * | * | 0.0 | * | 6.2 | 68.3 | |
| Pot | Sablefish | - | * | - | - | - | - | - | - | - | - | - | - | * | |
| | 2020 Pacific Cod | * | * | 3.4 | - | - | - | - | - | - | - | - | * | 3.4 | |
| | All Targets | * | * | 3.4 | - | - | - | - | - | - | - | - | * | 3.4 | |
| | Sablefish | - | * | - | - | - | - | - | - | - | - | - | - | * | |
| | 2021 Pacific Cod | * | - | 2.3 | - | - | - | - | - | - | * | - | * | 2.3 | |
| | All Targets | * | * | 2.3 | - | - | - | - | - | - | * | - | * | 2.3 | |
| | Pollock, Bottom | 23.4 | 0.0 | 0.7 | 0.4 | 0.1 | 0.4 | 0.3 | 0.1 | 0.8 | 0.2 | 1.6 | 0.0 | 0.1 | 28.0 |
| | Pollock, Pelagic | 574.6 | 0.0 | 2.6 | 0.1 | 0.0 | 0.7 | 0.2 | 0.0 | 0.1 | 0.1 | 0.7 | 0.0 | 0.2 | 579.4 |
| | Sablefish | 0.0 | 0.0 | - | 0.0 | 0.0 | 0.0 | - | 0.0 | - | 0.0 | 0.0 | - | - | 0.1 |
| | Pacific Cod | 0.2 | - | 1.1 | 0.0 | 0.0 | 0.0 | 0.3 | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 |
| | Arrowtooth | 0.6 | 0.1 | 0.2 | 3.9 | 1.0 | 0.5 | 0.0 | 0.2 | 0.1 | 0.3 | 0.4 | 0.0 | 0.1 | 7.5 |
| | Kamchatka Flounder | 0.6 | 0.4 | 0.0 | 1.6 | 4.7 | 0.1 | 0.0 | 0.8 | * | 0.1 | 1.1 | * | 0.0 | 9.3 |
| | 2020 Rock Sole | 4.4 | * | 4.1 | 0.1 | 0.0 | 0.3 | 11.7 | * | 9.0 | 1.9 | 0.0 | - | 0.1 | 31.7 |
| | Turbot | 0.1 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 0.0 | 0.5 | * | 0.0 | 0.0 | - | 0.0 | 1.4 |
| | Yellowfin | 21.9 | 0.0 | 10.1 | 1.8 | 0.1 | 3.0 | 9.0 | 0.0 | 104.7 | 12.7 | * | - | 0.9 | 164.3 |
| | Other Flatfish | 0.1 | * | 0.1 | * | * | 0.1 | 0.1 | * | 0.1 | 0.4 | * | * | * | 0.9 |
| | Rockfish | 1.6 | 0.1 | 0.8 | 0.5 | 0.5 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 27.1 | 7.9 | 0.1 | 38.8 |
| | Atka Mackerel | 0.4 | 0.0 | 1.7 | 0.2 | 0.2 | 0.0 | 0.0 | * | * | 0.0 | 9.8 | 44.5 | 0.2 | 57.0 |
| | All Targets | 629.0 | 0.7 | 22.1 | 9.4 | 6.9 | 7.2 | 22.0 | 1.9 | 115.6 | 16.2 | 40.7 | 52.5 | 1.9 | 925.9 |

Table 4.12: Bering Sea & Aleutian Islands groundfish retained catch by vessel type, gear and species, Catcher Processors 2020-2021 (1,000 metric tons, round weight). *(continued)*

| Gear | Target | Pollock | Sablefish | Pacific Cod | Arrowtooth Flounder | Kamchatka Flathead Sole | Rock Sole | Turbot | Yellowfin | Flat Other | Rockfish | Atka Mackerel | Other | All Species | |
|---------------|-------------------------|---------|-----------|-------------|---------------------|-------------------------|-----------|--------|-----------|------------|----------|---------------|-------|-------------|---------|
| Trawl | Pollock, Bottom | 33.9 | * | 2.0 | 0.2 | 0.0 | 0.3 | 0.3 | 0.0 | 0.7 | 0.1 | 0.4 | * | 0.2 | 38.2 |
| | Pollock, Pelagic | 586.6 | 0.0 | 1.9 | 0.1 | 0.0 | 0.6 | 0.3 | 0.0 | 0.1 | 0.1 | 0.9 | 0.0 | 0.2 | 590.8 |
| | Sablefish | * | * | - | * | * | * | * | * | * | * | * | - | * | * |
| | Pacific Cod | 0.2 | * | 1.4 | 0.0 | 0.0 | 0.2 | 0.2 | * | 0.0 | 0.0 | * | * | 0.0 | 1.9 |
| | Arrowtooth | 0.6 | 0.1 | 0.2 | 2.9 | 0.5 | 0.5 | 0.0 | 0.2 | * | 0.3 | 0.3 | 0.0 | 0.1 | 5.8 |
| | Kamchatka Flounder | 0.4 | 0.3 | 0.0 | 1.2 | 4.7 | * | * | 0.5 | - | 0.0 | 0.9 | 0.1 | 0.0 | 8.1 |
| | <i>2021</i> Rock Sole | 1.5 | - | 1.3 | 0.2 | 0.0 | 0.1 | 4.3 | - | 4.3 | 1.4 | * | - | 0.1 | 13.1 |
| | Turbot | 0.0 | * | 0.0 | 0.1 | 0.1 | 0.1 | * | 0.3 | - | 0.1 | 0.1 | * | * | 0.8 |
| | Yellowfin | 15.2 | - | 7.7 | 1.2 | 0.1 | 2.7 | 7.1 | 0.0 | 91.2 | 9.9 | 0.0 | * | 1.3 | 136.2 |
| | Other Flatfish | 0.6 | 0.0 | 0.2 | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.9 | 1.9 | 0.1 | - | 0.0 | 4.1 |
| Rockfish | 1.7 | 0.2 | 0.9 | 0.5 | 0.5 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 24.7 | 6.7 | 0.1 | 35.5 | |
| Atka Mackerel | 0.3 | 0.1 | 1.5 | 0.2 | 0.2 | 0.0 | 0.0 | 0.1 | * | 0.0 | 10.7 | 50.1 | 0.2 | 63.4 | |
| All Targets | 642.6 | 0.8 | 18.1 | 7.7 | 6.4 | 8.7 | 12.8 | 1.5 | 98.7 | 14.4 | 38.3 | 56.9 | 2.2 | 909.2 | |
| All | <i>2020</i> All Targets | 633.3 | 0.7 | 99.0 | 9.5 | 7.0 | 7.2 | 22.0 | 2.1 | 115.6 | 16.2 | 40.7 | 52.5 | 8.4 | 1,014.3 |
| Gear | <i>2021</i> All Targets | 645.7 | 0.9 | 79.4 | 7.8 | 6.4 | 8.8 | 12.8 | 1.5 | 98.7 | 14.4 | 38.3 | 56.9 | 8.5 | 979.9 |

Note The estimates are of retained catch (i.e., excludes discarded catch). All groundfish include additional species categories. These estimates include only catch counted against federal TACs. Includes FMP groundfish catch on halibut targets. "*" indicates a confidential value; "-" indicates no applicable data or value.

Source NMFS Alaska Region Blend and Catch-accounting System estimates. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.13: Bering Sea & Aleutian Islands ex-vessel prices in the groundfish fisheries by gear, and species, 2020-2021; calculations based on COAR (\$/lb, round weight).

| | Year | Shoreside | | | At Sea | | | All Sectors | | |
|---------------|------|-----------|-------|----------|--------|-------|----------|-------------|-------|----------|
| | | Fixed | Trawl | All Gear | Fixed | Trawl | All Gear | Fixed | Trawl | All Gear |
| Pollock | 2017 | 0.01 | 0.14 | 0.14 | 0.01 | 0.10 | 0.10 | 0.01 | 0.12 | 0.12 |
| | 2018 | 0.14 | 0.16 | 0.16 | 0.14 | 0.12 | 0.12 | 0.14 | 0.14 | 0.14 |
| | 2019 | 0.16 | 0.17 | 0.17 | 0.16 | 0.13 | 0.13 | 0.16 | 0.14 | 0.14 |
| | 2020 | 0.01 | 0.15 | 0.15 | 0.01 | 0.11 | 0.11 | 0.01 | 0.13 | 0.13 |
| | 2021 | 0.06 | 0.16 | 0.16 | 0.06 | 0.12 | 0.12 | 0.06 | 0.14 | 0.14 |
| Pacific Cod | 2017 | 0.33 | 0.29 | 0.32 | 0.34 | 0.28 | 0.33 | 0.34 | 0.29 | 0.32 |
| | 2018 | 0.41 | 0.38 | 0.40 | 0.44 | 0.35 | 0.41 | 0.43 | 0.36 | 0.41 |
| | 2019 | 0.44 | 0.37 | 0.42 | 0.48 | 0.35 | 0.44 | 0.47 | 0.36 | 0.43 |
| | 2020 | 0.42 | 0.35 | 0.39 | 0.43 | 0.31 | 0.40 | 0.43 | 0.32 | 0.40 |
| | 2021 | 0.39 | 0.34 | 0.37 | 0.34 | 0.30 | 0.32 | 0.35 | 0.32 | 0.34 |
| Sablefish | 2017 | 3.98 | 1.17 | 3.77 | 3.98 | 1.17 | 1.86 | 3.98 | 1.17 | 2.74 |
| | 2018 | 2.12 | 0.81 | 1.69 | 2.12 | 0.81 | 1.27 | 2.12 | 0.81 | 1.47 |
| | 2019 | 1.92 | 0.75 | 1.30 | 1.92 | 0.75 | 1.01 | 1.92 | 0.75 | 1.21 |
| | 2020 | 1.50 | 0.67 | 0.94 | 1.50 | 0.67 | 0.98 | 1.50 | 0.67 | 0.95 |
| | 2021 | 1.96 | 0.77 | 1.72 | 1.96 | 0.77 | 1.21 | 1.96 | 0.77 | 1.49 |
| Atka Mackerel | 2017 | 0.01 | 0.36 | 0.35 | 0.01 | 0.36 | 0.36 | 0.01 | 0.36 | 0.36 |
| | 2018 | 0.20 | 0.35 | 0.35 | 0.20 | 0.35 | 0.35 | 0.20 | 0.35 | 0.35 |
| | 2019 | 0.01 | 0.28 | 0.28 | * | 0.28 | 0.28 | 0.01 | 0.28 | 0.28 |
| | 2020 | 0.01 | 0.26 | 0.26 | 0.01 | 0.26 | 0.26 | 0.01 | 0.26 | 0.26 |
| | 2021 | 0.02 | 0.22 | 0.22 | * | 0.22 | 0.22 | 0.02 | 0.22 | 0.22 |
| Yellowfin | 2017 | 0.01 | 0.20 | 0.18 | 0.01 | 0.20 | 0.20 | 0.01 | 0.20 | 0.20 |
| | 2018 | 0.01 | 0.22 | 0.18 | 0.01 | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 |
| | 2019 | 0.01 | 0.22 | 0.10 | 0.01 | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 |
| | 2020 | 0.01 | 0.18 | 0.12 | * | 0.18 | 0.18 | 0.01 | 0.18 | 0.18 |
| | 2021 | 0.01 | 0.15 | 0.14 | * | 0.15 | 0.15 | 0.01 | 0.15 | 0.15 |
| Rock Sole | 2017 | 0.01 | 0.20 | 0.20 | 0.01 | 0.20 | 0.20 | 0.01 | 0.20 | 0.20 |
| | 2018 | 0.01 | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 |
| | 2019 | 0.01 | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 |
| | 2020 | * | 0.18 | 0.18 | * | 0.18 | 0.18 | * | 0.18 | 0.18 |
| | 2021 | * | 0.15 | 0.15 | * | 0.15 | 0.15 | * | 0.15 | 0.15 |

Table 4.13: Bering Sea & Aleutian Islands ex-vessel prices in the groundfish fisheries by gear, and species, 2020-2021; calculations based on COAR (\$/lb, round weight). *(continued)*

| | Year | Shoreside | | | At Sea | | | All Sectors | | |
|---------------------|------|-----------|-------|----------|--------|-------|----------|-------------|-------|----------|
| | | Fixed | Trawl | All Gear | Fixed | Trawl | All Gear | Fixed | Trawl | All Gear |
| Flathead Sole | 2017 | 0.01 | 0.20 | 0.20 | 0.01 | 0.20 | 0.20 | 0.01 | 0.20 | 0.20 |
| | 2018 | 0.01 | 0.22 | 0.22 | * | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 |
| | 2019 | 0.01 | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 |
| | 2020 | 0.01 | 0.18 | 0.17 | 0.01 | 0.18 | 0.18 | 0.01 | 0.18 | 0.18 |
| | 2021 | 0.01 | 0.15 | 0.15 | 0.01 | 0.15 | 0.15 | 0.01 | 0.15 | 0.15 |
| Arrowtooth | 2017 | * | 0.20 | 0.20 | 0.01 | 0.20 | 0.19 | 0.01 | 0.20 | 0.19 |
| | 2018 | 0.01 | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 |
| | 2019 | * | 0.22 | 0.22 | 0.01 | 0.22 | 0.21 | 0.01 | 0.22 | 0.21 |
| | 2020 | 0.01 | 0.18 | 0.17 | 0.01 | 0.18 | 0.17 | 0.01 | 0.18 | 0.17 |
| | 2021 | 0.01 | 0.15 | 0.15 | 0.01 | 0.15 | 0.15 | 0.01 | 0.15 | 0.15 |
| Kamchatka Flounder | 2018 | - | * | * | 0.01 | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 |
| | 2019 | - | * | * | 0.01 | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 |
| | 2020 | * | * | * | 0.01 | 0.18 | 0.18 | 0.01 | 0.18 | 0.18 |
| | 2017 | - | - | - | 0.01 | 0.20 | 0.20 | 0.01 | 0.20 | 0.20 |
| | 2021 | - | - | - | 0.01 | 0.15 | 0.15 | 0.01 | 0.15 | 0.15 |
| Turbot | 2017 | - | 0.20 | 0.20 | 0.01 | 0.20 | 0.14 | 0.01 | 0.20 | 0.14 |
| | 2018 | - | 0.22 | 0.22 | 0.01 | 0.22 | 0.19 | 0.01 | 0.22 | 0.19 |
| | 2019 | * | 0.22 | 0.22 | 0.01 | 0.22 | 0.18 | 0.01 | 0.22 | 0.18 |
| | 2020 | * | 0.18 | 0.18 | 0.01 | 0.18 | 0.16 | 0.01 | 0.18 | 0.16 |
| | 2021 | * | 0.15 | 0.15 | 0.01 | 0.15 | 0.15 | 0.01 | 0.15 | 0.15 |
| Other Flatfish | 2017 | * | 0.20 | 0.20 | * | 0.20 | 0.20 | * | 0.20 | 0.20 |
| | 2018 | 0.01 | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 |
| | 2019 | 0.01 | 0.22 | 0.21 | 0.01 | 0.22 | 0.22 | 0.01 | 0.22 | 0.22 |
| | 2020 | 0.01 | 0.18 | 0.18 | 0.01 | 0.18 | 0.18 | 0.01 | 0.18 | 0.18 |
| | 2021 | * | 0.15 | 0.15 | * | 0.15 | 0.15 | * | 0.15 | 0.15 |
| Pacific Ocean Perch | 2017 | * | 0.21 | 0.21 | 1.00 | 0.21 | 0.21 | 1.00 | 0.21 | 0.21 |
| | 2018 | * | 0.21 | 0.21 | 0.77 | 0.21 | 0.21 | 0.77 | 0.21 | 0.21 |
| | 2019 | 0.74 | 0.16 | 0.16 | 0.74 | 0.16 | 0.16 | 0.74 | 0.16 | 0.16 |
| | 2020 | * | 0.15 | 0.15 | * | 0.15 | 0.15 | * | 0.15 | 0.15 |
| | 2021 | * | 0.15 | 0.15 | * | 0.15 | 0.15 | * | 0.15 | 0.15 |

Table 4.13: Bering Sea & Aleutian Islands ex-vessel prices in the groundfish fisheries by gear, and species, 2020-2021; calculations based on COAR (\$/lb, round weight). (continued)

| | Year | Shoreside | | | At Sea | | | All Sectors | | |
|----------------------|------|-----------|-------|----------|--------|-------|----------|-------------|-------|----------|
| | | Fixed | Trawl | All Gear | Fixed | Trawl | All Gear | Fixed | Trawl | All Gear |
| Northern Rockfish | 2017 | * | 0.21 | 0.21 | 1.00 | 0.21 | 0.21 | 1.00 | 0.21 | 0.21 |
| | 2018 | * | 0.21 | 0.21 | 0.77 | 0.21 | 0.21 | 0.77 | 0.21 | 0.21 |
| | 2019 | * | 0.16 | 0.16 | * | 0.16 | 0.16 | * | 0.16 | 0.16 |
| | 2020 | - | 0.15 | 0.15 | 0.36 | 0.15 | 0.15 | 0.36 | 0.15 | 0.15 |
| | 2021 | * | 0.15 | 0.15 | * | 0.15 | 0.15 | * | 0.15 | 0.15 |
| Other Rockfish | 2017 | 1.00 | 0.21 | 0.83 | 1.00 | 0.21 | 0.27 | 1.00 | 0.21 | 0.29 |
| | 2018 | 0.77 | 0.21 | 0.61 | 0.77 | 0.21 | 0.23 | 0.77 | 0.21 | 0.24 |
| | 2019 | 0.74 | 0.16 | 0.41 | 0.74 | 0.16 | 0.17 | 0.74 | 0.16 | 0.18 |
| | 2020 | 0.36 | 0.15 | 0.23 | 0.36 | 0.15 | 0.15 | 0.36 | 0.15 | 0.15 |
| | 2021 | 0.38 | 0.15 | 0.32 | 0.38 | 0.15 | 0.15 | 0.38 | 0.15 | 0.16 |
| Other Groundfish | 2017 | 0.31 | 0.21 | 0.22 | 0.31 | 0.01 | 0.25 | 0.31 | 0.07 | 0.24 |
| | 2018 | 0.32 | 0.18 | 0.20 | 0.32 | 0.02 | 0.25 | 0.32 | 0.07 | 0.25 |
| | 2019 | 0.45 | 0.09 | 0.25 | 0.45 | 0.03 | 0.31 | 0.45 | 0.03 | 0.31 |
| | 2020 | 0.41 | 0.03 | 0.16 | 0.41 | 0.02 | 0.31 | 0.41 | 0.02 | 0.31 |
| | 2021 | 0.19 | 0.12 | 0.12 | 0.19 | 0.02 | 0.14 | 0.19 | 0.02 | 0.14 |

Note Prices are for catch from both federal and state of Alaska fisheries. The ex-vessel price is calculated as value of landings divided by estimated or actual round weight. Prices for catch processed by an at-sea processor without a COAR buying record (e.g., from catcher processors) are set using the prices for the matching species (group), region and gear-types for which buying records exist shoreside. 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 in the COAR buying records. A price was calculated for these categories from product-report prices; the price in this case is the value of the first wholesale products divided by the calculated round weight and multiplied by a constant 0.4, a coarse estimate of the value added by processing based. The "All Alaska/All gear" column is the average weighted by retained catch. Values are not adjusted for inflation. "*" indicates a confidential value; "-" indicates no applicable data or value.

Source NMFS Alaska Region Blend and Catch-accounting System estimates; NMFS Alaska Region At-sea Production Reports; and ADF&G Commercial Operators Annual Reports (COAR). Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.14: Bering Sea & Aleutian Islands ex-vessel value of the groundfish catch by vessel category, gear, and species, 2020-2021; calculations based on COAR (\$ millions).

| | Year | Catcher Vessels | | | | Catcher Processor | | | | All Sectors | | | |
|------------------|------|---------------------|-------|--------|-------------|---------------------|------|--------|-------------|---------------------|-------|--------|----------|
| | | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear |
| Pollock | 2017 | - | - | 205.54 | 205.54 | - | - | 147.13 | 147.35 | - | - | 352.68 | 352.89 |
| | 2018 | - | - | 236.67 | 236.67 | - | - | 169.89 | 171.57 | - | - | 406.56 | 408.24 |
| | 2019 | - | - | 259.81 | 259.81 | - | - | 186.50 | 188.45 | - | - | 446.31 | 448.27 |
| | 2020 | - | - | 233.70 | 233.70 | - | - | 156.30 | 156.44 | - | - | 390.00 | 390.14 |
| | 2021 | - | - | 242.79 | 242.79 | - | - | 175.11 | 175.53 | - | - | 417.90 | 418.32 |
| Pacific Cod | 2017 | 0.08 | 31.63 | 22.28 | 53.98 | 93.25 | 4.38 | 26.36 | 123.99 | 93.33 | 36.01 | 48.64 | 177.98 |
| | 2018 | 0.84 | 38.16 | 26.00 | 65.00 | 97.20 | 4.12 | 29.90 | 131.22 | 98.04 | 42.28 | 55.90 | 196.22 |
| | 2019 | 1.16 | 42.04 | 19.06 | 62.26 | 93.51 | 4.43 | 27.39 | 125.34 | 94.67 | 46.47 | 46.45 | 187.59 |
| | 2020 | 0.89 | 33.04 | 19.51 | 53.43 | 70.20 | 3.26 | 18.99 | 92.45 | 71.08 | 36.30 | 38.50 | 145.88 |
| | 2021 | 0.17 | 26.17 | 12.98 | 39.32 | 43.68 | 1.71 | 14.92 | 60.31 | 43.85 | 27.88 | 27.90 | 99.63 |
| Sablefish | 2017 | 1.41 | * | 0.14 | 1.55 | 0.73 | * | 1.61 | 2.34 | 2.14 | * | 1.75 | 3.89 |
| | 2018 | 1.01 | 1.59 | 0.49 | 3.08 | 0.28 | * | 1.11 | 1.38 | 1.28 | 1.59 | 1.59 | 4.46 |
| | 2019 | 0.87 | 2.19 | 1.36 | 4.41 | 0.29 | * | 0.83 | 1.12 | 1.16 | 2.19 | 2.18 | 5.53 |
| | 2020 | 0.41 | 1.89 | 2.19 | 4.49 | 0.21 | * | 1.13 | 1.35 | 0.62 | 1.89 | 3.33 | 5.84 |
| | 2021 | 0.80 | 5.95 | 0.71 | 7.47 | 0.28 | * | 1.63 | 1.91 | 1.09 | 5.95 | 2.34 | 9.38 |
| Atka Mackerel | 2017 | - | - | 0.01 | 0.01 | - | - | 50.24 | 50.24 | - | - | 50.25 | 50.25 |
| | 2018 | - | - | 0.39 | 0.39 | - | - | 53.02 | 53.03 | - | - | 53.42 | 53.42 |
| | 2019 | - | - | 0.14 | 0.14 | - | - | 35.36 | 35.36 | - | - | 35.50 | 35.50 |
| | 2020 | - | - | 0.24 | 0.24 | - | - | 32.65 | 32.65 | - | - | 32.89 | 32.89 |
| | 2021 | - | - | 0.23 | 0.23 | - | - | 29.29 | 29.29 | - | - | 29.52 | 29.52 |
| Yellowfin | 2017 | - | - | 0.01 | 0.01 | 0.0 | - | 56.79 | 56.79 | 0.0 | - | 56.80 | 56.80 |
| | 2018 | - | - | 0.14 | 0.14 | 0.01 | - | 62.05 | 62.06 | 0.01 | - | 62.19 | 62.19 |
| | 2019 | - | - | 0.01 | 0.01 | 0.0 | - | 60.39 | 60.39 | 0.0 | - | 60.40 | 60.40 |
| | 2020 | - | - | 0.01 | 0.01 | * | - | 51.18 | 51.18 | * | - | 51.19 | 51.19 |
| | 2021 | - | - | 0.0 | 0.0 | * | - | 36.06 | 36.06 | * | - | 36.06 | 36.06 |
| Rock Sole | 2017 | - | - | 0.15 | 0.15 | 0.0 | - | 14.84 | 14.84 | 0.0 | - | 14.99 | 14.99 |
| | 2018 | * | - | 0.18 | 0.18 | 0.0 | - | 13.11 | 13.11 | 0.0 | - | 13.28 | 13.28 |
| | 2019 | * | - | 0.09 | 0.09 | 0.0 | - | 11.59 | 11.59 | 0.0 | - | 11.68 | 11.68 |
| | 2020 | - | - | 0.07 | 0.07 | * | - | 9.53 | 9.53 | * | - | 9.60 | 9.60 |
| | 2021 | - | - | 0.02 | 0.02 | * | - | 4.52 | 4.52 | * | - | 4.54 | 4.54 |

Table 4.14: Bering Sea & Aleutian Islands ex-vessel value of the groundfish catch by vessel category, gear, and species, 2020-2021; calculations based on COAR (\$ millions). *(continued)*

| | Year | Catcher Vessels | | | | Catcher Processor | | | | All Sectors | | | |
|---------------------------|------|---------------------|-----|-------|-------------|---------------------|-----|-------|-------------|---------------------|-----|-------|----------|
| | | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear |
| Flathead Sole | 2017 | - | - | 0.14 | 0.14 | 0.0 | - | 3.44 | 3.44 | 0.0 | - | 3.58 | 3.58 |
| | 2018 | - | - | 0.18 | 0.18 | * | - | 4.80 | 4.80 | * | - | 4.98 | 4.98 |
| | 2019 | * | - | 0.15 | 0.15 | 0.0 | - | 6.99 | 6.99 | 0.0 | - | 7.14 | 7.14 |
| | 2020 | - | - | 0.25 | 0.26 | 0.0 | - | 2.98 | 2.98 | 0.0 | - | 3.23 | 3.23 |
| | 2021 | - | - | 0.13 | 0.13 | 0.0 | - | 3.07 | 3.07 | 0.0 | - | 3.20 | 3.20 |
| Arrowtooth | 2017 | * | - | 0.02 | 0.02 | 0.01 | - | 2.36 | 2.38 | 0.01 | - | 2.39 | 2.40 |
| | 2018 | 0.0 | - | 0.05 | 0.05 | 0.01 | - | 2.79 | 2.79 | 0.01 | - | 2.84 | 2.84 |
| | 2019 | - | - | 0.06 | 0.06 | 0.01 | - | 4.20 | 4.21 | 0.01 | - | 4.26 | 4.27 |
| | 2020 | * | - | 0.07 | 0.07 | 0.01 | - | 3.73 | 3.74 | 0.01 | - | 3.80 | 3.81 |
| | 2021 | * | - | 0.03 | 0.03 | 0.0 | - | 2.68 | 2.68 | 0.0 | - | 2.71 | 2.71 |
| Kamchatka Flounder | 2017 | - | - | * | * | 0.0 | - | 1.86 | 1.86 | 0.0 | - | 1.86 | 1.86 |
| | 2018 | - | - | 0.0 | 0.0 | 0.0 | - | 1.40 | 1.40 | 0.0 | - | 1.40 | 1.40 |
| | 2019 | - | - | 0.0 | 0.0 | 0.0 | - | 2.01 | 2.01 | 0.0 | - | 2.01 | 2.01 |
| | 2020 | * | - | 0.0 | 0.0 | 0.0 | - | 2.80 | 2.80 | 0.0 | - | 2.80 | 2.80 |
| | 2021 | - | - | * | * | 0.0 | - | 2.18 | 2.18 | 0.0 | - | 2.18 | 2.18 |
| Turbot | 2017 | - | - | 0.0 | 0.0 | 0.03 | - | 0.80 | 0.83 | 0.03 | - | 0.80 | 0.83 |
| | 2018 | - | - | 0.0 | 0.0 | 0.01 | - | 0.74 | 0.74 | 0.01 | - | 0.74 | 0.75 |
| | 2019 | * | - | 0.0 | 0.0 | 0.02 | - | 1.09 | 1.11 | 0.02 | - | 1.09 | 1.11 |
| | 2020 | * | - | 0.0 | 0.0 | 0.01 | - | 0.76 | 0.77 | 0.01 | - | 0.76 | 0.77 |
| | 2021 | * | - | 0.0 | 0.0 | 0.0 | - | 0.52 | 0.52 | 0.0 | - | 0.52 | 0.52 |
| Other Flatfish | 2017 | - | - | 0.04 | 0.04 | * | - | 6.80 | 6.80 | * | - | 6.84 | 6.84 |
| | 2018 | - | - | 0.07 | 0.07 | 0.0 | - | 10.79 | 10.79 | 0.0 | - | 10.86 | 10.86 |
| | 2019 | - | - | 0.07 | 0.07 | 0.0 | - | 7.95 | 7.95 | 0.0 | - | 8.02 | 8.02 |
| | 2020 | * | - | 0.13 | 0.13 | 0.0 | - | 7.55 | 7.55 | 0.0 | - | 7.68 | 7.68 |
| | 2021 | - | - | 0.04 | 0.04 | * | - | 5.20 | 5.20 | * | - | 5.24 | 5.24 |
| Pacific Ocean Perch | 2017 | - | - | 0.31 | 0.31 | 0.0 | - | 13.94 | 13.94 | 0.0 | - | 14.24 | 14.24 |
| | 2018 | * | - | 0.53 | 0.53 | 0.0 | - | 14.60 | 14.60 | 0.0 | - | 15.13 | 15.13 |
| | 2019 | * | - | 0.67 | 0.67 | 0.0 | - | 13.33 | 13.33 | 0.0 | - | 14.00 | 14.00 |
| | 2020 | * | - | 0.59 | 0.59 | * | - | 11.45 | 11.45 | * | - | 12.05 | 12.05 |
| | 2021 | - | - | 0.19 | 0.19 | * | - | 10.86 | 10.86 | * | - | 11.05 | 11.05 |

Table 4.14: Bering Sea & Aleutian Islands ex-vessel value of the groundfish catch by vessel category, gear, and species, 2020-2021; calculations based on COAR (\$ millions). (continued)

| | Year | Catcher Vessels | | | | Catcher Processor | | | | All Sectors | | | |
|----------------------|------|---------------------|-----|--------|-------------|---------------------|-----|--------|-------------|---------------------|-----|--------|----------|
| | | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear |
| Northern Rockfish | 2017 | - | - | 0.0 | 0.0 | 0.01 | - | 2.05 | 2.06 | 0.01 | - | 2.05 | 2.06 |
| | 2018 | * | - | 0.01 | 0.01 | 0.01 | - | 2.44 | 2.44 | 0.01 | - | 2.44 | 2.45 |
| | 2019 | - | - | 0.01 | 0.01 | * | - | 3.01 | 3.01 | * | - | 3.02 | 3.02 |
| | 2020 | - | - | 0.02 | 0.02 | 0.01 | - | 2.33 | 2.34 | 0.01 | - | 2.35 | 2.36 |
| | 2021 | * | - | 0.0 | 0.0 | * | - | 1.85 | 1.85 | * | - | 1.85 | 1.85 |
| Other Rockfish | 2017 | 0.05 | - | 0.0 | 0.05 | 0.14 | - | 0.38 | 0.52 | 0.19 | - | 0.38 | 0.57 |
| | 2018 | 0.03 | - | 0.0 | 0.05 | 0.07 | - | 0.48 | 0.55 | 0.11 | - | 0.49 | 0.60 |
| | 2019 | 0.02 | - | 0.01 | 0.03 | 0.04 | - | 0.47 | 0.52 | 0.07 | - | 0.49 | 0.55 |
| | 2020 | 0.01 | - | 0.01 | 0.03 | 0.02 | - | 0.37 | 0.38 | 0.03 | - | 0.38 | 0.41 |
| | 2021 | 0.01 | - | 0.0 | 0.01 | 0.02 | - | 0.41 | 0.43 | 0.03 | - | 0.41 | 0.44 |
| Other Groundfish | 2017 | * | - | 0.34 | 0.40 | 5.19 | - | 0.07 | 5.25 | 5.19 | - | 0.41 | 5.65 |
| | 2018 | 0.0 | - | 0.51 | 0.64 | 6.78 | - | 0.15 | 6.93 | 6.78 | - | 0.67 | 7.56 |
| | 2019 | 0.02 | - | 0.03 | 0.17 | 6.38 | - | 0.19 | 6.57 | 6.40 | - | 0.22 | 6.74 |
| | 2020 | 0.0 | - | 0.02 | 0.15 | 5.90 | - | 0.10 | 5.99 | 5.90 | - | 0.11 | 6.14 |
| | 2021 | 0.0 | - | 0.05 | 0.06 | 2.64 | - | 0.09 | 2.73 | 2.64 | - | 0.14 | 2.78 |
| All Species | 2017 | 1.54 | - | 228.99 | 262.21 | 99.58 | - | 328.67 | 432.63 | 101.12 | - | 557.66 | 694.84 |
| | 2018 | 1.88 | - | 265.23 | 306.99 | 106.04 | - | 367.25 | 477.41 | 107.92 | - | 632.48 | 784.40 |
| | 2019 | 2.06 | - | 281.48 | 327.89 | 102.22 | - | 361.29 | 467.94 | 104.28 | - | 642.77 | 795.83 |
| | 2020 | 1.31 | - | 256.82 | 293.19 | 76.49 | - | 301.84 | 381.60 | 77.81 | - | 558.66 | 674.79 |
| | 2021 | 0.98 | - | 257.18 | 290.29 | 47.04 | - | 288.37 | 337.13 | 48.02 | - | 545.56 | 627.42 |

Note Ex-vessel value is calculated by multiplying ex-vessel prices by the retained round weight catch. Refer to Table 12 for a description of the price derivation. The value added by at-sea processing is not included in these estimates of ex-vessel value. All groundfish includes additional species categories. Values are not adjusted for inflation. "*" indicates a confidential value; "-" indicates no applicable data or value.

Source NMFS Alaska Region Blend and Catch-accounting System estimates; NMFS Alaska Region At-sea Production Reports; and ADF&G Commercial Operators Annual Reports (COAR). Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.15: Bering Sea & Aleutian Islands vessel and permit counts, ex-vessel value, value per vessel, and percent value of BSAI FMP groundfish and all BSAI fisheries by fleet, 2020-2021; calculations based on COAR (\$ millions).

| | Year | Vessels | Permits | Ex-vessel Value \$million | Ex-vessel Value per Vessel \$1,000 | Percent Value, BSAI FMP Groundfish | Percent Value, All BSAI Fisheries |
|---------------------------|------|---------|---------|---------------------------------|--|---|--|
| AFA CV | 2017 | 16 | 16 | 158.55 | 9,909.07 | 22.67 | 13.36 |
| | 2018 | 86 | 17 | 261.64 | 3,042.31 | 33.32 | 19.41 |
| | 2019 | 23 | 23 | 102.10 | 4,439.33 | 12.83 | 7.40 |
| | 2020 | 20 | 20 | 76.38 | 3,819.16 | 11.30 | 6.90 |
| | 2021 | 15 | 15 | 177.72 | 11,847.73 | 28.25 | 13.56 |
| AFA CP | 2017 | 16 | 15 | 21.65 | 1,353.37 | 3.10 | 1.83 |
| | 2018 | 25 | 25 | 105.99 | 4,239.55 | 13.50 | 7.86 |
| | 2019 | 3 | 3 | * | * | * | * |
| | 2020 | 19 | 19 | 123.64 | 6,507.32 | 18.30 | 11.18 |
| | 2021 | 82 | 17 | 256.91 | 3,133.01 | 40.84 | 19.61 |
| A80 | 2017 | 18 | 12 | 6.50 | 361.01 | 0.93 | 0.55 |
| | 2018 | 21 | 18 | 39.75 | 1,892.80 | 5.06 | 2.95 |
| | 2019 | 20 | 20 | 148.13 | 7,406.25 | 18.62 | 10.74 |
| | 2020 | 3 | 2 | * | * | * | * |
| | 2021 | 22 | 7 | 8.44 | 383.48 | 1.34 | 0.64 |
| BSAI Trawl | 2017 | 86 | 16 | 227.99 | 2,650.99 | 32.60 | 19.22 |
| | 2018 | 19 | 19 | 166.09 | 8,741.77 | 21.15 | 12.32 |
| | 2019 | 82 | 22 | 282.40 | 3,443.93 | 35.49 | 20.47 |
| | 2020 | 86 | 20 | 255.93 | 2,975.91 | 37.88 | 23.13 |
| | 2021 | 14 | 13 | 9.59 | 684.85 | 1.52 | 0.73 |
| CV Hook and Line | 2017 | 1 | 1 | * | * | * | * |
| | 2018 | 78 | 17 | 42.40 | 543.57 | 5.40 | 3.14 |
| | 2019 | 14 | 8 | 3.05 | 218.02 | 0.38 | 0.22 |
| | 2020 | 15 | 16 | 28.21 | 1,880.93 | 4.18 | 2.55 |
| | 2021 | 1 | 1 | * | * | * | * |
| CP Hook and Line | 2017 | 65 | 18 | 36.07 | 554.91 | 5.16 | 3.04 |
| | 2018 | 15 | 15 | 165.00 | 10,999.72 | 21.01 | 12.24 |
| | 2019 | 8 | 6 | * | * | * | * |
| | 2020 | 12 | 5 | * | * | * | * |
| | 2021 | 65 | 17 | 27.89 | 429.05 | 4.43 | 2.13 |
| Sablefish IFQ | 2017 | 19 | 19 | 149.47 | 7,867.09 | 21.37 | 12.60 |
| | 2018 | 1 | 1 | * | * | * | * |
| | 2019 | 18 | 18 | 21.23 | 1,179.60 | 2.67 | 1.54 |
| | 2020 | 16 | 5 | 3.33 | 207.88 | 0.49 | 0.30 |
| | 2021 | 19 | 19 | 101.35 | 5,334.12 | 16.11 | 7.73 |
| Pot | 2017 | 5 | 4 | * | * | * | * |
| | 2018 | 21 | 9 | 3.49 | 166.11 | 0.44 | 0.26 |
| | 2019 | 83 | 17 | 46.59 | 561.37 | 5.86 | 3.38 |
| | 2020 | 94 | 17 | 36.44 | 387.67 | 5.39 | 3.29 |
| | 2021 | 2 | 4 | * | * | * | * |

Table 4.15: Bering Sea & Aleutian Islands vessel and permit counts, ex-vessel value, value per vessel, and percent value of BSAI FMP groundfish and all BSAI fisheries by fleet, 2020-2021; calculations based on COAR (\$ millions). *(continued)*

| | Year | Vessels | Permits | Ex-vessel Value \$million | Ex-vessel Value per Vessel \$1,000 | Percent Value, BSAI FMP Groundfish | Percent Value, All BSAI Fisheries |
|-----|------|---------|---------|---------------------------------|--|---|--|
| | 2017 | 28 | 28 | 99.03 | 3,536.78 | 14.16 | 8.35 |
| | 2018 | 7 | 6 | * | * | * | * |
| Jig | 2019 | 16 | 16 | 191.01 | 11,938.08 | 24.01 | 13.85 |
| | 2020 | 13 | 13 | 150.88 | 11,606.32 | 22.33 | 13.64 |
| | 2021 | 17 | 17 | 46.95 | 2,761.82 | 7.46 | 3.58 |

Note 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. The data are for catch from both federal and state of Alaska fisheries. The category ‘BSAI Trawl’ does not include trawl vessel in the other categories (e.g. ‘AFA CV’, ‘AFA CP’, ‘A80’), for example TLAS. The column ‘permits’ is a count of federal groundfish processor permits. Values are not adjusted for inflation. **Source** ADF&G Commercial Operators Annual Reports (COAR); and ADF&G Intent to Operate (ITO) file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.16: Bering Sea & Aleutian Islands production of groundfish products by species, 2020-2021, (1,000 metric tons product weight).

| | Product | 2020 | | | 2018 | | | 2019 | | | 2020 | | | 2021 | | |
|---------------|-------------------|--------|-----------|--------|--------|-----------|--------|--------|-----------|--------|--------|-----------|--------|--------|-----------|--------|
| | | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All |
| Pollock | Whole Fish | 0.04 | 0.25 | 0.30 | 0.01 | 0.27 | 0.28 | 0.15 | 0.22 | 0.37 | 0.01 | 0.36 | 0.37 | * | 0.17 | 0.17 |
| | Head And Gut | 24.21 | - | 24.21 | 21.47 | * | 21.47 | 17.68 | * | 17.68 | 16.22 | * | 16.22 | 11.81 | * | 11.81 |
| | Roe | 11.71 | 6.72 | 18.43 | 13.00 | 7.64 | 20.64 | 16.18 | 11.77 | 27.95 | 15.73 | 8.96 | 24.68 | 11.51 | 4.44 | 15.95 |
| | Deep-Skin Fillets | 45.10 | 13.03 | 58.13 | 40.96 | 15.75 | 56.72 | 39.34 | 18.81 | 58.15 | 34.16 | 15.98 | 50.14 | 34.64 | * | 34.64 |
| | Other Fillets | 42.13 | 56.69 | 98.82 | 53.94 | 56.97 | 110.91 | 66.04 | 62.60 | 128.63 | 48.87 | 50.37 | 99.24 | 40.49 | 42.99 | 83.48 |
| | Surimi | 102.60 | 94.13 | 196.73 | 104.36 | 92.16 | 196.53 | 104.67 | 87.57 | 192.24 | 91.22 | 80.54 | 171.77 | 98.58 | 89.17 | 187.75 |
| | Minced Fish | 17.05 | 9.44 | 26.49 | 13.06 | 7.35 | 20.41 | 12.25 | 7.35 | 19.59 | 15.73 | 11.38 | 27.11 | 14.07 | 13.18 | 27.25 |
| | Fishmeal | 27.94 | 34.69 | 62.63 | 28.22 | 38.36 | 66.58 | 30.51 | 39.33 | 69.84 | 29.37 | 40.03 | 69.40 | 29.49 | 37.72 | 67.20 |
| | Other Products | 13.32 | 24.88 | 38.20 | 13.97 | 24.93 | 38.90 | 16.34 | 27.13 | 43.47 | 10.41 | 23.40 | 33.81 | 13.06 | 22.80 | 35.86 |
| | All Products | 284.10 | 239.84 | 523.94 | 289.00 | 243.43 | 532.44 | 303.17 | 254.76 | 557.93 | 261.72 | 231.02 | 492.74 | 253.65 | 210.47 | 464.12 |
| Pacific Cod | Whole Fish | 0.22 | * | 0.22 | 0.16 | 0.15 | 0.32 | 0.01 | 0.28 | 0.29 | 0.01 | 0.11 | 0.11 | * | 0.06 | 0.06 |
| | Head And Gut | 80.09 | 12.28 | 92.38 | 66.10 | 12.94 | 79.04 | 58.78 | 11.47 | 70.25 | 47.30 | 7.74 | 55.04 | 37.47 | 8.49 | 45.96 |
| | Roe | 0.47 | 1.73 | 2.20 | 1.05 | 2.50 | 3.55 | 1.31 | 1.69 | 3.01 | 0.85 | 2.02 | 2.87 | 0.88 | 1.41 | 2.29 |
| | Fillets | 0.14 | 9.88 | 10.01 | 0.14 | 10.23 | 10.36 | 0.23 | 7.80 | 8.02 | 0.18 | 7.33 | 7.51 | 0.25 | 5.36 | 5.61 |
| | Other Products | 7.07 | 7.66 | 14.73 | 6.81 | 7.33 | 14.14 | 7.39 | 6.01 | 13.40 | 6.21 | 5.87 | 12.08 | 5.21 | 3.73 | 8.94 |
| | All Products | 87.99 | 31.55 | 119.54 | 74.26 | 33.15 | 107.41 | 67.72 | 27.25 | 94.97 | 54.55 | 23.07 | 77.62 | 43.81 | 19.06 | 62.86 |
| Sablefish | Head And Gut | 0.42 | 0.45 | 0.87 | 0.56 | 0.40 | 0.96 | 0.34 | 0.58 | 0.92 | 0.56 | 0.55 | 1.12 | 0.77 | 0.92 | 1.69 |
| | Other Products | 0.05 | 0.04 | 0.08 | 0.09 | 0.03 | 0.13 | 0.04 | 0.02 | 0.05 | 0.01 | 0.02 | 0.03 | 0.01 | 0.06 | 0.06 |
| | All Products | 0.46 | 0.49 | 0.95 | 0.65 | 0.43 | 1.09 | 0.38 | 0.59 | 0.97 | 0.57 | 0.57 | 1.15 | 0.78 | 0.98 | 1.76 |
| Atka Mackerel | Whole Fish | 6.40 | * | 6.40 | 6.62 | 0.29 | 6.91 | 0.47 | * | 0.47 | 0.49 | 0.06 | 0.54 | * | 0.02 | 0.02 |
| | Head And Gut | 35.45 | - | 35.45 | 36.21 | * | 36.21 | 32.82 | * | 32.82 | 33.35 | * | 33.35 | 34.93 | - | 34.93 |
| | Other Products | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.00 | 0.01 | 0.02 | 0.00 | 0.04 | 0.04 | 0.00 | 0.21 | 0.21 |
| | All Products | 41.85 | 0.00 | 41.85 | 42.83 | 0.30 | 43.13 | 33.29 | 0.01 | 33.30 | 33.84 | 0.10 | 33.94 | 34.93 | 0.23 | 35.16 |
| Yellowfin | Whole Fish | 9.23 | - | 9.23 | 6.88 | 0.20 | 7.08 | 4.88 | - | 4.88 | 8.00 | - | 8.00 | 0.69 | - | 0.69 |
| | Head And Gut | 67.77 | - | 67.77 | 69.59 | - | 69.59 | 70.31 | - | 70.31 | 73.20 | - | 73.20 | 61.68 | - | 61.68 |
| | Fillets | * | - | * | - | - | - | - | - | - | - | - | - | - | - | - |
| | Other Products | 0.09 | 0.00 | 0.10 | 0.05 | 0.02 | 0.08 | 0.04 | 0.00 | 0.04 | 0.08 | 0.01 | 0.09 | 0.14 | 0.00 | 0.14 |
| | All Products | 77.10 | 0.00 | 77.10 | 76.53 | 0.23 | 76.75 | 75.22 | 0.00 | 75.23 | 81.27 | 0.01 | 81.28 | 62.51 | 0.00 | 62.51 |

Table 4.16: Bering Sea & Aleutian Islands production of groundfish products by species, 2020-2021, (1,000 metric tons product weight).
(continued)

| Product | 2020 | | | 2018 | | | 2019 | | | 2020 | | | 2021 | | | |
|--------------------|----------------|-----------|------|--------|-----------|------|--------|-----------|------|--------|-----------|------|--------|-----------|------|------|
| | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | |
| Rock Sole | Whole Fish | 1.56 | * | 1.56 | 0.43 | 0.06 | 0.49 | 0.49 | * | 0.49 | 0.92 | * | 0.92 | 0.30 | - | 0.30 |
| | Head And Gut | 17.33 | - | 17.33 | 14.21 | * | 14.21 | 12.57 | - | 12.57 | 12.17 | - | 12.17 | 6.17 | - | 6.17 |
| | Fillets | * | * | * | 0.00 | - | 0.00 | - | * | * | * | - | * | - | - | - |
| | Other Products | 0.13 | 0.07 | 0.20 | 0.07 | 0.03 | 0.10 | 0.15 | 0.05 | 0.20 | 0.07 | 0.06 | 0.13 | 0.20 | 0.03 | 0.23 |
| | All Products | 19.02 | 0.07 | 19.09 | 14.72 | 0.08 | 14.80 | 13.22 | 0.05 | 13.27 | 13.16 | 0.06 | 13.22 | 6.67 | 0.03 | 6.70 |
| Flathead Sole | Whole Fish | 0.10 | * | 0.10 | 0.37 | 0.06 | 0.43 | 0.05 | - | 0.05 | 0.31 | * | 0.31 | 0.24 | - | 0.24 |
| | Head And Gut | 4.03 | - | 4.03 | 5.09 | * | 5.09 | 7.88 | - | 7.88 | 3.54 | - | 3.54 | 4.22 | * | 4.22 |
| | Other Products | 0.05 | 0.05 | 0.11 | 0.05 | 0.04 | 0.10 | 0.12 | 0.10 | 0.21 | 0.13 | 0.23 | 0.36 | 0.10 | 0.10 | 0.20 |
| | All Products | 4.19 | 0.05 | 4.25 | 5.52 | 0.10 | 5.62 | 8.04 | 0.10 | 8.14 | 3.99 | 0.23 | 4.21 | 4.56 | 0.10 | 4.66 |
| | Fillets | - | - | - | * | * | * | - | - | - | * | - | * | - | - | - |
| Arrowtooth | Whole Fish | * | - | * | * | - | * | - | - | - | * | - | * | * | - | * |
| | Head And Gut | 3.46 | - | 3.46 | 2.92 | - | 2.92 | 4.86 | - | 4.86 | 5.43 | - | 5.43 | 4.26 | - | 4.26 |
| | Other Products | 0.01 | 0.02 | 0.03 | 0.01 | 0.04 | 0.05 | 0.02 | 0.05 | 0.07 | 0.02 | 0.10 | 0.12 | 0.01 | 0.03 | 0.04 |
| | All Products | 3.46 | 0.02 | 3.48 | 2.93 | 0.04 | 2.97 | 4.88 | 0.05 | 4.93 | 5.45 | 0.10 | 5.55 | 4.27 | 0.03 | 4.30 |
| | Fillets | - | - | - | - | - | - | * | - | * | - | - | - | - | - | - |
| Kamchatka Flounder | Head And Gut | 2.05 | - | 2.05 | 1.40 | - | 1.40 | 2.13 | - | 2.13 | 3.97 | - | 3.97 | 3.62 | - | 3.62 |
| | Fishmeal | 0.00 | - | 0.00 | 0.00 | - | 0.00 | 0.00 | * | 0.00 | 0.01 | - | 0.01 | 0.00 | - | 0.00 |
| | All Products | 2.05 | - | 2.05 | 1.40 | - | 1.40 | 2.13 | * | 2.13 | 3.97 | - | 3.97 | 3.62 | - | 3.62 |
| | Other Products | - | - | - | * | - | * | - | - | - | * | - | * | - | - | - |
| | Whole Fish | - | - | - | - | - | - | - | - | - | * | - | * | - | - | - |

Table 4.16: Bering Sea & Aleutian Islands production of groundfish products by species, 2020-2021, (1,000 metric tons product weight).
(continued)

| | Product | 2020 | | | 2018 | | | 2019 | | | 2020 | | | 2021 | | | |
|---------------------|----------------|--------|-----------|-------|--------|-----------|-------|--------|-----------|-------|--------|-----------|-------|--------|-----------|-------|---|
| | | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | |
| Turbot | Head And Gut | 1.75 | - | 1.75 | 1.19 | - | 1.19 | 1.92 | - | 1.92 | 1.45 | - | 1.45 | 1.05 | - | 1.05 | |
| | Other Products | 0.68 | 0.00 | 0.68 | 0.42 | 0.00 | 0.42 | 0.74 | 0.00 | 0.74 | 0.57 | 0.00 | 0.57 | 0.34 | * | 0.34 | |
| | All Products | 2.43 | 0.00 | 2.43 | 1.61 | 0.00 | 1.61 | 2.66 | 0.00 | 2.67 | 2.02 | 0.00 | 2.02 | 1.39 | * | 1.39 | |
| | Whole Fish | - | - | - | - | - | - | * | - | * | - | - | - | - | - | - | - |
| | Head And Gut | 1.33 | 0.04 | 1.37 | 0.36 | * | 0.36 | 0.61 | 0.06 | 0.67 | 0.58 | 0.10 | 0.68 | 0.56 | * | 0.56 | |
| Other Flatfish | Head And Gut | 7.11 | * | 7.11 | 11.55 | * | 11.55 | 8.75 | * | 8.75 | 10.29 | - | 10.29 | 7.89 | * | 7.89 | |
| | Fillets | - | * | * | - | * | * | - | - | - | - | * | * | - | - | - | |
| | Other Products | 0.01 | 0.01 | 0.02 | 0.04 | 0.01 | 0.05 | 0.38 | 0.02 | 0.40 | 0.02 | 0.08 | 0.10 | 0.01 | 0.05 | 0.06 | |
| | All Products | 8.45 | 0.04 | 8.49 | 11.94 | 0.01 | 11.96 | 9.74 | 0.07 | 9.82 | 10.89 | 0.17 | 11.06 | 8.46 | 0.05 | 8.51 | |
| Pacific Ocean Perch | Whole Fish | 0.41 | 0.41 | 0.82 | 2.08 | 0.13 | 2.21 | 0.67 | 0.39 | 1.06 | 0.49 | 0.28 | 0.77 | 0.03 | * | 0.03 | |
| | Head And Gut | 13.82 | * | 13.82 | 14.17 | * | 14.17 | 17.31 | * | 17.31 | 16.59 | - | 16.59 | 15.97 | - | 15.97 | |
| | Other Products | 0.27 | 0.03 | 0.30 | 0.19 | 0.06 | 0.25 | 0.66 | 0.20 | 0.86 | 0.28 | 0.40 | 0.67 | 0.16 | 0.21 | 0.37 | |
| | All Products | 14.50 | 0.44 | 14.94 | 16.44 | 0.19 | 16.63 | 18.63 | 0.59 | 19.22 | 17.36 | 0.67 | 18.03 | 16.17 | 0.21 | 16.37 | |
| Northern Rockfish | Whole Fish | - | * | * | * | * | * | - | * | * | - | * | * | - | - | - | |
| | Head And Gut | 2.03 | - | 2.03 | 2.26 | * | 2.26 | 3.89 | * | 3.89 | 3.05 | - | 3.05 | 2.38 | - | 2.38 | |
| | Other Products | 0.00 | * | 0.00 | 0.00 | * | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 | 0.03 | 0.03 | 0.00 | 0.00 | 0.01 | |
| | All Products | 2.03 | * | 2.03 | 2.27 | * | 2.27 | 3.90 | 0.00 | 3.90 | 3.05 | 0.03 | 3.08 | 2.38 | 0.00 | 2.39 | |
| Other Rockfish | Whole Fish | 0.17 | 0.00 | 0.18 | 0.15 | * | 0.15 | 0.42 | * | 0.42 | 0.21 | * | 0.21 | 0.29 | * | 0.29 | |
| | Head And Gut | 0.27 | 0.01 | 0.28 | 0.35 | 0.01 | 0.36 | 0.27 | 0.01 | 0.28 | 0.30 | 0.01 | 0.31 | 0.33 | * | 0.33 | |
| | Other Products | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.01 | 0.16 | 0.00 | 0.17 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | |
| | All Products | 0.45 | 0.02 | 0.46 | 0.50 | 0.01 | 0.51 | 0.86 | 0.01 | 0.87 | 0.52 | 0.01 | 0.53 | 0.62 | 0.00 | 0.62 | |

Table 4.16: Bering Sea & Aleutian Islands production of groundfish products by species, 2020-2021, (1,000 metric tons product weight).
(continued)

| | Product | 2020 | | | 2018 | | | 2019 | | | 2020 | | | 2021 | | |
|------------------|------------------|--------|-----------|--------|--------|-----------|--------|--------|-----------|--------|--------|-----------|--------|--------|-----------|--------|
| | | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All |
| Other Groundfish | Whole Fish | * | 0.26 | 0.26 | 0.02 | 0.50 | 0.52 | 0.00 | 0.34 | 0.35 | * | 0.04 | 0.04 | 0.00 | 0.50 | 0.50 |
| | Head And Gut | 0.01 | * | 0.01 | 0.04 | 0.07 | 0.12 | 0.02 | 0.06 | 0.08 | 0.01 | 0.09 | 0.09 | 0.02 | * | 0.02 |
| | Fishmeal | 0.06 | 0.17 | 0.23 | 0.04 | 0.07 | 0.12 | 0.17 | 0.60 | 0.77 | 0.10 | 1.59 | 1.69 | 0.33 | 0.48 | 0.81 |
| | Other Products | 2.40 | * | 2.40 | 3.42 | 0.02 | 3.44 | 2.65 | * | 2.65 | 2.17 | * | 2.17 | 2.17 | 0.00 | 2.17 |
| | All Products | 2.48 | 0.43 | 2.91 | 3.52 | 0.67 | 4.19 | 2.84 | 1.00 | 3.84 | 2.28 | 1.72 | 3.99 | 2.52 | 0.98 | 3.50 |
| | Other | * | - | * | - | - | - | - | - | - | - | - | - | - | - | - |
| | Roe | - | - | - | * | - | * | - | - | - | - | - | - | - | - | - |
| | Fillet | - | - | - | * | - | * | - | - | - | - | - | - | - | - | - |
| All Species | Whole Fish | 19.48 | 0.97 | 20.45 | 17.09 | 1.66 | 18.75 | 7.76 | 1.29 | 9.05 | 11.01 | 0.94 | 11.95 | 2.11 | 0.75 | 2.86 |
| | Head And Gut | 259.81 | 12.75 | 272.56 | 247.12 | 13.42 | 260.54 | 239.53 | 12.12 | 251.64 | 227.43 | 8.39 | 235.82 | 192.56 | 9.42 | 201.98 |
| | Roe | 12.17 | 8.46 | 20.63 | 14.06 | 10.14 | 24.19 | 17.50 | 13.46 | 30.96 | 16.58 | 10.97 | 27.55 | 12.38 | 5.86 | 18.24 |
| | Fillet | 0.14 | 9.88 | 10.01 | 0.14 | 10.23 | 10.36 | 0.23 | 7.80 | 8.02 | 0.18 | 7.33 | 7.51 | 0.25 | 5.36 | 5.61 |
| | Deep-Skin Fillet | 45.10 | 13.03 | 58.13 | 40.96 | 15.75 | 56.72 | 39.34 | 18.81 | 58.15 | 34.16 | 15.98 | 50.14 | 34.64 | * | 34.64 |
| | Other Fillet | 42.13 | 56.69 | 98.82 | 53.94 | 56.97 | 110.91 | 66.04 | 62.60 | 128.63 | 48.87 | 50.37 | 99.24 | 40.49 | 42.99 | 83.48 |
| | Surimi | 102.60 | 94.13 | 196.73 | 104.36 | 92.16 | 196.53 | 104.67 | 87.57 | 192.24 | 91.22 | 80.54 | 171.77 | 98.58 | 89.17 | 187.75 |
| | Minced Fish | 17.05 | 9.44 | 26.49 | 13.06 | 7.35 | 20.41 | 12.25 | 7.35 | 19.59 | 15.73 | 11.38 | 27.11 | 14.07 | 13.18 | 27.25 |
| | Fishmeal | 28.01 | 34.86 | 62.87 | 28.26 | 38.43 | 66.70 | 30.68 | 39.93 | 70.62 | 29.48 | 41.62 | 71.09 | 29.82 | 38.20 | 68.02 |
| | Other Products | 24.09 | 32.76 | 56.85 | 25.13 | 32.55 | 57.68 | 28.70 | 33.60 | 62.30 | 19.98 | 30.24 | 50.22 | 21.43 | 27.21 | 48.64 |
| | All Products | 550.57 | 272.96 | 823.54 | 544.13 | 278.66 | 822.79 | 546.69 | 284.51 | 831.20 | 494.64 | 257.76 | 752.40 | 446.33 | 232.14 | 678.47 |
| | Other | * | - | * | - | - | - | - | - | - | - | - | - | - | - | - |

Note 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 NMFS Alaska Region At-sea and Shoreside Production Reports; and ADF&G Commercial Operators Annual Reports (COAR). Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.17: Bering Sea & Aleutian Islands gross value of groundfish products by species, 2020-2021, (\$ million).

| | Product | 2020 | | | 2018 | | | 2019 | | | 2020 | | | 2021 | | |
|---------------|-------------------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|--------|-----------|---------|
| | | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All |
| Pollock | Whole Fish | 0.0 | 0.2 | 0.3 | 0.0 | 0.3 | 0.3 | 0.2 | 0.5 | 0.6 | 0.0 | 0.4 | 0.4 | * | 0.2 | 0.2 |
| | Head And Gut | 29.0 | - | 29.0 | 27.5 | * | 27.5 | 24.5 | * | 24.5 | 20.2 | * | 20.2 | 13.5 | * | 13.5 |
| | Roe | 85.9 | 31.0 | 116.9 | 90.5 | 40.9 | 131.4 | 89.9 | 42.3 | 132.2 | 81.3 | 29.1 | 110.4 | 75.5 | 14.2 | 89.7 |
| | Deep-Skin Fillets | 150.1 | 41.3 | 191.4 | 136.7 | 49.5 | 186.2 | 137.9 | 67.2 | 205.1 | 133.0 | 54.8 | 187.8 | 145.4 | * | 145.4 |
| | Other Fillets | 107.8 | 145.8 | 253.5 | 154.2 | 164.4 | 318.6 | 218.7 | 203.2 | 421.9 | 161.7 | 155.4 | 317.1 | 141.8 | 140.5 | 282.3 |
| | Surimi | 370.2 | 207.2 | 577.4 | 316.7 | 234.1 | 550.8 | 341.5 | 240.6 | 582.2 | 263.3 | 208.1 | 471.4 | 321.8 | 263.9 | 585.8 |
| | Minced Fish | 26.1 | 13.1 | 39.2 | 19.7 | 10.8 | 30.4 | 21.8 | 12.0 | 33.8 | 31.6 | 19.5 | 51.1 | 37.6 | 24.7 | 62.3 |
| | Fishmeal | 45.7 | 50.7 | 96.4 | 48.1 | 51.8 | 99.9 | 67.3 | 42.9 | 110.2 | 103.6 | 47.9 | 151.5 | 92.5 | 59.9 | 152.4 |
| | Other Products | 16.1 | 17.9 | 34.0 | 17.2 | 20.7 | 37.9 | 18.5 | 21.4 | 39.9 | 13.7 | 20.7 | 34.4 | 18.1 | 20.6 | 38.7 |
| | All Products | 830.8 | 507.3 | 1,338.1 | 810.5 | 572.6 | 1,383.1 | 920.3 | 630.2 | 1,550.5 | 808.3 | 535.8 | 1,344.1 | 846.1 | 524.0 | 1,370.1 |
| Pacific Cod | Whole Fish | 0.4 | * | 0.4 | 0.3 | 0.3 | 0.5 | 0.0 | 0.3 | 0.3 | 0.0 | 0.1 | 0.2 | * | 0.1 | 0.1 |
| | Head And Gut | 287.9 | 32.5 | 320.4 | 276.0 | 48.5 | 324.5 | 216.8 | 31.1 | 247.9 | 156.9 | 18.4 | 175.3 | 143.3 | 18.9 | 162.2 |
| | Roe | 0.6 | 2.7 | 3.4 | 2.5 | 7.2 | 9.7 | 2.3 | 3.4 | 5.7 | 1.5 | 4.6 | 6.1 | 1.7 | 3.6 | 5.3 |
| | Fillets | 0.5 | 81.2 | 81.7 | 0.9 | 93.3 | 94.2 | 1.6 | 67.6 | 69.2 | 1.3 | 60.5 | 61.8 | 2.3 | 50.8 | 53.1 |
| | Other Products | 13.6 | 15.2 | 28.7 | 11.8 | 18.0 | 29.8 | 11.3 | 12.1 | 23.4 | 9.9 | 12.5 | 22.4 | 7.7 | 8.3 | 16.0 |
| | All Products | 303.1 | 131.6 | 434.7 | 291.6 | 167.3 | 458.8 | 232.0 | 114.5 | 346.5 | 169.6 | 96.2 | 265.8 | 155.0 | 81.7 | 236.7 |
| Sablefish | Head And Gut | 4.7 | 7.2 | 11.9 | 4.2 | 5.0 | 9.3 | 2.3 | 4.7 | 7.0 | 3.3 | 4.1 | 7.4 | 5.3 | 8.3 | 13.7 |
| | Other Products | 0.1 | 0.5 | 0.6 | 0.1 | 0.6 | 0.8 | 0.1 | 0.1 | 0.1 | 0.0 | 0.2 | 0.2 | 0.0 | 0.5 | 0.5 |
| | All Products | 4.8 | 7.7 | 12.5 | 4.4 | 5.7 | 10.0 | 2.4 | 4.8 | 7.1 | 3.3 | 4.3 | 7.6 | 5.4 | 8.9 | 14.2 |
| Atka Mackerel | Whole Fish | 11.9 | * | 11.9 | 15.0 | 0.5 | 15.5 | 1.0 | * | 1.0 | 0.8 | 0.1 | 0.8 | * | 0.0 | 0.0 |
| | Head And Gut | 114.8 | - | 114.8 | 112.7 | * | 112.7 | 84.0 | * | 84.0 | 77.6 | * | 77.6 | 70.0 | - | 70.0 |
| | Other Products | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.3 | 0.3 |
| | All Products | 126.6 | 0.0 | 126.6 | 127.7 | 0.5 | 128.1 | 85.0 | 0.0 | 85.0 | 78.4 | 0.1 | 78.5 | 70.0 | 0.3 | 70.2 |
| Yellowfin | Whole Fish | 12.4 | - | 12.4 | 10.8 | 0.3 | 11.1 | 6.9 | - | 6.9 | 7.2 | - | 7.2 | 0.7 | - | 0.7 |
| | Head And Gut | 98.2 | - | 98.2 | 125.4 | - | 125.4 | 121.9 | - | 121.9 | 100.4 | - | 100.4 | 74.5 | - | 74.5 |
| | Fillets | * | - | * | - | - | - | - | - | - | - | - | - | - | - | - |
| | Other Products | 0.2 | 0.0 | 0.2 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.3 | 0.0 | 0.3 |
| | All Products | 110.8 | 0.0 | 110.8 | 136.3 | 0.3 | 136.6 | 128.8 | 0.0 | 128.8 | 107.8 | 0.0 | 107.8 | 75.5 | 0.0 | 75.5 |

Table 4.17: Bering Sea & Aleutian Islands gross value of groundfish products by species, 2020-2021, (\$ million). (continued)

| | Product | 2020 | | | 2018 | | | 2019 | | | 2020 | | | 2021 | | |
|--------------------|----------------|--------|-----------|------|--------|-----------|------|--------|-----------|------|--------|-----------|------|--------|-----------|-----|
| | | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All |
| Rock Sole | Whole Fish | 2.0 | * | 2.0 | 0.7 | 0.1 | 0.8 | 1.0 | * | 1.0 | 1.0 | * | 1.0 | 0.4 | - | 0.4 |
| | Head And Gut | 28.0 | - | 28.0 | 28.2 | * | 28.2 | 23.2 | - | 23.2 | 19.8 | - | 19.8 | 7.3 | - | 7.3 |
| | Fillets | * | * | * | 0.0 | - | 0.0 | - | * | * | * | - | * | - | - | - |
| | Other Products | 0.2 | 0.1 | 0.3 | 0.1 | 0.0 | 0.2 | 0.2 | 0.1 | 0.3 | 0.1 | 0.1 | 0.2 | 0.4 | 0.0 | 0.4 |
| | All Products | 30.2 | 0.1 | 30.3 | 29.0 | 0.1 | 29.1 | 24.3 | 0.1 | 24.4 | 20.9 | 0.1 | 21.0 | 8.1 | 0.0 | 8.1 |
| Flathead Sole | Whole Fish | 0.1 | * | 0.1 | 0.7 | 0.1 | 0.7 | 0.1 | - | 0.1 | 0.4 | * | 0.4 | 0.2 | - | 0.2 |
| | Head And Gut | 7.7 | - | 7.7 | 11.0 | * | 11.0 | 14.9 | - | 14.9 | 5.0 | - | 5.0 | 5.4 | * | 5.4 |
| | Fillets | - | - | - | * | * | * | - | - | - | * | - | * | - | - | - |
| | Other Products | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.2 | 0.3 | 0.5 | 0.2 | 0.1 | 0.3 |
| | All Products | 7.9 | 0.1 | 8.0 | 11.8 | 0.1 | 11.9 | 15.2 | 0.1 | 15.3 | 5.6 | 0.3 | 5.9 | 5.9 | 0.1 | 6.0 |
| Arrowtooth | Whole Fish | * | - | * | * | - | * | - | - | - | * | - | * | * | - | * |
| | Head And Gut | 9.9 | - | 9.9 | 5.6 | - | 5.6 | 9.4 | - | 9.4 | 8.6 | - | 8.6 | 6.8 | - | 6.8 |
| | Fillets | - | - | - | - | - | - | * | - | * | - | - | - | - | - | - |
| | Other Products | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 |
| | All Products | 9.9 | 0.0 | 9.9 | 5.6 | 0.1 | 5.7 | 9.4 | 0.1 | 9.5 | 8.6 | 0.1 | 8.8 | 6.9 | 0.0 | 6.9 |
| Kamchatka Flounder | Whole Fish | - | - | - | - | - | - | - | - | - | * | - | * | - | - | - |
| | Head And Gut | 6.7 | - | 6.7 | 3.9 | - | 3.9 | 4.7 | - | 4.7 | 7.7 | - | 7.7 | 7.4 | - | 7.4 |
| | Fishmeal | 0.0 | - | 0.0 | 0.0 | - | 0.0 | 0.0 | * | 0.0 | 0.0 | - | 0.0 | 0.0 | - | 0.0 |
| | Other Products | - | - | - | * | - | * | - | - | - | * | - | * | - | - | - |
| | All Products | 6.7 | - | 6.7 | 3.9 | - | 3.9 | 4.7 | * | 4.7 | 7.7 | - | 7.7 | 7.4 | - | 7.4 |
| Turbot | Whole Fish | - | - | - | - | - | - | * | - | * | - | - | - | - | - | - |
| | Head And Gut | 9.3 | - | 9.3 | 6.4 | - | 6.4 | 10.7 | - | 10.7 | 6.9 | - | 6.9 | 5.0 | - | 5.0 |
| | Other Products | 2.2 | 0.0 | 2.2 | 1.0 | 0.0 | 1.0 | 1.7 | 0.0 | 1.7 | 1.5 | 0.0 | 1.5 | 0.9 | * | 0.9 |
| | All Products | 11.5 | 0.0 | 11.5 | 7.4 | 0.0 | 7.4 | 12.3 | 0.0 | 12.3 | 8.4 | 0.0 | 8.4 | 5.9 | * | 5.9 |

Table 4.17: Bering Sea & Aleutian Islands gross value of groundfish products by species, 2020-2021, (\$ million). (continued)

| | Product | 2020 | | | 2018 | | | 2019 | | | 2020 | | | 2021 | | |
|---------------------|----------------|--------|-----------|------|--------|-----------|------|--------|-----------|------|--------|-----------|------|--------|-----------|------|
| | | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All |
| Other Flatfish | Whole Fish | 2.3 | 0.1 | 2.4 | 0.5 | * | 0.5 | 1.7 | 0.2 | 1.9 | 1.3 | 0.1 | 1.4 | 0.9 | * | 0.9 |
| | Head And Gut | 12.7 | * | 12.7 | 16.4 | * | 16.4 | 12.5 | * | 12.5 | 13.6 | - | 13.6 | 7.7 | * | 7.7 |
| | Fillets | - | * | * | - | * | * | - | - | - | - | * | * | - | - | - |
| | Other Products | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.5 | 0.0 | 0.5 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 |
| | All Products | 15.0 | 0.1 | 15.2 | 17.0 | 0.0 | 17.0 | 14.6 | 0.2 | 14.8 | 14.9 | 0.2 | 15.1 | 8.6 | 0.1 | 8.7 |
| Pacific Ocean Perch | Whole Fish | 0.5 | 0.5 | 1.0 | 2.8 | 0.2 | 3.0 | 1.1 | 0.4 | 1.4 | 0.8 | 0.3 | 1.0 | 0.0 | * | 0.0 |
| | Head And Gut | 34.6 | * | 34.6 | 34.5 | * | 34.5 | 31.2 | * | 31.2 | 27.5 | - | 27.5 | 27.1 | - | 27.1 |
| | Other Products | 0.4 | 0.0 | 0.4 | 0.3 | 0.1 | 0.4 | 0.8 | 0.6 | 1.4 | 0.5 | 0.5 | 1.0 | 0.3 | 0.3 | 0.6 |
| | All Products | 35.5 | 0.5 | 36.1 | 37.6 | 0.3 | 37.9 | 33.0 | 1.0 | 34.0 | 28.8 | 0.7 | 29.5 | 27.5 | 0.3 | 27.7 |
| Northern Rockfish | Whole Fish | - | * | * | * | * | * | - | * | * | - | * | * | - | - | - |
| | Head And Gut | 3.4 | - | 3.4 | 3.9 | * | 3.9 | 5.9 | * | 5.9 | 3.2 | - | 3.2 | 2.2 | - | 2.2 |
| | Other Products | 0.0 | * | 0.0 | 0.0 | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | All Products | 3.4 | * | 3.4 | 3.9 | * | 3.9 | 5.9 | 0.0 | 5.9 | 3.2 | 0.0 | 3.2 | 2.2 | 0.0 | 2.2 |
| Other Rockfish | Whole Fish | 0.9 | 0.0 | 0.9 | 0.6 | * | 0.6 | 1.6 | * | 1.6 | 0.7 | * | 0.7 | 1.1 | * | 1.1 |
| | Head And Gut | 0.7 | 0.1 | 0.7 | 0.9 | 0.0 | 0.9 | 0.8 | 0.0 | 0.8 | 0.6 | 0.0 | 0.7 | 0.7 | * | 0.7 |
| | Other Products | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | All Products | 1.6 | 0.1 | 1.6 | 1.4 | 0.0 | 1.5 | 2.6 | 0.1 | 2.6 | 1.4 | 0.0 | 1.4 | 1.8 | 0.0 | 1.8 |
| Other Groundfish | Whole Fish | * | 0.5 | 0.5 | 0.0 | 1.2 | 1.2 | 0.0 | 0.5 | 0.5 | * | 0.1 | 0.1 | 0.0 | 0.5 | 0.5 |
| | Head And Gut | 0.0 | * | 0.0 | 0.1 | 0.4 | 0.5 | 0.1 | 0.1 | 0.2 | 0.0 | 0.2 | 0.2 | 0.1 | * | 0.1 |
| | Roe | - | - | - | * | - | * | - | - | - | - | - | - | - | - | - |
| | Fillets | - | - | - | * | - | * | - | - | - | - | - | - | - | - | - |
| | Fishmeal | 0.1 | 0.3 | 0.4 | 0.1 | 0.1 | 0.2 | 0.2 | 0.8 | 1.0 | 0.2 | 1.8 | 2.0 | 0.6 | 0.6 | 1.2 |
| | Other Products | 4.5 | * | 4.5 | 7.6 | 0.1 | 7.7 | 5.2 | * | 5.2 | 4.0 | * | 4.0 | 3.5 | 0.0 | 3.5 |
| | All Products | 4.6 | 0.8 | 5.3 | 7.8 | 1.8 | 9.6 | 5.5 | 1.4 | 6.9 | 4.2 | 2.1 | 6.3 | 4.3 | 1.1 | 5.4 |

Table 4.17: Bering Sea & Aleutian Islands gross value of groundfish products by species, 2020-2021, (\$ million). (continued)

| Product | 2020 | | | 2018 | | | 2019 | | | 2020 | | | 2021 | | |
|-------------------|---------|-----------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|---------|
| | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All | At Sea | Shoreside | All |
| Whole Fish | 30.6 | 1.3 | 31.9 | 31.4 | 2.8 | 34.2 | 13.5 | 1.8 | 15.3 | 12.2 | 1.0 | 13.2 | 3.4 | 0.8 | 4.2 |
| Head And Gut | 647.6 | 39.8 | 687.4 | 656.8 | 54.0 | 710.8 | 562.7 | 36.0 | 598.6 | 451.2 | 22.8 | 474.1 | 376.3 | 27.2 | 403.5 |
| Roe | 86.6 | 33.7 | 120.3 | 93.0 | 48.1 | 141.2 | 92.2 | 45.7 | 137.9 | 82.8 | 33.7 | 116.5 | 77.2 | 17.9 | 95.0 |
| Fillet | 0.5 | 81.2 | 81.7 | 0.9 | 93.3 | 94.2 | 1.6 | 67.6 | 69.2 | 1.3 | 60.5 | 61.8 | 2.3 | 50.8 | 53.1 |
| Deep-Skin Fillets | 150.1 | 41.3 | 191.4 | 136.7 | 49.5 | 186.2 | 137.9 | 67.2 | 205.1 | 133.0 | 54.8 | 187.8 | 145.4 | * | 145.4 |
| Other Fillets | 107.8 | 145.8 | 253.5 | 154.2 | 164.4 | 318.6 | 218.7 | 203.2 | 421.9 | 161.7 | 155.4 | 317.1 | 141.8 | 140.5 | 282.3 |
| Surimi | 370.2 | 207.2 | 577.4 | 316.7 | 234.1 | 550.8 | 341.5 | 240.6 | 582.2 | 263.3 | 208.1 | 471.4 | 321.8 | 263.9 | 585.8 |
| Minced Fish | 26.1 | 13.1 | 39.2 | 19.7 | 10.8 | 30.4 | 21.8 | 12.0 | 33.8 | 31.6 | 19.5 | 51.1 | 37.6 | 24.7 | 62.3 |
| Fishmeal | 45.8 | 51.0 | 96.8 | 48.2 | 51.9 | 100.1 | 67.5 | 43.6 | 111.1 | 103.8 | 49.7 | 153.5 | 93.1 | 60.5 | 153.6 |
| Other Products | 37.1 | 33.9 | 71.1 | 38.4 | 39.8 | 78.2 | 38.7 | 34.4 | 73.1 | 30.2 | 34.4 | 64.6 | 31.4 | 30.2 | 61.6 |
| All Products | 1,502.3 | 648.4 | 2,150.7 | 1,495.9 | 748.7 | 2,244.7 | 1,496.1 | 752.3 | 2,248.4 | 1,271.0 | 639.9 | 1,911.0 | 1,230.3 | 616.4 | 1,846.8 |

Note 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. Values are not adjusted for inflation. "*" indicates a confidential value; "-" indicates no applicable data or value.

Source NMFS Alaska Region At-sea and Shoreside Production Reports; and ADF&G Commercial Operators Annual Reports (COAR). Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.18: Bering Sea & Aleutian Islands price per pound of groundfish products by species and processing mode, 2020-2021, (\$/lb).

| Product | 2020 | | 2018 | | 2019 | | 2020 | | 2021 | | | |
|----------------|-------------------|--------------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|------|------|
| | At-Sea | Shoreside | At-Sea | Shoreside | At-Sea | Shoreside | At-Sea | Shoreside | At-Sea | Shoreside | | |
| Pollock | Whole Fish | 0.29 | 0.42 | 0.42 | 0.55 | 0.47 | 0.95 | 0.71 | 0.45 | * | 0.47 | |
| | Head And Gut | 0.54 | - | 0.58 | * | 0.63 | * | 0.56 | * | 0.52 | * | |
| | Roe | 3.33 | 2.09 | 3.16 | 2.43 | 2.52 | 1.63 | 2.34 | 1.47 | 2.98 | 1.45 | |
| | Deep-Skin Fillets | 1.51 | 1.44 | 1.51 | 1.43 | 1.59 | 1.62 | 1.77 | 1.56 | 1.90 | * | |
| | Other Fillets | 1.16 | 1.17 | 1.30 | 1.31 | 1.50 | 1.47 | 1.50 | 1.40 | 1.59 | 1.48 | |
| | Surimi | 1.64 | 1.00 | 1.38 | 1.15 | 1.48 | 1.25 | 1.31 | 1.17 | 1.48 | 1.34 | |
| | Minced Fish | 0.69 | 0.63 | 0.68 | 0.66 | 0.81 | 0.74 | 0.91 | 0.78 | 1.21 | 0.85 | |
| | Fishmeal | 0.74 | 0.66 | 0.77 | 0.61 | 1.00 | 0.49 | 1.60 | 0.54 | 1.42 | 0.72 | |
| | Other Products | 0.55 | 0.33 | 0.56 | 0.38 | 0.51 | 0.36 | 0.60 | 0.40 | 0.63 | 0.41 | |
| | All Products | 1.33 | 0.96 | 1.27 | 1.07 | 1.38 | 1.12 | 1.40 | 1.05 | 1.51 | 1.13 | |
| | Pacific Cod | Whole Fish | 0.87 | * | 0.83 | 0.74 | 0.28 | 0.54 | 0.97 | 0.58 | * | 0.56 |
| | | Head And Gut | 1.63 | 1.20 | 1.89 | 1.70 | 1.67 | 1.23 | 1.50 | 1.08 | 1.73 | 1.01 |
| Roe | | 0.62 | 0.71 | 1.08 | 1.31 | 0.81 | 0.90 | 0.81 | 1.03 | 0.88 | 1.17 | |
| Fillets | | 1.79 | 3.73 | 2.98 | 4.14 | 3.18 | 3.93 | 3.22 | 3.74 | 4.20 | 4.30 | |
| Other Products | | 0.87 | 0.90 | 0.79 | 1.11 | 0.69 | 0.91 | 0.72 | 0.97 | 0.67 | 1.01 | |
| All Products | | 1.56 | 1.89 | 1.78 | 2.29 | 1.55 | 1.91 | 1.41 | 1.89 | 1.60 | 1.94 | |
| Sablefish | Head And Gut | 5.12 | 7.22 | 3.42 | 5.70 | 3.07 | 3.70 | 2.65 | 3.40 | 3.15 | 4.09 | |
| | Other Products | 0.87 | 6.31 | 0.61 | 8.58 | 0.90 | 1.67 | 1.12 | 3.22 | 0.89 | 4.38 | |
| | All Products | 4.68 | 7.16 | 3.02 | 5.92 | 2.85 | 3.64 | 2.62 | 3.39 | 3.12 | 4.10 | |
| | Products | | | | | | | | | | | |

Table 4.18: Bering Sea & Aleutian Islands price per pound of groundfish products by species and processing mode, 2020-2021, (\$/lb).
(continued)

| Product | 2020 | | 2018 | | 2019 | | 2020 | | 2021 | | |
|---------------|-----------------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|------|
| | At-Sea | Shoreside | At-Sea | Shoreside | At-Sea | Shoreside | At-Sea | Shoreside | At-Sea | Shoreside | |
| Atka Mackerel | Whole Fish | 0.84 | * | 1.03 | 0.70 | 0.94 | * | 0.73 | 0.51 | * | 0.50 |
| | Head And Gut | 1.47 | - | 1.41 | * | 1.16 | * | 1.06 | * | 0.91 | - |
| | Other Products | 0.55 | 0.80 | 0.77 | 0.70 | 0.58 | 0.56 | 0.79 | 0.52 | 0.88 | 0.55 |
| | All Products | 1.37 | 0.80 | 1.35 | 0.70 | 1.16 | 0.56 | 1.05 | 0.52 | 0.91 | 0.55 |
| | | | | | | | | | | | |
| Yellowfin | Whole Fish | 0.61 | - | 0.71 | 0.61 | 0.64 | - | 0.41 | - | 0.46 | - |
| | Head And Gut | 0.66 | - | 0.82 | - | 0.79 | - | 0.62 | - | 0.55 | - |
| | Fillets | * | - | - | - | - | - | - | - | - | - |
| | Other Products | 0.74 | 0.80 | 0.83 | 0.70 | 0.63 | 0.56 | 0.80 | 0.52 | 0.85 | 0.55 |
| | All Products | 0.65 | 0.80 | 0.81 | 0.62 | 0.78 | 0.56 | 0.60 | 0.52 | 0.55 | 0.55 |
| Rock Sole | Whole Fish | 0.59 | * | 0.75 | 0.46 | 0.90 | * | 0.47 | * | 0.57 | - |
| | Head And Gut | 0.65 | - | 0.83 | * | 0.79 | - | 0.64 | - | 0.52 | - |
| | Head And Gut With Roe | 1.24 | - | 1.50 | - | 1.32 | - | 1.28 | - | 0.90 | - |
| | Fillets | * | * | 2.73 | - | - | * | * | - | - | - |
| | Other Products | 0.63 | 0.80 | 0.72 | 0.70 | 0.58 | 0.56 | 0.79 | 0.52 | 0.86 | 0.55 |
| | All Products | 0.72 | 0.80 | 0.89 | 0.53 | 0.83 | 0.56 | 0.72 | 0.52 | 0.55 | 0.55 |

Table 4.18: Bering Sea & Aleutian Islands price per pound of groundfish products by species and processing mode, 2020-2021, (\$/lb).
(continued)

| Product | 2020 | | 2018 | | 2019 | | 2020 | | 2021 | | |
|-----------------------|-----------------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|------|
| | At-Sea | Shoreside | At-Sea | Shoreside | At-Sea | Shoreside | At-Sea | Shoreside | At-Sea | Shoreside | |
| Flathead Sole | Whole Fish | 0.61 | * | 0.82 | 0.52 | 0.80 | - | 0.58 | * | 0.42 | - |
| | Head And Gut | 0.87 | - | 0.98 | * | 0.86 | - | 0.64 | - | 0.59 | * |
| | Fillet | - | - | * | * | - | - | * | - | - | - |
| | Other | 0.59 | 0.80 | 0.70 | 0.70 | 0.57 | 0.56 | 0.80 | 0.52 | 0.85 | 0.55 |
| | Products | | | | | | | | | | |
| | All | 0.86 | 0.80 | 0.97 | 0.60 | 0.86 | 0.56 | 0.64 | 0.52 | 0.58 | 0.55 |
| Arrowtooth | Whole Fish | * | - | * | - | - | - | * | - | * | - |
| | Head And Gut | 1.30 | - | 0.87 | - | 0.88 | - | 0.72 | - | 0.73 | - |
| | Fillet | - | - | - | - | * | - | - | - | - | - |
| | Other | 0.65 | 0.80 | 0.70 | 0.70 | 0.58 | 0.56 | 0.81 | 0.52 | 0.84 | 0.55 |
| | Products | | | | | | | | | | |
| | All | 1.30 | 0.80 | 0.87 | 0.70 | 0.87 | 0.56 | 0.72 | 0.52 | 0.73 | 0.55 |
| Kamchatka Flounder | Whole Fish | - | - | - | - | - | - | * | - | - | - |
| | Head And Gut | 1.48 | - | 1.27 | - | 0.99 | - | 0.88 | - | 0.92 | - |
| | Fishmeal | 0.67 | - | 0.82 | - | 0.57 | * | 0.78 | - | 0.86 | - |
| | Other | - | - | * | - | - | - | * | - | - | - |
| | Products | | | | | | | | | | |
| | All | 1.48 | - | 1.27 | - | 0.99 | * | 0.88 | - | 0.92 | - |
| Turbot | Whole Fish | - | - | - | - | * | - | - | - | - | - |
| | Head And Gut | 2.41 | - | 2.44 | - | 2.51 | - | 2.17 | - | 2.17 | - |
| | Other | 1.45 | 0.80 | 1.04 | 0.70 | 1.03 | 0.56 | 1.18 | 0.52 | 1.14 | * |
| | Products | | | | | | | | | | |
| | All | 2.14 | 0.80 | 2.08 | 0.70 | 2.10 | 0.56 | 1.89 | 0.52 | 1.92 | * |

Table 4.18: Bering Sea & Aleutian Islands price per pound of groundfish products by species and processing mode, 2020-2021, (\$/lb).
(continued)

| | Product | 2020 | | 2018 | | 2019 | | 2020 | | 2021 | |
|---------------------|----------------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| | | At-Sea | Shoreside | At-Sea | Shoreside | At-Sea | Shoreside | At-Sea | Shoreside | At-Sea | Shoreside |
| Other Flatfish | Whole Fish | 0.78 | 1.62 | 0.68 | * | 1.26 | 1.37 | 1.03 | 0.30 | 0.76 | * |
| | Head And Gut | 0.81 | * | 0.64 | * | 0.65 | * | 0.60 | - | 0.44 | * |
| | Fillets | - | * | - | * | - | - | - | * | - | - |
| | Other Products | 0.65 | 0.80 | 0.82 | 0.71 | 0.57 | 0.57 | 0.80 | 0.54 | 0.83 | 0.57 |
| | All Products | 0.81 | 1.49 | 0.64 | 0.71 | 0.68 | 1.19 | 0.62 | 0.41 | 0.46 | 0.57 |
| | | | | | | | | | | | |
| Pacific Ocean Perch | Whole Fish | 0.57 | 0.54 | 0.61 | 0.61 | 0.72 | 0.44 | 0.73 | 0.41 | 0.48 | * |
| | Head And Gut | 1.14 | * | 1.11 | * | 0.82 | * | 0.75 | - | 0.77 | - |
| | Other Products | 0.60 | 0.80 | 0.70 | 0.70 | 0.57 | 1.33 | 0.82 | 0.52 | 0.87 | 0.55 |
| | All Products | 1.11 | 0.56 | 1.04 | 0.64 | 0.80 | 0.74 | 0.75 | 0.48 | 0.77 | 0.55 |
| | | | | | | | | | | | |
| Northern Rockfish | Whole Fish | - | * | * | * | - | * | - | * | - | - |
| | Head And Gut | 0.77 | - | 0.79 | * | 0.69 | * | 0.47 | - | 0.43 | - |
| | Other Products | 0.61 | * | 0.63 | * | 0.57 | 0.69 | 0.81 | 0.52 | 0.87 | 0.55 |
| | All Products | 0.77 | * | 0.79 | * | 0.69 | 0.69 | 0.47 | 0.52 | 0.43 | 0.55 |
| Other Rockfish | Whole Fish | 2.29 | 0.69 | 1.72 | * | 1.71 | * | 1.58 | * | 1.79 | * |
| | Head And Gut | 1.14 | 2.42 | 1.14 | 1.74 | 1.26 | 2.00 | 0.94 | 1.60 | 0.91 | * |
| | Other Products | 0.75 | 0.76 | 0.87 | 0.82 | 0.57 | 0.78 | 0.79 | 0.84 | 1.21 | 0.94 |
| | All Products | 1.58 | 1.93 | 1.31 | 1.58 | 1.35 | 1.71 | 1.21 | 1.41 | 1.32 | 0.94 |
| | | | | | | | | | | | |

Table 4.18: Bering Sea & Aleutian Islands price per pound of groundfish products by species and processing mode, 2020-2021, (\$/lb).
(continued)

| Product | 2020 | | 2018 | | 2019 | | 2020 | | 2021 | |
|----------------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| | At-Sea | Shoreside | At-Sea | Shoreside | At-Sea | Shoreside | At-Sea | Shoreside | At-Sea | Shoreside |
| Whole Fish | * | 0.80 | 0.12 | 1.08 | 1.54 | 0.64 | * | 1.11 | 0.59 | 0.47 |
| Head And Gut | 0.78 | * | 0.81 | 2.70 | 1.19 | 1.10 | 0.71 | 1.09 | 2.09 | * |
| Roe | - | - | * | - | - | - | - | - | - | - |
| Fillet | - | - | * | - | - | - | - | - | - | - |
| Fishmeal | 0.71 | 0.78 | 0.74 | 0.70 | 0.57 | 0.57 | 0.84 | 0.52 | 0.88 | 0.55 |
| Other Products | 0.84 | * | 1.01 | 1.43 | 0.89 | * | 0.83 | * | 0.74 | 1.24 |
| All Products | 0.84 | 0.79 | 1.00 | 1.23 | 0.88 | 0.62 | 0.83 | 0.56 | 0.77 | 0.51 |

Note These estimates are based on data from both federal and state of Alaska fisheries. Prices based on confidential data have been excluded. Values are not adjusted for inflation. "*" indicates a confidential value; "-" indicates no applicable data or value.

Source NMFS Alaska Region At-sea and Shoreside Production Reports; and ADF&G Commercial Operators Annual Reports (COAR). Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.19: Bering Sea & Aleutian Islands total product value per round metric ton of retained catch by processor type, species, and year, 2020-2021, (\$/mt).

| Sector | Species | 2017 | 2018 | 2019 | 2020 | 2021 |
|----------------------|-------------|--------|-------|-------|-------|-------|
| Motherships | Pollock | * | 974 | 1,007 | 918 | 1,011 |
| | Pacific Cod | * | 397 | 331 | 297 | * |
| Catcher/Processors | Pollock | 1,128 | 1,063 | 1,192 | 1,095 | 1,120 |
| | Sablefish | 5,788 | 4,565 | 3,671 | 2,752 | 3,517 |
| | Pacific Cod | 1,756 | 2,024 | 1,808 | 1,613 | 1,837 |
| | Flatfish | 969 | 1,076 | 1,060 | 859 | 735 |
| | Rockfish | 1,162 | 1,142 | 864 | 753 | 787 |
| | Atka | 1,977 | 1,845 | 1,501 | 1,357 | 1,171 |
| | Mackerel | | | | | |
| | Other | 473 | 629 | 575 | 483 | 421 |
| Shoreside Processors | Pollock | 860 | 959 | 1,032 | 893 | 958 |
| | Sablefish | 11,007 | 6,856 | 3,089 | 1,983 | 4,511 |
| | Pacific Cod | 1,714 | 2,268 | 1,706 | 1,558 | 1,730 |
| | Flatfish | 690 | 621 | 625 | 502 | 404 |
| | Rockfish | 958 | 867 | 733 | 459 | 619 |
| | Other | 934 | 1,246 | 4,647 | 5,191 | 5,255 |

Note These estimates include the product value of catch from both federal and state of Alaska fisheries. Values are not adjusted for inflation. '*' indicates a confidential value; '-' indicates no applicable data or value.

Source NMFS Alaska Region At-sea and Shoreside Production Reports; ADF&G Commercial Operators Annual Reports (COAR); and NMFS Alaska Region Blend and Catch-accounting System estimates. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.20: Bering Sea & Aleutian Islands number of processors, gross product value, value per processor, and percent value of BSAI FMP groundfish of processed groundfish by processor group, 2020-2021 (\$ millions).

| | Year | Processors | Wholesale Value (\$million) | Wholesale Value per Processor (\$1,000) | Percent Value, BSAI FMP Groundfish |
|---------------------------------------|------|------------|-----------------------------|---|------------------------------------|
| AFA CP | 2017 | 16 | 747.99 | 46,749.63 | 36.34 |
| | 2018 | 14 | 678.20 | 48,442.66 | 31.91 |
| | 2019 | 15 | 808.70 | 53,913.09 | 37.89 |
| | 2020 | 13 | 679.31 | 52,254.47 | 36.20 |
| | 2021 | 15 | 727.83 | 48,521.69 | 39.79 |
| A80 | 2017 | 19 | 392.40 | 20,652.76 | 19.07 |
| | 2018 | 19 | 426.16 | 22,429.62 | 20.05 |
| | 2019 | 20 | 373.07 | 18,653.72 | 17.48 |
| | 2020 | 19 | 311.26 | 16,382.01 | 16.58 |
| | 2021 | 19 | 244.16 | 12,850.41 | 13.35 |
| CP Hook and Line | 2017 | 29 | 246.04 | 8,484.03 | 11.95 |
| | 2018 | 26 | 225.39 | 8,668.79 | 10.61 |
| | 2019 | 24 | 183.18 | 7,632.61 | 8.58 |
| | 2020 | 21 | 139.30 | 6,633.32 | 7.42 |
| | 2021 | 17 | 130.30 | 7,664.92 | 7.12 |
| Sablefish IFQ | 2017 | 6 | 1.68 | 280.05 | 0.08 |
| | 2018 | 8 | 1.84 | 230.39 | 0.09 |
| | 2019 | 5 | 0.70 | 139.83 | 0.03 |
| | 2020 | 4 | 1.61 | 403.70 | 0.09 |
| | 2021 | 4 | 2.48 | 619.37 | 0.14 |
| Motherships & Inshore Floating Procs. | 2017 | 2 | * | * | * |
| | 2018 | 3 | 116.49 | 38,828.46 | 5.48 |
| | 2019 | 4 | 123.52 | 30,879.46 | 5.79 |
| | 2020 | 3 | 111.94 | 37,312.65 | 5.96 |
| | 2021 | 3 | 122.18 | 40,727.51 | 6.68 |
| BSAI Shoreside Processors | 2017 | 7 | 555.74 | 79,391.83 | 27.00 |
| | 2018 | 7 | 629.17 | 89,881.78 | 29.60 |
| | 2019 | 7 | 638.33 | 91,189.69 | 29.91 |
| | 2020 | 7 | 605.58 | 86,511.87 | 32.27 |
| | 2021 | 8 | 598.18 | 74,772.84 | 32.70 |

Note The data are for catch from both federal and state of Alaska fisheries. The processor groups are defined as follows: “AFA CP” are the AFA catcher processors. “A80” are the catcher processors as defined under Amendment 80 of the BSAI FMP; “CP Hook and Line” are the hook and line catcher processors. “Sablefish IFQ” are processors processing sablefish IFQ. Values are not adjusted for inflation.

Source ADF&G Commercial Operators Annual Reports (COAR); and ADF&G Intent to Operate (ITO) file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.21: Bering Sea & Aleutian Islands number of vessels, average and median length, and average and median capacity (tonnage) of vessels that caught groundfish by vessel type, and gear, 2020-2021.

| | Year | Vessels | Average Length (feet) | Median Length (feet) | Average Capacity (tons) | Median Capacity (tons) |
|------------------|------|---------|-----------------------|----------------------|-------------------------|------------------------|
| AFA CV | 2017 | 86 | 126 | 123.0 | 159 | 133 |
| | 2018 | 86 | 127 | 123.0 | 162 | 133 |
| | 2019 | 82 | 127 | 123.0 | 161 | 133 |
| | 2020 | 86 | 128 | 124.0 | 164 | 135 |
| | 2021 | 82 | 127 | 124.0 | 163 | 135 |
| AFA CP | 2017 | 16 | 290 | 285.0 | 1,562 | 1,592 |
| | 2018 | 15 | 301 | 285.0 | 1,838 | 1,747 |
| | 2019 | 16 | 292 | 296.0 | 1,645 | 1,592 |
| | 2020 | 13 | 306 | 300.0 | 1,907 | 1,747 |
| | 2021 | 15 | 292 | 285.0 | 1,698 | 1,647 |
| A80 | 2017 | 19 | 181 | 185.0 | 466 | 473 |
| | 2018 | 19 | 181 | 185.0 | 458 | 473 |
| | 2019 | 20 | 185 | 185.0 | 471 | 473 |
| | 2020 | 19 | 189 | 186.0 | 500 | 586 |
| | 2021 | 19 | 191 | 186.0 | 508 | 586 |
| BSAI Trawl | 2017 | 16 | 122 | 112.0 | 171 | 132 |
| | 2018 | 21 | 150 | 144.0 | 301 | 276 |
| | 2019 | 18 | 127 | 130.0 | 188 | 132 |
| | 2020 | 15 | 150 | 144.0 | 296 | 276 |
| | 2021 | 14 | 118 | 130.0 | 158 | 132 |
| CV Hook and Line | 2017 | 3 | 55 | 59.0 | 40 | 47 |
| | 2018 | 6 | 53 | 56.0 | 75 | 95 |
| | 2019 | 8 | 44 | 38.0 | 27 | 29 |
| | 2020 | 9 | 44 | 39.0 | 26 | 21 |
| | 2021 | 2 | 35 | 35.0 | 20 | 20 |
| CP Hook and Line | 2017 | 28 | 148 | 141.0 | 350 | 296 |
| | 2018 | 25 | 148 | 141.0 | 336 | 258 |
| | 2019 | 23 | 152 | 150.0 | 372 | 308 |
| | 2020 | 20 | 151 | 140.0 | 378 | 303 |
| | 2021 | 17 | 151 | 140.0 | 392 | 308 |
| Sablefish IFQ | 2017 | 23 | 86 | 72.0 | 111 | 96 |
| | 2018 | 27 | 92 | 98.0 | 122 | 127 |
| | 2019 | 21 | 92 | 72.0 | 144 | 105 |
| | 2020 | 18 | 86 | 58.0 | 126 | 105 |
| | 2021 | 24 | 85 | 58.0 | 125 | 98 |
| Pot | 2017 | 65 | 83 | 58.0 | 118 | 105 |
| | 2018 | 78 | 80 | 58.0 | 107 | 105 |
| | 2019 | 83 | 76 | 58.0 | 102 | 105 |
| | 2020 | 94 | 74 | 58.0 | 99 | 99 |
| | 2021 | 66 | 73 | 58.0 | 107 | 105 |

Table 4.21: Bering Sea & Aleutian Islands number of vessels, average and median length, and average and median capacity (tonnage) of vessels that caught groundfish by vessel type, and gear, 2020-2021. (continued)

| | Year | Vessels | Average Length (feet) | Median Length (feet) | Average Capacity (tons) | Median Capacity (tons) |
|--------------------|------|---------|-----------------------|----------------------|-------------------------|------------------------|
| Jig | 2017 | 1 | 42 | 42.0 | 26 | 26 |
| | 2018 | 1 | 42 | 42.0 | 26 | 26 |
| | 2019 | 3 | 46 | 42.0 | 29 | 26 |
| | 2020 | 3 | 41 | 42.0 | 28 | 26 |
| | 2021 | 1 | 42 | 42.0 | 26 | 26 |
| No Fleet/ Other | 2017 | 2 | 31 | 30.0 | 14 | 13 |
| | 2018 | 1 | 34 | 34.0 | 17 | 17 |
| | 2020 | 1 | 34 | 34.0 | 17 | 17 |
| | 2021 | 1 | 51 | 51.0 | 21 | 21 |

Note 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 and Catch-accounting System estimates; CFEC gross earnings (fish tickets) file; NMFS Alaska Region groundfish observer data; NMFS Alaska Region permit data; CFEC vessel registration file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.22: Bering Sea & Aleutian Islands number of vessels that caught groundfish by month, vessel type, and gear, 2020-2021.

| | Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year |
|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Catcher Vessels | | | | | | | | | | | | | | |
| <i>Hook And Line</i> | | | | | | | | | | | | | | |
| | 2017 | - | 1 | 2 | 2 | 4 | 3 | 7 | 4 | 9 | 2 | - | - | 18 |
| | 2018 | - | - | 4 | 5 | 2 | 3 | 5 | 5 | 7 | 4 | 5 | 1 | 19 |
| | 2019 | 2 | 4 | 6 | 6 | 5 | 4 | 3 | 4 | 5 | 4 | 4 | 1 | 17 |
| | 2020 | 1 | 5 | 6 | 10 | 6 | 2 | 4 | 5 | 2 | 2 | 1 | - | 17 |
| | 2021 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 3 | 3 | - | 9 |
| <i>Pot</i> | | | | | | | | | | | | | | |
| | 2017 | 48 | 21 | 25 | 25 | 7 | 4 | 1 | - | 11 | 13 | 15 | 33 | 63 |
| | 2018 | 58 | 37 | 37 | 6 | 5 | 3 | - | - | 19 | 25 | 17 | 11 | 76 |
| | 2019 | 72 | 41 | 42 | 5 | 3 | 2 | 1 | 1 | 28 | 12 | 12 | 10 | 80 |
| | 2020 | 77 | 47 | 48 | 6 | 3 | 5 | 4 | 2 | 30 | 7 | 2 | 2 | 96 |
| | 2021 | 46 | 36 | 37 | 10 | 4 | 7 | 7 | 6 | 24 | 10 | 6 | 1 | 70 |
| <i>Trawl</i> | | | | | | | | | | | | | | |
| | 2017 | 71 | 92 | 79 | 70 | 6 | 68 | 69 | 65 | 46 | 14 | 2 | - | 102 |
| | 2018 | 77 | 96 | 91 | 62 | 8 | 61 | 67 | 70 | 60 | 3 | 3 | - | 105 |
| | 2019 | 80 | 92 | 90 | 66 | 6 | 56 | 66 | 74 | 58 | 26 | 6 | - | 100 |
| | 2020 | 81 | 85 | 87 | 59 | 14 | 60 | 72 | 74 | 73 | 62 | 6 | - | 99 |
| | 2021 | 29 | 80 | 87 | 88 | 42 | 59 | 64 | 69 | 50 | 25 | 2 | - | 96 |
| <i>All Gear</i> | | | | | | | | | | | | | | |
| | 2017 | 119 | 114 | 106 | 97 | 17 | 75 | 77 | 69 | 66 | 29 | 17 | 33 | 182 |
| | 2018 | 135 | 132 | 129 | 73 | 15 | 67 | 72 | 75 | 86 | 32 | 24 | 12 | 196 |
| | 2019 | 154 | 137 | 138 | 77 | 14 | 62 | 70 | 79 | 91 | 42 | 22 | 11 | 195 |
| | 2020 | 159 | 137 | 141 | 75 | 23 | 67 | 77 | 79 | 104 | 71 | 9 | 2 | 206 |
| | 2021 | 76 | 117 | 125 | 100 | 48 | 67 | 72 | 76 | 75 | 37 | 11 | 1 | 171 |
| Catcher Processors | | | | | | | | | | | | | | |
| <i>Hook And Line</i> | | | | | | | | | | | | | | |
| | 2017 | 27 | 27 | 26 | 21 | 11 | 20 | 25 | 26 | 25 | 24 | 24 | 24 | 29 |
| | 2018 | 22 | 24 | 21 | 14 | 6 | 16 | 18 | 20 | 20 | 21 | 21 | 18 | 27 |
| | 2019 | 17 | 18 | 20 | 14 | 6 | 10 | 17 | 21 | 21 | 19 | 16 | 14 | 25 |
| | 2020 | 15 | 16 | 15 | 13 | 7 | 7 | 13 | 16 | 17 | 15 | 15 | 8 | 21 |
| | 2021 | 12 | 12 | 12 | 11 | 8 | 12 | 13 | 16 | 15 | 10 | 6 | 4 | 17 |
| <i>Pot</i> | | | | | | | | | | | | | | |
| | 2017 | 5 | 2 | 2 | 2 | - | - | - | 1 | 5 | 5 | 2 | 3 | 6 |
| | 2018 | 5 | 2 | 2 | 2 | 1 | 1 | - | 1 | 5 | 2 | - | 1 | 6 |
| | 2019 | 5 | 2 | 2 | - | - | - | - | - | 5 | 1 | 3 | 2 | 6 |
| | 2020 | 5 | 1 | 2 | 2 | 1 | - | - | 1 | 5 | 2 | - | - | 5 |
| | 2021 | 3 | 1 | 1 | 2 | 1 | - | - | - | 3 | 3 | 2 | 1 | 5 |
| <i>Trawl</i> | | | | | | | | | | | | | | |
| | 2017 | 26 | 33 | 33 | 27 | 19 | 29 | 32 | 32 | 29 | 19 | 14 | 2 | 35 |
| | 2018 | 29 | 33 | 35 | 25 | 21 | 29 | 30 | 33 | 33 | 22 | 14 | 4 | 35 |
| | 2019 | 27 | 34 | 35 | 25 | 22 | 30 | 29 | 32 | 30 | 29 | 15 | 3 | 35 |
| | 2020 | 27 | 34 | 34 | 24 | 19 | 22 | 28 | 31 | 30 | 28 | 16 | 6 | 34 |
| | 2021 | 26 | 33 | 33 | 31 | 20 | 30 | 27 | 31 | 26 | 19 | 13 | 6 | 34 |
| <i>All Gear</i> | | | | | | | | | | | | | | |
| | 2017 | 58 | 62 | 61 | 50 | 30 | 49 | 57 | 58 | 59 | 48 | 40 | 29 | 68 |
| | 2018 | 56 | 59 | 58 | 41 | 28 | 46 | 48 | 54 | 58 | 45 | 35 | 23 | 66 |
| | 2019 | 49 | 54 | 57 | 39 | 28 | 40 | 46 | 53 | 56 | 49 | 34 | 19 | 65 |
| | 2020 | 47 | 51 | 51 | 38 | 27 | 29 | 41 | 48 | 52 | 45 | 31 | 14 | 59 |
| | 2021 | 41 | 46 | 46 | 44 | 29 | 42 | 40 | 47 | 43 | 32 | 21 | 11 | 55 |

Note 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 and Catch-accounting System estimates; CFEC gross earnings (fish tickets) file; NMFS Alaska Region groundfish observer data; NMFS Alaska Region permit data; CFEC vessel registration file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.23: Bering Sea & Aleutian Islands catcher vessel (excluding catcher/processors) weeks of fishing groundfish by vessel-length class (feet), gear, and target, 2020-2021.

| | Year | Trawl | | Hook & Line | | | Pot | | | All Gear | | |
|---------------|------|-------|----------|-------------|----------|----------|-------|----------|----------|----------|----------|----------|
| | | <60ft | 60-124ft | <60ft | 60-124ft | >= 125ft | <60ft | 60-124ft | >= 125ft | <60ft | 60-124ft | >= 125ft |
| Pollock | 2017 | - | - | - | - | - | - | 844 | 517 | - | - | - |
| | 2018 | - | - | - | - | - | - | 900 | 521 | - | - | - |
| | 2019 | - | - | - | - | - | 0 | 945 | 534 | - | - | - |
| | 2020 | - | - | - | - | - | - | 1,176 | 727 | - | - | - |
| | 2021 | - | - | - | - | - | - | 988 | 607 | - | - | - |
| Sablefish | 2017 | 29 | 6 | - | 25 | 12 | - | - | - | - | - | - |
| | 2018 | 13 | 14 | 15 | 20 | 6 | - | - | - | - | - | - |
| | 2019 | 6 | 14 | 18 | 13 | 7 | - | - | - | - | - | - |
| | 2020 | 2 | 2 | 32 | 9 | 5 | - | - | - | - | - | - |
| | 2021 | 6 | 3 | 60 | 23 | 10 | - | - | - | - | - | - |
| Pacific Cod | 2017 | 21 | - | 395 | 173 | 39 | - | 208 | 33 | - | - | - |
| | 2018 | 47 | 1 | 373 | 152 | 29 | 37 | 199 | 44 | - | - | - |
| | 2019 | 82 | - | 458 | 153 | 24 | 6 | 143 | 40 | - | - | - |
| | 2020 | 86 | 1 | 486 | 148 | 22 | 7 | 108 | 23 | - | - | - |
| | 2021 | 18 | - | 408 | 137 | 7 | 23 | 100 | 21 | - | - | - |
| Flatfish | 2017 | - | - | - | - | - | - | 48 | 53 | - | - | - |
| | 2018 | - | - | - | - | - | - | 32 | 46 | - | - | - |
| | 2019 | 1 | - | - | - | - | - | 59 | 72 | - | - | - |
| | 2020 | - | - | - | - | - | - | 48 | 51 | - | - | - |
| | 2021 | - | - | - | - | - | - | 28 | 30 | - | - | - |
| Rockfish | 2017 | - | - | - | - | - | - | 3 | 4 | - | - | - |
| | 2018 | 0 | - | - | - | - | - | 3 | 3 | - | - | - |
| | 2019 | 1 | - | - | - | - | - | 4 | 11 | - | - | - |
| | 2020 | - | - | - | - | - | - | 5 | 13 | - | - | - |
| | 2021 | - | - | - | - | - | - | 2 | 6 | - | - | - |
| Atka Mackerel | 2017 | - | - | - | - | - | - | 5 | 15 | - | - | - |
| | 2018 | - | - | - | - | - | - | 9 | 21 | - | - | - |
| | 2019 | - | - | - | - | - | - | 4 | 8 | - | - | - |
| | 2020 | - | - | - | - | - | - | 7 | 18 | - | - | - |
| | 2021 | - | - | - | - | - | - | 5 | 12 | - | - | - |

Table 4.23: Bering Sea & Aleutian Islands catcher vessel (excluding catcher/processors) weeks of fishing groundfish by vessel-length class (feet), gear, and target, 2020-2021. *(continued)*

| | Year | Trawl | | Hook & Line | | | Pot | | | All Gear | | |
|-------------------|------|-------|----------|-------------|----------|----------|-------|----------|----------|----------|----------|----------|
| | | <60ft | 60-124ft | <60ft | 60-124ft | >= 125ft | <60ft | 60-124ft | >= 125ft | <60ft | 60-124ft | >= 125ft |
| All Groundfish | 2017 | 50 | 6 | - | - | - | - | 1,109 | 623 | 445 | 1,312 | 674 |
| | 2018 | 60 | 15 | - | - | - | 37 | 1,143 | 635 | 486 | 1,330 | 670 |
| | 2019 | 90 | 14 | - | - | - | 6 | 1,154 | 664 | 572 | 1,334 | 695 |
| | 2020 | 88 | 3 | - | - | - | 7 | 1,344 | 832 | 614 | 1,504 | 859 |
| | 2021 | 24 | 3 | - | - | - | 23 | 1,123 | 677 | 516 | 1,285 | 694 |

Note 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 Blend and Catch-accounting System estimates; CFEC gross earnings (fish tickets) file; NMFS Alaska Region groundfish observer data; NMFS Alaska Region permit data; CFEC vessel registration file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.24: Bering Sea & Aleutian Islands catcher/processor vessel weeks of fishing groundfish by vessel-length class (feet), gear, and target, 2020-2021.

| | Year | Hook & Line | | | Pot | | | Trawl | | | All Gear | | | |
|---------------|------|-------------|----------|-----------|-------|----------|-----------|----------|-----------|--------|----------|----------|-----------|--------|
| | | <60ft | 60-124ft | 125-230ft | <60ft | 60-124ft | 125-230ft | 60-124ft | 125-230ft | >230ft | <60ft | 60-124ft | 125-230ft | >230ft |
| Pollock | 2017 | - | - | - | - | - | - | 0 | 5 | 301 | - | - | - | - |
| | 2018 | - | - | - | - | - | - | 0 | 6 | 317 | - | - | - | - |
| | 2019 | - | - | - | - | - | - | 2 | 7 | 312 | - | - | - | - |
| | 2020 | - | - | - | - | - | - | 0 | 10 | 332 | - | - | - | - |
| | 2021 | - | - | - | - | - | - | 2 | 8 | 296 | - | - | - | - |
| Sablefish | 2017 | 19 | - | 1 | - | 9 | - | 0 | 0 | - | - | - | - | - |
| | 2018 | 0 | 6 | 2 | - | 17 | - | - | 3 | - | - | - | - | - |
| | 2019 | 7 | - | 1 | - | - | 7 | - | 0 | - | - | - | - | - |
| | 2020 | - | - | 2 | - | - | 9 | 0 | 1 | - | - | - | - | - |
| | 2021 | - | 0 | 2 | - | - | 17 | - | 1 | - | - | - | - | - |
| Pacific Cod | 2017 | 8 | 207 | 762 | 13 | 20 | 44 | 1 | 11 | 7 | - | - | - | - |
| | 2018 | 9 | 126 | 640 | - | 28 | 23 | 2 | 17 | 7 | - | - | - | - |
| | 2019 | 7 | 57 | 599 | 15 | 21 | 21 | 1 | 11 | 8 | - | - | - | - |
| | 2020 | 2 | 62 | 482 | - | 19 | 21 | 0 | 5 | 2 | - | - | - | - |
| | 2021 | - | 45 | 406 | - | 22 | 15 | 0 | 4 | 4 | - | - | - | - |
| Flatfish | 2017 | - | - | 26 | - | 0 | - | 88 | 406 | 52 | - | - | - | - |
| | 2018 | - | - | 13 | - | - | - | 94 | 421 | 56 | - | - | - | - |
| | 2019 | - | - | 16 | - | - | - | 95 | 435 | 76 | - | - | - | - |
| | 2020 | - | - | 10 | - | - | - | 57 | 425 | 70 | - | - | - | - |
| | 2021 | - | - | - | - | - | - | 64 | 364 | 66 | - | - | - | - |
| Rockfish | 2017 | - | - | - | - | - | - | 3 | 45 | 4 | - | - | - | - |
| | 2018 | - | - | 1 | - | - | - | 3 | 43 | 6 | - | - | - | - |
| | 2019 | - | - | 0 | - | - | - | 5 | 60 | 8 | - | - | - | - |
| | 2020 | - | - | 0 | - | - | - | 5 | 61 | 7 | - | - | - | - |
| | 2021 | - | 0 | 0 | - | - | - | 9 | 55 | 11 | - | - | - | - |
| Atka Mackerel | 2017 | - | - | - | - | - | - | 7 | 105 | 11 | - | - | - | - |
| | 2018 | - | - | - | - | - | - | 7 | 122 | 12 | - | - | - | - |
| | 2019 | - | - | - | - | - | - | 5 | 88 | 12 | - | - | - | - |
| | 2020 | - | - | - | - | - | - | 5 | 96 | 6 | - | - | - | - |
| | 2021 | - | - | - | - | - | - | 6 | 113 | 14 | - | - | - | - |

Table 4.24: Bering Sea & Aleutian Islands catcher/processor vessel weeks of fishing groundfish by vessel-length class (feet), gear, and target, 2020-2021. (continued)

| | Year | Hook & Line | | | Pot | | | Trawl | | | All Gear | | | |
|-------------------|------|-------------|----------|-----------|-------|----------|-----------|----------|-----------|--------|----------|----------|-----------|--------|
| | | <60ft | 60-124ft | 125-230ft | <60ft | 60-124ft | 125-230ft | 60-124ft | 125-230ft | >230ft | <60ft | 60-124ft | 125-230ft | >230ft |
| All Groundfish | 2017 | 27 | 207 | 790 | 13 | 29 | 44 | 99 | 574 | 375 | 40 | 336 | 1,408 | 375 |
| | 2018 | 9 | 132 | 656 | - | 45 | 23 | 106 | 611 | 397 | 9 | 284 | 1,291 | 397 |
| | 2019 | 14 | 57 | 618 | 15 | 21 | 28 | 108 | 601 | 416 | 29 | 186 | 1,247 | 416 |
| | 2020 | 2 | 62 | 494 | - | 19 | 30 | 67 | 599 | 418 | 2 | 148 | 1,123 | 418 |
| | 2021 | - | 45 | 409 | - | 22 | 32 | 81 | 544 | 391 | - | 148 | 985 | 391 |

Note 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 Blend and Catch-accounting System estimates; CFEC gross earnings (fish tickets) file; NMFS Alaska Region groundfish observer data; NMFS Alaska Region permit data; CFEC vessel registration file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.25: Bering Sea & Aleutian Islands catcher vessel crew weeks in the groundfish fisheries by month, 2020-2021.

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year |
|------|---------|---------|---------|---------|-------|-------|---------|---------|---------|---------|-------|-------|----------|
| 2017 | 1,102.0 | 1,768.5 | 1,660.5 | 989.0 | 238.0 | 739.0 | 1,430.0 | 1,115.5 | 871.5 | 339.5 | 236.5 | 241.5 | 10,731.5 |
| 2018 | 1,229.0 | 2,049.0 | 2,043.0 | 708.0 | 201.0 | 822.0 | 1,167.5 | 1,314.0 | 1,254.0 | 427.0 | 169.0 | 120.5 | 11,504.0 |
| 2019 | 1,082.0 | 2,013.5 | 2,116.0 | 649.0 | 225.0 | 729.0 | 1,050.0 | 1,475.0 | 1,254.0 | 465.5 | 345.5 | 94.5 | 11,499.0 |
| 2020 | 1,124.5 | 2,644.0 | 1,843.0 | 793.0 | 308.0 | 601.0 | 1,031.0 | 1,701.5 | 1,676.0 | 1,275.5 | 53.0 | - | 13,050.5 |
| 2021 | 882.0 | 1,698.0 | 2,008.0 | 1,511.0 | 307.0 | 656.0 | 1,357.5 | 1,238.0 | 1,053.0 | 550.0 | 150.0 | 26.0 | 11,436.5 |

Note 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. "*" indicates a confidential value; "-" indicates no applicable data or value.

Source NMFS Alaska Region At-sea Production Reports. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.26: Bering Sea & Aleutian Islands at-sea processor vessel crew weeks in the groundfish fisheries by month, 2020-2021.

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year |
|------|-------|--------|--------|-------|-------|-------|--------|--------|--------|--------|-------|-------|--------|
| 2017 | 6,262 | 12,765 | 12,817 | 7,719 | 3,454 | 6,229 | 14,410 | 11,861 | 9,408 | 4,966 | 3,641 | 2,055 | 95,587 |
| 2018 | 5,792 | 13,559 | 15,843 | 5,232 | 3,750 | 8,022 | 11,726 | 12,878 | 12,374 | 4,982 | 3,201 | 1,897 | 99,256 |
| 2019 | 3,705 | 13,534 | 16,009 | 4,825 | 3,979 | 6,887 | 11,256 | 15,040 | 11,163 | 7,559 | 4,094 | 1,198 | 99,249 |
| 2020 | 3,824 | 16,312 | 12,475 | 4,929 | 4,013 | 4,183 | 9,344 | 13,599 | 11,198 | 10,443 | 3,071 | 834 | 94,225 |
| 2021 | 3,603 | 11,024 | 11,965 | 6,540 | 3,711 | 6,205 | 13,098 | 10,813 | 7,792 | 3,722 | 1,979 | 809 | 81,261 |

Note 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 at-sea crew weeks in all areas. "*" indicates a confidential value; "-" indicates no applicable data or value.

Source NMFS Alaska Region At-sea Production Reports. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

4.3 Gulf of Alaska Economic Data Tables

Table 4.27: Gulf of Alaska groundfish retained catch by vessel type, gear, and species, 2017-2021 (1,000 metric tons, round weight).

| | Year | Central Gulf | | | | Western Gulf | | | | All Gulf | | | |
|------------------|------|---------------------|------|-------|----------|---------------------|------|-------|----------|---------------------|------|-------|----------|
| | | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear |
| Pollock | 2017 | - | - | 133.1 | 133.2 | - | - | 49.2 | 49.2 | - | - | 184.2 | 184.3 |
| | 2018 | - | - | 118.3 | 118.3 | - | - | 30.5 | 30.5 | - | - | 155.7 | 155.8 |
| | 2019 | - | - | 87.8 | 87.8 | - | - | 21.7 | 21.7 | - | - | 118.7 | 118.7 |
| | 2020 | - | - | 80.5 | 80.5 | - | - | 19.0 | 19.0 | - | - | 106.8 | 106.8 |
| | 2021 | - | - | 74.8 | 74.8 | - | - | 15.7 | 15.7 | - | - | 97.6 | 97.6 |
| Pacific Cod | 2017 | 3.8 | 11.3 | 5.3 | 20.5 | 4.4 | 15.0 | 7.6 | 27.0 | 8.7 | 26.4 | 12.9 | 48.0 |
| | 2018 | 1.5 | 3.1 | 2.1 | 6.7 | 1.4 | 4.5 | 1.4 | 7.3 | 3.3 | 7.6 | 3.5 | 14.4 |
| | 2019 | 1.5 | 3.2 | 2.1 | 6.8 | 1.3 | 4.3 | 1.6 | 7.2 | 3.3 | 7.5 | 3.7 | 14.4 |
| | 2020 | 0.4 | 1.0 | 2.2 | 3.6 | 0.2 | 0.7 | 0.1 | 1.1 | 1.0 | 1.7 | 2.3 | 5.1 |
| | 2021 | 3.4 | 4.4 | 3.3 | 11.0 | 1.4 | 3.2 | 1.6 | 6.2 | 5.1 | 7.6 | 4.9 | 17.6 |
| Sablefish | 2017 | 3.0 | 0.4 | 0.7 | 4.2 | 0.8 | 0.2 | 0.1 | 1.1 | 8.2 | 0.9 | 1.0 | 10.1 |
| | 2018 | 2.9 | 0.5 | 0.6 | 4.0 | 0.7 | 0.4 | 0.1 | 1.2 | 8.4 | 1.1 | 0.9 | 10.5 |
| | 2019 | 2.5 | 1.1 | 0.7 | 4.3 | 0.7 | 0.4 | 0.3 | 1.3 | 7.8 | 1.9 | 1.1 | 10.8 |
| | 2020 | 1.2 | 2.5 | 0.8 | 4.6 | 0.2 | 1.0 | 0.2 | 1.4 | 5.6 | 4.7 | 1.0 | 11.3 |
| | 2021 | 0.6 | 5.2 | 0.9 | 6.6 | 0.1 | 1.6 | 0.2 | 1.9 | 4.3 | 9.8 | 1.0 | 15.2 |
| Atka Mackerel | 2017 | - | - | 0.2 | 0.2 | - | - | 0.4 | 0.4 | - | - | 0.7 | 0.7 |
| | 2018 | - | - | 0.7 | 0.7 | - | - | 0.6 | 0.6 | - | - | 1.3 | 1.3 |
| | 2019 | - | - | 0.5 | 0.5 | - | - | 0.6 | 0.6 | - | - | 1.1 | 1.1 |
| | 2020 | - | - | 0.0 | 0.0 | - | - | 0.5 | 0.5 | - | - | 0.5 | 0.5 |
| | 2021 | - | - | 0.2 | 0.2 | - | - | 0.3 | 0.3 | - | - | 0.6 | 0.6 |
| Arrowtooth | 2017 | 0.0 | - | 24.8 | 24.8 | 0.0 | - | 0.1 | 0.1 | 0.0 | - | 24.9 | 24.9 |
| | 2018 | 0.0 | - | 16.2 | 16.2 | 0.0 | - | 0.0 | 0.1 | 0.0 | - | 16.3 | 16.3 |
| | 2019 | * | - | 22.4 | 22.4 | * | - | 0.2 | 0.2 | 0.0 | - | 22.6 | 22.6 |
| | 2020 | * | - | 19.5 | 19.5 | 0.0 | - | 0.2 | 0.2 | 0.0 | - | 19.8 | 19.8 |
| | 2021 | 0.0 | - | 7.6 | 7.6 | * | - | 0.1 | 0.1 | 0.0 | - | 7.7 | 7.7 |
| Flathead Sole | 2017 | - | - | 1.9 | 1.9 | - | - | 0.0 | 0.0 | - | - | 1.9 | 1.9 |
| | 2018 | - | - | 2.0 | 2.0 | - | - | 0.0 | 0.0 | - | - | 2.0 | 2.0 |
| | 2019 | - | - | 2.1 | 2.1 | * | - | 0.0 | 0.0 | * | - | 2.2 | 2.2 |
| | 2020 | - | - | 1.8 | 1.8 | - | - | 0.1 | 0.1 | - | - | 1.8 | 1.8 |
| | 2021 | - | - | 0.3 | 0.3 | - | - | 0.1 | 0.1 | - | - | 0.3 | 0.3 |

Table 4.27: Gulf of Alaska groundfish retained catch by vessel type, gear, and species, 2017-2021 (1,000 metric tons, round weight).
(continued)

| | Year | Central Gulf | | | | Western Gulf | | | | All Gulf | | | |
|---------------------------|------|---------------------|-----|-------|----------|---------------------|-----|-------|----------|---------------------|-----|-------|----------|
| | | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear |
| Rex Sole | 2017 | - | - | 1.2 | 1.2 | - | - | 0.0 | 0.0 | - | - | 1.2 | 1.2 |
| | 2018 | - | - | 1.1 | 1.1 | - | - | 0.0 | 0.0 | - | - | 1.2 | 1.2 |
| | 2019 | - | - | 1.1 | 1.1 | - | - | 0.0 | 0.0 | - | - | 1.1 | 1.1 |
| | 2020 | - | - | 1.0 | 1.0 | - | - | 0.0 | 0.0 | - | - | 1.0 | 1.0 |
| | 2021 | - | - | 0.2 | 0.2 | * | - | 0.0 | 0.0 | * | - | 0.2 | 0.2 |
| Shallow-Water Flatfish | 2017 | - | - | 2.0 | 2.0 | * | - | 0.0 | 0.0 | * | - | 2.0 | 2.0 |
| | 2018 | - | - | 2.5 | 2.5 | * | - | 0.0 | 0.0 | * | - | 2.5 | 2.5 |
| | 2019 | - | - | 2.5 | 2.5 | - | - | 0.0 | 0.0 | - | - | 2.5 | 2.5 |
| | 2020 | * | - | 4.1 | 4.1 | - | - | 0.0 | 0.0 | * | - | 4.1 | 4.1 |
| | 2021 | * | - | 0.1 | 0.1 | - | - | 0.0 | 0.0 | * | - | 0.2 | 0.2 |
| Deep-Water Flatfish | 2017 | - | - | 0.1 | 0.1 | 0.0 | - | 0.0 | 0.0 | 0.0 | - | 0.1 | 0.1 |
| | 2018 | - | - | 0.1 | 0.1 | * | - | * | * | * | - | 0.1 | 0.1 |
| | 2019 | - | - | 0.0 | 0.0 | * | - | * | * | * | - | 0.0 | 0.0 |
| | 2020 | - | - | 0.1 | 0.1 | - | - | * | * | * | - | 0.1 | 0.1 |
| | 2021 | - | - | 0.0 | 0.0 | - | - | * | * | * | - | 0.0 | 0.0 |
| Pacific Ocean Perch | 2017 | 0.0 | - | 14.9 | 14.9 | * | - | 2.6 | 2.6 | 0.0 | - | 17.5 | 17.5 |
| | 2018 | 0.0 | - | 17.1 | 17.1 | - | - | 3.1 | 3.1 | 0.0 | - | 20.3 | 20.3 |
| | 2019 | * | - | 17.3 | 17.3 | * | - | 3.1 | 3.1 | * | - | 20.5 | 20.5 |
| | 2020 | - | - | 21.3 | 21.3 | - | - | 1.3 | 1.3 | * | - | 22.6 | 22.6 |
| | 2021 | * | - | 25.1 | 25.1 | * | - | 1.6 | 1.6 | * | - | 26.8 | 26.8 |
| Northern Rockfish | 2017 | 0.0 | - | 1.5 | 1.5 | 0.0 | - | 0.2 | 0.2 | 0.0 | - | 1.7 | 1.7 |
| | 2018 | * | - | 2.0 | 2.0 | * | - | 0.3 | 0.3 | * | - | 2.3 | 2.3 |
| | 2019 | - | - | 1.8 | 1.8 | * | - | 0.8 | 0.8 | * | - | 2.6 | 2.6 |
| | 2020 | * | - | 1.6 | 1.6 | - | - | 0.8 | 0.8 | * | - | 2.4 | 2.4 |
| | 2021 | - | - | 1.6 | 1.6 | - | - | 0.7 | 0.7 | - | - | 2.3 | 2.3 |
| Dusky Rockfish | 2017 | 0.0 | - | 2.3 | 2.3 | 0.0 | - | 0.1 | 0.1 | 0.0 | - | 2.4 | 2.4 |
| | 2018 | 0.0 | - | 2.8 | 2.8 | 0.0 | - | 0.0 | 0.0 | 0.0 | - | 2.8 | 2.8 |
| | 2019 | 0.0 | - | 2.0 | 2.0 | 0.0 | - | 0.2 | 0.2 | 0.0 | - | 2.2 | 2.2 |
| | 2020 | 0.0 | - | 1.8 | 1.8 | * | - | 0.2 | 0.2 | 0.0 | - | 2.1 | 2.1 |
| | 2021 | 0.0 | - | 2.6 | 2.6 | * | - | 0.1 | 0.1 | 0.0 | - | 2.8 | 2.8 |

Table 4.27: Gulf of Alaska groundfish retained catch by vessel type, gear, and species, 2017-2021 (1,000 metric tons, round weight).
(continued)

| | Year | Central Gulf | | | | Western Gulf | | | | All Gulf | | | |
|---------------------|------|---------------------|-----|-------|----------|---------------------|-----|-------|----------|---------------------|-----|-------|----------|
| | | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear |
| Other Rockfish | 2017 | 0.3 | - | 1.2 | 1.6 | 0.1 | - | 0.1 | 0.2 | 0.9 | - | 1.6 | 2.5 |
| | 2018 | 0.3 | - | 1.4 | 1.7 | 0.1 | - | 0.2 | 0.2 | 1.0 | - | 1.7 | 2.7 |
| | 2019 | 0.2 | - | 1.0 | 1.2 | 0.1 | - | 0.2 | 0.2 | 0.9 | - | 1.4 | 2.3 |
| | 2020 | 0.1 | - | 0.8 | 0.9 | 0.0 | - | 0.1 | 0.1 | 0.7 | - | 0.9 | 1.7 |
| | 2021 | 0.1 | - | 0.9 | 1.0 | 0.0 | - | 0.1 | 0.1 | 0.6 | - | 1.1 | 1.7 |
| Other Groundfish | 2017 | 0.1 | - | 0.8 | 1.0 | 0.2 | - | 0.0 | 0.2 | 0.3 | - | 0.8 | 1.3 |
| | 2018 | 0.0 | - | 0.8 | 0.9 | 0.0 | - | 0.0 | 0.1 | 0.1 | - | 0.8 | 1.0 |
| | 2019 | 0.1 | - | 0.9 | 1.1 | 0.0 | - | 0.0 | 0.1 | 0.1 | - | 0.9 | 1.3 |
| | 2020 | 0.0 | - | 0.8 | 0.8 | 0.0 | - | 0.0 | 0.0 | 0.0 | - | 0.8 | 0.8 |
| | 2021 | 0.1 | - | 0.1 | 0.2 | 0.0 | - | 0.0 | 0.0 | 0.1 | - | 0.1 | 0.2 |

Note The estimates are of retained catch (i.e., excludes discarded catch). All groundfish include additional species categories. These estimates include only catch counted against federal TACs. Includes FMP groundfish catch on halibut targets. "*" indicates a confidential value; "-" indicates no applicable data or value.

Source NMFS Alaska Region Blend and Catch-accounting System estimates. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.28: All Gulf of Alaska groundfish retained catch by species, gear, and target fishery, 2020-2021, (1,000 metric tons, round weight).

| Gear | Target | Pollock | Sablefish | Pacific Cod | Arrowtooth | Flathead Sole | Rex Sole | Flat Deep | Flat Shallow | Rockfish | Atka Mackerel | Other | All Species | | |
|----------------------|--------|-------------------|-----------|-------------|------------|---------------|----------|-----------|--------------|----------|---------------|-------|-------------|-------|------|
| Hook And Line | 2020 | Sablefish | * | 5.2 | 0.0 | * | - | - | * | - | 0.5 | - | * | 5.7 | |
| | | Pacific Cod | 0.0 | - | 0.9 | - | - | - | - | * | 0.0 | - | 0.0 | 0.9 | |
| | | Halibut | * | 0.4 | 0.1 | 0.0 | - | - | - | - | 0.2 | - | 0.0 | 0.7 | |
| | | Rockfish | - | * | 0.0 | - | - | - | - | - | 0.0 | - | - | 0.0 | |
| | | All Targets | 0.0 | 5.6 | 1.0 | 0.0 | - | - | * | * | 0.8 | - | 0.0 | 7.3 | |
| | 2021 | Sablefish | * | 3.7 | 0.0 | * | - | - | - | - | 0.3 | - | 0.0 | 4.0 | |
| | | Pacific Cod | 0.0 | 0.0 | 3.4 | * | - | - | - | - | 0.0 | - | 0.1 | 3.5 | |
| | | Halibut | * | 0.3 | 0.2 | 0.0 | - | * | * | - | 0.3 | - | 0.0 | 0.8 | |
| | | Rockfish | - | - | 0.0 | - | - | - | - | * | 0.0 | - | - | 0.0 | |
| | | All Targets | 0.0 | 4.0 | 3.6 | 0.0 | - | * | * | * | 0.6 | - | 0.1 | 8.3 | |
| Pot | 2020 | Pollock, Bottom | - | - | * | - | - | - | - | - | - | - | * | | |
| | | Sablefish | - | 4.6 | 0.0 | * | - | - | - | - | 0.0 | - | * | 4.6 | |
| | | Pacific Cod | 0.0 | - | 1.7 | - | - | - | - | - | - | - | 0.0 | 1.8 | |
| | | Halibut | - | 0.1 | * | - | - | - | - | - | 0.0 | - | * | 0.1 | |
| | | All Targets | 0.0 | 4.6 | 1.7 | * | - | - | - | - | 0.0 | - | 0.0 | 6.4 | |
| | 2021 | Sablefish | - | 9.8 | 0.0 | * | - | - | - | - | 0.0 | - | - | 9.8 | |
| | | Pacific Cod | 0.0 | * | 7.6 | - | * | - | - | * | * | - | 0.0 | 7.6 | |
| | | Halibut | - | 0.1 | * | - | - | - | - | - | 0.0 | - | - | 0.1 | |
| | | Rockfish | - | * | - | - | - | - | - | - | * | - | - | * | |
| | | All Targets | 0.0 | 9.8 | 7.6 | * | * | - | - | * | 0.0 | - | 0.0 | 17.5 | |
| Trawl | 2020 | Pollock, Bottom | 10.6 | 0.0 | 0.7 | 1.6 | 0.2 | 0.1 | 0.0 | 0.1 | 0.4 | * | 0.1 | 13.9 | |
| | | Pollock, Pelagic | 94.8 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 | * | 0.0 | 0.4 | * | 0.0 | 95.6 |
| | | Sablefish | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | * | - | 0.1 | - | 0.0 | 0.3 |
| | | Pacific Cod | * | * | 0.0 | * | * | - | * | * | * | - | * | 0.0 | |
| | | Arrowtooth | 0.6 | 0.2 | 0.8 | 16.5 | 1.3 | 0.7 | 0.0 | 0.7 | 0.9 | * | 0.6 | 22.3 | |
| | | Rex Sole | * | * | * | * | * | * | - | * | * | * | - | * | |
| | | Flatfish, Shallow | 0.0 | 0.0 | 0.3 | 0.3 | 0.1 | 0.0 | * | 1.3 | 0.0 | * | 0.1 | 2.1 | |
| | | Rockfish | 0.5 | 0.5 | 0.1 | 0.7 | 0.1 | 0.2 | 0.0 | 0.0 | 26.1 | 0.5 | 0.0 | 28.8 | |
| | | All Targets | 106.6 | 1.0 | 2.1 | 19.5 | 1.7 | 1.0 | 0.1 | 2.1 | 27.9 | 0.5 | 0.8 | 163.1 | |
| | 2021 | Pollock, Bottom | 24.0 | 0.0 | 2.7 | 0.4 | 0.0 | 0.0 | * | 0.1 | 0.5 | - | 0.1 | 27.9 | |
| | | Pollock, Pelagic | 72.2 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | * | 0.0 | 0.3 | 0.0 | 0.0 | 72.9 | |
| | | Sablefish | 0.0 | 0.3 | 0.0 | 0.0 | * | * | * | * | 0.0 | - | 0.0 | 0.3 | |
| | | Pacific Cod | 0.0 | 0.1 | 1.7 | * | 0.0 | * | - | 0.0 | * | * | * | 1.8 | |
| | | Arrowtooth | 0.0 | 0.1 | * | 5.0 | 0.1 | 0.1 | 0.0 | * | 0.7 | * | * | 6.1 | |
| | | Flathead Sole | * | - | - | * | * | * | - | * | - | - | - | * | |
| | | Flatfish, Shallow | * | * | * | * | * | * | * | * | * | * | * | * | |
| | | Rockfish | 1.2 | 0.6 | 0.2 | 2.0 | 0.1 | 0.1 | 0.0 | 0.0 | 31.3 | 0.6 | 0.0 | 36.1 | |
| | | All Targets | 97.4 | 1.0 | 4.8 | 7.7 | 0.3 | 0.2 | 0.0 | 0.1 | 32.9 | 0.6 | 0.1 | 145.2 | |

Table 4.28: All Gulf of Alaska groundfish retained catch by species, gear, and target fishery, 2020-2021, (1,000 metric tons, round weight).
(continued)

| Gear | | Target | Pollock | Sablefish | Pacific Cod | Arrowtooth Flathead Sole | Rex Sole | Flat Deep | Flat Shallow | Rockfish | Atka Mackerel | Other | All Species | |
|-------------|-------------|-------------|---------|-----------|----------------|-----------------------------|-------------|--------------|-----------------|----------|------------------|-------|----------------|-------|
| All | <i>2020</i> | All Targets | 106.6 | 11.2 | 4.8 | 19.5 | 1.7 | 1.0 | 0.1 | 2.1 | 28.6 | 0.5 | 0.8 | 176.8 |
| Gear | <i>2021</i> | All Targets | 97.4 | 14.9 | 16.0 | 7.7 | 0.3 | 0.2 | 0.0 | 0.1 | 33.5 | 0.6 | 0.2 | 171.0 |

Note Totals may include additional categories. The target is derived from an algorithm used to determine preponderance of catch, accounting for 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 Blend and Catch-accounting System estimates. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.29: Western Gulf of Alaska groundfish retained catch by species, gear, and target fishery, 2020-2021, (1,000 metric tons, round weight).

| Gear | Target | Pollock | Sablefish | Pacific Cod | Arrowtooth Flathead Sole | Rex Sole | Flat Deep | Flat Shallow | Rockfish | Atka Mackerel | Other | All Species | | |
|----------------------|-------------|------------------|-----------|-------------|--------------------------|----------|-----------|--------------|----------|---------------|-------|-------------|-----|------|
| Hook And Line | 2020 | Sablefish | - | 0.2 | * | * | - | - | - | 0.0 | - | - | 0.2 | |
| | | Pacific Cod | - | - | 0.2 | - | - | - | - | * | - | - | 0.2 | |
| | | Halibut | - | 0.0 | 0.0 | 0.0 | - | - | - | 0.0 | - | 0.0 | 0.0 | |
| | | All Targets | - | 0.2 | 0.2 | 0.0 | - | - | - | 0.0 | - | 0.0 | 0.4 | |
| | 2021 | Sablefish | - | 0.1 | * | - | - | - | - | 0.0 | - | - | 0.1 | |
| | | Pacific Cod | * | - | 0.3 | - | - | - | - | - | - | * | 0.3 | |
| | | Halibut | - | 0.0 | 0.0 | * | - | * | - | 0.0 | - | 0.0 | 0.0 | |
| | | All Targets | * | 0.1 | 0.3 | * | - | * | - | 0.0 | - | 0.0 | 0.5 | |
| Pot | 2020 | Pollock, Bottom | - | - | * | - | - | - | - | - | - | - | * | |
| | | Sablefish | - | 1.0 | 0.0 | - | - | - | - | 0.0 | - | * | 1.0 | |
| | | Pacific Cod | 0.0 | - | 0.7 | - | - | - | - | - | - | * | 0.7 | |
| | | Halibut | - | * | * | - | - | - | - | * | - | * | * | |
| | All Targets | 0.0 | 1.0 | 0.7 | - | - | - | - | 0.0 | - | * | 1.7 | | |
| | 2021 | Sablefish | - | 1.6 | * | - | - | - | - | 0.0 | - | - | 1.6 | |
| | | Pacific Cod | * | * | 3.2 | - | * | - | * | * | - | * | 3.2 | |
| | | Halibut | - | * | - | - | - | - | - | - | - | - | * | |
| All Targets | | * | 1.6 | 3.2 | - | * | - | * | 0.0 | - | * | 4.9 | | |
| Trawl | 2020 | Pollock, Bottom | 1.1 | * | 0.0 | 0.0 | 0.0 | * | - | 0.0 | * | - | 0.0 | 1.2 |
| | | Pollock, Pelagic | 17.7 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | - | 0.0 | 0.0 | * | 0.0 | 17.9 |
| | | Rockfish | 0.2 | 0.2 | 0.0 | 0.0 | 0.1 | 0.0 | * | 0.0 | 2.4 | 0.5 | * | 3.4 |
| | | All Targets | 19.0 | 0.2 | 0.1 | 0.2 | 0.1 | 0.0 | * | 0.0 | 2.4 | 0.5 | 0.0 | 22.5 |
| | 2021 | Pollock, Bottom | * | * | * | * | * | * | - | * | * | - | * | * |
| | | Pollock, Pelagic | 15.5 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | - | 0.0 | 0.0 | * | 0.0 | 15.6 |
| | | Pacific Cod | 0.0 | - | 1.6 | * | 0.0 | * | - | 0.0 | - | * | * | 1.6 |
| | | Rockfish | 0.2 | 0.1 | * | 0.0 | 0.1 | 0.0 | * | 0.0 | 2.5 | 0.3 | * | 3.3 |
| All Targets | 15.7 | 0.2 | 1.6 | 0.1 | 0.1 | 0.0 | * | 0.0 | 2.5 | 0.3 | 0.0 | 20.6 | | |
| All Gear | 2020 | All Targets | 19.0 | 1.4 | 1.1 | 0.2 | 0.1 | 0.0 | * | 0.0 | 2.4 | 0.5 | 0.0 | 24.6 |
| | 2021 | All Targets | 15.7 | 1.9 | 5.2 | 0.1 | 0.1 | 0.0 | * | 0.0 | 2.6 | 0.3 | 0.0 | 25.9 |

Note Totals may include additional categories. The target is derived from an algorithm used to determine preponderance of catch, accounting for 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 Blend and Catch-accounting System estimates. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.30: Central Gulf of Alaska groundfish retained catch by species, gear, and target fishery, 2020-2021, (1,000 metric tons, round weight).

| Gear | Target | Pollock | Sablefish | Pacific Cod | Arrowtooth | Flathead Sole | Rex Sole | Flat Deep | Flat Shallow | Rockfish | Atka Mackerel | Other | All Species | | |
|----------------------|--------------|-------------------|------------------|-------------|------------|---------------|----------|-----------|--------------|----------|---------------|-------|-------------|-------|------|
| Hook And Line | 2020 | Sablefish | - | 1.1 | 0.0 | * | - | - | - | 0.1 | - | * | 1.2 | | |
| | | Pacific Cod | 0.0 | - | 0.4 | - | - | - | * | 0.0 | - | * | 0.4 | | |
| | | Halibut | - | 0.1 | 0.1 | - | - | - | - | - | 0.0 | - | 0.0 | 0.2 | |
| | | Rockfish | - | - | 0.0 | - | - | - | - | - | 0.0 | - | - | 0.0 | |
| | | All Targets | 0.0 | 1.2 | 0.4 | * | - | - | - | * | 0.1 | - | 0.0 | 1.8 | |
| | 2021 | Sablefish | * | 0.5 | 0.0 | * | - | - | - | - | 0.0 | - | * | 0.5 | |
| | | Pacific Cod | 0.0 | 0.0 | 2.8 | * | - | - | - | - | 0.0 | - | 0.1 | 2.9 | |
| | | Halibut | * | 0.1 | 0.1 | 0.0 | - | - | - | - | 0.1 | - | 0.0 | 0.2 | |
| | | Rockfish | - | - | 0.0 | - | - | - | - | * | 0.0 | - | - | 0.0 | |
| | | All Targets | 0.0 | 0.6 | 2.9 | 0.0 | - | - | - | * | 0.1 | - | 0.1 | 3.6 | |
| Pot | 2020 | Sablefish | - | 2.5 | 0.0 | * | - | - | - | 0.0 | - | * | 2.5 | | |
| | | Pacific Cod | * | - | 1.0 | - | - | - | - | - | - | - | 0.0 | 1.0 | |
| | | Halibut | - | 0.0 | * | - | - | - | - | - | 0.0 | - | - | 0.0 | |
| | | All Targets | * | 2.5 | 1.0 | * | - | - | - | - | 0.0 | - | 0.0 | 3.5 | |
| | 2021 | Sablefish | - | 5.1 | 0.0 | * | - | - | - | - | 0.0 | - | - | 5.2 | |
| | | Pacific Cod | 0.0 | - | 4.4 | - | - | - | - | - | * | - | 0.0 | 4.4 | |
| | | Halibut | - | 0.0 | * | - | - | - | - | - | * | - | - | 0.0 | |
| | | All Targets | 0.0 | 5.2 | 4.4 | * | - | - | - | - | 0.0 | - | 0.0 | 9.6 | |
| | Trawl | 2020 | Pollock, Bottom | 9.5 | 0.0 | 0.7 | 1.6 | 0.2 | 0.1 | 0.0 | 0.1 | 0.4 | * | 0.1 | 12.7 |
| | | | Pollock, Pelagic | 69.7 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | * | 0.0 | 0.3 | * | 0.0 | 70.3 |
| Sablefish | | | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | * | - | 0.1 | - | 0.0 | 0.3 | |
| Pacific Cod | | | * | * | 0.0 | * | * | - | * | * | * | - | * | 0.0 | |
| Arrowtooth | | | 0.6 | 0.2 | 0.8 | 16.5 | 1.3 | 0.7 | 0.0 | 0.7 | 0.9 | * | 0.6 | 22.3 | |
| Rex Sole | | | * | * | * | * | * | * | - | * | * | * | - | * | |
| Flatfish, Shallow | | | 0.0 | 0.0 | 0.3 | 0.3 | 0.1 | 0.0 | * | 1.3 | 0.0 | * | 0.1 | 2.1 | |
| Rockfish | | | 0.4 | 0.4 | 0.1 | 0.7 | 0.0 | 0.1 | 0.0 | 0.0 | 23.7 | * | 0.0 | 25.5 | |
| All Targets | | | 80.2 | 0.8 | 2.0 | 19.3 | 1.6 | 0.9 | 0.1 | 2.1 | 25.4 | * | 0.8 | 133.1 | |
| 2021 | | Pollock, Bottom | 22.6 | 0.0 | 2.7 | 0.4 | 0.0 | 0.0 | * | 0.1 | 0.5 | - | 0.1 | 26.5 | |
| | | Pollock, Pelagic | 51.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | * | 0.0 | 0.3 | 0.0 | 0.0 | 51.5 | |
| | | Sablefish | 0.0 | 0.3 | 0.0 | 0.0 | * | * | * | * | 0.0 | - | 0.0 | 0.3 | |
| | | Pacific Cod | * | 0.1 | 0.1 | * | - | - | - | * | * | - | * | 0.2 | |
| | | Arrowtooth | 0.0 | 0.1 | * | 5.0 | 0.1 | 0.1 | 0.0 | * | 0.7 | * | * | 6.1 | |
| | | Flathead Sole | * | - | - | * | * | * | - | * | - | - | - | * | |
| | | Flatfish, Shallow | * | * | * | * | * | * | * | * | * | * | * | * | |
| | | Rockfish | 0.9 | 0.5 | 0.2 | 2.0 | 0.0 | 0.1 | 0.0 | 0.0 | 28.8 | 0.2 | 0.0 | 32.8 | |
| | | All Targets | 74.6 | 0.9 | 3.2 | 7.5 | 0.2 | 0.2 | 0.0 | 0.1 | 30.3 | 0.2 | 0.1 | 117.4 | |
| 2020 | All Targets | 80.2 | 4.5 | 3.4 | 19.3 | 1.6 | 0.9 | 0.1 | 2.1 | 25.6 | * | 0.8 | 138.5 | | |

Table 4.30: Central Gulf of Alaska groundfish retained catch by species, gear, and target fishery, 2020-2021, (1,000 metric tons, round weight). *(continued)*

| Gear | Target | Pollock | Sablefish | Pacific Cod | Arrowtooth Flathead Sole | Rex Sole | Flat Deep | Flat Shallow | Rockfish | Atka Mackerel | Other | All Species |
|------------------|-------------|---------|-----------|----------------|-----------------------------|-------------|--------------|-----------------|----------|------------------|-------|----------------|
| All | | | | | | | | | | | | |
| Gear 2021 | All Targets | 74.6 | 6.6 | 10.4 | 7.5 | 0.2 | 0.0 | 0.1 | 30.4 | 0.2 | 0.2 | 130.6 |

Note Totals may include additional categories. The target is derived from an algorithm used to determine preponderance of catch, accounting for 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 Blend and Catch-accounting System estimates. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.31: Gulf of Alaska ex-vessel prices in the groundfish fisheries by gear, and species, 2017-2021; calculations based on COAR (\$/lb, round weight).

| | Year | Fixed | Trawl | All Gear |
|---------------------------|------|-------|-------|----------|
| Pollock | 2017 | 0.09 | 0.09 | 0.09 |
| | 2018 | 0.04 | 0.12 | 0.12 |
| | 2019 | 0.12 | 0.14 | 0.14 |
| | 2020 | 0.03 | 0.12 | 0.12 |
| | 2021 | 0.08 | 0.12 | 0.12 |
| Pacific Cod | 2017 | 0.34 | 0.33 | 0.33 |
| | 2018 | 0.46 | 0.41 | 0.45 |
| | 2019 | 0.50 | 0.46 | 0.49 |
| | 2020 | 0.42 | 0.36 | 0.39 |
| | 2021 | 0.41 | 0.35 | 0.39 |
| Sablefish | 2017 | 5.32 | 3.93 | 5.18 |
| | 2018 | 3.93 | 2.34 | 3.78 |
| | 2019 | 2.99 | 1.31 | 2.81 |
| | 2020 | 1.95 | 0.69 | 1.83 |
| | 2021 | 2.28 | 1.21 | 2.20 |
| Atka Mackerel | 2017 | 0.02 | 0.39 | 0.39 |
| | 2018 | * | 0.36 | 0.36 |
| | 2019 | - | 0.29 | 0.29 |
| | 2020 | - | 0.27 | 0.27 |
| | 2021 | - | 0.30 | 0.30 |
| Arrowtooth | 2017 | 0.09 | 0.12 | 0.12 |
| | 2018 | 0.24 | 0.13 | 0.13 |
| | 2019 | 0.06 | 0.10 | 0.10 |
| | 2020 | 0.02 | 0.09 | 0.09 |
| | 2021 | 0.25 | 0.07 | 0.07 |
| Flathead Sole | 2017 | * | 0.12 | 0.12 |
| | 2018 | 0.24 | 0.13 | 0.13 |
| | 2019 | * | 0.10 | 0.10 |
| | 2020 | - | 0.09 | 0.09 |
| | 2021 | * | 0.07 | 0.07 |
| Rex Sole | 2017 | - | 0.12 | 0.12 |
| | 2018 | - | 0.13 | 0.13 |
| | 2019 | - | 0.10 | 0.10 |
| | 2020 | - | 0.09 | 0.09 |
| | 2021 | * | 0.07 | 0.07 |
| Shallow-Water Flatfish | 2017 | 0.09 | 0.12 | 0.12 |
| | 2018 | 0.24 | 0.13 | 0.13 |
| | 2019 | - | 0.10 | 0.10 |
| | 2020 | * | 0.09 | 0.09 |
| | 2021 | * | 0.07 | 0.07 |
| Deep-Water Flatfish | 2017 | 0.09 | 0.12 | 0.12 |
| | 2018 | * | 0.13 | 0.13 |
| | 2019 | * | 0.10 | 0.10 |
| | 2020 | * | 0.09 | 0.09 |
| | 2021 | * | 0.07 | 0.07 |

Table 4.31: Gulf of Alaska ex-vessel prices in the groundfish fisheries by gear, and species, 2017-2021; calculations based on COAR (\$/lb, round weight). *(continued)*

| | Year | Fixed | Trawl | All Gear |
|---------------------------|------|-------|-------|----------|
| Pacific Ocean Perch | 2017 | 0.82 | 0.18 | 0.18 |
| | 2018 | 0.87 | 0.19 | 0.19 |
| | 2019 | 0.75 | 0.19 | 0.19 |
| | 2020 | * | 0.13 | 0.13 |
| | 2021 | 0.59 | 0.13 | 0.13 |
| Northern Rockfish | 2017 | 0.85 | 0.18 | 0.18 |
| | 2018 | 0.72 | 0.19 | 0.19 |
| | 2019 | * | 0.19 | 0.19 |
| | 2020 | * | 0.13 | 0.13 |
| | 2021 | - | 0.13 | 0.13 |
| Dusky Rockfish | 2017 | 0.81 | 0.18 | 0.19 |
| | 2018 | 0.84 | 0.19 | 0.19 |
| | 2019 | 0.77 | 0.19 | 0.20 |
| | 2020 | 0.65 | 0.13 | 0.13 |
| | 2021 | 0.59 | 0.13 | 0.13 |
| Other Rockfish | 2017 | 0.80 | 0.18 | 0.41 |
| | 2018 | 0.86 | 0.19 | 0.43 |
| | 2019 | 0.78 | 0.19 | 0.43 |
| | 2020 | 0.65 | 0.13 | 0.35 |
| | 2021 | 0.59 | 0.13 | 0.29 |

Note Prices are for catch from both federal and state of Alaska fisheries. The unfrozen landings price is calculated as landed value divided by estimated or actual round weight. Prices for catch processed by an at-sea processor without a COAR buying record (e.g., from catcher processors) are set using the prices for the matching species (group), region and gear-types for which buying records exist. Trawl-caught sablefish, rockfish and flatfish in the GOA and trawl-caught Atka mackerel in both the GOA and the GOA are not well represented in the COAR buying records. A price was calculated for these categories from product-report prices; the price in this case is the value of the first wholesale products divided by the calculated round weight and multiplied by a constant 0.4 to correct for value added by processing. The "All Alaska/All gear" column is the average weighted by retained catch. Values are not adjusted for inflation. '*' indicates a confidential value; '-' indicates no applicable data or value.

Source NMFS Alaska Region Blend and Catch-accounting System estimates; NMFS Alaska Region At-sea Production Reports; and ADF&G Commercial Operators Annual Reports (COAR). Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.32: Gulf of Alaska ex-vessel value of the groundfish catch by vessel category, gear, and species, 2017-2021; calculations based on COAR (\$ millions).

| | Year | Central Gulf | | | | Western Gulf | | | | All Gulf | | | |
|------------------|------|---------------------|-------|-------|-------------|---------------------|-------|-------|-------------|---------------------|-------|-------|-------------|
| | | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear |
| Pollock | 2017 | - | - | 25.45 | 25.47 | - | - | 9.41 | 9.42 | - | - | 35.23 | 35.25 |
| | 2018 | - | - | 32.03 | 32.04 | - | - | 8.28 | 8.28 | - | - | 42.24 | 42.25 |
| | 2019 | - | - | 26.68 | 26.68 | - | - | 6.59 | 6.59 | - | - | 36.12 | 36.12 |
| | 2020 | - | - | 20.92 | 20.92 | - | - | 4.94 | 4.94 | - | - | 27.80 | 27.80 |
| | 2021 | - | - | 20.50 | 20.50 | - | - | 4.83 | 4.83 | - | - | 27.32 | 27.32 |
| Pacific Cod | 2017 | 2.82 | 8.41 | 3.86 | 15.09 | 3.15 | 11.16 | 5.49 | 19.80 | 6.31 | 19.57 | 9.35 | 35.23 |
| | 2018 | 1.55 | 3.16 | 1.93 | 6.63 | 1.34 | 4.59 | 1.33 | 7.25 | 3.29 | 7.74 | 3.26 | 14.29 |
| | 2019 | 1.69 | 3.60 | 2.18 | 7.46 | 1.36 | 4.84 | 1.59 | 7.79 | 3.54 | 8.44 | 3.77 | 15.74 |
| | 2020 | 0.39 | 0.95 | 1.74 | 3.08 | 0.18 | 0.71 | 0.11 | 1.00 | 0.91 | 1.66 | 1.85 | 4.42 |
| | 2021 | 3.02 | 3.94 | 2.55 | 9.51 | 1.25 | 2.92 | 1.36 | 5.52 | 4.58 | 6.86 | 3.91 | 15.35 |
| Sablefish | 2017 | 35.44 | 5.18 | 6.28 | 46.90 | 9.30 | 2.63 | 0.57 | 12.50 | 95.64 | 10.98 | 8.50 | 115.12 |
| | 2018 | 24.81 | 4.72 | 3.07 | 32.60 | 6.24 | 3.10 | 0.81 | 10.14 | 72.75 | 10.03 | 5.02 | 87.80 |
| | 2019 | 16.49 | 7.18 | 2.17 | 25.84 | 4.77 | 2.60 | 0.76 | 8.12 | 51.81 | 12.67 | 3.29 | 67.78 |
| | 2020 | 5.31 | 10.88 | 1.29 | 17.48 | 0.76 | 4.51 | 0.25 | 5.52 | 23.98 | 20.24 | 1.54 | 45.76 |
| | 2021 | 2.86 | 26.07 | 2.36 | 31.29 | 0.63 | 8.07 | 0.40 | 9.10 | 21.54 | 49.63 | 3.06 | 74.23 |
| Atka Mackerel | 2017 | - | - | 0.18 | 0.18 | - | - | 0.41 | 0.41 | - | - | 0.59 | 0.59 |
| | 2018 | - | - | 0.56 | 0.56 | - | - | 0.53 | 0.53 | - | - | 1.09 | 1.09 |
| | 2019 | - | - | 0.31 | 0.31 | - | - | 0.42 | 0.42 | - | - | 0.73 | 0.73 |
| | 2020 | - | - | 0.0 | 0.0 | - | - | 0.30 | 0.30 | - | - | 0.30 | 0.30 |
| | 2021 | - | - | 0.33 | 0.33 | - | - | 0.23 | 0.23 | - | - | 0.56 | 0.56 |
| Arrowtooth | 2017 | 0.0 | - | 6.48 | 6.48 | 0.01 | - | 0.03 | 0.04 | 0.01 | - | 6.51 | 6.52 |
| | 2018 | 0.0 | - | 4.57 | 4.57 | 0.0 | - | 0.26 | 0.27 | 0.01 | - | 4.83 | 4.84 |
| | 2019 | 0.0 | - | 4.97 | 4.97 | 0.0 | - | 0.10 | 0.10 | 0.0 | - | 5.09 | 5.09 |
| | 2020 | * | - | 3.73 | 3.73 | 0.0 | - | 0.04 | 0.04 | 0.0 | - | 3.77 | 3.77 |
| | 2021 | 0.0 | - | 1.19 | 1.19 | * | - | 0.04 | 0.04 | 0.0 | - | 1.24 | 1.24 |
| Flathead Sole | 2017 | - | - | 0.49 | 0.49 | - | - | 0.01 | 0.01 | - | - | 0.50 | 0.50 |
| | 2018 | - | - | 0.56 | 0.56 | - | - | 0.04 | 0.04 | - | - | 0.60 | 0.60 |
| | 2019 | - | - | 0.53 | 0.53 | * | - | 0.03 | 0.03 | * | - | 0.55 | 0.55 |
| | 2020 | - | - | 0.34 | 0.34 | - | - | 0.02 | 0.02 | - | - | 0.35 | 0.35 |
| | 2021 | - | - | 0.07 | 0.07 | - | - | 0.01 | 0.01 | - | - | 0.09 | 0.09 |

Table 4.32: Gulf of Alaska ex-vessel value of the groundfish catch by vessel category, gear, and species, 2017-2021; calculations based on COAR (\$ millions). (continued)

| | Year | Central Gulf | | | | Western Gulf | | | | All Gulf | | | |
|---------------------------|------|---------------------|-----|-------|-------------|---------------------|-----|-------|-------------|---------------------|-----|-------|-------------|
| | | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear |
| Rex Sole | 2017 | - | - | 0.36 | 0.36 | - | - | 0.01 | 0.01 | - | - | 0.37 | 0.37 |
| | 2018 | - | - | 0.45 | 0.45 | - | - | 0.02 | 0.02 | - | - | 0.47 | 0.47 |
| | 2019 | - | - | 0.33 | 0.33 | - | - | 0.01 | 0.01 | - | - | 0.34 | 0.34 |
| | 2020 | - | - | 0.22 | 0.22 | - | - | 0.01 | 0.01 | - | - | 0.22 | 0.22 |
| | 2021 | - | - | 0.04 | 0.04 | * | - | 0.0 | 0.0 | * | - | 0.04 | 0.04 |
| Shallow-Water Flatfish | 2017 | - | - | 0.53 | 0.53 | * | - | 0.0 | 0.0 | * | - | 0.54 | 0.54 |
| | 2018 | - | - | 0.70 | 0.70 | * | - | 0.01 | 0.01 | * | - | 0.71 | 0.71 |
| | 2019 | - | - | 0.55 | 0.55 | - | - | 0.01 | 0.01 | - | - | 0.56 | 0.56 |
| | 2020 | * | - | 0.79 | 0.79 | - | - | 0.0 | 0.0 | * | - | 0.79 | 0.79 |
| | 2021 | * | - | 0.22 | 0.22 | - | - | 0.0 | 0.0 | * | - | 0.22 | 0.22 |
| Deep-Water Flatfish | 2017 | - | - | 0.02 | 0.02 | 0.0 | - | 0.0 | 0.0 | 0.0 | - | 0.02 | 0.02 |
| | 2018 | - | - | 0.02 | 0.02 | * | - | 0.0 | 0.0 | * | - | 0.02 | 0.02 |
| | 2019 | - | - | 0.01 | 0.01 | * | - | 0.0 | 0.0 | * | - | 0.01 | 0.01 |
| | 2020 | - | - | 0.01 | 0.01 | - | - | * | * | * | - | 0.01 | 0.01 |
| | 2021 | - | - | 0.0 | 0.0 | - | - | * | * | * | - | 0.0 | 0.0 |
| Pacific Ocean Perch | 2017 | 0.0 | - | 5.90 | 5.90 | * | - | 1.03 | 1.03 | 0.0 | - | 8.01 | 8.01 |
| | 2018 | 0.0 | - | 7.19 | 7.19 | - | - | 1.33 | 1.33 | 0.0 | - | 9.90 | 9.90 |
| | 2019 | * | - | 7.44 | 7.44 | * | - | 1.32 | 1.32 | * | - | 10.09 | 10.09 |
| | 2020 | - | - | 6.01 | 6.01 | - | - | 0.37 | 0.37 | * | - | 6.79 | 6.79 |
| | 2021 | * | - | 7.12 | 7.12 | * | - | 0.45 | 0.45 | * | - | 8.04 | 8.04 |
| Northern Rockfish | 2017 | 0.0 | - | 0.59 | 0.59 | 0.0 | - | 0.08 | 0.08 | 0.0 | - | 0.66 | 0.67 |
| | 2018 | 0.0 | - | 0.84 | 0.84 | * | - | 0.12 | 0.12 | 0.0 | - | 0.95 | 0.96 |
| | 2019 | - | - | 0.77 | 0.77 | * | - | 0.34 | 0.34 | * | - | 1.11 | 1.11 |
| | 2020 | * | - | 0.45 | 0.45 | - | - | 0.21 | 0.21 | * | - | 0.66 | 0.66 |
| | 2021 | - | - | 0.46 | 0.46 | - | - | 0.20 | 0.20 | - | - | 0.66 | 0.66 |
| Dusky Rockfish | 2017 | 0.03 | - | 0.90 | 0.94 | 0.02 | - | 0.03 | 0.05 | 0.06 | - | 0.93 | 0.99 |
| | 2018 | 0.02 | - | 1.16 | 1.18 | 0.0 | - | 0.02 | 0.02 | 0.03 | - | 1.19 | 1.22 |
| | 2019 | 0.03 | - | 0.87 | 0.90 | 0.01 | - | 0.08 | 0.09 | 0.03 | - | 0.95 | 0.99 |
| | 2020 | 0.01 | - | 0.52 | 0.53 | * | - | 0.06 | 0.06 | 0.01 | - | 0.58 | 0.59 |
| | 2021 | 0.01 | - | 0.75 | 0.76 | * | - | 0.04 | 0.04 | 0.01 | - | 0.80 | 0.81 |

Table 4.32: Gulf of Alaska ex-vessel value of the groundfish catch by vessel category, gear, and species, 2017-2021; calculations based on COAR (\$ millions). (continued)

| | Year | Central Gulf | | | | Western Gulf | | | | All Gulf | | | |
|---------------------|------|---------------------|-----|-------|-------------|---------------------|-----|-------|-------------|---------------------|-----|-------|-------------|
| | | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear | Hook And Line | Pot | Trawl | All Gear |
| Other Rockfish | 2017 | 0.54 | - | 0.49 | 1.03 | 0.18 | - | 0.05 | 0.22 | 1.66 | - | 0.62 | 2.29 |
| | 2018 | 0.56 | - | 0.60 | 1.17 | 0.14 | - | 0.07 | 0.21 | 1.88 | - | 0.75 | 2.64 |
| | 2019 | 0.39 | - | 0.44 | 0.83 | 0.11 | - | 0.07 | 0.17 | 1.61 | - | 0.61 | 2.24 |
| | 2020 | 0.16 | - | 0.22 | 0.39 | 0.02 | - | 0.03 | 0.05 | 1.06 | - | 0.29 | 1.39 |
| | 2021 | 0.12 | - | 0.27 | 0.40 | 0.01 | - | 0.03 | 0.04 | 0.80 | - | 0.35 | 1.19 |
| Other Groundfish | 2017 | 0.10 | - | 0.83 | 1.05 | 0.14 | - | 0.02 | 0.23 | 0.27 | - | 0.85 | 1.31 |
| | 2018 | 0.04 | - | 0.76 | 0.86 | 0.04 | - | 0.05 | 0.16 | 0.11 | - | 0.81 | 1.05 |
| | 2019 | 0.07 | - | 0.95 | 1.13 | 0.02 | - | 0.02 | 0.14 | 0.11 | - | 0.98 | 1.30 |
| | 2020 | 0.01 | - | 0.78 | 0.79 | 0.0 | - | 0.01 | 0.01 | 0.02 | - | 0.78 | 0.81 |
| | 2021 | 0.09 | - | 0.08 | 0.18 | 0.03 | - | 0.0 | 0.03 | 0.13 | - | 0.08 | 0.23 |

Note Ex-vessel value is calculated by multiplying ex-vessel prices by the retained round weight catch. Refer to Table 18 for a description of the price derivation. "The value added by at-sea processing is not included in these estimates of ex-vessel value. All groundfish includes additional species categories. Values are not adjusted for inflation. "*" indicates a confidential value; "-" indicates no applicable data or value.

Source NMFS Alaska Region Blend and Catch-accounting System estimates; NMFS Alaska Region At-sea Production Reports; and ADF&G Commercial Operators Annual Reports (COAR). Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.33: Gulf of Alaska vessel and permit counts, ex-vessel value, value per vessel, and percent value of GOA FMP groundfish and all GOA fisheries by processor group, 2017-2021; calculations based on COAR (\$ millions).

| | Year | Vessels | Permits | Ex-vessel Value per Vessel \$1,000 | Ex-vessel Value \$million | Percent Value, GOA FMP Groundfish | Percent Value, All GOA Fisheries |
|-----------------------|------|---------|---------|---|---------------------------------|--|---|
| Western Gulf Trawl | 2017 | 42 | 15 | 17.13 | 407.92 | 8.54 | 2.27 |
| | 2018 | 36 | 12 | 12.85 | 356.82 | 7.94 | 2.33 |
| | 2019 | 35 | 10 | 11.33 | 323.73 | 8.21 | 1.92 |
| | 2020 | 33 | 10 | 6.34 | 191.99 | 6.93 | 1.79 |
| | 2021 | 33 | 11 | 7.61 | 230.58 | 5.97 | 1.13 |
| Central Gulf Trawl | 2017 | 58 | 13 | 52.37 | 903.01 | 26.11 | 6.94 |
| | 2018 | 61 | 14 | 54.45 | 892.62 | 33.66 | 9.88 |
| | 2019 | 62 | 16 | 48.20 | 777.38 | 34.94 | 8.17 |
| | 2020 | 62 | 15 | 37.01 | 596.99 | 40.49 | 10.47 |
| | 2021 | 52 | 13 | 35.94 | 691.14 | 28.20 | 5.34 |
| CV Hook and Line | 2017 | 85 | 34 | 2.98 | 35.05 | 1.49 | 0.39 |
| | 2018 | 69 | 27 | 2.62 | 37.98 | 1.62 | 0.48 |
| | 2019 | 72 | 31 | 2.26 | 31.34 | 1.64 | 0.38 |
| | 2020 | 28 | 19 | 0.56 | 20.08 | 0.62 | 0.16 |
| | 2021 | 59 | 21 | 2.50 | 42.32 | 1.96 | 0.37 |
| CP Hook and Line | 2017 | 9 | 9 | 4.31 | 478.94 | 2.15 | 0.57 |
| | 2018 | 3 | 3 | 1.38 | 458.47 | 0.85 | 0.25 |
| | 2019 | 3 | 3 | 1.66 | 552.90 | 1.20 | 0.28 |
| | 2021 | 2 | 2 | * | * | * | * |
| Sablefish IFQ | 2017 | 261 | 40 | 100.71 | 385.87 | 50.20 | 13.34 |
| | 2018 | 262 | 39 | 77.72 | 296.63 | 48.04 | 14.10 |
| | 2019 | 250 | 42 | 60.52 | 242.09 | 43.88 | 10.26 |
| | 2020 | 242 | 44 | 42.60 | 176.04 | 46.60 | 12.05 |
| | 2021 | 238 | 41 | 68.92 | 289.57 | 54.07 | 10.23 |
| Pot | 2017 | 110 | 26 | 19.77 | 179.75 | 9.86 | 2.62 |
| | 2018 | 58 | 21 | 7.87 | 135.68 | 4.86 | 1.43 |
| | 2019 | 59 | 16 | 8.65 | 146.60 | 6.27 | 1.47 |
| | 2020 | 38 | 17 | 1.87 | 49.20 | 2.05 | 0.53 |
| | 2021 | 70 | 23 | 7.25 | 103.59 | 5.69 | 1.08 |
| Jig | 2017 | 105 | 33 | 0.15 | 1.44 | 0.08 | 0.02 |
| | 2018 | 98 | 37 | 0.36 | 3.68 | 0.22 | 0.07 |
| | 2019 | 110 | 40 | 0.62 | 5.68 | 0.45 | 0.11 |
| | 2020 | 97 | 45 | 0.49 | 5.09 | 0.54 | 0.14 |
| | 2021 | 100 | 39 | 1.04 | 10.37 | 0.81 | 0.15 |

Note 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. The data are for catch from both federal and state of Alaska fisheries. The column 'permits' is a count of federal groundfish processor permits. Values are not adjusted for inflation.

Source ADF&G Commercial Operators Annual Reports (COAR); and ADF&G Intent to Operate (ITO) file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.34: Gulf of Alaska production of groundfish products by species, 2017-2021 (1,000 metric tons, round weight).

| | Product | 2017 | 2018 | 2019 | 2020 | 2021 |
|------------------|-------------------|------------|-------|-------|-------|-------|
| Pollock | Whole Fish | 9.34 | 0.56 | 3.12 | 0.42 | 0.33 |
| | Head And Gut | 37.39 | 39.83 | 28.41 | 22.62 | 14.02 |
| | Roe | 1.09 | 2.39 | 1.89 | 1.55 | 1.03 |
| | Deep-Skin Fillets | 0.63 | * | * | 0.23 | * |
| | Other Fillets | 15.09 | 13.08 | 8.80 | 7.60 | 8.65 |
| | Surimi | 10.61 | 9.77 | 6.95 | 5.43 | 5.93 |
| | Minced Fish | 1.44 | 0.98 | 0.84 | 1.80 | 0.76 |
| | Fishmeal | * | 1.11 | * | * | 0.50 |
| | Other Products | 2.46 | 1.34 | 1.07 | 0.30 | 0.42 |
| | All Products | 78.06 | 69.06 | 51.09 | 39.95 | 31.64 |
| | Pacific Cod | Whole Fish | 0.14 | 0.25 | 0.26 | 0.03 |
| Head And Gut | | 6.11 | 1.92 | 3.02 | 1.15 | 1.69 |
| Salted/Split Roe | | - | - | - | * | - |
| Fillets | | 1.04 | 0.37 | 0.38 | 0.19 | 0.53 |
| Other Products | | 6.52 | 2.00 | 2.37 | 1.12 | 2.70 |
| All Products | | 3.58 | 1.04 | 1.44 | 0.47 | 1.56 |
| | | 17.39 | 5.58 | 7.47 | 2.97 | 6.54 |
| Sablefish | Head And Gut | 5.28 | 5.84 | 6.54 | 6.44 | 8.85 |
| | Other Products | 0.36 | 0.29 | 0.43 | 0.35 | 0.60 |
| | All Products | 5.64 | 6.13 | 6.97 | 6.78 | 9.45 |
| | | | | | | |
| Atka Mackerel | Whole Fish | * | 0.08 | - | - | - |
| | Head And Gut | 0.37 | 0.73 | 0.63 | 0.25 | 0.47 |
| | Other Products | * | * | * | * | * |
| | All Products | 0.37 | 0.81 | 0.63 | 0.25 | 0.47 |
| Arrowtooth | Whole Fish | 3.22 | 2.28 | 2.04 | 1.97 | - |
| | Head And Gut | 11.28 | 6.24 | 8.97 | 7.31 | 4.28 |
| | Kirimi | - | - | - | * | - |
| | Fillets | * | * | * | - | - |
| | Other Products | * | 0.01 | * | * | * |
| | All Products | 14.50 | 8.53 | 11.01 | 9.28 | 4.28 |
| Flathead Sole | Whole Fish | 0.45 | 1.02 | 1.09 | 1.09 | - |
| | Head And Gut | 0.46 | 0.28 | 0.27 | 0.20 | 0.20 |
| | Kirimi | * | * | * | * | - |
| | Fillets | * | * | * | * | - |
| | Other Products | * | * | * | * | * |
| | All Products | 0.91 | 1.29 | 1.35 | 1.29 | 0.20 |
| | | | | | | |

Table 4.34: Gulf of Alaska production of groundfish products by species, 2017-2021 (1,000 metric tons, round weight). *(continued)*

| | Product | 2017 | 2018 | 2019 | 2020 | 2021 | |
|------------------------|---------------------|--------------|-------|-------|-------|-------|------|
| Rex Sole | Whole Fish | 1.27 | 1.55 | 1.44 | 1.04 | 0.21 | |
| | Head And Gut | 0.01 | 0.04 | 0.01 | * | 0.00 | |
| | Kirimi | - | * | - | - | - | |
| | Fillets | 0.00 | * | * | * | * | |
| | Other | * | * | * | * | * | |
| | Products | | | | | | |
| | All Products | 1.28 | 1.59 | 1.46 | 1.04 | 0.21 | |
| Shallow-Water Flatfish | Whole Fish | 0.89 | 0.82 | 0.91 | 1.52 | - | |
| | Head And Gut | 0.21 | 0.58 | 0.43 | 1.00 | 0.69 | |
| | Kirimi | * | * | * | * | * | |
| | Fillets | * | * | * | * | - | |
| | Other | * | * | * | * | * | |
| | Products | | | | | | |
| | All Products | 1.11 | 1.40 | 1.33 | 2.51 | 0.69 | |
| Deep-Water Flatfish | Whole Fish | * | 0.00 | * | * | - | |
| | Head And Gut | * | 0.01 | * | * | - | |
| | Fillets | * | * | * | * | - | |
| | Other | * | - | - | - | - | |
| | Products | | | | | | |
| | All Products | * | 0.02 | * | * | - | |
| | Pacific Ocean Perch | Whole Fish | 2.71 | 3.38 | 2.75 | 4.87 | 2.88 |
| Head And Gut | | 8.19 | 10.26 | 10.00 | 9.26 | 12.07 | |
| Other | | 0.16 | 0.09 | 0.25 | 0.16 | 0.35 | |
| Products | | | | | | | |
| All Products | | 11.06 | 13.73 | 13.01 | 14.29 | 15.31 | |
| Northern Rockfish | | Whole Fish | 0.00 | 0.01 | * | * | * |
| | | Head And Gut | 0.83 | 1.23 | 1.39 | 1.26 | 1.21 |
| | Other | 0.01 | 0.00 | 0.00 | 0.00 | * | |
| | Products | | | | | | |
| | All Products | 0.84 | 1.25 | 1.39 | 1.26 | 1.21 | |
| | Dusky Rockfish | Whole Fish | 0.28 | 0.06 | 0.14 | 0.32 | 0.25 |
| | | Head And Gut | 0.97 | 1.42 | 1.17 | 0.88 | 1.32 |
| Other | | 0.07 | 0.02 | 0.01 | 0.02 | 0.02 | |
| Products | | | | | | | |
| All Products | | 1.31 | 1.50 | 1.32 | 1.22 | 1.59 | |
| Other Rockfish | | Whole Fish | 0.54 | 0.62 | 0.45 | 0.31 | 0.27 |
| | | Head And Gut | 0.68 | 0.76 | 0.59 | 0.44 | 0.46 |
| | Other | 0.13 | 0.09 | 0.10 | 0.10 | 0.07 | |
| | Products | | | | | | |
| | All Products | 1.34 | 1.46 | 1.14 | 0.84 | 0.80 | |

Table 4.34: Gulf of Alaska production of groundfish products by species, 2017-2021 (1,000 metric tons, round weight). (continued)

| | Product | 2017 | 2018 | 2019 | 2020 | 2021 |
|---------------------|---------------------|--------|--------|-------|-------|-------|
| Other Groundfish | Whole Fish | 0.01 | 0.01 | 0.23 | 0.04 | 0.15 |
| | Head And Gut | 0.07 | 0.02 | 0.05 | 0.01 | 0.00 |
| | Kirimi | * | - | - | - | - |
| | Fillet | - | * | - | - | - |
| | Fishmeal | * | * | * | * | * |
| | Other Products | 0.35 | 0.32 | 0.40 | 0.31 | 0.13 |
| | All Products | 0.43 | 0.36 | 0.68 | 0.36 | 0.29 |
| All Species | Whole Fish | 18.84 | 10.64 | 12.43 | 11.60 | 4.14 |
| | Head And Gut | 71.85 | 69.16 | 61.48 | 50.81 | 45.28 |
| | Salted/Split | - | - | - | * | - |
| | Kirimi | * | * | * | * | * |
| | Roe | 2.13 | 2.76 | 2.27 | 1.74 | 1.56 |
| | Fillet | 6.53 | 2.00 | 2.37 | 1.12 | 2.70 |
| | Deep-Skin Fillet | 0.63 | * | * | 0.23 | * |
| | Other Fillet | 15.09 | 13.08 | 8.80 | 7.60 | 8.65 |
| | Surimi | 10.61 | 9.77 | 6.95 | 5.43 | 5.93 |
| | Minced Fish | 1.44 | 0.98 | 0.84 | 1.80 | 0.76 |
| | Fishmeal | * | 1.11 | * | * | 0.50 |
| | Other Products | 7.11 | 3.20 | 3.70 | 1.71 | 3.16 |
| | All Products | 134.23 | 112.71 | 98.84 | 82.05 | 72.69 |

Note 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 NMFS Alaska Region At-sea and Shoreside Production Reports; and ADF&G Commercial Operators Annual Reports (COAR). Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.35: Gulf of Alaska gross value of groundfish products by species, 2017-2021, (\$ million).

| | Product | 2017 | 2018 | 2019 | 2020 | 2021 |
|------------------|-------------------|------------|-------|------|------|------|
| Pollock | Whole Fish | 5.7 | 0.5 | 1.9 | 0.3 | 0.4 |
| | Head And Gut | 30.1 | 36.2 | 32.6 | 25.9 | 14.4 |
| | Roe | 4.3 | 9.7 | 5.9 | 3.8 | 4.2 |
| | Deep-Skin Fillets | 2.1 | * | * | 0.8 | * |
| | Other Fillets | 32.9 | 33.6 | 26.9 | 23.2 | 29.5 |
| | Surimi | 17.7 | 20.7 | 16.6 | 12.8 | 16.7 |
| | Minced Fish | 1.5 | 1.3 | 1.4 | 3.4 | 1.4 |
| | Fishmeal | * | 1.5 | * | * | 0.9 |
| | Other Products | 2.5 | 1.4 | 0.7 | 0.2 | 1.0 |
| | All Products | 96.7 | 104.9 | 85.9 | 70.5 | 68.6 |
| | Pacific Cod | Whole Fish | 0.2 | 0.5 | 0.8 | 0.0 |
| Head And Gut | | 20.3 | 8.6 | 8.5 | 3.5 | 5.8 |
| Salted/Split Roe | | - | - | - | * | - |
| Fillets | | 1.6 | 1.1 | 0.9 | 0.4 | 1.3 |
| Other Products | | 45.3 | 19.2 | 21.5 | 10.1 | 25.5 |
| All Products | | 8.0 | 2.6 | 3.5 | 0.9 | 3.1 |
| | | 75.5 | 31.9 | 35.2 | 15.0 | 35.8 |
| | | 108.2 | 88.0 | 73.8 | 58.3 | 87.5 |
| Sablefish | Head And Gut | 108.2 | 88.0 | 73.8 | 58.3 | 87.5 |
| | Other Products | 3.1 | 1.9 | 5.3 | 3.7 | 6.8 |
| | All Products | 111.3 | 89.9 | 79.0 | 62.0 | 94.3 |
| Atka Mackerel | Whole Fish | * | 0.2 | - | - | - |
| | Head And Gut | 1.2 | 2.3 | 1.6 | 0.6 | 1.3 |
| | Other Products | * | * | * | * | * |
| | All Products | 1.2 | 2.5 | 1.6 | 0.6 | 1.3 |
| Arrowtooth | Whole Fish | 4.9 | 1.5 | 0.8 | 1.6 | - |
| | Head And Gut | 26.7 | 9.3 | 11.0 | 7.6 | 5.2 |
| | Kirimi Fillets | - | - | - | * | - |
| | Other Products | * | * | * | - | - |
| | All Products | * | 0.0 | * | * | * |
| | | 31.5 | 10.8 | 11.7 | 9.2 | 5.2 |
| Flathead Sole | Whole Fish | 0.6 | 1.2 | 0.9 | 0.9 | - |
| | Head And Gut | 0.7 | 0.6 | 0.5 | 0.3 | 0.3 |
| | Kirimi Fillets | * | * | * | * | - |
| | Other Products | * | * | * | * | * |
| | All Products | * | * | * | * | * |
| | | 1.3 | 1.8 | 1.4 | 1.2 | 0.3 |
| | | 1.3 | 1.8 | 1.4 | 1.2 | 0.3 |

Table 4.35: Gulf of Alaska gross value of groundfish products by species, 2017-2021, (\$ million).
(continued)

| | Product | 2017 | 2018 | 2019 | 2020 | 2021 | |
|------------------------|-------------------|--------------|------|------|------|------|------|
| Rex Sole | Whole Fish | 2.8 | 3.3 | 3.1 | 1.9 | 0.2 | |
| | Head And Gut | 0.0 | 0.1 | 0.0 | * | 0.0 | |
| | Kirimi | - | * | - | - | - | |
| | Fillets | 0.0 | * | * | * | * | |
| | Other | * | * | * | * | * | |
| | Products | | | | | | |
| | All Products | 2.8 | 3.4 | 3.2 | 1.9 | 0.2 | |
| Shallow-Water Flatfish | Whole Fish | 1.2 | 1.1 | 0.9 | 1.5 | - | |
| | Head And Gut | 0.3 | 1.2 | 0.9 | 1.7 | 1.4 | |
| | Kirimi | * | * | * | * | * | |
| | Fillets | * | * | * | * | - | |
| | Other | * | * | * | * | * | |
| | Products | | | | | | |
| | All Products | 1.5 | 2.3 | 1.8 | 3.2 | 1.4 | |
| Deep-Water Flatfish | Whole Fish | * | 0.0 | * | * | - | |
| | Head And Gut | * | 0.0 | * | * | - | |
| | Fillets | * | * | * | * | - | |
| | Other | * | - | - | - | - | |
| | Products | | | | | | |
| | | All Products | * | 0.0 | * | * | - |
| Pacific Ocean Perch | Whole Fish | 3.3 | 4.0 | 2.8 | 4.7 | 2.6 | |
| | Head And Gut | 24.1 | 27.7 | 19.1 | 15.9 | 24.4 | |
| | Other | 0.8 | 0.4 | 1.9 | 1.6 | 2.3 | |
| | Products | | | | | | |
| | | All Products | 28.1 | 32.1 | 23.8 | 22.2 | 29.4 |
| | Northern Rockfish | Whole Fish | 0.0 | 0.0 | * | * | * |
| Head And Gut | | 1.8 | 2.8 | 2.5 | 1.7 | 1.8 | |
| Other | | 0.1 | 0.0 | 0.0 | 0.0 | * | |
| Products | | | | | | | |
| | | All Products | 1.9 | 2.8 | 2.5 | 1.7 | 1.8 |
| Dusky Rockfish | | Whole Fish | 0.4 | 0.1 | 0.2 | 0.5 | 0.3 |
| | Head And Gut | 2.1 | 3.6 | 2.3 | 1.5 | 2.5 | |
| | Other | 0.5 | 0.1 | 0.1 | 0.2 | 0.2 | |
| | Products | | | | | | |
| | | All Products | 3.0 | 3.8 | 2.6 | 2.2 | 3.0 |
| | Other Rockfish | Whole Fish | 2.4 | 2.5 | 1.8 | 1.1 | 0.9 |
| Head And Gut | | 3.0 | 3.2 | 2.0 | 1.4 | 1.1 | |
| Other | | 0.8 | 1.0 | 1.2 | 0.9 | 0.9 | |
| Products | | | | | | | |
| | | All Products | 6.2 | 6.7 | 5.0 | 3.4 | 2.9 |

Table 4.35: Gulf of Alaska gross value of groundfish products by species, 2017-2021, (\$ million).
(continued)

| | Product | 2017 | 2018 | 2019 | 2020 | 2021 |
|------------|----------------|------|------|------|------|------|
| | Whole Fish | 0.0 | 0.0 | 0.8 | 0.1 | 0.5 |
| | Head And Gut | 0.2 | 0.1 | 0.2 | 0.0 | 0.0 |
| | Kirimi | * | - | - | - | - |
| | Fillets | - | * | - | - | - |
| Other | Fishmeal | * | * | * | * | * |
| Groundfish | Other Products | 1.7 | 1.4 | 1.7 | 1.3 | 0.5 |
| | All Products | 1.9 | 1.5 | 2.7 | 1.4 | 1.0 |

Note 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. Values are not adjusted for inflation. '*' indicates a confidential value; '-' indicates no applicable data or value.

Source NMFS Alaska Region At-sea and Shoreside Production Reports; and ADF&G Commercial Operators Annual Reports (COAR). Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.36: Gulf of Alaska price per pound of groundfish products by species, 2017-2021, (\$/lb).

| | Product | 2017 | 2018 | 2019 | 2020 | 2021 |
|---------------|-------------------|------------|------|------|------|------|
| Pollock | Whole Fish | 0.28 | 0.37 | 0.27 | 0.32 | 0.52 |
| | Head And Gut | 0.36 | 0.41 | 0.52 | 0.52 | 0.47 |
| | Roe | 1.80 | 1.83 | 1.42 | 1.10 | 1.88 |
| | Deep-Skin Fillets | 1.49 | * | * | 1.46 | * |
| | Other Fillets | 0.99 | 1.16 | 1.39 | 1.39 | 1.54 |
| | Surimi | 0.76 | 0.96 | 1.08 | 1.07 | 1.28 |
| | Minced Fish | 0.46 | 0.61 | 0.75 | 0.87 | 0.86 |
| | Fishmeal | * | 0.62 | * | * | 0.82 |
| | Other Products | 0.45 | 0.49 | 0.28 | 0.37 | 1.12 |
| | All Products | 0.56 | 0.69 | 0.76 | 0.80 | 0.98 |
| | Pacific Cod | Whole Fish | 0.81 | 0.86 | 1.42 | 0.59 |
| Head And Gut | | 1.51 | 2.04 | 1.28 | 1.39 | 1.55 |
| Roe | | 0.68 | 1.28 | 1.04 | 0.99 | 1.11 |
| Fillets | | 3.15 | 4.35 | 4.12 | 4.09 | 4.28 |
| Other | | 1.02 | 1.12 | 1.09 | 0.88 | 0.89 |
| Products | | | | | | |
| All Products | | 1.97 | 2.59 | 2.14 | 2.30 | 2.48 |
| Sablefish | Head And Gut | 9.30 | 6.83 | 5.12 | 4.11 | 4.48 |
| | Other | 3.92 | 2.99 | 5.58 | 4.85 | 5.20 |
| | Products | | | | | |
| | All Products | 8.95 | 6.65 | 5.15 | 4.15 | 4.53 |
| Atka Mackerel | Whole Fish | * | 0.97 | - | - | - |
| | Head And Gut | 1.47 | 1.42 | 1.17 | 1.10 | 1.25 |
| | Other | * | * | * | * | * |
| | Products | | | | | |
| | All Products | 1.47 | 1.38 | 1.17 | 1.10 | 1.25 |
| Arrowtooth | Whole Fish | 0.69 | 0.30 | 0.17 | 0.37 | - |
| | Head And Gut | 1.07 | 0.67 | 0.55 | 0.47 | 0.55 |
| | Fillets | * | * | * | - | - |
| | Other | * | 0.38 | * | * | * |
| | Products | | | | | |
| | All Products | 0.99 | 0.57 | 0.48 | 0.45 | 0.55 |
| Flathead Sole | Whole Fish | 0.59 | 0.53 | 0.39 | 0.38 | - |
| | Head And Gut | 0.74 | 0.95 | 0.87 | 0.66 | 0.76 |
| | Fillets | * | * | * | * | - |
| | Other | * | * | * | * | * |
| | Products | | | | | |
| | All Products | 0.67 | 0.62 | 0.49 | 0.42 | 0.76 |

Table 4.36: Gulf of Alaska price per pound of groundfish products by species, 2017-2021, (\$/lb).
(continued)

| | Product | 2017 | 2018 | 2019 | 2020 | 2021 |
|------------------------|-------------------|------------|------|------|------|------|
| Rex Sole | Whole Fish | 0.99 | 0.97 | 0.98 | 0.83 | 0.51 |
| | Head And Gut | 1.45 | 1.35 | 1.44 | * | 0.58 |
| | Fillets | 0.34 | * | * | * | * |
| | Other | * | * | * | * | * |
| | Products | | | | | |
| | All Products | 0.99 | 0.98 | 0.98 | 0.83 | 0.51 |
| Shallow-Water Flatfish | Whole Fish | 0.61 | 0.61 | 0.44 | 0.43 | - |
| | Head And Gut | 0.68 | 0.90 | 0.93 | 0.79 | 0.91 |
| | Fillets | * | * | * | * | - |
| | Other | * | * | * | * | * |
| | Products | | | | | |
| | All Products | 0.63 | 0.73 | 0.60 | 0.58 | 0.91 |
| Deep-Water Flatfish | Whole Fish | * | 0.45 | * | * | - |
| | Head And Gut | * | 0.39 | * | * | - |
| | Fillets | * | * | * | * | - |
| | Other | * | - | - | - | - |
| | Products | | | | | |
| | All Products | * | 0.40 | * | * | - |
| Pacific Ocean Perch | Whole Fish | 0.55 | 0.54 | 0.46 | 0.44 | 0.42 |
| | Head And Gut | 1.33 | 1.22 | 0.87 | 0.78 | 0.92 |
| | Other | 2.18 | 2.02 | 3.36 | 4.29 | 2.98 |
| | Products | | | | | |
| | All Products | 1.15 | 1.06 | 0.83 | 0.70 | 0.87 |
| | Northern Rockfish | Whole Fish | 0.76 | 0.42 | * | * |
| Head And Gut | | 1.01 | 1.04 | 0.83 | 0.63 | 0.69 |
| Other | | 2.11 | 1.96 | 2.81 | 2.44 | * |
| Products | | | | | | |
| All Products | | 1.03 | 1.03 | 0.83 | 0.63 | 0.69 |
| Dusky Rockfish | | Whole Fish | 0.62 | 0.72 | 0.77 | 0.71 |
| | Head And Gut | 1.00 | 1.14 | 0.88 | 0.77 | 0.86 |
| | Other | 2.98 | 2.48 | 3.04 | 4.87 | 3.79 |
| | Products | | | | | |
| | All Products | 1.02 | 1.15 | 0.88 | 0.82 | 0.86 |
| | Other Rockfish | Whole Fish | 1.98 | 1.86 | 1.81 | 1.62 |
| Head And Gut | | 2.01 | 1.93 | 1.55 | 1.44 | 1.08 |
| Other | | 2.91 | 4.76 | 5.34 | 4.52 | 5.58 |
| Products | | | | | | |
| All Products | | 2.08 | 2.08 | 1.99 | 1.86 | 1.66 |

Table 4.36: Gulf of Alaska price per pound of groundfish products by species, 2017-2021, (\$/lb).
(continued)

| | Product | 2017 | 2018 | 2019 | 2020 | 2021 |
|------------|----------------|------|------|------|------|------|
| | Whole Fish | 2.19 | 0.94 | 1.66 | 0.92 | 1.66 |
| | Head And Gut | 1.41 | 1.84 | 1.79 | 0.79 | 2.11 |
| | Fillets | - | * | - | - | - |
| Other | Fishmeal | * | * | * | * | * |
| Groundfish | Other Products | 2.18 | 2.01 | 1.89 | 1.89 | 1.60 |
| | All Products | 2.06 | 1.96 | 1.81 | 1.76 | 1.64 |

Note These estimates are based on data from both federal and state of Alaska fisheries. Prices based on confidential data have been excluded. Values are not adjusted for inflation. '*' indicates a confidential value; '-' indicates no applicable data or value.

Source NMFS Alaska Region At-sea and Shoreside Production Reports; and ADF&G Commercial Operators Annual Reports (COAR). Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.37: Gulf of Alaska total product value per round metric ton of retained catch by species and year, 2017-2021, (\$/mt).

| | 2017 | 2018 | 2019 | 2020 | 2021 |
|---------------|--------|-------|-------|-------|-------|
| Pollock | 542 | 684 | 735 | 664 | 710 |
| Sablefish | 11,043 | 8,537 | 7,229 | 5,448 | 6,166 |
| Pacific Cod | 1,572 | 2,194 | 2,422 | 2,952 | 2,012 |
| Flatfish | 1,233 | 795 | 641 | 593 | 689 |
| Rockfish | 1,452 | 1,445 | 1,098 | 974 | 1,048 |
| Atka Mackerel | 1,734 | 1,785 | 1,443 | 1,165 | 1,552 |
| Other | 1,496 | 1,440 | 2,085 | 1,670 | 3,486 |

Note These estimates include the product value of catch from both federal and state of Alaska fisheries. Values are not adjusted for inflation. '*' indicates a confidential value; '-' indicates no applicable data or value.

Source NMFS Alaska Region At-sea and Shoreside Production Reports; ADF&G Commercial Operators Annual Reports (COAR); and NMFS Alaska Region Blend and Catch-accounting System estimates. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.38: Gulf of Alaska number of processors, gross product value, value per processor, and percent value of GOA FMP groundfish of processed groundfish by processor group, 2017-2021 (\$ millions).

| | Year | Processors | Wholesale Value (\$million) | Wholesale Value per Processor (\$1,000) | Percent Value, GOA FMP Groundfish |
|--|------|------------|--------------------------------|--|--------------------------------------|
| Central And Western Gulf Trawl | 2017 | 11 | 50.35 | 4,576.89 | 10.96 |
| | 2018 | 9 | 34.64 | 3,849.20 | 8.30 |
| | 2019 | 11 | 28.78 | 2,616.46 | 7.71 |
| | 2020 | 9 | 21.89 | 2,431.82 | 9.50 |
| | 2021 | 7 | 27.58 | 3,939.59 | 8.80 |
| CP Hook and Line | 2017 | 11 | 10.22 | 929.25 | 2.22 |
| | 2018 | 7 | 2.94 | 420.58 | 0.71 |
| | 2019 | 7 | 2.46 | 351.83 | 0.66 |
| | 2020 | 4 | 0.08 | 19.74 | 0.03 |
| | 2021 | 5 | 3.28 | 655.13 | 1.05 |
| Sablefish IFQ | 2017 | 6 | 5.38 | 896.88 | 1.17 |
| | 2018 | 5 | 4.35 | 870.40 | 1.04 |
| | 2019 | 7 | 3.89 | 555.68 | 1.04 |
| | 2020 | 5 | 2.13 | 426.97 | 0.93 |
| | 2021 | 5 | 5.26 | 1,051.81 | 1.68 |
| Motherships & Inshore Floating Procs. | 2017 | 4 | 114.32 | 28,579.92 | 24.88 |
| | 2018 | 3 | 113.17 | 37,724.78 | 27.12 |
| | 2019 | 3 | 106.14 | 35,379.26 | 28.42 |
| | 2020 | 2 | * | * | * |
| | 2021 | 2 | * | * | * |
| Kodiak Shoreside Procs. | 2017 | 8 | 139.67 | 17,458.44 | 30.40 |
| | 2018 | 8 | 138.62 | 17,328.11 | 33.22 |
| | 2019 | 6 | 111.06 | 18,509.63 | 29.74 |
| | 2020 | 7 | 98.76 | 14,108.99 | 42.85 |
| | 2021 | 6 | 113.31 | 18,884.98 | 36.16 |
| Southcentral Gulf Shoreside Procs. | 2017 | 11 | 39.37 | 3,578.73 | 8.57 |
| | 2018 | 11 | 29.05 | 2,640.61 | 6.96 |
| | 2019 | 10 | 24.43 | 2,442.82 | 6.54 |
| | 2020 | 10 | 15.55 | 1,554.54 | 6.74 |
| | 2021 | 8 | 27.29 | 3,410.84 | 8.71 |
| Southeastern Gulf Shoreside Procs. | 2017 | 14 | 40.24 | 2,874.21 | 8.76 |
| | 2018 | 14 | 34.41 | 2,458.15 | 8.25 |
| | 2019 | 17 | 33.28 | 1,957.36 | 8.91 |
| | 2020 | 15 | 25.78 | 1,718.70 | 11.18 |
| | 2021 | 17 | 36.80 | 2,164.97 | 11.74 |
| Western Gulf Shoreside Procs. | 2017 | 3 | 59.88 | 19,959.23 | 13.03 |
| | 2018 | 2 | * | * | * |
| | 2019 | 3 | 63.45 | 21,149.68 | 16.99 |
| | 2020 | 4 | 38.55 | 9,638.21 | 16.73 |
| | 2021 | 3 | 49.89 | 16,631.06 | 15.92 |

Note The data are for catch from both federal and state of Alaska fisheries. The processor groups are defined as follows: "Western and Central Gulf Trawl" are the processors in the Western and Central Gulf. "CP Hook and Line" are the hook and line catcher processors. "Sablefish IFQ" are processors processing sablefish IFQ. Values are not adjusted for inflation.

Source ADF&G Commercial Operators Annual Reports (COAR); and ADF&G Intent to Operate (ITO) file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.39: Gulf of Alaska number of vessels, average and median length, and average and median capacity (tonnage) of vessels that caught groundfish by vessel type, and gear, 2017-2021.

| | Year | Vessels | Average Length (feet) | Median Length (feet) | Average Capacity (tons) | Median Capacity (tons) |
|--------------------------------|------|---------|-----------------------|----------------------|-------------------------|------------------------|
| Central And Western Gulf Trawl | 2017 | 79 | 90 | 88.0 | 124 | 114.0 |
| | 2018 | 78 | 88 | 87.0 | 115 | 114.0 |
| | 2019 | 76 | 89 | 87.0 | 130 | 115.0 |
| | 2020 | 70 | 90 | 87.0 | 135 | 115.0 |
| | 2021 | 68 | 92 | 88.0 | 141 | 115.0 |
| CV Hook and Line | 2017 | 49 | 43 | 42.0 | 26 | 24.0 |
| | 2018 | 33 | 44 | 42.0 | 27 | 24.0 |
| | 2019 | 32 | 44 | 42.0 | 26 | 24.0 |
| | 2020 | 2 | 47 | 47.0 | 20 | 19.5 |
| | 2021 | 36 | 44 | 42.0 | 27 | 24.0 |
| CP Hook and Line | 2017 | 10 | 141 | 128.0 | 344 | 133.0 |
| | 2018 | 3 | 101 | 119.0 | 245 | 153.0 |
| | 2019 | 2 | 135 | 119.0 | 262 | 133.0 |
| | 2021 | 2 | 159 | 158.5 | 389 | 389.0 |
| Sablefish IFQ | 2017 | 262 | 56 | 57.0 | 47 | 36.0 |
| | 2018 | 262 | 57 | 57.0 | 48 | 39.0 |
| | 2019 | 254 | 57 | 57.0 | 48 | 36.0 |
| | 2020 | 241 | 57 | 57.0 | 49 | 39.5 |
| | 2021 | 245 | 58 | 57.0 | 52 | 41.0 |
| Pot | 2017 | 108 | 61 | 58.0 | 57 | 48.0 |
| | 2018 | 58 | 65 | 58.0 | 62 | 51.0 |
| | 2019 | 60 | 66 | 58.0 | 67 | 51.0 |
| | 2020 | 38 | 52 | 55.0 | 43 | 41.0 |
| | 2021 | 64 | 61 | 58.0 | 64 | 52.0 |
| Jig | 2017 | 103 | 37 | 36.0 | 14 | 13.0 |
| | 2018 | 98 | 39 | 36.0 | 14 | 12.0 |
| | 2019 | 108 | 40 | 41.0 | 16 | 15.0 |
| | 2020 | 94 | 39 | 38.0 | 15 | 15.0 |
| | 2021 | 96 | 38 | 38.0 | 21 | 15.0 |
| No Fleet/ Other | 2017 | 8 | 41 | 38.0 | 15 | 11.0 |
| | 2018 | 8 | 39 | 35.0 | 14 | 10.0 |
| | 2019 | 8 | 43 | 40.0 | 14 | 11.0 |
| | 2020 | 4 | 39 | 40.0 | 16 | 16.0 |
| | 2021 | 3 | 62 | 68.0 | 45 | 24.0 |

Note 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 and Catch-accounting System estimates; CFEC gross earnings (fish tickets) file; NMFS Alaska Region groundfish observer data; NMFS Alaska Region permit data; CFEC vessel registration file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.40: Gulf of Alaska number of vessels that caught groundfish by month, vessel type, and gear, 2017-2021.

| Sector | Gear | Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year | |
|--------------------|---------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|---|
| Catcher Vessels | Hook And Line | 2017 | 54 | 81 | 124 | 164 | 172 | 129 | 79 | 73 | 122 | 104 | 56 | 19 | 371 | |
| | | 2018 | 10 | 48 | 98 | 125 | 178 | 123 | 59 | 103 | 174 | 114 | 103 | 17 | 353 | |
| | | 2019 | 29 | 59 | 140 | 173 | 150 | 123 | 60 | 93 | 113 | 106 | 69 | 10 | 351 | |
| | | 2020 | 4 | 19 | 88 | 98 | 143 | 86 | 54 | 72 | 100 | 113 | 38 | 5 | 291 | |
| | | 2021 | 31 | 44 | 93 | 116 | 134 | 60 | 50 | 40 | 58 | 85 | 50 | 29 | 280 | |
| | Pot | 2017 | 74 | 86 | 89 | 91 | 16 | 11 | 9 | 5 | 11 | 18 | 15 | 8 | 127 | |
| | | 2018 | 24 | 30 | 46 | 10 | 14 | 11 | 5 | 6 | 16 | 14 | 13 | 5 | 78 | |
| | | 2019 | 24 | 24 | 39 | 15 | 18 | 13 | 4 | 7 | 22 | 25 | 18 | 3 | 88 | |
| | | 2020 | 1 | 8 | 37 | 22 | 35 | 28 | 20 | 33 | 55 | 62 | 36 | 3 | 137 | |
| | | 2021 | 30 | 24 | 52 | 63 | 87 | 57 | 39 | 33 | 60 | 80 | 55 | 27 | 206 | |
| | Trawl | 2017 | 37 | 45 | 61 | 42 | 21 | 17 | 5 | 4 | 53 | 60 | 35 | 1 | 68 | |
| | | 2018 | 12 | 53 | 51 | 25 | 19 | 14 | 2 | 35 | 59 | 61 | 28 | 2 | 69 | |
| | | 2019 | 32 | 47 | 50 | 25 | 25 | 22 | 1 | 20 | 47 | 50 | 21 | - | 65 | |
| | | 2020 | 28 | 37 | 43 | 19 | 24 | 16 | 4 | 33 | 44 | 51 | 11 | - | 61 | |
| | | 2021 | 17 | 52 | 45 | 19 | 16 | 12 | 5 | - | 48 | 35 | 13 | - | 61 | |
| | All Gear | 2017 | 165 | 208 | 258 | 292 | 206 | 155 | 91 | 81 | 185 | 177 | 105 | 28 | 522 | |
| | | 2018 | 46 | 131 | 187 | 158 | 211 | 146 | 66 | 142 | 248 | 188 | 141 | 24 | 467 | |
| | | 2019 | 85 | 130 | 221 | 209 | 191 | 156 | 65 | 119 | 180 | 177 | 106 | 13 | 468 | |
| | | 2020 | 33 | 64 | 163 | 134 | 190 | 123 | 72 | 127 | 175 | 195 | 74 | 8 | 414 | |
| | | 2021 | 77 | 118 | 169 | 169 | 204 | 111 | 77 | 61 | 152 | 168 | 101 | 49 | 432 | |
| Catcher Processors | Hook And Line | 2017 | - | 3 | 7 | 7 | 3 | 2 | 2 | 1 | 6 | 3 | 1 | 1 | 11 | |
| | | 2018 | - | 2 | 5 | 3 | 1 | 2 | 1 | 1 | 3 | - | 1 | - | 7 | |
| | | 2019 | - | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 4 | 2 | 2 | - | 8 | |
| | | 2020 | - | - | 1 | 1 | 2 | 1 | - | 1 | 1 | - | - | - | 4 | |
| | | 2021 | - | 3 | 2 | 1 | - | - | 2 | 1 | 1 | 2 | 3 | - | 5 | |
| | Pot | 2020 | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | 1 |
| | | 2021 | - | - | - | - | 2 | 2 | - | - | - | - | 1 | 1 | - | 3 |
| | Trawl | 2017 | - | 1 | 2 | 2 | 2 | 4 | 10 | 6 | 4 | 4 | 2 | 1 | 11 | |
| | | 2018 | - | - | 1 | 2 | 1 | 5 | 8 | 4 | 4 | 1 | 1 | 1 | 9 | |
| | | 2019 | - | - | 1 | 1 | 1 | 3 | 6 | 6 | 5 | 4 | 2 | 1 | 11 | |
| 2020 | | - | - | 1 | 3 | 2 | 4 | 7 | 5 | 2 | 1 | 1 | - | 9 | | |
| 2021 | | - | - | - | - | 1 | 5 | 6 | 6 | 3 | 2 | 1 | 1 | 7 | | |
| All Gear | 2017 | - | 4 | 9 | 9 | 5 | 6 | 12 | 7 | 10 | 7 | 3 | 2 | 22 | | |
| | 2018 | - | 2 | 6 | 5 | 2 | 7 | 9 | 5 | 7 | 1 | 2 | 1 | 16 | | |
| | 2019 | - | 1 | 2 | 2 | 3 | 5 | 8 | 7 | 9 | 6 | 4 | 1 | 19 | | |
| | 2020 | - | - | 2 | 4 | 4 | 5 | 7 | 6 | 3 | 2 | 2 | - | 14 | | |
| | 2021 | - | 3 | 2 | 1 | 3 | 7 | 8 | 7 | 4 | 5 | 5 | 1 | 14 | | |

Note 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 and Catch-accounting System estimates; CFEC gross earnings (fish tickets) file; NMFS Alaska Region groundfish observer data; NMFS Alaska Region permit data; CFEC vessel registration file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.41: Gulf of Alaska catcher vessel (excluding catcher/processors) weeks of fishing groundfish by vessel-length class (feet), gear, and target ,2017-2021.

| | Year | Hook & Line | | Pot | | Trawl | | All Gear | |
|---------|------|-------------|----------|-------|----------|-------|----------|----------|----------|
| | | <60ft | 60-124ft | <60ft | 60-124ft | <60ft | 60-124ft | <60ft | 60-124ft |
| Pollock | 2017 | - | - | - | - | 180 | 516 | - | - |
| | 2018 | - | - | - | - | 187 | 487 | - | - |
| | 2019 | - | - | - | - | 142 | 389 | - | - |
| | 2020 | - | - | - | - | 144 | 422 | - | - |
| | 2021 | - | - | - | - | 82 | 463 | - | - |

Table 4.41: Gulf of Alaska catcher vessel (excluding catcher/processors) weeks of fishing groundfish by vessel-length class (feet), gear, and target ,2017-2021. (*continued*)

| | Year | Hook & Line | | Pot | | Trawl | | All Gear | |
|----------------|------|-------------|----------|-------|----------|-------|----------|----------|----------|
| | | <60ft | 60-124ft | <60ft | 60-124ft | <60ft | 60-124ft | <60ft | 60-124ft |
| Sablefish | 2017 | 1,334 | 274 | 131 | 45 | - | 9 | - | - |
| | 2018 | 1,463 | 287 | 134 | 57 | - | 18 | - | - |
| | 2019 | 1,322 | 298 | 200 | 62 | - | 12 | - | - |
| | 2020 | 1,005 | 164 | 467 | 201 | 1 | 10 | - | - |
| | 2021 | 727 | 47 | 785 | 316 | - | 10 | - | - |
| Pacific Cod | 2017 | 574 | - | 880 | 209 | 109 | 58 | - | - |
| | 2018 | 371 | 1 | 190 | 93 | 29 | 3 | - | - |
| | 2019 | 394 | 1 | 171 | 80 | 41 | 7 | - | - |
| | 2020 | 254 | - | 80 | 5 | - | 2 | - | - |
| | 2021 | 529 | 8 | 223 | 37 | 57 | 8 | - | - |
| Flatfish | 2017 | - | - | - | - | - | 102 | - | - |
| | 2018 | - | - | - | - | 26 | 136 | - | - |
| | 2019 | - | - | - | - | 17 | 165 | - | - |
| | 2020 | - | - | - | - | 2 | 150 | - | - |
| | 2021 | - | - | - | - | - | 1 | - | - |
| Rockfish | 2017 | 278 | 2 | - | - | 7 | 86 | - | - |
| | 2018 | 250 | 7 | - | - | 5 | 98 | - | - |
| | 2019 | 238 | 1 | - | - | 6 | 113 | - | - |
| | 2020 | 186 | - | - | - | 6 | 112 | - | - |
| | 2021 | 109 | - | - | - | 3 | 116 | - | - |
| Atka Mackerel | 2018 | - | - | - | - | - | 0 | - | - |
| All Groundfish | 2017 | 2,194 | 276 | - | - | 297 | 771 | 3,502 | 1,302 |
| | 2018 | 2,095 | 295 | - | - | 247 | 742 | 2,669 | 1,187 |
| | 2019 | 1,959 | 300 | - | - | 207 | 686 | 2,536 | 1,127 |
| | 2020 | 1,452 | 164 | - | - | 152 | 696 | 2,152 | 1,066 |
| | 2021 | 1,367 | 55 | - | - | 142 | 599 | 2,518 | 1,007 |

Note 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 Blend and Catch-accounting System estimates; CFEC gross earnings (fish tickets) file; NMFS Alaska Region groundfish observer data; NMFS Alaska Region permit data; CFEC vessel registration file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.42: Gulf of Alaska catcher/processor vessel weeks of fishing groundfish by vessel-length class (feet), gear, and target, 2017-2021.

| Target | Year | Hook & Line | | | Pot | Trawl | | | All Gear | | | |
|----------------|------|-------------|----------|-----------|-----------|----------|-----------|--------|----------|----------|-----------|--------|
| | | <60ft | 60-124ft | 125-230ft | 125-230ft | 60-124ft | 125-230ft | >230ft | <60ft | 60-124ft | 125-230ft | >230ft |
| Pollock | 2018 | - | - | - | - | 0 | 0 | - | - | - | - | - |
| | 2020 | - | - | - | - | - | 0 | - | - | - | - | - |
| | 2021 | - | - | - | - | 1 | 0 | - | - | - | - | - |
| Sablefish | 2017 | 9 | - | 19 | - | - | - | - | - | - | - | - |
| | 2018 | 10 | - | 21 | - | 0 | - | - | - | - | - | - |
| | 2019 | 8 | - | 23 | - | 0 | - | - | - | - | - | - |
| | 2020 | 9 | - | 11 | 7 | - | - | - | - | - | - | - |
| | 2021 | 9 | - | 7 | 17 | - | - | - | - | - | - | - |
| Pacific Cod | 2017 | - | 23 | 24 | - | 1 | - | - | - | - | - | - |
| | 2018 | 7 | 7 | 1 | - | - | - | - | - | - | - | - |
| | 2019 | 1 | 6 | 3 | - | - | - | - | - | - | - | - |
| | 2021 | - | - | 11 | - | - | - | - | - | - | - | - |
| Flatfish | 2017 | - | - | - | - | 62 | 16 | - | - | - | - | - |
| | 2018 | - | - | - | - | 34 | 4 | - | - | - | - | - |
| | 2019 | - | - | - | - | 45 | 10 | - | - | - | - | - |
| | 2020 | - | - | - | - | 28 | 10 | 3 | - | - | - | - |
| | 2021 | - | - | - | - | 22 | 11 | 3 | - | - | - | - |
| Rockfish | 2017 | - | - | 0 | - | 5 | 32 | 0 | - | - | - | - |
| | 2018 | - | - | - | - | 7 | 35 | - | - | - | - | - |
| | 2019 | - | - | - | - | 5 | 34 | 1 | - | - | - | - |
| | 2020 | - | - | - | - | 1 | 33 | 4 | - | - | - | - |
| | 2021 | - | - | - | - | 2 | 40 | 7 | - | - | - | - |
| Atka Mackerel | 2017 | - | - | - | - | 1 | - | - | - | - | - | - |
| | 2018 | - | - | - | - | 0 | 0 | - | - | - | - | - |
| All Groundfish | 2017 | 9 | 24 | 43 | - | 69 | 48 | 0 | 9 | 92 | 91 | 0 |
| | 2018 | 17 | 7 | 23 | - | 42 | 40 | - | 17 | 48 | 62 | - |
| | 2019 | 9 | 6 | 25 | - | 50 | 44 | 1 | 9 | 56 | 69 | 1 |
| | 2020 | 9 | - | 11 | 7 | 29 | 43 | 7 | 9 | 29 | 61 | 7 |
| | 2021 | 9 | - | 18 | 17 | 25 | 51 | 10 | 9 | 25 | 86 | 10 |

Note 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 Blend and Catch-accounting System estimates; NMFS Alaska Region At-sea Production Reports; ADF&G Commercial Operators Annual Reports (COAR); and NMFS Office of Science and Technology, Fisheries Statistics Division, Fisheries of the United States. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.43: Gulf of Alaska catcher vessel crew weeks in the groundfish fisheries by month, 2017-2021.

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year |
|------|-------|-------|-------|-------|-------|-------|-----|-----|-------|-------|-----|-----|--------|
| 2017 | 1,500 | 2,191 | 2,262 | 2,556 | 1,486 | 1,185 | 598 | 616 | 1,682 | 1,858 | 648 | 228 | 16,810 |
| 2018 | 352 | 1,144 | 1,378 | 1,323 | 1,721 | 1,270 | 494 | 808 | 2,240 | 1,842 | 926 | 156 | 13,654 |
| 2019 | 428 | 1,055 | 1,492 | 1,396 | 1,642 | 1,209 | 442 | 924 | 1,456 | 1,712 | 729 | 72 | 12,558 |
| 2020 | 116 | 640 | 1,018 | 970 | 1,525 | 852 | 458 | 914 | 1,395 | 2,004 | 512 | 34 | 10,436 |
| 2021 | 490 | 984 | 1,390 | 1,138 | 1,740 | 799 | 598 | 509 | 1,208 | 1,882 | 774 | 223 | 11,734 |

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

Source NMFS Alaska Region At-sea Production Reports. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.44: Gulf of Alaska at-sea processor vessel crew weeks in the groundfish fisheries by month, 2017-2021.

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Year |
|------|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-------|
| 2017 | - | 113 | 463 | 262 | 135 | 317 | 1,116 | 615 | 592 | 297 | 156 | * | 4,066 |
| 2018 | - | * | 146 | 194 | 116 | 490 | 877 | 408 | 247 | * | * | * | 2,478 |
| 2019 | - | * | * | * | 134 | 332 | 604 | 556 | 526 | 346 | 312 | * | 2,810 |
| 2020 | - | - | * | 203 | 318 | 571 | 670 | 429 | 86 | * | * | - | 2,277 |
| 2021 | - | 72 | * | * | 126 | 609 | 1,164 | 408 | 294 | 250 | 205 | * | 3,128 |

Note 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 at-sea crew weeks in all areas. '*' indicates a confidential value; '-' indicates no applicable data or value.

Source NMFS Alaska Region At-sea Production Reports. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

4.4 Economic Data Tables for the Commercial Pacific Halibut Fishery

Table 4.45: Catch (net landed weight) in the commercial Pacific halibut fisheries off Alaska by region, 2017-2021, (hundreds of metric tons).

| Year | Gulf Of Alaska | Bering Sea And Aleutian Islands | All Alaska |
|------|----------------|---------------------------------|------------|
| 2017 | 70.19 | 16.50 | 86.68 |
| 2018 | 67.27 | 15.93 | 83.19 |
| 2019 | 69.67 | 17.16 | 86.83 |
| 2020 | 64.38 | 15.64 | 80.02 |
| 2021 | 76.65 | 13.58 | 90.23 |

Note These estimates include catch from all Alaska commercial fisheries (including CDQ). Net weight is dressed, head-off, slime and ice deducted. '*' indicates a confidential value; '-' indicates no applicable data or value.

Source ADF&G fish tickets; CFEC gross earnings (fish tickets) file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.46: Catch (net landed weight) and percent of regional catch in the commercial Pacific halibut fisheries off Alaska by vessel length (feet) and region, 2017-2021, (hundreds of metric tons).

| Year | Length | Gulf of Alaska | | Bering Sea and Aleutian Islands | | All Alaska | |
|------|--------|----------------|---------|---------------------------------|---------|------------|---------|
| | | Net Tons | Percent | Net Tons | Percent | Net Tons | Percent |
| 2017 | <20 | 0.10 | 0.0 | * | * | 0.10 | 0.0 |
| | 20-29 | 1.88 | 0.03 | 1.05 | 0.06 | 2.93 | 0.03 |
| | 30-39 | 11.15 | 0.16 | 2.82 | 0.17 | 13.97 | 0.16 |
| | 40-49 | 25.94 | 0.37 | 3.21 | 0.20 | 29.15 | 0.34 |
| | 50-59 | 21.34 | 0.31 | 5.65 | 0.35 | 27.00 | 0.31 |
| | >=60 | 9.48 | 0.14 | 3.65 | 0.22 | 13.13 | 0.15 |
| 2018 | <20 | 0.09 | 0.0 | * | * | 0.09 | 0.0 |
| | 20-29 | 1.48 | 0.02 | 1.05 | 0.07 | 2.53 | 0.03 |
| | 30-39 | 11.18 | 0.17 | 3.13 | 0.20 | 14.32 | 0.17 |
| | 40-49 | 26.20 | 0.39 | 3.23 | 0.20 | 29.43 | 0.36 |
| | 50-59 | 19.66 | 0.29 | 4.91 | 0.31 | 24.57 | 0.30 |
| | >=60 | 8.50 | 0.13 | 3.44 | 0.22 | 11.94 | 0.14 |
| 2019 | <20 | 0.09 | 0.0 | * | * | 0.09 | 0.0 |
| | 20-29 | 1.73 | 0.02 | 0.92 | 0.05 | 2.65 | 0.03 |
| | 30-39 | 12.53 | 0.18 | 3.12 | 0.19 | 15.65 | 0.18 |
| | 40-49 | 26.48 | 0.38 | 2.90 | 0.17 | 29.38 | 0.34 |
| | 50-59 | 19.86 | 0.29 | 5.95 | 0.35 | 25.80 | 0.30 |
| | >=60 | 8.86 | 0.13 | 3.93 | 0.23 | 12.79 | 0.15 |
| 2020 | <20 | * | * | * | * | 0.0 | 0.0 |
| | 20-29 | 1.75 | 0.03 | * | * | 1.75 | 0.02 |
| | 30-39 | 11.75 | 0.18 | 1.34 | 0.09 | 13.10 | 0.16 |
| | 40-49 | 24.94 | 0.39 | 2.60 | 0.17 | 27.54 | 0.35 |
| | 50-59 | 17.87 | 0.28 | 7.39 | 0.48 | 25.26 | 0.32 |
| | >=60 | 7.92 | 0.12 | 3.94 | 0.26 | 11.86 | 0.15 |
| 2021 | <20 | 0.07 | 0.0 | * | * | 0.07 | 0.0 |
| | 20-29 | 2.19 | 0.03 | * | * | 2.19 | 0.03 |
| | 30-39 | 13.77 | 0.18 | 0.61 | 0.08 | 14.38 | 0.17 |
| | 40-49 | 28.79 | 0.38 | 2.52 | 0.35 | 31.31 | 0.37 |
| | 50-59 | 22.58 | 0.30 | * | * | 22.58 | 0.27 |
| | >=60 | 9.13 | 0.12 | 4.08 | 0.57 | 13.21 | 0.16 |

Note Excludes vessels in the Annette Island commercial Pacific halibut fishery. These estimates include catch from all Alaska commercial fisheries (including CDQ). Net weight is dressed, head-off, slime and ice deducted. '''*''' indicates a confidential value; '-' indicates no applicable data or value.

Source ADF&G fish tickets; CFEC gross earnings (fish tickets) file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.47: Non-halibut prohibited species catch on commercial Pacific halibut target trips off Alaska by PSC species and area, 2017-2021.

| Zone | Year | Chinook Salmon (Count) | Non-Chinook Salmon (Count) | Herring (Tons) | Bairdi Tanner Crab (Count) | Opilio Tanner (Snow) Crab (Count) | Red King Crab (Count) | Other King Crab (Count) |
|---------------------------------|------|------------------------|----------------------------|----------------|----------------------------|-----------------------------------|-----------------------|-------------------------|
| Gulf Of Alaska | 2017 | * | 81 | - | * | * | 114 | 46 |
| | 2018 | - | 62 | - | 131 | 1 | 17 | 96 |
| | 2019 | 17 | 93 | - | 57 | - | 2 | 28 |
| | 2020 | - | - | - | 1 | 0.0 | - | 199 |
| | 2021 | - | 21 | - | 76 | - | * | 572 |
| Bering Sea And Aleutian Islands | 2017 | - | - | - | 53 | 71 | 182 | 820 |
| | 2018 | - | 32 | * | 32 | 128 | 35 | 610 |
| | 2019 | * | * | * | 22 | 47 | 3 | 551 |
| | 2020 | * | 0.0 | - | 28 | 75 | 0.0 | 558 |
| | 2021 | 0.0 | 0.0 | 0.0 | 32 | 147 | 20 | 22 |

Note These estimates include catch from all Alaska commercial fisheries (including CDQ). For details on prohibited species catch estimation see Cahalan, J., J. Gasper, and J. Mondragon. 2014. Catch sampling and estimation in the federal groundfish fisheries off Alaska, 2015 edition. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-286, 46 p. "*" indicates a confidential value; "-" indicates no applicable data or value.

Source NMFS Alaska Regional Office Prohibited Species Catch database. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.48: Ex-vessel value and price in the commercial Pacific halibut fisheries off Alaska by region, 2017-2021, (\$ millions and \$/lb net weight, respectively).

| Year | Gulf of Alaska | | Bering Sea and Aleutian Islands | | All Alaska | |
|------|----------------|-------|---------------------------------|-------|------------|-------|
| | Value | Price | Value | Price | Value | Price |
| 2017 | 89.31 | 5.77 | 19.18 | 5.27 | 108.48 | 5.68 |
| 2018 | 75.38 | 5.08 | 15.44 | 4.40 | 90.82 | 4.95 |
| 2019 | 79.59 | 5.18 | 15.31 | 4.05 | 94.89 | 4.96 |
| 2020 | 57.82 | 4.07 | 12.65 | 3.67 | 70.47 | 4.00 |
| 2021 | 110.48 | 6.54 | 17.68 | 5.91 | 128.17 | 6.44 |

Note These estimates include catch from all Alaska commercial fisheries (including CDQ). Price is calculated as landed value divided by net weight. Values are not adjusted for inflation. Net weight is dressed, head-off, slime and ice deducted. '*' indicates a confidential value; '-' indicates no applicable data or value.

Source ADF&G fish tickets; CFEC gross earnings (fish tickets) file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.49: Ex-vessel value and price in the commercial Pacific halibut fisheries off Alaska by IPHC area, 2017-2021, (\$ millions and \$/lb net weight, respectively).

| Area | | 2017 | 2018 | 2019 | 2020 | 2021 |
|------|-------|-------|-------|-------|-------|-------|
| 2c | Value | 23.09 | 19.25 | 19.79 | 14.74 | 27.28 |
| | Price | 5.86 | 5.06 | 5.26 | 4.10 | 6.34 |
| 3a | Value | 46.04 | 40.46 | 45.25 | 30.85 | 65.54 |
| | Price | 5.81 | 5.15 | 5.28 | 4.11 | 6.66 |
| 3b | Value | 16.48 | 13.35 | 12.24 | 10.04 | 12.13 |
| | Price | 5.61 | 5.01 | 5.03 | 4.02 | 6.66 |
| 4a | Value | 7.48 | 6.07 | 5.79 | 4.68 | 9.28 |
| | Price | 5.48 | 4.54 | 3.86 | 3.68 | 5.89 |
| 4b | Value | 5.98 | 5.07 | 4.50 | 3.63 | 4.93 |
| | Price | 5.14 | 4.40 | 4.16 | 3.66 | 5.88 |
| 4cde | Value | 9.41 | 6.63 | 7.32 | 6.53 | 9.01 |
| | Price | 5.28 | 4.34 | 4.07 | 3.66 | 5.95 |

Note Values and prices are for catch from all Alaska commercial fisheries (including CDQ). Price is calculated as landed value divided by net weight. Values are not adjusted for inflation. Net weight is dressed, head-off, slime and ice deducted. '-' indicates a confidential value; '-' indicates no applicable data or value.

Source ADF&G fish tickets; CFEC gross earnings (fish tickets) file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.50: Ex-vessel value and average annual revenue per vessel in the commercial Pacific halibut fisheries off Alaska by region and vessel length (feet), 2017-2021, (\$ millions and \$ thousands, respectively).

| Year | Length | Gulf of Alaska | | Bering Sea and Aleutian Islands | | All Alaska | |
|------|--------|----------------|-------------------|---------------------------------|-------------------|------------|-------------------|
| | | Value | Avg. Value/Vessel | Value | Avg. Value/Vessel | Value | Avg. Value/Vessel |
| 2017 | <20 | 0.13 | 9.86 | * | * | 0.27 | 12.07 |
| | 20-29 | 2.40 | 25.31 | 1.19 | 41.02 | 3.59 | 29.22 |
| | 30-39 | 14.11 | 56.23 | 3.22 | 94.83 | 17.34 | 63.04 |
| | 40-49 | 32.90 | 122.29 | 3.75 | 234.41 | 36.65 | 134.73 |
| | 50-59 | 27.15 | 205.70 | 6.51 | 260.43 | 33.66 | 255.02 |
| | >=60 | 12.21 | 313.11 | 4.36 | 256.66 | 16.57 | 394.63 |
| 2018 | <20 | 0.10 | 7.46 | * | * | 0.29 | 14.40 |
| | 20-29 | 1.65 | 20.09 | 0.97 | 37.28 | 2.62 | 24.45 |
| | 30-39 | 12.49 | 50.38 | 2.99 | 80.78 | 15.48 | 57.35 |
| | 40-49 | 29.28 | 108.05 | 3.16 | 185.68 | 32.44 | 117.96 |
| | 50-59 | 21.99 | 167.90 | 4.74 | 197.67 | 26.74 | 201.04 |
| | >=60 | 9.71 | 236.92 | 3.39 | 199.26 | 13.10 | 297.75 |
| 2019 | <20 | 0.10 | 6.29 | * | * | 0.50 | 18.42 |
| | 20-29 | 1.98 | 22.47 | 0.83 | 31.82 | 2.80 | 24.82 |
| | 30-39 | 14.11 | 54.91 | 2.74 | 76.07 | 16.85 | 59.96 |
| | 40-49 | 30.50 | 122.99 | 2.63 | 187.60 | 33.13 | 130.94 |
| | 50-59 | 22.49 | 178.51 | 5.24 | 227.72 | 27.73 | 218.34 |
| | >=60 | 10.25 | 256.24 | 3.48 | 193.39 | 13.73 | 319.31 |
| 2020 | <20 | * | * | * | * | 0.29 | 17.09 |
| | 20-29 | 1.55 | 19.64 | * | * | 1.60 | 18.61 |
| | 30-39 | 10.37 | 45.10 | 1.15 | 49.98 | 11.52 | 47.81 |
| | 40-49 | 22.31 | 89.24 | 2.07 | 137.95 | 24.38 | 95.60 |
| | 50-59 | 16.15 | 134.55 | 5.89 | 309.90 | 22.03 | 180.61 |
| | >=60 | 7.32 | 197.82 | 3.23 | 189.90 | 10.55 | 263.69 |
| 2021 | <20 | 0.09 | 6.51 | * | * | 0.25 | 11.81 |
| | 20-29 | 3.13 | 44.02 | * | * | 3.18 | 40.27 |
| | 30-39 | 19.58 | 84.04 | 0.80 | 42.00 | 20.38 | 84.22 |
| | 40-49 | 41.58 | 176.21 | 3.21 | 292.09 | 44.80 | 187.44 |
| | 50-59 | 32.40 | 263.43 | * | * | 40.39 | 323.11 |
| | >=60 | 13.50 | 385.76 | 5.47 | 341.99 | 18.97 | 499.30 |

Note Values are for catch from all Alaska commercial fisheries (including CDQ). Excludes vessels in the Annette Island commercial Pacific halibut fishery. Length is measured in feet. Values are not adjusted for inflation. '*' indicates a confidential value; '-' indicates no applicable data or value.

Source ADF&G fish tickets; CFEC gross earnings (fish tickets) file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.51: Ex-vessel value port ranking, annual ex-vessel value, price and percent of statewide value in the commercial Pacific halibut fisheries off Alaska, 2017-2021, (\$ millions and \$/lb net weight).

| Port | | 2017 | 2018 | 2019 | 2020 | 2021 |
|---------------------|--------------|-------|-------|-------|-------|-------|
| Ex-Vessel Value | Homer | 12.38 | 13.27 | 15.07 | 12.99 | 25.62 |
| | Seward | 13.23 | 13.20 | 11.82 | 5.94 | 15.44 |
| | Kodiak | 17.88 | 11.07 | 10.35 | 7.59 | 13.11 |
| | Akutan | * | * | * | * | * |
| | Juneau | 4.04 | 5.48 | * | 5.92 | 9.79 |
| | Sitka | * | 6.55 | 7.35 | 5.16 | 8.74 |
| | Yakutat | * | * | * | * | * |
| | Petersburg | 9.47 | 6.56 | 6.43 | 4.25 | 7.77 |
| | Dutch Harbor | * | * | * | * | * |
| St Paul Island | * | * | 3.23 | * | * | |
| Price | Homer | 5.82 | 5.34 | 5.43 | 4.15 | 7.11 |
| | Seward | 5.79 | 5.14 | 5.40 | 4.45 | 6.93 |
| | Kodiak | 5.59 | 4.95 | 4.80 | 3.88 | 6.32 |
| | Akutan | * | * | * | * | * |
| | Juneau | 6.01 | 5.10 | * | 4.03 | 6.48 |
| | Sitka | * | 5.21 | 5.54 | 4.21 | 6.24 |
| | Yakutat | * | * | * | * | * |
| | Petersburg | 5.93 | 4.86 | 4.98 | 4.17 | 6.28 |
| | Dutch Harbor | * | * | * | * | * |
| St Paul Island | * | * | 3.92 | * | * | |
| Percent State Value | Homer | 11 % | 15 % | 16 % | 18 % | 20 % |
| | Seward | 12 % | 15 % | 12 % | 8 % | 12 % |
| | Kodiak | 16 % | 12 % | 11 % | 11 % | 10 % |
| | Akutan | * | * | * | * | * |
| | Juneau | 4 % | 6 % | * | 8 % | 8 % |
| | Sitka | * | 7 % | 8 % | 7 % | 7 % |
| | Yakutat | * | * | * | * | * |
| | Petersburg | 9 % | 7 % | 7 % | 6 % | 6 % |
| | Dutch Harbor | * | * | * | * | * |
| St Paul Island | * | * | 3 % | * | * | |
| Rank | Homer | 3 | 1 | 1 | 1 | 1 |
| | Seward | 2 | 2 | 2 | 4 | 2 |
| | Kodiak | 1 | 3 | 3 | 3 | 3 |
| | Akutan | 11 | 13 | 15 | 8 | 4 |
| | Juneau | 8 | 7 | 5 | 5 | 5 |
| | Sitka | 6 | 5 | 4 | 6 | 6 |
| | Yakutat | 9 | 8 | 7 | 9 | 7 |
| | Petersburg | 4 | 4 | 6 | 7 | 8 |
| | Dutch Harbor | 5 | 6 | 8 | 2 | 9 |
| St Paul Island | 10 | 11 | 10 | 25 | 27 | |

Note Displays only the 10 Alaska ports of landing with the highest average ex-vessel value over the last 5 years. Values and prices are for catch from all Alaska commercial fisheries (including CDQ). Price is calculated as landed value divided by net weight. Net weight is dressed, head-off, slime and ice deducted. Values are not adjusted for inflation. '*' indicates a confidential value; '-' indicates no applicable data or value.

Source ADF&G fish tickets; CFEC gross earnings (fish tickets) file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.52: First wholesale production volume, value and price in the commercial Pacific halibut fisheries off Alaska by product, 2017-2021, (1000s of metric tons, \$ millions and \$/lb net weight, respectively).

| | Year | Product | Price | Quantity | Value |
|----------------|------|---------|-------|----------|--------|
| Head And Gut | 2017 | | 7.39 | 5.64 | 91.86 |
| | 2018 | | 6.84 | 5.01 | 75.59 |
| | 2019 | | 6.37 | 5.07 | 71.12 |
| | 2020 | | 5.75 | 3.42 | 43.34 |
| | 2021 | | 8.35 | 5.27 | 97.07 |
| Fillet | 2017 | | 13.65 | 1.40 | 42.05 |
| | 2018 | | 12.92 | 1.16 | 33.17 |
| | 2019 | | 11.44 | 1.38 | 34.76 |
| | 2020 | | 10.26 | 1.70 | 38.47 |
| | 2021 | | 14.45 | 1.65 | 52.64 |
| Other Products | 2017 | | 2.68 | 0.46 | 2.74 |
| | 2018 | | 2.39 | 0.33 | 1.73 |
| | 2019 | | 1.92 | 0.66 | 2.80 |
| | 2020 | | 1.64 | 0.50 | 1.81 |
| | 2021 | | 2.32 | 0.61 | 3.12 |
| All Products | 2017 | | 8.27 | 7.50 | 136.64 |
| | 2018 | | 7.71 | 6.50 | 110.50 |
| | 2019 | | 6.94 | 7.11 | 108.69 |
| | 2020 | | 6.75 | 5.62 | 83.62 |
| | 2021 | | 9.20 | 7.53 | 152.84 |

Note Landings, values and prices for catch from all Alaska commercial fisheries (including CDQ). Price is calculated as landed value divided by net weight. Net weight is dressed, head-off, slime and ice deducted. Values are not adjusted for inflation. '*' indicates a confidential value; '-' indicates no applicable data or value.

Source NMFS Alaska Region Production Reports. ADF&G Commercial Operators Annual Reports (COAR). Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.53: Number of vessels catching Pacific halibut commercially off Alaska and median vessel length by region and vessel length class, 2017-2021.

| Class | Year | Gulf of Alaska | | Bering Sea and Aleutian Islands | | All Alaska | |
|-------|------|----------------|---------------|---------------------------------|---------------|------------|---------------|
| | | Vessels | Median Length | Vessels | Median Length | Vessels | Median Length |
| <20 | 2017 | 13 | 18 | 9 | 18 | 22 | 18 |
| | 2018 | 13 | 17 | 7 | 18 | 20 | 18 |
| | 2019 | 16 | 18 | 11 | 18 | 27 | 18 |
| | 2020 | 7 | 18 | 10 | 18 | 17 | 18 |
| | 2021 | 14 | 18 | 7 | 18 | 21 | 18 |
| 20-29 | 2017 | 95 | 25 | 29 | 28 | 123 | 26 |
| | 2018 | 82 | 26 | 26 | 28 | 107 | 27 |
| | 2019 | 88 | 26 | 26 | 28 | 113 | 27 |
| | 2020 | 79 | 26 | 7 | 28 | 86 | 26 |
| | 2021 | 71 | 26 | 8 | 28 | 79 | 26 |
| 30-39 | 2017 | 251 | 34 | 34 | 32 | 275 | 33 |
| | 2018 | 248 | 34 | 37 | 32 | 270 | 34 |
| | 2019 | 257 | 34 | 36 | 32 | 281 | 33 |
| | 2020 | 230 | 34 | 23 | 32 | 241 | 34 |
| | 2021 | 233 | 34 | 19 | 32 | 242 | 34 |
| 40-49 | 2017 | 269 | 45 | 16 | 48 | 272 | 45 |
| | 2018 | 271 | 45 | 17 | 48 | 275 | 45 |
| | 2019 | 248 | 45 | 14 | 48 | 253 | 45 |
| | 2020 | 250 | 45 | 15 | 48 | 255 | 45 |
| | 2021 | 236 | 45 | 11 | 48 | 239 | 45 |
| 50-59 | 2017 | 132 | 58 | 25 | 58 | 132 | 58 |
| | 2018 | 131 | 58 | 24 | 58 | 133 | 58 |
| | 2019 | 126 | 58 | 23 | 58 | 127 | 58 |
| | 2020 | 120 | 58 | 19 | 58 | 122 | 58 |
| | 2021 | 123 | 58 | 21 | 58 | 125 | 58 |
| ≥60 | 2017 | 39 | 73 | 17 | 76 | 42 | 74 |
| | 2018 | 41 | 72 | 17 | 76 | 44 | 73 |
| | 2019 | 40 | 72 | 18 | 76 | 43 | 74 |
| | 2020 | 37 | 73 | 17 | 76 | 40 | 74 |
| | 2021 | 35 | 74 | 16 | 75 | 38 | 74 |

Note Excludes vessels in the Annette Island commercial Pacific halibut fishery. "*" indicates a confidential value; "-" indicates no applicable data or value.

Source ADF&G fish tickets; CFEC gross earnings (fish tickets) file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.54: Total vessel days fishing Pacific halibut commercially off Alaska by area, 2017-2021.

| Year | Gulf Of Alaska | Bering Sea And Aleutian Islands | All Alaska |
|------|----------------|---------------------------------|------------|
| 2017 | 12,425 | 2,797 | 14,828 |
| 2018 | 12,792 | 2,646 | 15,106 |
| 2019 | 12,960 | 3,220 | 15,745 |
| 2020 | 12,252 | 2,384 | 14,239 |
| 2021 | 13,572 | 2,060 | 15,221 |

Note Excludes vessels in the Annette Island commercial Pacific halibut fishery; "*" indicates a confidential value; "-" indicates no applicable data or value.

Source ADF&G fish tickets; CFEC gross earnings (fish tickets) file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Table 4.55: Crew days fishing Pacific halibut commercially off Alaska by month and area, 2017-2021.

| Area | Year | Mar-Apr | May | Jun | Jul | Aug | Sep | Oct | Nov |
|--|------|---------|--------|-------|-------|-------|-------|-------|-------|
| Gulf Of Alaska | 2017 | 9,296 | 8,904 | 5,534 | 3,581 | 5,290 | 6,209 | 4,566 | 646 |
| | 2018 | 8,738 | 8,359 | 5,735 | 4,000 | 6,287 | 6,756 | 4,699 | 1,102 |
| | 2019 | 10,090 | 8,244 | 5,040 | 3,816 | 5,450 | 5,832 | 5,208 | 1,615 |
| | 2020 | 4,917 | 6,497 | 4,588 | 4,225 | 5,479 | 6,584 | 6,293 | 1,969 |
| | 2021 | 7,686 | 6,938 | 5,120 | 4,305 | 5,443 | 5,650 | 5,567 | 3,364 |
| Bering Sea And Aleutian Islands | 2017 | 346 | 1,384 | 2,091 | 1,891 | 2,857 | 1,540 | 1,104 | 192 |
| | 2018 | 455 | 1,270 | 1,456 | 2,044 | 2,986 | 1,766 | 679 | 105 |
| | 2019 | 864 | 1,566 | 1,927 | 2,376 | 2,577 | 1,986 | 950 | 260 |
| | 2020 | 722 | 1,047 | 1,284 | 1,350 | 2,541 | 1,888 | 735 | 45 |
| | 2021 | 294 | 873 | 1,119 | 1,271 | 1,986 | 1,864 | 1,086 | 423 |
| All Alaska | 2017 | 9,569 | 10,121 | 7,499 | 5,332 | 7,609 | 7,459 | 5,362 | 838 |
| | 2018 | 9,121 | 9,402 | 7,027 | 5,931 | 8,845 | 8,307 | 5,351 | 1,157 |
| | 2019 | 10,857 | 9,635 | 6,863 | 5,938 | 7,727 | 7,289 | 5,893 | 1,835 |
| | 2020 | 5,603 | 7,397 | 5,713 | 5,495 | 7,564 | 8,011 | 6,824 | 2,011 |
| | 2021 | 7,956 | 7,791 | 6,120 | 5,305 | 7,155 | 7,086 | 6,352 | 3,513 |

Note Excludes vessels in the Annette Island commercial Pacific halibut fishery because crew size is not reported for this fishery. Minimal fishing occurs in March and to ensure confidentiality it is combined with April. '*' indicates a confidential value; '-' indicates no applicable data or value.

Source ADF&G fish tickets; CFEC gross earnings (fish tickets) file. Data compiled and provided by the Alaska Fisheries Information Network (AKFIN). National Marine Fisheries Service, P.O. Box 15700, Seattle, WA 98115-0070.

Chapter 5

Economic Performance Indices for the North Pacific Groundfish Fisheries

5.1 Introduction

Fisheries markets are complex. A multitude of factors influence demand, supply, price, catch composition, product types produced and other 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 (such as a change in TAC), 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 the Bering Sea and Aleutian Island (BSAI) at-sea, the BSAI shoreside, and the Gulf of Alaska (GOA). Figure 5.1 displays the ex-vessel and first-wholesale values for the BSAI and GOA at-sea and shoreside sectors. For the BSAI at-sea sector, index analysis will focus on the wholesale market; for the BSAI shoreside and GOA sectors, index analysis will consider 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 the composition of species within product types and the composition of product type for a given species, and in the ex-vessel market, they show composition of species harvested by a given gear type and the composition of gear types used to harvest a species.

Aggregate indices, by their very nature, cumulate over the many species, products types, and gear types in 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 the prices of all 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 all 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 the 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.

The primary tools we will use to analyze market performance are Figures 5.2-5.11. The index figures in Figures 5.2-5.11 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 2019 as the base year for the index. All calculations and statistics are made using nominal U.S. dollars (i.e., not adjusted for inflation).¹ 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. The relevance of a change in the price index in year t is calculated by $(year - on - year\ growth\ rate) * (share\ weight) = (I_{i,t}/I_{i,t-1} - 1) * \tilde{w}(i, t)$ where $I_{i,t}$ is the level of the index and $\tilde{w}(i, t) = \frac{p_{i,t} * q_{i,t}}{\sum_j p_{j,t} * q_{j,t}}$ is the year t value share and i, j enumerates species, products, or gear types depending on the index. When the value $(year - on - year\ growth\ rate) * (share\ weight)$ 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. 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 factor (e.g., species) as measured by production. 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. Ex-vessel indices are constructed using catch that is counted against a federal total allowable catch (TAC). 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”. The “other” product type contains all products that are not fillets, H&G, surimi, meal and oil, or roe. In particular, the “other” product type include whole fish and minced fish. % which have been broken out in years past.

Understanding the indices and their construction facilitates accurate interpretation. To properly

¹U.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.

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 opposite. 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. The indices are displayed graphically in Section 5.2 followed by tables with the index values.

5.2 Economic Indices of the Groundfish Fisheries

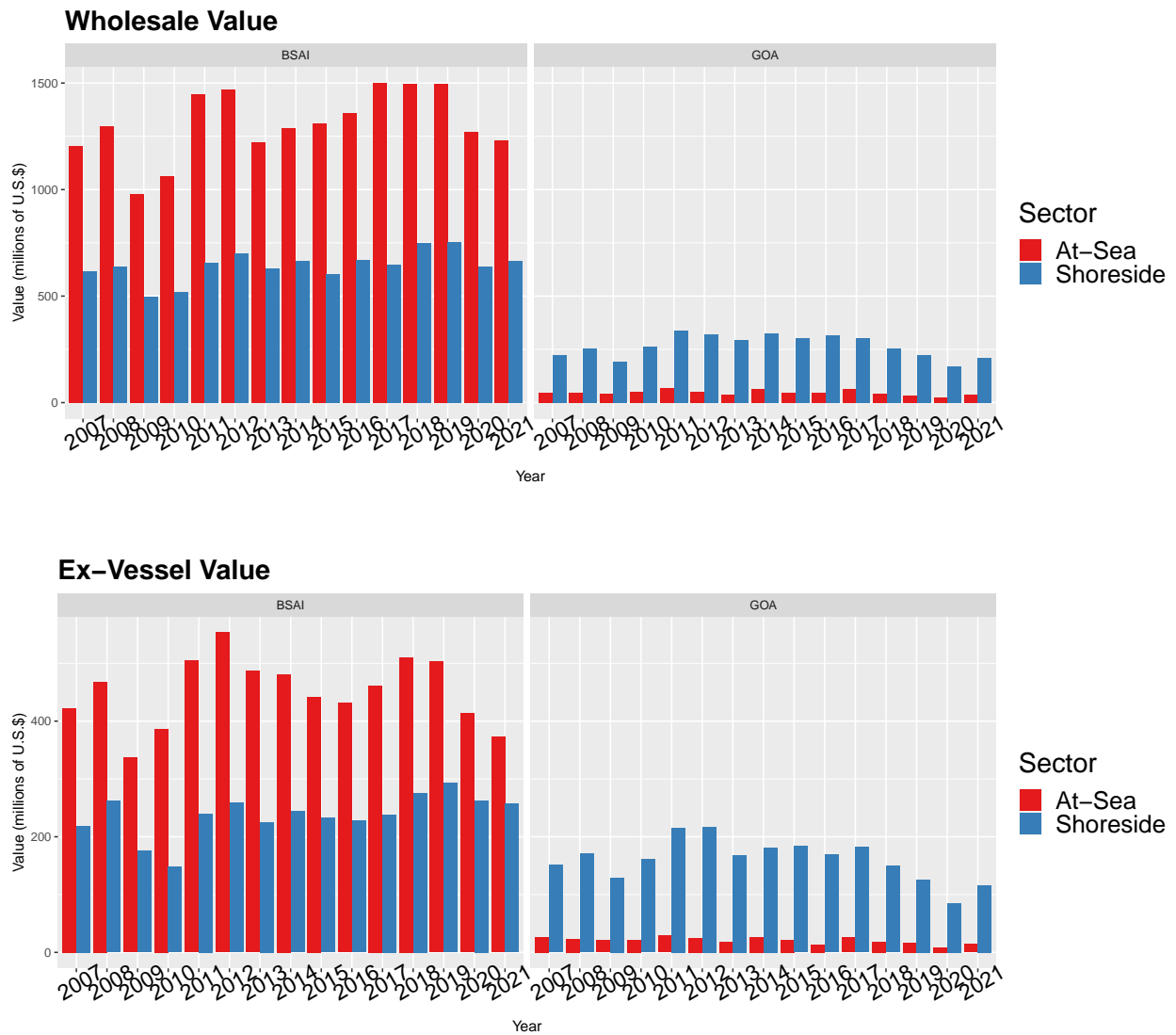


Figure 5.1: Wholesale and ex-vessel value by region and sector 2007 - 2021 .
Source NMFS Alaska Region's Catch-accounting system (CAS) and Weekly Production Report (WPR) estimates; Alaska Department of Fish and Game (ADF&G) Commercial Operator's Annual Report (COAR), National Marine Fisheries Service. P.O. Box 15700, Seattle, WA 98115-0070.

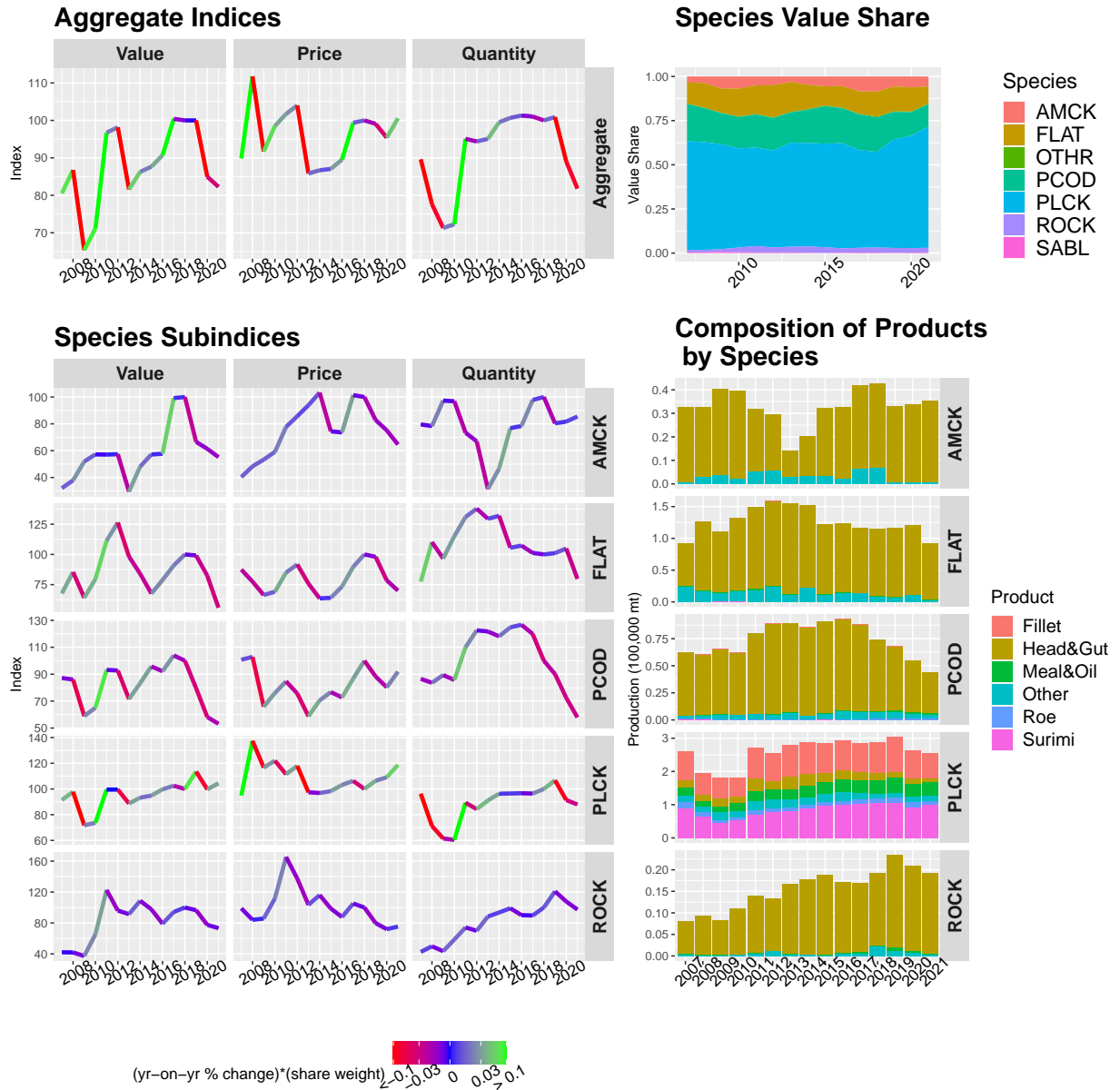


Figure 5.2: BSAI at-sea wholesale market: species decomposition 2007 - 2021 (Index 2019 = 100).

Notes Index values for 2016- 2021, 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 for details.

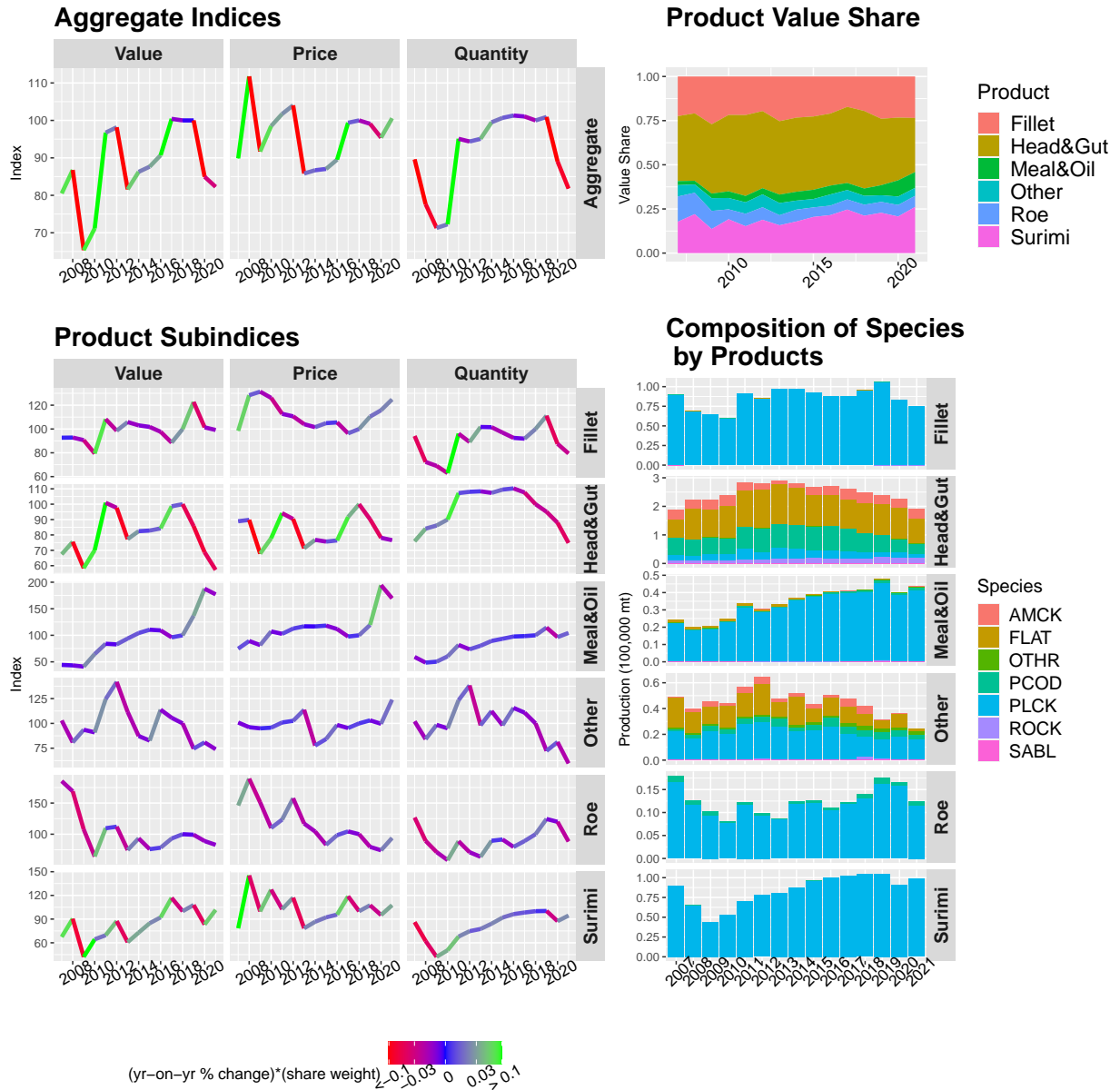


Figure 5.3: BSAI at-sea wholesale market: species decomposition 2007 - 2021 (Index 2019 = 100).

Notes Index values for 2016-2021, 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 for details.

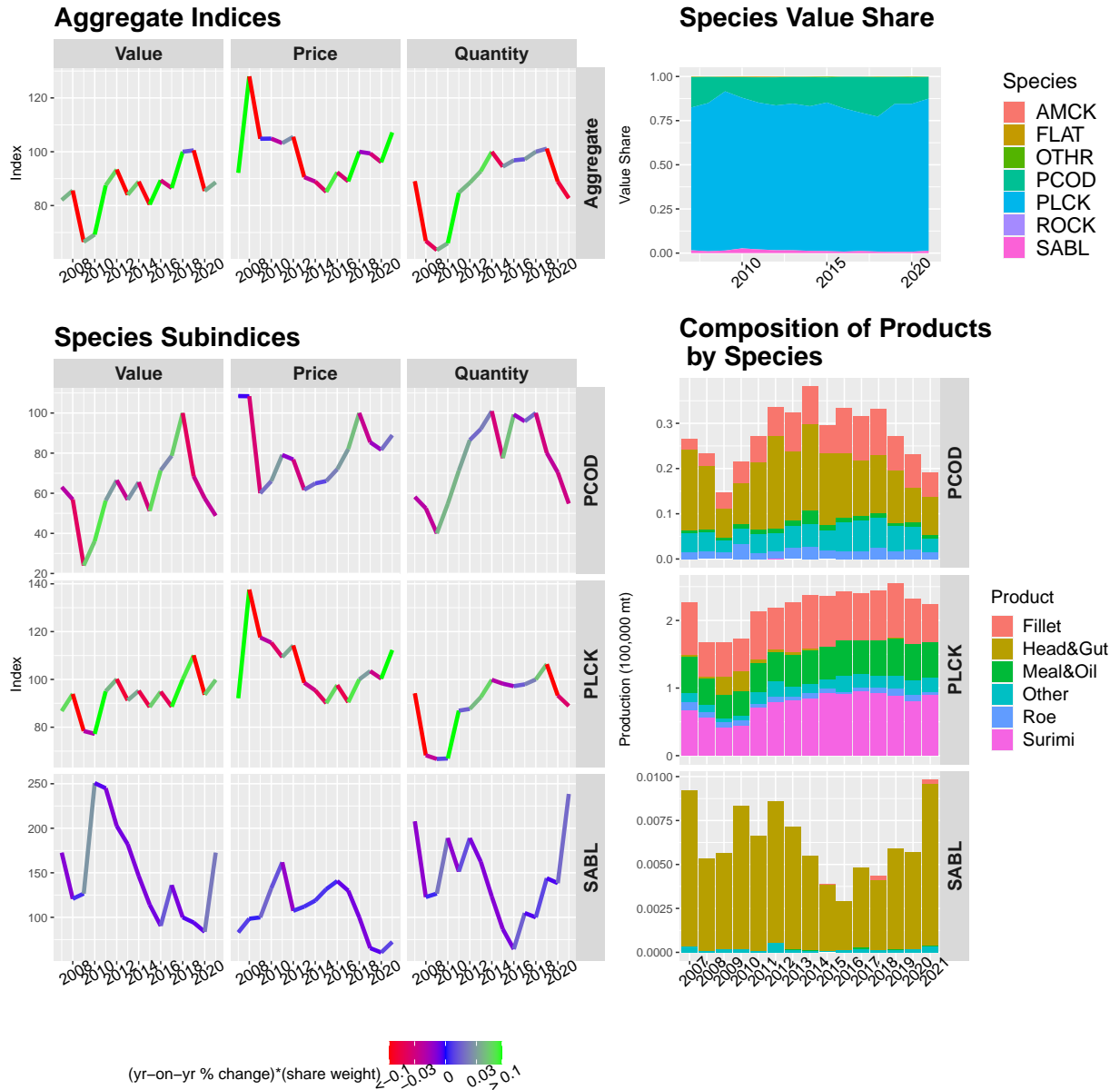


Figure 5.4: BSAI shoreside wholesale market: species decomposition 2007 - 2021 (Index 2019 = 100).

Notes Index values for 2016-2021, 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 for details.

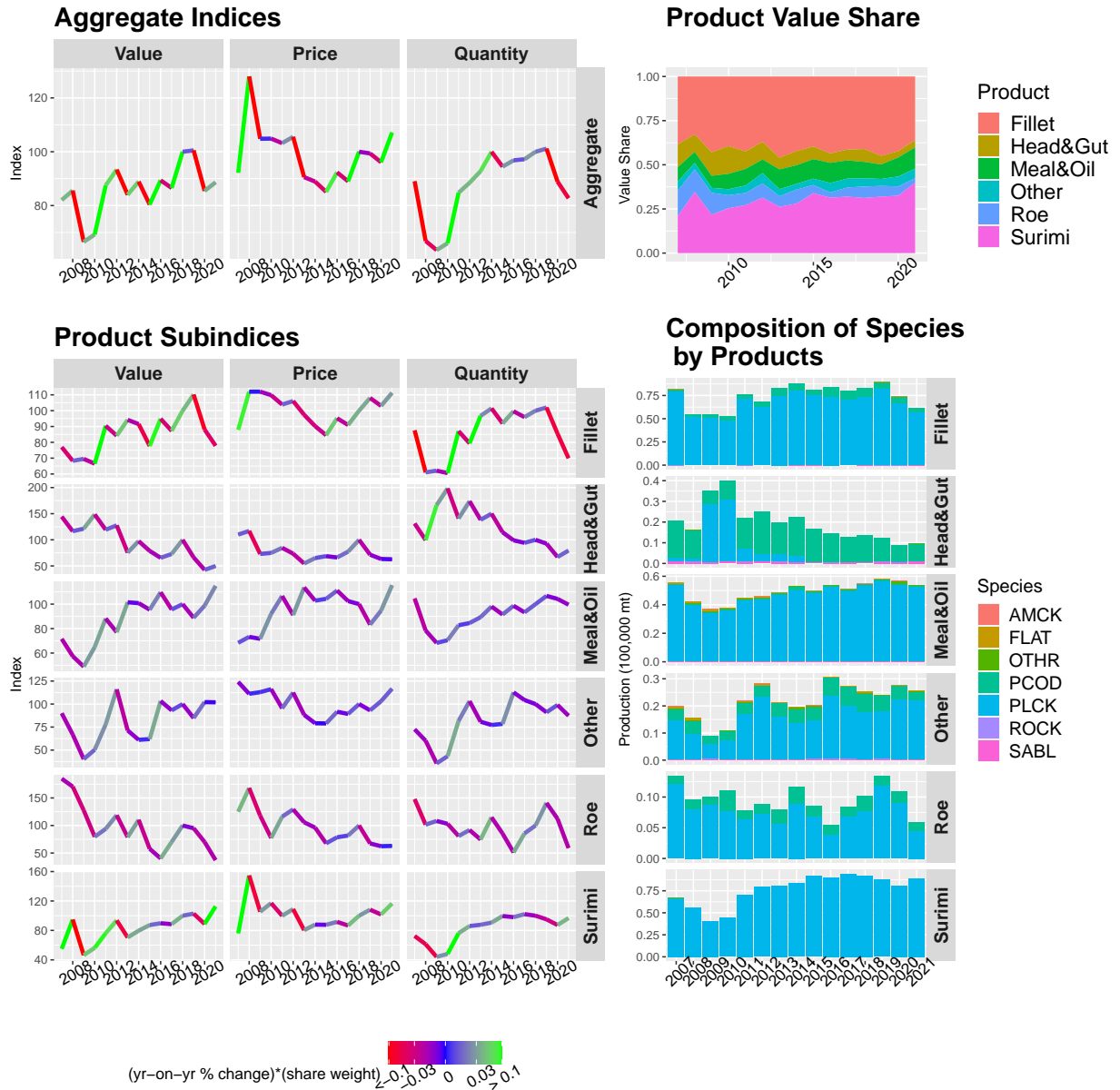


Figure 5.5: BSAI shoreside wholesale market: product decomposition 2007 - 2021 (Index 2019 = 100).

Notes Index values for 2016-2021, 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 for details.

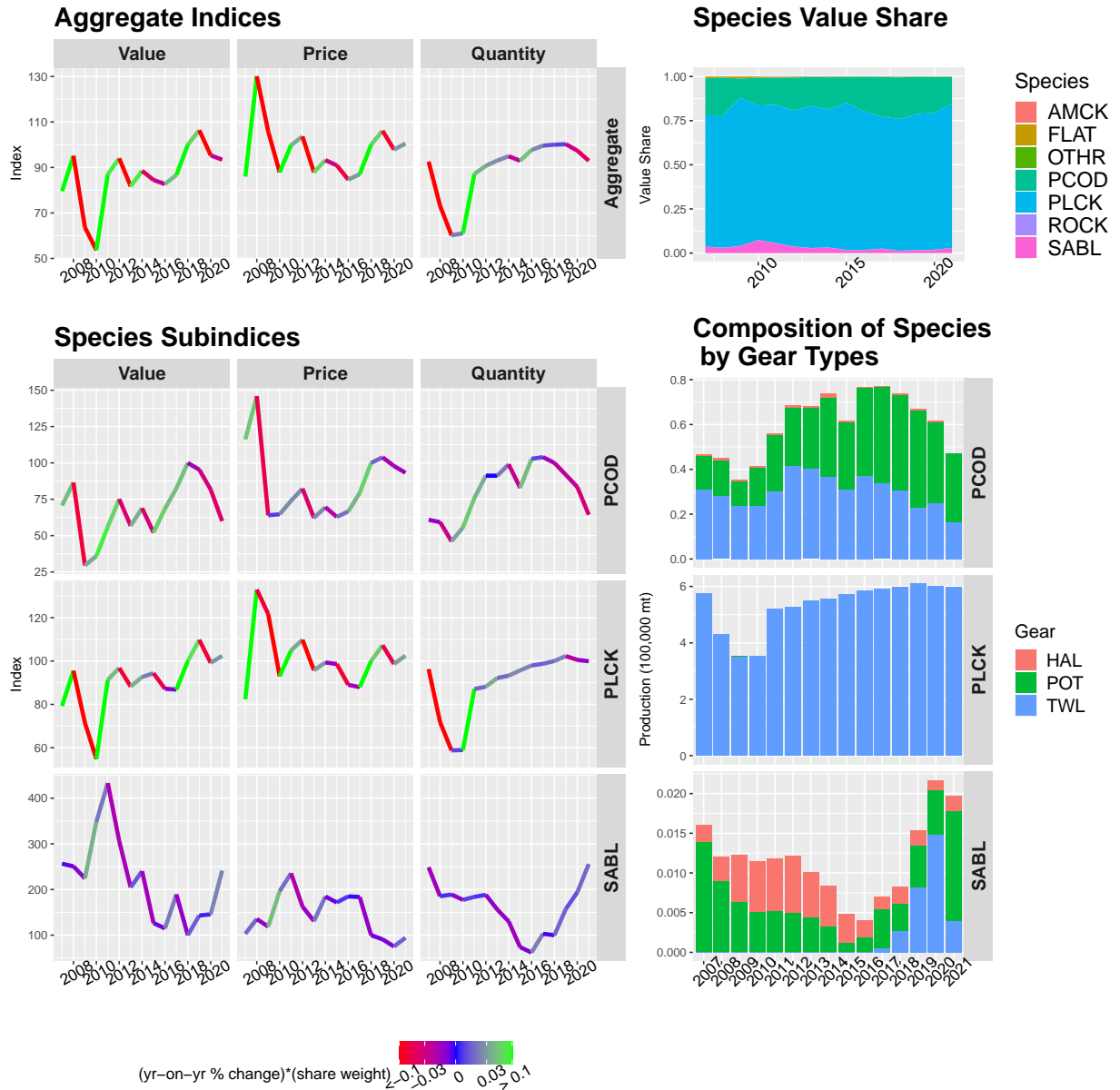


Figure 5.6: BSAI shoreside ex-vessel market: species decomposition 2007 - 2021 (Index 2019 = 100).

Notes Index values for 2016-2021, 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 for details.



Figure 5.7: BSAI shoreside ex-vessel market: gear decomposition 2007 - 2021 (Index 2019 = 100).

Notes Index values for 2016-2021, 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 for details.

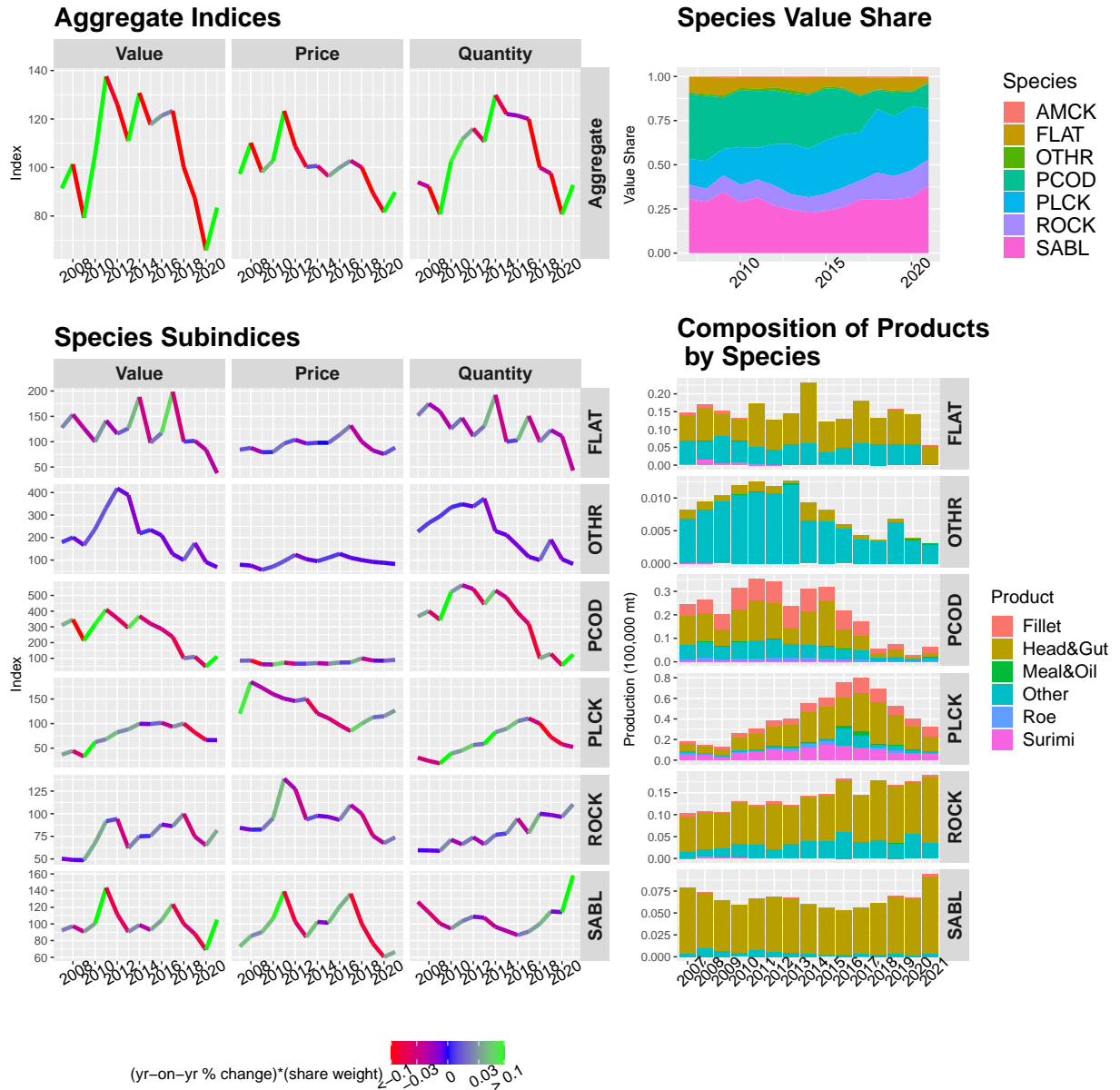


Figure 5.8: GOA wholesale market: species decomposition 2007 - 2021 (Index 2019 = 100).

Notes Index values for 2016- 2021, 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 for details.

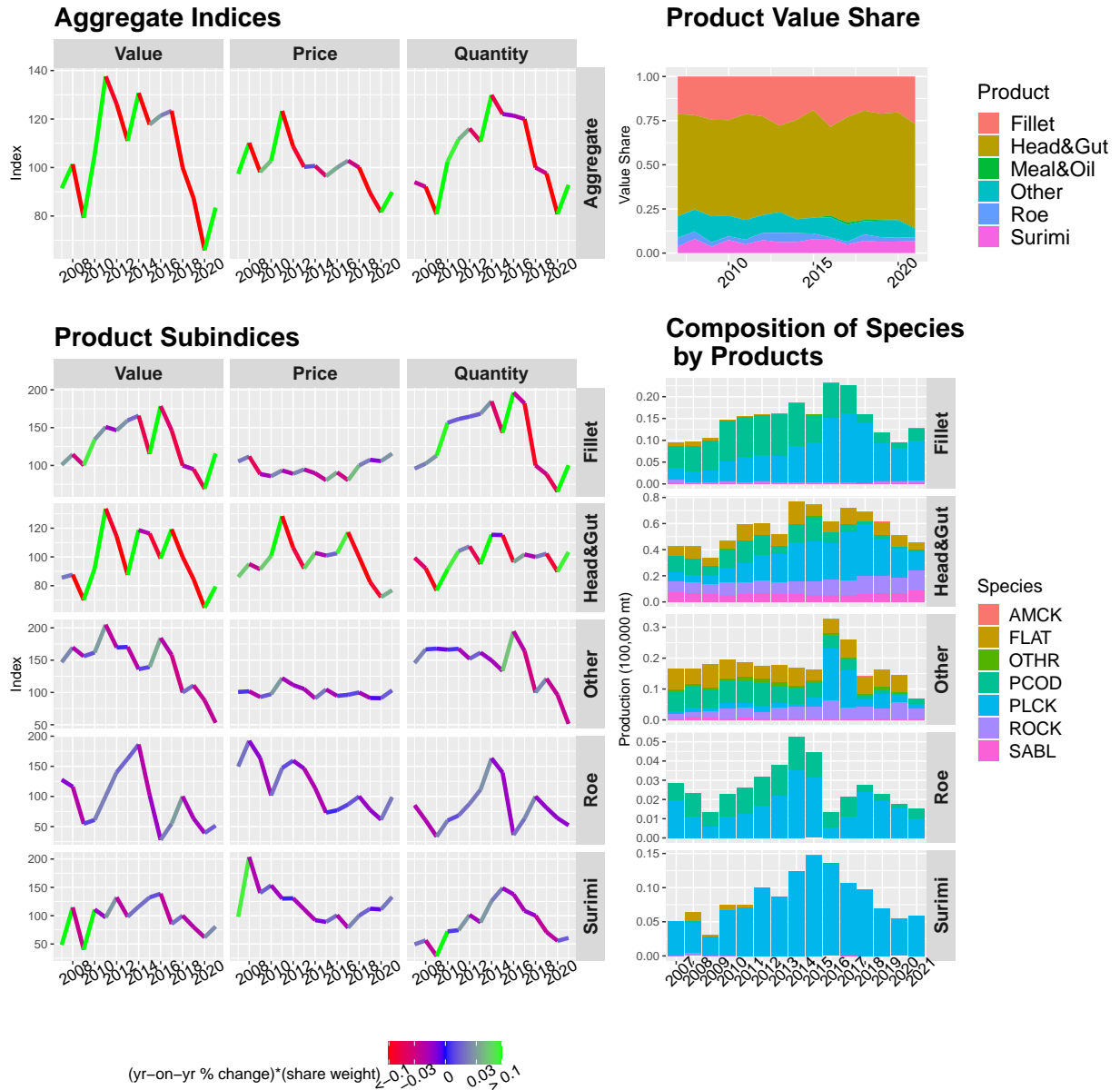


Figure 5.9: GOA wholesale market: product decomposition 2007 - 2021 (Index 2019 = 100).

Notes Index values for 2016- 2021, 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 for details.

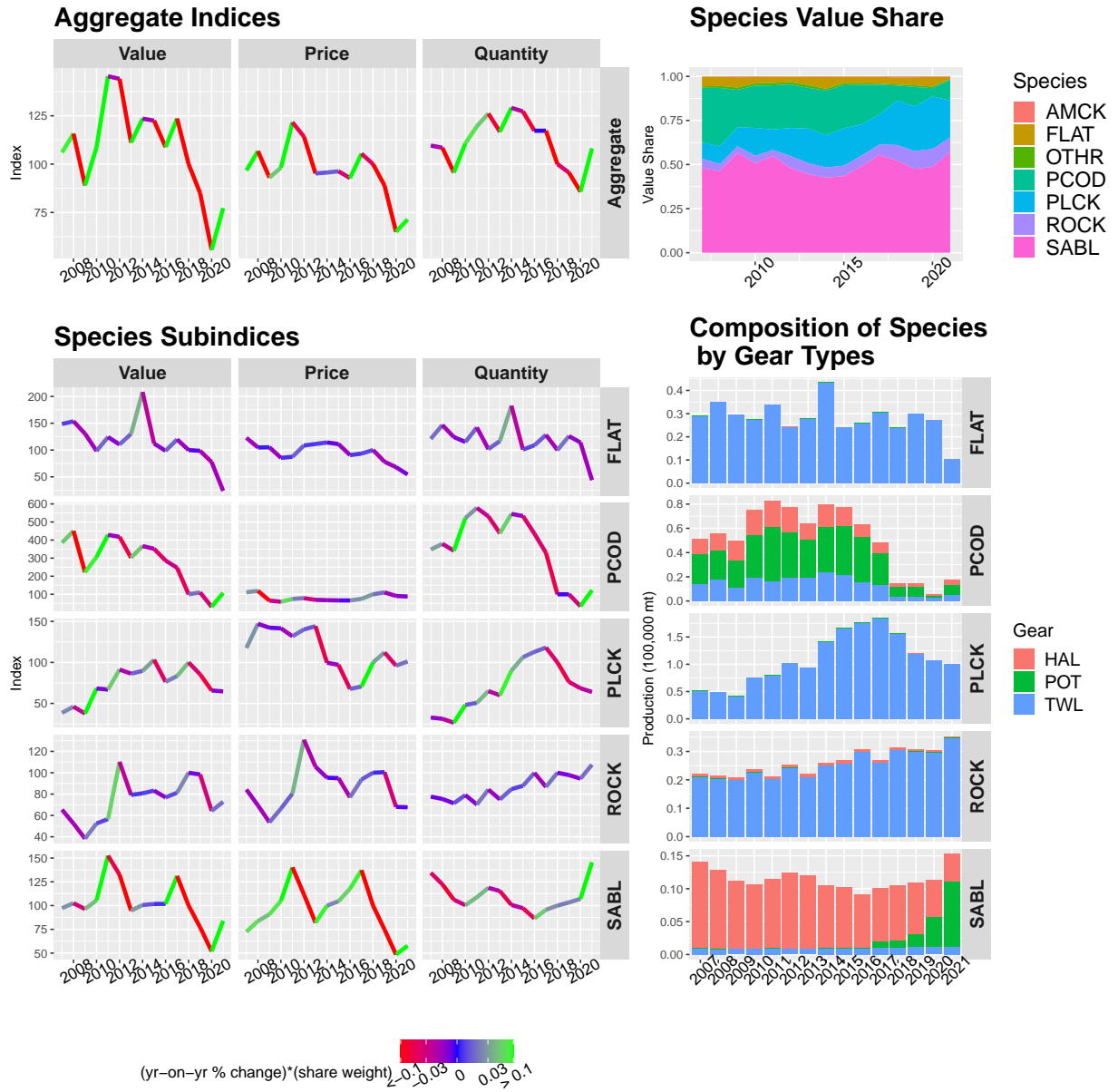


Figure 5.10: GOA ex-vessel market: species decomposition 2007 - 2021 (Index 2019 = 100).

Notes Index values for 2016- 2021, 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 for details.



Figure 5.11: GOA ex-vessel market: gear decomposition 2007 - 2021 (Index 2019 = 100).

Notes Index values for 2016- 2021, 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 for details.

Table 5.1: Species indices and value share for the BSAI at-sea first-wholesale market 2016-2021

| Species | Index Type | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|-----------|-------------|--------|--------|--------|--------|--------|--------|
| Aggregate | Value | 90.71 | 100.42 | 100.00 | 100.00 | 84.96 | 82.27 |
| | Price | 89.54 | 99.37 | 100.00 | 99.10 | 95.39 | 100.57 |
| | Quantity | 101.31 | 101.05 | 100.00 | 100.91 | 89.07 | 81.80 |
| AMCK | Value | 57.71 | 99.17 | 100.00 | 66.57 | 61.38 | 55.21 |
| | Price | 73.60 | 101.42 | 100.00 | 82.85 | 75.15 | 64.61 |
| | Quantity | 78.40 | 97.78 | 100.00 | 80.35 | 81.67 | 85.44 |
| | Value Share | 0.05 | 0.08 | 0.09 | 0.06 | 0.06 | 0.06 |
| FLAT | Value | 78.81 | 90.90 | 100.00 | 99.13 | 82.41 | 55.93 |
| | Price | 73.44 | 89.77 | 100.00 | 98.06 | 78.53 | 70.06 |
| | Quantity | 107.32 | 101.25 | 100.00 | 101.09 | 104.94 | 79.84 |
| | Value Share | 0.12 | 0.13 | 0.14 | 0.14 | 0.14 | 0.10 |
| PCOD | Value | 92.19 | 103.95 | 100.00 | 79.58 | 58.17 | 53.17 |
| | Price | 72.75 | 86.69 | 100.00 | 88.34 | 80.25 | 91.85 |
| | Quantity | 126.72 | 119.91 | 100.00 | 90.08 | 72.49 | 57.89 |
| | Value Share | 0.20 | 0.20 | 0.19 | 0.16 | 0.13 | 0.13 |
| PLCK | Value | 99.72 | 102.50 | 100.00 | 113.55 | 99.73 | 104.39 |
| | Price | 103.15 | 106.31 | 100.00 | 106.38 | 109.09 | 118.73 |
| | Quantity | 96.68 | 96.42 | 100.00 | 106.73 | 91.41 | 87.92 |
| | Value Share | 0.60 | 0.55 | 0.54 | 0.62 | 0.64 | 0.69 |
| ROCK | Value | 79.02 | 94.22 | 100.00 | 96.49 | 77.49 | 73.29 |
| | Price | 87.67 | 105.16 | 100.00 | 79.84 | 71.91 | 75.29 |
| | Quantity | 90.13 | 89.60 | 100.00 | 120.86 | 107.76 | 97.33 |
| | Value Share | 0.03 | 0.03 | 0.03 | 0.03 | 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 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.

Table 5.2: Product indices and value share for the BSAI at-sea first-wholesale market 2016-2021

| Product | Index Type | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|-----------|-------------|--------|--------|--------|--------|--------|--------|
| Aggregate | Value | 90.71 | 100.42 | 100.00 | 100.00 | 84.96 | 82.27 |
| | Price | 89.54 | 99.37 | 100.00 | 99.10 | 95.39 | 100.57 |
| | Quantity | 101.31 | 101.05 | 100.00 | 100.91 | 89.07 | 81.80 |
| Fillet | Value | 97.64 | 88.52 | 100.00 | 122.70 | 101.38 | 99.18 |
| | Price | 105.53 | 96.34 | 100.00 | 110.40 | 115.77 | 124.84 |
| | Quantity | 92.53 | 91.89 | 100.00 | 111.14 | 87.57 | 79.44 |
| | Value Share | 0.21 | 0.17 | 0.20 | 0.24 | 0.23 | 0.24 |
| Head&Gut | Value | 84.26 | 98.61 | 100.00 | 85.67 | 68.70 | 57.29 |
| | Price | 76.42 | 91.64 | 100.00 | 90.14 | 78.14 | 76.60 |
| | Quantity | 110.25 | 107.61 | 100.00 | 95.04 | 87.92 | 74.80 |
| | Value Share | 0.41 | 0.43 | 0.44 | 0.38 | 0.35 | 0.31 |
| Meal&Oil | Value | 109.22 | 96.13 | 100.00 | 136.97 | 187.74 | 177.17 |
| | Price | 111.77 | 97.62 | 100.00 | 119.54 | 194.41 | 169.66 |
| | Quantity | 97.72 | 98.48 | 100.00 | 114.57 | 96.57 | 104.43 |
| | Value Share | 0.05 | 0.04 | 0.04 | 0.06 | 0.09 | 0.09 |
| Other | Value | 113.81 | 105.67 | 100.00 | 74.55 | 80.88 | 73.98 |
| | Price | 98.43 | 95.31 | 100.00 | 103.05 | 99.62 | 123.86 |
| | Quantity | 115.62 | 110.86 | 100.00 | 72.35 | 81.18 | 59.73 |
| | Value Share | 0.06 | 0.05 | 0.05 | 0.04 | 0.05 | 0.05 |
| Roe | Value | 78.39 | 93.06 | 100.00 | 99.13 | 88.98 | 82.94 |
| | Price | 98.50 | 104.47 | 100.00 | 79.64 | 74.22 | 93.90 |
| | Quantity | 79.59 | 89.07 | 100.00 | 124.46 | 119.89 | 88.32 |
| | Value Share | 0.05 | 0.06 | 0.06 | 0.06 | 0.07 | 0.06 |
| Surimi | Value | 92.18 | 116.89 | 100.00 | 107.84 | 83.16 | 101.63 |
| | Price | 95.72 | 118.90 | 100.00 | 107.52 | 95.14 | 107.59 |
| | Quantity | 96.31 | 98.31 | 100.00 | 100.30 | 87.41 | 94.46 |
| | Value Share | 0.22 | 0.25 | 0.21 | 0.23 | 0.21 | 0.26 |

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 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.

Table 5.3: Species indices and value share for the BSAI shoreside first-wholesale market 2016-2021

| Species | Index Type | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|-----------|-------------|--------|--------|--------|--------|--------|--------|
| Aggregate | Value | 89.38 | 86.54 | 100.00 | 100.51 | 85.46 | 88.65 |
| | Price | 92.33 | 89.01 | 100.00 | 99.37 | 96.11 | 107.15 |
| | Quantity | 96.81 | 97.22 | 100.00 | 101.15 | 88.93 | 82.73 |
| PCOD | Value | 71.46 | 78.72 | 100.00 | 68.44 | 57.48 | 48.82 |
| | Price | 72.01 | 82.10 | 100.00 | 85.42 | 81.66 | 88.95 |
| | Quantity | 99.25 | 95.89 | 100.00 | 80.12 | 70.39 | 54.88 |
| | Value Share | 0.18 | 0.20 | 0.22 | 0.15 | 0.15 | 0.12 |
| PLCK | Value | 94.86 | 88.60 | 100.00 | 110.06 | 93.60 | 99.81 |
| | Price | 97.62 | 90.48 | 100.00 | 103.47 | 100.33 | 112.26 |
| | Quantity | 97.18 | 97.93 | 100.00 | 106.38 | 93.30 | 88.91 |
| | Value Share | 0.81 | 0.78 | 0.76 | 0.84 | 0.84 | 0.86 |
| SABL | Value | 90.46 | 136.09 | 100.00 | 94.09 | 83.72 | 172.59 |
| | Price | 140.76 | 129.86 | 100.00 | 65.40 | 60.51 | 72.36 |
| | Quantity | 64.27 | 104.80 | 100.00 | 143.88 | 138.36 | 238.53 |
| | Value Share | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 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 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.

Table 5.4: Product indices and value share for the BSAI shoreside first-wholesale market 2016-2021

| Product | Index Type | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|-----------|-------------|--------|--------|--------|--------|--------|--------|
| Aggregate | Value | 89.38 | 86.54 | 100.00 | 100.51 | 85.46 | 88.65 |
| | Price | 92.33 | 89.01 | 100.00 | 99.37 | 96.11 | 107.15 |
| | Quantity | 96.81 | 97.22 | 100.00 | 101.15 | 88.93 | 82.73 |
| Fillet | Value | 94.85 | 87.23 | 100.00 | 110.17 | 88.08 | 77.82 |
| | Price | 95.21 | 90.95 | 100.00 | 108.03 | 103.00 | 111.25 |
| | Quantity | 99.62 | 95.91 | 100.00 | 101.98 | 85.51 | 69.95 |
| | Value Share | 0.44 | 0.41 | 0.41 | 0.45 | 0.42 | 0.36 |
| Head&Gut | Value | 65.53 | 72.83 | 100.00 | 66.27 | 42.50 | 49.80 |
| | Price | 66.17 | 77.29 | 100.00 | 71.51 | 63.35 | 62.70 |
| | Quantity | 99.02 | 94.23 | 100.00 | 92.67 | 67.09 | 79.42 |
| | Value Share | 0.05 | 0.06 | 0.07 | 0.05 | 0.04 | 0.04 |
| Meal&Oil | Value | 109.68 | 95.62 | 100.00 | 88.86 | 98.71 | 114.96 |
| | Price | 111.12 | 102.49 | 100.00 | 83.26 | 94.66 | 115.50 |
| | Quantity | 98.70 | 93.29 | 100.00 | 106.73 | 104.28 | 99.53 |
| | Value Share | 0.11 | 0.10 | 0.09 | 0.08 | 0.11 | 0.12 |
| Other | Value | 103.30 | 93.14 | 100.00 | 84.81 | 102.12 | 101.88 |
| | Price | 91.65 | 89.27 | 100.00 | 93.14 | 103.08 | 116.68 |
| | Quantity | 112.71 | 104.33 | 100.00 | 91.05 | 99.06 | 87.32 |
| | Value Share | 0.05 | 0.05 | 0.05 | 0.04 | 0.06 | 0.05 |
| Roe | Value | 40.17 | 70.07 | 100.00 | 95.02 | 70.03 | 37.13 |
| | Price | 78.62 | 81.78 | 100.00 | 67.42 | 62.37 | 62.89 |
| | Quantity | 51.10 | 85.68 | 100.00 | 140.93 | 112.29 | 59.04 |
| | Value Share | 0.03 | 0.05 | 0.06 | 0.06 | 0.05 | 0.03 |
| Surimi | Value | 89.76 | 88.51 | 100.00 | 102.78 | 88.81 | 112.72 |
| | Price | 91.60 | 86.66 | 100.00 | 108.18 | 101.69 | 116.50 |
| | Quantity | 97.99 | 102.14 | 100.00 | 95.01 | 87.34 | 96.76 |
| | Value Share | 0.31 | 0.32 | 0.31 | 0.32 | 0.32 | 0.40 |

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 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.

Table 5.5: Species indices and value share for the BSAI shoreside ex-vessel market 2016-2021

| Species | Index Type | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|-----------|-------------|--------|--------|--------|--------|--------|--------|
| Aggregate | Value | 82.68 | 86.68 | 100.00 | 106.36 | 95.33 | 93.41 |
| | Price | 84.64 | 87.04 | 100.00 | 106.12 | 97.86 | 100.49 |
| | Quantity | 97.68 | 99.59 | 100.00 | 100.22 | 97.41 | 92.95 |
| PCOD | Value | 68.55 | 82.55 | 100.00 | 95.36 | 81.68 | 60.02 |
| | Price | 66.65 | 79.39 | 100.00 | 103.87 | 97.86 | 93.22 |
| | Quantity | 102.84 | 103.97 | 100.00 | 91.81 | 83.46 | 64.38 |
| | Value Share | 0.20 | 0.22 | 0.24 | 0.21 | 0.20 | 0.15 |
| PLCK | Value | 87.18 | 86.83 | 100.00 | 109.75 | 99.17 | 102.36 |
| | Price | 89.02 | 87.93 | 100.00 | 107.30 | 98.65 | 102.45 |
| | Quantity | 97.94 | 98.75 | 100.00 | 102.29 | 100.52 | 99.91 |
| | Value Share | 0.79 | 0.75 | 0.75 | 0.77 | 0.78 | 0.82 |
| SABL | Value | 114.84 | 189.16 | 100.00 | 143.06 | 145.84 | 241.28 |
| | Price | 184.98 | 183.56 | 100.00 | 90.83 | 75.24 | 94.35 |
| | Quantity | 62.08 | 103.05 | 100.00 | 157.50 | 193.82 | 255.72 |
| | Value Share | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 | 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 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.

Table 5.6: Gear indices and value share for the BSAI shoreside ex-vessel market 2016-2021

| Gear | Index Type | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|-----------|-------------|--------|--------|--------|--------|--------|--------|
| Aggregate | Value | 82.68 | 86.68 | 100.00 | 106.36 | 95.33 | 93.41 |
| | Price | 84.64 | 87.04 | 100.00 | 106.12 | 97.86 | 100.49 |
| | Quantity | 97.68 | 99.59 | 100.00 | 100.22 | 97.41 | 92.95 |
| HAL | Value | 108.83 | 81.68 | 100.00 | 109.43 | 69.71 | 51.85 |
| | Price | 154.47 | 155.36 | 100.00 | 99.10 | 86.82 | 97.83 |
| | Quantity | 70.45 | 52.58 | 100.00 | 110.43 | 80.30 | 53.00 |
| | Value Share | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 |
| POT | Value | 64.63 | 90.17 | 100.00 | 111.20 | 87.90 | 80.56 |
| | Price | 73.32 | 86.21 | 100.00 | 107.26 | 100.36 | 96.78 |
| | Quantity | 88.15 | 104.59 | 100.00 | 103.68 | 87.58 | 83.23 |
| | Value Share | 0.11 | 0.15 | 0.14 | 0.15 | 0.13 | 0.12 |
| TWL | Value | 85.55 | 86.13 | 100.00 | 105.51 | 96.81 | 95.94 |
| | Price | 86.14 | 86.80 | 100.00 | 105.98 | 97.53 | 101.05 |
| | Quantity | 99.32 | 99.22 | 100.00 | 99.55 | 99.26 | 94.94 |
| | Value Share | 0.88 | 0.84 | 0.85 | 0.84 | 0.86 | 0.87 |

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 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.

Table 5.7: Species indices and value share for the GOA first-wholesale market 2016-2021

| Species | Index Type | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|-----------|-------------|--------|--------|--------|--------|--------|--------|
| Aggregate | Value | 121.40 | 123.39 | 100.00 | 87.29 | 65.94 | 83.41 |
| | Price | 100.00 | 102.82 | 100.00 | 89.51 | 81.64 | 89.89 |
| | Quantity | 121.40 | 120.01 | 100.00 | 97.53 | 80.77 | 92.80 |
| FLAT | Value | 117.17 | 198.71 | 100.00 | 101.66 | 84.17 | 38.13 |
| | Price | 113.60 | 131.88 | 100.00 | 82.72 | 75.83 | 88.26 |
| | Quantity | 103.14 | 150.68 | 100.00 | 122.90 | 111.00 | 43.20 |
| | Value Share | 0.06 | 0.10 | 0.06 | 0.07 | 0.08 | 0.03 |
| OTHR | Value | 209.86 | 126.32 | 100.00 | 175.41 | 91.46 | 68.49 |
| | Price | 127.84 | 110.11 | 100.00 | 91.90 | 88.06 | 82.66 |
| | Quantity | 164.16 | 114.73 | 100.00 | 190.88 | 103.86 | 82.86 |
| | Value Share | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 |
| PCOD | Value | 286.81 | 236.48 | 100.00 | 110.15 | 47.37 | 111.80 |
| | Price | 73.30 | 74.18 | 100.00 | 85.92 | 84.89 | 89.88 |
| | Quantity | 391.30 | 318.80 | 100.00 | 128.20 | 55.81 | 124.39 |
| | Value Share | 0.25 | 0.21 | 0.11 | 0.14 | 0.08 | 0.14 |
| PLCK | Value | 101.56 | 93.52 | 100.00 | 81.82 | 66.47 | 66.32 |
| | Price | 96.87 | 84.68 | 100.00 | 112.78 | 115.03 | 126.62 |
| | Quantity | 104.84 | 110.44 | 100.00 | 72.55 | 57.78 | 52.38 |
| | Value Share | 0.30 | 0.27 | 0.36 | 0.34 | 0.36 | 0.29 |
| ROCK | Value | 88.07 | 86.21 | 100.00 | 74.67 | 65.06 | 81.68 |
| | Price | 93.13 | 109.68 | 100.00 | 75.68 | 67.43 | 73.97 |
| | Quantity | 94.57 | 78.60 | 100.00 | 98.66 | 96.48 | 110.43 |
| | Value Share | 0.11 | 0.11 | 0.15 | 0.13 | 0.15 | 0.15 |
| SABL | Value | 104.51 | 123.70 | 100.00 | 87.97 | 68.98 | 104.96 |
| | Price | 120.73 | 136.28 | 100.00 | 76.52 | 60.43 | 66.35 |
| | Quantity | 86.57 | 90.77 | 100.00 | 114.97 | 114.15 | 158.20 |
| | Value Share | 0.26 | 0.30 | 0.30 | 0.31 | 0.32 | 0.38 |

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 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.

Table 5.8: Product indices and value share for the GOA first-wholesale market 2016-2021

| Product | Index Type | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|-----------|-------------|--------|--------|--------|--------|--------|--------|
| Aggregate | Value | 121.40 | 123.39 | 100.00 | 87.29 | 65.94 | 83.41 |
| | Price | 100.00 | 102.82 | 100.00 | 89.51 | 81.64 | 89.89 |
| | Quantity | 121.40 | 120.01 | 100.00 | 97.53 | 80.77 | 92.80 |
| Fillet | Value | 178.51 | 146.49 | 100.00 | 94.94 | 69.19 | 115.78 |
| | Price | 90.87 | 80.44 | 100.00 | 107.49 | 105.69 | 115.58 |
| | Quantity | 196.45 | 182.11 | 100.00 | 88.32 | 65.47 | 100.17 |
| | Value Share | 0.28 | 0.23 | 0.19 | 0.21 | 0.20 | 0.27 |
| Head&Gut | Value | 98.93 | 119.22 | 100.00 | 84.44 | 64.70 | 79.43 |
| | Price | 102.57 | 117.17 | 100.00 | 82.58 | 72.01 | 76.83 |
| | Quantity | 96.45 | 101.75 | 100.00 | 102.25 | 89.84 | 103.39 |
| | Value Share | 0.50 | 0.60 | 0.62 | 0.60 | 0.61 | 0.59 |
| Other | Value | 184.19 | 158.11 | 100.00 | 110.89 | 87.75 | 53.14 |
| | Price | 94.64 | 96.33 | 100.00 | 91.40 | 91.14 | 103.22 |
| | Quantity | 194.62 | 164.14 | 100.00 | 121.33 | 96.28 | 51.49 |
| | Value Share | 0.11 | 0.10 | 0.07 | 0.09 | 0.10 | 0.05 |
| Roe | Value | 27.88 | 54.87 | 100.00 | 63.15 | 39.33 | 51.51 |
| | Price | 77.03 | 86.71 | 100.00 | 77.84 | 61.50 | 98.80 |
| | Quantity | 36.19 | 63.28 | 100.00 | 81.12 | 63.94 | 52.13 |
| | Value Share | 0.01 | 0.02 | 0.04 | 0.03 | 0.02 | 0.02 |
| Surimi | Value | 138.75 | 85.46 | 100.00 | 79.87 | 61.71 | 80.78 |
| | Price | 100.80 | 78.67 | 100.00 | 112.30 | 111.10 | 133.02 |
| | Quantity | 137.65 | 108.63 | 100.00 | 71.12 | 55.55 | 60.73 |
| | Value Share | 0.08 | 0.05 | 0.07 | 0.06 | 0.07 | 0.07 |

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 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.

Table 5.9: Species indices and value share for the GOA ex-vessel market 2016-2021

| Species | Index Type | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|-----------|-------------|--------|--------|--------|--------|--------|--------|
| Aggregate | Value | 108.84 | 123.59 | 100.00 | 85.02 | 55.72 | 77.21 |
| | Price | 92.81 | 105.39 | 100.00 | 88.93 | 64.97 | 71.41 |
| | Quantity | 117.28 | 117.28 | 100.00 | 95.60 | 85.76 | 108.12 |
| FLAT | Value | 98.58 | 119.74 | 100.00 | 98.48 | 77.60 | 23.98 |
| | Price | 90.57 | 93.39 | 100.00 | 78.16 | 68.06 | 54.49 |
| | Quantity | 108.84 | 128.21 | 100.00 | 126.00 | 114.01 | 44.01 |
| | Value Share | 0.04 | 0.04 | 0.04 | 0.05 | 0.06 | 0.01 |
| PCOD | Value | 286.46 | 246.57 | 100.00 | 110.18 | 30.95 | 107.44 |
| | Price | 65.80 | 74.83 | 100.00 | 110.42 | 90.68 | 87.67 |
| | Quantity | 435.35 | 329.51 | 100.00 | 99.78 | 34.13 | 122.55 |
| | Value Share | 0.22 | 0.17 | 0.09 | 0.11 | 0.05 | 0.12 |
| PLCK | Value | 76.36 | 83.43 | 100.00 | 85.50 | 65.80 | 64.67 |
| | Price | 67.66 | 70.64 | 100.00 | 112.14 | 96.03 | 101.14 |
| | Quantity | 112.86 | 118.11 | 100.00 | 76.24 | 68.52 | 63.95 |
| | Value Share | 0.18 | 0.17 | 0.25 | 0.25 | 0.30 | 0.21 |
| ROCK | Value | 76.88 | 81.30 | 100.00 | 98.34 | 64.29 | 72.71 |
| | Price | 76.98 | 93.69 | 100.00 | 100.54 | 68.04 | 67.63 |
| | Quantity | 99.87 | 86.77 | 100.00 | 97.82 | 94.48 | 107.51 |
| | Value Share | 0.06 | 0.06 | 0.09 | 0.10 | 0.10 | 0.08 |
| SABL | Value | 101.82 | 131.12 | 100.00 | 77.20 | 51.90 | 83.98 |
| | Price | 117.75 | 137.20 | 100.00 | 74.76 | 48.44 | 57.71 |
| | Quantity | 86.48 | 95.57 | 100.00 | 103.27 | 107.13 | 145.52 |
| | Value Share | 0.49 | 0.56 | 0.52 | 0.48 | 0.49 | 0.57 |

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 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.

Table 5.10: Gear indices and value share for the GOA ex-vessel market 2016-2021

| Gear | Index Type | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|-----------|-------------|--------|--------|--------|--------|--------|--------|
| Aggregate | Value | 108.84 | 123.59 | 100.00 | 85.02 | 55.72 | 77.21 |
| | Price | 92.81 | 105.39 | 100.00 | 88.93 | 64.97 | 71.41 |
| | Quantity | 117.28 | 117.28 | 100.00 | 95.60 | 85.76 | 108.12 |
| HAL | Value | 120.69 | 133.17 | 100.00 | 73.16 | 33.28 | 34.67 |
| | Price | 115.62 | 129.60 | 100.00 | 78.03 | 52.01 | 59.04 |
| | Quantity | 104.38 | 102.75 | 100.00 | 93.76 | 63.99 | 58.72 |
| | Value Share | 0.52 | 0.50 | 0.47 | 0.40 | 0.28 | 0.21 |
| POT | Value | 143.07 | 171.73 | 100.00 | 119.15 | 120.87 | 311.47 |
| | Price | 87.80 | 97.72 | 100.00 | 88.49 | 61.82 | 71.20 |
| | Quantity | 162.96 | 175.75 | 100.00 | 134.65 | 195.52 | 437.47 |
| | Value Share | 0.14 | 0.15 | 0.11 | 0.15 | 0.23 | 0.44 |
| TWL | Value | 87.44 | 101.19 | 100.00 | 89.41 | 63.87 | 64.54 |
| | Price | 72.00 | 84.04 | 100.00 | 101.25 | 80.77 | 84.07 |
| | Quantity | 121.44 | 120.41 | 100.00 | 88.30 | 79.07 | 76.76 |
| | Value Share | 0.34 | 0.35 | 0.43 | 0.45 | 0.49 | 0.36 |

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 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.