Annual Management Report for Groundfish Fisheries in the Bering Sea-Aleutian Islands Management Area, 2021

by Asia Beder and Janis Shaishnikoff

August 2022

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



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| Weights and measures (metric) | | General | | Mathematics, statistics | |
|--|--------------------|--------------------------|-----------------------|--------------------------------|-------------------------|
| centimeter | cm | Alaska Administrative | | all standard mathematical | |
| deciliter | dL | Code | AAC | signs, symbols and | |
| gram | g | all commonly accepted | | abbreviations | |
| hectare | ha | abbreviations | e.g., Mr., Mrs., | alternate hypothesis | H _A |
| kilogram | kg | | AM, PM, etc. | base of natural logarithm | е |
| kilometer | km | all commonly accepted | | catch per unit effort | CPUE |
| liter | L | professional titles | e.g., Dr., Ph.D., | coefficient of variation | CV |
| meter | m | | R.N., etc. | common test statistics | (F, t, χ^2 , etc.) |
| milliliter | mL | at | a | confidence interval | CI |
| millimeter | mm | compass directions: | | correlation coefficient | |
| | | east | E | (multiple) | R |
| Weights and measures (English) | | north | Ν | correlation coefficient | |
| cubic feet per second | ft ³ /s | south | S | (simple) | r |
| foot | ft | west | W | covariance | cov |
| gallon | gal | copyright | © | degree (angular) | 0 |
| inch | in | corporate suffixes: | | degrees of freedom | df |
| mile | mi | Company | Co. | expected value | Ε |
| nautical mile | nmi | Corporation | Corp. | greater than | > |
| ounce | oz | Incorporated | Inc. | greater than or equal to | ≥ |
| pound | lb | Limited | Ltd. | harvest per unit effort | HPUE |
| quart | qt | District of Columbia | D.C. | less than | < |
| yard | yd | et alii (and others) | et al. | less than or equal to | \leq |
| | | et cetera (and so forth) | etc. | logarithm (natural) | ln |
| Time and temperature | | exempli gratia | | logarithm (base 10) | log |
| day | d | (for example) | e.g. | logarithm (specify base) | log ₂ , etc. |
| degrees Celsius | °C | Federal Information | | minute (angular) | , |
| degrees Fahrenheit | °F | Code | FIC | not significant | NS |
| degrees kelvin | Κ | id est (that is) | i.e. | null hypothesis | Ho |
| hour | h | latitude or longitude | lat or long | percent | % |
| minute | min | monetary symbols | | probability | Р |
| second | s | (U.S.) | \$, ¢ | probability of a type I error | |
| | | months (tables and | | (rejection of the null | |
| Physics and chemistry | | figures): first three | | hypothesis when true) | α |
| all atomic symbols | | letters | Jan,,Dec | probability of a type II error | |
| alternating current | AC | registered trademark | ® | (acceptance of the null | |
| ampere | А | trademark | тм | hypothesis when false) | β |
| calorie | cal | United States | | second (angular) | " |
| direct current | DC | (adjective) | U.S. | standard deviation | SD |
| hertz | Hz | United States of | | standard error | SE |
| horsepower | hp | America (noun) | USA | variance | |
| hydrogen ion activity (negative log of) | pН | U.S.C. | United States Code | population sample | Var var |
| parts per million | ppm | U.S. state | use two-letter | | |
| parts per thousand | ppin ppt, | | abbreviations | | |
| Parts Per diousana | % | | (e.g., AK, WA) | | |
| volts | V | | | | |
| watts | W | | | | |
| | | | | | |

FISHERY MANAGEMENT REPORT NO. 22-15

ANNUAL MANAGEMENT REPORT FOR GROUNDFISH FISHERIES IN THE BERING SEA-ALEUTIAN ISLANDS MANAGEMENT AREA, 2021

by Asia Beder Alaska Department of Fish and Game, Division of Commercial Fisheries, Dutch Harbor and Janis Shaishnikoff Alaska Department of Fish and Game, Division of Commercial Fisheries, Dutch Harbor

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ABSTRACT

This report summarizes harvest, effort, and management of commercial state-waters and parallel groundfish fisheries managed by the Alaska Department of Fish and Game (ADF&G) in the Bering Sea-Aleutian Islands Area (BSAI). State-waters groundfish fisheries included in this report are sablefish *Anoplopoma fimbria*, black rockfish *Sebastes melanops*, dark rockfish *S. ciliatus*, Pacific cod *Gadus macrocephalus*, and key parallel fisheries. For parallel fisheries in the BSAI, ADF&G adopts most seasons, bycatch limits, and allowable gear types in the adjacent exclusive economic zone (EEZ) established by the National Marine Fisheries Service.

Keywords: Bering Sea-Aleutian Islands Area, Bering Sea District, Aleutian Islands District, Dutch Harbor Subdistrict, BSAI, sablefish, *Anoplopoma fimbria*, black rockfish, *Sebastes melanops*, parallel season, Exclusive Economic Zone, EEZ, National Marine Fisheries Service, NMFS, Pacific cod, *Gadus macrocephalus*, dark rockfish, *Sebastes ciliatus*

INTRODUCTION

Commercial groundfish fisheries within state waters (0–3 nmi) are managed by the Alaska Department of Fish and Game (ADF&G) under regulations developed by the Alaska Board of Fisheries (BOF). Commercial groundfish fisheries in the exclusive economic zone (EEZ; 3–200 nmi) off Alaska are managed by National Marine Fisheries Service (NMFS) under guidelines developed by the North Pacific Fishery Management Council (NPFMC) and the Magnuson–Stevens Fishery Conservation and Management Act (DOC 2007).

Many commercially important groundfish species occur in both state waters and the EEZ. Each year, ADF&G issues an emergency order that establishes parallel groundfish seasons in state waters, adopting federal regulations except when superseded by state regulations, including season dates, gear types, bycatch limits, and inseason management actions in adjacent EEZ fisheries managed by NMFS. Harvest in a parallel fishery is accounted for under federal catch limits. ADF&G and NMFS additionally coordinate state and federal closed waters for Steller sea lion and coral garden protection areas.

The Bering Sea-Aleutian Islands Area (BSAI) includes all state waters of the Bering Sea and waters of the North Pacific Ocean adjacent to the Aleutian Islands west of 170°W long. The BSAI is further divided into districts: the Bering Sea and Aleutian Islands Districts (Figure 1). Each state-waters groundfish fishery has unique fishery management boundaries described in this report. ADF&G actively manages 4 state-waters groundfish fisheries in the BSAI: Aleutian Islands sablefish *Anoplopoma fimbria*, Aleutian Islands black rockfish *Sebastes melanops*, Aleutian Islands Subdistrict Pacific cod *Gadus macrocephalus*, and Dutch Harbor Subdistrict Pacific cod *G. macrocephalus*.

Groundfish fishery harvests in this report are based on the ADF&G fish ticket database as of May 2022. Fishery average prices in this report are based on dock prices. For more detailed information on fishery value and prices, refer to the ADF&G commercial operator's annual report (COAR 2021).

SECTION I: ALEUTIAN ISLANDS GROUNDFISH FISHERIES

ALEUTIAN ISLANDS SABLEFISH

The Aleutian Islands state-waters sablefish fishery includes state waters of the Aleutian Islands District of the BSAI and the Western District of the South Alaska Peninsula Area south of the latitude of Cape Sarichef (54°36'N lat) and west of the longitude of Scotch Cap Light (164°44'W long; Figure 2).

BACKGROUND

The federal individual fishing quota (IFQ) program for sablefish was established in 1995. The Alaska Department of Law determined harvest of sablefish in state waters could not be limited to IFQ holders; therefore, state-waters sablefish fisheries were established in areas where historical harvest of sablefish was sufficient to allow for a manageable fishery. All vessels harvesting sablefish in state waters must be registered with ADF&G, including those vessels harvesting IFQ or Community Development Quota (CDQ) sablefish. All harvest taken from state waters accrues to the guideline harvest level (GHL), regardless of whether harvest is accounted for in a federal fishery.

ADF&G annually reviews the NMFS sablefish stock assessment and sets the Aleutian Islands state-waters sablefish GHL at approximately 5% of the combined federal BSAI total allowable catch. Season dates for the state waters fishery coincide with the federal IFQ season to allow for sablefish harvest inside state waters during the entire IFQ fishery (Table 1). Longline, pot, jig, and hand troll are the only legal gear types. Since 1995, vessels using longline gear account for the majority of the harvest except in 2020 and 2021 when boats mostly fished with pot gear (Table 2). Federal regulation changes allowing for retention of halibut in pot gear in the BSAI, whale interactions, and slinky pots becoming more prevalent could all be possible factors in pot gear becoming the main gear type in the state-waters fishery in 2020 and 2021. While trawl is not a legal gear type, bycatch in trawl fisheries has accounted for a portion of the removals since 1995.

The GHL was achieved annually from 1996 through 2002 but has not been fully harvested since 2003. Total fishery value peaked in 2011 at \$0.98 million (Table 1). For more history on regulation changes and fishery effort for the Aleutian Islands sablefish fishery, refer to the 2017 BSAI annual management report (Beder and Shaishnikoff 2018).

2021 FISHERY

The 2021 Aleutian Islands state-waters sablefish GHL was 894,200 pounds, an increase of 108% from the 2020 GHL (Table 1). Season dates were concurrent with the IFQ season: March 6 through December 7. Fishery harvest was 119,979 pounds taken by 24 vessels, including incidental catch by trawl vessels (Table 1); vessels longlining harvested 37,996 pounds and pot vessels harvested 73,887 pounds. Incidental catch by trawl vessels accounted for 8,095 pounds during the 2021

fishery (Table 2). Participants in federal IFQ/CDQ fisheries accounted for 93% of the harvest. Average exvessel price was \$2.12 per pound for an estimated exvessel value of \$201,226 (Table 1).

ALEUTIAN ISLANDS BLACK ROCKFISH

The Aleutian Islands black rockfish fishery includes state waters of the Aleutian Islands District of the BSAI and the Western District of the South Alaska Peninsula Area south of the latitude of Cape Sarichef (54°36'N lat) and west of the longitude of Scotch Cap Light (164°44'W long; Figure 3). The fishery is further divided into the Akutan, Unalaska, and Western Sections, with the Akutan and Unalaska Sections further divided into subsections (Figure 4).

BACKGROUND

In 1998, the NPFMC passed Amendment 46 to the Gulf of Alaska (GOA) groundfish Fishery Management Plan (FMP), removing black rockfish from the GOA FMP, and thereby delegating management in the GOA EEZ to the State of Alaska. Black rockfish in the BSAI EEZ remain under federal management. The Aleutian Islands black rockfish fishery occurs in state waters south of Cape Sarichef and west of Scotch Cap Light. Federal waters of the Pacific Ocean between Scotch Cap Light and 170°W long are also managed by ADF&G as a bycatch fishery. Starting in 2000, the Akutan and Unalaska Sections were divided into subsections, each with a separate GHL to distribute fishing effort (Figure 4, Table 3). Subsection GHL apportionments are based on potential black rockfish habitat as determined by the amount of coastline. The waters from the south end of Green Bight to Talus Point have been closed since 2000 due to concerns of localized depletion.

The Aleutian Islands black rockfish fishery opens January 1 and closes December 31, unless closed earlier by emergency order. Fish harvesters may use mechanical jig or hand troll gear with a limit of 5 mechanical jigging machines per vessel. Fish harvesters are required to register with ADF&G prior to fishing and must complete a logbook for directed black rockfish fishing activity.

Very little directed effort for black rockfish has occurred in recent years, with most of the harvest coming from bycatch in other fisheries each year (Table 4). For more history on regulation changes and fishing effort for the Aleutian Islands black rockfish fishery, refer to the 2017 BSAI groundfish annual management report (Beder and Shaishnikoff 2018).

2021 FISHERY

The 2021 Aleutian Islands black rockfish GHL was 90,000 pounds; 35,000 pounds were available in both the Akutan and Unalaska Sections and 20,000 pounds were available in the Western Section (Table 3). The waters from the south end of Green Bight to Talus Point remained closed for the 2021 fishery.

The 2021 Aleutian Islands black rockfish fishery opened on January 1 and closed on December 31. No directed harvest occurred. Fish harvesters may retain up to 20% black rockfish as bycatch from other directed state-waters and federal groundfish fisheries. Four vessels incidentally harvested black rockfish in 2021; total harvest is confidential (Table 4).

ALEUTIAN ISLANDS DARK ROCKFISH

In 2009, Amendment 73 was added to the BSAI groundfish FMP and Amendment 77 was added to the GOA groundfish FMP (NOAA 2008), which removed dark rockfish from the federal FMPs, thereby extending the State of Alaska's authority for dark rockfish in the EEZ of both the BSAI and GOA. In the BSAI, there is no directed dark rockfish fishery. Bycatch of dark rockfish is limited to 20% of the directed target species onboard a vessel. Dark rockfish incidental harvest in 2021 totaled 15,082 pounds, primarily from trawl groundfish bycatch in BSAI federal waters.

ALEUTIAN ISLANDS SUBDISTRICT STATE-WATERS PACIFIC COD

The Aleutian Islands Subdistrict (AIS) state-waters Pacific cod fishery includes state waters of the Aleutian Islands Subdistrict west of 170°W long, with an inner Adak Section that included state waters between 175°W long and 178°W long (Figure 5).

BACKGROUND

Prior to 2006, Pacific cod harvest in the Aleutian Islands District was exclusively managed under parallel rules. In February 2006, the BOF approved regulations for a state-waters Pacific cod fishery in the AIS west of 170°W long (Figure 5, Appendix A). The *Aleutian Islands Subdistrict Pacific Cod Management Plan* (5 AAC 28.647) was adopted by emergency petition to provide the community of Adak with economic opportunities. Regulatory changes to the AIS state-waters Pacific cod fishery from 2006 through 2020 are provided in Appendix A.

In 2019, the AIS state-waters Pacific cod GHL was established at 31% of the federal Aleutian Islands subarea allowable biological catch (ABC), with a step-up prevision increasing the GHL by 4% each subsequent year the GHL is achieved, up to a maximum of 39%. Additionally, if the GHL is not achieved for 2 consecutive years, the GHL will decrease by 4% each following year down to a minimum of 15% of the federal Aleutian Islands ABC. The AIS state-waters Pacific cod 2021 GHL was due to be set at 39% of the federal Aleutian Islands ABC; however, since 2016, a maximum regulatory GHL cap of 15,000,000 pounds has been in place for this fishery; therefore, the 2021 GHL was set at 33% of the ABC, less than the full 39% allowed in regulation. From 2006 to 2021, AIS state-waters Pacific cod GHLs ranged from 10.5 million pounds to 20.8 million pounds (Table 5). Since its inception, the AIS Pacific cod fishery has been generally underutilized, with the GHL being fully achieved during 6 of the past 14 years (2007, 2008, 2018, 2019, 2020, and 2021). During years when the GHL was not achieved, approximately 50% of the GHL remained unharvested. Years when the GHL was fully harvested generally correspond to periods when a shore-based processor was operational in Adak. Vessels using longline, trawl, pot, and jig gear have historically been eligible to participate in the fishery and the GHL is not allocated by gear type. Participation has fluctuated over time with only trawl or pot gear vessels participating 4 of the last 5 years (Table 6). The number of vessels, along with vessel size for each gear type, has varied since 2006 with a general shift toward under 60-foot overall length (OAL) pot gear vessels in recent years.

Prior to 2016, the AIS state-waters Pacific cod GHL was divided across two seasons: "A" season (before June 10) and "B" season (after June 10). Since 2016, the AIS state-waters Pacific cod fishery has been managed as one season. Prior to 2020, the AIS state-waters Pacific cod fishery was a nonexclusive registration area for all gear types. In December 2019, the BOF approved

regulations for the AIS to be an exclusive registration area for all gear types. This regulation became effective during the 2020 season (Appendix A).

2021 FISHERY

The AIS state-waters Pacific cod 2021 GHL was 15,000,000 pounds (Table 5). The state-waters fishery opened on January 1 in the Adak Section to vessels 60 feet or less OAL using trawl, pot, and jig gear, and vessels 58 feet or less OAL using longline gear (Tables 6 and 7). All state waters west of 170°W long opened on January 25 at 12:00 PM to pot vessels 100 feet or less OAL, trawl and jig vessels 60 feet or less OAL, and longline vessels 58 feet or less OAL. All state waters west of 170°W long opened on March 15 at 12:00 PM for trawl vessels 100 feet or less OAL and pot vessels 125 feet or less OAL. The fishery closed on April 9 with a total harvest of 14,777,163 lb (Tables 5, 6, and 7). A total of 13 vessels, 8 pot vessels and 5 trawl vessels participated in the 2021 AIS fishery. Nine of the 13 vessels were under 60 feet OAL. Daily CPUE is confidential. Fish harvesters were initially paid an average exvessel price of \$0.38 per pound for an estimated fishery exvessel value of \$5.44 million for the 2021 fishery.

SECTION II: BERING SEA GROUNDFISH FISHERIES

DUTCH HARBOR SUBDISTRICT STATE-WATERS PACIFIC COD

The Dutch Harbor Subdistrict (DHS) includes state waters of the Aleutian Islands District east of 170°W long and the state waters of the Bering Sea District that are west of 162°30.00′W long, east of 170°W long, and south of 55°30′N lat, with closed waters south of 53°06.11′N lat (Figure 6).

BACKGROUND

The DHS state-waters Pacific cod fishery for pot gear was established by the BOF in October 2013 and opened for the first time in 2014 under regulations in the *Dutch Harbor Subdistrict Pacific Cod Management Plan* (5 AAC 28.648). The DHS state-waters Pacific cod fishery for jig gear was established by the BOF in October 2018 and opened for the first time in 2019. Regulatory changes to the DHS state-waters Pacific cod fisheries are provided in Appendix B.

The DHS state-waters Pacific cod fishery for pot gear opens 7 days after closure of the BSAI federal/parallel Pacific cod A season for catcher vessels less than 60 feet OAL using longline and pot gear. Vessels participating in the DHS state-waters Pacific cod pot fishery are limited to a maximum of 58 feet OAL and may operate no more than 60 pots. The DHS state-waters Pacific cod fishery is an exclusive registration area for pot gear.

In 2019, the BOF set the GHL at 8% and included a step-up prevision increasing the DHS statewaters Pacific cod GHL by 1% each subsequent year the GHL is achieved to a maximum of 15% of the federal Bering Sea subarea ABC. The 2021 DHS state-waters Pacific cod GHL for pot gear is 10% of the federal Bering Sea subarea ABC. From 2014 to 2021, DHS state-waters Pacific cod GHLs for pot gear ranged from 17.8 million pounds to 36 million pounds (Table 8). The GHL has been achieved every year. Vessel participation has ranged from 14 to 40 vessels, with the highest participation occurring in 2020 (Table 8).

The DHS state-waters Pacific cod fishery for jig gear opens May 1 with a regulatory GHL of 100,000 pounds. Vessels participating in the DHS state-waters Pacific cod jig fishery are limited to a maximum of 58 feet OAL and may operate no more than 5 jigging machines. The DHS state-waters Pacific cod fishery is a nonexclusive registration area for jig gear.

2021 POT GEAR FISHERY

The 2021 DHS state-waters Pacific cod fishery for pot gear opened on February 2 with a GHL of 27,292,000 pounds. The fishery closed on March 25 with a total harvest of 27,585,848 pounds and 29 vessels participated in the 52-day fishery (Tables 8 and 9). Harvest was distributed throughout most of the registration area, with 74% coming from waters around Unimak Island. Fleetwide daily harvest ranged from approximately 26.5 thousand to 966 thousand pounds, with a daily average harvest of 532,892 pounds. Daily CPUE ranged from 83 to 285 pounds per pot, with a daily average CPUE of 152 pounds per pot. Fish harvesters were initially paid an average exvessel price

of \$0.39 per pound for an estimated fishery exvessel value of \$10.33 million for the 2021 pot gear fishery.

2021 JIG GEAR FISHERY

The 2021 DHS state-waters Pacific cod fishery for jig gear opened on May 1 with a GHL of 100,000 pounds (Table 10). The fishery closed on December 31; harvest is confidential. One vessel participated in the 245-day fishery (Table 10).

GROUNDFISH HARVEST FROM PARALLEL SEASONS IN THE BERING SEA-ALEUTIAN ISLANDS AREA

Each year, by emergency order, ADF&G establishes parallel groundfish fisheries that mirror federal fisheries managed by NMFS. ADF&G generally adopts seasons, closed waters, bycatch limits, and legal gear types of the adjacent federal waters, unless superseded by state regulations.

Steller sea lion protection measures during a parallel season reflect NMFS closure areas, except in state waters between 175°W long and 178°W long during a parallel Pacific cod fishery, in which the Steller sea lion protection measures reflect those in place prior to 2011 (5 AAC 28.087(b)(3)).

Several species are harvested during the BSAI parallel fisheries; however, Pacific cod, walleye pollock *Gadus chalcogrammus*, and Pacific Ocean perch *Sebastes alutus* dominated parallel harvest by volume in 2021 (Table 11). During 2021, parallel harvest was 2.5 million pounds for Pacific cod, 11.6 million pounds for walleye pollock, and 1.2 million pounds for Pacific Ocean perch (Tables 11 and 12).

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TABLES AND FIGURES

| | | | | | Average price | Fishery | Season | dates | Season |
|------|------------------|----------------------|---------|----------|------------------------|---------|----------|----------|-----------------------|
| Year | GHL ^a | Harvest ^a | Vessels | Landings | per pound ^b | valuec | Opened | Closed | duration ^d |
| 1995 | 400,000 | 269,220 | 35 | 59 | \$2.96 | \$0.50 | 03/15/95 | 11/15/95 | 246 |
| 1996 | 280,000 | 401,463 | 35 | 67 | \$2.54 | \$0.64 | 03/15/96 | 07/26/96 | 134 |
| 1997 | 270,000 | 317,562 | 37 | 75 | \$3.55 | \$0.71 | 03/15/97 | 07/20/97 | 128 |
| 1998 | 270,000 | 254,578 | 38 | 101 | \$2.18 | \$0.35 | 03/15/98 | 11/15/98 | 246 |
| 1999 | 250,000 | 279,778 | 24 | 38 | \$2.69 | \$0.47 | 03/15/99 | 08/16/99 | 155 |
| 2000 | 400,000 | 446,560 | 28 | 59 | \$3.04 | \$0.86 | 03/15/00 | 07/15/00 | 123 |
| 2001 | 425,000 | 464,241 | 31 | 99 | \$2.85 | \$0.79 | 05/15/01 | 08/08/01 | 86 |
| 2002 | 460,000 | 477,970 | 24 | 59 | \$2.95 | \$0.88 | 05/15/02 | 07/16/02 | 63 |
| 2003 | 630,000 | 473,426 | 40 | 104 | \$3.58 | \$0.92 | 05/15/03 | 11/15/03 | 185 |
| 2004 | 660,000 | 323,969 | 28 | 76 | \$2.69 | \$0.47 | 05/15/04 | 11/15/04 | 185 |
| 2005 | 550,000 | 203,498 | 27 | 72 | \$2.79 | \$0.27 | 05/15/05 | 11/15/05 | 185 |
| 2006 | 640,000 | 177,935 | 16 | 54 | \$3.55 | \$0.42 | 05/15/06 | 11/15/06 | 185 |
| 2007 | 638,000 | 269,282 | 25 | 59 | \$3.49 | \$0.62 | 05/15/07 | 11/15/07 | 185 |
| 2008 | 584,000 | 156,293 | 20 | 48 | \$3.90 | \$0.41 | 05/15/08 | 11/15/08 | 185 |
| 2009 | 542,000 | 279,510 | 24 | 65 | \$4.90 | \$0.85 | 05/15/09 | 11/15/09 | 185 |
| 2010 | 535,000 | 209,063 | 25 | 60 | \$5.89 | \$0.79 | 05/15/10 | 11/15/10 | 185 |
| 2011 | 523,000 | 200,635 | 26 | 73 | \$7.65 | \$0.98 | 05/15/11 | 11/15/11 | 185 |
| 2012 | 472,000 | 222,775 | 26 | 86 | \$5.94 | \$0.84 | 05/15/12 | 11/15/12 | 185 |
| 2013 | 442,000 | 222,379 | 16 | 47 | \$4.42 | \$0.62 | 05/15/13 | 11/07/13 | 177 |
| 2014 | 347,000 | 161,022 | 13 | 37 | \$5.33 | \$0.54 | 03/08/14 | 11/07/14 | 245 |
| 2015 | 346,000 | 153,823 | 15 | 44 | \$5.81 | \$0.56 | 03/14/15 | 11/07/15 | 239 |
| 2016 | 298,503 | 78,710 | 15 | 38 | \$4.77 | \$0.25 | 03/19/16 | 11/07/16 | 234 |
| 2017 | 331,682 | 119,913 | 23 | 58 | \$4.44 | \$0.39 | 03/11/17 | 11/07/17 | 242 |
| 2018 | 381,000 | 34,897 | 25 | 47 | \$3.28 | \$0.07 | 03/24/18 | 11/07/18 | 229 |
| 2019 | 385,400 | 110,272 | 23 | 55 | \$3.00 | \$0.21 | 03/15/19 | 11/14/19 | 245 |
| 2020 | 429,800 | 397,624 | 20 | 56 | \$1.42 | \$0.39 | 03/14/20 | 11/15/20 | 247 |
| 2021 | 894,200 | 119,979 | 24 | 54 | \$2.12 | \$0.20 | 03/06/21 | 12/07/21 | 277 |

Table 1.-Aleutian Islands state-waters sablefish fishery guideline harvest level (GHL), harvest, effort, value, and season dates, 1995–2021.

Note: GHL = guideline harvest level; fishery value imprecise due to differences in pricing and grading of landed catch at the dock.

^a In whole fish pounds; 2006 to present does not include discards at sea.

^b Price per pound of landed weight; 2006 to present only includes fish sold for human consumption.

^c Fishery value based on landed weight, in millions of dollars; 2006 to present includes human consumption and fish meal.

^d In days.

| monery | nur vest og get | ar type, 19 | <i>)5</i> 2021. | |
|--------|-----------------|--------------------|-----------------|---------|
| Year | Longline | Trawl ^a | Pot | Total |
| 1995 | 227,917 | 41,303 | 0 | 269,220 |
| 1996 | 401,429 | 26 | 8 | 401,463 |
| 1997 | 312,506 | 20 | 5,036 | 317,562 |
| 1998 | 252,398 | 2,180 | 0 | 254,578 |
| 1999 | 272,240 | 6,268 | 1,270 | 279,778 |
| 2000 | 446,112 | 0 | 448 | 446,560 |
| 2001 | 439,612 | 210 | 24,419 | 464,241 |
| 2002 | 456,632 | 1,126 | 20,212 | 477,970 |
| 2003 | 428,315 | 270 | 44,842 | 473,426 |
| 2004 | 273,807 | 129 | 50,033 | 323,969 |
| 2005 | 182,348 | 58 | 21,092 | 203,498 |
| 2006 | 128,764 | 1,207 | 47,964 | 177,935 |
| 2007 | 189,708 | 4,251 | 75,323 | 269,282 |
| 2008 | 123,705 | 0 | 32,589 | 156,293 |
| 2009 | 271,776 | CF | CF | 279,510 |
| 2010 | 202,075 | CF | CF | 209,063 |
| 2011 | 164,604 | 0 | 36,031 | 200,635 |
| 2012 | 215,069 | CF | CF | 222,775 |
| 2013 | 208,981 | CF | CF | 222,379 |
| 2014 | 159,514 | CF | CF | 161,022 |
| 2015 | 153,822 | CF | 0 | 153,823 |
| 2016 | 53,524 | CF | CF | 78,710 |
| 2017 | 48,185 | CF | CF | 119,912 |
| 2018 | 29,784 | CF | CF | 34,897 |
| 2019 | 83,129 | CF | CF | 107,556 |
| 2020 | 49,831 | 5,178 | 342,615 | 397,624 |
| 2021 | 37,996 | 8,095 | 73,887 | 119,979 |

Table 2.–Aleutian Islands state-waters sablefish fishery harvest by gear type, 1995–2021.

Note: Harvest shown in whole fish pounds; CF = confidential.

а

Trawl is not a legal gear type. Sablefish harvested as bycatch to other fisheries.

| Section | Subsection | GHL (pounds) ^a |
|----------|-----------------------------|---------------------------|
| Akutan | Akutan Island | 10,000 |
| | Akun Island | 10,000 |
| | Rootok Island | 5,600 |
| | Tigalda Island | 9,400 |
| | Total | 35,000 |
| Unalaska | Unalaska Bay/Wislow | 3,000 |
| | Cape Kalekta/Unalga Island | 3,600 |
| | West Unalaska | 12,850 |
| | South Unalaska | 12,300 |
| | Beaver Inlet/Sedanka Island | 3,250 |
| | Total | 35,000 |
| Western | No subsections | 20,000 |

Table 3.–Aleutian Islands state-waters black rockfish fishery guideline harvest level (GHL), by section and subsection for the 2021 fishery.

^a In whole fish pounds.

| | | | | | Average price | Fishery |
|---------------------|---------|----------------------|---------|----------|------------------------|----------|
| Year | GHLª | Harvest ^a | Vessels | Landings | per pound ^b | valuec |
| 1994 ^{d,e} | 100,000 | 0 | 0 | 0 | \$0 | \$0 |
| 1995 ^{d,e} | 100,000 | CF | 10 | CF | CF | CF |
| 1996 ^{d,e} | 100,000 | CF | 12 | CF | CF | CF |
| 1997 ^{d,e} | 100,000 | 102,746 | 8 | 18 | \$0.34 | \$35,000 |
| 1998° | 100,000 | CF | 5 | 31 | CF | CF |
| 1999 ^e | 90,000 | 20,889 | 6 | 41 | \$0.35 | \$7,200 |
| 2000 | 90,000 | CF | 2 | 5 | CF | CF |
| 2001 | 90,000 | CF | 4 | 11 | CF | CF |
| 2002 | 90,000 | CF | 6 | 27 | CF | CF |
| 2003 | 90,000 | 2,308 | 5 | 8 | CF | CF |
| 2004 | 90,000 | 1,639 | 10 | 28 | CF | CF |
| 2005 | 90,000 | 6,014 | 7 | 19 | \$0.36 | \$1,319 |
| 2006 | 90,000 | CF | 2 | 2 | CF | CF |
| 2007 | 90,000 | CF | 4 | 7 | CF | CF |
| 2008 | 90,000 | CF | 4 | 5 | CF | CF |
| 2009 | 90,000 | CF | 2 | 2 | CF | CF |
| 2010 | 90,000 | 2,088 | 4 | 4 | \$0 | \$0 |
| 2011 | 90,000 | 3,926 | 6 | 7 | CF | CF |
| 2012 | 90,000 | 11,712 | 5 | 6 | CF | CF |
| 2013 | 90,000 | CF | 2 | 2 | CF | CF |
| 2014 | 90,000 | 1,985 | 4 | 6 | CF | CF |
| 2015 | 90,000 | 2,365 | 3 | 4 | CF | CF |
| 2016 | 90,000 | 377 | 5 | 6 | \$0 | \$0 |
| 2017 | 90,000 | 3,153 | 7 | 8 | \$0 | \$0 |
| 2018 | 90,000 | CF | 2 | 3 | CF | CF |
| 2019 | 90,000 | 823 | 6 | 6 | \$0 | \$0 |
| 2020 | 90,000 | 111 | 11 | 19 | \$0 | \$0 |
| 2021 | 90,000 | CF | 4 | 5 | CF | CF |

Table 4.–Aleutian Islands state-waters black rockfish fishery guideline harvest level (GHL), harvest, effort, and value, 1994–2021.

Note: GHL = guideline harvest level; CF = confidential.

^a In whole fish pounds. Harvest includes all fishery removals including discards at sea and personal use.

^b Price per pound landed weight.

^c Fishery value based on landed weight.

^d Totals include black and dusky rockfish. In the early years of the fishery, dusky rockfish may have been misidentified as black rockfish; therefore, harvest totals include both species.

^e Due to reporting changes, these data are historical and cannot be replicated.

| Year | Season | Initial GHL ^a | Harvest ^a | Vessels | Landings | Average price per pound ^b | Fishery value ^c |
|------|----------|--------------------------|----------------------|-----------------|----------|---|-------------------------------|
| 2006 | A season | 8,981,540 | 8,502,781 | 26 | 68 | \$0.23 | \$1.3 |
| | B season | 3,849,232 ^d | 351,414 | 5 | 19 | \$0.38 | \$1.4 |
| | TOTAL | 12,830,772 | 8,854,195 | 30 ° | 87 | \$0.31 | \$2.7 |
| 2007 | A season | 8,148,202 | 8,229,931 | 27 | 97 | \$0.45 | \$3.6 |
| | B season | 3,492,086 ^f | 3,409,070 | 12 | 106 | \$0.52 | \$1.7 |
| | TOTAL | 11,640,288 | 11,639,001 | 39 | 203 | \$0.49 | \$5.3 |
| 2008 | A season | 8,148,202 | 7,477,507 | 30 | 116 | \$0.63 | \$4.5 |
| | B season | 3,492,086 ^g | 4,241,692 | 18 | 77 | \$0.57 | \$1.8 |
| | TOTAL | 11,640,288 | 11,719,199 | 45 ° | 193 | \$0.61 | \$6.3 |
| 2009 | A season | 8,425,981 | 5,537,886 | 22 | 50 | NA | NA |
| | B season | 3,611,135 ^g | CF | 5 | 47 | CF | CF |
| | TOTAL | 12,037,116 | CF | 27 | 97 | CF | CF |
| 2010 | A season | 8,055,608 | 7,959,515 | 16 | 84 | \$0.25 | \$1.6 |
| | B season | 3,452,404 ^g | 826,170 | 3 | 4 | \$0.32 | \$1.1 |
| | TOTAL | 11,508,012 | 8,785,685 | 16 ^e | 88 | \$0.29 | \$2.7 |
| 2011 | A season | 10,879,701 | CF | 3 | 4 | CF | CF |
| | B season | 4,662,729 ^g | CF | 4 | 16 | CF | CF |
| | TOTAL | 15,542,430 | 595,289 | 6 ^e | 20 | CF | CF |
| 2012 | A season | 14,537,132 | 11,462,339 | 21 | 201 | \$0.31 | \$3.6 |
| | B season | 6,230,200 ^g | 878,688 | 7 | 25 | CF | CF |
| | TOTAL | 20,767,332 | 12,341,027 | 26 ° | 226 | CF | CF |
| 2013 | A season | 14,213,056 | CF | 12 | 150 | CF | CF |
| | B season | 6,091,310 ^g | CF | 1 | 1 | CF | CF |
| | TOTAL | 20,304,366 | 10,563,646 | 13 | 151 | CF | CF |
| 2014 | A season | 12,504,712 | CF | 8 | 133 | CF | CF |
| | B season | 5,359,162 ^g | 0 | 0 | 0 | \$0.00 | \$0.0 |
| | TOTAL | 17,863,874 | CF | 8 | 133 | CF | CF |
| 2015 | A season | 12,620,583 | CF | 2 | 8 | CF | CF |
| | B season | 5,408,821 ^g | 0 | 0 | 0 | \$0.00 | \$0.0 |
| | TOTAL | 18,029,404 | CF | 2 | 8 | CF | CF |

Table 5.-Aleutian Islands Subdistrict state-waters Pacific cod fishery harvest, effort, and value, 2006-2021.

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Table 5.–Page 2 of 2.

| Year | Season | Initial GHL ^a | Harvest ^a | Vessels | Landings | Average price per pound ^b | Fishery value ° |
|------|--------|--------------------------|----------------------|---------|----------|--------------------------------------|--------------------|
| 2016 | h | 10,476,259 | CF | 6 | 39 | CF | CF |
| 2017 | h | 12,797,703 | CF | 3 | 84 | CF | CF |
| 2018 | h | 12,798,000 | CF | 13 | 132 | CF | CF |
| 2019 | h | 14,078,500 | 13,664,555 | 18 | 155 | \$0.38 | \$5.08 |
| 2020 | h | 15,000,000 | 14,907,703 | 15 | 187 | \$0.35 | \$5.12 |
| 2021 | h | 15,000,000 | 14,777,163 | 13 | 170 | \$0.38 | \$5.44 |

Note: CF = confidential.

^a In whole fish pounds.

^b Price per pound of landed weight.

^c Fishery value based on landed weight, in millions of dollars.

^d ADF&G made 3.5 million pounds of the GHL available to National Marine Fisheries Service effective on September 1.

^e Some vessels participated in both seasons.

^f Overage from the A season was deducted from the B season GHL; initial GHL shown.

^g A season GHL was not fully harvested, and remaining A season GHL rolled over into B season GHL; initial GHL shown.

^h In 2016, regulation changed to only one season for Aleutian Island Subdistrict state-waters Pacific cod.

| ear | Season | Longline ^a | Trawl ^a | Pot ^a | Jig ^a | Total |
|-----|----------|-----------------------|--------------------|------------------|------------------|-----------|
| 006 | A season | CF | 7,053,035 | CF | 0 | 8,502,781 |
| | B season | 76,462 | 0 | 274,952 | 0 | 351,414 |
| 007 | A season | 0 | 6,998,224 | 1,231,707 | 0 | 8,229,931 |
| | B season | CF | 0 | 2,383,163 | CF | 3,409,070 |
| 008 | A season | CF | 6,130,304 | CF | 0 | 7,477,507 |
| | B season | 362,410 | 0 | 3,786,710 | 92,572 | 4,241,692 |
|)09 | A season | CF | 1,295,595 | 3,879,737 | CF | 5,537,886 |
| | B season | CF | 0 | 0 | CF | CH |
| 010 | A season | 0 | 4,899,783 | 3,059,731 | 0 | 7,959,515 |
| | B season | CF | 0 | CF | 0 | 826,170 |
|)11 | A season | 0 | CF | CF | 0 | CI |
| | B season | CF | 0 | CF | 0 | Cl |
| 012 | A season | CF | 5,983,213 | CF | 0 | 11,462,33 |
| | B season | 274,856 | 0 | 555,369 | 48,462 | 878,68 |
| 013 | A season | 0 | CF | CF | 0 | C |
| | B season | CF | 0 | 0 | 0 | C |
|)14 | A season | 0 | CF | CF | 0 | C |
| | B season | 0 | 0 | 0 | 0 | |
| 015 | A season | 0 | CF | 0 | 0 | C |
| | B season | 0 | 0 | 0 | 0 | |
| 016 | b | 0 | CF | 0 | 0 | Cl |
|)17 | b | 0 | 0 | CF | 0 | C |
|)18 | b | 0 | CF | CF | 0 | C |
|)19 | b | 0 | CF | CF | 0 | 13,664,55 |
|)20 | b | CF | CF | 11,650,833 | 0 | 14,907,70 |
| 021 | b | 0 | CF | CF | 0 | 14,777,16 |

Table 6.-Aleutian Islands Subdistrict state-waters Pacific cod fishery harvest by gear type, 2006-2021.

Note: CF = confidential.

^a In whole fish pounds.
 ^b In 2016, regulation changed to only one season for Aleutian Island Subdistrict state-waters Pacific cod.

| | | | Season | dates | Season | |
|------|----------|--------------------|------------|------------|----------|--|
| Year | Season | Location | Opened | Closed | duration | |
| 2006 | A season | West of 170°W long | 03/15/2006 | 03/24/2006 | 10 | |
| | B season | West of 170°W long | 06/10/2006 | 09/01/2006 | 84 | |
| 2007 | A season | West of 170°W long | 03/16/2007 | 03/23/2007 | 8 | |
| | B season | West of 170°W long | 06/10/2007 | 09/01/2007 | 84 | |
| | | West of 170°W long | 10/01/2007 | 12/03/2007 | 64 | |
| 2008 | A season | West of 170°W long | 03/10/2008 | 03/18/2008 | 9 | |
| | B season | West of 170°W long | 06/10/2008 | 07/09/2008 | 30 | |
| 2009 | A season | West of 170°W long | 03/25/2009 | 04/01/2009 | 8 | |
| | | West of 170°W long | 04/07/2009 | 06/09/2009 | 64 | |
| | B season | West of 170°W long | 06/10/2009 | 09/01/2009 | 84 | |
| 2010 | A season | West of 170°W long | 03/16/2010 | 06/04/2010 | 81 | |
| | B season | West of 170°W long | 06/10/2010 | 09/01/2010 | 84 | |
| | | West of 170°W long | 11/15/2010 | 12/31/2010 | 47 | |
| 2011 | A season | West of 170°W long | 03/30/2011 | 04/01/2011 | 3 | |
| | | West of 170°W long | 04/05/2011 | 06/09/2011 | 66 | |
| | B season | West of 170°W long | 06/10/2011 | 09/01/2011 | 84 | |
| | | West of 170°W long | 10/25/2011 | 12/31/2011 | 68 | |
| 2012 | A season | 175° to 178°W long | 01/01/2012 | 06/09/2012 | 161 | |
| | | West of 170°W long | 03/04/2012 | 04/01/2012 | 29 | |
| | | West of 170°W long | 04/15/2012 | 06/09/2012 | 56 | |
| | B season | West of 170°W long | 06/10/2012 | 09/01/2012 | 84 | |
| 2013 | A season | 175° to 178°W long | 01/01/2013 | 06/09/2013 | 160 | |
| | | West of 170°W long | 03/15/2013 | 04/01/2013 | 18 | |
| | B season | West of 170°W long | 06/10/2013 | 09/01/2013 | 84 | |
| 2014 | A season | 175° to 178°W long | 01/01/2014 | 06/09/2014 | 160 | |
| | | West of 170°W long | 03/15/2014 | 06/09/2014 | 87 | |
| | B season | West of 170°W long | 06/10/2014 | 12/31/2014 | 205 | |
| 2015 | A season | 175° to 178°W long | 01/01/2015 | 06/09/2015 | 160 | |
| | | West of 170°W long | 03/03/2015 | 06/09/2015 | 99 | |
| | B season | West of 170°W long | 06/10/2015 | 12/31/2015 | 205 | |

| Table 7.–Aleutian Islands | Subdistrict state-waters | Pacific cod season | dates and duration | 2006-2021 |
|-----------------------------|---------------------------|--------------------|---------------------|------------|
| ruble /. / fieutian Islands | Subulstifict Stute Waters | | autos ana aurarion, | 2000 2021. |

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Table 7.–Page 2 of 2.

| | | | Season | Season dates | | | |
|------|--------|--------------------|------------|--------------|-----------------------|--|--|
| Year | Season | Location | Opened | Closed | duration ^a | | |
| 2016 | b | 175° to 178°W long | 01/01/2016 | 12/31/2016 | 366 | | |
| | | West of 170°W long | 03/13/2016 | 12/31/2016 | 294 | | |
| 2017 | b | 175° to 178°W long | 01/01/2017 | 12/31/2017 | 365 | | |
| | | West of 170°W long | 02/27/2017 | 12/31/2017 | 308 | | |
| 2018 | b | 175° to 178°W long | 01/01/2018 | 03/23/2018 | 82 | | |
| | | West of 170°W long | 03/08/2018 | 03/23/2018 | 16 | | |
| 2019 | b | 175° to 178°W long | 01/01/2019 | 03/17/2019 | 76 | | |
| | | West of 170°W long | 03/15/2019 | 03/17/2019 | 3 | | |
| 2020 | b | 175° to 178°W long | 01/01/2020 | 03/23/2020 | 83 | | |
| | | West of 170°W long | 02/20/2020 | 02/27/2020 | 8° | | |
| | | West of 170°W long | 02/28/2020 | 03/23/2020 | 25 ^d | | |
| | | West of 170°W long | 03/15/2020 | 03/23/2020 | 9 ^e | | |
| 2021 | b | 175° to 178°W long | 01/01/2021 | 04/09/2021 | 99 | | |
| | | West of 170°W long | 01/25/2021 | 04/09/2021 | 75 ^d | | |
| | | West of 170°W long | 03/15/2021 | 04/09/2021 | 26 ^e | | |

^a In days.

^b In 2016, regulation changed to only one season for Aleutian Island Subdistrict state-waters Pacific cod.

^c Open to longline gear no more than 58 feet, jig gear no more than 60 feet, pot gear no more than 125 feet, and trawl gear no more than 100 feet overall length until February 27 at 11:59 PM Alaska time

^d Open to longline gear no more than 58 feet, jig gear no more than 60 feet, pot gear no more than 100 feet, and trawl gear no more than 60 feet overall length

^e Open to longline gear no more than 58 feet, jig gear no more than 60 feet, pot gear no more than 125 feet, and trawl gear no more than 100 feet overall length.

| Year | GHLª | Harvest ^a | Vessels | Landings | Average price per pound ^b | Fishery value ^c |
|------|------------|----------------------|---------|----------|---|-------------------------------|
| 2014 | 17,863,874 | 17,666,510 | 16 | 205 | \$0.29 | \$5.01 |
| 2015 | 18,029,404 | 17,636,103 | 14 | 183 | \$0.28 | \$4.76 |
| 2016 | 35,979,072 | 35,519,920 | 24 | 421 | \$0.26 | \$9.85 |
| 2017 | 33,721,562 | 33,247,414 | 24 | 349 | \$0.31 | \$10.07 |
| 2018 | 28,360,000 | 29,055,603 | 32 | 286 | \$0.41 | \$11.82 |
| 2019 | 31,922,600 | 32,345,033 | 37 | 431 | \$0.45 | \$14.18 |
| 2020 | 30,927,000 | 30,928,649 | 40 | 569 | \$0.43 | \$13.07 |
| 2021 | 27,292,000 | 27,585,848 | 29 | 412 | \$0.39 | \$10.33 |

Table 8.-Dutch Harbor Subdistrict state-waters Pacific cod fishery harvest, effort, and value, 2014-2021.

Note: GHL = guideline harvest level.

^a In whole fish pounds.

^b Price per pound of landed weight of fish sold for human consumption.

^c Fishery value based on landed weight, in millions of dollars.

| | | Seaso | n dates | Season |
|------|--|------------|------------|-----------------------|
| Year | Location | Opened | Closed | duration ^a |
| 2014 | East of 167°W long, west of 164°W long and south of 55°30'N lat | 02/11/2014 | 09/01/2014 | 203 |
| 2015 | East of 167°W long, west of 164°W long and south of 55°30'N lat | 02/09/2015 | 03/31/2015 | 51 |
| 2016 | East of 170°W long, south of 55°30'N lat, except waters south of 53°06.11'N lat. | 02/12/2016 | 04/22/2016 | 71 |
| 2017 | East of 170°W long, south of 55°30'N lat, except waters south of 53°06.11'N lat. | 02/09/2017 | 04/08/2017 | 59 |
| 2018 | East of 170°W long, south of 55°30'N lat, except waters south of 53°06.11'N lat. | 01/30/2018 | 03/01/2018 | 31 |
| 2019 | East of 170°W long, west of 162°30′W long, south of 55°30′N lat, except waters south of 53°06.11′N lat. | 01/19/2019 | 02/24/2019 | 37 |
| 2020 | East of 170°W long, west of 162°30'W long, south of 55°30'N lat, except waters south of 53°06.11'N lat. (First opening) | 01/26/2020 | 03/12/2020 | 47 |
| | East of 170°W long, west of 162°30′W long, south of 55°30′N lat, except waters south of 53°06.11′N lat. (Second opening ^b) | 09/17/2020 | 09/29/2020 | 13 |
| 2021 | East of 170°W long, west of 162°30′W long, south of 55°30′N lat, except waters south of 53°06.11′N lat. | 02/02/2021 | 03/25/2021 | 52 |

^a In days.

^b In 2020, about 845,000 pounds of the GHL remained after the initial closure of the season. Interest from vessels in the fall warranted a small reopening after the federal B season closed.

| | | | | | Average price Fisher | | Seasor | n dates | Season |
|------|------------------|----------------------|---------|----------|------------------------|--------------------|------------|------------|-----------------------|
| Year | GHL ^a | Harvest ^a | Vessels | Landings | per pound ^b | value ^c | Opened | Closed | duration ^d |
| 2019 | 100,000 | CF | 1 | 5 | CF | CF | 05/01/2019 | 06/06/2019 | 37 |
| 2020 | 100,000 | CF | 1 | 4 | CF | CF | 05/01/2020 | 12/31/2020 | 245 |
| 2021 | 100,000 | CF | 1 | 3 | CF | CF | 05/01/2021 | 12/31/2021 | 245 |

Table 10.–Dutch Harbor Subdistrict state-waters Pacific cod jig fishery harvest, effort, value, and season dates, 2019–2021.

Note: GHL = guideline harvest level; CF = confidential.

^a In whole fish pounds

^b Price per pound of landed weight.

^c Fishery value based on landed weight, in millions of dollars.

^d In days.

| Species | Harvest ^{a,b} | At-sea discards ^a |
|----------------------------------|------------------------|------------------------------|
| Pollock | 11,647,536 | 179 |
| Pacific cod | 2,524,971 | 53,907 |
| Pacific Ocean perch | 1,197,701 | 111,321 |
| Atka mackerel | 971,313 | 56,454 |
| Rock sole | 254,632 | 57,237 |
| Kamchatka flounder | 210,062 | 84,698 |
| sablefish (black cod) | 119,006 | 0 |
| Arrowtooth flounder | 60,544 | 31,251 |
| squid, majestic | 42,448 | 4,508 |
| skate, other | 35,781 | 57,330 |
| Sharpchin and northern rockfish | 33,475 | 13,357 |
| skate, Alaskan | 21,728 | 5,325 |
| Greenland turbot | 20,064 | 27,565 |
| Other rockfish | 13,207 | 20,217 |
| octopus, North Pacific | 12,858 | 129 |
| jellyfish | 12,857 | 131,729 |
| salmon, chum | 9,218 | 0 |
| sculpin, general | 7,866 | 34,654 |
| Flathead sole | 5,396 | 6,147 |
| Shortraker and rougheye rockfish | 4,956 | 13,333 |
| Other flatfish | 3,339 | 33,161 |
| Yellowfin sole | 2,666 | 4,041 |
| herring, food | 2,282 | 1 |
| skate, Aleutian | 604 | 2,228 |
| skate, White-blotched | 391 | 1,459 |

Table 11.–Top 25 species harvested by weight in pounds, as reported on groundfish fish tickets, in the Bering Sea-Aleutian Islands Area parallel fishery, 2021.

^a In whole fish pounds.

^b Discards at sea not included.

| | | | | | Harvest ^{a,b} | | | At-sea |
|-----------|---------|----------|------------|-----------|------------------------|----------------|------------|-----------------------|
| Year | Vessels | Landings | Trawl | Longline | Pot | Jig/hand troll | Total | discards ^a |
| Pacific c | od | | | | | | | |
| 1995 | 146 | 1,030 | 12,240,195 | 1,990,938 | 5,486,619 | 773,895 | 20,491,646 | 47,630 |
| 1996 | 157 | 956 | 5,760,550 | 444,538 | 11,540,368 | 407,811 | 18,153,267 | 104,680 |
| 1997 | 104 | 378 | 809,297 | 1,465,696 | 2,064,358 | 208,326 | 4,547,676 | 15,988 |
| 1998 | 110 | 400 | 3,975,738 | 4,128,807 | 3,624,994 | 210,316 | 11,939,854 | 75 |
| 1999 | 129 | 500 | 8,963,780 | 1,444,465 | 7,105,630 | 281,754 | 17,795,629 | 4,978 |
| 2000 | 161 | 573 | 5,369,957 | 3,604,038 | 6,523,840 | 102,903 | 15,600,739 | 16,654 |
| 2001 | 129 | 403 | 7,035,831 | 3,973,338 | 3,145,956 | 172,405 | 14,327,530 | 8,468 |
| 2002 | 111 | 369 | 13,768,587 | 481,119 | 1,887,114 | 351,404 | 16,488,224 | 3,493 |
| 2003 | 111 | 450 | 13,456,640 | 841,821 | 4,928,807 | 144,477 | 19,371,745 | 13,358 |
| 2004 | 117 | 568 | 12,247,656 | 1,841,934 | 4,616,764 | 461,553 | 19,167,907 | 33,153 |
| 2005 | 92 | 381 | 4,056,390 | 2,526,537 | 3,116,586 | 233,947 | 9,933,460 | 11,595 |
| 2006 | 107 | 349 | 2,470,193 | 1,238,093 | 2,998,600 | 141,285 | 6,848,171 | 51,423 |
| 2007 | 109 | 337 | 3,924,415 | 1,401,829 | 1,507,579 | 180,322 | 7,014,145 | 23,405 |
| 2008 | 108 | 372 | 2,526,207 | 2,542,514 | 4,582,253 | 327,512 | 9,978,486 | 19,875 |
| 2009 | 81 | 224 | 1,659,521 | 690,143 | 3,697,654 | 27,693 | 6,075,011 | 12,266 |
| 2010 | 80 | 308 | 3,247,752 | 2,106,124 | 4,949,276 | 736,802 | 11,039,954 | 12,990 |
| 2011 | 81 | 278 | 311,666 | 1,500,220 | 2,333,841 | 946,814 | 5,092,541 | 15,856 |
| 2012 | 63 | 204 | 163,562 | 2,413,244 | 1,577,736 | 186,731 | 4,341,273 | 4,994 |
| 2013 | 57 | 188 | 92,961 | 2,660,883 | 605,520 | 23,983 | 3,383,347 | 24,039 |
| 2014 | 34 | 231 | 106,441 | 7,865,970 | 1,186,530 | 1,324 | 9,160,264 | 19,505 |
| 2015 | 67 | 258 | 2,630,870 | 4,065,759 | 1,672,730 | 61,735 | 8,431,094 | 25,682 |
| 2016 | 57 | 159 | 2,220,049 | 1,820,888 | 3,014,448 | 62,247 | 7,117,632 | 26,705 |
| 2017 | 71 | 185 | 656,555 | 2.443,576 | 4,281,339 | 10,326 | 7,391,796 | 33,983 |
| 2018 | 89 | 247 | 792,778 | 5,508,744 | 4,143,572 | 96,388 | 10,541,482 | 33,824 |
| 2019 | 104 | 377 | 557,730 | 3,485,349 | 5,529,318 | 185,109 | 9,757,506 | 32,892 |
| 2020 | 78 | 258 | 315,761 | 3,499,703 | 2,375,052 | 17,531 | 6,208,047 | 3,127 |
| 2021 | 58 | 151 | 201,487 | 961,155 | 1,362,330 | 0 | 2,524,972 | 53,907 |

Table 12.–Bering Sea-Aleutian Islands Area number of vessels and landings, harvest by gear type, and at-sea discards, for Pacific cod, walleye pollock, and Pacific Ocean perch during the parallel fishery, 1995–2021.

-continued-

| | | | Harvest ^{a,b} | | | | | | |
|---------|-----------|----------|------------------------|----------|--------|----------------|------------|-----------------------|--|
| Year | Vessels | Landings | Trawl | Longline | Pot | Jig/hand troll | Total | discards ^a | |
| Walleye | e pollock | | | | | | | | |
| 1995 | 37 | 59 | 28,180,359 | 0 | 170 | 0 | 28,180,529 | 232,153 | |
| 1996 | 40 | 63 | 20,753,566 | 0 | 96,368 | 0 | 20,849,933 | 468,102 | |
| 1997 | 31 | 61 | 18,539,560 | 0 | 0 | 2,165 | 18,541,725 | 197,347 | |
| 1998 | 47 | 92 | 13,385,826 | 6,114 | 1,274 | 0 | 13,393,213 | 154,466 | |
| 1999 | 18 | 32 | 1,466,815 | CF | CF | 0 | 1,467,967 | 41,944 | |
| 2000 | 34 | 50 | 3,647,819 | 5,824 | 2,792 | 0 | 3,656,434 | 5,145 | |
| 2001 | 47 | 71 | 5,460,805 | 27,481 | 781 | 0 | 5,489,068 | 51,487 | |
| 2002 | 28 | 49 | 11,172,229 | CF | CF | 0 | 11,172,548 | 68,374 | |
| 2003 | 38 | 85 | 10,940,817 | CF | CF | 0 | 10,943,496 | 2,869 | |
| 2004 | 50 | 138 | 20,138,475 | 9,402 | 120 | 0 | 20,147,997 | 61,923 | |
| 2005 | 28 | 51 | 5,306,986 | CF | CF | 0 | 5,308,435 | 1,068 | |
| 2006 | 37 | 54 | 2,904,468 | CF | CF | 0 | 2,914,527 | 23,032 | |
| 2007 | 38 | 90 | 6,228,344 | CF | CF | 0 | 6,228,704 | 41,568 | |
| 2008 | 31 | 58 | 5,852,028 | CF | CF | 0 | 5,859,027 | 256 | |
| 2009 | 30 | 65 | 16,958,999 | CF | CF | 0 | 16,959,350 | 8,432 | |
| 2010 | 28 | 72 | 9,264,496 | 3,037 | 0 | 0 | 9,267,534 | 1,161 | |
| 2011 | 31 | 56 | 7,492,409 | 27,972 | 45 | 0 | 7,520,426 | 10,055 | |
| 2012 | 39 | 68 | 2,351,121 | 39,114 | 93 | 752 | 2,391,080 | 19,099 | |
| 2013 | 25 | 47 | 5,846,951 | 9,827 | 7 | 0 | 5,856,785 | 14,717 | |
| 2014 | 23 | 56 | 3,005,535 | 30,811 | 687 | 0 | 3,037,033 | 14,803 | |
| 2015 | 41 | 158 | 14,783,901 | 13,954 | 4,304 | 0 | 14,802,159 | 15,431 | |
| 2016 | 41 | 108 | 5,884,127 | 9 | 2,156 | 0 | 5,886,292 | 332 | |
| 2017 | 38 | 108 | 4,429,159 | 0 | 1,096 | 0 | 4,430,255 | 279 | |
| 2018 | 51 | 138 | 11,754,067 | 7,535 | 2,820 | 0 | 11,764,422 | 2,666 | |
| 2019 | 54 | 115 | 12,564,226 | 1,189 | 655 | 0 | 12,566,070 | 3,419 | |
| 2020 | 69 | 323 | 15,937,523 | 22,097 | 3,932 | 0 | 15,963,552 | 25 | |
| 2021 | 47 | 146 | 11,639,476 | 6,102 | 1,958 | 0 | 11,647,536 | 176 | |

Table 12.–Page 2 of 3.

-continued-

| | | | | | Harve | est ^{a,b} | | At-sea |
|-----------|-------------|----------|-----------|----------|-------|--------------------|-----------|-----------------------|
| Year | Vessels | Landings | Trawl | Longline | Pot | Jig/hand troll | Total | discards ^a |
| Pacific (| Dcean perch | | | | | | | |
| 1995 | 10 | 16 | 10,226 | 0 | 0 | 0 | 10,226 | 23,657 |
| 1996 | 17 | 25 | 13,225 | 0 | 0 | 0 | 13,225 | 55,559 |
| 1997 | 9 | 12 | 2,213 | CF | CF | 0 | 5,907 | 4,625 |
| 1998 | 18 | 30 | 85,704 | 0 | 0 | 0 | 85,704 | 9,409 |
| 1999 | 4 | 5 | CF | CF | CF | 0 | 23,442 | 20,640 |
| 2000 | 3 | 3 | CF | CF | 0 | 0 | 420 | 4,310 |
| 2001 | 4 | 6 | 4,989 | 0 | 0 | 0 | 4,989 | 2,093 |
| 2002 | 10 | 10 | 3,291 | 0 | 0 | 0 | 3,291 | 3,375 |
| 2003 | 18 | 42 | 18,375 | 0 | 0 | 0 | 18,375 | 1,002 |
| 2004 | 25 | 65 | 3,246 | 0 | 0 | 0 | 3,246 | 5,310 |
| 2005 | 9 | 25 | 56,004 | 0 | 0 | 0 | 56,004 | 1,494 |
| 2006 | 13 | 22 | 42,245 | CF | CF | 0 | 42,251 | 2,258 |
| 2007 | 33 | 78 | 265,499 | CF | CF | 0 | 265,533 | 25,696 |
| 2008 | 17 | 35 | 145,478 | 0 | 0 | 0 | 145,478 | 24,820 |
| 2009 | 15 | 33 | 8,895 | 0 | 0 | 0 | 8,895 | 1,804 |
| 2010 | 12 | 34 | 19,641 | CF | 0 | 0 | 19,763 | 3,521 |
| 2011 | 13 | 25 | 112,492 | 38 | 0 | 0 | 112,530 | 143 |
| 2012 | 20 | 44 | 2,210,431 | 0 | 0 | 0 | 2,210,431 | 33,032 |
| 2013 | 7 | 25 | 1,522,527 | 1,600 | 0 | 0 | 1,524,127 | 36,936 |
| 2014 | 5 | 21 | 489,916 | 1,697 | 0 | 0 | 491,613 | 21,875 |
| 2015 | 19 | 63 | 1,078,867 | 923 | 0 | 0 | 1,079,790 | 36,043 |
| 2016 | 11 | 23 | 903,502 | 0 | 0 | 20 | 903,522 | 18,728 |
| 2017 | 11 | 24 | 1,108,021 | 0 | 1 | 0 | 1,108,022 | 26,073 |
| 2018 | 19 | 33 | 145,821 | 10 | 9 | 0 | 145,840 | 194,480 |
| 2019 | 22 | 37 | 372,933 | 570 | 99 | 0 | 373,602 | 129,665 |
| 2020 | 20 | 40 | 1,235,058 | 2 | 1 | 0 | 1,235,061 | 114,180 |
| 2021 | 18 | 46 | 1,197,697 | 0 | 5 | 0 | 1,197,702 | 111,321 |

Table 12.–Page 3 of 3.

 2021
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 a
 In whole fish pounds.

 b
 Discards at sea not included.



Figure 1.-Bering Sea-Aleutian Islands Area for groundfish fishery management.



Figure 2.-Aleutian Islands state-waters sablefish fishery management area.



Figure 3.-Aleutian Islands state-waters black rockfish fishery management area.

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Figure 4.-Management boundaries for the Aleutian Islands state-waters black rockfish fishery.



Figure 5.-Aleutian Islands Subdistrict state-waters Pacific cod fishery management area.



Figure 6.-Dutch Harbor Subdistrict state-waters Pacific cod fishery management area.

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APPENDIX A. ALEUTIAN ISLANDS SUBDISTRICT STATE-WATERS PACIFIC COD FISHERY MANAGEMENT PLAN REGULATIONS BY FISHERY SEASON

Appendix A.-Aleutian Islands Subdistrict (AIS) state-waters Pacific cod fishery management plan regulatory modifications by fishery season.

2006

- GHL established at 3% of federal Bering Sea-Aleutian Islands Area (BSAI) allowable biological catch (ABC)
- No more than 70% of guideline harvest level (GHL) may be available before or after June 10
- Fishery opened on or after March 15, at the conclusion of the parallel catcher-vessel trawl A season
- Gear types: non-pelagic trawl, longline, jig, pot, and hand troll
- Adak vessel length and gear restriction zones in place (trawl and longline gear could not be used from May 1–Sep 15, unless operating in the 60 ft and under vessel size limitation zones near Adak Island)
- Daily vessel harvest limit of 150,000 pounds vessel trip limit of 300,000 pounds
- Mandatory Pacific cod retention, with proceeds from overage forfeited to state
- Daily vessel reporting
- Management plan sunset provision for Dec 31, 2007
- Closed areas: National Marine Fisheries Service (NMFS) Steller sea lion areas, Aleutian Islands Habitat Conservation Area, coral gardens
- Provision for allowing unharvested state-waters Pacific cod to be utilized by NMFS

2007

- Vessel length limits: pot 125 ft or less, trawl 100 ft or less, longline and jig 58 ft or less
- Adak vessel length and gear restriction zones repealed from state-waters fishery management plan
- Vessel trip limit reduced to 150,000 pounds
- Prior to June 10 defined as A season and after June 10 as B season
- Season opening and closure dates: state-waters A season opens 4 days after closure of federal catcher-vessel trawl A season, closure of state-waters season during federal BSAI catcher-vessel trawl B season on April 1, and closure of state-waters season during federal BSAI catcher-vessel pot season for vessels 60 feet or greater overall length (OAL) on September 1
- Regulation allowing unharvested state-waters Pacific cod to be utilized by NMFS repealed
- Management plan sunset provision repealed

2008

• No regulatory changes for the 2008 fishery

2009

| ٠ | Vessel length for B season limited to less than 60 feet OAL for all gear types |
|---|--|
| | |

2010

2011

• No regulatory changes for the 2011 fishery

2012

- State-waters between 175°W long and 178°W long open January 1 and remain open until GHL is reached or June 9, whichever occurs first
 - When only waters between 175°W long and 178°W long are open, vessels using nonpelagic trawl, pot, and jig gear are limited to 60 feet or less OAL and vessels using longline gear are limited to 58 feet or less OAL
 - All state waters of the Aleutian Islands District west of 170°W long open 4 days after the parallel BSAI Pacific cod catcher-vessel trawl fishery closes, or on March 15, whichever occurs first
- Steller sea lion closure for federal/parallel fishery modified
 - With the exception of within 3 nmi of Kanaga Island/Ship Rock (51°46.70'N, 177°20.72'W), state-waters season continued to use those in place prior to 2011

2013

• No regulatory changes for the 2013 fishery

-continued-

Appendix A.-Page 2 of 2.

2014

- Clarification of rollover provisions between A and B season
- Clarification of bycatch provisions
- Clarification to registration requirements during concurrent state and federal Pacific cod fisheries
- Update of Steller sea lion and essential fish habitat closed area references

2015

• No regulatory changes for the 2015 fishery

2016

- Fishery changed to just one season
- GHL established at 27% of federal AI ABC; step up provision of 4% for each year that the GHL is achieved up to a max of 39% of Aleutian Islands (AI) ABC; 15-million-pound cap on GHL

2017

• No regulatory changes for the 2017 fishery

2018

• No regulatory changes for the 2018 fishery

2019

• GHL established at 31% of federal AI ABC; step up provision of 4% for each year that the GHL is achieved up to a max of 39% of AI ABC; step down provision of 4% based on inability to achieve GHL for two consecutive years down to a minimum of 15% of AI ABC; 15-million-pound cap on GHL

2020

- The 2019 GHL was achieved, so the 2020 GHL increased to 35% of the federal AI ABC. However, a maximum regulatory GHL is established for this fishery, therefore the 2020 GHL was 15,000,000 pounds.
- Effective January 18, 2020, the AIS fishery became an exclusive registration area for all gear types.
- Effective February 28, 2020, state-waters fishery opens:
 - Adak Section January 1 for longline gear no more than 58 feet OAL and no more than 60 feet for nonpelagic trawl, mechanical jig, and pot gear
 - All waters of the AIS open 4 days after the BSAI parallel "A" season for the catcher-vessel greater than or equal to 60 feet OAL pot gear fishery is closed for longline gear no more than 58 feet OAL, nonpelagic trawl and mechanical jigging machines no more than 60 feet OAL, and pot gear no more than 100 feet OAL
 - All waters of the AIS open 12:00 PM March 15 for nonpelagic trawl gear no more than 100 feet OAL and pot gear no more than 125 feet OAL

2021

• The 2020 GHL was achieved, so the 2021 GHL increased to 39% of the federal AI ABC. However, a maximum regulatory GHL is established for this fishery, therefore the 2021 GHL was 15,000,000 pounds.

Note: Regulatory changes are shown according to the first fishery season they went into effect.

APPENDIX B. DUTCH HARBOR SUBDISTRICT STATE-WATERS PACIFIC COD FISHERY MANAGEMENT PLAN REGULATIONS BY FISHERY SEASON

Appendix B.–Dutch Harbor Subdistrict state-waters Pacific cod fishery management plan regulatory modifications by fishery season.

2014

- GHL established at 3% of federal Bering Sea-Aleutian Islands Area (BSAI) allowable biological catch (ABC)
- Fishery opens at 12:00 PM 7 days following the closure of the federal BSAI hook-and-line/pot catcher vessel less than 60 feet in overall length sector
- Gear types: pots; no more than 60 pots may be operated from a vessel
- Vessel may not be longer than 58 feet in overall length
- Mandatory Pacific cod retention
- Daily vessel reporting
- Closed areas: National Marine Fisheries Service (NMFS) Steller sea lion areas, Aleutian Islands Habitat Conservation Area, coral gardens

2015

• No regulatory changes for the 2015 fishery

2016

- NMFS separated the BSAI Pacific cod ABC into two areas starting in 2014. The state-waters guideline harvest level (GHL) increased from 3% to 6.4% and was only deducted from the federal Bering Sea (BS) ABC
- Expanded western fishing boundary to 170°W long

2017

• No regulatory changes for the 2017 fishery

2018

• No regulatory changes for the 2018 fishery

2019

- Expanded eastern boundary to 162°30'W long
- GHL increased to 8% of the federal BS ABC; step up provision of 1% each year when the GHL is achieved to a max of 15% of BS ABC
- Established nonexclusive fishery for mechanical jigging gear; GHL of 100,000 pounds; fishery opens May 1; no more than 5 jigging machines may be operated from a vessel

2020

• 2019 GHL for pot gear was achieved, 2020 GHL for pot gear increased to 9% of the federal BS ABC 2021

• 2020 GHL for pot gear was achieved, 2021 GHL for pot gear increased to 10% of the federal BS ABC

Note: Regulatory changes are shown according to the first fishery season they went into effect.