

CFEC Permit Holdings and Estimates of Gross Earnings in the Arctic, Yukon, and Kuskokwim Commercial Salmon Fisheries, 1976-2021

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Commercial Fisheries Entry Commission
8800 Glacier Highway #109
P.O. Box 110302
Juneau, Alaska 99811-0302
(907) 789-6160

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- (FAX) 907-465-6078

For information on alternative formats and questions on this publication, please contact the following:

Commercial Fisheries Entry Commission (CFEC)

Research Section

8800 Glacier Highway, Suite 109

P.O. Box 110302

Juneau, Alaska 99811-0302

(907) 789-6160 *phone*

(907) 789-6170 *fax*

DFG.CFEC.Research@alaska.gov

Abstract

Limited entry permit holdings in the Arctic, Yukon, and Kuskokwim salmon fisheries are examined: the Upper Yukon salmon fish wheel fishery (S08P) is first, followed by a separate examination of the salmon gillnet fisheries located in the Upper Yukon (S04P), Lower Yukon (S04Y), Kuskokwim (S04W), Norton Sound (S04Z), and finally Kotzebue (S04X). This report provides summary statistics on the number of permit holdings, permanent and emergency transfers of permits, permit value, permit latency, new entrants in the fisheries, permit holder mean age, and estimated gross earnings. Some summary statistics are also presented by resident type. A description of the computer files and methods used to generate the statistics are provided.

Prepared by Reid Johnson

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Introduction

This report was prepared by the Commercial Fisheries Entry Commission to provide an overview of limited entry permit holdings and estimated gross earnings in the Arctic, Yukon, and Kuskokwim commercial salmon fisheries.

In 1972, Alaskan voters amended the state constitution to allow limited entry in the state's commercial fisheries. The following year, the Alaska State Legislature enacted the Limited Entry Act (AS 16.43), giving the Commercial Fisheries Entry Commission (CFEC) the authority to administer the program. Permit fisheries are defined by CFEC as a specific gear type for a fishery resource within a defined administrative area.

The Arctic, Yukon, and Kuskokwim salmon permit fisheries were the second group of salmon fisheries that were limited. Limited permits in these fisheries were issued starting in 1976.

Limited entry permits were allocated based upon an individual's past participation and economic dependence on the fishery. To allocate permits among qualified applicants, CFEC developed point systems to measure each individual's relative position in the fishery. The Limited Entry Act also required CFEC to determine levels within the point system where individuals would experience only minor economic hardship if excluded from an initial permit allocation. Persons who were ranked at or below the minor economic hardship level received non-transferable permits, while persons who were ranked above the minor economic hardship level received transferable permits. Among Arctic, Yukon, and Kuskokwim salmon permit fisheries, only one non-transferable permit was issued in the upper Yukon gillnet fishery.

Information regarding season length, openings and closings, size, alternate gear and methods, and other such data can be found in the Alaska Department of Fish and Game's Area Management Reports. This report focuses on the economics of these commercial fisheries. This report provides an overview of limited entry permit holdings and estimated gross earnings in the Arctic, Yukon, and Kuskokwim commercial salmon fisheries.

ADF&G fish tickets identify, among other things, the species harvested. Salmon species on fish tickets are well documented for each of these fisheries. Variations do exist in the financial composition for each of the five major Pacific salmon species commercially harvested in the commercial salmon fisheries from year to year and across each fishery.

Table 0-1. Percent of Total Ex-vessel Value of Arctic, Yukon, and Kuskokwim Salmon Fisheries by Species, 1976-2021

| Species | Upper Yukon Fish Wheel | Upper Yukon Gillnet | Lower Yukon Gillnet | Kuskokwim Gillnet | Norton Sound | Kotzebue Gillnet | All AYK combined |
|---------|---------------------------|------------------------|---------------------------|----------------------|-----------------|---------------------|---------------------|
| Chinook | 11.8% | 32.0% | 62.5% | 17.5% | 12.9% | 0.1% | 37.3% |
| Sockeye | 0.0% | 0.0% | 0.0% | 16.0% | 0.4% | 0.0% | 5.3% |
| Coho | 3.1% | 0.1% | 3.6% | 46.1% | 43.1% | 0.0% | 20.2% |
| Pink | 0.0% | 0.0% | 0.0% | 0.3% | 8.0% | 0.0% | 0.7% |
| Chum | 85.0% | 67.9% | 33.8% | 20.1% | 35.6% | 99.7% | 36.4% |

- Upper Yukon salmon fish wheel and gillnet includes data since 1991. Prior to 1991, the majority of landings were recorded as unspecified salmon roe.
- Note that no commercial Chinook harvest has occurred since 2007 in the Upper Yukon fisheries, since 2011 in the Kuskokwim fishery, and 2005 in the Kotzebue fishery.

Description of the Data Files Used to Generate This Report

Several CFEC data files were used to generate the statistics in this report: the permit file, the census file, and the gross earnings file. The most recently updated data is included in this report. The following is a brief description of each file. Please contact CFEC for more detail about these files if you are interested.

CFEC Permit File

The CFEC permit file contains data on persons who hold or have held CFEC permits. It originates from CFEC permit renewal and permit transfer forms. The permit file contains a data field indicating the declared residency of permit holders as well as their addresses.

In this report, resident status is categorized into three resident types:

- **Local**— permits held by persons residing locally to the ADF&G management area
- **Nonlocal**— permits held by persons who reside in Alaska outside of the ADF&G management area
- **Nonresidents**— permits held by persons who are not residents of Alaska

CFEC Census File

CFEC maintains a computer file of places within Alaska where permit holders reside. Each community is annotated with information on its local or nonlocal status by permit fishery. Tables 0-2 through 0-6 list the communities that are currently designated as local to salmon commercial fisheries in the Census file.

Table 0-2. Communities Local to the Upper Yukon Salmon Fisheries, as Indicated in the CFEC Census File

| | | | | |
|-------------------|--------------------|-------------------|--------------------|------------------|
| Anvik | Circle City | Fort Wainwright | Koyukuk | Richardson |
| Badger | Circle Hot Springs | Fort Yukon | Long | Ruby |
| Beaver | Cleary Summit | Four Mile Road | Manley Hot Springs | Salcha |
| Big Horn | College | Fox | Minto | Shageluk |
| Birch Creek | Eagle | Galena | Moose Creek | South Van Horn |
| Birch Lake | Eagle River | Goldstream | Murphy Dome | Steele Creek |
| Birches | Eagle Village | Grant Creek | Nenana | Stevens Village |
| Campion Station | Edna Bay | Grayling | North Pole | Sulatna Crossing |
| Central | Eielson Afb | Harding Lake | Nulato | Tanana |
| Chatanika | Ester | Harding-Birch Lks | Pedro Dome | Tofty |
| Chena Hot Springs | Eureka | Kallands | Pleasant Valley | Two Rivers |
| Chena Ridge | Fairbanks | Kaltag | Poorman | Venetie |
| Circle | Farmers Loop | Kokrines | Rampart | Venetie Landing |

Table 0-3. Communities Local to the Lower Yukon Salmon Fishery, as Indicated in the CFEC Census File

| | | | | |
|---------------|---------------|--------------|------------------|-----------------|
| Alakanuk | Chuloonawik | Igiak | Lamont | Pikmiktalik |
| Andreafsky | Emmonak | Ingrihak | Marshall | Pilot Station |
| Bill Moores | Fish Village | Kako Landing | Mountain Village | Pitkas Point |
| Black | Fortuna Ledge | Kanapak | New Hamilton | Russian Mission |
| Cape Romanzof | Hamilton | Kotlik | Nunam Iqua | Scammon Bay |
| Chevak | Holy Cross | Kravaksarak | Ohogamiut | Sheldon Point |
| Chulloonawick | Hooper Bay | Kwikpak | Paimiut | St. Mary's |

Table 0-4. Communities Local to the Kuskokwim Salmon Gillnet Fishery, as Indicated in the CFEC Census File

| | | | | |
|---------------|---------------|---------------|---------------|---------------|
| Aguikchuk | Chefornak | Kinegnak | Napaimiut | Platinum |
| Akiachak | Chuathbaluk | Kipnuk | Napakiak | Quinhagak |
| Akiak | Crooked Creek | Kongiganak | Napaskiak | Toksook Bay |
| Akolmiut | Eek | Kuskovak | Nash Harbor | Tuluksak |
| Akulurak | Georgetown | Kwethluk | Nelson Island | Tuntutuliak |
| Aniak | Goodnews Bay | Kwigillingok | Newtok | Tununak |
| Anogok | Inger | Lower Kalskag | Nightmute | Upper Kalskag |
| Atmautluak | Itulilik | Marvel Creek | Nunapitchuk | |
| Bethel | Kalskag | Mekoryuk | Nyac | |
| Cape Newenham | Kasigluk | Metarvik | Oscarville | |

Table 0-5. Communities Local to the Norton Sound Salmon Gillnet Fishery, as Indicated in the CFEC Census File

| | | | | |
|----------------|------------------|--------------------|---------------|----------------|
| Brevig Mission | Granite Mountain | Nome | Sinuk | Tin City |
| Cape York | Haycock | Perkinsville | Solomon | Unalakleet |
| Council | Iron Creek | Pilgrim Springs | St. Michael | Wales |
| Dahl | Koyuk | Port Clarence | Stebbins | White Mountain |
| Egavik | Lost River | Saint Michael | Sullivan Camp | York |
| Elim | Marys Igloo | Serpentine Hot Spr | Taylor | |
| Golovin | Moses Point | Shaktoolik | Teller | |

Table 0-6. Communities Local to the Kotzebue Salmon Gillnet Fishery, as Indicated in the CFEC Census File

| | | | | |
|----------|------------------|-------------|--------------|------------|
| Ambler | Chicago Creek | Kiana | Kotzebue | Selawik |
| Bornite | Deering | Kivalina | Noatak | Shishmaref |
| Buckland | Fink Creek-Utica | Klery Creek | Noorvik | Shungnak |
| Candle | Kalla | Kobuk | Red Dog Mine | |

CFEC Gross Earnings File

The CFEC gross earnings file is based on ADF&G fish tickets and is augmented with CFEC permit holder and other data. The ex-vessel value for salmon in the CFEC gross earnings file largely come from the Commercial Operators Annual Report and ADF&G fish tickets with some additional information provided by processors. ADF&G salmon districts were mapped out from statistical areas using information provided by ADF&G. Several processes to validate and enhance fields such as vessel number and statistical area were undertaken to increase accuracy of this report.

Data Display

Percentages are rounded to the nearest tenth of a percent where displayed. Dollars are rounded to whole dollars. As such, rounded aggregates may appear to not total due to rounding. If you would like more precise figures then please contact the CFEC research unit. Some counts will vary from previous research projects insofar as the data has been corrected and updated.

Chapter 1 Upper Yukon Salmon Fish Wheel Fishery

S08P Permit Holdings

Limited entry permits for the upper Yukon salmon fish wheel fishery (S08P permits) were issued starting in 1976. CFEC has issued 165 S08P permits. Table 1-1 indicates the initial distribution and historical net changes in permit holdings for the fishery. Of this total, Alaska Locals received 95.8% (158/165) of the permits, Nonlocal Alaskans received 3.6% (6/165) of the permits, and Nonresidents received 0.6% (1/165). Every permit issued in this fishery was a transferable permit.

Table 1-1. Initial Issuance and Year-end 2021 Totals of Upper Yukon Salmon Fish Wheel Permits, With Net Changes Due to Permit Transfers, Migrations, and Cancellations, by Resident Type

| INITIAL ISSUE | | | TRANSFERS | | MIGRATIONS | | CANCELLED | | 2021 YEAR-END | |
|---------------|------------|---------------|-----------|-----------------------------|------------|-----------------------------|------------|-----------------------------|---------------|---------------|
| Residency | Total | Percent | Change | Percent Change from Initial | Change | Percent Change from Initial | Change | Percent Change from Initial | Total | Percent |
| Local | 158 | 95.8% | 9 | 5.7% | -23 | -14.6% | -59 | -37.3% | 79 | 89.7% |
| Nonlocal | 6 | 3.6% | -8 | -133.3% | 17 | 283.3% | -8 | -133.3% | 7 | 7.9% |
| Nonresident | 1 | 0.6% | -1 | -100.0% | 6 | 600.0% | -4 | -400.0% | 2 | 2.3% |
| Total | 165 | 100.0% | 0 | 0.0% | 0 | 0.0% | -77 | -42.4% | 88 | 100.0% |

The number of permits held by each resident type can change for three reasons: permits can be transferred to other resident types (transfer); permit holders can move from one location to another (migration); or permits can be cancelled (such as when a permit holder does not pay the renewal fee for two consecutive). This table indicates the extent to which these factors have contributed to net changes in permit holdings in this fishery.

Transfers of S08P Permits

Under the Limited Entry Act's terms of free transferability, permits may be sold, traded, given away, or inherited. CFEC requires the completion of a survey with each transfer.¹ The surveys provide information such as transfer acquisition methods, the relationship between individuals in the transaction, and the sale amount for instances when the permit is sold.

Table 1-2. Transfer Acquisition Methods for Upper Yukon Salmon Fish Wheel Permits, 1980-2021

| Acquisition Method | Upper Yukon Salmon Fish Wheel | | Combined Upper Yukon Salmon | | All Fisheries Statewide | |
|--------------------|-------------------------------|---------|-----------------------------|---------|-------------------------|---------|
| | Count | Percent | Count | Percent | Count | Percent |
| Gift | 109 | 39.2% | 157 | 40.2% | 13,403 | 32.5% |
| Sale | 119 | 42.8% | 166 | 42.5% | 24,174 | 58.6% |
| Trade | 7 | 2.5% | 11 | 2.8% | 531 | 1.3% |
| Other | 43 | 15.5% | 57 | 14.6% | 3,134 | 7.6% |
| Total | 278 | | 391 | | 41,242 | |

Table 1-2 compares transfer acquisition methods for the S08P permits, the combined upper Yukon salmon permit types, and all limited entry permits between 1980 and 2021. Just under 40 percent of all S08P permit transfers were gifts (109/278), just under half of all transfers were sales (42.8%, or 119/278), and a smaller percentage were trades (2.5% or 7/278) or other (15.5% or 43/278). The annual acquisition methods for S08P permits can be viewed in a different publication.²

Table 1-3. Relationships of Transferor to Transfer Recipients for Upper Yukon Salmon Fish Wheel Permits, 1980-2021

| Relationship | Upper Yukon Salmon Fish Wheel | | Combined Upper Yukon Salmon | | All Fisheries Statewide | |
|----------------------------|-------------------------------|---------|-----------------------------|---------|-------------------------|---------|
| | Count | Percent | Count | Percent | Count | Percent |
| Business Partner/Friend | 62 | 22.3% | 83 | 21.2% | 7,713 | 18.7% |
| Member of Immediate Family | 144 | 51.8% | 204 | 52.2% | 13,850 | 33.6% |
| Other Relative | 13 | 4.7% | 17 | 4.3% | 1,846 | 4.5% |
| Other | 59 | 21.2% | 87 | 22.3% | 17,833 | 43.2% |
| Total | 278 | | 391 | | 41,242 | |

Table 1-3 shows the relationships between transferors and transfer recipients for S08P permits, and compares S08P permit transfers with the combined upper Yukon salmon permit types, and all limited entry permits from 1980 to 2021. Transfers within the family, both immediate family members and other relatives, total 56.5% (157/278) of all transfers. This compares to 56.5% (221/391) for all upper Yukon salmon permit types combined, and 38.1% (15,696/41,242) for all limited entry permits statewide.

¹ CFEC implemented the transfer survey in 1980.

² See *Changes in the Distribution of Alaska's Commercial Fisheries Entry Permits, 1975-2021*, CFEC Report No. 22-2N.

Emergency Transfers of S08P Permits

Commercial landings can be made with either permanently-held permits or with permits held temporarily through emergency transfers. Emergency transfers (ET) of permits are granted if illness, disability, death, required military or government service, or other unavoidable hardship of a temporary, unexpected, and unforeseen nature prevents the permanent permit holder from participating in the fishery. “Hardship” does not include the results of a permit holder’s own economic decisions, or the results of economic, biological or regulatory variables which are normally part of the risk of doing business as a fisherman. At the end of the year, ET permits automatically revert to the permanent permit holder.

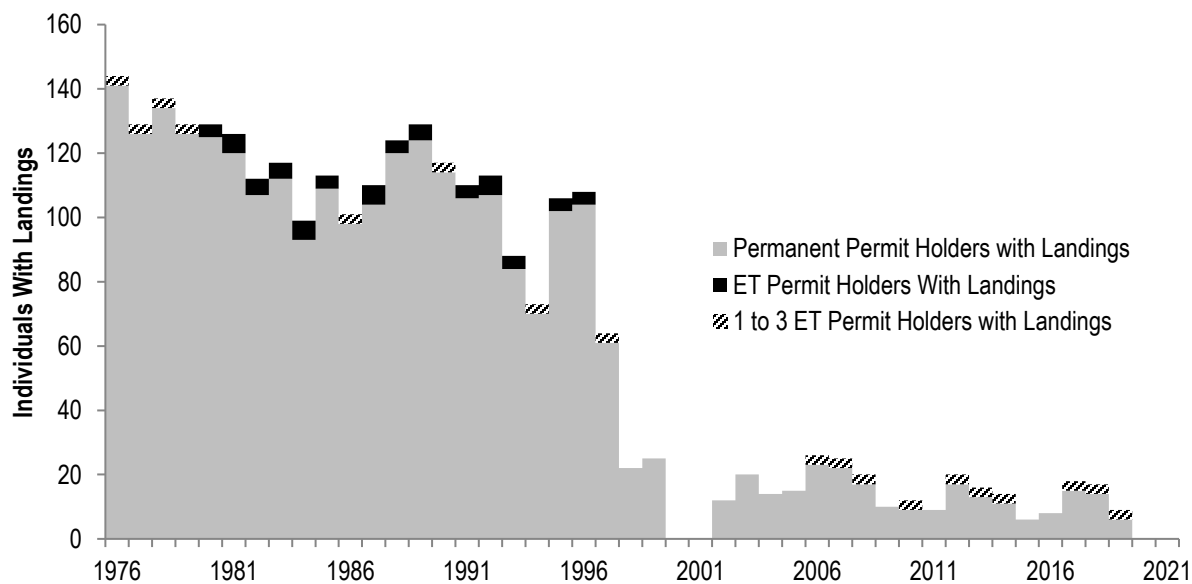
Table 1-4 and Figure 1-1 show the total number of individuals who recorded landings each year, and of that group, the number of individuals who made landings with ET permits. Some individuals who made landings with ET permits also made landings with permanent permits in the same year.

Table 1-4. Use of Emergency Transfer Permits in the Upper Yukon Salmon Fish Wheel Fishery, 1976-2021

| Year | Individuals With Landings | ET Permit Holders With Landings | ET Rate | Year | Individuals With Landings | ET Permit Holders With Landings | ET Rate | Year | Individuals With Landings | ET Permit Holders With Landings | ET Rate |
|------|---------------------------|---------------------------------|---------|------|---------------------------|---------------------------------|---------|------|---------------------------|---------------------------------|---------|
| 1976 | 144 | 1 to 3 | - | 1992 | 113 | 6 | 5.3% | 2008 | 20 | 1 to 3 | - |
| 1977 | 129 | 1 to 3 | - | 1993 | 88 | 4 | 4.5% | 2009 | 10 | 0 | 0.0% |
| 1978 | 137 | 1 to 3 | - | 1994 | 73 | 1 to 3 | - | 2010 | 12 | 1 to 3 | - |
| 1979 | 129 | 1 to 3 | - | 1995 | 106 | 4 | 3.8% | 2011 | 9 | 0 | 0.0% |
| 1980 | 129 | 4 | 3.1% | 1996 | 108 | 4 | 3.7% | 2012 | 20 | 1 to 3 | - |
| 1981 | 126 | 6 | 4.8% | 1997 | 64 | 1 to 3 | - | 2013 | 16 | 1 to 3 | - |
| 1982 | 112 | 5 | 4.5% | 1998 | 22 | 0 | 0.0% | 2014 | 14 | 1 to 3 | - |
| 1983 | 117 | 5 | 4.3% | 1999 | 25 | 0 | 0.0% | 2015 | 6 | 0 | 0.0% |
| 1984 | 99 | 6 | 6.1% | 2000 | 0 | 0 | - | 2016 | 8 | 0 | 0.0% |
| 1985 | 113 | 4 | 3.5% | 2001 | 0 | 0 | - | 2017 | 18 | 1 to 3 | - |
| 1986 | 101 | 1 to 3 | - | 2002 | 12 | 0 | 0.0% | 2018 | 14 | 1 to 3 | - |
| 1987 | 110 | 6 | 5.5% | 2003 | 20 | 0 | 0.0% | 2019 | 6 | 1 to 3 | - |
| 1988 | 124 | 4 | 3.2% | 2004 | 14 | 0 | 0.0% | 2020 | 0 | 0 | 0.0% |
| 1989 | 129 | 5 | 3.9% | 2005 | 15 | 0 | 0.0% | 2021 | 0 | 0 | 0.0% |
| 1990 | 117 | 1 to 3 | - | 2006 | 26 | 1 to 3 | - | | | | |
| 1991 | 110 | 4 | 3.6% | 2007 | 25 | 1 to 3 | - | | | | |

When fewer than four individuals make landings, figures are masked due to confidentiality.

Figure 1-1. Use of Emergency Transfer Permits in the Upper Yukon Salmon Fish Wheel Fishery, 1975-2021



Latent S08P Permits

CFEC regulations require individuals to renew their limited entry permits annually, regardless of whether they fish. Permits that are not used (don't record landings) each year are referred to herein as "latent" permits for that year.

Table 1-5 indicates the total number of issued S08P permits issued each year, the number of permits fished (with commercial landings), and the rate of permit latency. Issued permits include both interim entry and permanent permits. Note that for this table, in years when a single individual held an interim-entry permit and was also issued a permanent permit, only the permanent permit is counted. The rate of latency is depicted in Figure 1-2.

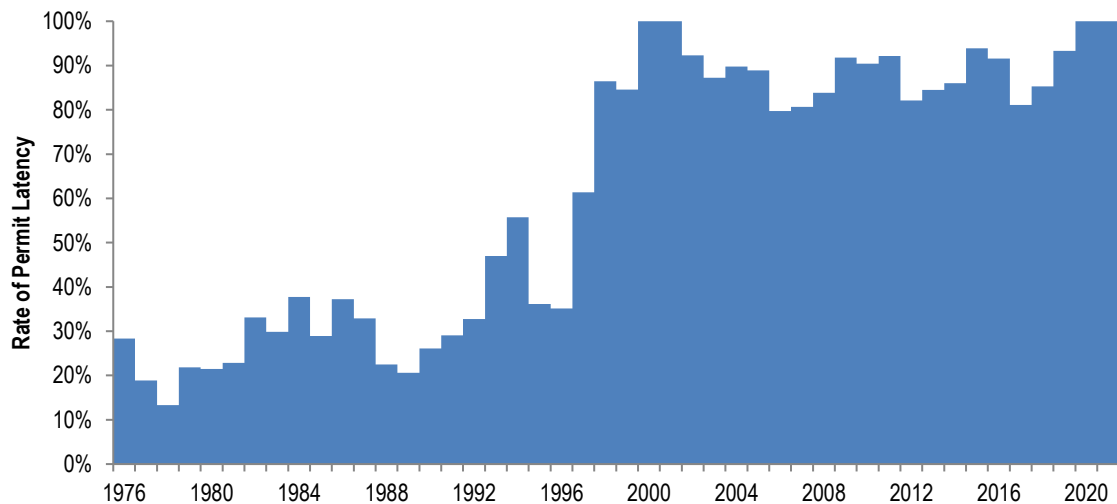
There are many reasons why an individual might not fish in any given year. This table and figure do not explain any of these reasons.

Table 1-5. Upper Yukon Salmon Fish Wheel Permit Latency, 1976-2021

| Year | Permits | | Latency | Year | Permits | | Latency | Year | Permits | | Latency |
|------|---------|--------|---------|------|---------|--------|---------|------|---------|--------|---------|
| | Issued | Fished | Rate | | Issued | Fished | Rate | | Issued | Fished | Rate |
| 1976 | 201 | 144 | 28.4% | 1992 | 165 | 111 | 32.7% | 2008 | 124 | 20 | 83.9% |
| 1977 | 159 | 129 | 18.9% | 1993 | 166 | 88 | 47.0% | 2009 | 122 | 10 | 91.8% |
| 1978 | 158 | 137 | 13.3% | 1994 | 165 | 73 | 55.8% | 2010 | 115 | 11 | 90.4% |
| 1979 | 165 | 129 | 21.8% | 1995 | 166 | 106 | 36.1% | 2011 | 115 | 9 | 92.2% |
| 1980 | 163 | 128 | 21.5% | 1996 | 165 | 107 | 35.2% | 2012 | 106 | 19 | 82.1% |
| 1981 | 162 | 125 | 22.8% | 1997 | 163 | 63 | 61.3% | 2013 | 103 | 16 | 84.5% |
| 1982 | 166 | 111 | 33.1% | 1998 | 162 | 22 | 86.4% | 2014 | 100 | 14 | 86.0% |
| 1983 | 164 | 115 | 29.9% | 1999 | 162 | 25 | 84.6% | 2015 | 98 | 6 | 93.9% |
| 1984 | 159 | 99 | 37.7% | 2000 | 161 | 0 | 100.0% | 2016 | 95 | 8 | 91.6% |
| 1985 | 159 | 113 | 28.9% | 2001 | 157 | 0 | 100.0% | 2017 | 95 | 18 | 81.1% |
| 1986 | 161 | 101 | 37.3% | 2002 | 156 | 12 | 92.3% | 2018 | 95 | 14 | 85.3% |
| 1987 | 161 | 108 | 32.9% | 2003 | 157 | 20 | 87.3% | 2019 | 90 | 6 | 93.3% |
| 1988 | 160 | 124 | 22.5% | 2004 | 137 | 14 | 89.8% | 2020 | 89 | 0 | 100.0% |
| 1989 | 160 | 127 | 20.6% | 2005 | 135 | 15 | 88.9% | 2021 | 88 | 0 | 100.0% |
| 1990 | 157 | 116 | 26.1% | 2006 | 128 | 26 | 79.7% | | | | |
| 1991 | 155 | 110 | 29.0% | 2007 | 124 | 24 | 80.6% | | | | |

- When an individual with an interim-entry permit is issued a permanent permit in the same year, only the permanent permit is counted in the above table.
- 'Permits Fished' is the number of CFEC permits that were used to record commercial landings in that year.

Figure 1-2. Upper Yukon Salmon Fish Wheel Permit Latency Rate, 1976-2021



New Entrants into the Upper Yukon Salmon Fish Wheel Fishery

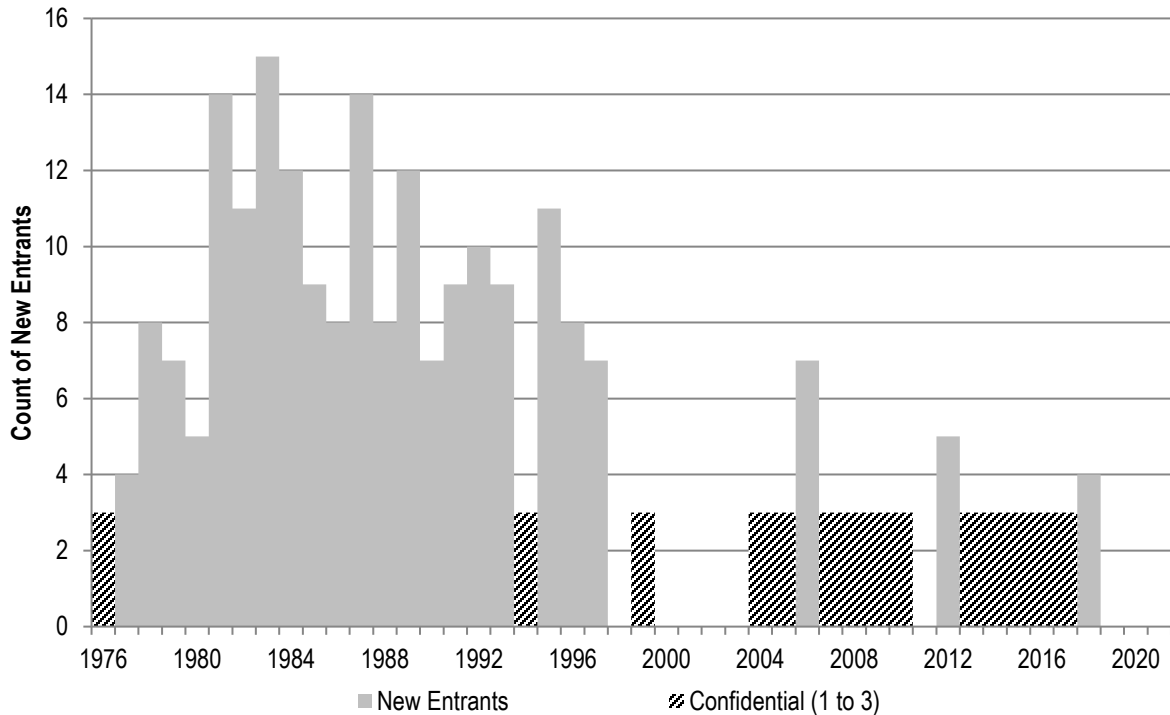
New entrants are defined herein as individuals who, for the first time, record a landing on a permanent S08P permit and are displayed both in Table 1-6 and Figure 1-3. It is important to note that initial permit holders are not considered new entrants because they needed a proven fishing history prior to 1976 in order to become an initial permit holder. Individuals who only make landings on an emergency transfer or interim-entry permit for any given year are not considered in this table.

Table 1-6. New Entrants into the Upper Yukon Salmon Fish Wheel Fishery, 1976-2021

| Year | Individuals w/Landings | New Entrants Count | New Entrants Percent | Year | Individuals w/Landings | New Entrants Count | New Entrants Percent | Year | Individuals w/Landings | New Entrants Count | New Entrants Percent | Year | Individuals w/Landings | New Entrants Count | New Entrants Percent |
|------|------------------------|--------------------|----------------------|------|------------------------|--------------------|----------------------|------|------------------------|--------------------|----------------------|------|------------------------|--------------------|----------------------|
| 1976 | 28 | 1 to 3 | - | 1989 | 105 | 12 | 11.4% | 2002 | 12 | 0 | 0.0% | 2015 | 6 | 1 to 3 | - |
| 1977 | 87 | 4 | 4.6% | 1990 | 98 | 7 | 7.1% | 2003 | 20 | 0 | 0.0% | 2016 | 8 | 1 to 3 | - |
| 1978 | 93 | 8 | 8.6% | 1991 | 92 | 9 | 9.8% | 2004 | 14 | 1 to 3 | - | 2017 | 18 | 1 to 3 | - |
| 1979 | 92 | 7 | 7.6% | 1992 | 101 | 10 | 9.9% | 2005 | 15 | 1 to 3 | - | 2018 | 14 | 4 | 28.6% |
| 1980 | 92 | 5 | 5.4% | 1993 | 86 | 9 | 10.5% | 2006 | 26 | 7 | 26.9% | 2019 | 6 | 0 | 0 |
| 1981 | 99 | 14 | 14.1% | 1994 | 72 | 1 to 3 | - | 2007 | 25 | 1 to 3 | - | 2020 | 0 | 0 | - |
| 1982 | 89 | 11 | 12.4% | 1995 | 104 | 11 | 10.6% | 2008 | 20 | 1 to 3 | - | 2021 | 0 | 0 | - |
| 1983 | 93 | 15 | 16.1% | 1996 | 106 | 8 | 7.5% | 2009 | 10 | 1 to 3 | - | | | | |
| 1984 | 84 | 12 | 14.3% | 1997 | 62 | 7 | 11.3% | 2010 | 12 | 1 to 3 | - | | | | |
| 1985 | 94 | 9 | 9.6% | 1998 | 22 | 0 | 0.0% | 2011 | 9 | 0 | 0.0% | | | | |
| 1986 | 82 | 8 | 9.8% | 1999 | 25 | 1 to 3 | - | 2012 | 20 | 5 | 25.0% | | | | |
| 1987 | 88 | 14 | 15.9% | 2000 | 0 | 0 | - | 2013 | 16 | 1 to 3 | - | | | | |
| 1988 | 100 | 8 | 8.0% | 2001 | 0 | 0 | - | 2014 | 14 | 1 to 3 | - | | | | |

- This table excludes individuals with interim-entry and emergency transfer permits.

Figure 1-3. New Entrants into the Upper Yukon Salmon Fish Wheel Fishery, 1976-2021



Age of S08P Permit Holders

Table 1-7. Mean Age of Select CFEC Permit Holders and the General Alaskan Population

| Year | S08P | Combined Upper Yukon Salmon | Statewide All Permits | Mean AK Worker Age |
|------|------|--------------------------------|--------------------------|-----------------------|
| 1980 | 41.6 | 42.2 | 38.9 | 33.4 |
| 1981 | 42.2 | 42.9 | 39.9 | 33.5 |
| 1982 | 43.7 | 43.6 | 40.0 | 33.6 |
| 1983 | 42.8 | 43.1 | 40.2 | 33.7 |
| 1984 | 42.7 | 43.1 | 40.4 | 33.8 |
| 1985 | 42.6 | 43.3 | 40.8 | 34.0 |
| 1986 | 43.0 | 43.9 | 41.0 | 34.2 |
| 1987 | 42.9 | 43.5 | 40.9 | 34.5 |
| 1988 | 43.4 | 44.1 | 41.2 | 34.9 |
| 1989 | 44.6 | 45.2 | 41.5 | 35.3 |
| 1990 | 44.5 | 45.4 | 42.0 | 35.5 |
| 1991 | 45.9 | 46.8 | 42.5 | 35.9 |
| 1992 | 47.5 | 48.0 | 42.9 | 36.2 |
| 1993 | 48.0 | 48.6 | 43.5 | 36.5 |
| 1994 | 48.1 | 49.1 | 44.0 | 36.7 |
| 1995 | 48.1 | 49.4 | 44.4 | 37.0 |
| 1996 | 47.4 | 49.1 | 44.8 | 37.2 |
| 1997 | 48.0 | 49.6 | 45.1 | 37.4 |
| 1998 | 48.1 | 50.1 | 45.6 | 37.6 |
| 1999 | 48.8 | 50.5 | 46.0 | 37.8 |
| 2000 | 50.0 | 51.6 | 46.4 | 37.9 |
| 2001 | 51.3 | 52.8 | 46.9 | 38.1 |
| 2002 | 51.9 | 53.6 | 47.4 | 38.3 |
| 2003 | 52.5 | 54.4 | 47.9 | 38.4 |
| 2004 | 53.0 | 54.8 | 48.2 | 38.6 |
| 2005 | 53.8 | 55.6 | 48.4 | 38.7 |
| 2006 | 53.8 | 55.8 | 48.7 | 38.8 |
| 2007 | 54.4 | 56.4 | 48.9 | 38.9 |
| 2008 | 55.6 | 56.8 | 49.0 | 39.0 |
| 2009 | 56.1 | 57.4 | 49.3 | 39.1 |
| 2010 | 56.8 | 57.9 | 49.5 | 39.2 |
| 2011 | 57.1 | 58.0 | 49.6 | 39.4 |
| 2012 | 58.5 | 59.2 | 49.8 | 39.4 |
| 2013 | 58.1 | 59.1 | 50.0 | 39.5 |
| 2014 | 58.7 | 59.6 | 50.2 | 39.5 |
| 2015 | 59.6 | 60.5 | 50.6 | 39.5 |
| 2016 | 60.7 | 61.6 | 50.9 | 39.6 |
| 2017 | 61.5 | 62.5 | 51.3 | 40.1 |
| 2018 | 61.4 | 62.5 | 51.7 | 40.1 |
| 2019 | 62.1 | 63.1 | 51.9 | 40.1 |
| 2020 | 62.3 | 63.4 | 52.3 | 40.0 |
| 2021 | 63.2 | 64.1 | 52.6 | 39.9 |

- Mean AK Working Age is the annual average age of all Alaskans age 16-64 as reported by the Alaska Department of Labor and Workforce Development, Research and Analysis Section.
- Age data from the CFEC permit file is as of December 31st of each year.

Table 1-7 shows the annual mean age of four different cohorts of people: 1) Upper Yukon salmon fish wheel (S08P) permit holders; 2) combined upper Yukon salmon permit holders; 3) all CFEC limited entry permit holders; and 4) the Alaskan working age population.

Note that these figures include ages of permit holders for both transferable and non-transferable permits; however, there were no non-transferable S08P permits issued. Some individuals hold permits in more than one fishery; in these cases, the age of the permit holder is counted once for each permit that he or she holds.

The mean age of the general Alaskan working age population has increased 6.5 years between 1980 and 2021. The percent change in ages over the same period for all CFEC permit holders was an increase of 13.7 years, and an increase of 21.9 years for the combined upper Yukon salmon permit holders.

For S08P permit holders, the mean age increased 21.6 years.

S08P Permit Value

Many permit transfers are non-monetary transactions (see Table 1-2). Table 1-8 considers solely arms-length market transactions where permits are sold. CFEC estimated values are expressed in both nominal and real (adjusted for inflation) terms.

Table 1-8. CFEC Estimated Value of Upper Yukon Salmon Fish Wheel Permits

| Year | S08P Permit Sales | Nominal Permit Value | Real Permit Value | Real Standard Deviation |
|------|-------------------|----------------------|-------------------|-------------------------|
| 1987 | 9 | \$9,100 | \$22,500 | \$3,900 |
| 1988 | 4 | \$9,600 | \$22,900 | \$2,600 |
| 1989 | 3 | \$12,900 | \$29,500 | \$3,100 |
| 1990 | 4 | \$12,500 | \$26,900 | \$5,400 |
| 1991 | 7 | \$10,800 | \$22,400 | \$2,500 |
| 1992 | 4 | \$9,900 | \$19,800 | \$2,500 |
| 1993 | 2 | \$10,600 | \$21,000 | \$1,000 |
| 1994 | 2 | \$8,100 | \$13,600 | \$5,900 |
| 1995 | 1 | \$7,900 | \$14,200 | \$5,100 |
| 1996 | 4 | \$8,900 | \$15,900 | \$1,700 |
| 1997 | 2 | \$8,900 | \$15,800 | \$600 |
| 1998 | 2 | \$8,600 | \$14,600 | \$1,200 |
| 1999 | 0 | \$8,600 | \$14,600 | \$1,200 |
| 2000 | 0 | \$8,600 | \$14,600 | \$1,200 |
| 2001 | 0 | \$8,600 | \$14,600 | \$1,200 |
| 2002 | 1 | \$7,600 | \$10,500 | \$3,400 |
| 2003 | 1 | \$6,800 | \$9,400 | \$2,100 |
| 2004 | 0 | \$6,800 | \$9,400 | \$2,100 |
| 2005 | 0 | \$6,800 | \$9,400 | \$2,100 |
| 2006 | 1 | \$5,800 | \$7,100 | \$2,400 |
| 2007 | 0 | \$5,800 | \$7,100 | \$2,400 |
| 2008 | 2 | \$5,000 | \$6,500 | \$800 |
| 2009 | 1 | \$4,800 | \$6,400 | \$300 |
| 2010 | 0 | \$4,800 | \$6,400 | \$300 |
| 2011 | 0 | \$4,800 | \$6,400 | \$300 |
| 2012 | 1 | \$4,800 | \$5,600 | \$800 |
| 2013 | 2 | \$4,000 | \$4,600 | \$1,700 |
| 2014 | 1 | \$3,900 | \$5,000 | \$1,200 |
| 2015 | 1 | \$4,100 | \$5,300 | \$1,200 |
| 2016 | 0 | \$4,100 | \$5,300 | \$1,200 |
| 2017 | 0 | \$4,100 | \$5,300 | \$1,200 |
| 2018 | 1 | \$4,600 | \$4,900 | \$700 |
| 2019 | 0 | \$4,600 | \$4,900 | \$700 |
| 2020 | 0 | \$4,600 | \$4,900 | \$700 |
| 2021 | 0 | \$4,600 | \$4,900 | \$700 |

- Permit values represent averages of all arms-length sale transactions over the year.
- Real permit values were calculated using the 2022 Consumer Price Index from the U.S. Bureau of Labor Statistics.

Participation and Earnings

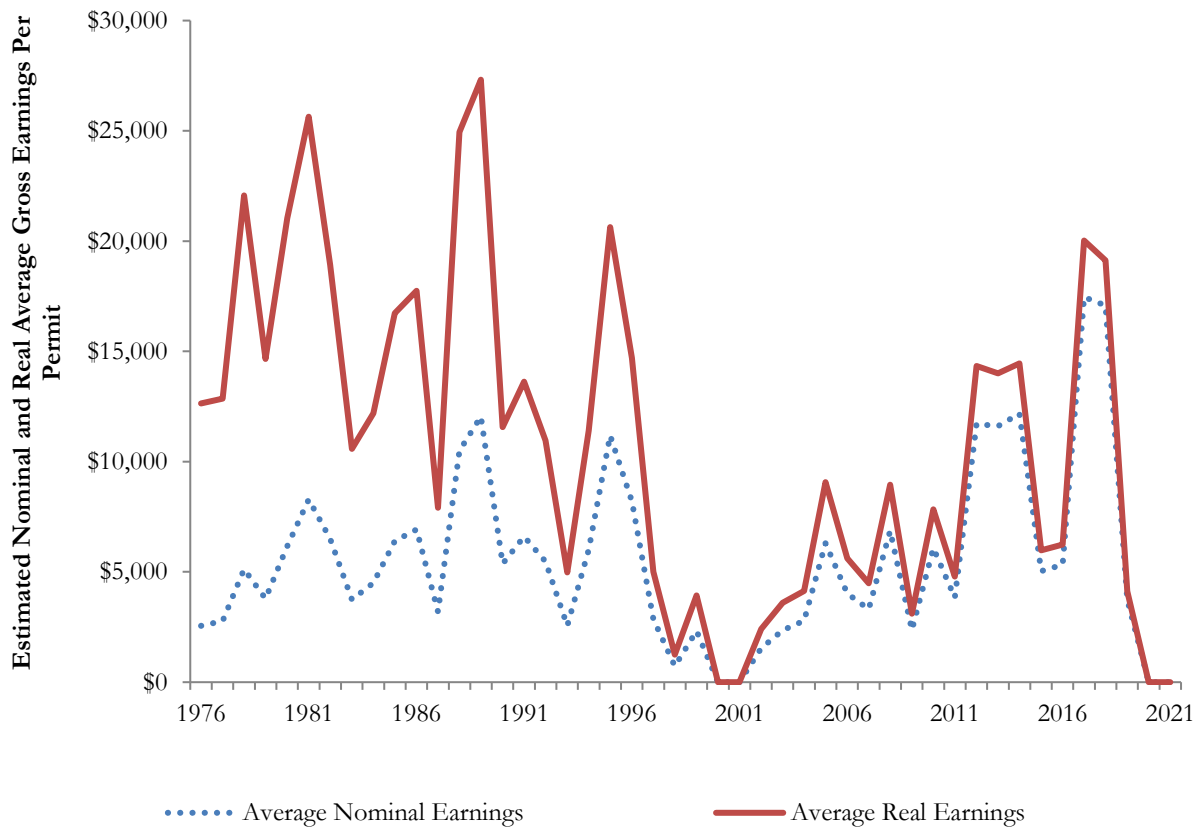
Earnings are estimated from weighted average ex-vessel prices, and as noted earlier, largely stem from the ADF&G Commercial Operators Annual Report and fish ticket values. Earnings shown in Figure 1-4 are for both nominal and real dollars using the 2022 Consumer Price Index from the U.S. Bureau of Labor Statistics.

Permit counts include interim-entry permits and permanent permits. Interim-entry permits are issued to individuals during the period when their applications for permanent permits are in adjudication. The last year an interim-entry permit was held for the upper Yukon salmon fish wheel fishery was in 2001. Some individuals made landings on both an interim-entry permit and subsequently on their newly issued permanent permit in the same year; for these instances, only the permanent permit is counted in this report.

Table 1-9 reports the number of permits issued, permits with landings, and estimated gross earnings in the upper Yukon salmon fish wheel fishery from 1976 to 2021. Note that the figures by permit in this table span the entire year, regardless of who held the permit or however many times the permit was transferred.

Table 1-10 reports the number of permit holders (people) and estimated real (inflation-adjusted) gross earnings by each resident type.

Figure 1-4. Estimated Nominal and Real Average Gross Earnings Per Upper Yukon Salmon Fish Wheel Permit



- Real earnings are adjusted for inflation using the 2022 U.S. Bureau of Labor Statistics Consumer Price Index.

Table 1-9. Estimated Total Gross Earnings (Real and Nominal) for the Upper Yukon Salmon Fish Wheel Fishery, With Average Earnings (Real) by Permit, 1976-2021

| Year | Permits Issued | Total Gross Earnings | | Permits With Landings | Average Real Earnings |
|------|----------------|----------------------|-------------|-----------------------|-----------------------|
| | | Nominal | Real | | |
| 1976 | 201 | \$368,275 | \$1,819,412 | 144 | \$12,635 |
| 1977 | 159 | \$357,336 | \$1,657,599 | 129 | \$12,850 |
| 1978 | 158 | \$701,727 | \$3,024,360 | 137 | \$22,076 |
| 1979 | 165 | \$488,234 | \$1,891,369 | 129 | \$14,662 |
| 1980 | 163 | \$789,593 | \$2,693,811 | 128 | \$21,045 |
| 1981 | 162 | \$1,036,582 | \$3,205,201 | 125 | \$25,642 |
| 1982 | 166 | \$721,146 | \$2,101,022 | 111 | \$18,928 |
| 1983 | 164 | \$430,851 | \$1,216,193 | 115 | \$10,576 |
| 1984 | 159 | \$445,964 | \$1,206,950 | 99 | \$12,191 |
| 1985 | 159 | \$723,644 | \$1,891,395 | 113 | \$16,738 |
| 1986 | 161 | \$699,031 | \$1,793,030 | 101 | \$17,753 |
| 1987 | 161 | \$344,922 | \$853,459 | 108 | \$7,902 |
| 1988 | 160 | \$1,300,707 | \$3,092,308 | 124 | \$24,938 |
| 1989 | 160 | \$1,529,804 | \$3,469,491 | 127 | \$27,319 |
| 1990 | 157 | \$623,482 | \$1,341,596 | 116 | \$11,565 |
| 1991 | 155 | \$725,933 | \$1,498,583 | 110 | \$13,623 |
| 1992 | 165 | \$607,133 | \$1,216,492 | 111 | \$10,959 |
| 1993 | 166 | \$224,981 | \$437,864 | 88 | \$4,976 |
| 1994 | 165 | \$439,106 | \$832,881 | 73 | \$11,409 |
| 1995 | 166 | \$1,185,749 | \$2,187,713 | 106 | \$20,639 |
| 1996 | 165 | \$877,606 | \$1,573,078 | 107 | \$14,702 |
| 1997 | 163 | \$180,337 | \$315,863 | 63 | \$5,014 |
| 1998 | 162 | \$15,947 | \$27,505 | 22 | \$1,250 |
| 1999 | 162 | \$58,240 | \$98,298 | 25 | \$3,932 |
| 2000 | 161 | 0 | 0 | 0 | \$0 |
| 2001 | 157 | 0 | 0 | 0 | \$0 |
| 2002 | 156 | \$18,495 | \$28,908 | 12 | \$2,409 |
| 2003 | 157 | \$47,179 | \$72,105 | 20 | \$3,605 |
| 2004 | 137 | \$38,941 | \$57,963 | 14 | \$4,140 |
| 2005 | 135 | \$94,533 | \$136,093 | 15 | \$9,073 |
| 2006 | 128 | \$104,645 | \$145,942 | 26 | \$5,613 |
| 2007 | 124 | \$79,365 | \$107,616 | 24 | \$4,484 |
| 2008 | 124 | \$137,210 | \$179,173 | 20 | \$8,959 |
| 2009 | 122 | \$23,666 | \$31,014 | 10 | \$3,101 |
| 2010 | 115 | \$66,876 | \$86,226 | 11 | \$7,839 |
| 2011 | 115 | \$34,453 | \$43,063 | 9 | \$4,785 |
| 2012 | 106 | \$222,543 | \$272,514 | 19 | \$14,343 |
| 2013 | 103 | \$185,731 | \$224,153 | 16 | \$14,010 |
| 2014 | 100 | \$170,402 | \$202,369 | 14 | \$14,455 |
| 2015 | 98 | \$30,231 | \$35,859 | 6 | \$5,977 |
| 2016 | 95 | \$42,594 | \$49,896 | 8 | \$6,237 |
| 2017 | 95 | \$314,317 | \$360,516 | 18 | \$20,029 |
| 2018 | 95 | \$239,200 | \$267,816 | 14 | \$19,130 |
| 2019 | 90 | \$22,456 | \$24,695 | 6 | \$4,116 |
| 2020 | 89 | 0 | 0 | 0 | \$0 |
| 2021 | 88 | 0 | 0 | 0 | \$0 |

- Adjusted for inflation to 2022 dollars using U.S. Bureau of Labor Statistics Consumer Price Index.
- Counts will differ from CFEC on-line Basic Information Tables where the on-line data does not account for the combination of interim-entry permits that were issued as permanent permits in the same year.

Table 1-10. Estimated Real Gross Earnings for Permit Holders in the Upper Yukon Salmon Fish Wheel Fishery by Resident Type, 1976-2021

| Year | Local | | | Nonlocal | | | Nonresident | | | Total | | |
|------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------|----------|-------------|
| | People | Average | Total | People | Average | Total | People | Average | Total | People | Average | Total |
| 1976 | 139 | \$12,983 | \$1,804,582 | 5 | \$2,966 | \$14,830 | 0 | . | . | 144 | \$12,635 | \$1,819,412 |
| 1977 | 124 | \$12,115 | \$1,502,317 | 5 | \$31,056 | \$155,282 | 0 | . | . | 129 | \$12,850 | \$1,657,599 |
| 1978 | 132 | \$21,355 | \$2,818,889 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 137 | \$22,076 | \$3,024,360 |
| 1979 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | . | . | 129 | \$14,662 | \$1,891,369 |
| 1980 | 129 | \$20,882 | \$2,693,811 | 0 | . | . | 0 | . | . | 129 | \$20,882 | \$2,693,811 |
| 1981 | 123 | \$25,640 | \$3,153,718 | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 126 | \$25,438 | \$3,205,201 |
| 1982 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | . | . | 112 | \$18,759 | \$2,101,022 |
| 1983 | 115 | \$10,314 | \$1,186,167 | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 117 | \$10,395 | \$1,216,193 |
| 1984 | 96 | \$11,853 | \$1,137,903 | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 99 | \$12,191 | \$1,206,950 |
| 1985 | 110 | \$16,749 | \$1,842,341 | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 113 | \$16,738 | \$1,891,395 |
| 1986 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | . | . | 101 | \$17,753 | \$1,793,030 |
| 1987 | 105 | \$7,549 | \$792,693 | 5 | \$12,153 | \$60,766 | 0 | . | . | 110 | \$7,759 | \$853,459 |
| 1988 | 118 | \$24,836 | \$2,930,612 | 6 | \$26,949 | \$161,696 | 0 | . | . | 124 | \$24,938 | \$3,092,308 |
| 1989 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | . | . | 129 | \$26,895 | \$3,469,491 |
| 1990 | 113 | \$11,223 | \$1,268,182 | 4 | \$18,353 | \$73,414 | 0 | . | . | 117 | \$11,467 | \$1,341,596 |
| 1991 | 105 | \$13,592 | \$1,427,174 | 5 | \$14,282 | \$71,408 | 0 | . | . | 110 | \$13,623 | \$1,498,583 |
| 1992 | 107 | \$10,505 | \$1,124,081 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 113 | \$10,765 | \$1,216,492 |
| 1993 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | . | . | 88 | \$4,976 | \$437,864 |
| 1994 | 69 | \$11,322 | \$781,242 | 4 | \$12,910 | \$51,638 | 0 | . | . | 73 | \$11,409 | \$832,881 |
| 1995 | 100 | \$20,710 | \$2,071,038 | 6 | \$19,446 | \$116,675 | 0 | . | . | 106 | \$20,639 | \$2,187,713 |
| 1996 | 104 | \$14,313 | \$1,488,543 | 4 | \$21,134 | \$84,535 | 0 | . | . | 108 | \$14,566 | \$1,573,078 |
| 1997 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | . | . | 64 | \$4,935 | \$315,863 |
| 1998 | 22 | \$1,250 | \$27,505 | 0 | . | . | 0 | . | . | 22 | \$1,250 | \$27,505 |
| 1999 | 25 | \$3,932 | \$98,298 | 0 | . | . | 0 | . | . | 25 | \$3,932 | \$98,298 |
| 2000 | 0 | . | . | 0 | . | . | 0 | . | . | 0 | \$0 | \$0 |
| 2001 | 0 | . | . | 0 | . | . | 0 | . | . | 0 | \$0 | \$0 |
| 2002 | 12 | \$2,409 | \$28,908 | 0 | . | . | 0 | . | . | 12 | \$2,409 | \$28,908 |
| 2003 | 20 | \$3,605 | \$72,105 | 0 | . | . | 0 | . | . | 20 | \$3,605 | \$72,105 |
| 2004 | 14 | \$4,140 | \$57,963 | 0 | . | . | 0 | . | . | 14 | \$4,140 | \$57,963 |
| 2005 | 15 | \$9,073 | \$136,093 | 0 | . | . | 0 | . | . | 15 | \$9,073 | \$136,093 |
| 2006 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | . | . | 26 | \$5,613 | \$145,942 |
| 2007 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | . | . | 25 | \$4,305 | \$107,616 |
| 2008 | 20 | \$8,959 | \$179,173 | 0 | confidential | confidential | 0 | . | . | 20 | \$8,959 | \$179,173 |
| 2009 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | . | . | 10 | \$3,101 | \$31,014 |
| 2010 | confidential | confidential | confidential | 0 | . | . | 1 to 3 | confidential | confidential | 12 | \$7,185 | \$86,226 |
| 2011 | 9 | \$4,785 | \$43,063 | 0 | . | . | 0 | . | . | 9 | \$4,785 | \$43,063 |
| 2012 | 20 | \$13,626 | \$272,514 | 0 | . | . | 0 | . | . | 20 | \$13,626 | \$272,514 |
| 2013 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | . | . | 16 | \$14,010 | \$224,153 |
| 2014 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | . | . | 14 | \$14,455 | \$202,369 |
| 2015 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | . | . | 6 | \$5,977 | \$35,859 |
| 2016 | 8 | \$6,237 | \$49,896 | 0 | . | . | 0 | . | . | 8 | \$6,237 | \$49,896 |
| 2017 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | . | . | 18 | \$20,029 | \$360,516 |
| 2018 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | . | . | 14 | \$19,130 | \$267,816 |
| 2019 | 6 | \$4,116 | \$24,695 | 0 | . | . | 0 | . | . | 6 | \$4,116 | \$24,695 |
| 2020 | 0 | . | . | 0 | . | . | 0 | . | . | 0 | \$0 | \$0 |
| 2021 | 0 | . | . | 0 | . | . | 0 | . | . | 0 | \$0 | \$0 |

- Adjusted for inflation to 2022 dollars using U.S. Bureau of Labor Statistics Consumer Price Index.
- When fewer than four individuals in a cohort make landings, counts of participation and earnings are masked for both that cohort and at least one other cohort that year.
- Counts will differ from CFEC on-line Basic Information Tables where the on-line data does not account for the combination of interim-entry permits that were issued as permanent permits in the same year. Note that these counts are for individuals, not permits.

Chapter 2 Upper Yukon Salmon Gillnet Fishery

S04P Permit Holdings

Limited entry permits for the upper Yukon salmon gillnet fishery (S04P permits) were issued starting in 1976. CFEC has issued 75 S04P permits. Table 2-1 indicates the initial distribution and historical net changes in permit holdings for the fishery. Of this total, Alaska Locals received 93.3% (70/75) of the permits, Nonlocal Alaskans received 5.3% (4/75) of the permits, and Nonresidents received 1.3% (1/75). 74 of the S04P permits were issued as transferable permits, and 1 permit was issued as a non-transferable permits.

Table 2-1. Initial Issuance and Year-end 2021 Totals of Upper Yukon Salmon Gillnet Permits, With Net Changes Due to Permit Transfers, Migrations, and Cancellations, by Resident Type

| INITIAL ISSUE | | | TRANSFERS | | MIGRATIONS | | CANCELLED | | 2021 YEAR-END | |
|---------------|-----------|---------------|-----------|-----------------------------|------------|-----------------------------|------------|-----------------------------|---------------|---------------|
| Residency | Total | Percent | Change | Percent Change from Initial | Change | Percent Change from Initial | Change | Percent Change from Initial | Total | Percent |
| Local | 70 | 93.3% | 1 | 1.4% | -14 | -20.0% | -19 | -27.1% | 38 | 88.3% |
| Nonlocal | 4 | 5.3% | 0 | 0.0% | 12 | 300.0% | -11 | -275.0% | 5 | 11.6% |
| Nonresident | 1 | 1.3% | -1 | -100.0% | 2 | 200.0% | -2 | -200.0% | 0 | 0.0% |
| Total | 75 | 100.0% | 0 | 0.0% | 0 | 0.0% | -32 | -42.7% | 43 | 100.0% |

The number of permits held by each resident type can change for three reasons: permits can be transferred to other resident types (transfer); permit holders can move from one location to another (migration); or permits can be cancelled, such as when a permit holder does not pay the renewal fee for two consecutive years. This table indicates the extent to which these factors have contributed to net changes in permit holdings in this fishery.

Transfers of S04P Permits

Under the Limited Entry Act's terms of free transferability, permits may be sold, traded, given away, or inherited. CFEC requires the completion of a survey with each transfer.³ The surveys provide information such as transfer acquisition methods, the relationship between individuals in the transaction, and the sale amount for instances when the permit is sold.

Table 2-2. Transfer Acquisition Methods for Upper Yukon Salmon Gillnet Permits, 1980-2021

| Acquisition Method | Upper Yukon Salmon Gillnet | | Combined Upper Yukon Salmon | | Statewide Salmon Set Gillnet | | All Fisheries Statewide | |
|--------------------|----------------------------|---------|-----------------------------|---------|------------------------------|---------|-------------------------|---------|
| | Count | Percent | Count | Percent | Count | Percent | Count | Percent |
| Gift | 48 | 42.5% | 157 | 40.2% | 6,717 | 51.0% | 13,403 | 32.5% |
| Sale | 47 | 41.6% | 166 | 42.5% | 5,069 | 38.5% | 24,174 | 58.6% |
| Trade | 4 | 3.5% | 11 | 2.8% | 97 | 0.7% | 531 | 1.3% |
| Other | 14 | 12.4% | 57 | 14.6% | 1,282 | 9.7% | 3,134 | 7.6% |
| Total | 113 | | 391 | | 13,165 | | 41,242 | |

Table 2-2 compares and contrasts the transfer acquisition methods for the S04P permits, combined upper Yukon salmon permit types, all statewide salmon set gillnet permits, and all limited entry permits between 1980 and 2021. The majority of all S04P transfers were gifts (42.5% or 48/113), followed by sales (41.6% or 47/113), and a smaller percentage were trades (3.5% or 4/113) or other (12.4% or 14/113). The annual acquisition methods for S04P permits can be viewed in a different publication.⁴

Table 2-3. Relationships of Transferor to Transfer Recipients for Upper Yukon Salmon Gillnet Permits, 1980-2021

| Relationship | Upper Yukon Salmon Gillnet | | Combined Upper Yukon Salmon | | Statewide Salmon Set Gillnet | | All Fisheries Statewide | |
|----------------------------|----------------------------|---------|-----------------------------|---------|------------------------------|---------|-------------------------|---------|
| | Count | Percent | Count | Percent | Count | Percent | Count | Percent |
| Business Partner/Friend | 21 | 18.6% | 83 | 21.2% | 2,632 | 20.0% | 7,713 | 18.7% |
| Member of Immediate Family | 60 | 53.1% | 204 | 52.2% | 6,331 | 48.1% | 13,850 | 33.6% |
| Other Relative | 4 | 3.5% | 17 | 4.3% | 914 | 6.9% | 1,846 | 4.5% |
| Other | 28 | 24.8% | 87 | 22.3% | 3,288 | 25.0% | 17,833 | 43.2% |
| Total | 113 | | 391 | | 13,165 | | 41,242 | |

Table 2-3 shows the relationships between the transferors and transfer recipients for S04P permits, and compares S04P permit transfers with the combined upper Yukon salmon permit types, all statewide salmon set gillnet permits, and all limited entry permits from 1980 to 2021. Transfers within the family, both between immediate family members and other relatives, total 56.6% (64/113) of all permit transfers for S04P permits compared to 56.5% (221/378) combined upper Yukon salmon permit types, 55.0% (7,245/13,165) for all salmon set gillnet permits statewide, and 38.1% (15,696/41,242) for all limited entry permits statewide.

³ CFEC implemented the transfer survey in 1980.

⁴ See *Changes in the Distribution of Alaska's Commercial Fisheries Entry Permits, 1975-2021*, CFEC Report No. 22-2N.

Emergency Transfers of S04P Permits

Commercial landings can be made with either permanently-held permits or with permits held temporarily through emergency transfers. Emergency transfers (ET) of permits are granted if illness, disability, death, required military or government service, or other unavoidable hardship of a temporary, unexpected, and unforeseen nature prevents the permanent permit holder from participating in the fishery. “Hardship” does not include the results of a permit holder’s own economic decisions, or the results of economic, biological or regulatory variables which are normally part of the risk of doing business as a fisherman. At the end of the year, ET permits automatically revert back to the permanent permit holder.

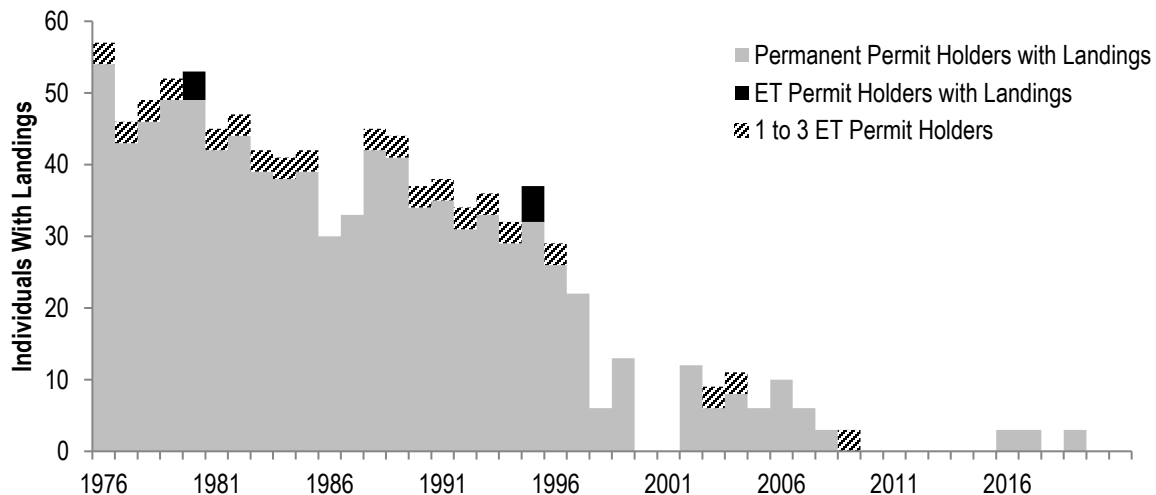
Table 2-4 and Figure 2-1 show the total number of individuals who recorded landings each year, and of that group, the number of individuals who made landings with ET permits. Some individuals who made landings with ET permits also made landings with permanent permits in the same year.

Table 2-4. Use of Emergency Transfer Permits in the Upper Yukon Salmon Gillnet Fishery, 1976-2021

| Year | Individuals With Landings | ET Permit Holders With Landings | ET Rate | Year | Individuals With Landings | ET Permit Holders With Landings | ET Rate | Year | Individuals With Landings | ET Permit Holders With Landings | ET Rate |
|------|---------------------------|---------------------------------|---------|------|---------------------------|---------------------------------|---------|------|---------------------------|---------------------------------|---------|
| 1976 | 55 | 1 to 3 | - | 1992 | 32 | 1 to 3 | - | 2008 | 1 to 3 | 0 | - |
| 1977 | 44 | 1 to 3 | - | 1993 | 35 | 1 to 3 | - | 2009 | 1 to 3 | 1 to 3 | - |
| 1978 | 47 | 1 to 3 | - | 1994 | 31 | 1 to 3 | - | 2010 | 0 | 0 | - |
| 1979 | 50 | 1 to 3 | - | 1995 | 37 | 5 | 13.5% | 2011 | 0 | 0 | - |
| 1980 | 53 | 4 | 7.5% | 1996 | 28 | 1 to 3 | - | 2012 | 0 | 0 | - |
| 1981 | 45 | 1 to 3 | - | 1997 | 22 | 0 | 0.0% | 2013 | 0 | 0 | - |
| 1982 | 45 | 1 to 3 | - | 1998 | 6 | 0 | 0.0% | 2014 | 0 | 0 | - |
| 1983 | 40 | 1 to 3 | - | 1999 | 13 | 0 | 0.0% | 2015 | 0 | 0 | - |
| 1984 | 39 | 1 to 3 | - | 2000 | 0 | 0 | - | 2016 | 1 to 3 | 0 | - |
| 1985 | 41 | 1 to 3 | - | 2001 | 0 | 0 | - | 2017 | 1 to 3 | 0 | - |
| 1986 | 30 | 0 | 0.0% | 2002 | 12 | 0 | 0.0% | 2018 | 0 | 0 | 0 |
| 1987 | 33 | 0 | 0.0% | 2003 | 7 | 1 to 3 | - | 2019 | 1 to 3 | 0 | - |
| 1988 | 43 | 1 to 3 | - | 2004 | 9 | 1 to 3 | - | 2020 | 0 | 0 | - |
| 1989 | 42 | 1 to 3 | - | 2005 | 6 | 0 | 0.0% | 2021 | 0 | 0 | - |
| 1990 | 35 | 1 to 3 | - | 2006 | 10 | 0 | 0.0% | | | | |
| 1991 | 36 | 1 to 3 | - | 2007 | 6 | 0 | 0.0% | | | | |

- When fewer than four individuals make landings, figures are masked due to confidentiality.

Figure 2-1. Use of Emergency Transfer Permits in the Upper Yukon Salmon Set Gillnet Fishery, 1976-2021



Latent S04P Permits

CFEC regulations require individuals to renew their limited entry permits annually, regardless of whether they actually fish. Permits that are not used (don't record landings) in a given year are referred to herein as "latent" permits for that year.

Table 2-5 indicates the total number of issued S04P permits issued each year, the number of permits fished (with commercial landings), and the rate of permit latency. Issued permits include both interim entry and permanent permits. Note that for this table, in years when a single individual held an interim-entry permit and was also issued a permanent permit, only the permanent permit is counted. The rate of latency is depicted in Figure 2-2.

There are many reasons why an individual might not fish in any given year. This table and figure do not explain any of these reasons.

Table 2-5. Upper Yukon Salmon Gillnet Permit Latency, 1976-2021

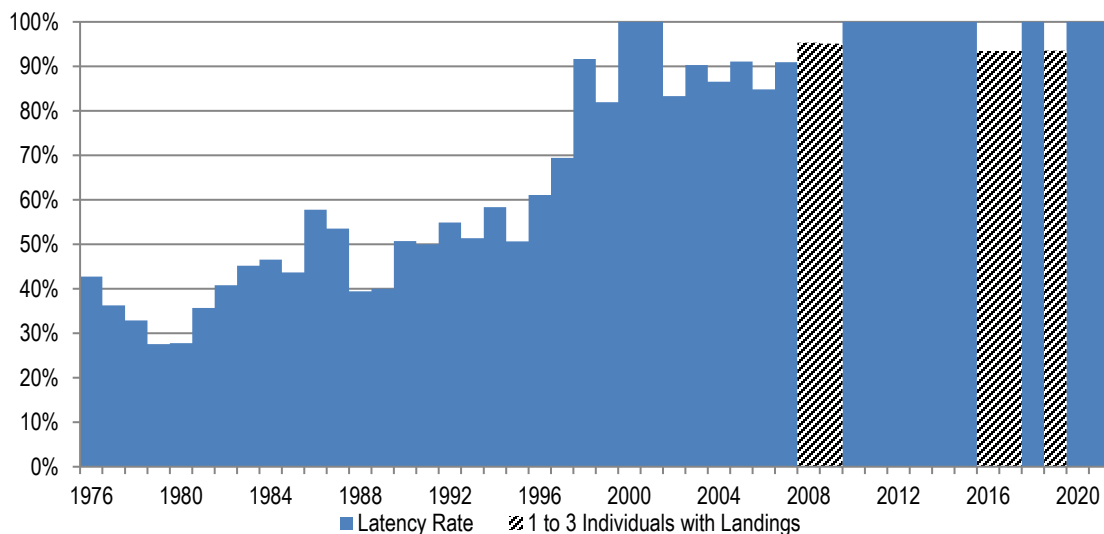
| Year | Permits Issued | Permits Fished | Latency Rate |
|------|----------------|----------------|--------------|
| 1976 | 96 | 55 | 42.7% |
| 1977 | 69 | 44 | 36.2% |
| 1978 | 70 | 47 | 32.9% |
| 1979 | 69 | 50 | 27.5% |
| 1980 | 72 | 52 | 27.8% |
| 1981 | 70 | 45 | 35.7% |
| 1982 | 76 | 45 | 40.8% |
| 1983 | 73 | 40 | 45.2% |
| 1984 | 73 | 39 | 46.6% |
| 1985 | 71 | 40 | 43.7% |
| 1986 | 71 | 30 | 57.7% |
| 1987 | 71 | 33 | 53.5% |
| 1988 | 71 | 43 | 39.4% |
| 1989 | 70 | 42 | 40.0% |
| 1990 | 71 | 35 | 50.7% |
| 1991 | 72 | 36 | 50.0% |

| Year | Permits Issued | Permits Fished | Latency Rate |
|------|----------------|----------------|--------------|
| 1992 | 71 | 32 | 54.9% |
| 1993 | 72 | 35 | 51.4% |
| 1994 | 72 | 30 | 58.3% |
| 1995 | 73 | 36 | 50.7% |
| 1996 | 72 | 28 | 61.1% |
| 1997 | 72 | 22 | 69.4% |
| 1998 | 72 | 6 | 91.7% |
| 1999 | 72 | 13 | 81.9% |
| 2000 | 72 | 0 | 100.0% |
| 2001 | 72 | 0 | 100.0% |
| 2002 | 72 | 12 | 83.3% |
| 2003 | 72 | 7 | 90.3% |
| 2004 | 67 | 9 | 86.6% |
| 2005 | 67 | 6 | 91.0% |
| 2006 | 66 | 10 | 84.8% |
| 2007 | 66 | 6 | 90.9% |

| Year | Permits Issued | Permits Fished | Latency Rate |
|------|----------------|----------------|--------------|
| 2008 | 64 | 1 to 3 | - |
| 2009 | 61 | 1 to 3 | - |
| 2010 | 58 | 0 | 100.0% |
| 2011 | 55 | 0 | 100.0% |
| 2012 | 52 | 0 | 100.0% |
| 2013 | 51 | 0 | 100.0% |
| 2014 | 47 | 0 | 100.0% |
| 2015 | 46 | 0 | 100.0% |
| 2016 | 46 | 1 to 3 | - |
| 2017 | 46 | 1 to 3 | - |
| 2018 | 46 | 0 | 100.0% |
| 2019 | 43 | 1 to 3 | - |
| 2020 | 43 | 0 | 100.0% |
| 2021 | 43 | 0 | 100.0% |

- When an individual with an interim-entry permit is issued a permanent permit in the same year, only the permanent permit is counted in the above table.
- 'Permits Fished' is the number of CFEC permits that were used to record commercial landings in that year.

Figure 2-2. Upper Yukon Salmon Gillnet Permit Latency Rate, 1976-2021



New Entrants into the Upper Yukon Salmon Gillnet Fishery

New entrants are defined herein as individuals who, for the first time, record a landing on a permanent S04P permit. It is important to note that initial permit holders are not considered new entrants because they needed a proven fishing history prior to 1976 in order to become an initial permit holder of a limited entry permit. Individuals who only make landings on an emergency transfer or interim-entry permit for any given year are not considered in this table.

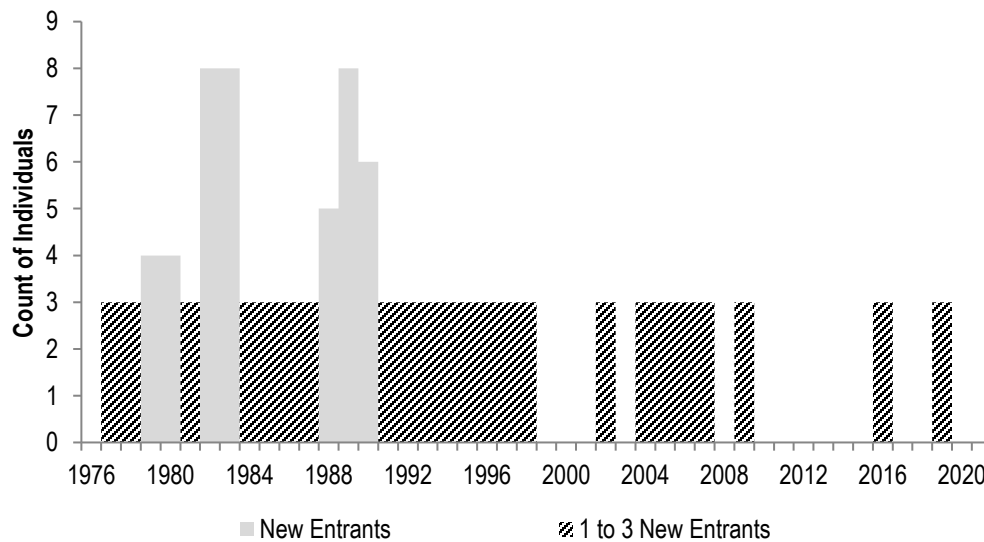
Table 2-6 and Figure 2-3 describe individuals rather than permits. An individual may hold up to two permits in this fishery, but can only fish one of them. An individual may hold one S04P permit one year, and then in subsequent years hold a different S04P permit. Likewise, individuals may enter and exit the fishery multiple times over the years. Individuals are only counted once as a new entrant and only in the year in which they made their first documented landing.

Table 2-6. New Entrants into the Upper Yukon Salmon Gillnet Fishery, 1976-2021

| Year | Individuals w/Landings | New Entrants Count | New Entrants Percent | Year | Individuals w/Landings | New Entrants Count | New Entrants Percent | Year | Individuals w/Landings | New Entrants Count | New Entrants Percent | Year | Individuals w/Landings | New Entrants Count | New Entrants Percent |
|------|------------------------|--------------------|----------------------|------|------------------------|--------------------|----------------------|------|------------------------|--------------------|----------------------|------|------------------------|--------------------|----------------------|
| 1976 | 10 | 0 | 0.0% | 1988 | 42 | 5 | 11.9% | 2000 | 0 | 0 | - | 2012 | 0 | 0 | - |
| 1977 | 28 | 1 to 3 | - | 1989 | 41 | 8 | 19.5% | 2001 | 0 | 0 | - | 2013 | 0 | 0 | - |
| 1978 | 29 | 1 to 3 | - | 1990 | 34 | 6 | 17.6% | 2002 | 12 | 1 to 3 | - | 2014 | 0 | 0 | - |
| 1979 | 37 | 4 | 10.8% | 1991 | 36 | 1 to 3 | - | 2003 | 7 | 0 | 0.0% | 2015 | 0 | 0 | - |
| 1980 | 40 | 4 | 10.0% | 1992 | 32 | 1 to 3 | - | 2004 | 9 | 1 to 3 | - | 2016 | 1 to 3 | 1 to 3 | - |
| 1981 | 38 | 1 to 3 | - | 1993 | 35 | 1 to 3 | - | 2005 | 6 | 1 to 3 | - | 2017 | 1 to 3 | 0 | - |
| 1982 | 45 | 8 | 17.8% | 1994 | 31 | 1 to 3 | - | 2006 | 10 | 1 to 3 | - | 2018 | 0 | 0 | - |
| 1983 | 40 | 8 | 20.0% | 1995 | 37 | 1 to 3 | - | 2007 | 6 | 1 to 3 | - | 2019 | 1 to 3 | 1 to 3 | - |
| 1984 | 38 | 1 to 3 | - | 1996 | 28 | 1 to 3 | - | 2008 | 1 to 3 | 0 | - | 2020 | 0 | 0 | - |
| 1985 | 41 | 1 to 3 | - | 1997 | 22 | 1 to 3 | - | 2009 | 1 to 3 | 1 to 3 | - | 2021 | 0 | 0 | - |
| 1986 | 30 | 1 to 3 | - | 1998 | 6 | 1 to 3 | - | 2010 | 0 | 0 | - | | | | |
| 1987 | 33 | 1 to 3 | - | 1999 | 13 | 0 | 0.0% | 2011 | 0 | 0 | - | | | | |

- This table excludes individuals with interim-entry and emergency transfer permits.

Figure 2-3. New Entrants into the Upper Yukon Salmon Gillnet Fishery, 1976-2021



Age of S04P Permit Holders

Table 2-7. Mean Age of Select CFEC Permit Holders and the General Alaskan Population

| Year | S04P | Combined Upper Yukon Salmon | Statewide Salmon Set Gillnet | Statewide All Permits | Mean Alaska Worker Age |
|------|------|-----------------------------------|------------------------------------|-----------------------------|------------------------------|
| 1980 | 45.5 | 42.2 | 37.9 | 38.9 | 33.4 |
| 1981 | 45.3 | 42.9 | 38.0 | 39.9 | 33.5 |
| 1982 | 44.2 | 43.6 | 38.2 | 40.0 | 33.6 |
| 1983 | 44.7 | 43.1 | 38.0 | 40.2 | 33.7 |
| 1984 | 44.9 | 43.1 | 38.2 | 40.4 | 33.8 |
| 1985 | 45.7 | 43.3 | 38.5 | 40.8 | 34.0 |
| 1986 | 46.6 | 43.9 | 38.8 | 41.0 | 34.2 |
| 1987 | 45.9 | 43.5 | 39.0 | 40.9 | 34.5 |
| 1988 | 46.4 | 44.1 | 39.3 | 41.2 | 34.9 |
| 1989 | 47.1 | 45.2 | 39.9 | 41.5 | 35.3 |
| 1990 | 47.8 | 45.4 | 40.0 | 42.0 | 35.5 |
| 1991 | 49.1 | 46.8 | 40.5 | 42.5 | 35.9 |
| 1992 | 50.0 | 48.0 | 40.8 | 42.9 | 36.2 |
| 1993 | 50.8 | 48.6 | 41.2 | 43.5 | 36.5 |
| 1994 | 52.0 | 49.1 | 41.5 | 44.0 | 36.7 |
| 1995 | 52.7 | 49.4 | 41.9 | 44.4 | 37.0 |
| 1996 | 53.4 | 49.1 | 42.3 | 44.8 | 37.2 |
| 1997 | 53.8 | 49.6 | 42.6 | 45.1 | 37.4 |
| 1998 | 55.0 | 50.1 | 43.1 | 45.6 | 37.6 |
| 1999 | 54.7 | 50.5 | 43.4 | 46.0 | 37.8 |
| 2000 | 55.7 | 51.6 | 43.7 | 46.4 | 37.9 |
| 2001 | 56.7 | 52.8 | 44.1 | 46.9 | 38.1 |
| 2002 | 57.7 | 53.6 | 44.8 | 47.4 | 38.3 |
| 2003 | 58.9 | 54.4 | 45.2 | 47.9 | 38.4 |
| 2004 | 59.3 | 54.8 | 45.4 | 48.2 | 38.6 |
| 2005 | 59.8 | 55.6 | 45.4 | 48.4 | 38.7 |
| 2006 | 60.3 | 55.8 | 45.6 | 48.7 | 38.8 |
| 2007 | 61.0 | 56.4 | 45.9 | 48.9 | 38.9 |
| 2008 | 60.0 | 56.8 | 45.9 | 49.0 | 39.0 |
| 2009 | 60.9 | 57.4 | 46.1 | 49.3 | 39.1 |
| 2010 | 61.2 | 57.9 | 46.3 | 49.5 | 39.2 |
| 2011 | 60.8 | 58.0 | 46.6 | 49.6 | 39.4 |
| 2012 | 61.8 | 59.2 | 47.0 | 49.8 | 39.4 |
| 2013 | 62.4 | 59.1 | 47.0 | 50.0 | 39.5 |
| 2014 | 62.2 | 59.6 | 47.2 | 50.2 | 39.5 |
| 2015 | 63.1 | 60.5 | 47.6 | 50.6 | 39.5 |
| 2016 | 64.1 | 61.6 | 48.0 | 50.9 | 39.6 |
| 2017 | 65.1 | 62.5 | 48.2 | 51.3 | 39.6 |
| 2018 | 65.5 | 62.5 | 48.4 | 51.7 | 40.1 |
| 2019 | 65.8 | 63.1 | 48.8 | 51.9 | 40.1 |
| 2020 | 66.2 | 63.4 | 49.2 | 52.3 | 40.0 |
| 2021 | 66.8 | 64.1 | 49.5 | 52.6 | 39.9 |

- Mean AK Working Age is the annual average age of all Alaskans age 16-64 as reported by the Alaska Department of Labor and Workforce Development, Research and Analysis Section.
- Age data from the CFEC permit file is as of December 31st of each year.

Table 2-7 shows the annual mean age of five different cohorts of people: 1) upper Yukon salmon gillnet (S04P) permit holders; 2) combined upper Yukon salmon permit holders; 3) all salmon set gillnet permit holders statewide; 4) all CFEC limited entry permit holders; and 5) the Alaskan working population.

Note that these figures include ages of permit holders for both transferable and non-transferable permits. Some individuals hold permits in more than one fishery; in these cases, the age of the permit holder is counted once for each permit that he or she holds.

The mean age of the general Alaskan working age population has increased 6.5 years between 1980 and 2021. The percent change in ages over the same period for all CFEC permit holders was 13.7 years, 11.6 years for the statewide salmon set gillnet permit holders, and 21.9 years for the combined upper Yukon salmon permit holders.

For S04P permit holders, the mean age increased 21.3 years.

S04P Permit Value

Many permit transfers are non-monetary transactions (see Table 2-2). Table 2-8 considers solely arms-length market transactions where permits are sold. CFEC estimated values are expressed in both nominal and real (adjusted for inflation) terms.

Table 2-8. CFEC Estimated Value of Upper Yukon Salmon Gillnet Permits

| Years | S04P Permit Sales | Nominal Permit Value | Real Permit Value | Real Standard Deviation |
|-------|-------------------|----------------------|-------------------|-------------------------|
| 1987 | 2 | \$7,600 | \$19,200 | \$4,300 |
| 1988 | 3 | \$8,400 | \$20,400 | \$2,100 |
| 1989 | 4 | \$9,900 | \$22,400 | \$2,800 |
| 1990 | 4 | \$11,200 | \$24,200 | \$1,800 |
| 1991 | 1 | \$11,200 | \$23,300 | \$2,300 |
| 1992 | 0 | \$11,200 | \$23,300 | \$2,300 |
| 1993 | 1 | \$10,000 | \$18,700 | \$4,900 |
| 1994 | 0 | \$10,000 | \$18,700 | \$4,900 |
| 1995 | 0 | \$10,000 | \$18,700 | \$4,900 |
| 1996 | 1 | \$9,200 | \$16,200 | \$3,900 |
| 1997 | 0 | \$9,200 | \$16,200 | \$3,900 |
| 1998 | 0 | \$9,200 | \$16,200 | \$3,900 |
| 1999 | 1 | \$7,500 | \$10,900 | \$3,800 |
| 2000 | 0 | \$7,500 | \$10,900 | \$3,800 |
| 2001 | 0 | \$7,500 | \$10,900 | \$3,800 |
| 2002 | 0 | \$7,500 | \$10,900 | \$3,800 |
| 2003 | 0 | \$7,500 | \$10,900 | \$3,800 |
| 2004 | 1 | \$6,200 | \$8,500 | \$2,300 |
| 2005 | 1 | \$5,900 | \$8,100 | \$1,500 |
| 2006 | 1 | \$4,600 | \$6,100 | \$1,800 |
| 2007 | 1 | \$3,600 | \$4,000 | \$2,500 |
| 2008 | 0 | \$3,600 | \$4,000 | \$2,500 |
| 2009 | 0 | \$3,600 | \$4,000 | \$2,500 |
| 2010 | 0 | \$3,600 | \$4,000 | \$2,500 |
| 2011 | 1 | \$3,200 | \$4,300 | \$1,500 |
| 2012 | 0 | \$3,200 | \$4,300 | \$1,500 |
| 2013 | 0 | \$3,200 | \$4,300 | \$1,500 |
| 2014 | 0 | \$3,200 | \$4,300 | \$1,500 |
| 2015 | 0 | \$3,200 | \$4,300 | \$1,500 |
| 2016 | 0 | \$3,200 | \$4,300 | \$1,500 |
| 2017 | 0 | \$3,200 | \$4,300 | \$1,500 |
| 2018 | 1 | \$2,800 | \$3,800 | \$700 |
| 2019 | 0 | \$2,800 | \$3,800 | \$700 |
| 2020 | 0 | \$2,800 | \$3,800 | \$700 |
| 2021 | 1 | \$2,800 | \$3,300 | \$600 |

- Permit values represent averages of all arms-length sale transactions over the year. Beginning in 1991, additional data from recent months in the preceding year may be included until at least four observations can be averaged.
- Real permit values were calculated using the 2022 Consumer Price Index from the U.S. Bureau of Labor Statistics.

Participation and Earnings

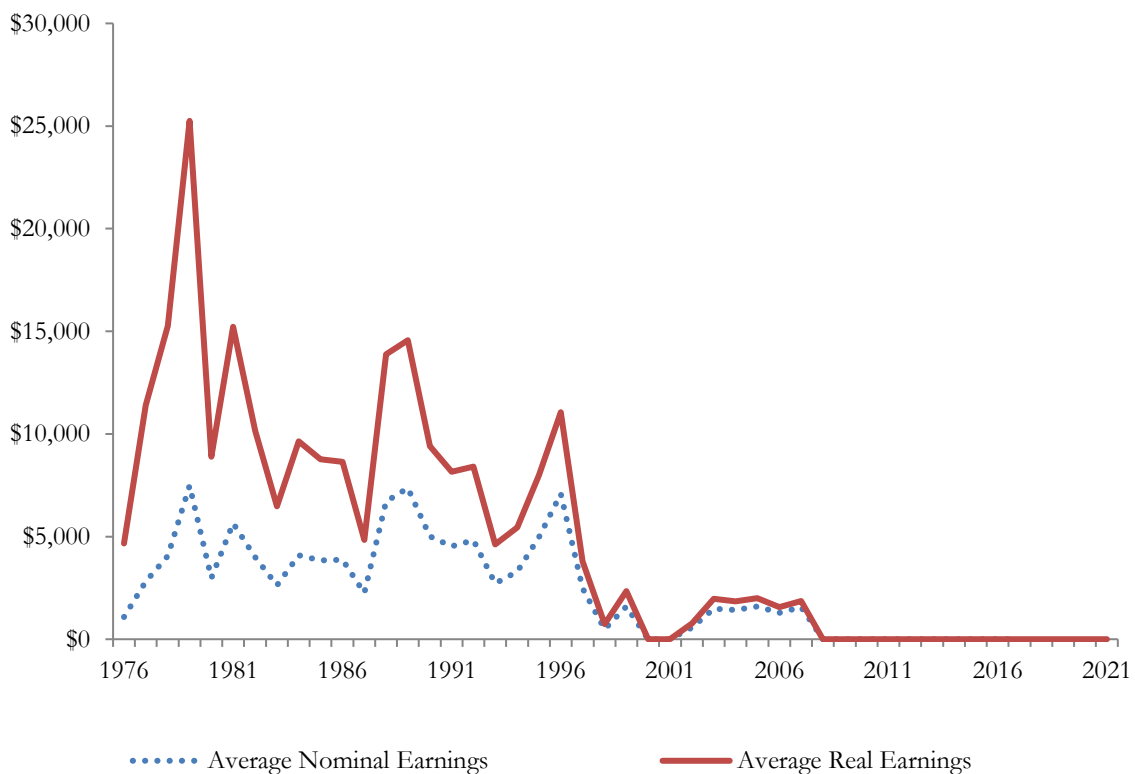
Earnings are estimated from weighted average ex-vessel prices, and as noted earlier, come primarily from the ADF&G Commercial Operators Annual Report and fish ticket values. Earnings shown in Figure 2-4 reflect both nominal and real dollars using the 2022 Consumer Price Index from the U.S. Bureau of Labor Statistics.

Permit counts include interim-entry permits and permanent permits. Interim-entry permits are issued to individuals during the period when their applications for permanent permits are in adjudication. The last year an interim-entry permit was held in the upper Yukon salmon gillnet fishery was in 1991. Some individuals made landings on both an interim-entry permit and subsequently on their newly issued permanent permit in the same year; for these instances, only the permanent permit is counted in this report.

Table 2-9 reports the number of permit issued, and estimated gross earnings in the upper Yukon salmon gillnet fishery from 1976 to 2021. Note that the figures by permit or vessel in this table span the entire year, regardless of who held the permit or however many times the permit was transferred.

Table 2-10 reports the number of permit holders (people) and estimated real (inflation adjusted) gross earnings by each resident type.

Figure 2-4. Estimated Nominal and Real Average Gross Earnings Per Upper Yukon Salmon Set Gillnet Permit



- Real earnings are adjusted for inflation using the 2022 U.S. Bureau of Labor Statistics Consumer Price Index.

Table 2-9. Estimated Total Gross Earnings (Real and Nominal) for the Upper Yukon Salmon Gillnet Fishery, With Average Gross (Real) Earnings by Permit, 1976-2021

| Year | Permits Issued | Total Gross Earnings | | Permits With Landings | Average Real Earnings |
|------|----------------|----------------------|-------------|-----------------------|-----------------------|
| | | Nominal | Real | | |
| 1976 | 96 | \$59,611 | \$294,502 | 55 | \$5,355 |
| 1977 | 69 | \$123,937 | \$574,916 | 44 | \$13,066 |
| 1978 | 70 | \$190,804 | \$822,343 | 47 | \$17,497 |
| 1979 | 69 | \$373,994 | \$1,448,813 | 50 | \$28,976 |
| 1980 | 72 | \$155,418 | \$530,229 | 52 | \$10,197 |
| 1981 | 70 | \$254,068 | \$785,599 | 45 | \$17,458 |
| 1982 | 76 | \$179,957 | \$524,295 | 45 | \$11,651 |
| 1983 | 73 | \$105,239 | \$297,065 | 40 | \$7,427 |
| 1984 | 73 | \$159,245 | \$430,977 | 39 | \$11,051 |
| 1985 | 71 | \$153,888 | \$402,220 | 40 | \$10,055 |
| 1986 | 71 | \$116,007 | \$297,562 | 30 | \$9,919 |
| 1987 | 71 | \$74,068 | \$183,270 | 33 | \$5,554 |
| 1988 | 71 | \$288,133 | \$685,010 | 43 | \$15,930 |
| 1989 | 70 | \$309,421 | \$701,746 | 42 | \$16,708 |
| 1990 | 71 | \$175,419 | \$377,463 | 35 | \$10,785 |
| 1991 | 72 | \$163,113 | \$336,724 | 36 | \$9,353 |
| 1992 | 71 | \$154,115 | \$308,795 | 32 | \$9,650 |
| 1993 | 72 | \$95,252 | \$185,382 | 35 | \$5,297 |
| 1994 | 72 | \$98,815 | \$187,429 | 30 | \$6,248 |
| 1995 | 73 | \$179,084 | \$330,410 | 36 | \$9,178 |
| 1996 | 72 | \$198,292 | \$355,431 | 28 | \$12,694 |
| 1997 | 72 | \$54,628 | \$95,681 | 22 | \$4,349 |
| 1998 | 72 | \$2,968 | \$5,119 | 6 | \$853 |
| 1999 | 72 | \$20,755 | \$35,030 | 13 | \$2,695 |
| 2000 | 72 | 0 | 0 | 0 | 0 |
| 2001 | 72 | 0 | 0 | 0 | 0 |
| 2002 | 72 | \$6,737 | \$10,529 | 12 | \$877 |
| 2003 | 72 | \$10,354 | \$15,824 | 7 | \$2,261 |
| 2004 | 67 | \$12,768 | \$19,005 | 9 | \$2,112 |
| 2005 | 67 | \$9,582 | \$13,794 | 6 | \$2,299 |
| 2006 | 66 | \$12,805 | \$17,859 | 10 | \$1,786 |
| 2007 | 66 | \$9,403 | \$12,750 | 6 | \$2,125 |
| 2008 | 64 | ** | ** | 1 to 3 | ** |
| 2009 | 61 | ** | ** | 1 to 3 | ** |
| 2010 | 58 | \$0 | \$0 | 0 | \$0 |
| 2011 | 55 | \$0 | \$0 | 0 | \$0 |
| 2012 | 52 | \$0 | \$0 | 0 | \$0 |
| 2013 | 51 | \$0 | \$0 | 0 | \$0 |
| 2014 | 47 | \$0 | \$0 | 0 | \$0 |
| 2015 | 46 | \$0 | \$0 | 0 | \$0 |
| 2016 | 46 | ** | ** | 1 to 3 | ** |
| 2017 | 46 | ** | ** | 1 to 3 | ** |
| 2018 | 46 | \$0 | \$0 | 0 | \$0 |
| 2019 | 43 | ** | ** | 1 to 3 | ** |
| 2020 | 43 | \$0 | \$0 | 0 | \$0 |
| 2021 | 43 | \$0 | \$0 | 0 | \$0 |

- Adjusted for inflation to 2022 dollars using U.S. Bureau of Labor Statistics Consumer Price Index.
- Counts will differ from CFEC on-line Basic Information Tables where the on-line data does not account for the combination of interim-entry permits that were issued as permanent permits in the same year.
- When fewer than four permits make landings, earnings are masked (**) due to reasons of confidentiality.

Table 2-10. Estimated Real Gross Earnings for Permit Holders in the Upper Yukon Salmon Gillnet Fishery by Resident Type, 1976-2021

| Year | Local Gross Earnings | | | Nonlocal Gross Earnings | | | Nonresident Gross Earnings | | | Total Gross Earnings | | |
|------|-------------------------|--------------|--------------|----------------------------|--------------|--------------|-------------------------------|--------------|--------------|-------------------------|--------------|--------------|
| | People | Average | Total | People | Average | Total | People | Average | Total | People | Average | Total |
| 1976 | 51 | \$4,884 | \$249,103 | 4 | \$11,350 | \$45,399 | 0 | -- | -- | 55 | \$5,355 | \$294,502 |
| 1977 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 44 | \$13,066 | \$574,916 |
| 1978 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 47 | \$17,497 | \$822,343 |
| 1979 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 50 | \$28,976 | \$1,448,813 |
| 1980 | 48 | \$10,388 | \$498,612 | 5 | \$6,323 | \$31,617 | 0 | -- | -- | 53 | \$10,004 | \$530,229 |
| 1981 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 45 | \$17,458 | \$785,599 |
| 1982 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 45 | \$11,651 | \$524,295 |
| 1983 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 40 | \$7,427 | \$297,065 |
| 1984 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 39 | \$11,051 | \$430,977 |
| 1985 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 41 | \$9,810 | \$402,220 |
| 1986 | 26 | \$10,536 | \$273,942 | 4 | \$5,905 | \$23,620 | 0 | -- | -- | 30 | \$9,919 | \$297,562 |
| 1987 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 33 | \$5,554 | \$183,270 |
| 1988 | 38 | \$15,703 | \$596,701 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 43 | \$15,930 | \$685,010 |
| 1989 | 36 | \$12,858 | \$462,894 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 42 | \$16,708 | \$701,746 |
| 1990 | 30 | \$9,775 | \$293,244 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 35 | \$10,785 | \$377,463 |
| 1991 | 32 | \$7,980 | \$255,353 | 1 to 3 | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 36 | \$9,353 | \$336,724 |
| 1992 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 32 | \$9,650 | \$308,795 |
| 1993 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 35 | \$5,297 | \$185,382 |
| 1994 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 31 | \$6,046 | \$187,429 |
| 1995 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 37 | \$8,930 | \$330,410 |
| 1996 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 28 | \$12,694 | \$355,431 |
| 1997 | Confidential | Confidential | Confidential | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 22 | \$4,349 | \$95,681 |
| 1998 | 6 | \$853 | \$5,119 | 0 | -- | -- | 0 | -- | -- | 6 | \$853 | \$5,119 |
| 1999 | 13 | \$2,695 | \$35,030 | 0 | -- | -- | 0 | -- | -- | 13 | \$2,695 | \$35,030 |
| 2000 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| 2001 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| 2002 | 12 | \$877 | \$10,529 | 0 | -- | -- | 0 | -- | -- | 12 | \$877 | \$10,529 |
| 2003 | 7 | \$2,261 | \$15,824 | 0 | -- | -- | 0 | -- | -- | 7 | \$2,261 | \$15,824 |
| 2004 | 9 | \$2,112 | \$19,005 | 0 | -- | -- | 0 | -- | -- | 9 | \$2,112 | \$19,005 |
| 2005 | 6 | \$2,299 | \$13,794 | 0 | -- | -- | 0 | -- | -- | 6 | \$2,299 | \$13,794 |
| 2006 | 10 | \$1,786 | \$17,859 | 0 | -- | -- | 0 | -- | -- | 10 | \$1,786 | \$17,859 |
| 2007 | 6 | \$2,125 | \$12,750 | 0 | -- | -- | 0 | -- | -- | 6 | \$2,125 | \$12,750 |
| 2008 | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 0 | -- | -- | 1 to 3 | Confidential | Confidential |
| 2009 | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 0 | -- | -- | 1 to 3 | Confidential | Confidential |
| 2010 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| 2011 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| 2012 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| 2013 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| 2014 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| 2015 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| 2016 | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 0 | -- | -- | 1 to 3 | Confidential | Confidential |
| 2017 | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 0 | -- | -- | 1 to 3 | Confidential | Confidential |
| 2018 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| 2019 | 1 to 3 | Confidential | Confidential | 0 | -- | -- | 0 | -- | -- | 1 to 3 | Confidential | Confidential |
| 2020 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |
| 2021 | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- | 0 | -- | -- |

- Adjusted for inflation to 2022 dollars using U.S. Bureau of Labor Statistics Consumer Price Index.
- Counts will differ from CFEC on-line Basic Information Tables where the on-line data does not account for the combination of interim-entry permits that were issued as permanent permits in the same year.
- Note that these counts are for individuals, not permits.

Chapter 3 Lower Yukon Salmon Gillnet Fishery

S04Y Permit Holdings

Limited entry permits for the lower Yukon salmon gillnet fishery (S04Y permits) were issued starting in 1976. CFEC has issued 712 S04Y permits. Table 3-1 indicates the initial distribution and historical net changes in permit holdings for the fishery. Of this total, Alaska Locals received 94.2% (671/712) of the permits, Nonlocal Alaskans received 5.6% (40/712) of the permits, and Nonresidents received 0.1% (1/712). Every S04Y permits was issued as transferable permits.

Table 3-1. Initial Issuance and Year-end 2021 Totals of Lower Yukon Salmon Gillnet Permits, With Net Changes Due to Permit Transfers, Migrations, and Cancellations, by Resident Type

| INITIAL ISSUE | | | TRANSFERS | | MIGRATIONS | | CANCELLED | | 2021 YEAR-END | |
|---------------|------------|---------------|-----------|-----------------------------|------------|-----------------------------|------------|-----------------------------|---------------|---------------|
| Residency | Total | Percent | Change | Percent Change from Initial | Change | Percent Change from Initial | Change | Percent Change from Initial | Total | Percent |
| Local | 671 | 94.2% | 78 | 11.6% | -142 | -21.2% | -54 | -8.0% | 553 | 88.6% |
| Nonlocal | 40 | 5.6% | -76 | -190.0% | 138 | 345.0% | -32 | -80.0% | 70 | 11.2% |
| Nonresident | 1 | 0.1% | -2 | -200.0% | 4 | 400.0% | -1 | -100.0% | 2 | 0.3% |
| Total | 712 | 100.0% | 0 | 0.0% | 0 | 0.0% | -87 | -9.0% | 625 | 100.0% |

The number of permits held by each resident type can change for three reasons: permits can be transferred to other resident types (transfer); permit holders can move from one location to another (migration); or permits can be cancelled, such as when a permit holder does not pay the renewal fee for two consecutive years. This table indicates the extent to which these factors have contributed to net changes in permit holdings in this fishery.

Transfers of S04Y Permits

Under the Limited Entry Act's terms of free transferability, permits may be sold, traded, given away, or inherited. CFEC requires the completion of a survey with each transfer.⁵ The surveys provide information such as transfer acquisition methods, the relationship between individuals in the transaction, and the sale amount for instances when the permit is sold.

Table 3-2. Transfer Acquisition Methods for Lower Yukon Salmon Gillnet Permits, 1980-2021

| Acquisition Method | Lower Yukon Salmon Gillnet | | Statewide Salmon Set Gillnet | | All Fisheries Statewide | |
|--------------------|----------------------------|---------|------------------------------|---------|-------------------------|---------|
| | Count | Percent | Count | Percent | Count | Percent |
| Gift | 792 | 52.3% | 6,717 | 51.0% | 13,403 | 32.5% |
| Sale | 425 | 28.1% | 5,069 | 38.5% | 24,174 | 58.6% |
| Trade | 8 | 0.5% | 97 | 0.7% | 531 | 1.3% |
| Other | 288 | 19.0% | 1,282 | 9.7% | 3,134 | 7.6% |
| Total | 1,513 | | 13,165 | | 41,242 | |

Table 3-2 compares and contrasts the transfer acquisition methods for the S04Y permits, all statewide salmon set gillnet permits, and all limited entry permits between 1980 and 2021. About half of all S04Y transfers were gifts (52.3% or 792/1,513), more than a quarter were sales (28.1% or 425/1,513), and a smaller percentage were trades (0.5% or 8/1,513) or other (19.0% 288/1,513). The annual acquisition methods for S04Y permits can be viewed in a different publication.⁶

Table 3-3. Relationships of Transferor to Transfer Recipients for Lower Yukon Salmon Gillnet Permits, 1980-2021

| Relationship | Lower Yukon Salmon Gillnet | | Statewide Salmon Set Gillnet | | All Fisheries Statewide | |
|----------------------------|----------------------------|---------|------------------------------|---------|-------------------------|---------|
| | Count | Percent | Count | Percent | Count | Percent |
| Business Partner/Friend | 123 | 8.1% | 2,632 | 20.0% | 7,713 | 18.7% |
| Member of Immediate Family | 1,023 | 67.6% | 6,331 | 48.1% | 13,850 | 33.6% |
| Other Relative | 73 | 4.8% | 914 | 6.9% | 1,846 | 4.5% |
| Other | 294 | 19.4% | 3,288 | 25.0% | 17,833 | 43.2% |
| Total | 1,513 | | 13,165 | | 41,242 | |

Table 3-3 shows the relationships between the transferors and transfer recipients for S04Y permits, and compares S04Y permit transfers with all statewide salmon set gillnet permits, and all limited entry permits from 1980 to 2021. Transfers within the family, both between immediate family members and other relatives, total 72.4% (1,096/1,513) of all permit transfers for S04Y permits compared 55.0% (7,245/13,165) for all salmon set gillnet permits statewide, and 38.4% (15,696/41,242) for all limited entry permits statewide.

⁵ CFEC implemented the transfer survey in 1980.

⁶ See *Changes in the Distribution of Alaska's Commercial Fisheries Entry Permits, 1975-2021*, CFEC Report No. 22-2N.

Emergency Transfers of S04Y Permits

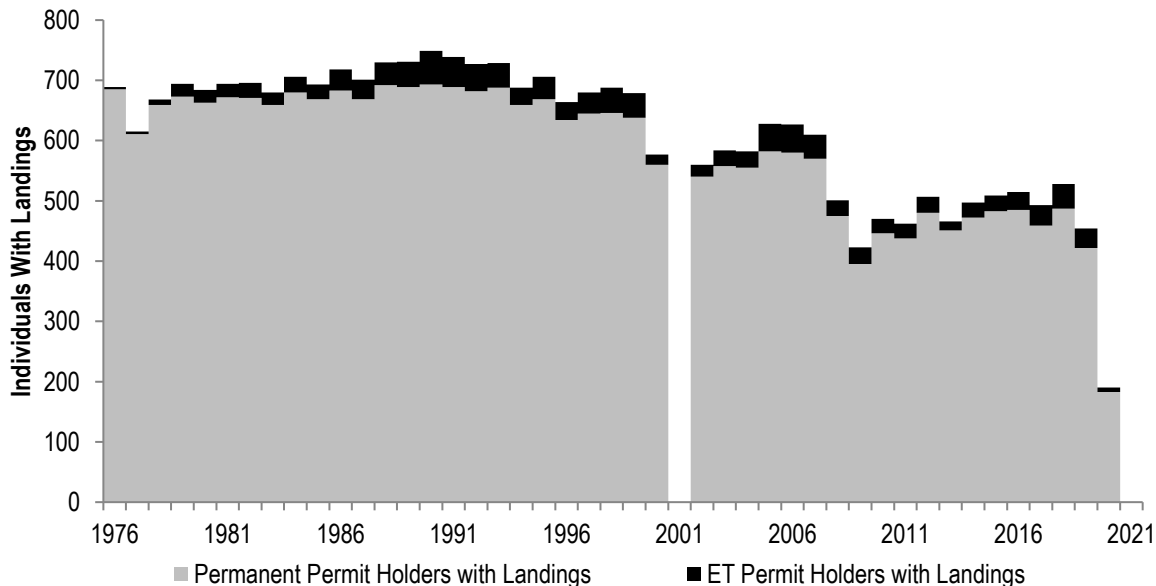
Commercial landings can be made with either permanently-held permits or with permits held temporarily through emergency transfers. Emergency transfers (ET) of permits are granted on permanent permits if illness, disability, death, required military or government service, or other unavoidable hardship of a temporary, unexpected, and unforeseen nature prevents the permanent permit holder from participating in the fishery. “Hardship” does not include the results of a permit holder’s own economic decisions, or the results of economic, biological or regulatory variables which are normally part of the risk of doing business as a fisherman. At the end of the year, ET permits automatically revert back to the permanent permit holder.

Table 3-4 and Figure 3-1 show the total number of individuals who recorded landings each year, and of that group, the number of individuals who made landings with ET permits. Some individuals who made landings with ET permits also made landings with permanent permits in the same year.

Table 3-4. Use of Emergency Transfer Permits in the Lower Yukon Salmon Gillnet Fishery, 1976-2021

| Year | Individuals With Landings | ET Permit Holders With Landings | ET Rate | Year | Individuals With Landings | ET Permit Holders With Landings | ET Rate | Year | Individuals With Landings | ET Permit Holders With Landings | ET Rate |
|------|---------------------------|---------------------------------|---------|------|---------------------------|---------------------------------|---------|------|---------------------------|---------------------------------|---------|
| 1976 | 685 | 4 | 0.6% | 1992 | 682 | 45 | 6.6% | 2008 | 475 | 26 | 5.5% |
| 1977 | 611 | 4 | 0.7% | 1993 | 688 | 41 | 6.0% | 2009 | 395 | 28 | 7.1% |
| 1978 | 659 | 9 | 1.4% | 1994 | 659 | 29 | 4.4% | 2010 | 446 | 24 | 5.4% |
| 1979 | 673 | 21 | 3.1% | 1995 | 669 | 37 | 5.5% | 2011 | 438 | 24 | 5.5% |
| 1980 | 663 | 21 | 3.2% | 1996 | 634 | 30 | 4.7% | 2012 | 480 | 27 | 5.6% |
| 1981 | 672 | 22 | 3.3% | 1997 | 645 | 35 | 5.4% | 2013 | 451 | 15 | 3.3% |
| 1982 | 671 | 25 | 3.7% | 1998 | 646 | 42 | 6.5% | 2014 | 472 | 25 | 5.3% |
| 1983 | 659 | 21 | 3.2% | 1999 | 638 | 41 | 6.4% | 2015 | 483 | 26 | 5.4% |
| 1984 | 680 | 26 | 3.8% | 2000 | 560 | 17 | 3.0% | 2016 | 485 | 30 | 6.2% |
| 1985 | 669 | 24 | 3.6% | 2001 | 0 | 0 | - | 2017 | 459 | 34 | 7.4% |
| 1986 | 683 | 35 | 5.1% | 2002 | 540 | 20 | 3.7% | 2018 | 487 | 41 | 8.4% |
| 1987 | 669 | 32 | 4.8% | 2003 | 558 | 26 | 4.7% | 2019 | 422 | 32 | 7.6% |
| 1988 | 692 | 38 | 5.5% | 2004 | 555 | 27 | 4.9% | 2020 | 183 | 7 | 3.8% |
| 1989 | 689 | 42 | 6.1% | 2005 | 582 | 46 | 7.9% | 2021 | 0 | 0 | - |
| 1990 | 693 | 56 | 8.1% | 2006 | 580 | 47 | 8.1% | | | | |
| 1991 | 689 | 50 | 7.3% | 2007 | 570 | 40 | 7.0% | | | | |

Figure 3-1. Use of Emergency Transfer Permits in the Lower Yukon Salmon Set Gillnet Fishery, 1976-2021



Latent S04Y Permits

CFEC regulations require individuals to renew their limited entry permits annually, regardless of whether they actually fish. Permits that are not used (don't record landings) in a given year are referred to herein as "latent" permits for that year.

Table 3-5 indicates the total number of issued S04Y permits issued each year, the number of permits fished (with commercial landings), and the rate of permit latency. Issued permits include both interim entry and permanent permits. Note that for this table, in years when a single individual held an interim-entry permit and was also issued a permanent permit, only the permanent permit is counted. The rate of latency is depicted in Figure 3-2.

There are many reasons why an individual might not fish in any given year. This table and figure do not explain any of these reasons.

Table 3-5. Lower Yukon Salmon Gillnet Permit Latency, 1976-2021

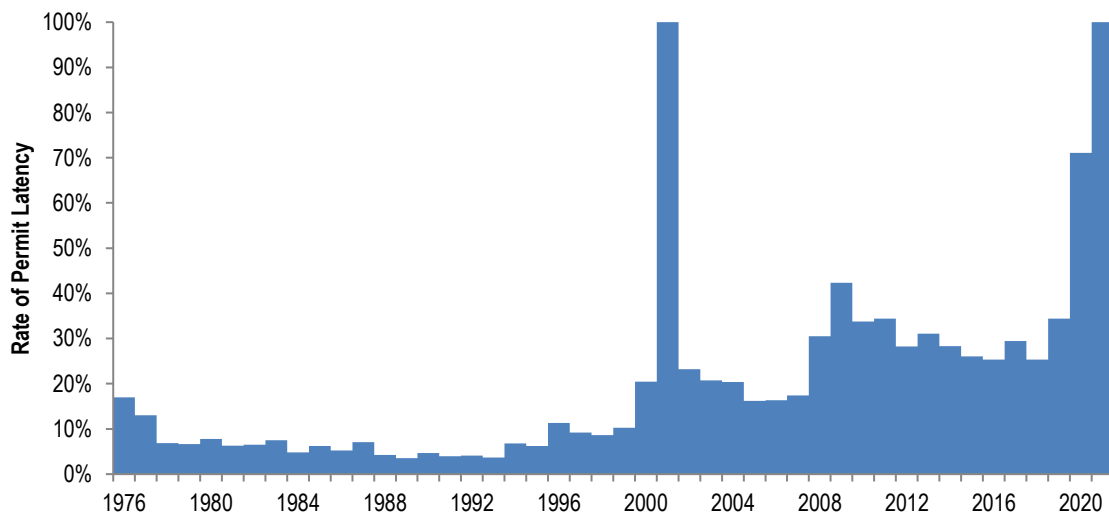
| Year | Permits | | Latency Rate |
|------|---------|--------|--------------|
| | Issued | Fished | |
| 1976 | 824 | 684 | 17.0% |
| 1977 | 700 | 609 | 13.0% |
| 1978 | 698 | 650 | 6.9% |
| 1979 | 708 | 661 | 6.6% |
| 1980 | 709 | 654 | 7.8% |
| 1981 | 711 | 666 | 6.3% |
| 1982 | 710 | 664 | 6.5% |
| 1983 | 708 | 655 | 7.5% |
| 1984 | 708 | 674 | 4.8% |
| 1985 | 708 | 664 | 6.2% |
| 1986 | 707 | 670 | 5.2% |
| 1987 | 706 | 656 | 7.1% |
| 1988 | 707 | 677 | 4.2% |
| 1989 | 707 | 682 | 3.5% |
| 1990 | 708 | 675 | 4.7% |
| 1991 | 708 | 680 | 4.0% |

| Year | Permits | | Latency Rate |
|------|---------|--------|--------------|
| | Issued | Fished | |
| 1992 | 707 | 678 | 4.1% |
| 1993 | 708 | 682 | 3.7% |
| 1994 | 707 | 659 | 6.8% |
| 1995 | 707 | 663 | 6.2% |
| 1996 | 707 | 627 | 11.3% |
| 1997 | 705 | 640 | 9.2% |
| 1998 | 704 | 643 | 8.7% |
| 1999 | 704 | 632 | 10.2% |
| 2000 | 704 | 560 | 20.5% |
| 2001 | 701 | 0 | 100.0% |
| 2002 | 702 | 539 | 23.2% |
| 2003 | 703 | 557 | 20.8% |
| 2004 | 692 | 551 | 20.4% |
| 2005 | 691 | 579 | 16.2% |
| 2006 | 686 | 574 | 16.3% |
| 2007 | 684 | 565 | 17.4% |

| Year | Permits | | Latency Rate |
|------|---------|--------|--------------|
| | Issued | Fished | |
| 2008 | 681 | 473 | 30.5% |
| 2009 | 678 | 391 | 42.3% |
| 2010 | 670 | 444 | 33.7% |
| 2011 | 665 | 436 | 34.4% |
| 2012 | 662 | 475 | 28.2% |
| 2013 | 654 | 451 | 31.0% |
| 2014 | 653 | 468 | 28.3% |
| 2015 | 649 | 480 | 26.0% |
| 2016 | 647 | 483 | 25.3% |
| 2017 | 648 | 457 | 29.5% |
| 2018 | 647 | 483 | 25.3% |
| 2019 | 634 | 416 | 34.4% |
| 2020 | 632 | 183 | 71.0% |
| 2021 | 625 | 0 | 100% |

- When an individual with an interim-entry permit is issued a permanent permit in the same year, only the permanent permit is counted in the above table.
- 'Permits Fished' is the number of CFEC permits that were used to record commercial landings in that year.

Figure 3-2. Lower Yukon Salmon Gillnet Permit Latency Rate, 1976-2021



New Entrants into the Lower Yukon Salmon Gillnet Fishery

New entrants are defined herein as individuals who, for the first time, record a landing on a permanent S04Y permit. It is important to note that initial permit holders are not considered new entrants because they needed a proven fishing history prior to 1976 in order to become an initial permit holder of a limited entry permit. Individuals who only make landings on an emergency transfer or interim-entry permit for any given year are not considered in this table.

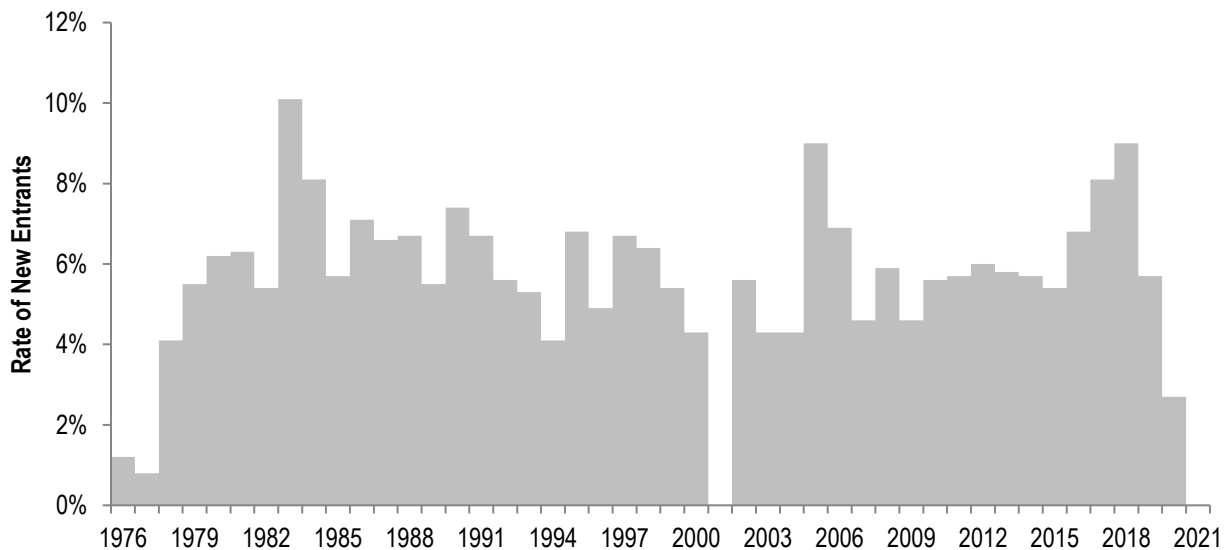
Table 3-6 and Figure 3-3 describe individuals rather than permits. An individual may hold up to two permits in this fishery, but can only fish one of them. An individual may hold one S04Y permit one year, and then in subsequent years hold a different S04Y permit. Likewise, individuals may enter and exit the fishery multiple times over the years. Individuals are only counted once as a new entrant and only in the year in which they made their first documented landing.

Table 3-6. New Entrants into the Lower Yukon Salmon Gillnet Fishery, 1976-2021

| Year | Individuals w/Landings | New Entrants Count | Percent | Year | Individuals w/Landings | New Entrants Count | Percent | Year | Individuals w/Landings | New Entrants Count | Percent | Year | Individuals w/Landings | New Entrants Count | Percent |
|------|------------------------|--------------------|---------|------|------------------------|--------------------|---------|------|------------------------|--------------------|---------|------|------------------------|--------------------|---------|
| 1976 | 519 | 6 | 1.2% | 1988 | 689 | 46 | 6.7% | 2000 | 557 | 24 | 4.3% | 2012 | 480 | 29 | 6.0% |
| 1977 | 603 | 5 | 0.8% | 1989 | 686 | 38 | 5.5% | 2001 | 0 | 0 | - | 2013 | 451 | 26 | 5.8% |
| 1978 | 655 | 27 | 4.1% | 1990 | 689 | 51 | 7.4% | 2002 | 538 | 30 | 5.6% | 2014 | 472 | 27 | 5.7% |
| 1979 | 667 | 37 | 5.5% | 1991 | 685 | 46 | 6.7% | 2003 | 554 | 24 | 4.3% | 2015 | 483 | 26 | 5.4% |
| 1980 | 660 | 41 | 6.2% | 1992 | 679 | 38 | 5.6% | 2004 | 552 | 24 | 4.3% | 2016 | 485 | 33 | 6.8% |
| 1981 | 667 | 42 | 6.3% | 1993 | 684 | 36 | 5.3% | 2005 | 581 | 52 | 9.0% | 2017 | 459 | 37 | 8.1% |
| 1982 | 668 | 36 | 5.4% | 1994 | 655 | 27 | 4.1% | 2006 | 579 | 40 | 6.9% | 2018 | 487 | 44 | 9.0% |
| 1983 | 654 | 66 | 10.1% | 1995 | 665 | 45 | 6.8% | 2007 | 569 | 26 | 4.6% | 2019 | 422 | 24 | 5.7% |
| 1984 | 676 | 55 | 8.1% | 1996 | 631 | 31 | 4.9% | 2008 | 474 | 28 | 5.9% | 2020 | 183 | 5 | 2.7% |
| 1985 | 666 | 38 | 5.7% | 1997 | 642 | 43 | 6.7% | 2009 | 395 | 18 | 4.6% | 2021 | 0 | 0 | - |
| 1986 | 680 | 48 | 7.1% | 1998 | 643 | 41 | 6.4% | 2010 | 446 | 25 | 5.6% | | | | |
| 1987 | 666 | 44 | 6.6% | 1999 | 634 | 34 | 5.4% | 2011 | 438 | 25 | 5.7% | | | | |

- This table excludes individuals with interim-entry and emergency transfer permits.

Figure 3-3. New Entrants into the Lower Yukon Salmon Gillnet Fishery, 1976-2021



Age of S04Y Permit Holders

Table 3-7. Mean Age of Select CFEC Permit Holders and the General Alaskan Population

| Year | S04Y | Statewide Salmon Set Gillnet | Statewide All Permits | Mean AK Worker Age |
|------|------|------------------------------|-----------------------|--------------------|
| 1980 | 38.7 | 37.9 | 38.9 | 33.4 |
| 1981 | 38.9 | 38.0 | 39.9 | 33.5 |
| 1982 | 38.8 | 38.2 | 40.0 | 33.6 |
| 1983 | 37.8 | 38.0 | 40.2 | 33.7 |
| 1984 | 37.9 | 38.2 | 40.4 | 33.8 |
| 1985 | 38.3 | 38.5 | 40.8 | 34.0 |
| 1986 | 38.4 | 38.8 | 41.0 | 34.2 |
| 1987 | 38.4 | 39.0 | 40.9 | 34.5 |
| 1988 | 38.8 | 39.3 | 41.2 | 34.9 |
| 1989 | 38.9 | 39.9 | 41.5 | 35.3 |
| 1990 | 39.4 | 40.0 | 42.0 | 35.5 |
| 1991 | 39.6 | 40.5 | 42.5 | 35.9 |
| 1992 | 40.0 | 40.8 | 42.9 | 36.2 |
| 1993 | 40.1 | 41.2 | 43.5 | 36.5 |
| 1994 | 40.4 | 41.5 | 44.0 | 36.7 |
| 1995 | 40.7 | 41.9 | 44.4 | 37.0 |
| 1996 | 41.2 | 42.3 | 44.8 | 37.2 |
| 1997 | 41.5 | 42.6 | 45.1 | 37.4 |
| 1998 | 41.7 | 43.1 | 45.6 | 37.6 |
| 1999 | 42.1 | 43.4 | 46.0 | 37.8 |
| 2000 | 42.0 | 43.7 | 46.4 | 37.9 |
| 2001 | 42.8 | 44.1 | 46.9 | 38.1 |
| 2002 | 43.4 | 44.8 | 47.4 | 38.3 |
| 2003 | 43.9 | 45.2 | 47.9 | 38.4 |
| 2004 | 44.5 | 45.4 | 48.2 | 38.6 |
| 2005 | 44.8 | 45.4 | 48.4 | 38.7 |
| 2006 | 45.2 | 45.6 | 48.7 | 38.8 |
| 2007 | 45.4 | 45.9 | 48.9 | 38.9 |
| 2008 | 45.3 | 45.9 | 49.0 | 39.0 |
| 2009 | 45.7 | 46.1 | 49.3 | 39.1 |
| 2010 | 46.3 | 46.3 | 49.5 | 39.2 |
| 2011 | 46.2 | 46.6 | 49.6 | 39.4 |
| 2012 | 46.0 | 47.0 | 49.8 | 39.4 |
| 2013 | 46.2 | 47.0 | 50.0 | 39.5 |
| 2014 | 46.4 | 47.2 | 50.2 | 39.5 |
| 2015 | 46.8 | 47.6 | 50.6 | 39.5 |
| 2016 | 46.6 | 48.0 | 50.9 | 39.6 |
| 2017 | 46.2 | 48.2 | 51.3 | 40.1 |
| 2018 | 45.9 | 48.4 | 51.7 | 40.1 |
| 2019 | 45.9 | 48.8 | 51.9 | 40.1 |
| 2020 | 46.2 | 49.2 | 52.3 | 40.0 |
| 2021 | 46.8 | 49.5 | 52.6 | 39.9 |

- Mean AK Working Age is the annual average age of all Alaskans age 16-64 as reported by the Alaska Department of Labor and Workforce Development, Research and Analysis Section.
- Age data from the CFEC permit file is as of December 31st of each year.

Table 3-7 shows the annual mean age of four different cohorts of people: 1) lower Yukon salmon gillnet (S04Y) permit holders; 2) all salmon set gillnet permit holders statewide; 3) all CFEC limited entry permit holders; and 4) the Alaskan working population.

Note that these figures include ages of permit holders for both transferable and non-transferable permits. Some individuals hold permits in more than one fishery; in these cases, the age of the permit holder is counted once for each permit that he or she holds.

The mean age of the general Alaskan working age population has increased 6.5 years between 1980 and 2021. The change in ages over the same period for all CFEC permit holders was 13.7 years, and 11.6 years for the statewide set gillnet permit holders.

For S04Y permit holders, the mean age increased 8.1 years.

S04Y Permit Value

Many permit transfers are non-monetary transactions (see Table 3-2). Table 3-8 considers solely arms-length market transactions where permits are sold. CFEC estimated values are expressed in both nominal and real (adjusted for inflation) terms.

Table 3-8. CFEC Estimated Value of Lower Yukon Salmon Gillnet Permits

| Year | S04Y Permit Sales | Nominal Permit Value | Real Permit Value | Real Standard Deviation |
|------|-------------------|----------------------|-------------------|-------------------------|
| 1987 | 10 | \$21,500 | \$53,300 | \$4,700 |
| 1988 | 11 | \$22,600 | \$53,800 | \$10,800 |
| 1989 | 11 | \$25,500 | \$57,900 | \$9,800 |
| 1990 | 8 | \$27,600 | \$59,300 | \$6,200 |
| 1991 | 10 | \$26,500 | \$54,900 | \$4,600 |
| 1992 | 9 | \$29,300 | \$58,700 | \$6,000 |
| 1993 | 8 | \$31,400 | \$61,000 | \$4,700 |
| 1994 | 6 | \$23,300 | \$44,200 | \$8,500 |
| 1995 | 10 | \$23,000 | \$42,400 | \$8,500 |
| 1996 | 9 | \$19,400 | \$34,800 | \$2,600 |
| 1997 | 9 | \$17,500 | \$30,600 | \$3,300 |
| 1998 | 12 | \$16,000 | \$27,500 | \$2,300 |
| 1999 | 12 | \$12,200 | \$20,500 | \$2,900 |
| 2000 | 11 | \$11,800 | \$19,300 | \$2,100 |
| 2001 | 2 | \$11,400 | \$18,400 | \$1,300 |
| 2002 | 1 | \$12,700 | \$21,500 | \$4,300 |
| 2003 | 3 | \$11,200 | \$17,300 | \$6,700 |
| 2004 | 14 | \$7,600 | \$11,300 | \$1,900 |
| 2005 | 9 | \$8,400 | \$12,100 | \$800 |
| 2006 | 13 | \$9,300 | \$13,000 | \$1,500 |
| 2007 | 8 | \$9,900 | \$13,500 | \$200 |
| 2008 | 9 | \$8,800 | \$11,500 | \$1,000 |
| 2009 | 4 | \$9,100 | \$11,900 | \$1,000 |
| 2010 | 1 | \$9,100 | \$12,000 | \$900 |
| 2011 | 7 | \$9,000 | \$11,200 | \$1,300 |
| 2012 | 12 | \$9,400 | \$11,600 | \$1,300 |
| 2013 | 8 | \$11,200 | \$13,500 | \$2,100 |
| 2014 | 8 | \$8,600 | \$10,200 | \$2,800 |
| 2015 | 6 | \$9,900 | \$11,800 | \$200 |
| 2016 | 9 | \$9,800 | \$11,500 | \$900 |
| 2017 | 14 | \$9,700 | \$11,100 | \$700 |
| 2018 | 9 | \$10,700 | \$11,900 | \$1,000 |
| 2019 | 9 | \$9,800 | \$10,800 | \$900 |
| 2020 | 3 | \$9,500 | \$10,400 | \$1,000 |
| 2021 | 2 | \$10,000 | \$10,500 | \$200 |

- Permit values represent averages of all arms-length sale transactions over the year. Beginning in 1991, additional data from recent months in the preceding year may be included until at least four observations can be averaged.
- Real permit values were calculated using the 2022 Consumer Price Index from the U.S. Bureau of Labor Statistics.

Participation and Earnings

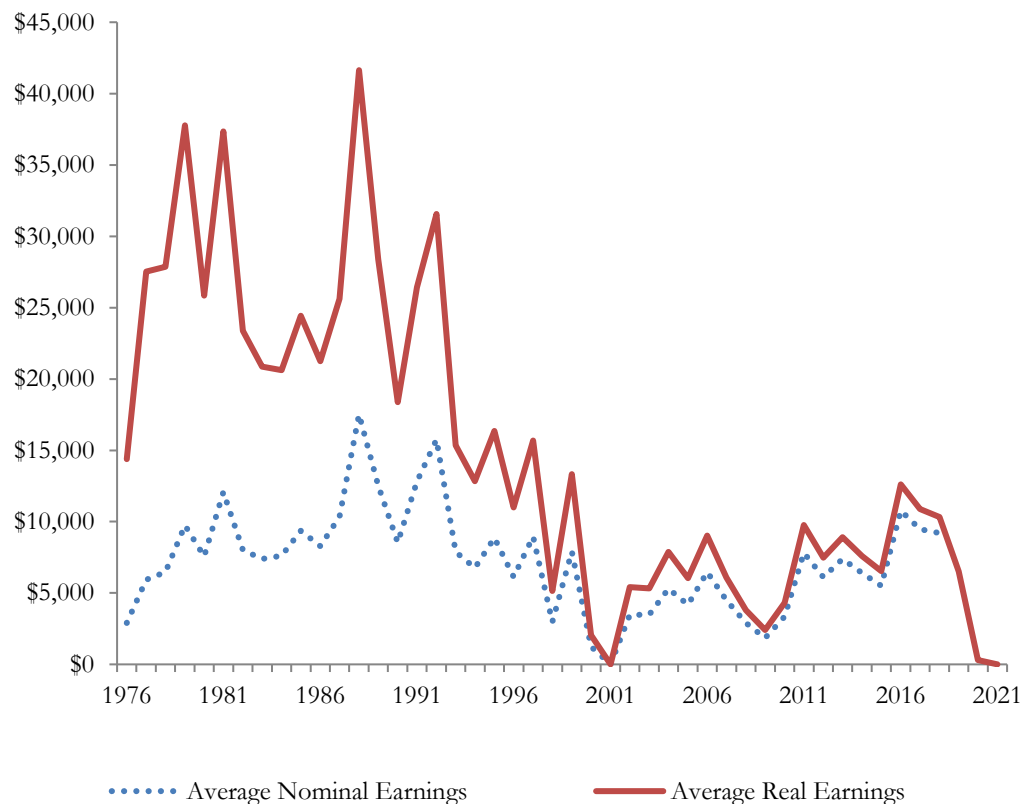
Earnings are estimated from weighted average ex-vessel prices, and as noted earlier, come primarily from the ADF&G Commercial Operators Annual Report and fish ticket values. Earnings shown in Figure 3-4 reflect both nominal and real dollars using the 2022 Consumer Price Index from the U.S. Bureau of Labor Statistics.

Permit counts include interim-entry permits and permanent permits. Interim-entry permits are issued to individuals during the period when their applications for permanent permits are in adjudication. The last year an interim-entry permit was held in the lower Yukon salmon gillnet fishery was in 2008. Some individuals made landings on both an interim-entry permit and subsequently on their newly issued permanent permit in the same year; for these instances, only the permanent permit is counted in this report.

Table 3-9 reports the number of permit issued, and estimated gross earnings in the lower Yukon salmon gillnet fishery from 1976 to 2021. Note that the figures by permit or vessel in this table span the entire year, regardless of who held the permit or however many times the permit was transferred.

Table 3-10 reports the number of permit holders (people) and estimated real (inflation adjusted) gross earnings by each resident type.

Figure 3-4. Estimated Nominal and Real Average Gross Earnings Per Lower Yukon Salmon Set Gillnet Permit



- Real earnings are adjusted for inflation using the 2022 U.S. Bureau of Labor Statistics Consumer Price Index.

Table 3-9. Estimated Total Gross Earnings (Real and Nominal) for the Lower Yukon Salmon Gillnet Fishery, With Average Gross (Real) Earnings by Permit, 1976-2021

| Year | Permits Issued | Total Gross Earnings | | Permits With Landings | Average Real Earnings |
|------|----------------|----------------------|--------------|-----------------------|-----------------------|
| | | Nominal | Real | | |
| 1976 | 824 | \$1,991,437 | \$9,838,427 | 684 | \$14,384 |
| 1977 | 700 | \$3,612,875 | \$16,759,291 | 609 | \$27,519 |
| 1978 | 698 | \$4,203,021 | \$18,114,525 | 650 | \$27,869 |
| 1979 | 708 | \$6,446,085 | \$24,971,464 | 661 | \$37,778 |
| 1980 | 709 | \$4,954,172 | \$16,901,877 | 654 | \$25,844 |
| 1981 | 711 | \$8,041,931 | \$24,866,351 | 666 | \$37,337 |
| 1982 | 710 | \$5,328,701 | \$15,524,909 | 664 | \$23,381 |
| 1983 | 708 | \$4,840,317 | \$13,663,108 | 655 | \$20,860 |
| 1984 | 708 | \$5,133,349 | \$13,892,803 | 674 | \$20,612 |
| 1985 | 708 | \$6,209,106 | \$16,228,798 | 664 | \$24,441 |
| 1986 | 707 | \$5,547,100 | \$14,228,445 | 670 | \$21,236 |
| 1987 | 706 | \$6,793,947 | \$16,810,601 | 656 | \$25,626 |
| 1988 | 707 | \$11,857,416 | \$28,189,886 | 677 | \$41,639 |
| 1989 | 707 | \$8,536,722 | \$19,360,706 | 682 | \$28,388 |
| 1990 | 708 | \$5,762,308 | \$12,399,219 | 675 | \$18,369 |
| 1991 | 708 | \$8,707,838 | \$17,976,072 | 680 | \$26,435 |
| 1992 | 707 | \$10,682,685 | \$21,404,553 | 678 | \$31,570 |
| 1993 | 708 | \$5,378,271 | \$10,467,310 | 682 | \$15,348 |
| 1994 | 707 | \$4,459,562 | \$8,458,742 | 659 | \$12,836 |
| 1995 | 707 | \$5,874,194 | \$10,837,917 | 663 | \$16,347 |
| 1996 | 707 | \$3,850,635 | \$6,902,125 | 627 | \$11,008 |
| 1997 | 705 | \$5,734,919 | \$10,044,819 | 640 | \$15,695 |
| 1998 | 704 | \$1,914,999 | \$3,302,887 | 643 | \$5,137 |
| 1999 | 704 | \$4,987,350 | \$8,417,731 | 632 | \$13,319 |
| 2000 | 704 | \$701,356 | \$1,145,093 | 560 | \$2,045 |
| 2001 | 701 | 0 | 0 | 0 | 0 |
| 2002 | 702 | \$1,869,622 | \$2,922,254 | 539 | \$5,422 |
| 2003 | 703 | \$1,940,035 | \$2,965,003 | 557 | \$5,323 |
| 2004 | 692 | \$2,919,381 | \$4,345,424 | 551 | \$7,886 |
| 2005 | 691 | \$2,425,264 | \$3,491,486 | 579 | \$6,030 |
| 2006 | 686 | \$3,712,163 | \$5,177,135 | 574 | \$9,019 |
| 2007 | 684 | \$2,534,236 | \$3,436,322 | 565 | \$6,082 |
| 2008 | 681 | \$1,372,385 | \$1,792,098 | 473 | \$3,789 |
| 2009 | 678 | \$719,618 | \$943,051 | 391 | \$2,412 |
| 2010 | 670 | \$1,489,327 | \$1,920,251 | 444 | \$4,325 |
| 2011 | 665 | \$3,405,689 | \$4,256,718 | 436 | \$9,763 |
| 2012 | 662 | \$2,900,023 | \$3,551,208 | 475 | \$7,476 |
| 2013 | 654 | \$3,326,832 | \$4,015,040 | 451 | \$8,903 |
| 2014 | 653 | \$2,991,498 | \$3,552,704 | 468 | \$7,591 |
| 2015 | 649 | \$2,642,616 | \$3,134,653 | 480 | \$6,531 |
| 2016 | 647 | \$5,203,493 | \$6,095,450 | 483 | \$12,620 |
| 2017 | 648 | \$4,333,113 | \$4,970,007 | 457 | \$10,875 |
| 2018 | 647 | \$4,449,521 | \$4,981,840 | 483 | \$10,314 |
| 2019 | 634 | \$2,466,569 | \$2,712,501 | 416 | \$6,520 |
| 2020 | 632 | \$51,384 | \$55,819 | 183 | \$305 |
| 2021 | 625 | 0 | 0 | 0 | 0 |

- Adjusted for inflation to 2022 dollars using U.S. Bureau of Labor Statistics Consumer Price Index.
- Counts will differ from CFEC on-line Basic Information Tables where the on-line data does not account for the combination of interim-entry permits that were issued as permanent permits in the same year.

Table 3-10. Estimated Real Gross Earnings for Permit Holders in the Lower Yukon Salmon Gillnet Fishery by Resident Type, 1976-2021

| Year | Local Gross Earnings | | | Nonlocal Gross Earnings | | | Nonresident Gross Earnings | | | Total Gross Earnings | | |
|------|-------------------------|----------|--------------|----------------------------|--------------|--------------|-------------------------------|--------------|--------------|-------------------------|----------|--------------|
| | People | Average | Total | People | Average | Total | People | Average | Total | People | Average | Total |
| 1976 | 654 | \$13,885 | \$9,080,944 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 685 | \$14,363 | \$9,838,427 |
| 1977 | 588 | \$27,115 | \$15,943,698 | 23 | \$35,461 | \$815,593 | 0 | - | - | 611 | \$27,429 | \$16,759,291 |
| 1978 | 621 | \$27,570 | \$17,121,142 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 659 | \$27,488 | \$18,114,525 |
| 1979 | 629 | \$37,231 | \$23,418,093 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 673 | \$37,105 | \$24,971,464 |
| 1980 | 612 | \$25,495 | \$15,602,875 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 663 | \$25,493 | \$16,901,877 |
| 1981 | 623 | \$36,612 | \$22,809,114 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 672 | \$37,003 | \$24,866,351 |
| 1982 | 609 | \$22,935 | \$13,967,534 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 671 | \$23,137 | \$15,524,909 |
| 1983 | 590 | \$20,536 | \$12,116,188 | 65 | \$22,146 | \$1,439,481 | 4 | \$26,860 | \$107,439 | 659 | \$20,733 | \$13,663,108 |
| 1984 | 603 | \$20,382 | \$12,290,459 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 680 | \$20,431 | \$13,892,803 |
| 1985 | 592 | \$23,363 | \$13,830,659 | 73 | \$30,384 | \$2,218,007 | 4 | \$45,033 | \$180,132 | 669 | \$24,258 | \$16,228,798 |
| 1986 | 601 | \$20,523 | \$12,334,251 | 77 | \$22,344 | \$1,720,459 | 5 | \$34,747 | \$173,735 | 683 | \$20,832 | \$14,228,445 |
| 1987 | 590 | \$24,278 | \$14,324,305 | 75 | \$31,403 | \$2,355,242 | 4 | \$32,763 | \$131,054 | 669 | \$25,128 | \$16,810,601 |
| 1988 | 607 | \$40,634 | \$24,664,544 | 81 | \$42,035 | \$3,404,806 | 4 | \$30,134 | \$120,536 | 692 | \$40,737 | \$28,189,886 |
| 1989 | 589 | \$27,654 | \$16,288,346 | 96 | \$30,731 | \$2,950,157 | 4 | \$30,551 | \$122,204 | 689 | \$28,100 | \$19,360,706 |
| 1990 | 594 | \$17,414 | \$10,343,642 | 94 | \$20,683 | \$1,944,243 | 5 | \$22,267 | \$111,334 | 693 | \$17,892 | \$12,399,219 |
| 1991 | 591 | \$26,040 | \$15,389,580 | 91 | \$26,104 | \$2,375,471 | 7 | \$30,146 | \$211,021 | 689 | \$26,090 | \$17,976,072 |
| 1992 | 584 | \$30,976 | \$18,090,078 | 91 | \$33,717 | \$3,068,210 | 7 | \$35,181 | \$246,265 | 682 | \$31,385 | \$21,404,553 |
| 1993 | 583 | \$15,320 | \$8,931,673 | 95 | \$14,889 | \$1,414,497 | 10 | \$12,114 | \$121,139 | 688 | \$15,214 | \$10,467,310 |
| 1994 | 568 | \$12,744 | \$7,238,601 | 85 | \$13,631 | \$1,158,597 | 6 | \$10,257 | \$61,543 | 659 | \$12,836 | \$8,458,742 |
| 1995 | 571 | \$16,332 | \$9,325,596 | 92 | \$15,618 | \$1,436,848 | 6 | \$12,579 | \$75,473 | 669 | \$16,200 | \$10,837,917 |
| 1996 | 556 | \$10,927 | \$6,075,270 | 72 | \$10,693 | \$769,866 | 6 | \$9,498 | \$56,989 | 634 | \$10,887 | \$6,902,125 |
| 1997 | 568 | \$15,461 | \$8,782,041 | 73 | \$16,649 | \$1,215,344 | 4 | \$11,858 | \$47,434 | 645 | \$15,573 | \$10,044,819 |
| 1998 | 558 | \$5,119 | \$2,856,413 | 84 | \$5,155 | \$433,026 | 4 | \$3,362 | \$13,449 | 646 | \$5,113 | \$3,302,887 |
| 1999 | 560 | \$13,228 | \$7,407,902 | 74 | \$13,215 | \$977,937 | 4 | \$6,430 | \$25,718 | 638 | \$13,184 | \$8,411,558 |
| 2000 | 494 | \$2,010 | \$992,797 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 560 | \$2,045 | \$1,145,093 |
| 2001 | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| 2002 | 498 | \$5,520 | \$2,748,727 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 540 | \$5,412 | \$2,922,254 |
| 2003 | 510 | \$5,352 | \$2,729,555 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 558 | \$5,314 | \$2,965,003 |
| 2004 | 504 | \$7,996 | \$4,030,129 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 555 | \$7,830 | \$4,345,424 |
| 2005 | 521 | \$6,205 | \$3,232,932 | 61 | \$4,239 | \$258,554 | 0 | - | - | 582 | \$5,999 | \$3,491,486 |
| 2006 | 523 | \$9,137 | \$4,778,711 | 57 | \$6,990 | \$398,425 | 0 | - | - | 580 | \$8,926 | \$5,177,135 |
| 2007 | 513 | \$6,245 | \$3,203,732 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 570 | \$6,029 | \$3,436,322 |
| 2008 | 448 | \$3,880 | \$1,738,302 | 27 | \$1,992 | \$53,796 | 0 | - | - | 475 | \$3,773 | \$1,792,098 |
| 2009 | 378 | \$2,446 | \$924,417 | 17 | \$1,096 | \$18,634 | 0 | - | - | 395 | \$2,387 | \$943,051 |
| 2010 | 420 | \$4,314 | \$1,811,984 | 26 | \$4,164 | \$108,267 | 0 | - | - | 446 | \$4,305 | \$1,920,251 |
| 2011 | 416 | \$9,976 | \$4,150,137 | 22 | \$4,845 | \$106,581 | 0 | - | - | 438 | \$9,719 | \$4,256,718 |
| 2012 | 447 | \$7,569 | \$3,383,276 | 33 | \$5,089 | \$167,931 | 0 | - | - | 480 | \$7,398 | \$3,551,208 |
| 2013 | 427 | \$9,026 | \$3,854,285 | 23 | \$6,964 | \$160,183 | 0 | - | - | 451 | \$8,903 | \$4,015,040 |
| 2014 | 442 | \$7,736 | \$3,419,457 | 30 | \$4,442 | \$133,248 | 0 | - | - | 472 | \$7,527 | \$3,552,704 |
| 2015 | 456 | \$6,479 | \$2,954,223 | 27 | \$6,683 | \$180,430 | 0 | - | - | 483 | \$6,490 | \$3,134,653 |
| 2016 | 452 | \$12,749 | \$5,762,441 | 33 | \$10,091 | \$333,009 | 0 | - | - | 485 | \$12,568 | \$6,095,450 |
| 2017 | 426 | \$10,856 | \$4,624,448 | 33 | \$10,471 | \$345,558 | 0 | - | - | 459 | \$10,828 | \$4,970,007 |
| 2018 | 453 | \$10,434 | \$4,726,589 | 34 | \$7,507 | \$255,251 | 0 | - | - | 487 | \$10,230 | \$4,981,840 |
| 2019 | 396 | \$6,546 | \$2,592,210 | 26 | \$4,627 | \$120,291 | 0 | - | - | 422 | \$6,428 | \$2,712,501 |
| 2020 | 173 | \$314 | \$54,301 | 10 | \$152 | \$1,517 | 0 | - | - | 183 | \$305 | \$55,819 |
| 2021 | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |

- Adjusted for inflation to 2022 dollars using U.S. Bureau of Labor Statistics Consumer Price Index.
- When fewer than four individuals in a cohort make landings, counts of participation and earnings are masked for both that cohort and at least one other cohort that year.
- Counts will differ from CFEC on-line Basic Information Tables where the on-line data does not account for the combination of interim-entry permits that were issued as permanent permits in the same year.
- Note that these counts are for individuals, not permits.

Chapter 4 Kuskokwim Salmon Gillnet Fishery

S04W Permit Holdings

Limited entry permits for the Kuskokwim salmon gillnet fishery (S04W permits) were issued starting in 1976. CFEC has issued 839 S04W permits. Table 4-1 indicates the initial distribution and historical net changes in permit holdings for the fishery. Of this total, Alaska Locals received 99.4% (834/839) of the permits, and the remaining 0.6% (5/839) permits went to Nonlocal Alaskans. Every S04W permits were issued as transferable permits.

Table 4-1. Initial Issuance and Year-end 2021 Totals of Kuskokwim Salmon Gillnet Permits, With Net Changes Due to Permit Transfers, Migrations, and Cancellations, by Resident Type

| INITIAL ISSUE | | | TRANSFERS | | MIGRATIONS | | CANCELLED | | 2021 YEAR-END | |
|---------------|------------|---------------|-----------|-----------------------------|------------|-----------------------------|-------------|-----------------------------|---------------|---------------|
| Residency | Total | Percent | Change | Percent Change from Initial | Change | Percent Change from Initial | Change | Percent Change from Initial | Total | Percent |
| Local | 834 | 99.4% | 36 | 4.3% | -77 | -9.2% | -118 | -14.15% | 675 | 95.7% |
| Nonlocal | 5 | 0.6% | -37 | -740.0% | 71 | 1420.0% | -15 | -300.0% | 24 | 3.4% |
| Nonresident | 0 | 0.0% | -1 | - | 6 | - | -1 | - | 6 | 0.9% |
| Total | 839 | 100.0% | 0 | 0.0% | 0 | 0.0% | -140 | -15.9% | 705 | 100.0% |

The number of permits held by each resident type can change for three reasons: permits can be transferred to other resident types (transfer); permit holders can move from one location to another (migration); or permits can be cancelled, such as when a permit holder does not pay the renewal fee for two consecutive years. This table indicates the extent to which these factors have contributed to net changes in permit holdings in this fishery.

Transfers of S04W Permits

Under the Limited Entry Act's terms of free transferability, permits may be sold, traded, given away, or inherited. CFEC requires the completion of a survey with each transfer.⁷ The surveys provide information such as transfer acquisition methods, the relationship between individuals in the transaction, and the sale amount for instances when the permit is sold.

Table 4-2. Transfer Acquisition Methods for Kuskokwim Salmon Gillnet Permits, 1980-2021

| Acquisition Method | Kuskokwim Salmon Gillnet | | Statewide Salmon Set Gillnet | | All Fisheries Statewide | |
|--------------------|--------------------------|---------|------------------------------|---------|-------------------------|---------|
| | Count | Percent | Count | Percent | Count | Percent |
| Gift | 910 | 61.2% | 6,717 | 51.0% | 13,403 | 32.5% |
| Sale | 323 | 21.7% | 5,069 | 38.5% | 24,174 | 58.6% |
| Trade | 9 | 0.6% | 97 | 0.7% | 531 | 1.3% |
| Other | 246 | 16.5% | 1,282 | 9.7% | 3,134 | 7.6% |
| Total | 1,488 | | 13,165 | | 41,242 | |

Table 4-2 compares and contrasts the transfer acquisition methods for the S04W permits, all statewide salmon set gillnet permits, and all limited entry permits between 1980 and 2021. Almost two thirds of all S04W transfers were gifts (61.2% or 910/1,488), more than a fifth were sales (21.7% or 323/1,488), and a smaller percentage were trades (0.6% or 9/1,488) or other (16.5% or 246/1,488). The annual acquisition methods for S04W permits can be viewed in a different publication.⁸

Table 4-3. Relationships of Transferor to Transfer Recipients for Kuskokwim Salmon Gillnet Permits, 1980-2021

| Relationship | Kuskokwim Salmon Gillnet | | Statewide Salmon Set Gillnet | | All Fisheries Statewide | |
|----------------------------|--------------------------|---------|------------------------------|---------|-------------------------|---------|
| | Count | Percent | Count | Percent | Count | Percent |
| Business Partner/Friend | 104 | 7.0% | 2,632 | 20.0% | 7,713 | 18.7% |
| Member of Immediate Family | 1,077 | 72.4% | 6,331 | 48.1% | 13,850 | 33.6% |
| Other Relative | 103 | 6.9% | 914 | 6.9% | 1,846 | 4.5% |
| Other | 204 | 13.7% | 3,288 | 25.0% | 17,833 | 43.2% |
| Total | 1,488 | | 13,165 | | 41,242 | |

Table 4-3 shows the relationships between the transferors and transfer recipients for S04W permits and compares S04W permit transfers with all statewide salmon set gillnet permits, and all limited entry permits from 1980 to 2021. Transfers within the family, both between immediate family members and other relatives, total 79.3% (1,180/1,488) of all permit transfers for S04W permits compared 55.0% (7,245/13,165) for all salmon set gillnet permits statewide, and 38.1% (15,696/41,242) for all limited entry permits statewide.

⁷ CFEC implemented the transfer survey in 1980.

⁸ See *Changes in the Distribution of Alaska's Commercial Fisheries Entry Permits, 1975-2021*, CFEC Report No. 22-2N.

Emergency Transfers of S04W Permits

Commercial landings can be made with either permanently held permits or with permits held temporarily through emergency transfers. Emergency transfers (ET) of permits are granted on permanent permits if illness, disability, death, required military or government service, or other unavoidable hardship of a temporary, unexpected, and unforeseen nature prevents the permanent permit holder from participating in the fishery. “Hardship” does not include the results of a permit holder’s own economic decisions, or the results of economic, biological or regulatory variables which are normally part of the risk of doing business as a fisherman. At the end of the year, ET permits automatically revert to the permanent permit holder.

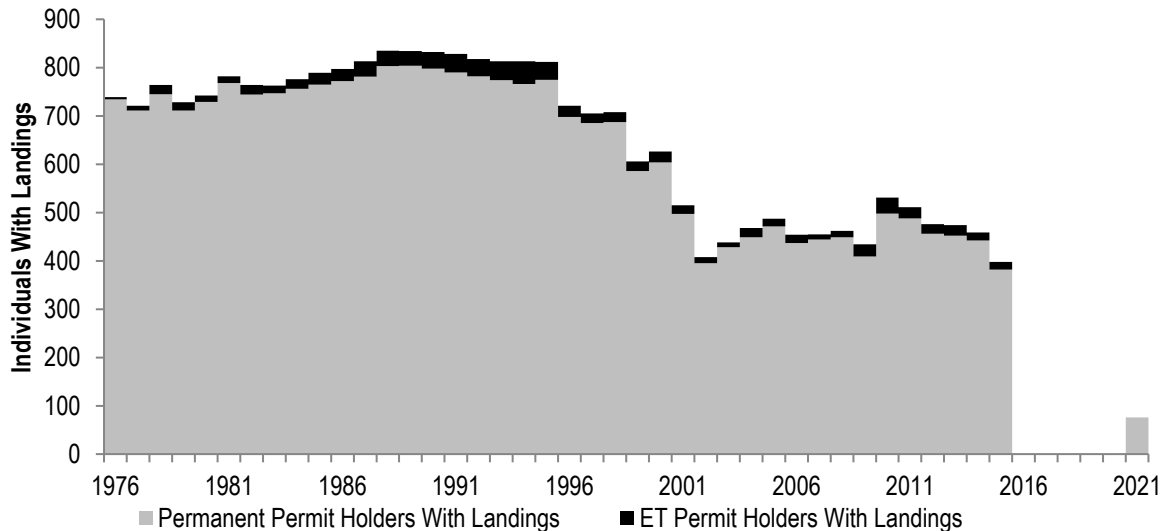
Table 4-4 and Figure 4-1 show the total number of individuals who recorded landings each year, and of that group, the number of individuals who made landings with ET permits. Some individuals who made landings with ET permits also made landings with permanent permits in the same year.

Table 4-4. Use of Emergency Transfer Permits in the Kuskokwim Salmon Gillnet Fishery, 1976-2021

| Year | Individuals With Landings | ET Permit Holders With Landings | ET Rate | Year | Individuals With Landings | ET Permit Holders With Landings | ET Rate | Year | Individuals With Landings | ET Permit Holders With Landings | ET Rate |
|------|---------------------------|---------------------------------|---------|------|---------------------------|---------------------------------|---------|------|---------------------------|---------------------------------|---------|
| 1976 | 739 | 5 | 0.7% | 1992 | 818 | 36 | 4.4% | 2008 | 462 | 13 | 2.8% |
| 1977 | 721 | 10 | 1.4% | 1993 | 813 | 39 | 4.8% | 2009 | 434 | 25 | 5.8% |
| 1978 | 764 | 19 | 2.5% | 1994 | 813 | 47 | 5.8% | 2010 | 531 | 33 | 6.2% |
| 1979 | 728 | 17 | 2.3% | 1995 | 812 | 37 | 4.6% | 2011 | 511 | 23 | 4.5% |
| 1980 | 742 | 13 | 1.8% | 1996 | 721 | 23 | 3.2% | 2012 | 476 | 20 | 4.2% |
| 1981 | 782 | 14 | 1.8% | 1997 | 705 | 20 | 2.8% | 2013 | 474 | 22 | 4.6% |
| 1982 | 764 | 20 | 2.6% | 1998 | 708 | 21 | 3.0% | 2014 | 459 | 17 | 3.7% |
| 1983 | 763 | 16 | 2.1% | 1999 | 606 | 20 | 3.3% | 2015 | 398 | 16 | 4.0% |
| 1984 | 776 | 20 | 2.6% | 2000 | 626 | 22 | 3.5% | 2016 | 1 to 3 | 0 | 0.0% |
| 1985 | 789 | 24 | 3.0% | 2001 | 515 | 18 | 3.5% | 2017 | 1 to 3 | 0 | 0.0% |
| 1986 | 797 | 25 | 3.1% | 2002 | 408 | 13 | 3.2% | 2018 | 1 to 3 | 0 | 0.0% |
| 1987 | 813 | 32 | 3.9% | 2003 | 438 | 10 | 2.3% | 2019 | 1 to 3 | 0 | 0.0% |
| 1988 | 835 | 32 | 3.8% | 2004 | 468 | 19 | 4.1% | 2020 | 1 to 3 | 0 | 0.0% |
| 1989 | 834 | 30 | 3.6% | 2005 | 487 | 16 | 3.3% | 2021 | 79 | 1 to 3 | - |
| 1990 | 832 | 34 | 4.1% | 2006 | 454 | 17 | 3.7% | | | | |
| 1991 | 828 | 38 | 4.6% | 2007 | 455 | 11 | 2.4% | | | | |

- When fewer than four individuals make landings, figures are masked due to confidentiality.

Figure 4-1. Use of Emergency Transfer Permits in the Kuskokwim Salmon Set Gillnet Fishery, 1976-2021



- When fewer than four individuals make landings, figures are masked due to confidentiality.

Latent S04W Permits

CFEC regulations require individuals to renew their limited entry permits annually, regardless of whether they actually fish. Permits that are not used (don't record landings) in a given year are referred to herein as "latent" permits for that year.

Table 4-5 indicates the total number of issued S04W permits issued each year, the number of permits fished (with commercial landings), and the rate of permit latency. Issued permits include both interim entry and permanent permits. Note that for this table, in years when a single individual held an interim-entry permit and was also issued a permanent permit, only the permanent permit is counted. The rate of latency is depicted in Figure 4-2.

There are many reasons why an individual might not fish in any given year. This table and figure do not explain any of these reasons.

Table 4-5. Kuskokwim Salmon Gillnet Permit Latency, 1976-2021

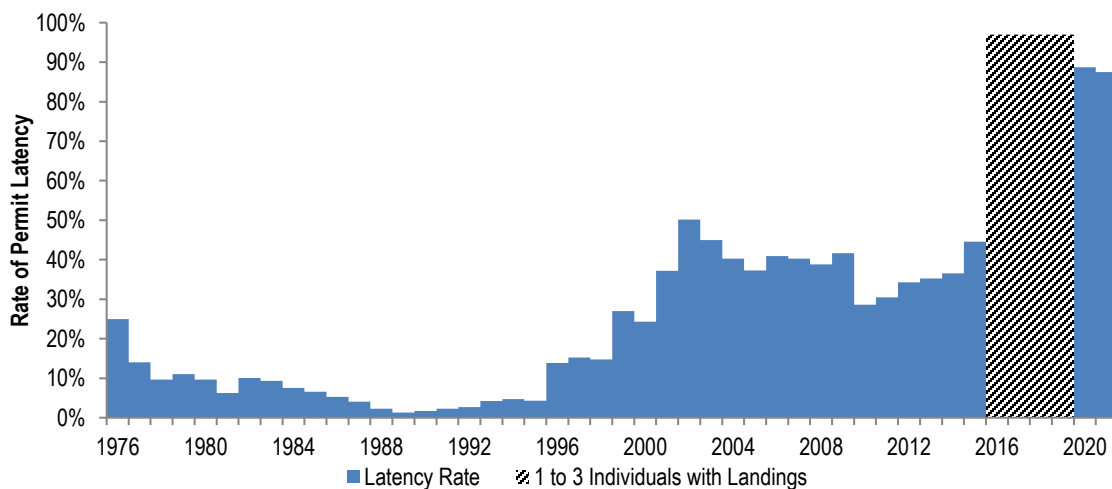
| Year | Permits | | Latency Rate |
|------|---------|--------|--------------|
| | Issued | Fished | |
| 1976 | 985 | 739 | 25.0% |
| 1977 | 836 | 719 | 14.0% |
| 1978 | 837 | 756 | 9.7% |
| 1979 | 814 | 724 | 11.1% |
| 1980 | 817 | 738 | 9.7% |
| 1981 | 829 | 777 | 6.3% |
| 1982 | 836 | 752 | 10.0% |
| 1983 | 835 | 757 | 9.3% |
| 1984 | 835 | 772 | 7.5% |
| 1985 | 834 | 779 | 6.6% |
| 1986 | 833 | 789 | 5.3% |
| 1987 | 832 | 798 | 4.1% |
| 1988 | 831 | 812 | 2.3% |
| 1989 | 831 | 820 | 1.3% |
| 1990 | 833 | 819 | 1.7% |
| 1991 | 833 | 814 | 2.3% |

| Year | Permits | | Latency Rate |
|------|---------|--------|--------------|
| | Issued | Fished | |
| 1992 | 833 | 811 | 2.6% |
| 1993 | 832 | 797 | 4.2% |
| 1994 | 832 | 793 | 4.7% |
| 1995 | 832 | 796 | 4.3% |
| 1996 | 830 | 715 | 13.9% |
| 1997 | 828 | 702 | 15.2% |
| 1998 | 828 | 706 | 14.7% |
| 1999 | 827 | 604 | 27.0% |
| 2000 | 823 | 623 | 24.3% |
| 2001 | 818 | 514 | 37.2% |
| 2002 | 817 | 407 | 50.2% |
| 2003 | 796 | 438 | 45.0% |
| 2004 | 780 | 466 | 40.3% |
| 2005 | 770 | 483 | 37.3% |
| 2006 | 765 | 452 | 40.9% |
| 2007 | 762 | 455 | 40.3% |

| Year | Permits | | Latency Rate |
|------|---------|--------|--------------|
| | Issued | Fished | |
| 2008 | 753 | 461 | 38.8% |
| 2009 | 742 | 433 | 41.6% |
| 2010 | 741 | 529 | 28.6% |
| 2011 | 732 | 509 | 30.5% |
| 2012 | 724 | 476 | 34.3% |
| 2013 | 723 | 468 | 35.3% |
| 2014 | 720 | 457 | 36.5% |
| 2015 | 713 | 395 | 44.6% |
| 2016 | 699 | 1 to 3 | confidential |
| 2017 | 699 | 1 to 3 | confidential |
| 2018 | 699 | 1 to 3 | confidential |
| 2019 | 699 | 1 to 3 | confidential |
| 2020 | 700 | 79 | 88.7% |
| 2021 | 705 | 88 | 87.5% |

- When an individual with an interim-entry permit is issued a permanent permit in the same year, only the permanent permit is counted in the above table.
- 'Permits Fished' is the number of CFEC permits that were used to record commercial landings in that year.
- When fewer than four individuals make landings, figures are masked due to confidentiality.

Figure 4-2. Kuskokwim Salmon Gillnet Permit Latency Rate, 1976-2021



New Entrants into the Kuskokwim Salmon Gillnet Fishery

New entrants are defined herein as individuals who, for the first time, record a landing on a permanent S04W permit. It is important to note that initial permit holders are not considered new entrants because they needed a proven fishing history prior to 1976 in order to become an initial permit holder of a limited entry permit. Individuals who only make landings on an emergency transfer or interim-entry permit for any given year are not considered in this table.

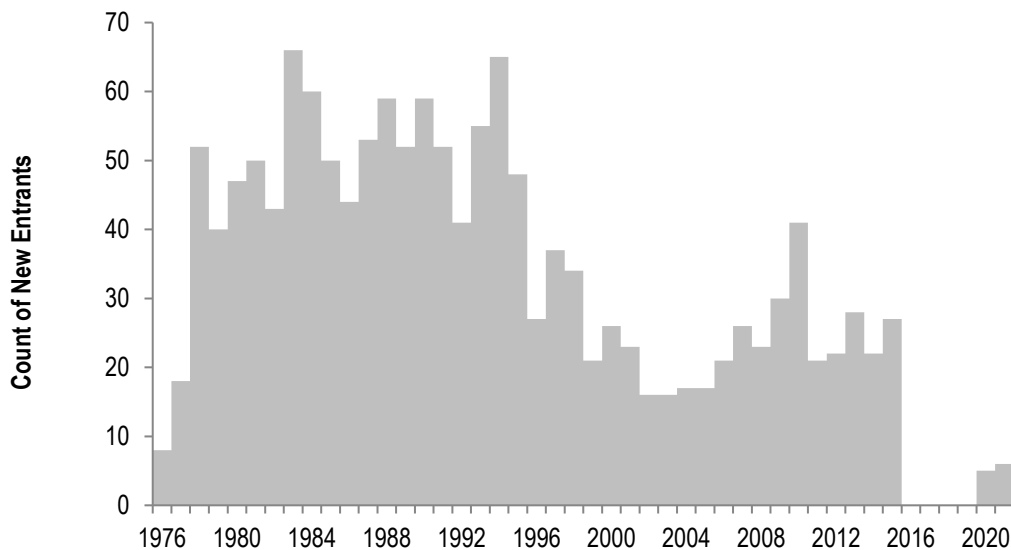
Table 4-6 and Figure 4-3 describe individuals rather than permits. An individual may hold up to two permits in this fishery, but can only fish one of them. An individual may hold one S04W permit one year, and then in subsequent years hold a different S04W permit. Likewise, individuals may enter and exit the fishery multiple times over the years. Individuals are only counted once as a new entrant and only in the year in which they made their first documented landing.

Table 4-6. New Entrants into the Kuskokwim Salmon Gillnet Fishery, 1976-2021

| Year | Individuals w/Landings | New Entrants Count | Percent | Year | Individuals w/Landings | New Entrants Count | Percent | Year | Individuals w/Landings | New Entrants Count | Percent | Year | Individuals w/Landings | New Entrants Count | Percent |
|------|------------------------|--------------------|---------|------|------------------------|--------------------|---------|------|------------------------|--------------------|---------|------|------------------------|--------------------|---------|
| 1976 | 456 | 8 | 1.8% | 1988 | 832 | 59 | 7.1% | 2000 | 624 | 26 | 4.2% | 2012 | 476 | 22 | 4.6% |
| 1977 | 662 | 18 | 2.7% | 1989 | 831 | 52 | 6.3% | 2001 | 513 | 23 | 4.5% | 2013 | 474 | 28 | 5.9% |
| 1978 | 701 | 52 | 7.4% | 1990 | 828 | 59 | 7.1% | 2002 | 407 | 16 | 3.9% | 2014 | 459 | 22 | 4.8% |
| 1979 | 699 | 40 | 5.7% | 1991 | 825 | 52 | 6.3% | 2003 | 437 | 16 | 3.7% | 2015 | 398 | 27 | 6.8% |
| 1980 | 710 | 47 | 6.6% | 1992 | 815 | 41 | 5.0% | 2004 | 467 | 17 | 3.6% | 2016 | 1 to 3 | 0 | 0.0% |
| 1981 | 741 | 50 | 6.7% | 1993 | 810 | 55 | 6.8% | 2005 | 487 | 17 | 3.5% | 2017 | 1 to 3 | 0 | 0.0% |
| 1982 | 759 | 43 | 5.7% | 1994 | 811 | 65 | 8.0% | 2006 | 454 | 21 | 4.6% | 2018 | 1 to 3 | 0 | 0.0% |
| 1983 | 759 | 66 | 8.7% | 1995 | 810 | 48 | 5.9% | 2007 | 455 | 26 | 5.7% | 2019 | 1 to 3 | 0 | 0.0% |
| 1984 | 772 | 60 | 7.8% | 1996 | 719 | 27 | 3.8% | 2008 | 462 | 23 | 5.0% | 2020 | 79 | 5 | 6.3% |
| 1985 | 786 | 50 | 6.4% | 1997 | 704 | 37 | 5.3% | 2009 | 434 | 30 | 6.9% | 2021 | 88 | 6 | 6.8% |
| 1986 | 793 | 44 | 5.5% | 1998 | 706 | 34 | 4.8% | 2010 | 531 | 41 | 7.7% | | | | |
| 1987 | 810 | 53 | 6.5% | 1999 | 604 | 21 | 3.5% | 2011 | 511 | 21 | 4.1% | | | | |

- This table excludes individuals with interim-entry and emergency transfer permits.

Figure 4-3. New Entrants into the Kuskokwim Salmon Gillnet Fishery, 1976-2021



Age of S04W Permit Holders

Table 4-7. Mean Age of Select CFEC Permit Holders and the General Alaskan Population

| Year | S04W | Statewide Salmon Set Gillnet | Statewide All Permits | Mean AK Worker Age |
|------|------|------------------------------------|--------------------------|-----------------------|
| 1980 | 37.7 | 37.9 | 38.9 | 33.4 |
| 1981 | 37.7 | 38.0 | 39.9 | 33.5 |
| 1982 | 37.7 | 38.2 | 40.0 | 33.6 |
| 1983 | 37.2 | 38.0 | 40.2 | 33.7 |
| 1984 | 37.2 | 38.2 | 40.4 | 33.8 |
| 1985 | 37.0 | 38.5 | 40.8 | 34.0 |
| 1986 | 37.6 | 38.8 | 41.0 | 34.2 |
| 1987 | 37.8 | 39.0 | 40.9 | 34.5 |
| 1988 | 38.2 | 39.3 | 41.2 | 34.9 |
| 1989 | 38.5 | 39.9 | 41.5 | 35.3 |
| 1990 | 38.1 | 40.0 | 42.0 | 35.5 |
| 1991 | 38.9 | 40.5 | 42.5 | 35.9 |
| 1992 | 39.3 | 40.8 | 42.9 | 36.2 |
| 1993 | 39.2 | 41.2 | 43.5 | 36.5 |
| 1994 | 39.3 | 41.5 | 44.0 | 36.7 |
| 1995 | 39.3 | 41.9 | 44.4 | 37.0 |
| 1996 | 39.8 | 42.3 | 44.8 | 37.2 |
| 1997 | 40.2 | 42.6 | 45.1 | 37.4 |
| 1998 | 40.4 | 43.1 | 45.6 | 37.6 |
| 1999 | 41.0 | 43.4 | 46.0 | 37.8 |
| 2000 | 41.4 | 43.7 | 46.4 | 37.9 |
| 2001 | 41.8 | 44.1 | 46.9 | 38.1 |
| 2002 | 42.3 | 44.8 | 47.4 | 38.3 |
| 2003 | 42.6 | 45.2 | 47.9 | 38.4 |
| 2004 | 42.9 | 45.4 | 48.2 | 38.6 |
| 2005 | 43.4 | 45.4 | 48.4 | 38.7 |
| 2006 | 43.6 | 45.6 | 48.7 | 38.8 |
| 2007 | 43.9 | 45.9 | 48.9 | 38.9 |
| 2008 | 44.2 | 45.9 | 49.0 | 39.0 |
| 2009 | 44.4 | 46.1 | 49.3 | 39.1 |
| 2010 | 44.5 | 46.3 | 49.5 | 39.2 |
| 2011 | 45.1 | 46.6 | 49.6 | 39.4 |
| 2012 | 45.6 | 47.0 | 49.8 | 39.4 |
| 2013 | 45.7 | 47.0 | 50.0 | 39.5 |
| 2014 | 46.1 | 47.2 | 50.2 | 39.5 |
| 2015 | 46.8 | 47.6 | 50.6 | 39.5 |
| 2016 | 47.3 | 48.0 | 50.9 | 39.6 |
| 2017 | 48.1 | 48.2 | 51.3 | 39.6 |
| 2018 | 48.1 | 48.2 | 51.3 | 40.1 |
| 2019 | 49.0 | 48.4 | 51.7 | 40.1 |
| 2020 | 49.9 | 48.8 | 51.9 | 40.1 |
| 2021 | 50.8 | 49.2 | 52.3 | 40.0 |

- Mean AK Working Age is the annual average age of all Alaskans age 16-64 as reported by the Alaska Department of Labor and Workforce Development, Research and Analysis Section.
- Age data from the CFEC permit file is as of December 31st of each year.

Table 4-7 shows the annual mean age of four different cohorts of people: 1) Kuskokwim salmon gillnet (S04W) permit holders; 2) all salmon set gillnet permit holders statewide; 3) all CFEC limited entry permit holders; and 4) the Alaskan working population.

Note that these figures include ages of permit holders for both transferable and non-transferable permits. Some individuals hold permits in more than one fishery; in these cases, the age of the permit holder is counted once for each permit that he or she holds.

The mean age of the general Alaskan working age population has increased 6.5 years between 1980 and 2021. The change in ages over the same period for all CFEC permit holders was 13.7 years, and 11.6 years for the statewide set gillnet permit holders.

For S04W permit holders, the mean age increased 13.1 years.

S04W Permit Value

Many permit transfers are non-monetary transactions (see Table 4-2). Table 4-8 considers solely arms-length market transactions where permits are sold. CFEC estimated values are expressed in both nominal and real (adjusted for inflation) terms.

Table 4-8. CFEC Estimated Value of Kuskokwim Salmon Gillnet Permits

| Year | S04W Permit Sales | Nominal Permit Value | Real Permit Value | Real Standard Deviation |
|------|-------------------|----------------------|-------------------|-------------------------|
| 1987 | 8 | \$9,600 | \$23,700 | \$1,700 |
| 1988 | 18 | \$9,700 | \$23,000 | \$2,700 |
| 1989 | 20 | \$12,000 | \$27,300 | \$5,000 |
| 1990 | 18 | \$11,900 | \$25,600 | \$3,600 |
| 1991 | 11 | \$13,700 | \$28,300 | \$3,200 |
| 1992 | 14 | \$12,600 | \$25,300 | \$3,600 |
| 1993 | 16 | \$13,100 | \$25,500 | \$3,400 |
| 1994 | 5 | \$12,500 | \$23,700 | \$600 |
| 1995 | 14 | \$11,800 | \$21,700 | \$3,200 |
| 1996 | 1 | \$11,900 | \$21,800 | \$3,700 |
| 1997 | 5 | \$10,000 | \$17,500 | \$1,100 |
| 1998 | 4 | \$9,000 | \$15,500 | \$1,700 |
| 1999 | 0 | \$9,000 | \$15,500 | \$1,700 |
| 2000 | 2 | \$8,200 | \$12,800 | \$3,700 |
| 2001 | 2 | \$7,000 | \$11,500 | \$1,700 |
| 2002 | 0 | \$7,000 | \$11,500 | \$1,700 |
| 2003 | 1 | \$5,500 | \$7,100 | \$4,100 |
| 2004 | 1 | \$5,900 | \$8,700 | \$3,300 |
| 2005 | 4 | \$5,800 | \$8,300 | \$2,900 |
| 2006 | 2 | \$6,500 | \$8,700 | \$2,800 |
| 2007 | 2 | \$6,200 | \$8,800 | \$1,800 |
| 2008 | 9 | \$5,900 | \$7,700 | \$1,300 |
| 2009 | 4 | \$5,800 | \$7,500 | \$600 |
| 2010 | 14 | \$6,300 | \$8,100 | \$1,300 |
| 2011 | 7 | \$6,900 | \$8,600 | \$1,300 |
| 2012 | 5 | \$7,100 | \$8,700 | \$1,100 |
| 2013 | 4 | \$8,700 | \$10,500 | \$1,600 |
| 2014 | 9 | \$8,300 | \$9,900 | \$1,300 |
| 2015 | 1 | \$7,200 | \$8,600 | \$300 |
| 2016 | 0 | \$7,200 | \$8,600 | \$300 |
| 2017 | 0 | \$7,200 | \$8,600 | \$300 |
| 2018 | 0 | \$7,200 | \$8,600 | \$300 |
| 2019 | 1 | \$7,000 | \$7,500 | \$900 |
| 2020 | 0 | \$7,000 | \$7,500 | \$900 |
| 2021 | 2 | \$6,800 | \$7,300 | \$1,000 |

- Permit values represent averages of all arms-length sale transactions over the year. Beginning in 1991, additional data from recent months in the preceding year may be included until at least four observations can be averaged.
- Real permit values were calculated using the 2022 Consumer Price Index from the U.S. Bureau of Labor Statistics.

Participation and Earnings

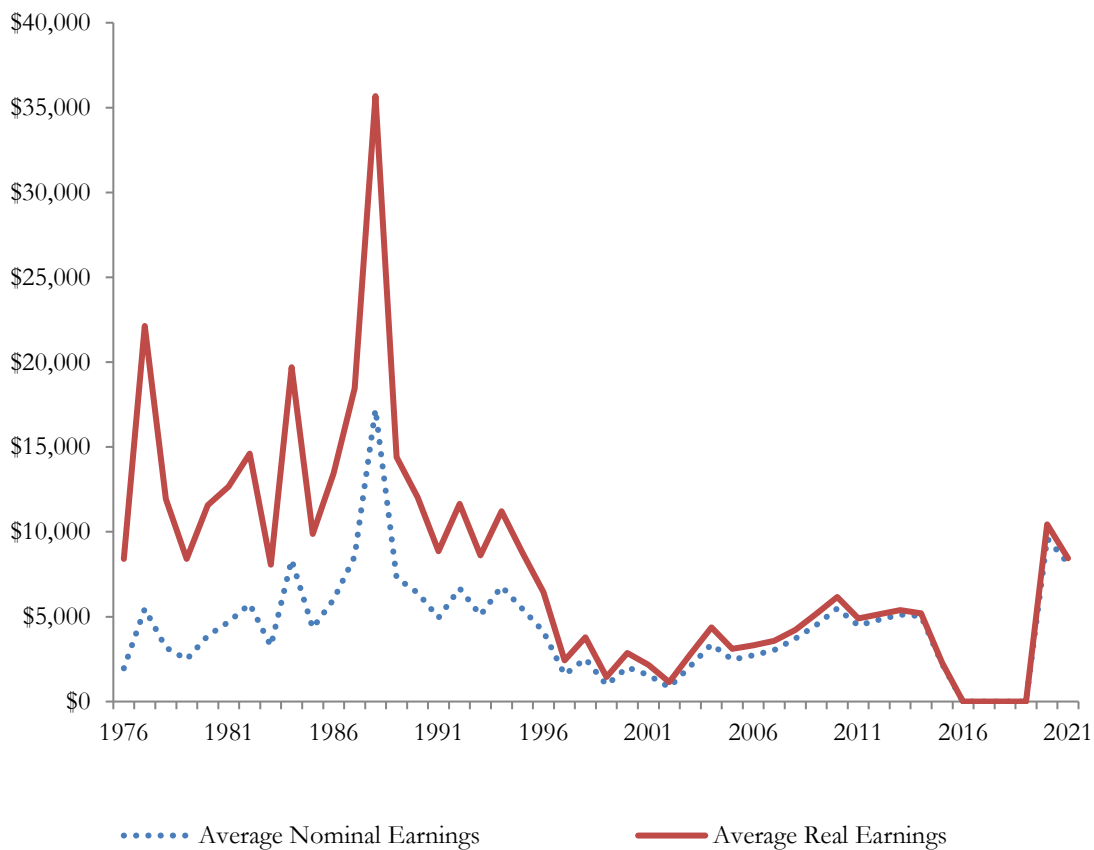
Earnings are estimated from weighted average ex-vessel prices, and as noted earlier, come primarily from the ADF&G Commercial Operators Annual Report and fish ticket values. Earnings shown in Figure 4-4 reflect both nominal and real dollars using the 2022 Consumer Price Index from the U.S. Bureau of Labor Statistics.

Permit counts include interim-entry permits and permanent permits. Interim-entry permits are issued to individuals during the period when their applications for permanent permits are in adjudication. The last year an interim-entry permit was held in the Kuskokwim salmon gillnet fishery was in 2004. Some individuals made landings on both an interim-entry permit and subsequently on their newly issued permanent permit in the same year; for these instances, only the permanent permit is counted in this report.

Table 4-9 reports the number of permits issued and estimated gross earnings in the Kuskokwim salmon gillnet fishery from 1976 to 2021. Note that the figures by permit or vessel in this table span the entire year, regardless of who held the permit or however many times the permit was transferred.

Table 4-10 reports the number of permit holders (people) and estimated real (inflation adjusted) gross earnings by each resident type.

Figure 4-4. Estimated Nominal and Real Average Gross Earnings Per Kuskokwim Salmon Set Gillnet Permit



- Real earnings are adjusted for inflation using the 2022 U.S. Bureau of Labor Statistics Consumer Price Index.

Table 4-9. Estimated Total Gross Earnings (Real and Nominal) for the Kuskokwim Salmon Gillnet Fishery, With Average Gross (Real) Earnings by Permit, 1976-2021

| Year | Permits Issued | Total Gross Earnings | | Permits With Landings | Average Real Earnings |
|------|----------------|----------------------|--------------|-----------------------|-----------------------|
| | | Nominal | Real | | |
| 1976 | 985 | \$1,442,834 | \$7,128,128 | 739 | \$9,646 |
| 1977 | 836 | \$3,934,002 | \$18,248,922 | 719 | \$25,381 |
| 1978 | 837 | \$2,399,850 | \$10,343,071 | 756 | \$13,681 |
| 1979 | 814 | \$1,801,487 | \$6,978,773 | 724 | \$9,639 |
| 1980 | 817 | \$2,870,122 | \$9,791,837 | 738 | \$13,268 |
| 1981 | 829 | \$3,651,410 | \$11,290,476 | 777 | \$14,531 |
| 1982 | 836 | \$4,324,599 | \$12,599,508 | 752 | \$16,755 |
| 1983 | 835 | \$2,483,517 | \$7,010,401 | 757 | \$9,261 |
| 1984 | 835 | \$6,445,438 | \$17,443,819 | 772 | \$22,596 |
| 1985 | 834 | \$3,377,547 | \$8,827,925 | 779 | \$11,332 |
| 1986 | 833 | \$4,742,631 | \$12,164,962 | 789 | \$15,418 |
| 1987 | 832 | \$6,825,918 | \$16,889,710 | 798 | \$21,165 |
| 1988 | 831 | \$13,981,321 | \$33,239,267 | 812 | \$40,935 |
| 1989 | 831 | \$5,978,036 | \$13,557,780 | 820 | \$16,534 |
| 1990 | 833 | \$5,248,496 | \$11,293,610 | 819 | \$13,790 |
| 1991 | 833 | \$4,010,131 | \$8,278,336 | 814 | \$10,170 |
| 1992 | 833 | \$5,405,156 | \$10,830,137 | 811 | \$13,354 |
| 1993 | 832 | \$4,046,981 | \$7,876,325 | 797 | \$9,882 |
| 1994 | 832 | \$5,378,933 | \$10,202,571 | 793 | \$12,866 |
| 1995 | 832 | \$4,348,321 | \$8,022,674 | 796 | \$10,079 |
| 1996 | 830 | \$2,952,811 | \$5,292,808 | 715 | \$7,403 |
| 1997 | 828 | \$1,114,010 | \$1,951,209 | 702 | \$2,780 |
| 1998 | 828 | \$1,779,047 | \$3,068,404 | 706 | \$4,346 |
| 1999 | 827 | \$594,630 | \$1,003,627 | 604 | \$1,662 |
| 2000 | 823 | \$1,255,652 | \$2,050,081 | 623 | \$3,291 |
| 2001 | 818 | \$803,432 | \$1,275,696 | 514 | \$2,482 |
| 2002 | 817 | \$343,637 | \$537,111 | 407 | \$1,320 |
| 2003 | 796 | \$913,719 | \$1,396,459 | 438 | \$3,188 |
| 2004 | 780 | \$1,566,933 | \$2,332,340 | 466 | \$5,005 |
| 2005 | 770 | \$1,192,267 | \$1,716,425 | 483 | \$3,554 |
| 2006 | 765 | \$1,233,758 | \$1,720,649 | 452 | \$3,807 |
| 2007 | 762 | \$1,377,484 | \$1,867,813 | 455 | \$4,105 |
| 2008 | 753 | \$1,711,421 | \$2,234,821 | 461 | \$4,848 |
| 2009 | 742 | \$1,953,389 | \$2,559,892 | 433 | \$5,912 |
| 2010 | 741 | \$2,901,852 | \$3,741,478 | 529 | \$7,073 |
| 2011 | 732 | \$2,285,642 | \$2,856,788 | 509 | \$5,613 |
| 2012 | 724 | \$2,297,121 | \$2,812,927 | 476 | \$5,910 |
| 2013 | 723 | \$2,398,376 | \$2,894,519 | 468 | \$6,185 |
| 2014 | 720 | \$2,296,568 | \$2,727,405 | 457 | \$5,968 |
| 2015 | 713 | \$868,016 | \$1,029,635 | 395 | \$2,607 |
| 2016 | 699 | confidential | confidential | 1 to 3 | confidential |
| 2017 | 699 | confidential | confidential | 1 to 3 | confidential |
| 2018 | 699 | confidential | confidential | 1 to 3 | confidential |
| 2019 | 699 | confidential | confidential | 1 to 3 | confidential |
| 2020 | 700 | \$758,806 | \$824,295 | 79 | \$10,434 |
| 2021 | 705 | \$715,929 | \$742,821 | 88 | \$8,441 |

- Adjusted for inflation to 2022 dollars using U.S. Bureau of Labor Statistics Consumer Price Index.
- Counts will differ from CFEC on-line Basic Information Tables where the on-line data does not account for the combination of interim-entry permits that were issued as permanent permits in the same year.
- When fewer than four individuals make landings, values are masked due to confidentiality.

Table 4-10. Estimated Real Gross Earnings for Permit Holders in the Kuskokwim Salmon Gillnet Fishery by Resident Type, 1976-2021

| Year | Local Gross Earnings | | | Nonlocal Gross Earnings | | | Nonresident Gross Earnings | | | Total Gross Earnings | | |
|------|-------------------------|--------------|--------------|----------------------------|--------------|--------------|-------------------------------|--------------|--------------|-------------------------|--------------|--------------|
| | People | Average | Total | People | Average | Total | People | Average | Total | People | Average | Total |
| 1976 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 739 | \$9,646 | \$7,128,128 |
| 1977 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 721 | \$25,311 | \$18,248,922 |
| 1978 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 764 | \$13,538 | \$10,343,071 |
| 1979 | 720 | \$9,649 | \$6,946,952 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 728 | \$9,586 | \$6,978,773 |
| 1980 | 736 | \$13,247 | \$9,750,150 | 6 | \$6,948 | \$41,687 | 0 | - | - | 742 | \$13,197 | \$9,791,837 |
| 1981 | 777 | \$14,477 | \$11,248,727 | 5 | \$8,350 | \$41,749 | 0 | - | - | 782 | \$14,438 | \$11,290,476 |
| 1982 | 755 | \$16,529 | \$12,479,195 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 764 | \$16,492 | \$12,599,508 |
| 1983 | 754 | \$9,234 | \$6,962,231 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 763 | \$9,188 | \$7,010,401 |
| 1984 | 767 | \$22,504 | \$17,260,690 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 776 | \$22,479 | \$17,443,819 |
| 1985 | 778 | \$11,220 | \$8,729,466 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 789 | \$11,189 | \$8,827,925 |
| 1986 | 788 | \$15,291 | \$12,049,233 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 797 | \$15,263 | \$12,164,962 |
| 1987 | 808 | \$20,807 | \$16,812,350 | 5 | \$15,472 | \$77,360 | 0 | - | - | 813 | \$20,775 | \$16,889,710 |
| 1988 | 825 | \$39,921 | \$32,934,462 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 835 | \$39,802 | \$33,235,070 |
| 1989 | 821 | \$16,336 | \$13,411,451 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 834 | \$16,256 | \$13,557,780 |
| 1990 | 816 | \$13,688 | \$11,169,532 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 832 | \$13,574 | \$11,293,610 |
| 1991 | 808 | \$10,077 | \$8,141,988 | 20 | \$6,817 | \$136,348 | 0 | - | - | 828 | \$9,998 | \$8,278,336 |
| 1992 | 803 | \$13,317 | \$10,693,349 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 818 | \$13,240 | \$10,830,137 |
| 1993 | 796 | \$9,764 | \$7,772,145 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 813 | \$9,688 | \$7,876,325 |
| 1994 | 799 | \$12,630 | \$10,091,421 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 813 | \$12,549 | \$10,202,571 |
| 1995 | 794 | \$9,944 | \$7,895,731 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 812 | \$9,880 | \$8,022,674 |
| 1996 | 713 | \$7,353 | \$5,242,659 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 721 | \$7,341 | \$5,292,808 |
| 1997 | 701 | \$2,775 | \$1,945,449 | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 705 | \$2,768 | \$1,951,209 |
| 1998 | 704 | \$4,343 | \$3,057,509 | 4 | \$2,724 | \$10,894 | 0 | - | - | 708 | \$4,334 | \$3,068,404 |
| 1999 | 602 | \$1,655 | \$996,428 | 4 | \$1,800 | \$7,199 | 0 | - | - | 606 | \$1,656 | \$1,003,627 |
| 2000 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 626 | \$3,275 | \$2,050,081 |
| 2001 | 508 | \$2,473 | \$1,256,430 | 7 | \$2,752 | \$19,265 | 0 | - | - | 515 | \$2,477 | \$1,275,696 |
| 2002 | 403 | \$1,318 | \$531,247 | 5 | \$1,173 | \$5,864 | 0 | - | - | 408 | \$1,316 | \$537,111 |
| 2003 | 434 | \$3,191 | \$1,385,096 | 4 | \$2,841 | \$11,363 | 0 | - | - | 438 | \$3,188 | \$1,396,459 |
| 2004 | 464 | \$5,002 | \$2,320,712 | 4 | \$2,907 | \$11,628 | 0 | - | - | 468 | \$4,984 | \$2,332,340 |
| 2005 | 481 | \$3,518 | \$1,692,220 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 487 | \$3,524 | \$1,716,425 |
| 2006 | 449 | \$3,796 | \$1,704,276 | 5 | \$3,275 | \$16,373 | 0 | - | - | 454 | \$3,790 | \$1,720,649 |
| 2007 | 449 | \$4,093 | \$1,837,903 | 6 | \$4,985 | \$29,910 | 0 | - | - | 455 | \$4,105 | \$1,867,813 |
| 2008 | 453 | \$4,852 | \$2,198,055 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 462 | \$4,837 | \$2,234,821 |
| 2009 | 426 | \$5,915 | \$2,519,879 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 434 | \$5,898 | \$2,559,892 |
| 2010 | 525 | \$6,982 | \$3,665,532 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 531 | \$7,046 | \$3,741,478 |
| 2011 | 503 | \$5,595 | \$2,814,164 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 511 | \$5,591 | \$2,856,788 |
| 2012 | 467 | \$5,936 | \$2,772,166 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 476 | \$5,910 | \$2,812,927 |
| 2013 | 469 | \$6,114 | \$2,867,377 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 474 | \$6,107 | \$2,894,519 |
| 2014 | 455 | \$5,953 | \$2,708,807 | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 459 | \$5,942 | \$2,727,405 |
| 2015 | 394 | \$2,603 | \$1,025,535 | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 398 | \$2,587 | \$1,029,635 |
| 2016 | 1 to 3 | confidential | confidential | 0 | - | - | 0 | - | - | 1 to 3 | confidential | confidential |
| 2017 | 1 to 3 | confidential | confidential | 0 | - | - | 0 | - | - | 1 to 3 | confidential | confidential |
| 2018 | 1 to 3 | confidential | confidential | 0 | - | - | 0 | - | - | 1 to 3 | confidential | confidential |
| 2019 | 1 to 3 | confidential | confidential | 0 | - | - | 0 | - | - | 1 to 3 | confidential | confidential |
| 2020 | 79 | \$10,434 | \$824,295 | 0 | - | - | 0 | - | - | 79 | \$10,434 | \$824,295 |
| 2021 | 88 | \$8,441 | \$742,821 | 0 | - | - | 0 | - | - | 88 | \$8,441 | \$742,821 |

- Adjusted for inflation to 2022 dollars using U.S. Bureau of Labor Statistics Consumer Price Index.
- When fewer than four individuals in a cohort make landings, counts of participation and earnings are masked for both that cohort and at least one other cohort that year.
- Counts will differ from CFEC on-line Basic Information Tables where the on-line data does not account for the combination of interim-entry permits that were issued as permanent permits in the same year.
- Note that these counts are for individuals, not permits.

Chapter 5 Norton Sound Salmon Gillnet Fishery

S04Z Permit Holdings

Limited entry permits for the Norton Sound salmon gillnet fishery (S04Z permits) were issued starting in 1976. CFEC has issued 204 S04Z permits. Table 5-1 indicates the initial distribution and historical net changes in permit holdings for the fishery. Of this total, Alaska Locals received 98.5% (201/204) of the permits, and Nonlocal Alaskans received the remaining 1.5% (3/204) permits. Every S04Z permit was issued as a transferable permit.

Table 5-1. Initial Issuance and Year-end 2021 Totals of Norton Sound Salmon Gillnet Permits, With Net Changes Due to Permit Transfers, Migrations, and Cancellations, by Resident Type

| INITIAL ISSUE | | | TRANSFERS | | MIGRATIONS | | CANCELLED | | 2021 YEAR-END | |
|---------------|-------|---------------|-----------|-----------------------------|------------|-----------------------------|------------|-----------------------------|---------------|---------------|
| Residency | Total | Percent | Change | Percent Change from Initial | Change | Percent Change from Initial | Change | Percent Change from Initial | Total | Percent |
| Local | 202 | 98.5% | 22 | 11.4% | -39 | -19.3% | -16 | -7.9% | 169 | 92.3% |
| Nonlocal | 3 | 1.5% | -24 | 800.0% | 40 | 1333.3% | -6 | -200.0% | 13 | 7.1% |
| Nonresident | 0 | 0.0% | 2 | . | -1 | . | 0 | - | 1 | 0.5% |
| Total | | 100.0% | 0 | 0.0% | 0 | 0.0% | -22 | -10.7% | 183 | 100.0% |

The number of permits held by each resident type can change for three reasons: permits can be transferred to other resident types (transfer); permit holders can move from one location to another (migration); or permits can be cancelled, such as when a permit holder does not pay the renewal fee for two consecutive years. This table indicates the extent to which these factors have contributed to net changes in permit holdings in this fishery.

Transfers of S04Z Permits

Under the Limited Entry Act's terms of free transferability, permits may be sold, traded, given away, or inherited. CFEC requires the completion of a survey with each transfer.⁹ The surveys provide information such as transfer acquisition methods, the relationship between individuals in the transaction, and the sale amount for instances when the permit is sold.

Table 5-2. Transfer Acquisition Methods for Norton Sound Salmon Gillnet Permits, 1980-2021

| Acquisition Method | Norton Sound Salmon Gillnet | | Statewide Salmon Set Gillnet | | All Fisheries Statewide | |
|--------------------|-----------------------------|---------|------------------------------|---------|-------------------------|---------|
| | Count | Percent | Count | Percent | Count | Percent |
| Gift | 226 | 43.0% | 6,717 | 51.0% | 13,403 | 32.5% |
| Sale | 217 | 41.3% | 5,069 | 38.5% | 24,174 | 58.6% |
| Trade | 3 | 0.6% | 97 | 0.7% | 531 | 1.3% |
| Other | 80 | 15.2% | 1,282 | 9.7% | 3,134 | 7.6% |
| Total | 526 | | 13,165 | | 41,242 | |

Table 5-2 compares and contrasts the transfer acquisition methods for the S04Z permits, all statewide salmon set gillnet permits, and all limited entry permits between 1980 and 2021. A little under half of all S04Z transfers were gifts (43.0% or 226/526), just over two fifths were sales (41.3% or 217/526), and a smaller percentage were trades (0.6% or 3/526) or other (15.2% or 80/526). The annual acquisition methods for S04Z permits can be viewed in a different publication.¹⁰

Table 5-3. Relationships of Transferor to Transfer Recipients for Norton Sound Salmon Gillnet Permits, 1980-2021

| Relationship | Norton Sound Salmon Gillnet | | Statewide Salmon Set Gillnet | | All Fisheries Statewide | |
|----------------------------|-----------------------------|---------|------------------------------|---------|-------------------------|---------|
| | Count | Percent | Count | Percent | Count | Percent |
| Business Partner/Friend | 76 | 14.4% | 2,632 | 20.0% | 7,713 | 18.7% |
| Member of Immediate Family | 313 | 59.5% | 6,331 | 48.1% | 13,850 | 33.6% |
| Other Relative | 36 | 6.8% | 914 | 6.9% | 1,846 | 4.5% |
| Other | 101 | 19.2% | 3,288 | 25.0% | 17,833 | 43.2% |
| Total | 526 | | 13,165 | | 41,242 | |

Table 5-3 shows the relationships between the transferors and transfer recipients for S04Z permits, and compares S04Z permit transfers with all statewide salmon set gillnet permits, and all limited entry permits from 1980 to 2021. Transfers within the family, both between immediate family members and other relatives, total 66.3% (349/526) of all permit transfers for S04Z permits compared 55.0% (7,245/13,165) for all salmon set gillnet permits statewide, and 38.1% (15,969/41,242) for all limited entry permits statewide.

⁹ CFEC implemented the transfer survey in 1980.

¹⁰ See *Changes in the Distribution of Alaska's Commercial Fisheries Entry Permits, 1975-2021*, CFEC Report No. 22-2N.

Emergency Transfers of S04Z Permits

Commercial landings can be made with either permanently-held permits or with permits held temporarily through emergency transfers. Emergency transfers (ET) of permits are granted on permanent permits if illness, disability, death, required military or government service, or other unavoidable hardship of a temporary, unexpected, and unforeseen nature prevents the permanent permit holder from participating in the fishery. “Hardship” does not include the results of a permit holder’s own economic decisions, or the results of economic, biological or regulatory variables which are normally part of the risk of doing business as a fisherman. At the end of the year, ET permits automatically revert back to the permanent permit holder.

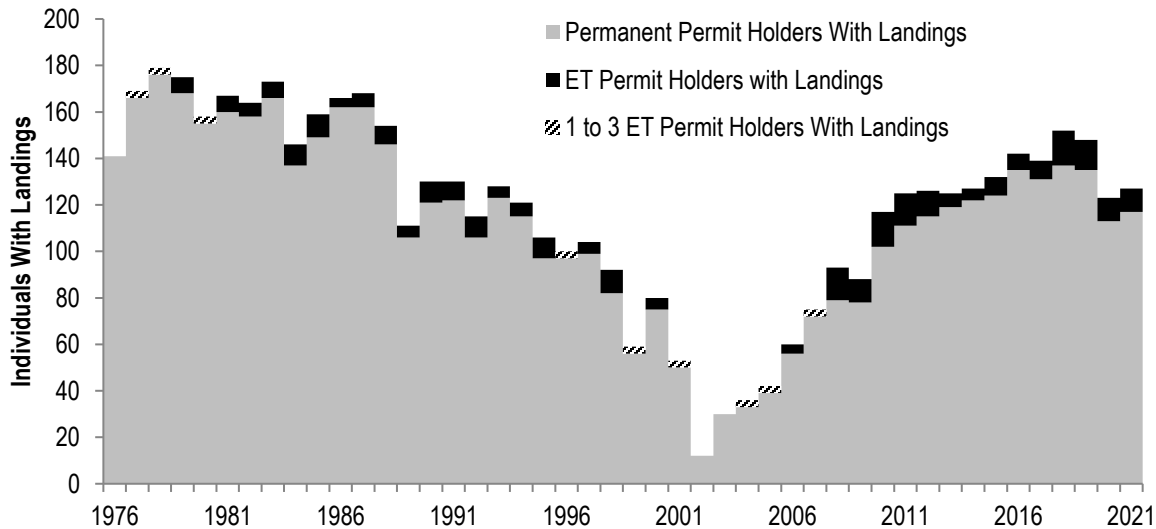
Table 5-4 and Figure 5-1 show the total number of individuals who recorded landings each year, and of that group, the number of individuals who made landings with ET permits. Some individuals who made landings with ET permits also made landings with permanent permits in the same year.

Table 5-4. Use of Emergency Transfer Permits in the Norton Sound Salmon Gillnet Fishery, 1976-2021

| Year | Individuals With Landings | ET Permit Holders with Landings | ET Rate | Year | Individuals with Landings | ET Permit Holders With Landings | ET Rate | Year | Individuals with Landings | ET Permit Holders with Landings | ET Rate |
|------|---------------------------|---------------------------------|---------|------|---------------------------|---------------------------------|---------|------|---------------------------|---------------------------------|---------|
| 1976 | 141 | 0 | 0.0% | 1992 | 115 | 9 | 7.8% | 2008 | 93 | 14 | 15.1% |
| 1977 | 167 | 1 to 3 | - | 1993 | 128 | 5 | 3.9% | 2009 | 88 | 10 | 11.4% |
| 1978 | 177 | 1 to 3 | - | 1994 | 121 | 6 | 5.0% | 2010 | 117 | 15 | 12.8% |
| 1979 | 175 | 7 | 4.0% | 1995 | 106 | 9 | 8.5% | 2011 | 125 | 14 | 11.2% |
| 1980 | 157 | 1 to 3 | - | 1996 | 100 | 1 to 3 | - | 2012 | 126 | 11 | 8.7% |
| 1981 | 167 | 7 | 4.2% | 1997 | 104 | 5 | 4.8% | 2013 | 125 | 6 | 4.8% |
| 1982 | 164 | 6 | 3.7% | 1998 | 92 | 10 | 10.9% | 2014 | 127 | 5 | 3.9% |
| 1983 | 173 | 7 | 4.0% | 1999 | 58 | 1 to 3 | - | 2015 | 132 | 8 | 6.1% |
| 1984 | 146 | 9 | 6.2% | 2000 | 80 | 5 | 6.3% | 2016 | 142 | 7 | 4.9% |
| 1985 | 159 | 10 | 6.3% | 2001 | 51 | 1 to 3 | - | 2017 | 139 | 8 | 5.8% |
| 1986 | 166 | 4 | 2.4% | 2002 | 12 | 0 | 0.0% | 2018 | 152 | 15 | 9.9% |
| 1987 | 168 | 6 | 3.6% | 2003 | 30 | 0 | 0.0% | 2019 | 148 | 13 | 8.8% |
| 1988 | 154 | 8 | 5.2% | 2004 | 36 | 1 to 3 | - | 2020 | 123 | 10 | 8.1% |
| 1989 | 111 | 5 | 4.5% | 2005 | 40 | 1 to 3 | - | 2021 | 127 | 10 | 7.9% |
| 1990 | 130 | 9 | 6.9% | 2006 | 60 | 4 | 6.7% | | | | |
| 1991 | 130 | 8 | 6.2% | 2007 | 75 | 1 to 3 | - | | | | |

- When fewer than four individuals make landings, figures are masked due to confidentiality.

Figure 5-1. Use of Emergency Transfer Permits in the Norton Sound Salmon Set Gillnet Fishery, 1976-2021



Latent S04Z Permits

CFEC regulations require individuals to renew their limited entry permits annually, regardless of whether they actually fish. Permits that are not used (don't record landings) in a given year are referred to herein as "latent" permits for that year.

Table 5-5 indicates the total number of issued S04Z permits issued each year, the number of permits fished (with commercial landings), and the rate of permit latency. Issued permits include both interim entry and permanent permits. Note that for this table, in years when a single individual held an interim-entry permit and was also issued a permanent permit, only the permanent permit is counted. The rate of latency is depicted in Figure 5-2.

There are many reasons why an individual might not fish in any given year. This table and figure do not explain any of these reasons.

Table 5-5. Norton Sound Salmon Gillnet Permit Latency, 1976-2021

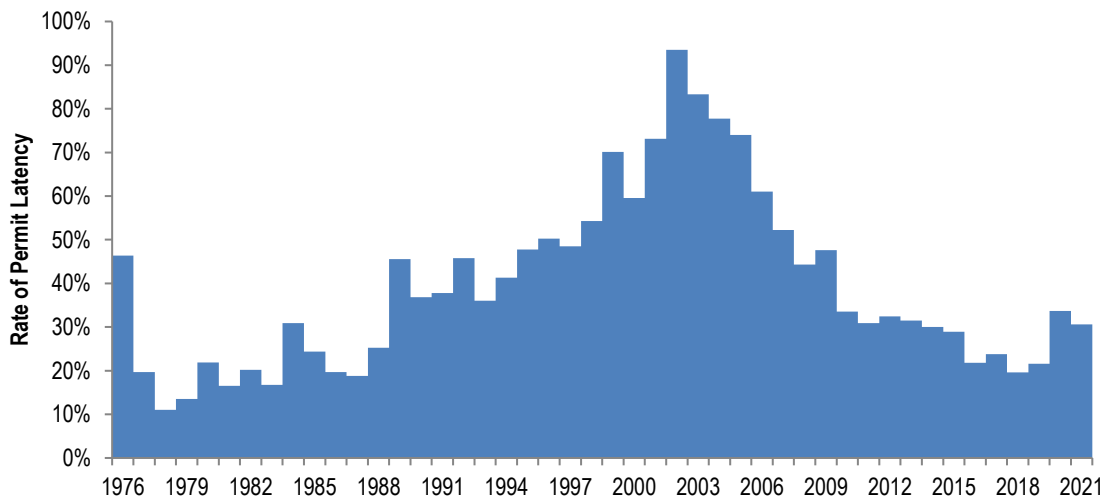
| Year | Permits | | Latency Rate |
|------|---------|--------|--------------|
| | Issued | Fished | |
| 1976 | 263 | 141 | 46.4% |
| 1977 | 208 | 167 | 19.7% |
| 1978 | 199 | 177 | 11.1% |
| 1979 | 200 | 173 | 13.5% |
| 1980 | 201 | 157 | 21.9% |
| 1981 | 200 | 167 | 16.5% |
| 1982 | 203 | 162 | 20.2% |
| 1983 | 203 | 169 | 16.7% |
| 1984 | 204 | 141 | 30.9% |
| 1985 | 205 | 155 | 24.4% |
| 1986 | 203 | 163 | 19.7% |
| 1987 | 202 | 164 | 18.8% |
| 1988 | 202 | 151 | 25.2% |
| 1989 | 202 | 110 | 45.5% |
| 1990 | 201 | 127 | 36.8% |
| 1991 | 201 | 125 | 37.8% |

| Year | Permits | | Latency Rate |
|------|---------|--------|--------------|
| | Issued | Fished | |
| 1992 | 201 | 109 | 45.8% |
| 1993 | 200 | 128 | 36.0% |
| 1994 | 201 | 118 | 41.3% |
| 1995 | 199 | 104 | 47.7% |
| 1996 | 199 | 99 | 50.3% |
| 1997 | 198 | 102 | 48.5% |
| 1998 | 197 | 90 | 54.3% |
| 1999 | 194 | 58 | 70.1% |
| 2000 | 193 | 78 | 59.6% |
| 2001 | 190 | 51 | 73.2% |
| 2002 | 185 | 12 | 93.5% |
| 2003 | 180 | 30 | 83.3% |
| 2004 | 162 | 36 | 77.8% |
| 2005 | 154 | 40 | 74.0% |
| 2006 | 154 | 60 | 61.0% |
| 2007 | 155 | 74 | 52.3% |

| Year | Permits | | Latency Rate |
|------|---------|--------|--------------|
| | Issued | Fished | |
| 2008 | 167 | 93 | 44.3% |
| 2009 | 168 | 88 | 47.6% |
| 2010 | 173 | 115 | 33.5% |
| 2011 | 178 | 123 | 30.9% |
| 2012 | 182 | 123 | 32.4% |
| 2013 | 181 | 124 | 31.5% |
| 2014 | 180 | 126 | 30.0% |
| 2015 | 180 | 128 | 28.9% |
| 2016 | 179 | 140 | 21.8% |
| 2017 | 181 | 138 | 23.8% |
| 2018 | 184 | 148 | 19.6% |
| 2019 | 185 | 145 | 21.6% |
| 2020 | 184 | 122 | 33.7% |
| 2021 | 183 | 127 | 30.6% |

- When an individual with an interim-entry permit is issued a permanent permit in the same year, only the permanent permit is counted in the above table.
- 'Permits Fished' is the number of CFEC permits that were used to record commercial landings in that year.

Figure 5-2. Norton Sound Salmon Gillnet Permit Latency Rate, 1976-2021



New Entrants into the Norton Sound Salmon Gillnet Fishery

New entrants are defined herein as individuals who, for the first time, record a landing on a permanent S04Z permit. It is important to note that initial permit holders are not considered new entrants because they needed a proven fishing history prior to 1976 in order to become an initial permit holder of a limited entry permit. Individuals who only make landings on an emergency transfer or interim-entry permit for any given year are not considered in this table.

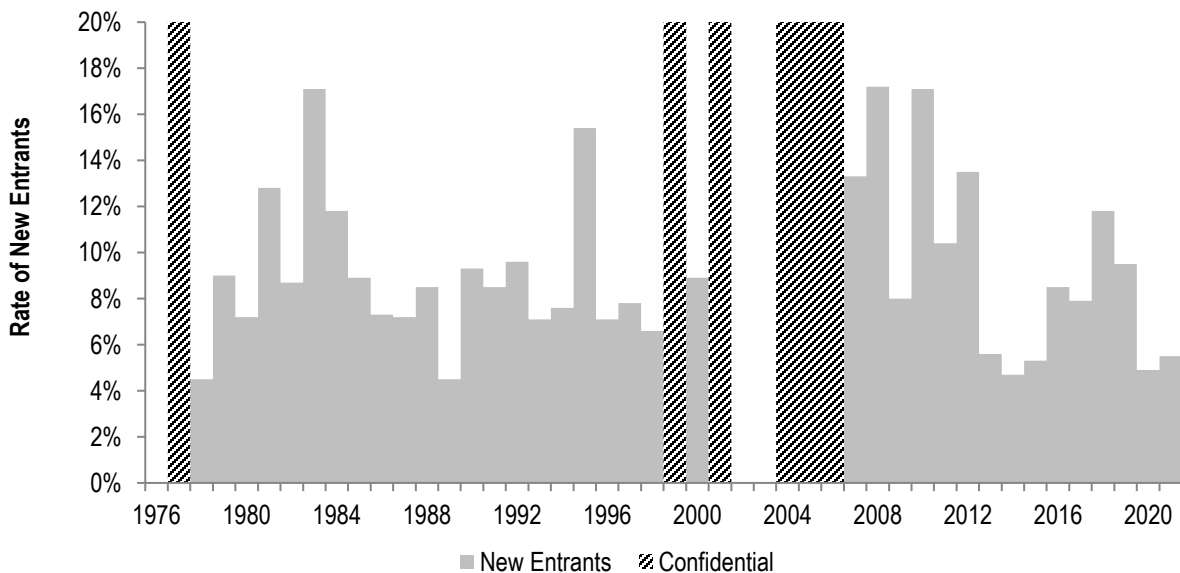
Table 5-6 and Figure 5-3 describe individuals rather than permits. An individual may hold up to two permits in this fishery, but can only fish one of them. An individual may hold one S04Z permit one year, and then in subsequent years hold a different S04Z permit. Likewise, individuals may enter and exit the fishery multiple times over the years. Individuals are only counted once as a new entrant and only in the year in which they made their first documented landing.

Table 5-6. New Entrants into the Norton Sound Salmon Gillnet Fishery, 1976-2021

| Year | Individuals w/Landings | New Entrants Count | Percent | Year | Individuals w/Landings | New Entrants Count | Percent | Year | Individuals w/Landings | New Entrants Count | Percent | Year | Individuals w/Landings | New Entrants Count | Percent |
|------|------------------------|--------------------|---------|------|------------------------|--------------------|---------|------|------------------------|--------------------|---------|------|------------------------|--------------------|---------|
| 1976 | 78 | 0 | 0.0% | 1988 | 153 | 13 | 8.5% | 2000 | 79 | 7 | 8.9% | 2012 | 126 | 17 | 13.5% |
| 1977 | 140 | 1 to 3 | - | 1989 | 110 | 5 | 4.5% | 2001 | 51 | 1 to 3 | - | 2013 | 125 | 7 | 5.6% |
| 1978 | 155 | 7 | 4.5% | 1990 | 129 | 12 | 9.3% | 2002 | 11 | 0 | 0.0% | 2014 | 127 | 6 | 4.7% |
| 1979 | 155 | 14 | 9.0% | 1991 | 129 | 11 | 8.5% | 2003 | 29 | 0 | 0.0% | 2015 | 132 | 7 | 5.3% |
| 1980 | 138 | 10 | 7.2% | 1992 | 114 | 11 | 9.6% | 2004 | 35 | 1 to 3 | - | 2016 | 142 | 12 | 8.5% |
| 1981 | 148 | 19 | 12.8% | 1993 | 127 | 9 | 7.1% | 2005 | 40 | 1 to 3 | - | 2017 | 139 | 11 | 7.9% |
| 1982 | 161 | 14 | 8.7% | 1994 | 119 | 9 | 7.6% | 2006 | 60 | 1 to 3 | - | 2018 | 152 | 18 | 11.8% |
| 1983 | 170 | 29 | 17.1% | 1995 | 104 | 16 | 15.4% | 2007 | 75 | 10 | 13.3% | 2019 | 148 | 14 | 9.5% |
| 1984 | 144 | 17 | 11.8% | 1996 | 98 | 7 | 7.1% | 2008 | 93 | 16 | 17.2% | 2020 | 123 | 6 | 4.9% |
| 1985 | 157 | 14 | 8.9% | 1997 | 103 | 8 | 7.8% | 2009 | 88 | 7 | 8.0% | 2021 | 127 | 7 | 5.5% |
| 1986 | 164 | 12 | 7.3% | 1998 | 91 | 6 | 6.6% | 2010 | 117 | 20 | 17.1% | | | | |
| 1987 | 167 | 12 | 7.2% | 1999 | 57 | 1 to 3 | - | 2011 | 125 | 13 | 10.4% | | | | |

- This table excludes individuals with interim-entry and emergency transfer permits.
- When fewer than four individuals make landings, figures are masked due to confidentiality.

Figure 5-3. New Entrants into the Norton Sound Salmon Gillnet Fishery, 1976-2021



Age of S04Z Permit Holders

Table 5-7. Mean Age of Select CFEC Permit Holders and the General Alaskan Population

| Year | S04Z | Statewide Salmon Set Gillnet | Statewide All Permits | Mean AK Worker Age |
|------|------|------------------------------|-----------------------|--------------------|
| 1980 | 42.8 | 37.9 | 38.9 | 33.4 |
| 1981 | 42.9 | 38.0 | 39.9 | 33.5 |
| 1982 | 42.7 | 38.2 | 40.0 | 33.6 |
| 1983 | 42.1 | 38.0 | 40.2 | 33.7 |
| 1984 | 42.0 | 38.2 | 40.4 | 33.8 |
| 1985 | 42.9 | 38.5 | 40.8 | 34.0 |
| 1986 | 41.6 | 38.8 | 41.0 | 34.2 |
| 1987 | 42.2 | 39.0 | 40.9 | 34.5 |
| 1988 | 42.8 | 39.3 | 41.2 | 34.9 |
| 1989 | 43.5 | 39.9 | 41.5 | 35.3 |
| 1990 | 44.0 | 40.0 | 42.0 | 35.5 |
| 1991 | 43.9 | 40.5 | 42.5 | 35.9 |
| 1992 | 44.1 | 40.8 | 42.9 | 36.2 |
| 1993 | 43.3 | 41.2 | 43.5 | 36.5 |
| 1994 | 43.4 | 41.5 | 44.0 | 36.7 |
| 1995 | 42.4 | 41.9 | 44.4 | 37.0 |
| 1996 | 42.2 | 42.3 | 44.8 | 37.2 |
| 1997 | 43.0 | 42.6 | 45.1 | 37.4 |
| 1998 | 43.2 | 43.1 | 45.6 | 37.6 |
| 1999 | 44.1 | 43.4 | 46.0 | 37.8 |
| 2000 | 44.7 | 43.7 | 46.4 | 37.9 |
| 2001 | 45.7 | 44.1 | 46.9 | 38.1 |
| 2002 | 46.5 | 44.8 | 47.4 | 38.3 |
| 2003 | 47.1 | 45.2 | 47.9 | 38.4 |
| 2004 | 47.8 | 45.4 | 48.2 | 38.6 |
| 2005 | 48.4 | 45.4 | 48.4 | 38.7 |
| 2006 | 48.7 | 45.6 | 48.7 | 38.8 |
| 2007 | 48.6 | 45.9 | 48.9 | 38.9 |
| 2008 | 48.2 | 45.9 | 49.0 | 39.0 |
| 2009 | 47.4 | 46.1 | 49.3 | 39.1 |
| 2010 | 46.9 | 46.3 | 49.5 | 39.2 |
| 2011 | 47.7 | 46.6 | 49.6 | 39.4 |
| 2012 | 46.2 | 47.0 | 49.8 | 39.4 |
| 2013 | 46.1 | 47.0 | 50.0 | 39.5 |
| 2014 | 47.1 | 47.2 | 50.2 | 39.5 |
| 2015 | 47.3 | 47.6 | 50.6 | 39.5 |
| 2016 | 46.8 | 48.0 | 50.9 | 39.6 |
| 2017 | 46.4 | 48.2 | 51.3 | 39.6 |
| 2018 | 45.7 | 48.4 | 51.7 | 40.1 |
| 2019 | 46.0 | 48.8 | 51.9 | 40.1 |
| 2020 | 46.3 | 49.2 | 52.3 | 40.0 |
| 2021 | 46.3 | 49.5 | 52.6 | 39.9 |

- Mean AK Working Age is the annual average age of all Alaskans age 16-64 as reported by the Alaska Department of Labor and Workforce Development, Research and Analysis Section.
- Age data from the CFEC permit file is as of December 31st of each year.

Table 5-7 shows the annual mean age of four different cohorts of people: 1) Norton Sound salmon gillnet (S04Z) permit holders; 2) all salmon set gillnet permit holders statewide; 3) all CFEC limited entry permit holders; and 4) the Alaskan working population.

Note that these figures include ages of permit holders for both transferable and non-transferable permits. Some individuals hold permits in more than one fishery; in these cases, the age of the permit holder is counted once for each permit that he or she holds.

The mean age of the general Alaskan working age population has increased 6.5 years between 1980 and 2021. The change in ages over the same period for all CFEC permit holders was 13.7 years, and 11.6 years for the statewide set gillnet permit holders.

For S04Z permit holders, the mean age increased 3.5 years.

S04Z Permit Value

Many permit transfers are non-monetary transactions (see Table 5-2). Table 5-8 considers solely arms-length market transactions where permits are sold. CFEC estimated values are expressed in both nominal and real (adjusted for inflation) terms.

Table 5-8. CFEC Estimated Value of Norton Sound Salmon Gillnet Permits

| Year | S04Z Permit Sales | Nominal Value | Real Value | Real Standard Deviation |
|------|-------------------|---------------|------------|-------------------------|
| 1987 | 3 | \$10,000 | \$24,900 | \$3,200 |
| 1988 | 4 | \$9,100 | \$21,700 | \$4,500 |
| 1989 | 5 | \$9,700 | \$22,000 | \$2,600 |
| 1990 | 1 | \$10,800 | \$24,400 | \$1,400 |
| 1991 | 4 | \$8,500 | \$17,500 | \$1,000 |
| 1992 | 1 | \$8,000 | \$15,700 | \$2,700 |
| 1993 | 2 | \$7,000 | \$13,800 | \$2,100 |
| 1994 | 4 | \$7,800 | \$14,700 | \$1,400 |
| 1995 | 4 | \$7,200 | \$13,200 | \$700 |
| 1996 | 2 | \$6,800 | \$12,300 | \$1,900 |
| 1997 | 4 | \$5,200 | \$9,100 | \$1,200 |
| 1998 | 3 | \$4,900 | \$8,300 | \$1,100 |
| 1999 | 1 | \$4,600 | \$7,700 | \$800 |
| 2000 | 2 | \$4,500 | \$7,400 | \$200 |
| 2001 | 0 | \$4,500 | \$7,400 | \$200 |
| 2002 | 0 | \$4,500 | \$7,400 | \$200 |
| 2003 | 1 | \$4,400 | \$6,700 | \$700 |
| 2004 | 0 | \$4,400 | \$6,700 | \$700 |
| 2005 | 0 | \$4,400 | \$6,700 | \$700 |
| 2006 | 2 | \$4,300 | \$6,200 | \$400 |
| 2007 | 7 | \$4,600 | \$6,200 | \$800 |
| 2008 | 7 | \$5,000 | \$6,500 | \$1,000 |
| 2009 | 9 | \$5,300 | \$7,000 | \$1,100 |
| 2010 | 8 | \$5,600 | \$7,200 | \$700 |
| 2011 | 7 | \$7,800 | \$9,800 | \$1,600 |
| 2012 | 8 | \$9,200 | \$11,300 | \$1,300 |
| 2013 | 1 | \$9,600 | \$12,200 | \$1,500 |
| 2014 | 4 | \$10,800 | \$12,900 | \$900 |
| 2015 | 2 | \$11,100 | \$13,200 | \$1,100 |
| 2016 | 6 | \$12,200 | \$14,300 | \$1,300 |
| 2017 | 0 | \$12,100 | \$14,200 | \$1,600 |
| 2018 | 4 | \$12,400 | \$13,900 | \$1,500 |
| 2019 | 4 | \$15,500 | \$17,000 | \$2,200 |
| 2020 | 2 | \$16,100 | \$17,800 | \$1,100 |
| 2021 | 3 | \$17,000 | \$18,000 | \$1,800 |

- Permit values represent averages of all arms-length sale transactions over the year. Beginning in 1991, additional data from recent months in the preceding year may be included until at least four observations can be averaged.
- Real permit values were calculated using the 2022 Consumer Price Index from the U.S. Bureau of Labor Statistics.

Participation and Earnings

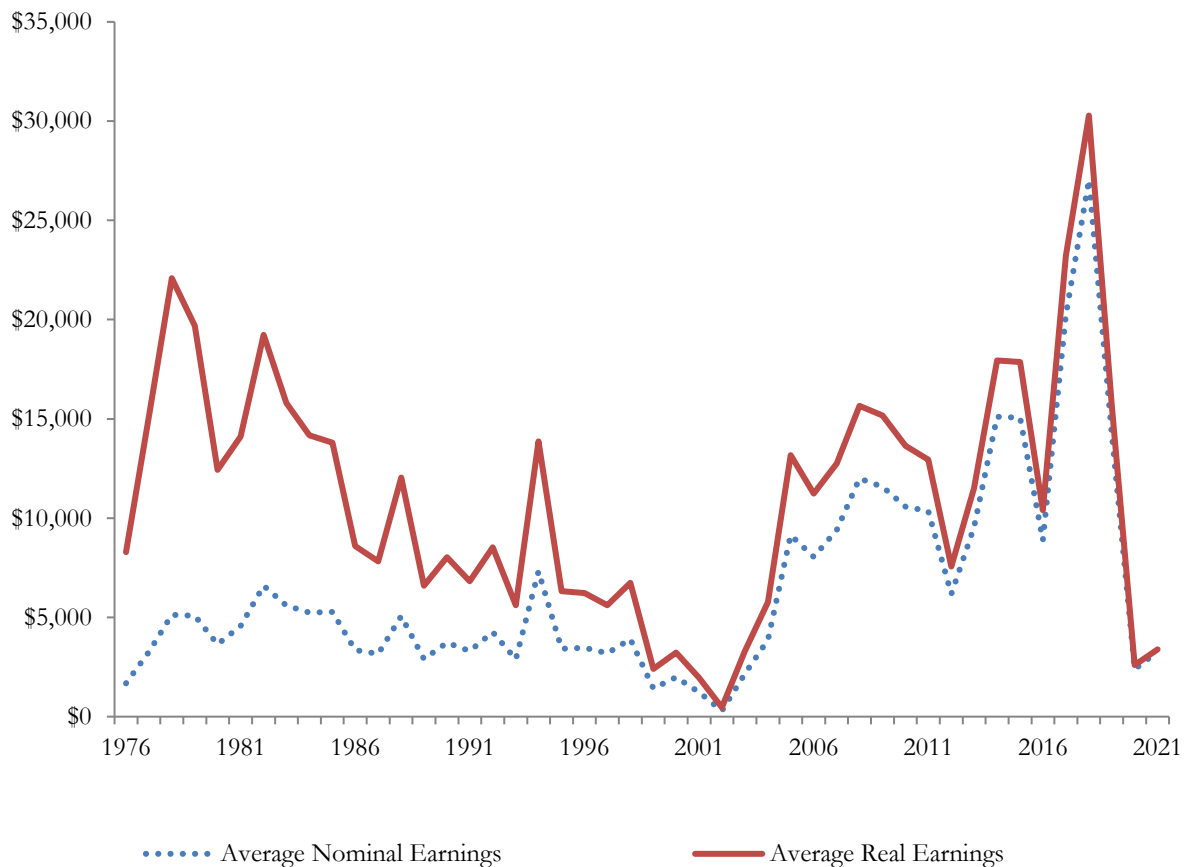
Earnings are estimated from weighted average ex-vessel prices, and as noted earlier, come primarily from the ADF&G Commercial Operators Annual Report and fish ticket values. Earnings shown in Figure 5-4 reflect both nominal and real dollars using the 2022 Consumer Price Index from the U.S. Bureau of Labor Statistics.

Permit counts include interim-entry permits and permanent permits. Interim-entry permits are issued to individuals during the period when their applications for permanent permits are in adjudication. The last year an interim-entry permit was held in the Norton Sound salmon gillnet fishery was in 2004. Some individuals made landings on both an interim-entry permit and subsequently on their newly issued permanent permit in the same year; for these instances, only the permanent permit is counted in this report.

Table 5-9 reports the number of permit issued, and estimated gross earnings in the Norton Sound salmon gillnet fishery from 1976 to 2021. Note that the figures by permit or vessel in this table span the entire year, regardless of who held the permit or however many times the permit was transferred.

Table 5-10 reports the number of permit holders (people) and estimated real (inflation adjusted) gross earnings by each resident type.

Figure 5-4. Estimated Nominal and Real Average Gross Earnings Per Kotzebue Salmon Set Gillnet Permit



- Real earnings are adjusted for inflation using the 2022 U.S. Bureau of Labor Statistics Consumer Price Index.

Table 5-9. Estimated Total Gross Earnings (Real and Nominal) for the Norton Sound Salmon Gillnet Fishery, With Average Gross (Real) Earnings by Permit, 1976-2021

| Year | Permits Issued | Total Gross Earnings | | Permits With Landings | Average Real Earnings |
|------|----------------|----------------------|-------------|-----------------------|-----------------------|
| | | Nominal | Real | | |
| 1976 | 263 | \$236,404 | \$1,167,920 | 141 | \$8,283 |
| 1977 | 208 | \$546,010 | \$2,532,813 | 167 | \$15,167 |
| 1978 | 199 | \$907,330 | \$3,910,484 | 177 | \$22,093 |
| 1979 | 200 | \$878,792 | \$3,404,348 | 173 | \$19,678 |
| 1980 | 201 | \$572,125 | \$1,951,886 | 157 | \$12,432 |
| 1981 | 200 | \$761,658 | \$2,355,112 | 167 | \$14,102 |
| 1982 | 203 | \$1,069,723 | \$3,116,585 | 162 | \$19,238 |
| 1983 | 203 | \$946,232 | \$2,670,996 | 169 | \$15,805 |
| 1984 | 204 | \$738,064 | \$1,997,483 | 141 | \$14,167 |
| 1985 | 205 | \$818,477 | \$2,139,262 | 155 | \$13,802 |
| 1986 | 203 | \$546,452 | \$1,401,663 | 163 | \$8,599 |
| 1987 | 202 | \$517,894 | \$1,281,452 | 164 | \$7,814 |
| 1988 | 202 | \$764,972 | \$1,818,649 | 151 | \$12,044 |
| 1989 | 202 | \$319,622 | \$724,882 | 110 | \$6,590 |
| 1990 | 201 | \$474,064 | \$1,020,082 | 127 | \$8,032 |
| 1991 | 201 | \$413,479 | \$853,568 | 125 | \$6,829 |
| 1992 | 201 | \$464,430 | \$930,563 | 109 | \$8,537 |
| 1993 | 200 | \$368,741 | \$717,652 | 128 | \$5,607 |
| 1994 | 201 | \$863,060 | \$1,637,022 | 118 | \$13,873 |
| 1995 | 199 | \$356,164 | \$657,125 | 104 | \$6,319 |
| 1996 | 199 | \$344,162 | \$616,898 | 99 | \$6,231 |
| 1997 | 198 | \$326,618 | \$572,078 | 102 | \$5,609 |
| 1998 | 197 | \$351,410 | \$606,093 | 90 | \$6,734 |
| 1999 | 194 | \$82,773 | \$139,706 | 58 | \$2,409 |
| 2000 | 193 | \$154,459 | \$252,182 | 78 | \$3,233 |
| 2001 | 190 | \$62,881 | \$99,842 | 51 | \$1,958 |
| 2002 | 185 | \$3,559 | \$5,563 | 12 | \$464 |
| 2003 | 180 | \$64,859 | \$99,126 | 30 | \$3,304 |
| 2004 | 162 | \$139,616 | \$207,815 | 36 | \$5,773 |
| 2005 | 154 | \$365,820 | \$526,647 | 40 | \$13,166 |
| 2006 | 154 | \$483,163 | \$673,839 | 60 | \$11,231 |
| 2007 | 155 | \$696,133 | \$943,929 | 74 | \$12,756 |
| 2008 | 167 | \$1,115,423 | \$1,456,550 | 93 | \$15,662 |
| 2009 | 168 | \$1,019,157 | \$1,335,592 | 88 | \$15,177 |
| 2010 | 173 | \$1,216,646 | \$1,568,672 | 115 | \$13,641 |
| 2011 | 178 | \$1,273,640 | \$1,591,903 | 123 | \$12,942 |
| 2012 | 182 | \$759,400 | \$929,919 | 123 | \$7,560 |
| 2013 | 181 | \$1,182,895 | \$1,427,596 | 124 | \$11,513 |
| 2014 | 180 | \$1,904,426 | \$2,261,697 | 126 | \$17,950 |
| 2015 | 180 | \$1,928,542 | \$2,287,623 | 128 | \$17,872 |
| 2016 | 179 | \$1,243,605 | \$1,456,778 | 140 | \$10,406 |
| 2017 | 181 | \$2,792,232 | \$3,202,642 | 138 | \$23,208 |
| 2018 | 184 | \$4,002,579 | \$4,481,428 | 148 | \$30,280 |
| 2019 | 185 | \$2,078,423 | \$2,285,654 | 145 | \$15,763 |
| 2020 | 184 | \$291,499 | \$316,657 | 122 | \$2,596 |
| 2021 | 183 | \$415,647 | \$431,259 | 127 | \$3,396 |

- Adjusted for inflation to 2022 dollars using U.S. Bureau of Labor Statistics Consumer Price Index.
- Counts will differ from CFEC on-line Basic Information Tables where the on-line data does not account for the combination of interim-entry permits that were issued as permanent permits in the same year.

Table 5-10. Estimated Real Gross Earnings for Permit Holders in the Norton Sound Salmon Gillnet Fishery by Resident Type, 1976-2021

| Year | Local Gross Earnings | | | Nonlocal Gross Earnings | | | Nonresident Gross Earnings | | | Total Gross Earnings | | |
|------|-------------------------|--------------|--------------|----------------------------|--------------|--------------|-------------------------------|--------------|--------------|-------------------------|----------|-------------|
| | People | Average | Total | People | Average | Total | People | Average | Total | People | Average | Total |
| 1976 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 141 | \$8,283 | \$1,167,920 |
| 1977 | 164 | \$14,892 | \$2,442,350 | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 167 | \$15,167 | \$2,532,813 |
| 1978 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 177 | \$22,093 | \$3,910,484 |
| 1979 | 169 | \$19,350 | \$3,270,184 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 175 | \$19,453 | \$3,404,348 |
| 1980 | 152 | \$12,285 | \$1,867,275 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 157 | \$12,432 | \$1,951,886 |
| 1981 | 160 | \$13,848 | \$2,215,741 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 167 | \$14,102 | \$2,355,112 |
| 1982 | 155 | \$18,603 | \$2,883,397 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 164 | \$19,004 | \$3,116,585 |
| 1983 | 158 | \$15,332 | \$2,422,500 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 173 | \$15,439 | \$2,670,996 |
| 1984 | 139 | \$13,832 | \$1,922,608 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 146 | \$13,681 | \$1,997,483 |
| 1985 | 150 | \$13,515 | \$2,027,282 | 9 | \$12,442 | \$111,980 | 0 | - | - | 159 | \$13,454 | \$2,139,262 |
| 1986 | 154 | \$8,503 | \$1,309,427 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 166 | \$8,444 | \$1,401,663 |
| 1987 | 161 | \$7,556 | \$1,216,478 | 7 | \$9,282 | \$64,974 | 0 | - | - | 168 | \$7,628 | \$1,281,452 |
| 1988 | 150 | \$11,930 | \$1,789,438 | 4 | \$7,303 | \$29,211 | 0 | - | - | 154 | \$11,809 | \$1,818,649 |
| 1989 | 106 | \$6,673 | \$707,320 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 111 | \$6,530 | \$724,882 |
| 1990 | 128 | \$7,949 | \$1,017,514 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 130 | \$7,847 | \$1,020,082 |
| 1991 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 130 | \$6,566 | \$853,568 |
| 1992 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 115 | \$8,092 | \$930,563 |
| 1993 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 128 | \$5,607 | \$717,652 |
| 1994 | 117 | \$13,810 | \$1,615,803 | 4 | \$5,305 | \$21,219 | 0 | - | - | 121 | \$13,529 | \$1,637,022 |
| 1995 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 106 | \$6,199 | \$657,125 |
| 1996 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 100 | \$6,169 | \$616,898 |
| 1997 | 99 | \$5,690 | \$563,353 | 5 | \$1,745 | \$8,725 | 0 | - | - | 104 | \$5,501 | \$572,078 |
| 1998 | 88 | \$6,767 | \$595,501 | 4 | \$2,648 | \$10,593 | 0 | - | - | 92 | \$6,588 | \$606,093 |
| 1999 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 58 | \$2,409 | \$139,706 |
| 2000 | 77 | \$3,208 | \$246,990 | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 80 | \$3,152 | \$252,182 |
| 2001 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 51 | \$1,958 | \$99,842 |
| 2002 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 12 | \$464 | \$5,563 |
| 2003 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 30 | \$3,304 | \$99,126 |
| 2004 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 36 | \$5,773 | \$207,815 |
| 2005 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 40 | \$13,166 | \$526,647 |
| 2006 | 56 | \$11,239 | \$629,386 | 4 | \$11,113 | \$44,452 | 0 | - | - | 60 | \$11,231 | \$673,839 |
| 2007 | 72 | \$12,365 | \$890,264 | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 75 | \$12,586 | \$943,929 |
| 2008 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 93 | \$15,662 | \$1,456,550 |
| 2009 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 88 | \$15,177 | \$1,335,592 |
| 2010 | 113 | \$13,245 | \$1,496,673 | 4 | \$18,000 | \$71,999 | 0 | - | - | 117 | \$13,407 | \$1,568,672 |
| 2011 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 125 | \$12,735 | \$1,591,903 |
| 2012 | 123 | \$7,282 | \$895,640 | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 126 | \$7,380 | \$929,919 |
| 2013 | 121 | \$11,392 | \$1,378,454 | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 125 | \$11,421 | \$1,427,596 |
| 2014 | 125 | \$17,946 | \$2,243,219 | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 127 | \$17,809 | \$2,261,697 |
| 2015 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 132 | \$17,330 | \$2,287,623 |
| 2016 | 138 | \$10,404 | \$1,435,764 | 4 | \$5,254 | \$21,014 | 0 | - | - | 142 | \$10,259 | \$1,456,778 |
| 2017 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 139 | \$23,041 | \$3,202,642 |
| 2018 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 152 | \$29,483 | \$4,481,428 |
| 2019 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 148 | \$15,444 | \$2,285,654 |
| 2020 | 123 | \$2,574 | \$316,657 | 0 | - | - | 0 | - | - | 123 | \$2,574 | \$316,657 |
| 2021 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | - | - | 127 | \$3,396 | \$431,259 |

- Adjusted for inflation to 2022 dollars using U.S. Bureau of Labor Statistics Consumer Price Index.
- When fewer than four individuals in a cohort make landings, counts of participation and earnings are masked for both that cohort and at least one other cohort that year.
- Counts will differ from CFEC on-line Basic Information Tables where the on-line data does not account for the combination of interim-entry permits that were issued as permanent permits in the same year.
- Note that these counts are for individuals, not permits.

Chapter 6 Kotzebue Salmon Gillnet Fishery

S04X Permit Holdings

Limited entry permits for the Kotzebue salmon gillnet fishery (S04X permits) were issued starting in 1976. CFEC has issued 220 S04X permits. Table 6-1 indicates the initial distribution and historical net changes in permit holdings for the fishery. Of this total, Alaska Locals received 95.9% (211/220) of the permits, Nonlocal Alaskans received 3.6% (8/220) of the permits, and Nonresidents received 0.5% (1/220). Every S04X permit was issued as a transferable permit.

Table 6-1. Initial Issuance and Year-end 2021 Totals of Kotzebue Salmon Gillnet Permits, With Net Changes Due to Permit Transfers, Migrations, and Cancellations, by Resident Type

| INITIAL ISSUE | | | TRANSFERS | | MIGRATIONS | | CANCELLED | | 2021 YEAR-END | |
|---------------|------------|---------------|-----------|-----------------------------|------------|-----------------------------|------------|-----------------------------|---------------|---------------|
| Residency | Total | Percent | Change | Percent Change from Initial | Change | Percent Change from Initial | Change | Percent Change from Initial | Total | Percent |
| Local | 211 | 95.9% | 25 | 11.8% | -55 | -26.1% | -40 | -19.0% | 141 | 89.2% |
| Nonlocal | 8 | 3.6% | -22 | -275.0% | 47 | 587.5% | -17 | -212.5% | 16 | 10.1% |
| Nonresident | 1 | 0.5% | -3 | -300.0% | 8 | 800.0% | -5 | -500.0% | 1 | 0.6% |
| Total | 220 | 100.0% | 0 | 0.0% | 0 | 0.0% | -62 | -28.2% | 158 | 100.0% |

The number of permits held by each resident type can change for three reasons: permits can be transferred to other resident types (transfer); permit holders can move from one location to another (migration); or permits can be cancelled, such as when a permit holder does not pay the renewal fee for two consecutive years. This table indicates the extent to which these factors have contributed to net changes in permit holdings in this fishery.

Transfers of S04X Permits

Under the Limited Entry Act's terms of free transferability, permits may be sold, traded, given away, or inherited. CFEC requires the completion of a survey with each transfer.¹¹ The surveys provide information such as transfer acquisition methods, the relationship between individuals in the transaction, and the sale amount for instances when the permit is sold.

Table 6-2. Transfer Acquisition Methods for Kotzebue Salmon Gillnet Permits, 1980-2021

| Acquisition Method | Kotzebue Salmon Gillnet | | Statewide Salmon Set Gillnet | | All Fisheries Statewide | |
|--------------------|-------------------------|---------|------------------------------|---------|-------------------------|---------|
| | Count | Percent | Count | Percent | Count | Percent |
| Gift | 262 | 54.2% | 6,717 | 51.0% | 13,403 | 32.5% |
| Sale | 146 | 30.2% | 5,069 | 38.5% | 24,174 | 58.6% |
| Trade | 4 | 0.8% | 97 | 0.7% | 531 | 1.3% |
| Other | 71 | 14.7% | 1,282 | 9.7% | 3,134 | 7.6% |
| Total | 483 | | 13,165 | | 41,242 | |

Table 6-2 compares and contrasts the transfer acquisition methods for the S04X permits, all statewide salmon set gillnet permits, and all limited entry permits between 1980 and 2021. A little over half of all S04X transfers were gifts (54.2% or 262/483), almost a third were sales (30.2% or 146/483), and a smaller percentage were trades (0.8% or 4/483) or other (14.7% or 71/483). The annual acquisition methods for S04X permits can be viewed in a different publication.¹²

Table 6-3. Relationships of Transferor to Transfer Recipients for Kotzebue Salmon Gillnet Permits, 1980-2021

| Relationship | Kotzebue Salmon Gillnet | | Statewide Salmon Set Gillnet | | All Fisheries Statewide | |
|----------------------------|-------------------------|---------|------------------------------|---------|-------------------------|---------|
| | Count | Percent | Count | Percent | Count | Percent |
| Business Partner/Friend | 76 | 15.7% | 2,632 | 20.0% | 7,713 | 18.7% |
| Member of Immediate Family | 298 | 61.7% | 6,331 | 48.1% | 13,850 | 33.6% |
| Other Relative | 30 | 6.2% | 914 | 6.9% | 1,846 | 4.5% |
| Other | 79 | 16.4% | 3,288 | 25.0% | 17,833 | 43.2% |
| Total | 483 | | 13,165 | | 41,242 | |

Table 6-3 shows the relationships between the transferors and transfer recipients for S04X permits, and compares S04X permit transfers with all statewide salmon set gillnet permits, and all limited entry permits from 1980 to 2021. Transfers within the family, both between immediate family members and other relatives, total 67.9% (328/483) of all permit transfers for S04X permits compared 55.0% (7,245/13,165) for all salmon set gillnet permits statewide, and 38.1% (15,696/41,242) for all limited entry permits statewide.

Emergency Transfers of S04X Permits

Commercial landings can be made with either permanently-held permits or with permits held temporarily through emergency transfers. Emergency transfers (ET) of permits are granted on permanent permits if illness, disability, death, required military or government service, or other unavoidable hardship of a temporary, unexpected, and unforeseen nature prevents the permanent permit holder from participating in the fishery. "Hardship" does not include the results of a permit holder's own economic decisions, or the

¹¹ CFEC implemented the transfer survey in 1980.

¹² See *Changes in the Distribution of Alaska's Commercial Fisheries Entry Permits, 1975-2021*, CFEC Report No. 22-2N.

results of economic, biological or regulatory variables which are normally part of the risk of doing business as a fisherman. At the end of the year, ET permits automatically revert back to the permanent permit holder.

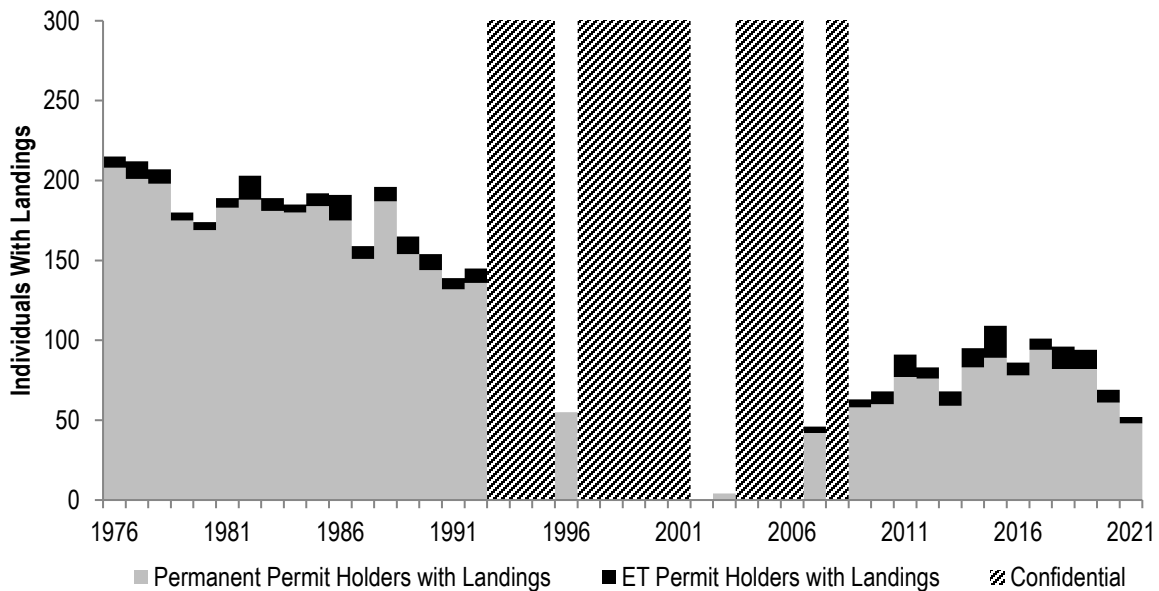
Table 6-4 and Figure 6-1 show the total number of individuals who recorded landings each year, and of that group, the number of individuals who made landings with ET permits. Some individuals who made landings with ET permits also made landings with permanent permits in the same year.

Table 6-4. Use of Emergency Transfer Permits in the Kotzebue Salmon Gillnet Fishery, 1976-2021

| Year | Individuals With Landings | ET Permit Holders With Landings | ET Rate | Year | Individuals With Landings | ET Permit Holders With Landings | ET Rate | Year | Individuals With Landings | ET Permit Holders With Landings | ET Rate |
|------|---------------------------|---------------------------------|---------|------|---------------------------|---------------------------------|---------|------|---------------------------|---------------------------------|---------|
| 1976 | 215 | 7 | 3.3% | 1992 | 145 | 9 | 6.2% | 2008 | 48 | 1 to 3 | - |
| 1977 | 212 | 11 | 5.2% | 1993 | 114 | 1 to 3 | - | 2009 | 63 | 5 | 7.9% |
| 1978 | 207 | 9 | 4.3% | 1994 | 110 | 1 to 3 | - | 2010 | 68 | 8 | 11.8% |
| 1979 | 180 | 5 | 2.8% | 1995 | 91 | 1 to 3 | - | 2011 | 91 | 14 | 15.4% |
| 1980 | 174 | 5 | 2.9% | 1996 | 55 | 0 | 0.0% | 2012 | 83 | 7 | 8.4% |
| 1981 | 189 | 6 | 3.2% | 1997 | 68 | 1 to 3 | - | 2013 | 68 | 9 | 13.2% |
| 1982 | 203 | 15 | 7.4% | 1998 | 44 | 1 to 3 | - | 2014 | 95 | 12 | 12.6% |
| 1983 | 189 | 8 | 4.2% | 1999 | 59 | 1 to 3 | - | 2015 | 109 | 20 | 18.3% |
| 1984 | 185 | 5 | 2.7% | 2000 | 64 | 1 to 3 | - | 2016 | 86 | 8 | 9.3% |
| 1985 | 192 | 8 | 4.2% | 2001 | 65 | 1 to 3 | - | 2017 | 101 | 7 | 6.9% |
| 1986 | 191 | 16 | 8.4% | 2002 | 1 to 3 | 0 | 0.0% | 2018 | 96 | 14 | 14.6% |
| 1987 | 159 | 8 | 5.0% | 2003 | 4 | 0 | 0.0% | 2019 | 94 | 12 | 12.8% |
| 1988 | 196 | 9 | 4.6% | 2004 | 43 | 1 to 3 | - | 2020 | 69 | 8 | 11.6% |
| 1989 | 165 | 11 | 6.7% | 2005 | 41 | 1 to 3 | - | 2021 | 52 | 4 | 7.7% |
| 1990 | 154 | 10 | 6.5% | 2006 | 42 | 1 to 3 | - | | | | |
| 1991 | 139 | 7 | 5.0% | 2007 | 46 | 4 | 8.7% | | | | |

- When fewer than four individuals make landings, figures are masked due to confidentiality.

Figure 6-1. Use of Emergency Transfer Permits in the Kotzebue Salmon Set Gillnet Fishery, 1976-2021



Latent S04X Permits

CFEC regulations require individuals to renew their limited entry permits annually, regardless of whether they actually fish. Permits that are not used (don't record landings) in a given year are referred to herein as "latent" permits for that year.

Table 6-5 indicates the total number of issued S04X permits issued each year, the number of permits fished (with commercial landings), and the rate of permit latency. Issued permits include both interim entry and permanent permits. Note that for this table, in years when a single individual held an interim-entry permit and was also issued a permanent permit, only the permanent permit is counted. The rate of latency is depicted in Figure 6-2.

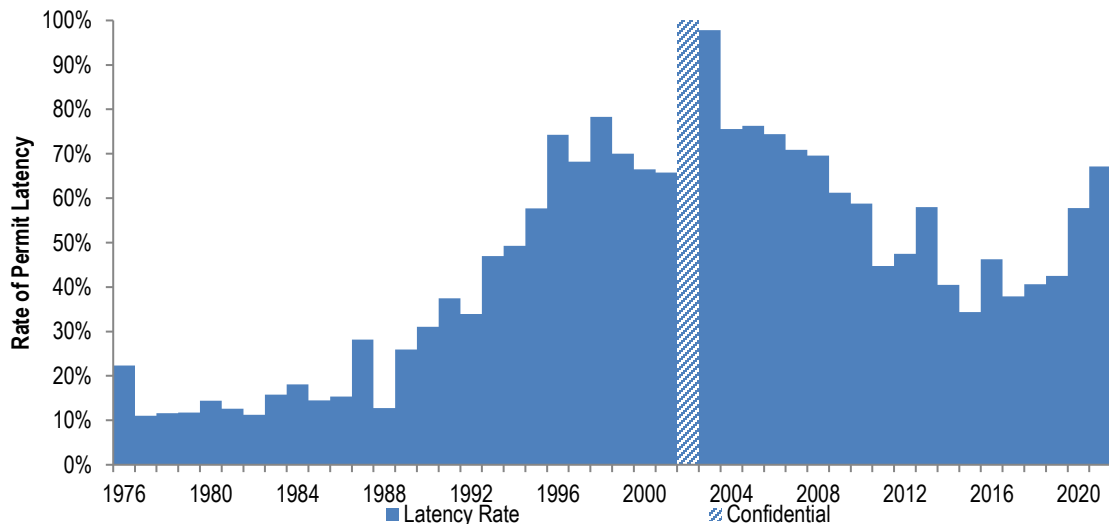
There are many reasons why an individual might not fish in any given year. This table and figure do not explain any of these reasons.

Table 6-5. Kotzebue Salmon Gillnet Permit Latency, 1976-2021

| Year | Permits | | Latency | Year | Permits | | Latency | Year | Permits | | Latency |
|------|---------|--------|---------|------|---------|--------|---------|------|---------|--------|---------|
| | Issued | Fished | Rate | | Issued | Fished | Rate | | Issued | Fished | Rate |
| 1976 | 273 | 212 | 22.3% | 1992 | 218 | 144 | 33.9% | 2008 | 158 | 48 | 69.6% |
| 1977 | 235 | 209 | 11.1% | 1993 | 215 | 114 | 47.0% | 2009 | 160 | 62 | 61.3% |
| 1978 | 233 | 206 | 11.6% | 1994 | 215 | 109 | 49.3% | 2010 | 160 | 66 | 58.8% |
| 1979 | 204 | 180 | 11.8% | 1995 | 215 | 91 | 57.7% | 2011 | 161 | 89 | 44.7% |
| 1980 | 201 | 172 | 14.4% | 1996 | 214 | 55 | 74.3% | 2012 | 158 | 83 | 47.5% |
| 1981 | 214 | 187 | 12.6% | 1997 | 211 | 67 | 68.2% | 2013 | 157 | 66 | 58.0% |
| 1982 | 223 | 198 | 11.2% | 1998 | 203 | 44 | 78.3% | 2014 | 158 | 94 | 40.5% |
| 1983 | 222 | 187 | 15.8% | 1999 | 197 | 59 | 70.1% | 2015 | 160 | 105 | 34.4% |
| 1984 | 221 | 181 | 18.1% | 2000 | 191 | 64 | 66.5% | 2016 | 160 | 86 | 46.3% |
| 1985 | 221 | 189 | 14.5% | 2001 | 190 | 65 | 65.8% | 2017 | 161 | 100 | 37.9% |
| 1986 | 221 | 187 | 15.4% | 2002 | 186 | 1 to 3 | - | 2018 | 160 | 95 | 40.6% |
| 1987 | 220 | 158 | 28.2% | 2003 | 184 | 4 | 97.8% | 2019 | 160 | 92 | 42.5% |
| 1988 | 220 | 192 | 12.7% | 2004 | 176 | 43 | 75.6% | 2020 | 161 | 68 | 57.8% |
| 1989 | 220 | 163 | 25.9% | 2005 | 173 | 41 | 76.3% | 2021 | 158 | 52 | 67.1% |
| 1990 | 219 | 151 | 31.1% | 2006 | 164 | 42 | 74.4% | | | | |
| 1991 | 219 | 137 | 37.4% | 2007 | 158 | 46 | 70.9% | | | | |

- When an individual with an interim-entry permit is issued a permanent permit in the same year, only the permanent permit is counted in the above table.
- 'Permits Fished' is the number of CFEC permits that were used to record commercial landings in that year.
- When fewer than four individuals make landings, figures are masked due to confidentiality.

Figure 6-2. Kotzebue Salmon Gillnet Permit Latency Rate, 1976-2021



New Entrants into the Kotzebue Salmon Gillnet Fishery

New entrants are defined herein as individuals who, for the first time, record a landing on a permanent S04X permit. It is important to note that initial permit holders are not considered new entrants because they needed a proven fishing history prior to 1976 in order to become an initial permit holder of a limited entry permit. Individuals who only make landings on an emergency transfer or interim-entry permit for any given year are not considered in this table.

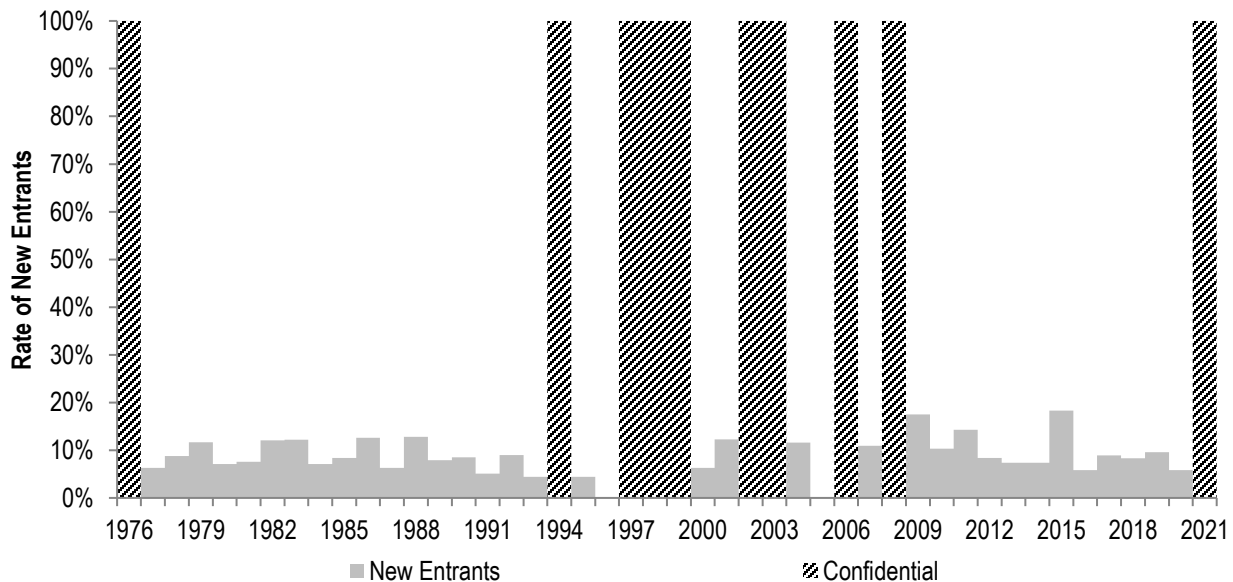
Table 6-6 and Figure 6-3 describe individuals rather than permits. An individual may hold up to two permits in this fishery, but can only fish one of them. An individual may hold one S04X permit one year, and then in subsequent years hold a different S04X permit. Likewise, individuals may enter and exit the fishery multiple times over the years. Individuals are only counted once as a new entrant and only in the year in which they made their first documented landing.

Table 6-6. New Entrants into the Kotzebue Salmon Gillnet Fishery, 1976-2021

| Year | Individuals w/Landings | New Entrants Count | Percent | Year | Individuals w/Landings | New Entrants Count | Percent | Year | Individuals w/Landings | New Entrants Count | Percent | Year | Individuals w/Landings | New Entrants Count | Percent |
|------|------------------------|--------------------|---------|------|------------------------|--------------------|---------|------|------------------------|--------------------|---------|------|------------------------|--------------------|---------|
| 1976 | 74 | 1 to 3 | - | 1988 | 195 | 25 | 12.8% | 2000 | 64 | 4 | 6.3% | 2012 | 83 | 7 | 8.4% |
| 1977 | 158 | 10 | 6.3% | 1989 | 164 | 13 | 7.9% | 2001 | 65 | 8 | 12.3% | 2013 | 68 | 5 | 7.4% |
| 1978 | 159 | 14 | 8.8% | 1990 | 153 | 13 | 8.5% | 2002 | 1 to 3 | 0 | - | 2014 | 95 | 7 | 7.4% |
| 1979 | 162 | 19 | 11.7% | 1991 | 137 | 7 | 5.1% | 2003 | 4 | 1 to 3 | - | 2015 | 109 | 20 | 18.3% |
| 1980 | 156 | 11 | 7.1% | 1992 | 144 | 13 | 9.0% | 2004 | 43 | 5 | 11.6% | 2016 | 86 | 5 | 5.8% |
| 1981 | 184 | 14 | 7.6% | 1993 | 114 | 5 | 4.4% | 2005 | 41 | 0 | 0.0% | 2017 | 101 | 9 | 8.9% |
| 1982 | 199 | 24 | 12.1% | 1994 | 110 | 1 to 3 | - | 2006 | 42 | 1 to 3 | - | 2018 | 96 | 8 | 8.3% |
| 1983 | 188 | 23 | 12.2% | 1995 | 91 | 4 | 4.4% | 2007 | 46 | 5 | 10.9% | 2019 | 94 | 9 | 9.6% |
| 1984 | 184 | 13 | 7.1% | 1996 | 55 | 0 | 0.0% | 2008 | 48 | 1 to 3 | - | 2020 | 69 | 4 | 5.8% |
| 1985 | 191 | 16 | 8.4% | 1997 | 68 | 1 to 3 | - | 2009 | 63 | 11 | 17.5% | 2021 | 52 | 1 to 3 | - |
| 1986 | 190 | 24 | 12.6% | 1998 | 44 | 1 to 3 | - | 2010 | 68 | 7 | 10.3% | | | | |
| 1987 | 158 | 10 | 6.3% | 1999 | 59 | 1 to 3 | - | 2011 | 91 | 13 | 14.3% | | | | |

- This table excludes individuals with interim-entry and emergency transfer permits.

Figure 6-3. New Entrants into the Kotzebue Salmon Gillnet Fishery, 1976-2021



Age of S04X Permit Holders

Table 6-7. Mean Age of Select CFEC Permit Holders and the General Alaskan Population

| Year | S04X | Statewide Salmon Set Gillnet | Statewide All Permits | Mean AK Worker Age |
|------|------|------------------------------|-----------------------|--------------------|
| 1980 | 42.2 | 37.9 | 38.9 | 33.4 |
| 1981 | 42.1 | 38.0 | 39.9 | 33.5 |
| 1982 | 41.2 | 38.2 | 40.0 | 33.6 |
| 1983 | 42.0 | 38.0 | 40.2 | 33.7 |
| 1984 | 41.4 | 38.2 | 40.4 | 33.8 |
| 1985 | 42.1 | 38.5 | 40.8 | 34.0 |
| 1986 | 42.3 | 38.8 | 41.0 | 34.2 |
| 1987 | 42.4 | 39.0 | 40.9 | 34.5 |
| 1988 | 41.8 | 39.3 | 41.2 | 34.9 |
| 1989 | 41.9 | 39.9 | 41.5 | 35.3 |
| 1990 | 42.4 | 40.0 | 42.0 | 35.5 |
| 1991 | 42.9 | 40.5 | 42.5 | 35.9 |
| 1992 | 43.0 | 40.8 | 42.9 | 36.2 |
| 1993 | 43.5 | 41.2 | 43.5 | 36.5 |
| 1994 | 44.0 | 41.5 | 44.0 | 36.7 |
| 1995 | 44.6 | 41.9 | 44.4 | 37.0 |
| 1996 | 45.5 | 42.3 | 44.8 | 37.2 |
| 1997 | 46.0 | 42.6 | 45.1 | 37.4 |
| 1998 | 46.2 | 43.1 | 45.6 | 37.6 |
| 1999 | 47.2 | 43.4 | 46.0 | 37.8 |
| 2000 | 47.7 | 43.7 | 46.4 | 37.9 |
| 2001 | 47.6 | 44.1 | 46.9 | 38.1 |
| 2002 | 48.5 | 44.8 | 47.4 | 38.3 |
| 2003 | 49.4 | 45.2 | 47.9 | 38.4 |
| 2004 | 49.7 | 45.4 | 48.2 | 38.6 |
| 2005 | 50.8 | 45.4 | 48.4 | 38.7 |
| 2006 | 51.0 | 45.6 | 48.7 | 38.8 |
| 2007 | 51.0 | 45.9 | 48.9 | 38.9 |
| 2008 | 51.7 | 45.9 | 49.0 | 39.0 |
| 2009 | 51.3 | 46.1 | 49.3 | 39.1 |
| 2010 | 51.3 | 46.3 | 49.5 | 39.2 |
| 2011 | 51.3 | 46.6 | 49.6 | 39.4 |
| 2012 | 51.5 | 47.0 | 49.8 | 39.4 |
| 2013 | 51.3 | 47.0 | 50.0 | 39.5 |
| 2014 | 51.4 | 47.2 | 50.2 | 39.5 |
| 2015 | 51.2 | 47.6 | 50.6 | 39.5 |
| 2016 | 50.9 | 48.0 | 50.9 | 39.6 |
| 2017 | 50.8 | 48.2 | 51.3 | 39.6 |
| 2018 | 52.0 | 48.4 | 51.7 | 40.1 |
| 2019 | 51.3 | 48.8 | 51.9 | 40.1 |
| 2020 | 50.9 | 49.2 | 52.3 | 40.0 |
| 2021 | 50.2 | 49.5 | 52.6 | 39.9 |

- Mean AK Working Age is the annual average age of all Alaskans age 16-64 as reported by the Alaska Department of Labor and Workforce Development, Research and Analysis Section.
- Age data from the CFEC permit file is as of December 31st of each year.

Table 6-7 shows the annual mean age of four different cohorts of people: 1) Kotzebue salmon gillnet (S04X) permit holders; 2) all salmon set gillnet permit holders statewide; 3) all CFEC limited entry permit holders; and 4) the Alaskan working population.

Note that these figures include ages of permit holders for both transferable and non-transferable permits. Some individuals hold permits in more than one fishery; in these cases, the age of the permit holder is counted once for each permit that he or she holds.

The mean age of the general Alaskan working age population has increased 6.5 years between 1980 and 2021. The change in ages over the same period for all CFEC permit holders was 13.7 years, and 11.6 years for the statewide set gillnet permit holders.

For S04X permit holders, the mean age increased 8 years.

S04X Permit Value

Many permit transfers are non-monetary transactions (see Table 6-2). Table 6-8 considers solely arms-length market transactions where permits are sold. CFEC estimated values are expressed in both nominal and real (adjusted for inflation) terms.

Table 6-8. CFEC Estimated Value of Kotzebue Salmon Gillnet Permits

| Year | S04X Permit Sales | Nominal Value | Real Value | Real Standard Deviation |
|------|-------------------|---------------|------------|-------------------------|
| 1987 | 3 | \$9,100 | \$21,900 | \$4,200 |
| 1988 | 9 | \$8,000 | \$18,900 | \$1,600 |
| 1989 | 2 | \$8,500 | \$19,700 | \$1,700 |
| 1990 | 4 | \$7,200 | \$15,600 | \$900 |
| 1991 | 1 | \$7,100 | \$15,000 | \$1,000 |
| 1992 | 4 | \$10,500 | \$21,000 | \$8,300 |
| 1993 | 1 | \$12,200 | \$25,300 | \$7,700 |
| 1994 | 1 | \$9,000 | \$17,900 | \$9,300 |
| 1995 | 3 | \$4,400 | \$8,200 | \$3,200 |
| 1996 | 0 | \$4,400 | \$8,200 | \$3,200 |
| 1997 | 0 | \$4,400 | \$8,200 | \$3,200 |
| 1998 | 2 | \$4,200 | \$7,000 | \$2,300 |
| 1999 | 1 | \$4,500 | \$6,900 | \$2,100 |
| 2000 | 2 | \$2,600 | \$3,800 | \$1,700 |
| 2001 | 2 | \$2,000 | \$3,300 | \$1,000 |
| 2002 | 0 | \$2,000 | \$3,300 | \$1,000 |
| 2003 | 0 | \$2,000 | \$3,300 | \$1,000 |
| 2004 | 0 | \$2,000 | \$3,300 | \$1,000 |
| 2005 | 1 | \$2,500 | \$4,100 | \$300 |
| 2006 | 0 | \$2,500 | \$4,100 | \$300 |
| 2007 | 0 | \$2,500 | \$4,100 | \$300 |
| 2008 | 1 | \$2,500 | \$3,500 | \$400 |
| 2009 | 3 | \$3,600 | \$4,700 | \$2,600 |
| 2010 | 2 | \$1,600 | \$1,700 | \$1,200 |
| 2011 | 5 | \$4,300 | \$5,400 | \$1,000 |
| 2012 | 1 | \$4,600 | \$5,800 | \$800 |
| 2013 | 0 | \$4,600 | \$5,800 | \$800 |
| 2014 | 4 | \$5,100 | \$6,100 | \$1,100 |
| 2015 | 1 | \$5,400 | \$6,400 | \$800 |
| 2016 | 3 | \$5,500 | \$6,500 | \$600 |
| 2017 | 2 | \$9,000 | \$10,800 | \$3,300 |
| 2018 | 0 | \$9,000 | \$10,800 | \$3,300 |
| 2019 | 0 | \$9,000 | \$10,800 | \$3,300 |
| 2020 | 2 | \$7,800 | \$6,000 | \$4,000 |
| 2021 | 1 | \$6,100 | \$5,000 | \$2,800 |

- Permit values represent averages of all arms-length sale transactions over the year. Beginning in 1991, additional data from recent months in the preceding year may be included until at least four observations can be averaged.
- Real permit values were calculated using the 2022 Consumer Price Index from the U.S. Bureau of Labor Statistics.

Participation and Earnings

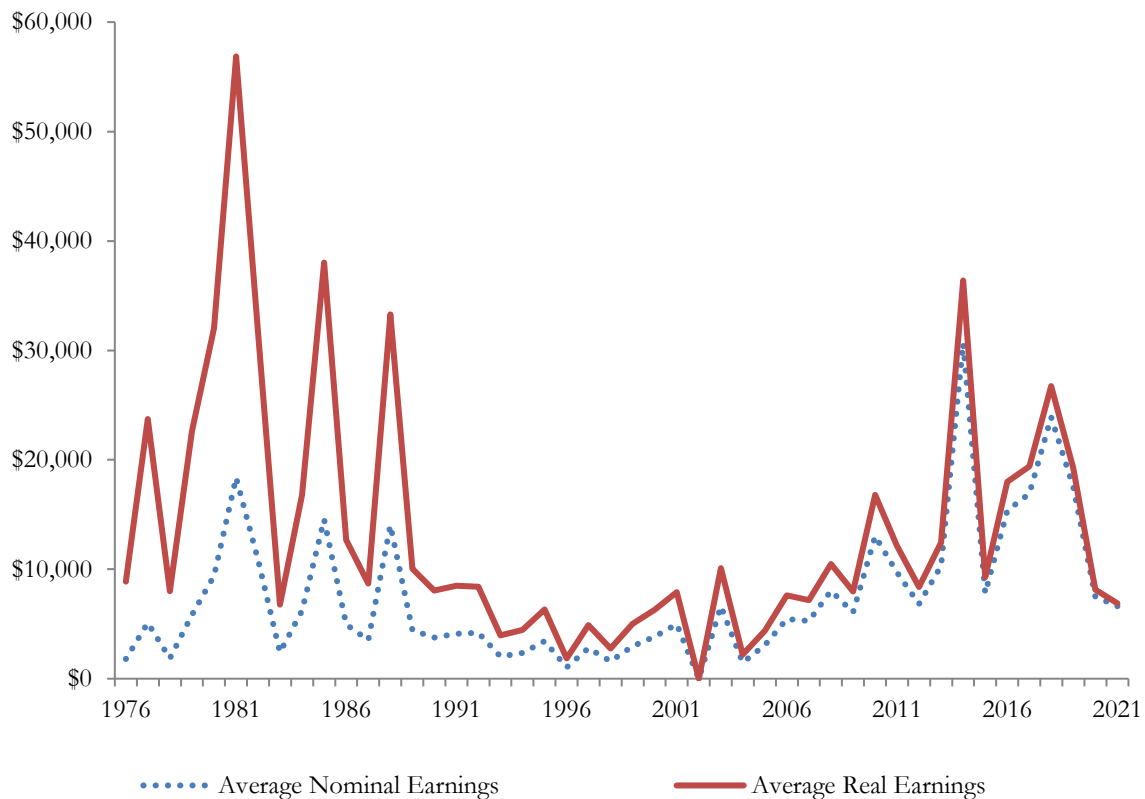
Earnings are estimated from weighted average ex-vessel prices, and as noted earlier, come primarily from the ADF&G Commercial Operators Annual Report and fish ticket values. Earnings shown in Figure 6-4 reflect both nominal and real dollars using the 2022 Consumer Price Index from the U.S. Bureau of Labor Statistics.

Permit counts include interim-entry permits and permanent permits. Interim-entry permits are issued to individuals during the period when their applications for permanent permits are in adjudication. The last year an interim-entry permit was held in the Kotzebue salmon gillnet fishery was in 2001. Some individuals made landings on both an interim-entry permit and subsequently on their newly issued permanent permit in the same year; for these instances, only the permanent permit is counted in this report.

Table 6-9 reports the number of permit issued, and estimated gross earnings in the Kotzebue salmon gillnet fishery from 1976 to 2021. Note that the figures by permit or vessel in this table span the entire year, regardless of who held the permit or however many times the permit was transferred.

Table 6-10 reports the number of permit holders (people) and estimated real (inflation adjusted) gross earnings by each resident type.

Figure 6-4. Estimated Nominal and Real Average Gross Earnings Per Kotzebue Salmon Set Gillnet Permit



- Real earnings are adjusted for inflation using the 2022 U.S. Bureau of Labor Statistics Consumer Price Index.

Table 6-9. Estimated Total Gross Earnings (Real and Nominal) for the Kotzebue Salmon Gillnet Fishery, With Average Gross (Real) Earnings by Permit, 1976-2021

| Year | Permits Issued | Total Gross Earnings | | Permits With Landings | Average Real Earnings |
|------|----------------|----------------------|--------------|-----------------------|-----------------------|
| | | Nominal | Real | | |
| 1976 | 273 | \$380,778 | \$1,881,181 | 212 | \$8,873 |
| 1977 | 235 | \$1,068,897 | \$4,958,364 | 209 | \$23,724 |
| 1978 | 233 | \$381,664 | \$1,644,925 | 206 | \$7,985 |
| 1979 | 204 | \$1,051,447 | \$4,073,197 | 180 | \$22,629 |
| 1980 | 201 | \$1,614,610 | \$5,508,477 | 172 | \$32,026 |
| 1981 | 214 | \$3,439,010 | \$10,633,718 | 187 | \$56,865 |
| 1982 | 223 | \$2,138,760 | \$6,231,172 | 198 | \$31,471 |
| 1983 | 222 | \$448,819 | \$1,266,912 | 187 | \$6,775 |
| 1984 | 221 | \$1,123,492 | \$3,040,597 | 181 | \$16,799 |
| 1985 | 221 | \$2,750,313 | \$7,188,519 | 189 | \$38,034 |
| 1986 | 221 | \$924,232 | \$2,370,678 | 187 | \$12,677 |
| 1987 | 220 | \$555,962 | \$1,375,643 | 158 | \$8,707 |
| 1988 | 220 | \$2,689,489 | \$6,394,007 | 192 | \$33,302 |
| 1989 | 220 | \$721,380 | \$1,636,041 | 163 | \$10,037 |
| 1990 | 219 | \$565,326 | \$1,216,458 | 151 | \$8,056 |
| 1991 | 219 | \$563,263 | \$1,162,775 | 137 | \$8,487 |
| 1992 | 218 | \$603,722 | \$1,209,659 | 144 | \$8,400 |
| 1993 | 215 | \$232,619 | \$452,729 | 114 | \$3,971 |
| 1994 | 215 | \$256,841 | \$487,168 | 109 | \$4,469 |
| 1995 | 215 | \$312,609 | \$576,765 | 91 | \$6,338 |
| 1996 | 214 | \$56,631 | \$101,508 | 55 | \$1,846 |
| 1997 | 211 | \$186,783 | \$327,154 | 67 | \$4,883 |
| 1998 | 203 | \$70,429 | \$121,471 | 44 | \$2,761 |
| 1999 | 197 | \$175,574 | \$296,336 | 59 | \$5,023 |
| 2000 | 191 | \$246,791 | \$402,931 | 64 | \$6,296 |
| 2001 | 190 | \$323,221 | \$513,213 | 65 | \$7,896 |
| 2002 | 186 | confidential | confidential | 1 to 3 | confidential |
| 2003 | 184 | \$26,469 | \$40,453 | 4 | \$10,113 |
| 2004 | 176 | \$63,634 | \$94,718 | 43 | \$2,203 |
| 2005 | 173 | \$124,717 | \$179,546 | 41 | \$4,379 |
| 2006 | 164 | \$229,027 | \$319,411 | 42 | \$7,605 |
| 2007 | 158 | \$243,179 | \$329,741 | 46 | \$7,168 |
| 2008 | 158 | \$385,481 | \$503,371 | 48 | \$10,487 |
| 2009 | 160 | \$376,434 | \$493,311 | 62 | \$7,957 |
| 2010 | 160 | \$860,504 | \$1,109,484 | 66 | \$16,810 |
| 2011 | 161 | \$865,504 | \$1,081,781 | 89 | \$12,155 |
| 2012 | 158 | \$567,476 | \$694,900 | 83 | \$8,372 |
| 2013 | 157 | \$679,711 | \$820,320 | 66 | \$12,429 |
| 2014 | 158 | \$2,880,679 | \$3,421,096 | 94 | \$36,395 |
| 2015 | 160 | \$820,527 | \$973,304 | 105 | \$9,270 |
| 2016 | 160 | \$1,322,023 | \$1,548,638 | 86 | \$18,007 |
| 2017 | 161 | \$1,691,656 | \$1,940,301 | 100 | \$19,403 |
| 2018 | 160 | \$2,269,488 | \$2,540,998 | 95 | \$26,747 |
| 2019 | 160 | \$1,611,391 | \$1,772,056 | 92 | \$19,261 |
| 2020 | 161 | \$509,150 | \$553,092 | 68 | \$8,134 |
| 2021 | 158 | \$344,671 | \$357,618 | 52 | \$6,877 |

- Adjusted for inflation to 2022 dollars using U.S. Bureau of Labor Statistics Consumer Price Index.
- When fewer than four individuals in a cohort make landings, counts of participation and earnings are masked for both that cohort and at least one other cohort that year.
- Counts will differ from CFEC on-line Basic Information Tables where the on-line data does not account for the combination of interim-entry permits that were issued as permanent permits in the same year.

Table 6-10. Estimated Real Gross Earnings for Permit Holders in the Kotzebue Salmon Gillnet Fishery by Resident Type, 1976-2021

| Year | Local | | | Nonlocal | | | Nonresident | | | Total | | |
|------|--------------|--------------|--------------|----------|--------------|--------------|-------------|--------------|--------------|--------|--------------|--------------|
| | People | Average | Total | People | Average | Total | People | Average | Total | People | Average | Total |
| 1976 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 215 | \$8,750 | \$1,881,181 |
| 1977 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 212 | \$23,389 | \$4,958,364 |
| 1978 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 207 | \$7,946 | \$1,644,925 |
| 1979 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 180 | \$22,629 | \$4,073,197 |
| 1980 | 170 | \$31,774 | \$5,401,531 | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 174 | \$31,658 | \$5,508,477 |
| 1981 | 183 | \$56,380 | \$10,317,504 | 4 | \$57,934 | \$231,738 | 2 | \$42,238 | \$84,476 | 189 | \$56,263 | \$10,633,718 |
| 1982 | 192 | \$30,945 | \$5,941,525 | 10 | \$25,567 | \$255,675 | 1 | \$33,972 | \$33,972 | 203 | \$30,695 | \$6,231,172 |
| 1983 | 176 | \$6,820 | \$1,200,326 | 11 | \$5,424 | \$59,664 | 2 | \$3,461 | \$6,922 | 189 | \$6,703 | \$1,266,912 |
| 1984 | 177 | \$16,548 | \$2,928,942 | 7 | \$13,662 | \$95,636 | 1 | \$16,020 | \$16,020 | 185 | \$16,436 | \$3,040,597 |
| 1985 | 181 | \$37,301 | \$6,751,402 | 9 | \$32,386 | \$291,478 | 2 | \$72,820 | \$145,640 | 192 | \$37,440 | \$7,188,519 |
| 1986 | 179 | \$12,364 | \$2,213,166 | 8 | \$13,782 | \$110,258 | 4 | \$11,814 | \$47,255 | 191 | \$12,412 | \$2,370,678 |
| 1987 | 151 | \$8,546 | \$1,290,392 | 5 | \$9,347 | \$46,733 | 2 | \$13,638 | \$27,275 | 158 | \$8,635 | \$1,364,400 |
| 1988 | 179 | \$33,245 | \$5,950,842 | 13 | \$24,704 | \$321,157 | 4 | \$30,502 | \$122,008 | 196 | \$32,622 | \$6,394,007 |
| 1989 | 152 | \$10,031 | \$1,524,684 | 9 | \$7,405 | \$66,649 | 4 | \$11,177 | \$44,708 | 165 | \$9,915 | \$1,636,041 |
| 1990 | 139 | \$7,917 | \$1,100,452 | 11 | \$7,851 | \$86,356 | 4 | \$7,412 | \$29,650 | 154 | \$7,899 | \$1,216,458 |
| 1991 | 132 | \$8,331 | \$1,099,715 | 4 | \$8,010 | \$32,041 | 3 | \$10,340 | \$31,019 | 139 | \$8,365 | \$1,162,775 |
| 1992 | 134 | \$8,415 | \$1,127,565 | 8 | \$7,002 | \$56,018 | 3 | \$8,692 | \$26,077 | 145 | \$8,342 | \$1,209,659 |
| 1993 | 108 | \$3,964 | \$428,161 | 5 | \$2,737 | \$13,684 | 1 | \$10,884 | \$10,884 | 114 | \$3,971 | \$452,729 |
| 1994 | 103 | \$4,453 | \$458,654 | 5 | \$2,905 | \$14,527 | 2 | \$6,994 | \$13,987 | 110 | \$4,429 | \$487,168 |
| 1995 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 91 | \$6,338 | \$576,765 |
| 1996 | 52 | \$1,909 | \$99,253 | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 55 | \$1,846 | \$101,508 |
| 1997 | 64 | \$4,865 | \$311,351 | 4 | \$3,951 | \$15,803 | 0 | | | 68 | \$4,811 | \$327,154 |
| 1998 | 44 | \$2,761 | \$121,471 | 0 | | | 0 | | | 44 | \$2,761 | \$121,471 |
| 1999 | 55 | \$5,280 | \$290,376 | 4 | \$1,490 | \$5,960 | 0 | | | 59 | \$5,023 | \$296,336 |
| 2000 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 64 | \$6,296 | \$402,931 |
| 2001 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 65 | \$7,896 | \$513,213 |
| 2002 | 1 to 3 | confidential | confidential | 0 | | | 0 | | | 1 to 3 | confidential | confidential |
| 2003 | 4 | \$10,113 | \$40,453 | 0 | | | 0 | | | 4 | \$10,113 | \$40,453 |
| 2004 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 43 | \$2,203 | \$94,718 |
| 2005 | 41 | \$4,379 | \$179,546 | 0 | | | 0 | | | 41 | \$4,379 | \$179,546 |
| 2006 | 42 | \$7,605 | \$319,411 | 0 | | | 0 | | | 42 | \$7,605 | \$319,411 |
| 2007 | 46 | \$7,168 | \$329,741 | 0 | | | 0 | | | 46 | \$7,168 | \$329,741 |
| 2008 | 48 | \$10,487 | \$503,371 | 0 | | | 0 | | | 48 | \$10,487 | \$503,371 |
| 2009 | 63 | \$7,830 | \$493,311 | 0 | | | 0 | | | 63 | \$7,830 | \$493,311 |
| 2010 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 68 | \$16,316 | \$1,109,484 |
| 2011 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 91 | \$11,888 | \$1,081,781 |
| 2012 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 83 | \$8,372 | \$694,900 |
| 2013 | 68 | \$12,064 | \$820,320 | 0 | | | 0 | | | 68 | \$12,064 | \$820,320 |
| 2014 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 95 | \$36,012 | \$3,421,096 |
| 2015 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 109 | \$8,929 | \$973,304 |
| 2016 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 86 | \$18,007 | \$1,548,638 |
| 2017 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 101 | \$19,211 | \$1,940,301 |
| 2018 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 96 | \$26,469 | \$2,540,998 |
| 2019 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 94 | \$18,852 | \$1,772,056 |
| 2020 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 0 | | | 69 | \$8,016 | \$553,092 |
| 2021 | confidential | confidential | confidential | 1 to 3 | confidential | confidential | 1 to 3 | confidential | confidential | 52 | \$6,877 | \$357,618 |

- Adjusted for inflation to 2022 dollars using U.S. Bureau of Labor Statistics Consumer Price Index.
- When fewer than four individuals in a cohort make landings, counts of participation and earnings are masked for both that cohort and at least one other cohort that year.
- Counts will differ from CFEC on-line Basic Information Tables where the on-line data does not account for the combination of interim-entry permits that were issued as permanent permits in the same year.
- Note that these counts are for individuals, not permits.