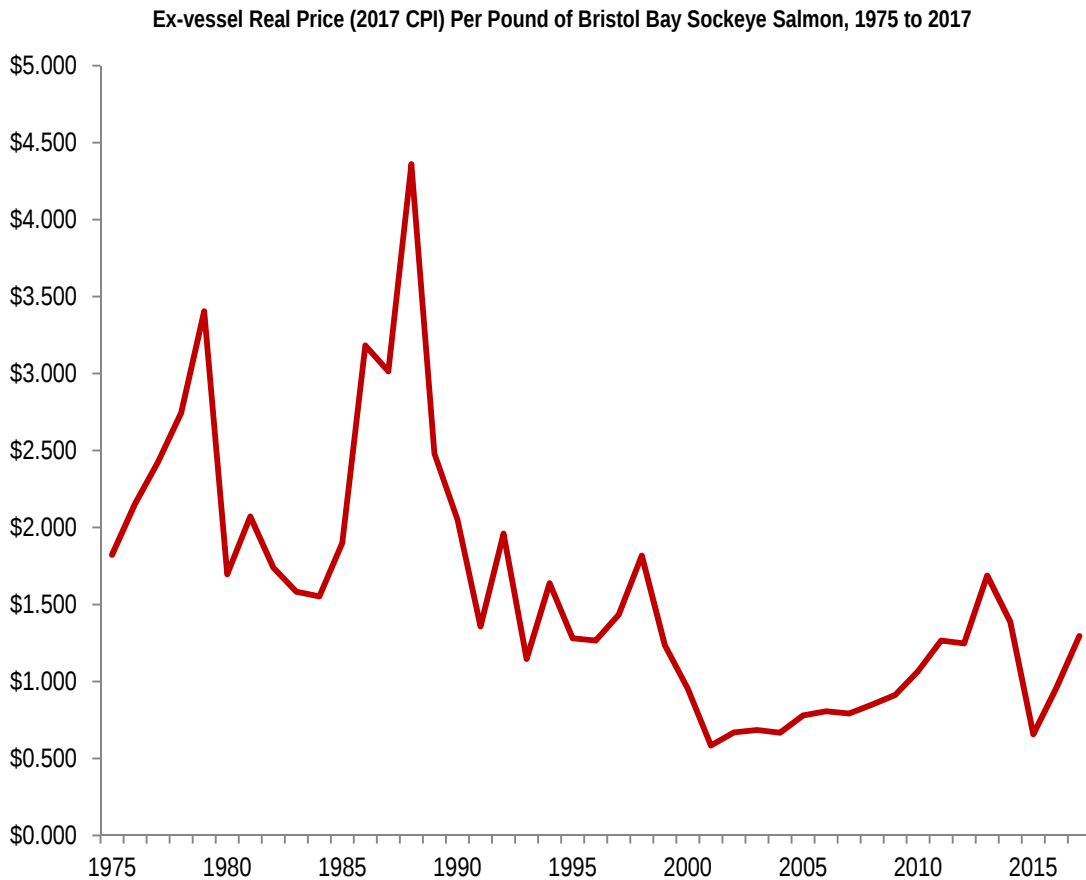


CFEC Permit Holdings and Estimates of Gross Earnings in the Bristol Bay Commercial Salmon Fisheries, 1975-2017



CFEC Report Number 18-7N,
November, 2018

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Abstract

Limited entry permit holdings in both of the Bristol Bay salmon fisheries are examined: the Bristol Bay salmon drift gillnet fishery is first, followed by a separate examination of the Bristol Bay salmon set gillnet fishery. 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, estimated gross earnings, vessel characteristics for the drift gillnet fishery, Department of Natural Resource shore fishery leases in the set gillnet fishery, permit stacking in the set gillnet fishery, as well as dual permit operations in the drift gillnet fishery. Some summary statistics are also presented by resident type. A description of the computer files and methods used to generate the statistics are provided.

The figure on the cover displays the real price per pound of sockeye salmon in Bristol Bay. The annual figure was calculated by aggregating all estimated ex-vessel value of sockeye salmon and dividing it by the total pounds of the same species, then adjusting the nominal value for inflation using the 2017 consumer price index as published by the U.S. Bureau of Labor Statistics.

Prepared by Marcus Gho

Acknowledgements

Special thanks to Craig Farrington and Daniel Strong for their insights and contributions to this document.

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Introduction

Commercial fishing for salmon in Bristol Bay has been documented as far back as 1884.¹ Historically, many gear types have been employed to commercially harvest salmon in Bristol Bay, but today the two commercial salmon fisheries prosecuted in this region of Alaska includes only the drift gillnet and set gillnet 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.

Both Bristol Bay salmon fisheries were part of the original group of 19 Alaska salmon fisheries that were limited after the Alaska legislature passed the limited entry act. Limited entry permits for Bristol Bay salmon drift gillnet (S03T) and Bristol Bay salmon set gillnet (S04T) were first issued in 1975.

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 Bristol Bay salmon permit fisheries, non-transferable permits were only issued in the set gillnet fishery. CFEC permits are cancelled after two years of non-payment of annual fees. This frequently occurs when the permit holder reaches an age when fishing is no longer feasible, or when the permit holder passes away.

Information regarding season length, openings and closings, size, 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 Bristol Bay 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 Bristol Bay from year to year and across each fishery. Commercial harvest of species other than salmon were documented at extremely low rates so they are not displayed in Table 0-1.

Table 0-1. Percent of Total Ex-vessel Value of Bristol Bay Salmon Fisheries by Species, 1975-2017

Species	Bristol Bay Drift Gillnet	Bristol Bay Salmon Set Gillnet
<i>Chinook</i>	1.4%	1.0%
<i>sockeye</i>	95.5%	95.6%
<i>coho</i>	0.7%	1.6%
<i>pink</i>	0.5%	0.5%
<i>chum</i>	1.9%	1.1%

¹ See Byerly, M., B. Brooks, B. Simonson, H. Savikko, and H.J. Geiger. *Alaska's Commercial Salmon Catches, 1878-1997*. RIR No. 5J99-05.

Description of the Data Files Used to Generate This Report

Several CFEC data files were used to generate the statistics in this report: the gross earnings file, the permit file, the census file, the vessel file, ADF&G vessel registration data, and a DNR shore fishery lease data file. The most recent 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 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. Starting in 2016, dual permit operations were identified using fish ticket identifiers.

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. Table 0-2 lists the communities that are currently designated as local to Bristol Bay salmon commercial fisheries in the Census file.

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

Aleknagik	Igiugig	Kvichak	Nunachuak	South Naknek
Cape Newenham	Igushik	Levelock	Nushagak	Togiak
Clarks Point	Iliamna	Manokotak	Pedro Bay	Twin Hills
Dillingham	Kashiagamiut	Nakeen	Pilot Point	Ugashik
Egegik	King Salmon	Naknek	Pope-Vannoy Ldg	Ungalikthluk
Ekuk	Koggiung	New Stuyahok	Port Alsworth	
Ekwok	Kokhanok	Newhalen	Port Heiden	
Hallersville	Koliganek	Nondalton	Portage Creek	

CFEC Vessel File

CFEC maintains a computer file of vessel registration data back to 1978. Commercial fishermen fill out a form and voluntarily provide data regarding the vessel they intend to use that fishing season.

ADF&G Bristol Bay Vessel Registration Data

Bristol Bay drift gillnet permit holders have registration requirements per 5 AAC 06.370 for much of the fishing season. These ADF&G registration records indicate if the permit holder is fishing by themselves, or jointly with another permit holder on the same vessel as a dual permit operation. The registration data for 2004 to 2015 was used to determine which permits were used in dual permit operations for what date. Because registration requirements do not fully encompass the entire fishing season in Bristol Bay, counts of dual permit operations may not be complete in every instance. Beginning in 2016, ADF&G fish tickets were changed to fully record dual permit operations. As such, ADF&G fish ticket data were used to determine which permits were used in dual permit operations starting in 2016.

DNR Shore Fishery Lease Data File

The DNR Land Administration System contains records used to maintain the DNR Shore Fishery Lease program. These records were merged with the CFEC permit file to create a dataset. Creation of the dataset is described in CFEC Report Number 18-4N, *CFEC Salmon Set Gillnet Permits and DNR Shore Fishery Leases in Prince William Sound, Cook Inlet, Kodiak, Alaska Peninsula, and Bristol Bay 1975-2017*.

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 Bristol Bay Salmon Drift Gillnet Fishery

S03T Permit Holdings

Limited entry permits for the Bristol Bay salmon drift gillnet fishery (S03T permits) were issued starting in 1975. CFEC has issued 1,875 S03T permits. Table 1-1 indicates the initial distribution and historical net changes in permit holdings for the fishery. Of this total, Alaska Locals received 38.0% (712/1,875) of the permits, Nonlocal Alaskans received 22.3% (418/1,875) of the permits, and Nonresidents received 39.7% (745/1,875). Every permit issued in this fishery was a transferable permit.

Table 1-1. Initial Issuance and Year-end 2017 Totals of Bristol Bay Salmon Drift Gillnet Permits, With Net Changes Due to Permit Transfers, Migrations, and Cancellations, by Resident Type

INITIAL ISSUE			TRANSFERS		MIGRATIONS		CANCELLED		2017 YEAR-END	
Residency	Total	Percent	Change	Percent Change from Initial	Change	Percent Change from Initial	Change	Percent Change from Initial	Total	Percent
Local	712	38.0%	-295	-41.4%	-74	-10.4%	-2	-0.3%	341	18.3%
Nonlocal	418	22.3%	146	34.9%	-67	-16.0%	-4	-1.0%	493	26.5%
Nonresident	745	39.7%	149	20.0%	141	18.9%	-6	-0.8%	1,029	55.2%
Total	1,875	100.0%	0	0.0%	0	0.0%	-12	-0.6%	1,863	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 S03T 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.² 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 Bristol Bay Salmon Drift Gillnet Permits, 1980-2017

Acquisition Method	Bristol Bay Salmon Drift Gillnet		Combined Bristol Bay Salmon		Statewide Salmon Drift Gillnet		All Fisheries Statewide	
	Count	Percent	Count	Percent	Count	Percent	Count	Percent
<i>Gift</i>	2,045	35.6%	3,831	41.2%	3,719	32.4%	13,825	36.5%
<i>Sale</i>	3,407	59.4%	5,030	54.1%	7,193	62.7%	22,262	58.8%
<i>Trade</i>	39	0.7%	65	0.7%	119	1.0%	520	1.4%
<i>Other</i>	248	4.3%	370	4.0%	432	3.8%	1,225	3.2%
Total	5,739		9,296		11,463		37,832	

Table 1-2 compares and contrasts transfer acquisition methods for the S03T permits, the combined Bristol Bay salmon permit types, statewide salmon drift gillnet permits, and all limited entry permits between 1980 and 2017. Just over a third of all S03T permit transfers were gifts (35.6% or 2,045/5,739), more than half of all transfers were sales (59.4%, or 3,407/5,739), and a smaller percentage were trades (0.7% or 39/5,739) or other (4.3% or 248/5,739). The annual acquisition methods for S03T permits can be viewed in a different publication.³

Table 1-3. Relationships of Transferor to Transfer Recipients for Bristol Bay Salmon Drift Gillnet Permits, 1980-2017

Relationship	Bristol Bay Salmon Drift Gillnet		Combined Bristol Bay Salmon		Statewide Salmon Drift Gillnet		All Fisheries Statewide	
	Count	Percent	Count	Percent	Count	Percent	Count	Percent
<i>Business Partner/Friend</i>	956	16.7%	1,744	18.8%	1,897	16.5%	6,992	18.5%
<i>Member of Immediate Family</i>	1,916	33.4%	3,359	36.1%	3,593	31.3%	12,802	33.8%
<i>Other Relative</i>	258	4.5%	506	5.4%	483	4.2%	1,743	4.6%
<i>Other</i>	2,609	45.5%	3,687	39.7%	5,490	47.9%	16,295	43.1%
Total	5,739		9,296		11,463		37,832	

Table 1-3 shows the relationships between transferors and transfer recipients for S03T permits, and compares S03T permit transfers with the combined Bristol Bay salmon permit types, statewide salmon drift gillnet permits, and all limited entry permits from 1980 to 2017. Transfers within the family, both immediate family members and other relatives, total 37.9% (2,174/5,739) of all transfers. This compares to 41.6% (3,865/9,296) for all Bristol Bay salmon permit types combined, 35.6% (4,076/11,463) for statewide salmon drift gillnet permits, and 38.4% (14,545/37,832) for all limited entry permits statewide.

² CFEC implemented the transfer survey in 1980.

³ See *Changes in the Distribution of Alaska's Commercial Fisheries Entry Permits, 1975-2017*, CFEC Report No. 18-2N.

Emergency Transfers of S03T Permits

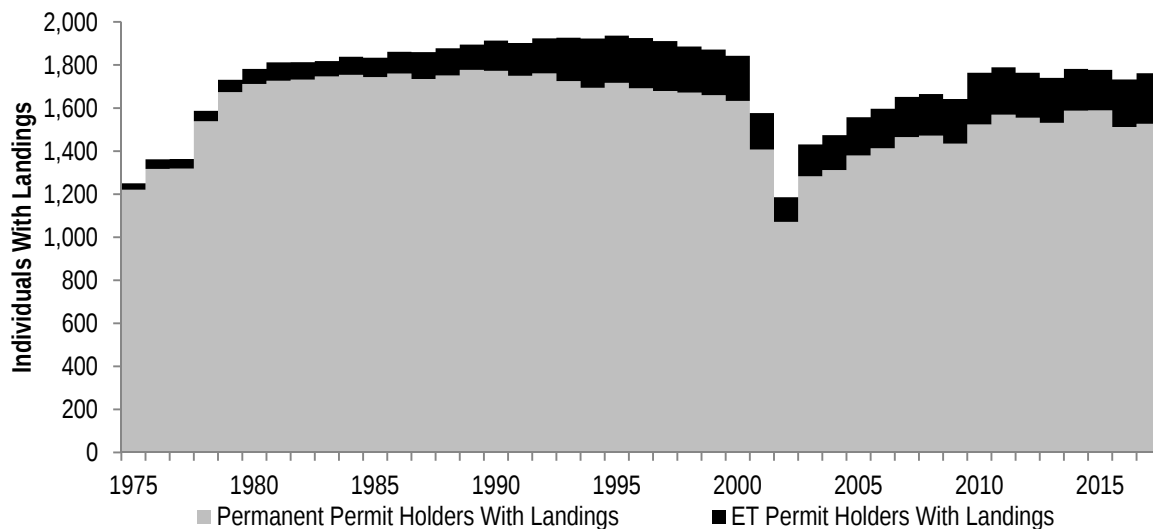
Commercial landings can be made with either permanently-held permits or with permits held temporarily through emergency transfers. Emergency transfers (ET) of permits are granted if illness, disability, death, required military or government service, or other unavoidable hardship of a temporary, unexpected, 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 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 Bristol Bay Salmon Drift Gillnet Fishery, 1975-2017

Year	Individuals With Landings	ET Permit Holders With Landings	Rate ET	Year	Individuals With Landings	ET Permit Holders With Landings	Rate ET	Year	Individuals With Landings	ET Permit Holders With Landings	Rate ET
1975	1,250	29	2.3%	1990	1,913	140	7.3%	2005	1,557	177	11.4%
1976	1,362	45	3.3%	1991	1,902	152	8.0%	2006	1,597	184	11.5%
1977	1,363	44	3.2%	1992	1,924	163	8.5%	2007	1,652	187	11.3%
1978	1,587	48	3.0%	1993	1,927	202	10.5%	2008	1,665	193	11.6%
1979	1,731	57	3.3%	1994	1,923	229	11.9%	2009	1,642	207	12.6%
1980	1,782	70	3.9%	1995	1,936	219	11.3%	2010	1,764	240	13.6%
1981	1,812	85	4.7%	1996	1,925	233	12.1%	2011	1,789	220	12.3%
1982	1,813	81	4.5%	1997	1,911	232	12.1%	2012	1,764	209	11.8%
1983	1,818	71	3.9%	1998	1,886	214	11.3%	2013	1,740	209	12.0%
1984	1,838	84	4.6%	1999	1,872	212	11.3%	2014	1,782	194	10.9%
1985	1,834	90	4.9%	2000	1,843	210	11.4%	2015	1,777	188	10.6%
1986	1,861	101	5.4%	2001	1,577	170	10.8%	2016	1,733	221	12.8%
1987	1,860	125	6.7%	2002	1,186	115	9.7%	2017	1,762	235	13.3%
1988	1,878	127	6.8%	2003	1,431	148	10.3%				
1989	1,895	118	6.2%	2004	1,474	162	11.0%				

Figure 1-1. Use of Emergency Transfer Permits in the Bristol Bay Salmon Drift Gillnet Fishery, 1975-2017



Latent S03T 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 1-5 indicates the total number of viable S03T permits issued each year, the number of permits fished (with commercial landings), and the rate of permit latency. Viable 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.

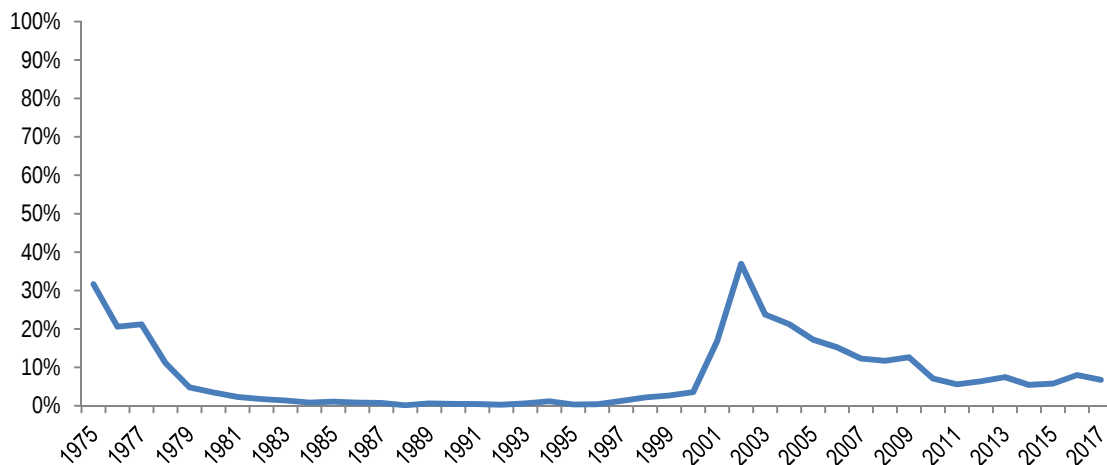
There are many reasons why an individual might not fish in any given year. This table and figure do not explain any of these reasons.

Table 1-5. Bristol Bay Salmon Drift Gillnet Permit Latency, 1975-2017

Permits				Permits				Permits			
Year	Issued	Fished	Latency Rate	Year	Issued	Fished	Latency Rate	Year	Issued	Fished	Latency Rate
1975	1,823	1,246	31.7%	1990	1,878	1,869	0.5%	2005	1,862	1,542	17.2%
1976	1,706	1,355	20.6%	1991	1,881	1,873	0.4%	2006	1,860	1,577	15.2%
1977	1,725	1,359	21.2%	1992	1,884	1,879	0.3%	2007	1,862	1,633	12.3%
1978	1,772	1,575	11.1%	1993	1,886	1,875	0.6%	2008	1,863	1,645	11.7%
1979	1,800	1,714	4.8%	1994	1,887	1,865	1.2%	2009	1,863	1,628	12.6%
1980	1,827	1,764	3.4%	1995	1,888	1,882	0.3%	2010	1,863	1,731	7.1%
1981	1,827	1,785	2.3%	1996	1,891	1,884	0.4%	2011	1,862	1,758	5.6%
1982	1,824	1,792	1.8%	1997	1,899	1,875	1.3%	2012	1,862	1,743	6.4%
1983	1,822	1,797	1.4%	1998	1,899	1,858	2.2%	2013	1,862	1,723	7.5%
1984	1,819	1,804	0.8%	1999	1,898	1,847	2.7%	2014	1,863	1,762	5.4%
1985	1,834	1,815	1.0%	2000	1,890	1,823	3.5%	2015	1,864	1,757	5.7%
1986	1,838	1,823	0.8%	2001	1,883	1,566	16.8%	2016	1,863	1,714	8.0%
1987	1,837	1,824	0.7%	2002	1,878	1,184	37.0%	2017	1,863	1,737	6.8%
1988	1,839	1,837	0.1%	2003	1,867	1,424	23.7%				
1989	1,867	1,855	0.6%	2004	1,860	1,465	21.2%				

- 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. Bristol Bay Salmon Drift Gillnet Permit Latency Rate, 1975-2017



New Entrants into the Bristol Bay Salmon Drift Gillnet Fishery

New entrants are defined herein as individuals who, for the first time, record a landing on a permanent S03T permit. It is important to note that initial permit holders are not considered new entrants because they needed a proven fishing history prior to 1975 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 Bristol Bay Salmon Drift Gillnet Fishery, 1975-2017

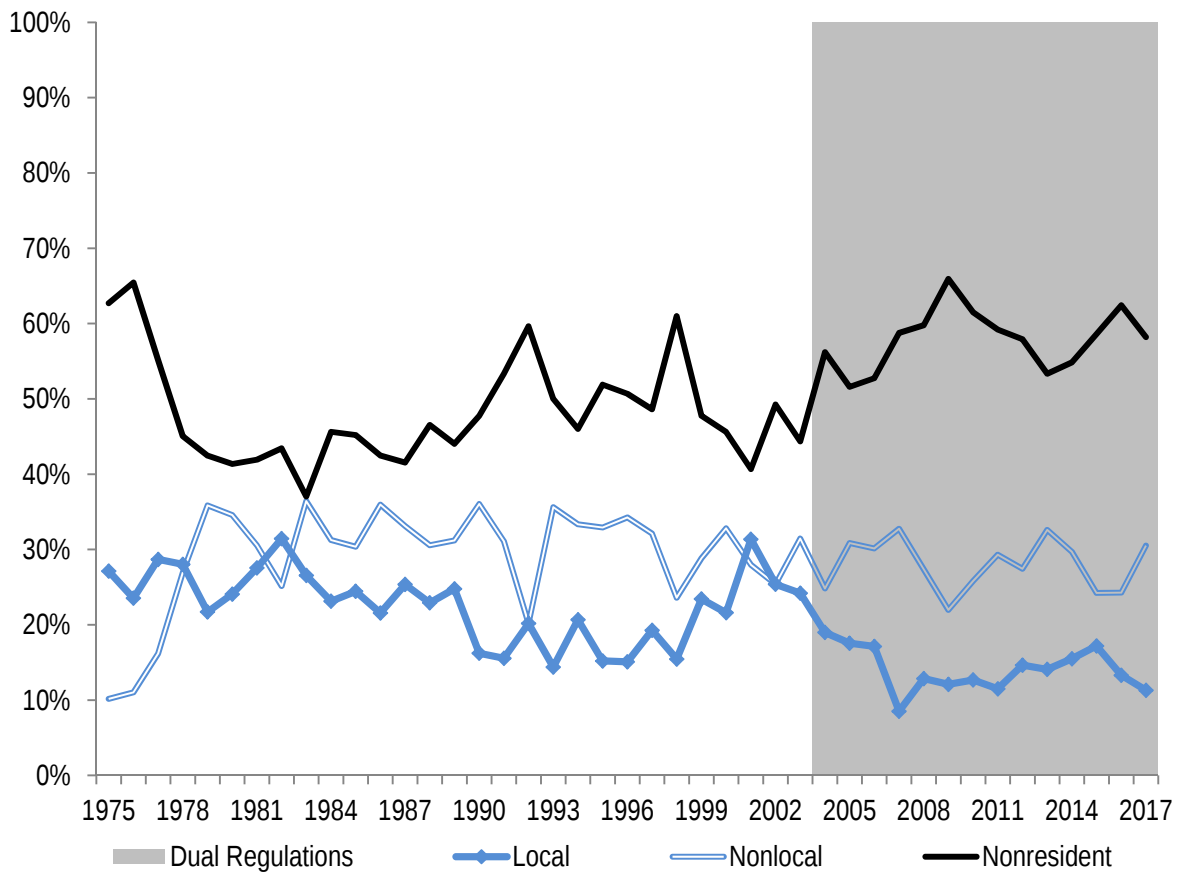
Year	Individuals w/Landings	Total New Entrants		Local		Nonlocal		Nonresident	
		Count	Percent	Count	Percent	Count	Percent	Count	Percent
1975	1,102	59	5.4%	16	27.1%	6	10.2%	37	62.7%
1976	1,313	136	10.4%	32	23.5%	15	11.0%	89	65.4%
1977	1,325	136	10.3%	39	28.7%	22	16.2%	75	55.1%
1978	1,528	182	11.9%	51	28.0%	49	26.9%	82	45.1%
1979	1,656	212	12.8%	46	21.7%	76	35.8%	90	42.5%
1980	1,677	162	9.7%	39	24.1%	56	34.6%	67	41.4%
1981	1,709	167	9.8%	46	27.5%	51	30.5%	70	41.9%
1982	1,716	175	10.2%	55	31.4%	44	25.1%	76	43.4%
1983	1,728	162	9.4%	43	26.5%	59	36.4%	60	37.0%
1984	1,748	160	9.2%	37	23.1%	50	31.3%	73	45.6%
1985	1,742	135	7.7%	33	24.4%	41	30.4%	61	45.2%
1986	1,760	153	8.7%	33	21.6%	55	35.9%	65	42.5%
1987	1,766	142	8.0%	36	25.4%	47	33.1%	59	41.5%
1988	1,783	144	8.1%	33	22.9%	44	30.6%	67	46.5%
1989	1,798	109	6.1%	27	24.8%	34	31.2%	48	44.0%
1990	1,817	111	6.1%	18	16.2%	40	36.0%	53	47.7%
1991	1,814	135	7.4%	21	15.6%	42	31.1%	72	53.3%
1992	1,827	114	6.2%	23	20.2%	23	20.2%	68	59.6%
1993	1,839	146	7.9%	21	14.4%	52	35.6%	73	50.0%
1994	1,837	150	8.2%	31	20.7%	50	33.3%	69	46.0%
1995	1,853	158	8.5%	24	15.2%	52	32.9%	82	51.9%
1996	1,852	146	7.9%	22	15.1%	50	34.2%	74	50.7%
1997	1,838	109	5.9%	21	19.3%	35	32.1%	53	48.6%
1998	1,831	123	6.7%	19	15.4%	29	23.6%	75	61.0%
1999	1,824	111	6.1%	26	23.4%	32	28.8%	53	47.7%
2000	1,812	125	6.9%	27	21.6%	41	32.8%	57	45.6%
2001	1,559	118	7.6%	37	31.4%	33	28.0%	48	40.7%
2002	1,178	67	5.7%	17	25.4%	17	25.4%	33	49.3%
2003	1,425	124	8.7%	30	24.2%	39	31.5%	55	44.4%
2004	1,471	137	9.3%	26	19.0%	34	24.8%	77	56.2%
2005	1,554	188	12.1%	33	17.6%	58	30.9%	97	51.6%
2006	1,597	146	9.1%	25	17.1%	44	30.1%	77	52.7%
2007	1,652	223	13.5%	19	8.5%	73	32.7%	131	58.7%
2008	1,665	179	10.8%	23	12.8%	49	27.4%	107	59.8%
2009	1,642	182	11.1%	22	12.1%	40	22.0%	120	65.9%
2010	1,764	213	12.1%	27	12.7%	55	25.8%	131	61.5%
2011	1,789	174	9.7%	20	11.5%	51	29.3%	103	59.2%
2012	1,764	164	9.3%	24	14.6%	45	27.4%	95	57.9%
2013	1,740	135	7.8%	19	14.1%	44	32.6%	72	53.3%
2014	1,782	155	8.7%	24	15.5%	46	29.7%	85	54.8%
2015	1,777	128	7.2%	22	17.2%	31	24.2%	75	58.6%
2016	1,733	173	10.0%	23	13.3%	42	24.3%	108	62.4%
2017	1,762	177	10.0%	20	11.3%	54	30.5%	103	58.2%

- This table excludes individuals with interim-entry and emergency transfer permits.
- Regulations were passed in 2004 allowing for dual permit operations (indicated by line).

Table 1-6 and Figure 1-3 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 S03T permit one year, and then in subsequent years hold a different S03T 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 on a permanent permit.

The Alaska Board of Fisheries implemented regulations⁴ in 2004 that allows for dual permit operations in Bristol Bay. With the implementation of this regulation, there was a change in the composition of resident types entering the fishery. Prior to dual permit regulations (1975 to 2003), 22.7% of all new entrants were locals, 29.8% were nonlocals, and 47.4% were nonresidents. After dual permit regulations were put in place (2004 to 2017), 13.8% of new entrants have been locals, 28.1% nonlocals, and 58.2% were nonresidents.

Figure 1-3. Rate of New Entrants into the Bristol Bay Salmon Drift Gillnet Fishery, 1975-2017



⁴ See 5 AAC 06.333 and 5 AAC 06.370.

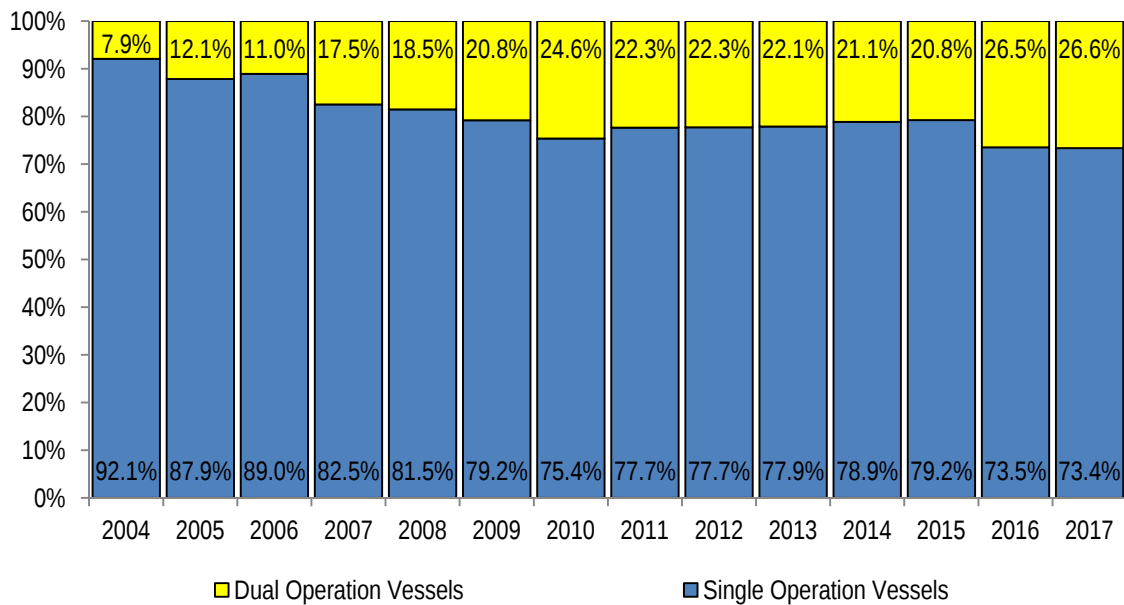
S03T Dual Permit Operations

The Alaska Board of Fisheries enacted 5 AAC 06.333 and 5 AAC 06.370, which allows for two Bristol Bay salmon drift gillnet permit holders to fish from a single vessel starting in 2004.

Note that the tables and figure in this section are for vessels (Figure 1-4 and Table 1-7), permits (Table 1-8) or individuals (Table 1-9 and Table 1-10). Vessels can be used by one or more permit holder. Permits can be transferred (either through ET or permanent transfer) to more than one person in any given year. Counts of permits, individuals, or vessels will not perfectly match on any given year.

Figure 1-4 reports the percentage of vessels that fished as part of a dual operation at least once during the season, as well as all other vessels which are counted as single permit operation vessels.

Figure 1-4. Bristol Bay Drift Gillnet Vessel Operation Type, 2004 – 2017



In 2004, only 7.9% of all vessels fished in a dual permit operation configuration. Since 2009, the rate of vessels fishing as dual permit operations has fluctuated between 20.8% and 26.6%.

Vessels that operate in a dual configuration are allowed to deploy up to 200 fathoms of gear, which is an increase of 33.3% additional length of gear from 150 fathoms. Table 1-7 reports on the earnings by vessel for single permit operations and for dual permit operations. Vessels that recorded at least one landing as a dual permit operation are counted as a dual vessel for the entire year, and all other vessels are counted as single permit vessels in this table.

Table 1-7. Earnings by Vessel and Operation Type, 2004 – 2017

Year	Single Permit Operations		Dual Permit Operations		Dual % Earnings Over Single
	Vessels	Average Earnings	Vessels	Average Earnings	
2004	1,258	\$58,921	108	\$102,697	74.3%
2005	1,215	\$68,240	168	\$108,324	58.7%
2006	1,288	\$73,707	160	\$136,670	85.4%
2007	1,154	\$73,930	244	\$125,720	70.1%
2008	1,135	\$72,082	258	\$124,787	73.1%
2009	1,070	\$88,392	281	\$159,496	80.4%
2010	1,056	\$89,820	345	\$162,132	80.5%
2011	1,120	\$83,981	322	\$153,115	82.3%
2012	1,111	\$75,379	318	\$132,596	75.9%
2013	1,096	\$79,824	311	\$150,064	88.0%
2014	1,154	\$109,791	309	\$200,383	82.5%
2015	1,168	\$61,227	306	\$120,118	96.2%
2016	1,008	\$95,225	363	\$180,194	89.2%
2017	1,017	\$130,661	369	\$253,607	94.1%

Table 1-8 shows the use of either permanently transferred permits, or temporary emergency transfer permits used in dual permit operations. When a permit was used as an emergency transfer permit and subsequently permanently transferred to the permit holder, the permit was counted as being used as a permanent permit. Due to the transferability of permits and regrouping of some dual permit operations, counts of dual permit operations will not always match with counts of permit holders.

Table 1-8. Use of Emergency Transfer Permits in Dual Permit Operations

Year	Both Permanent	One Permanent and One ET	Both ET
2004	117	44	0
2005	178	44	3
2006	169	43	2
2007	250	63	5
2008	258	74	5
2009	290	75	3
2010	354	97	1
2011	334	70	1
2012	328	76	4
2013	316	60	2
2014	315	44	4
2015	309	48	3
2016	271	92	8
2017	259	112	4

Table 1-9 reports on the residency type combinations of dual permit holders with landings. Note that permit holders can regroup, thereby increasing the count of total combinations of dual permit operations. This means that if person A fishes with person B, then later person A fishes with person C, both combinations of person A and B are counted as well as the combination A and C.

Table 1-9. Residence Type of Individuals in Dual Permit Operations

Year	Both Local		Both Nonlocal		Both Nonresident		Local/Nonlocal		Local/Nonresident		Nonlocal/Nonresident		Total Combinations
	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	
2004	19	16.8%	18	15.9%	57	50.4%	3	2.7%	2	1.8%	14	12.4%	113
2005	22	12.6%	32	18.4%	88	50.6%	8	4.6%	3	1.7%	21	12.1%	174
2006	26	15.4%	30	17.8%	84	49.7%	9	5.3%	3	1.8%	17	10.1%	169
2007	29	11.5%	51	20.2%	134	53.0%	5	2.0%	3	1.2%	31	12.3%	253
2008	24	9.0%	54	20.2%	134	50.2%	7	2.6%	5	1.9%	43	16.1%	267
2009	21	7.3%	42	14.6%	164	57.1%	6	2.1%	11	3.8%	43	15.0%	287
2010	32	8.9%	52	14.5%	208	58.1%	14	3.9%	7	2.0%	45	12.6%	358
2011	25	7.5%	59	17.6%	191	57.0%	12	3.6%	6	1.8%	42	12.5%	335
2012	26	7.9%	48	14.5%	191	57.9%	8	2.4%	7	2.1%	50	15.2%	330
2013	16	5.1%	55	17.5%	187	59.4%	9	2.9%	3	1.0%	45	14.3%	315
2014	21	6.7%	49	15.6%	190	60.3%	6	1.9%	6	1.9%	43	13.7%	315
2015	23	7.4%	50	16.0%	196	62.8%	6	1.9%	2	0.6%	35	11.2%	312
2016	31	8.4%	65	17.5%	222	59.8%	13	3.5%	7	1.9%	33	8.9%	371
2017	32	8.5%	61	16.3%	226	60.3%	9	2.4%	11	2.9%	36	9.6%	375

Table 1-10 reports earnings by residency type of permit holders and their operation type. Individuals that participated at any time in a dual permit operation are categorized in the dual permit operation group. Note that earnings are averaged by individual, not permit.

Table 1-10. Real (2017) Earnings of S03T Permit Holders by Resident and Operation Type

Year	Residency	Operation Type	Permit Holders with Landings	Total Gross Earnings	Average Gross Earnings	Percent of Permit Holders with Landings	Percent of Total Gross Earnings
2004	Local	Dual	40	\$1,115,017	\$27,875	2.7%	1.3%
		Single	316	\$12,979,107	\$41,073	21.4%	15.2%
		Combined	356	\$14,094,123	\$39,590	24.2%	16.5%
	Nonlocal	Dual	52	\$2,830,706	\$54,437	3.5%	3.3%
		Single	291	\$17,112,811	\$58,807	19.7%	20.1%
		Combined	343	\$19,943,516	\$58,144	23.3%	23.4%
	Nonresident	Dual	129	\$7,174,374	\$55,615	8.8%	8.4%
		Single	646	\$44,002,080	\$68,115	43.8%	51.6%
		Combined	775	\$51,176,454	\$66,034	52.6%	60.1%
	Total	Dual	221	\$11,120,096	\$50,317	15.0%	13.0%
		Single	1,253	\$74,093,998	\$59,133	85.0%	87.0%
		Combined	1,474	\$85,214,094	\$57,811	100.0%	100.0%
2005	Local	Dual	52	\$2,124,939	\$40,864	3.3%	2.1%
		Single	312	\$14,697,873	\$47,109	20.0%	14.5%
		Combined	364	\$16,822,812	\$46,217	23.4%	16.6%
	Nonlocal	Dual	92	\$4,876,939	\$53,010	5.9%	4.8%
		Single	278	\$17,847,413	\$64,199	17.9%	17.7%
		Combined	370	\$22,724,352	\$61,417	23.8%	22.5%
	Nonresident	Dual	198	\$11,169,806	\$56,413	12.7%	11.0%
		Single	625	\$50,392,613	\$80,628	40.1%	49.8%
		Combined	823	\$61,562,419	\$74,802	52.9%	60.9%
	Total	Dual	342	\$18,171,683	\$53,134	22.0%	18.0%
		Single	1,215	\$82,937,900	\$68,262	78.0%	82.0%
		Combined	1,557	\$101,109,583	\$64,939	100.0%	100.0%

Table 1-10. Real (2017) Earnings of S03T Permit Holders by Resident and Operation Type

Year	Residency	Operation Type	Permit Holders with Landings	Total Gross Earnings	Average Gross Earnings	Percent of Permit Holders with Landings	Percent of Total Gross Earnings
2006	Local	Dual	60	\$2,396,999	\$39,950	3.8%	2.1%
		Single	303	\$16,154,743	\$53,316	19.0%	13.8%
		Combined	363	\$18,551,742	\$51,107	22.7%	15.9%
	Nonlocal	Dual	83	\$6,407,340	\$77,197	5.2%	5.5%
		Single	303	\$22,480,723	\$74,194	19.0%	19.2%
		Combined	386	\$28,888,063	\$74,840	24.2%	24.7%
	Nonresident	Dual	186	\$13,105,345	\$70,459	11.6%	11.2%
		Single	662	\$56,256,517	\$84,980	41.5%	48.2%
		Combined	848	\$69,361,862	\$81,795	53.1%	59.4%
	Total	Dual	329	\$21,909,684	\$66,595	20.6%	18.8%
		Single	1,268	\$94,891,983	\$74,836	79.4%	81.2%
		Combined	1,597	\$116,801,667	\$73,138	100.0%	100.0%
2007	Local	Dual	64	\$2,342,218	\$36,597	3.9%	2.0%
		Single	280	\$15,346,320	\$54,808	16.9%	13.2%
		Combined	344	\$17,688,538	\$51,420	20.8%	15.2%
	Nonlocal	Dual	135	\$8,686,481	\$64,344	8.2%	7.5%
		Single	277	\$19,601,239	\$70,763	16.8%	16.9%
		Combined	412	\$28,287,720	\$68,660	24.9%	24.4%
	Nonresident	Dual	298	\$19,717,106	\$66,165	18.0%	17.0%
		Single	598	\$50,297,922	\$84,110	36.2%	43.4%
		Combined	896	\$70,015,029	\$78,142	54.2%	60.4%
	Total	Dual	497	\$30,745,806	\$61,863	30.1%	26.5%
		Single	1,155	\$85,245,481	\$73,806	69.9%	73.5%
		Combined	1,652	\$115,991,286	\$70,213	100.0%	100.0%
2008	Local	Dual	59	\$2,533,684	\$42,944	3.5%	2.2%
		Single	282	\$13,510,742	\$47,910	16.9%	11.9%
		Combined	341	\$16,044,425	\$47,051	20.5%	14.1%
	Nonlocal	Dual	153	\$9,317,858	\$60,901	9.2%	8.2%
		Single	275	\$18,638,561	\$67,777	16.5%	16.3%
		Combined	428	\$27,956,419	\$65,319	25.7%	24.5%
	Nonresident	Dual	313	\$20,343,468	\$64,995	18.8%	17.8%
		Single	583	\$49,663,589	\$85,186	35.0%	43.6%
		Combined	896	\$70,007,057	\$78,133	53.8%	61.4%
	Total	Dual	525	\$32,195,010	\$61,324	31.5%	28.2%
		Single	1,140	\$81,812,891	\$71,766	68.5%	71.8%
		Combined	1,665	\$114,007,901	\$68,473	100.0%	100.0%
2009	Local	Dual	58	\$3,506,436	\$60,456	3.5%	2.5%
		Single	248	\$14,418,901	\$58,141	15.1%	10.3%
		Combined	306	\$17,925,337	\$58,580	18.6%	12.9%
	Nonlocal	Dual	133	\$10,685,785	\$80,344	8.1%	7.7%
		Single	253	\$21,404,007	\$84,601	15.4%	15.4%
		Combined	386	\$32,089,792	\$83,134	23.5%	23.0%
	Nonresident	Dual	377	\$30,635,738	\$81,262	23.0%	22.0%
		Single	573	\$58,747,287	\$102,526	34.9%	42.1%
		Combined	950	\$89,383,025	\$94,087	57.9%	64.1%
	Total	Dual	568	\$44,827,959	\$78,922	34.6%	32.2%
		Single	1,074	\$94,570,195	\$88,054	65.4%	67.8%
		Combined	1,642	\$139,398,154	\$84,895	100.0%	100.0%

Table 1-10. Real (2017) Earnings of S03T Permit Holders by Resident and Operation Type

Year	Residency	Operation Type	Permit Holders with Landings	Total Gross Earnings	Average Gross Earnings	Percent of Permit Holders with Landings	Percent of Total Gross Earnings
2010	Local	Dual	83	\$5,126,223	\$61,762	4.7%	3.4%
		Single	242	\$15,284,790	\$63,160	13.7%	10.1%
		Combined	325	\$20,411,013	\$62,803	18.4%	13.5%
	Nonlocal	Dual	162	\$12,924,348	\$79,780	9.2%	8.6%
		Single	267	\$23,178,070	\$86,809	15.1%	15.4%
		Combined	429	\$36,102,418	\$84,155	24.3%	23.9%
	Nonresident	Dual	458	\$37,955,699	\$82,873	26.0%	25.2%
		Single	552	\$56,315,996	\$102,022	31.3%	37.3%
		Combined	1,010	\$94,271,695	\$93,338	57.3%	62.5%
	Total	Dual	703	\$56,006,271	\$79,668	39.9%	37.1%
		Single	1,061	\$94,778,856	\$89,330	60.1%	62.9%
		Combined	1,764	\$150,785,127	\$85,479	100.0%	100.0%
2011	Local	Dual	65	\$3,174,174	\$48,833	3.6%	2.2%
		Single	267	\$15,108,187	\$56,585	14.9%	10.5%
		Combined	332	\$18,282,362	\$55,067	18.6%	12.8%
	Nonlocal	Dual	168	\$12,513,210	\$74,483	9.4%	8.7%
		Single	275	\$21,535,446	\$78,311	15.4%	15.0%
		Combined	443	\$34,048,656	\$76,859	24.8%	23.8%
	Nonresident	Dual	424	\$33,578,750	\$79,195	23.7%	23.4%
		Single	590	\$57,452,035	\$97,376	33.0%	40.1%
		Combined	1,014	\$91,030,785	\$89,774	56.7%	63.5%
	Total	Dual	657	\$49,266,134	\$74,987	36.7%	34.4%
		Single	1,132	\$94,095,668	\$83,123	63.3%	65.6%
		Combined	1,789	\$143,361,802	\$80,135	100.0%	100.0%
2012	Local	Dual	64	\$2,491,830	\$38,935	3.6%	2.0%
		Single	262	\$12,975,563	\$49,525	14.9%	10.3%
		Combined	326	\$15,467,393	\$47,446	18.5%	12.3%
	Nonlocal	Dual	153	\$9,861,594	\$64,455	8.7%	7.8%
		Single	279	\$19,772,709	\$70,870	15.8%	15.7%
		Combined	432	\$29,634,304	\$68,598	24.5%	23.5%
	Nonresident	Dual	431	\$30,177,424	\$70,017	24.4%	24.0%
		Single	575	\$50,632,238	\$88,056	32.6%	40.2%
		Combined	1,006	\$80,809,663	\$80,328	57.0%	64.2%
	Total	Dual	648	\$42,530,849	\$65,634	36.7%	33.8%
		Single	1,116	\$83,380,511	\$74,714	63.3%	66.2%
		Combined	1,764	\$125,911,359	\$71,378	100.0%	100.0%
2013	Local	Dual	42	\$2,409,018	\$57,358	2.4%	1.8%
		Single	275	\$14,475,088	\$52,637	15.8%	10.8%
		Combined	317	\$16,884,106	\$53,262	18.2%	12.6%
	Nonlocal	Dual	163	\$10,882,414	\$66,763	9.4%	8.1%
		Single	285	\$22,457,692	\$78,799	16.4%	16.7%
		Combined	448	\$33,340,106	\$74,420	25.7%	24.9%
	Nonresident	Dual	420	\$33,490,929	\$79,740	24.1%	25.0%
		Single	555	\$50,441,830	\$90,886	31.9%	37.6%
		Combined	975	\$83,932,759	\$86,085	56.0%	62.6%
	Total	Dual	625	\$46,782,361	\$74,852	35.9%	34.9%
		Single	1,115	\$87,374,610	\$78,363	64.1%	65.1%
		Combined	1,740	\$134,156,971	\$77,102	100.0%	100.0%

Table 1-10. Real (2017) Earnings of S03T Permit Holders by Resident and Operation Type

Year	Residency	Operation Type	Permit Holders with Landings	Total Gross Earnings	Average Gross Earnings	Percent of Permit Holders with Landings	Percent of Total Gross Earnings
2014	Local	Dual	54	\$3,558,409	\$65,896	3.0%	1.9%
		Single	268	\$18,431,567	\$68,775	15.0%	9.8%
		Combined	322	\$21,989,976	\$68,292	18.1%	11.7%
	Nonlocal	Dual	144	\$15,096,660	\$104,838	8.1%	8.0%
		Single	322	\$34,377,033	\$106,761	18.1%	18.2%
		Combined	466	\$49,473,693	\$106,167	26.2%	26.2%
	Nonresident	Dual	423	\$43,273,436	\$102,301	23.7%	22.9%
		Single	571	\$73,879,615	\$129,386	32.0%	39.2%
		Combined	994	\$117,153,050	\$117,860	55.8%	62.1%
	Total	Dual	621	\$61,928,504	\$99,724	34.8%	32.8%
		Single	1,161	\$126,688,215	\$109,120	65.2%	67.2%
		Combined	1,782	\$188,616,719	\$105,846	100.0%	100.0%
2015	Local	Dual	54	\$2,273,214	\$42,097	3.0%	2.1%
		Single	257	\$9,704,510	\$37,761	14.5%	9.0%
		Combined	311	\$11,977,724	\$38,514	17.5%	11.1%
	Nonlocal	Dual	138	\$8,394,069	\$60,827	7.8%	7.8%
		Single	309	\$19,329,789	\$62,556	17.4%	17.9%
		Combined	447	\$27,723,858	\$62,022	25.2%	25.6%
	Nonresident	Dual	422	\$26,336,062	\$62,408	23.7%	24.3%
		Single	597	\$42,232,043	\$70,740	33.6%	39.0%
		Combined	1,019	\$68,568,104	\$67,290	57.3%	63.3%
	Total	Dual	614	\$37,003,345	\$60,266	34.6%	34.2%
		Single	1,163	\$71,266,342	\$61,278	65.4%	65.8%
		Combined	1,777	\$108,269,687	\$60,928	100.0%	100.0%
2016	Local	Dual	57	\$4,397,214	\$77,144	3.3%	2.7%
		Single	240	\$13,463,342	\$56,097	13.8%	8.3%
		Combined	297	\$17,860,556	\$60,137	17.1%	11.1%
	Nonlocal	Dual	133	\$15,779,977	\$118,646	7.7%	9.8%
		Single	303	\$26,909,843	\$88,811	17.5%	16.7%
		Combined	436	\$42,689,820	\$97,912	25.2%	26.5%
	Nonresident	Dual	337	\$45,170,536	\$134,037	19.4%	28.0%
		Single	663	\$55,676,592	\$83,977	38.3%	34.5%
		Combined	1,000	\$100,847,128	\$100,847	57.7%	62.5%
	Total	Dual	527	\$65,347,727	\$123,999	30.4%	40.5%
		Single	1,206	\$96,049,777	\$79,643	69.6%	59.5%
		Combined	1,733	\$161,397,504	\$93,132	100.0%	100.0%
2017	Local	Dual	62	\$7,386,630	\$119,139	3.5%	3.3%
		Single	243	\$17,722,380	\$72,932	13.8%	7.8%
		Combined	305	\$25,109,010	\$82,325	17.3%	11.1%
	Nonlocal	Dual	118	\$21,217,260	\$179,807	6.7%	9.4%
		Single	336	\$39,934,976	\$118,854	19.1%	17.6%
		Combined	454	\$61,152,237	\$134,697	25.8%	27.0%
	Nonresident	Dual	339	\$64,971,097	\$191,655	19.2%	28.7%
		Single	664	\$75,230,521	\$113,299	37.7%	33.2%
		Combined	1,003	\$140,201,618	\$139,782	56.9%	61.9%
	Total	Dual	519	\$93,574,987	\$180,299	29.5%	41.3%
		Single	1,243	\$132,887,878	\$106,909	70.5%	58.7%
		Combined	1,762	\$226,462,865	\$128,526	100.0%	100.0%

Age of S03T Permit Holders

Table 1-11. Mean Age of Select CFEC Permit Holders and the General Alaskan Population

Year	S03T	Combined Bristol Bay Salmon	Statewide Salmon Drift Gillnet	Statewide All Permits	Mean AK Working Age
1980	42.9	40.1	42.1	38.9	33.4
1981	42.8	40.0	41.9	39.9	33.5
1982	42.2	39.8	41.4	40.0	33.6
1983	42.1	39.8	41.4	40.2	33.7
1984	42.3	40.2	41.7	40.4	33.8
1985	42.6	40.6	41.9	40.8	34.0
1986	42.9	40.8	42.0	41.0	34.2
1987	43.2	41.2	42.3	40.9	34.5
1988	43.3	41.4	42.6	41.2	34.9
1989	43.7	42.0	42.8	41.5	35.3
1990	44.2	42.5	43.2	42.0	35.5
1991	44.6	42.9	43.7	42.5	35.9
1992	44.9	43.2	44.2	42.9	36.2
1993	45.3	43.7	44.7	43.5	36.5
1994	45.7	44.1	45.1	44.0	36.7
1995	45.8	44.4	45.3	44.4	37.0
1996	46.1	44.6	45.5	44.8	37.2
1997	46.6	45.0	46.0	45.1	37.4
1998	46.7	45.3	46.2	45.6	37.6
1999	47.2	45.7	46.7	46.0	37.8
2000	47.7	46.0	47.1	46.4	37.9
2001	48.0	46.3	47.6	46.9	38.1
2002	48.6	47.0	48.2	47.4	38.3
2003	48.8	47.2	48.5	47.9	38.4
2004	48.9	47.2	48.7	48.2	38.6
2005	48.5	46.7	48.5	48.4	38.7
2006	48.6	46.6	48.6	48.7	38.8
2007	47.7	46.3	48.3	48.9	38.9
2008	47.8	46.4	48.4	49.0	39.0
2009	47.8	46.4	48.4	49.3	39.1
2010	47.5	46.3	48.1	49.5	39.2
2011	47.7	46.6	48.0	49.6	39.4
2012	47.6	46.7	47.8	49.8	39.4
2013	47.5	46.4	47.7	50.0	39.5
2014	47.6	46.5	47.8	50.2	39.5
2015	47.9	46.8	48.1	50.6	39.5
2016	48.1	47.2	48.4	50.9	39.6
2017	48.1	47.3	48.7	51.3	39.6

- 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 1-11 shows the annual mean age of five different cohorts of people: 1) Bristol Bay salmon drift gillnet (S03T) permit holders; 2) combined Bristol Bay salmon permit holders; 3) statewide salmon drift gillnet permit holders 4) all CFEC limited entry permit holders; and 5) 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 S03T 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 6.1 years between 1980 and 2017, which represents an 18.4% increase. The percent change in ages over the same period for all CFEC permit holders was 31.7% (12.4 years), 15.5% (6.5 years) for the statewide salmon drift gillnet permit holders, and 18.1% (7.3 years) for the combined Bristol Bay salmon permit holders.

For S03T permit holders, the mean age increased 11.9% (5.1 years).

S03T Permit Value

Many permit transfers are non-monetary transactions (see Table 1-2). Table 1-12 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 1-12. CFEC Estimated Value of Bristol Bay Salmon Drift Gillnet Permits

Year	S03T Permit Sales	Nominal Permit Value	Standard Deviation	Real Permit Value	Standard Deviation
1982	114	\$95,936	-	\$243,687	-
1983	101	\$98,923	-	\$243,454	-
1984	88	\$116,905	-	\$275,801	-
1985	89	\$117,983	-	\$268,773	-
1986	97	\$124,605	-	\$278,679	-
1987	80	\$130,137	-	\$280,803	-
1988	75	\$173,406	-	\$359,301	-
1989	48	\$248,802	-	\$491,825	-
1990	61	\$216,033	-	\$405,157	-
1991	58	\$207,800	\$26,150	\$373,979	\$47,062
1992	62	\$193,000	\$29,000	\$337,193	\$50,666
1993	61	\$199,600	\$20,500	\$338,588	\$34,775
1994	76	\$165,700	\$19,850	\$274,065	\$32,832
1995	83	\$195,000	\$22,900	\$313,638	\$36,832
1996	64	\$171,800	\$11,950	\$268,398	\$18,669
1997	63	\$153,800	\$23,850	\$234,888	\$36,424
1998	68	\$99,500	\$14,800	\$149,628	\$22,256
1999	51	\$89,700	\$10,100	\$131,976	\$14,860
2000	64	\$80,500	\$15,100	\$114,589	\$21,494
2001	73	\$34,700	\$11,250	\$48,027	\$15,571
2002	90	\$19,700	\$3,000	\$26,842	\$4,088
2003	116	\$29,300	\$4,550	\$39,033	\$6,061
2004	85	\$37,000	\$4,400	\$48,012	\$5,710
2005	142	\$51,200	\$9,250	\$64,261	\$11,610
2006	99	\$75,000	\$5,850	\$91,190	\$7,113
2007	147	\$79,400	\$5,000	\$93,867	\$5,911
2008	88	\$89,800	\$5,550	\$102,236	\$6,319
2009	101	\$78,300	\$6,500	\$89,462	\$7,427
2010	127	\$102,100	\$15,350	\$114,772	\$17,255
2011	85	\$143,900	\$15,600	\$156,810	\$17,000
2012	80	\$110,800	\$12,350	\$118,293	\$13,185
2013	86	\$100,400	\$13,950	\$105,642	\$14,678
2014	75	\$149,500	\$11,150	\$154,795	\$11,545
2015	53	\$148,200	\$22,200	\$153,267	\$22,959
2016	64	\$109,300	\$13,200	\$111,628	\$13,481
2017	76	\$133,300	\$6,050	\$133,300	\$6,050

- 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.
- The Standard Deviation was not calculated prior to 1991.
- Real permit values were calculated using the 2017 Consumer Price Index from the U.S. Bureau of Labor Statistics.

Bristol Bay Salmon Drift Gillnet Vessel Characteristics

Table 1-13 reports on various vessel characteristics of the Bristol Bay salmon drift gillnet fleet since 1978. Reported in this table are the age, length, horsepower, hold refrigeration, and hold capacity. This data is from the vessel license file which includes voluntarily supplied information on vessels. The first column of each category is the count of vessels with the described characteristics; other statistics reported include the 25th percentile, median, and 75th percentile.

Table 1-13. Bristol Bay Salmon Drift Gillnet Vessel Characteristics

Year	Vessel Count	Age				Length				Horsepower				Refrigeration			Hold Capacity			
		Count	25%	Median	75%	Count	25%	Median	75%	Count	25%	Median	75%	Considered	Count	%	Count	25%	Median	75%
1978	1,563	1,457	5	13	18	1,510	27	32	32	1,469	95	160	220	1,245	9	0.7%	559	160	200	300
1979	1,711	1,619	2	11	18	1,643	28	32	32	1,535	110	165	225	1,381	14	1.0%	662	175	216	300
1980	1,802	1,682	1	7	19	1,695	29	32	32	1,532	130	185	270	1,451	15	1.0%	759	200	250	350
1981	1,786	1,695	2	5	18	1,701	29	32	32	1,554	140	200	270	1,490	14	0.9%	744	200	250	350
1982	1,802	1,729	2	4	17	1,731	30	32	32	1,592	160	210	280	1,576	14	0.9%	790	200	269	360
1983	1,802	1,742	3	5	17	1,741	30	32	32	1,661	165	225	286	1,622	13	0.8%	839	200	280	360
1984	1,838	1,779	4	5	17	1,783	31	32	32	1,719	165	230	300	1,681	15	0.9%	902	200	300	375
1985	1,829	1,802	5	6	16	1,805	31	32	32	1,746	165	250	315	1,708	18	1.1%	966	200	300	396
1986	1,849	1,843	5	7	15	1,846	32	32	32	1,790	185	250	320	1,753	27	1.5%	1,031	200	300	400
1987	1,861	1,857	5	8	16	1,859	32	32	32	1,795	185	260	320	1,753	30	1.7%	1,030	200	300	400
1988	1,867	1,864	6	9	14	1,865	32	32	32	1,813	185	260	330	1,761	30	1.7%	1,075	210	300	400
1989	1,892	1,891	6	9	12	1,891	32	32	32	1,847	200	260	330	1,795	43	2.4%	1,102	217	300	400
1990	1,905	1,904	7	10	13	1,904	32	32	32	1,859	200	270	330	1,784	58	3.3%	1,102	225	312	400
1991	1,894	1,894	7	11	13	1,894	32	32	32	1,859	210	270	350	1,769	77	4.4%	1,099	240	320	407
1992	1,912	1,912	8	12	14	1,912	32	32	32	1,879	210	270	350	1,789	90	5.0%	1,131	240	320	405
1993	1,918	1,918	8	13	15	1,918	32	32	32	1,883	210	275	350	1,788	108	6.0%	1,119	240	320	407
1994	1,889	1,888	9	14	16	1,889	32	32	32	1,853	220	280	375	1,760	130	7.4%	1,113	240	321	405
1995	1,915	1,913	9	15	17	1,915	32	32	32	1,875	225	286	380	1,779	155	8.7%	1,119	245	325	420
1996	1,921	1,920	9	16	17	1,921	32	32	32	1,877	230	300	400	1,779	181	10.2%	1,103	250	325	430
1997	1,898	1,897	10	16	18	1,898	32	32	32	1,860	235	300	420	1,763	197	11.2%	1,073	250	325	430
1998	1,868	1,867	11	18	19	1,868	32	32	32	1,833	235	300	425	1,736	206	11.9%	1,047	240	325	430
1999	1,868	1,866	12	18	20	1,868	32	32	32	1,833	235	300	425	1,732	213	12.3%	1,038	240	323	430
2000	1,836	1,836	12	19	21	1,836	32	32	32	1,805	240	310	425	1,712	213	12.4%	1,033	240	325	430
2001	1,567	1,566	13	20	22	1,567	32	32	32	1,539	240	310	425	1,468	188	12.8%	884	240	320	430
2002	1,175	1,170	14	20	23	1,175	32	32	32	1,152	240	306	425	1,094	153	14.0%	645	240	325	450
2003	1,407	1,404	15	21	24	1,407	32	32	32	1,378	250	310	425	1,311	183	14.0%	757	240	325	450
2004	1,366	1,362	16	22	25	1,366	32	32	32	1,339	250	310	430	1,270	191	15.0%	733	240	325	450
2005	1,383	1,381	17	23	26	1,383	32	32	32	1,354	250	310	425	1,297	204	15.7%	759	240	321	430
2006	1,448	1,446	17	24	27	1,448	32	32	32	1,421	250	315	430	1,362	217	15.9%	789	240	325	450
2007	1,398	1,397	18	25	28	1,398	32	32	32	1,371	250	320	430	1,322	225	17.0%	767	240	325	450
2008	1,393	1,392	19	26	29	1,393	32	32	32	1,370	250	320	430	1,321	236	17.9%	767	240	325	450
2009	1,351	1,350	20	27	30	1,351	32	32	32	1,331	250	320	435	1,285	250	19.5%	747	245	325	450
2010	1,401	1,400	21	28	31	1,401	32	32	32	1,377	250	320	435	1,337	279	20.9%	781	250	334	450
2011	1,442	1,442	22	29	32	1,442	32	32	32	1,414	250	320	435	1,386	320	23.1%	801	245	334	450
2012	1,429	1,429	23	29	33	1,429	32	32	32	1,401	250	330	450	1,382	368	26.6%	813	240	325	451
2013	1,407	1,407	23	30	34	1,407	32	32	32	1,379	250	330	450	1,359	395	29.1%	796	248	325	450
2014	1,463	1,462	24	31	35	1,462	32	32	32	1,428	260	330	460	1,409	430	30.5%	825	245	340	480
2015	1,474	1,474	25	32	36	1,474	32	32	32	1,445	260	350	460	1,424	465	32.7%	843	250	350	480
2016	1,371	1,366	25	32	36	1,366	32	32	32	1,344	260	350	480	1,321	484	36.6%	776	250	350	490
2017	1,386	1,386	26	33	37	1,386	32	32	32	1,366	265	370	500	1,337	518	38.7%	777	250	350	500
Total	4,428					4,239	28	32	32	4,074	135	250	350	3,871	576	14.9%	1,993	200	300	400

- Total includes every vessel used in this fishery from 1978 to 2017.

Table 1-14 provides additional Bristol Bay salmon drift gillnet vessel characteristics. Included are statistics of engine propulsion and hull material for each year since 1978.

Table 1-14. Additional Bristol Bay Salmon Drift Gillnet Vessel Characteristics

Year	Vessel Count	Engine Power					Hull Material										
		Count	Diesel		Gas		Count	Aluminum		Fiberglass		Steel	Rubber	Wood			
1978	1,563	1,503	320	21.3%	1,183	78.7%	1,512	117	7.7%	262	17.3%	1	0.1%	0	0.0%	1,132	74.9%
1979	1,711	1,625	465	28.6%	1,160	71.4%	1,638	186	11.4%	410	25.0%	1	0.1%	0	0.0%	1,041	63.6%
1980	1,802	1,695	680	40.1%	1,015	59.9%	1,686	251	14.9%	602	35.7%	0	0.0%	0	0.0%	833	49.4%
1981	1,786	1,704	723	42.4%	981	57.6%	1,687	268	15.9%	638	37.8%	2	0.1%	0	0.0%	779	46.2%
1982	1,802	1,734	839	48.4%	895	51.6%	1,725	314	18.2%	735	42.6%	2	0.1%	0	0.0%	674	39.1%
1983	1,802	1,743	896	51.4%	847	48.6%	1,740	338	19.4%	774	44.5%	2	0.1%	0	0.0%	626	36.0%
1984	1,838	1,781	953	53.5%	828	46.5%	1,780	371	20.8%	829	46.6%	1	0.1%	0	0.0%	579	32.5%
1985	1,829	1,803	1,016	56.4%	787	43.6%	1,802	398	22.1%	883	49.0%	1	0.1%	0	0.0%	520	28.9%
1986	1,849	1,839	1,094	59.5%	745	40.5%	1,843	450	24.4%	918	49.8%	1	0.1%	0	0.0%	474	25.7%
1987	1,861	1,844	1,118	60.6%	726	39.4%	1,856	472	25.4%	940	50.6%	1	0.1%	0	0.0%	443	23.9%
1988	1,867	1,856	1,187	64.0%	669	36.0%	1,861	508	27.3%	952	51.2%	1	0.1%	0	0.0%	400	21.5%
1989	1,892	1,883	1,250	66.4%	633	33.6%	1,888	557	29.5%	986	52.2%	1	0.1%	0	0.0%	344	18.2%
1990	1,905	1,892	1,295	68.4%	597	31.6%	1,899	597	31.4%	991	52.2%	0	0.0%	0	0.0%	311	16.4%
1991	1,894	1,888	1,334	70.7%	554	29.3%	1,888	619	32.8%	996	52.8%	0	0.0%	0	0.0%	273	14.5%
1992	1,912	1,905	1,377	72.3%	528	27.7%	1,906	634	33.3%	1,017	53.4%	0	0.0%	0	0.0%	255	13.4%
1993	1,918	1,908	1,412	74.0%	496	26.0%	1,911	672	35.2%	1,006	52.6%	0	0.0%	0	0.0%	233	12.2%
1994	1,889	1,880	1,430	76.1%	450	23.9%	1,883	679	36.1%	993	52.7%	0	0.0%	0	0.0%	211	11.2%
1995	1,915	1,900	1,477	77.7%	423	22.3%	1,910	716	37.5%	1,001	52.4%	1	0.1%	0	0.0%	192	10.1%
1996	1,921	1,902	1,505	79.1%	397	20.9%	1,916	754	39.4%	989	51.6%	0	0.0%	0	0.0%	173	9.0%
1997	1,898	1,882	1,516	80.6%	366	19.4%	1,892	767	40.5%	974	51.5%	0	0.0%	0	0.0%	151	8.0%
1998	1,868	1,855	1,500	80.9%	355	19.1%	1,864	753	40.4%	960	51.5%	0	0.0%	0	0.0%	151	8.1%
1999	1,868	1,856	1,505	81.1%	351	18.9%	1,865	765	41.0%	963	51.6%	0	0.0%	0	0.0%	137	7.3%
2000	1,836	1,825	1,497	82.0%	328	18.0%	1,834	765	41.7%	952	51.9%	0	0.0%	0	0.0%	117	6.4%
2001	1,567	1,557	1,269	81.5%	288	18.5%	1,565	672	42.9%	805	51.4%	0	0.0%	0	0.0%	88	5.6%
2002	1,175	1,165	938	80.5%	227	19.5%	1,173	525	44.8%	591	50.4%	0	0.0%	1	0.1%	56	4.8%
2003	1,407	1,397	1,144	81.9%	253	18.1%	1,406	626	44.5%	716	50.9%	0	0.0%	1	0.1%	63	4.5%
2004	1,366	1,356	1,128	83.2%	228	16.8%	1,365	613	44.9%	698	51.1%	0	0.0%	1	0.1%	53	3.9%
2005	1,383	1,372	1,138	82.9%	234	17.1%	1,383	639	46.2%	695	50.3%	0	0.0%	1	0.1%	48	3.5%
2006	1,448	1,438	1,190	82.8%	248	17.2%	1,448	694	47.9%	712	49.2%	0	0.0%	1	0.1%	41	2.8%
2007	1,398	1,389	1,174	84.5%	215	15.5%	1,398	667	47.7%	693	49.6%	0	0.0%	1	0.1%	37	2.6%
2008	1,393	1,385	1,182	85.3%	203	14.7%	1,393	669	48.0%	686	49.2%	0	0.0%	1	0.1%	37	2.7%
2009	1,351	1,343	1,163	86.6%	180	13.4%	1,351	658	48.7%	661	48.9%	0	0.0%	0	0.0%	32	2.4%
2010	1,401	1,394	1,202	86.2%	192	13.8%	1,401	688	49.1%	685	48.9%	0	0.0%	0	0.0%	28	2.0%
2011	1,442	1,435	1,248	87.0%	187	13.0%	1,442	708	49.1%	707	49.0%	0	0.0%	0	0.0%	27	1.9%
2012	1,429	1,423	1,250	87.8%	173	12.2%	1,429	716	50.1%	690	48.3%	0	0.0%	0	0.0%	23	1.6%
2013	1,407	1,402	1,240	88.4%	162	11.6%	1,407	704	50.0%	680	48.3%	0	0.0%	0	0.0%	23	1.6%
2014	1,463	1,456	1,289	88.5%	167	11.5%	1,462	738	50.5%	699	47.8%	0	0.0%	0	0.0%	25	1.7%
2015	1,474	1,469	1,309	89.1%	160	10.9%	1,474	744	50.5%	709	48.1%	0	0.0%	0	0.0%	21	1.4%
2016	1,371	1,362	1,233	90.5%	129	9.5%	1,366	711	52.0%	642	47.0%	0	0.0%	0	0.0%	13	1.0%
2017	1,386	1,383	1,264	91.4%	119	8.6%	1,386	717	51.7%	659	47.5%	0	0.0%	0	0.0%	10	0.7%
Total	4,428	4,202	2,239	53.3%	1,963	46.7%	4,224	1,369	32.4%	1,447	34.3%	4	0.1%	1	0.0%	1,403	33.2%

- Total includes every vessel used in this fishery from 1978 to 2017.

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 1-5 are for both nominal and real dollars using the 2017 Consumer Price Index from the U.S. Bureau of Labor Statistics.

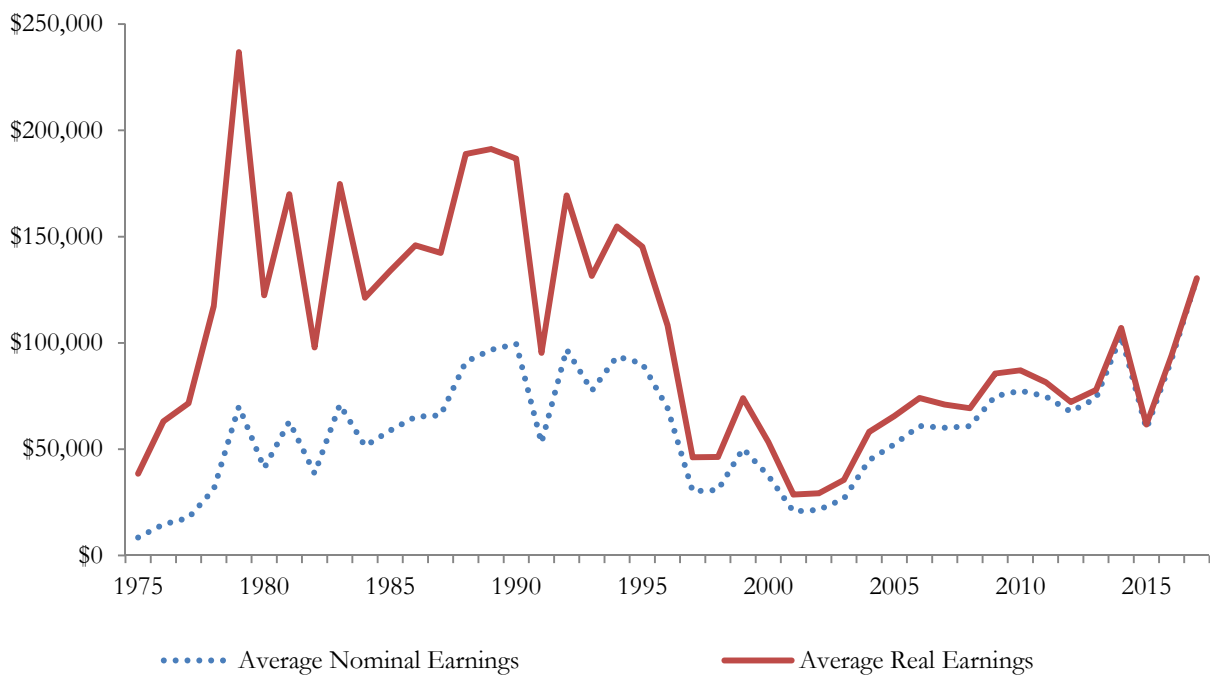
Permit counts include interim-entry permits and permanent permits. Interim-entry permits are issued to individuals during the period when their applications for permanent permits are in adjudication. The last year an interim-entry permit was held for the Bristol Bay salmon drift gillnet fishery was in 2007. 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 1-15 reports the number of permits issued, permits and vessels with landings, and estimated gross earnings in the Bristol Bay salmon drift gillnet fishery from 1975 to 2017. 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 1-16 reports the number of permit holders (people) and estimated real (inflation-adjusted) gross earnings by each resident type.

Table 1-17 breaks out participation and earnings by ADF&G salmon management area with real ex-vessel values. Note that some permits are used to record landings in more than one district.

Figure 1-5. Estimated Nominal and Real Average Gross Earnings Per Bristol Bay Salmon Drift Gillnet Permit



- Real earnings are adjusted for inflation using the 2017 U.S. Bureau of Labor Statistics Consumer Price Index.

Table 1-15. Estimated Total Gross Earnings (Real and Nominal) for the Bristol Bay Salmon Drift Gillnet Fishery, With Average Earnings (Real) by Permit and Vessel, 1975-2017

Year	Permits Issued	Total Gross Earnings		Permits With Landings	Average Real Earnings	Vessels With Landings	Average Real Vessel Earnings
		Nominal	Real				
1975	1,823	\$10,529,539	\$47,973,987	1,246	\$38,502	1,360	\$35,275
1976	1,706	\$19,859,648	\$85,553,550	1,355	\$63,139	1,412	\$60,590
1977	1,725	\$24,058,389	\$97,313,404	1,359	\$71,607	1,440	\$67,579
1978	1,772	\$49,183,042	\$184,904,100	1,575	\$117,399	1,563	\$118,301
1979	1,800	\$120,196,589	\$405,820,769	1,714	\$236,768	1,711	\$237,183
1980	1,827	\$72,583,988	\$215,919,747	1,764	\$122,403	1,802	\$119,822
1981	1,827	\$112,487,059	\$303,331,440	1,785	\$169,934	1,786	\$169,838
1982	1,824	\$69,074,998	\$175,457,652	1,792	\$97,912	1,802	\$97,368
1983	1,822	\$127,608,313	\$314,049,695	1,797	\$174,763	1,802	\$174,278
1984	1,819	\$92,757,369	\$218,832,399	1,804	\$121,304	1,838	\$119,060
1985	1,834	\$106,696,595	\$243,061,983	1,815	\$133,918	1,829	\$132,893
1986	1,838	\$118,928,486	\$265,983,125	1,823	\$145,904	1,849	\$143,852
1987	1,837	\$120,369,596	\$259,727,071	1,824	\$142,394	1,861	\$139,563
1988	1,839	\$167,443,171	\$346,945,648	1,837	\$188,865	1,867	\$185,831
1989	1,867	\$179,466,290	\$354,764,331	1,855	\$191,248	1,892	\$187,508
1990	1,878	\$186,085,765	\$348,992,675	1,869	\$186,727	1,905	\$183,198
1991	1,881	\$99,230,409	\$178,585,593	1,873	\$95,347	1,894	\$94,290
1992	1,884	\$182,217,012	\$318,353,771	1,879	\$169,427	1,912	\$166,503
1993	1,886	\$145,375,898	\$246,605,814	1,875	\$131,523	1,918	\$128,574
1994	1,887	\$174,569,899	\$288,735,315	1,865	\$154,818	1,889	\$152,851
1995	1,888	\$170,029,398	\$273,475,106	1,882	\$145,311	1,915	\$142,807
1996	1,891	\$130,612,195	\$204,051,378	1,884	\$108,308	1,921	\$106,221
1997	1,899	\$56,691,067	\$86,580,151	1,875	\$46,176	1,898	\$45,617
1998	1,899	\$57,202,946	\$86,022,000	1,858	\$46,298	1,868	\$46,050
1999	1,898	\$92,895,948	\$136,678,600	1,847	\$74,000	1,868	\$73,168
2000	1,890	\$68,412,338	\$97,382,302	1,823	\$53,419	1,836	\$53,040
2001	1,883	\$32,414,815	\$44,864,594	1,566	\$28,649	1,567	\$28,631
2002	1,878	\$25,432,417	\$34,652,552	1,184	\$29,267	1,175	\$29,492
2003	1,867	\$37,999,418	\$50,621,833	1,424	\$35,549	1,407	\$35,979
2004	1,860	\$65,669,641	\$85,214,094	1,465	\$58,167	1,366	\$62,382
2005	1,862	\$80,559,324	\$101,109,583	1,542	\$65,570	1,383	\$73,109
2006	1,860	\$96,064,034	\$116,801,667	1,577	\$74,066	1,448	\$80,664
2007	1,862	\$98,114,659	\$115,991,286	1,633	\$71,030	1,398	\$82,969
2008	1,863	\$100,139,700	\$114,007,901	1,645	\$69,306	1,393	\$81,843
2009	1,863	\$122,005,800	\$139,398,154	1,628	\$85,625	1,351	\$103,181
2010	1,863	\$134,136,756	\$150,785,127	1,731	\$87,109	1,401	\$107,627
2011	1,862	\$131,558,667	\$143,361,802	1,758	\$81,548	1,442	\$99,419
2012	1,862	\$117,936,083	\$125,911,359	1,743	\$72,238	1,429	\$88,112
2013	1,862	\$127,500,022	\$134,156,971	1,723	\$77,862	1,407	\$95,350
2014	1,863	\$182,165,338	\$188,616,719	1,762	\$107,047	1,463	\$128,925
2015	1,864	\$104,690,585	\$108,269,687	1,757	\$61,622	1,474	\$73,453
2016	1,863	\$158,030,886	\$161,397,504	1,714	\$94,164	1,371	\$117,722
2017	1,863	\$226,462,865	\$226,462,865	1,737	\$130,376	1,386	\$163,393

- Adjusted for inflation to 2017 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 1-16. Estimated Real Gross Earnings for Permit Holders in the Bristol Bay Salmon Drift Gillnet Fishery by Resident Type, 1975-2017

Year	Local			Nonlocal			Nonresident			Total		
	People	Average	Total	People	Average	Total	People	Average	Total	People	Average	Total
1975	463	\$28,001	\$12,964,691	217	\$36,646	\$7,952,113	570	\$47,469	\$27,057,184	1,250	\$38,379	\$47,973,987
1976	504	\$63,714	\$32,111,971	229	\$57,269	\$13,114,520	628	\$64,210	\$40,323,948	1,362	\$62,815	\$85,553,550
1977	529	\$64,953	\$34,359,985	231	\$70,190	\$16,213,878	603	\$77,512	\$46,739,541	1,363	\$71,396	\$97,313,404
1978	604	\$112,745	\$68,097,774	295	\$100,190	\$29,555,905	688	\$126,817	\$87,250,421	1,587	\$116,512	\$184,904,100
1979	636	\$159,874	\$101,679,845	350	\$220,516	\$77,180,514	745	\$304,645	\$226,960,411	1,731	\$234,443	\$405,820,769
1980	647	\$93,445	\$60,458,668	365	\$128,273	\$46,819,668	770	\$141,093	\$108,641,412	1,782	\$121,167	\$215,919,747
1981	653	\$132,384	\$86,446,790	387	\$169,527	\$65,606,829	772	\$195,956	\$151,277,820	1,812	\$167,401	\$303,331,440
1982	638	\$81,332	\$51,889,795	406	\$113,758	\$46,185,584	769	\$100,627	\$77,382,273	1,813	\$96,778	\$175,457,652
1983	630	\$117,421	\$73,975,545	432	\$177,870	\$76,839,891	756	\$215,918	\$163,234,259	1,818	\$172,745	\$314,049,695
1984	632	\$89,539	\$56,588,374	429	\$125,683	\$53,918,063	777	\$139,416	\$108,325,961	1,838	\$119,060	\$218,832,399
1985	611	\$94,192	\$57,551,133	447	\$149,298	\$66,736,023	776	\$153,060	\$118,774,827	1,834	\$132,531	\$243,061,983
1986	596	\$118,621	\$70,697,836	468	\$149,775	\$70,094,844	797	\$157,077	\$125,190,445	1,861	\$142,925	\$265,983,125
1987	604	\$114,371	\$69,080,171	462	\$145,640	\$67,285,645	794	\$155,367	\$123,361,256	1,860	\$139,638	\$259,727,071
1988	583	\$158,468	\$92,386,878	466	\$195,554	\$91,128,138	829	\$197,142	\$163,430,632	1,878	\$184,742	\$346,945,648
1989	579	\$144,238	\$83,513,573	462	\$184,431	\$85,206,955	854	\$217,850	\$186,043,803	1,895	\$187,211	\$354,764,331
1990	557	\$132,459	\$73,779,468	488	\$171,530	\$83,706,843	868	\$220,629	\$191,506,365	1,913	\$182,432	\$348,992,675
1991	538	\$70,367	\$37,857,381	477	\$96,040	\$45,811,291	887	\$107,009	\$94,916,921	1,902	\$93,894	\$178,585,593
1992	539	\$112,986	\$60,899,663	462	\$167,385	\$77,331,829	923	\$195,149	\$180,122,278	1,924	\$165,465	\$318,353,771
1993	506	\$102,563	\$51,896,799	467	\$128,008	\$59,779,898	954	\$141,435	\$134,929,117	1,927	\$127,974	\$246,605,814
1994	498	\$101,987	\$50,789,744	475	\$147,480	\$70,052,819	950	\$176,729	\$167,892,752	1,923	\$150,148	\$288,735,315
1995	469	\$102,409	\$48,029,610	485	\$132,258	\$64,145,015	982	\$164,257	\$161,300,482	1,936	\$141,258	\$273,475,106
1996	456	\$83,613	\$38,127,455	477	\$99,710	\$47,561,597	992	\$119,317	\$118,362,325	1,925	\$106,001	\$204,051,378
1997	456	\$33,156	\$15,118,984	468	\$47,620	\$22,286,261	987	\$49,823	\$49,174,906	1,911	\$45,306	\$86,580,151
1998	459	\$39,637	\$18,193,164	444	\$44,566	\$19,787,109	983	\$48,873	\$48,041,728	1,886	\$45,611	\$86,022,000
1999	454	\$62,572	\$28,407,634	442	\$71,322	\$31,524,148	976	\$78,634	\$76,746,818	1,872	\$73,012	\$136,678,600
2000	436	\$45,867	\$19,998,214	450	\$49,645	\$22,340,028	957	\$57,517	\$55,044,061	1,843	\$52,839	\$97,382,302
2001	401	\$21,628	\$8,672,857	379	\$25,616	\$9,708,316	797	\$33,229	\$26,483,420	1,577	\$28,449	\$44,864,594
2002	311	\$15,433	\$4,799,761	264	\$31,191	\$8,234,351	611	\$35,382	\$21,618,440	1,186	\$29,218	\$34,652,552
2003	363	\$28,641	\$10,396,559	328	\$34,219	\$11,223,737	740	\$39,191	\$29,001,537	1,431	\$35,375	\$50,621,833
2004	356	\$39,590	\$14,094,123	343	\$58,144	\$19,943,516	775	\$66,034	\$51,176,454	1,474	\$57,811	\$85,214,094
2005	364	\$46,217	\$16,822,812	370	\$61,417	\$22,724,352	823	\$74,802	\$61,562,419	1,557	\$64,939	\$101,109,583
2006	363	\$51,107	\$18,551,742	386	\$74,840	\$28,888,063	848	\$81,795	\$69,361,862	1,597	\$73,138	\$116,801,667
2007	344	\$51,420	\$17,688,538	412	\$68,660	\$28,287,720	896	\$78,142	\$70,015,029	1,652	\$70,213	\$115,991,286
2008	341	\$47,051	\$16,044,425	428	\$65,319	\$27,956,419	896	\$78,133	\$70,007,057	1,665	\$68,473	\$114,007,901
2009	306	\$58,580	\$17,925,337	386	\$83,134	\$32,089,792	950	\$94,087	\$89,383,025	1,642	\$84,895	\$139,398,154
2010	325	\$62,803	\$20,411,013	429	\$84,155	\$36,102,418	1,010	\$93,338	\$94,271,695	1,764	\$85,479	\$150,785,127
2011	332	\$55,067	\$18,282,362	443	\$76,859	\$34,048,656	1,014	\$89,774	\$91,030,785	1,789	\$80,135	\$143,361,802
2012	326	\$47,446	\$15,467,393	432	\$68,598	\$29,634,304	1,006	\$80,328	\$80,809,663	1,764	\$71,378	\$125,911,359
2013	317	\$53,262	\$16,884,106	448	\$74,420	\$33,340,106	975	\$86,085	\$83,932,759	1,740	\$77,102	\$134,156,971
2014	322	\$68,292	\$21,989,976	466	\$106,167	\$49,473,693	994	\$117,860	\$117,153,050	1,782	\$105,846	\$188,616,719
2015	311	\$38,514	\$11,977,724	447	\$62,022	\$27,723,858	1,019	\$67,290	\$68,568,104	1,777	\$60,928	\$108,269,687
2016	297	\$60,137	\$17,860,556	436	\$97,912	\$42,689,820	1,000	\$100,847	\$100,847,128	1,733	\$93,132	\$161,397,504
2017	305	\$82,325	\$25,109,010	454	\$134,697	\$61,152,237	1,003	\$139,782	\$140,201,618	1,762	\$128,526	\$226,462,865

- Adjusted for inflation to 2017 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.

Bristol Bay Salmon Drift Gillnet Fishery (S03T)

Table 1-17. Gross Real Earnings for the Bristol Bay Salmon Drift Gillnet Fishery by ADF&G Salmon District, 1975 to 2017

Year	Togiak		Nushagak		Naknek-Kvichak		Egegik		Ugashik		Other		Total Vessels	Total Gross Earnings
	Vessels	Gross Earnings	Vessels	Gross Earnings	Vessels	Gross Earnings	Vessels	Gross Earnings	Vessels	Gross Earnings	Vessels	Gross Earnings		
1975	187	\$3,518,264	491	\$7,759,581	777	\$27,338,910	265	\$9,080,296	41	\$194,626	7	\$82,310	1,360	\$47,973,987
1976	162	\$6,858,767	505	\$27,703,106	729	\$33,451,815	263	\$15,201,937	83	\$2,219,595	11	\$118,330	1,412	\$85,553,550
1977	172	\$10,135,881	532	\$26,648,851	646	\$34,432,756	366	\$24,227,131	48	\$1,553,092	20	\$315,693	1,440	\$97,313,404
1978	189	\$15,486,011	727	\$74,865,918	812	\$75,166,961	397	\$17,942,627	56	\$537,437	26	\$905,145	1,563	\$184,904,100
1979	194	\$11,559,321	846	\$68,315,301	1,074	\$269,088,570	330	\$36,933,249	117	\$7,464,069	813	\$12,460,259	1,711	\$405,820,769
1980	260	\$10,218,680	1,020	\$54,663,676	1,041	\$119,938,026	296	\$21,946,705	213	\$8,481,040	30	\$671,620	1,802	\$215,919,747
1981	288	\$10,017,655	919	\$100,936,083	990	\$124,688,460	358	\$42,533,200	282	\$24,724,570	17	\$431,473	1,786	\$303,331,440
1982	318	\$10,904,689	1,076	\$79,246,456	850	\$48,532,849	425	\$23,786,858	265	\$12,225,552	22	\$761,247	1,802	\$175,457,652
1983	295	\$7,888,847	960	\$48,266,587	1,061	\$174,266,143	488	\$54,546,094	357	\$28,868,441	17	\$213,583	1,802	\$314,049,695
1984	308	\$7,744,948	904	\$28,510,248	1,118	\$114,046,269	590	\$44,199,940	349	\$23,422,353	44	\$908,641	1,838	\$218,832,399
1985	157	\$4,813,471	614	\$12,831,007	1,169	\$77,410,494	937	\$77,647,867	765	\$69,874,244	44	\$484,901	1,829	\$243,061,983
1986	160	\$6,864,490	828	\$43,962,259	734	\$40,199,409	847	\$83,279,869	827	\$91,337,809	38	\$339,289	1,849	\$265,983,125
1987	149	\$7,231,875	639	\$49,176,023	1,075	\$76,846,452	940	\$87,751,626	633	\$37,675,023	49	\$1,046,071	1,861	\$259,727,071
1988	331	\$22,435,238	536	\$39,144,197	1,031	\$83,210,088	1,009	\$161,524,595	577	\$38,300,539	61	\$2,330,991	1,867	\$346,945,648
1989	158	\$2,203,494	444	\$26,115,945	1,223	\$172,297,270	996	\$114,293,391	558	\$38,767,312	65	\$1,086,920	1,892	\$354,764,331
1990	130	\$2,328,889	456	\$29,603,682	1,401	\$181,483,610	981	\$111,093,529	424	\$23,513,697	64	\$969,269	1,905	\$348,992,675
1991	213	\$3,513,684	462	\$31,353,569	1,091	\$74,797,028	671	\$47,486,280	448	\$20,786,259	69	\$648,773	1,894	\$178,585,593
1992	283	\$6,396,525	527	\$23,669,718	982	\$94,735,023	958	\$158,309,288	517	\$34,435,610	102	\$807,607	1,912	\$318,353,771
1993	163	\$2,780,340	533	\$29,409,129	841	\$51,387,362	1,206	\$136,724,852	610	\$25,953,718	50	\$350,413	1,918	\$246,605,814
1994	178	\$3,479,890	531	\$26,114,171	1,136	\$129,775,141	1,106	\$90,092,381	480	\$38,205,173	77	\$1,068,558	1,889	\$288,735,315
1995	173	\$3,179,098	523	\$25,033,568	1,179	\$123,976,611	942	\$90,699,837	746	\$30,315,367	82	\$270,625	1,915	\$273,475,106
1996	152	\$2,278,965	633	\$37,095,421	764	\$55,058,696	950	\$76,225,458	625	\$33,191,790	33	\$201,049	1,921	\$204,051,378
1997	66	\$568,875	622	\$15,733,580	554	\$3,616,200	963	\$55,709,527	477	\$10,645,473	42	\$306,497	1,898	\$86,580,151
1998	66	\$1,426,870	684	\$23,737,152	1,055	\$22,021,262	954	\$31,882,525	395	\$6,674,513	62	\$279,678	1,868	\$86,022,000
1999	125	\$1,717,337	564	\$30,003,579	1,102	\$51,766,972	792	\$40,036,093	455	\$13,136,752	21	\$17,866	1,868	\$136,678,600
2000	191	\$3,115,983	689	\$28,841,303	800	\$22,508,844	824	\$34,697,173	520	\$8,140,783	27	\$78,215	1,836	\$97,382,302
2001	162	\$2,443,279	799	\$15,382,732	558	\$16,068,490	648	\$9,492,258	286	\$1,476,742	4	\$1,092	1,567	\$44,864,594
2002	95	\$717,689	488	\$9,036,150	338	\$3,797,532	422	\$15,547,804	377	\$5,552,971	2	\$406	1,175	\$34,652,552
2003	138	\$2,071,128	617	\$25,041,450	509	\$9,453,074	559	\$7,568,680	436	\$6,484,136	4	\$3,365	1,407	\$50,621,833
2004	117	\$1,478,397	470	\$22,423,025	492	\$15,642,227	610	\$34,076,864	394	\$11,577,759	3	\$15,822	1,366	\$85,214,094
2005	90	\$1,641,004	650	\$31,080,126	655	\$26,831,556	609	\$31,884,464	356	\$9,638,446	12	\$33,987	1,383	\$101,109,583
2006	83	\$2,196,280	664	\$45,772,570	775	\$28,798,128	522	\$29,821,355	241	\$10,156,662	6	\$56,672	1,448	\$116,801,667
2007	110	\$2,949,977	643	\$31,476,069	700	\$33,895,948	497	\$25,829,498	414	\$21,839,795	0	\$0	1,398	\$115,991,286
2008	135	\$2,632,954	516	\$27,654,626	770	\$42,768,317	390	\$30,265,820	272	\$10,686,184	0	\$0	1,393	\$114,007,901
2009	125	\$2,393,592	461	\$34,027,698	635	\$37,456,705	537	\$53,168,735	275	\$12,351,424	0	\$0	1,351	\$139,398,154
2010	93	\$3,240,434	528	\$42,242,804	860	\$55,936,210	655	\$25,791,699	345	\$23,573,979	0	\$0	1,401	\$150,785,127
2011	135	\$4,360,291	419	\$30,203,020	882	\$59,703,925	689	\$31,257,956	379	\$17,836,610	0	\$0	1,442	\$143,361,802
2012	117	\$4,262,476	455	\$13,882,329	845	\$62,910,701	470	\$29,334,920	328	\$15,520,933	0	\$0	1,429	\$125,911,359
2013	113	\$3,740,444	385	\$26,803,603	855	\$41,462,308	723	\$41,501,348	351	\$20,649,269	0	\$0	1,407	\$134,156,971
2014	94	\$2,863,569	532	\$40,176,798	976	\$89,014,760	724	\$47,078,980	279	\$9,481,144	1	\$1,469	1,463	\$188,616,719
2015	79	\$1,039,980	411	\$14,757,631	901	\$50,694,282	783	\$23,411,042	274	\$18,366,752	0	\$0	1,474	\$108,269,687
2016	56	\$1,966,812	475	\$29,331,392	807	\$61,161,544	379	\$36,508,389	299	\$32,429,366	0	\$0	1,371	\$161,397,504
2017	55	\$2,261,592	566	\$66,663,363	689	\$43,882,507	528	\$75,158,282	411	\$38,497,121	0	\$0	1,386	\$226,462,865

- Adjusted for inflation to 2017 dollars using U.S. Bureau of Labor Statistics Consumer Price Index.
- Some Permits are used to record landings in more than one district.

Chapter 2 Bristol Bay Salmon Set Gillnet Fishery

S04T Permit Holdings

Limited entry permits for the Bristol Bay salmon set gillnet fishery (S04T permits) were issued starting in 1975. CFEC has issued 1,041 S04T permits. Table 2-1 indicates the initial distribution and historical net changes in permit holdings for the fishery. Of this total, Alaska Locals received 63.4% (660/1,041) of the permits, Nonlocal Alaskans received 21.8% (227/1,041) of the permits, and Nonresidents received 14.8% (154/1,041). 883 of the S04T permits were issued as transferable permits, and the remaining 158 permits were issued as non-transferable permits.

Table 2-1. Initial Issuance and Year-end 2017 Totals of Bristol Bay Salmon Set Gillnet Permits, With Net Changes Due to Permit Transfers, Migrations, and Cancellations, by Resident Type

INITIAL ISSUE			TRANSFERS		MIGRATIONS		CANCELLED		2017 YEAR-END	
<i>Residency</i>	<i>Total</i>	<i>Percent</i>	<i>Change</i>	<i>Percent Change from Initial</i>	<i>Change</i>	<i>Percent Change from Initial</i>	<i>Change</i>	<i>Percent Change from Initial</i>	<i>Total</i>	<i>Percent</i>
Local	660	63.4%	-140	-21.2%	-146	-22.1%	-34	-5.2%	340	35.0%
Nonlocal	227	21.8%	44	19.4%	42	18.5%	-23	-10.1%	290	29.8%
Nonresident	154	14.8%	96	62.3%	104	67.5%	-12	-7.8%	342	35.2%
Total	1,041	100.0%	0	0.0%	0	0.0%	-69	-6.6%	972	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 have had the largest impact on the changes.

Transfers of S04T 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 2-2. Transfer Acquisition Methods for Bristol Bay Salmon Set Gillnet Permits, 1980-2017

Acquisition Method	Bristol Bay Salmon Set Gillnet		Combined Bristol Bay Salmon		Statewide Salmon Set Gillnet		All Fisheries Statewide	
	Count	Percent	Count	Percent	Count	Percent	Count	Percent
<i>Gift</i>	1,786	50.2%	3,831	41.2%	6,861	56.4%	13,825	36.5%
<i>Sale</i>	1,623	45.6%	5,030	54.1%	4,743	39.0%	22,262	58.8%
<i>Trade</i>	26	0.7%	65	0.7%	97	0.8%	520	1.4%
<i>Other</i>	122	3.4%	370	4.0%	467	3.8%	1,225	3.2%
Total	3,557		9,296		12,168		37,832	

Table 2-2 compares and contrasts the transfer acquisition methods for the S04T permits, combined Bristol Bay salmon permit types, all statewide salmon set gillnet permits, and all limited entry permits between 1980 and 2017. About half of all S04T transfers were gifts (50.2% or 1,786/3,557), almost half were sales (45.6% or 1,623/3,557), and a smaller percentage were trades (0.7% or 26/3,557) or other (3.4% 122/3,557). The annual acquisition methods for S04T permits can be viewed in a different publication.⁶

Table 2-3. Relationships of Transferor to Transfer Recipients for Bristol Bay Salmon Set Gillnet Permits, 1980-2017

Relationship	Bristol Bay Salmon Set Gillnet		Combined Bristol Bay Salmon		Statewide Salmon Set Gillnet		All Fisheries Statewide	
	Count	Percent	Count	Percent	Count	Percent	Count	Percent
<i>Business Partner/Friend</i>	788	22.2%	1,744	18.8%	2,329	19.1%	6,992	18.5%
<i>Member of Immediate Family</i>	1,443	40.6%	3,359	36.1%	5,906	48.5%	12,802	33.8%
<i>Other Relative</i>	248	7.0%	506	5.4%	869	7.1%	1,743	4.6%
<i>Other</i>	1,078	30.3%	3,687	39.7%	3,064	25.2%	16,295	43.1%
Total	3,557		9,296		12,168		37,832	

Table 2-3 shows the relationships between the transferors and transfer recipients for S04T permits, and compares S04T permit transfers with the combined Bristol Bay salmon permit types, all statewide salmon set gillnet permits, and all limited entry permits from 1980 to 2017. Transfers within the family, both between immediate family members and other relatives, total 47.5% (1,691/3,557) of all permit transfers for S04T permits compared to 41.6% (3,865/9,296) combined Bristol Bay salmon permit types, 55.7% (6,775/12,168) for all salmon set gillnet permits statewide, and 38.4% (14,545/37,832) 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, 1975-2017*, CFEC Report No. 18-2N.

Emergency Transfers of S04T 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.

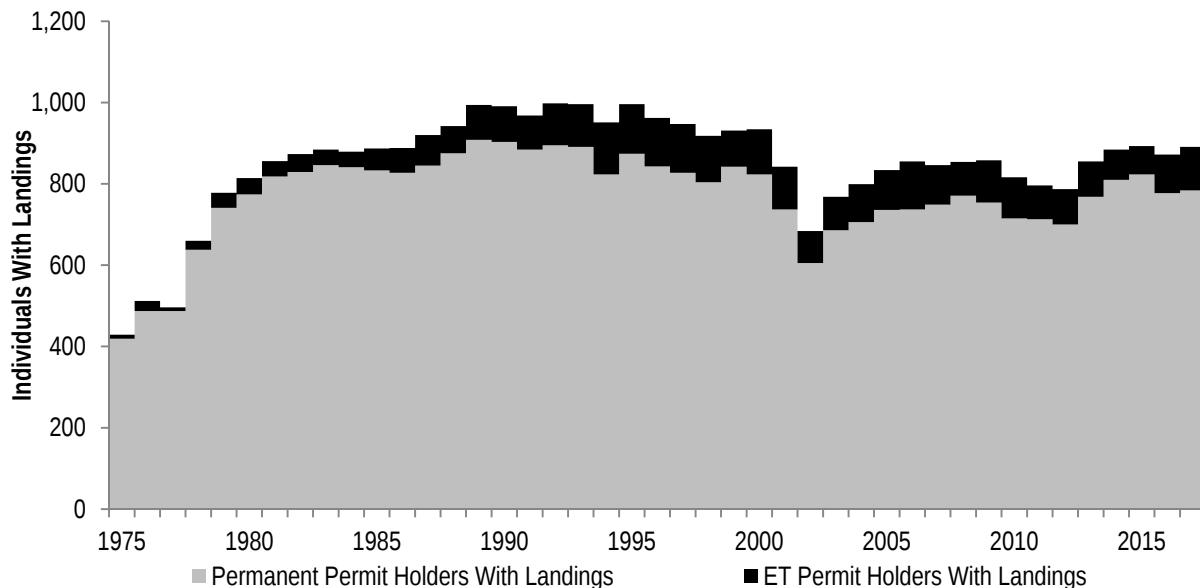
Table 2-4. Use of Emergency Transfer Permits in the Bristol Bay Set Gillnet Fishery, 1975-2017

Year	Individuals With Landings	ET Permit Holders With Landings	Rate ET
1975	429	10	2.3%
1976	512	25	4.9%
1977	496	9	1.8%
1978	660	22	3.3%
1979	778	37	4.8%
1980	814	40	4.9%
1981	856	38	4.4%
1982	873	44	5.0%
1983	884	38	4.3%
1984	879	38	4.3%
1985	887	54	6.1%
1986	888	61	6.9%
1987	920	75	8.2%
1988	942	67	7.1%
1989	994	86	8.7%

Year	Individuals With Landings	ET Permit Holders With Landings	Rate ET
1990	991	88	8.9%
1991	968	84	8.7%
1992	998	103	10.3%
1993	996	105	10.5%
1994	951	128	13.5%
1995	996	122	12.2%
1996	962	119	12.4%
1997	947	120	12.7%
1998	918	114	12.4%
1999	931	89	9.6%
2000	934	111	11.9%
2001	842	105	12.5%
2002	684	79	11.5%
2003	768	82	10.7%
2004	799	93	11.6%

Year	Individuals With Landings	ET Permit Holders With Landings	Rate ET
2005	834	98	11.8%
2006	855	118	13.8%
2007	846	97	11.5%
2008	854	83	9.7%
2009	858	104	12.1%
2010	816	101	12.4%
2011	796	83	10.4%
2012	787	87	11.1%
2013	855	87	10.2%
2014	884	74	8.4%
2015	893	70	7.8%
2016	872	95	10.9%
2017	891	107	12.0%

Figure 2-1. Use of Emergency Transfer Permits in the Bristol Bay Salmon Set Gillnet Fishery, 1975-2017



DNR Shore Fishery Leases in the Bristol Bay Set Gillnet Fishery

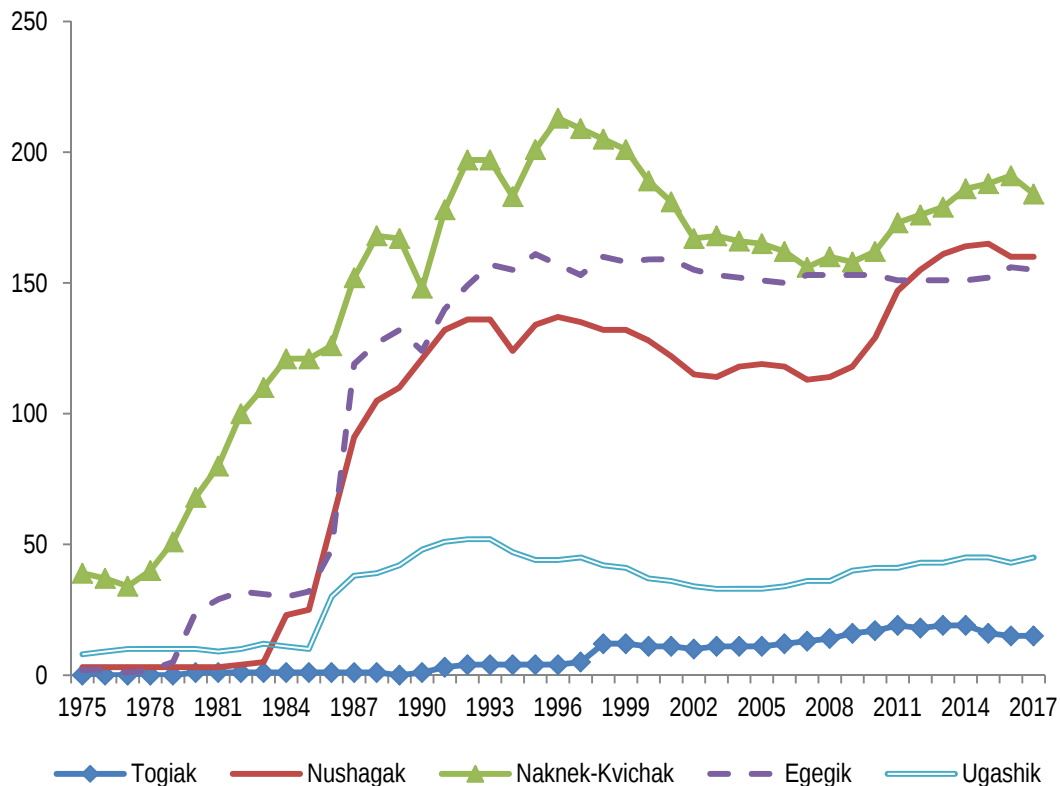
The Alaska Department of Natural Resources (DNR) administers a shore fishery lease program for the use of state owned and managed tidelands by CFEC set gillnet permit holders in Bristol Bay. A shore fishery lease grants permit holders the first right of priority to fish a tract of tidelands. Many permit holders obtain shore fishery leases, although a lease is not required in order to fish.

In Bristol Bay, the DNR shore fishery lease program allows a permit holder to maintain up to two tracts per permit.⁷ While some tracts are adjacent to one another, other tracts may be scattered miles apart. Additional information regarding DNR shore fishery leases can be found in CFEC publication 18-4N.⁸

In Table 2-5, the total number of Bristol Bay set gillnet permits, permits with landings, and permits with a DNR shore fishery lease as of December 31 is reported by district. The total permits by district include permits that either had landings documented within the fishing district or had a DNR lease. While there are no restrictions as to which district an S04T permit can be used for fishing, generally speaking, S04T permit holders did not make landings in more than one district. The counts of permits with DNR shore fishery leases is depicted by district in Figure 2-2.

Please see Appendix B for Bristol Bay DNR shore fishery lease site maps as of November 5, 2018.

Figure 2-2. Count of Permits With DNR Shore Fishery Leases by District in Bristol Bay, 1975-2017



⁷ See 11 AAC 24.0331(b)(1)(D).

⁸ See CFEC *Salmon Set Gillnet Permits and DNR Shore Fishery Leases in Prince William Sound, Cook Inlet, Kodiak, Alaska Peninsula, and Bristol Bay 1975-2017*. CFEC Report No. 18-4N.

Table 2-5. Bristol Bay Set Gillnet DNR Shore Fishery Leases by District

Year	Permits with Landings		Permits with DNR Lease		Togiak		Nushagak		Naknek-Kvichak		Egegik		Ugashik	
	Total Permits				With DNR Lease	Total Permits	With DNR Lease	Total Permits	With DNR Lease	Total Permits	With DNR Lease	Total Permits	With DNR Lease	Total Permits
1975	791	426	52		0	35	3	145	39	175	2	93	8	18
1976	761	502	51		0	36	3	179	37	212	2	98	9	23
1977	836	497	48		0	37	3	177	34	202	1	92	10	17
1978	906	656	55		0	51	3	229	40	283	2	131	10	16
1979	934	770	69		0	63	3	250	51	310	5	160	10	32
1980	947	807	107		1	63	3	250	68	354	24	188	10	35
1981	956	841	123		1	73	3	262	80	361	29	172	9	55
1982	958	859	148		1	72	4	264	100	358	32	175	10	59
1983	960	865	160		1	69	5	266	110	375	31	180	12	52
1984	962	869	187		1	76	23	264	121	357	30	190	11	65
1985	959	872	190		1	66	25	250	121	363	32	181	10	82
1986	963	870	263		1	103	58	285	126	320	48	194	30	83
1987	960	899	399		1	67	91	289	152	333	119	210	38	80
1988	959	922	438		1	122	105	286	168	359	127	196	39	72
1989	1,025	971	449		0	96	110	294	167	366	132	223	42	75
1990	1,028	971	439		1	75	121	347	148	442	124	222	48	71
1991	1,024	950	502		3	103	132	317	178	367	140	220	51	74
1992	1,025	968	535		4	116	136	301	197	357	149	211	52	70
1993	1,022	965	544		4	108	136	299	197	344	157	232	52	75
1994	1,019	939	513		4	115	124	302	183	338	155	230	47	73
1995	1,019	967	544		4	103	134	297	201	355	161	218	44	72
1996	1,017	941	555		4	111	137	285	213	357	157	215	44	61
1997	1,019	921	546		5	84	135	289	209	315	153	255	45	66
1998	1,015	901	550		12	83	132	285	205	317	160	222	42	61
1999	1,014	925	544		12	78	132	298	201	327	158	219	41	58
2000	1,012	921	524		11	88	128	302	189	334	159	216	37	58
2001	1,010	834	508		11	82	122	285	181	287	159	210	36	57
2002	1,006	680	481		10	60	115	236	167	283	155	191	34	46
2003	1,001	760	479		11	77	114	242	168	290	153	204	33	55
2004	989	795	480		11	73	118	249	166	298	152	202	33	50
2005	988	829	479		11	72	119	248	165	309	151	199	33	59
2006	985	844	476		12	77	118	241	162	318	150	203	34	60
2007	983	835	471		13	76	113	245	156	307	153	199	36	54
2008	979	850	477		14	74	114	255	160	297	153	201	36	57
2009	982	843	485		16	71	118	257	158	286	153	200	40	55
2010	982	868	502		17	78	129	278	162	293	153	203	41	55
2011	981	889	531		19	84	147	291	173	284	151	202	41	55
2012	979	893	543		18	87	155	285	176	283	151	205	43	58
2013	978	857	553		19	82	161	278	179	275	151	202	43	61
2014	977	878	565		19	81	164	284	186	281	151	206	45	79
2015	975	887	566		16	84	165	283	188	283	152	204	45	62
2016	971	861	565		15	81	160	290	191	275	156	201	43	57
2017	972	881	559		15	83	160	289	184	284	155	202	45	61

Latent S04T 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.

Several complications make it difficult to accurately count the number of latent permits; therefore the figures should be viewed with caution. In some cases, permits might be active in the fishery but might not be used to record landings. This can occur when permit holders fish in a group, especially among family or friends, and the group records their landings on only one, or some, of the group's permits. Although this practice is not legal,⁹ it allegedly occurs in the set gillnet fisheries at a rate higher than in other fisheries. The effect would be to under-count the number of permits active in the fishery, and over-estimate the latency rate.

Individuals who hold a DNR Shore Fishery Lease are required by regulation to fish at least four openings in years when they hold a lease, unless they refrain for no more than one year from using the site.¹⁰ The 'Permits Fished and/or DNR Lease' column counts permits that either held a DNR Shore Fishery Lease or made a commercial landing. The actual annual rate of latency likely lies between the rates given in this table.

There are many reasons why an individual might not fish in any given year. This table does not explain any of these reasons, but simply estimates the rate of permit latency.

**Table 2-6. Bristol Bay Salmon Set Gillnet
Permit Latency, 1975-2017**

Year	Total Permits Issued	Permits Fished	Latency Rate	Permits Fished and/or DNR Lease	Latency Rate
1975	791	426	46.1%	449	43.2%
1976	761	502	34.0%	522	31.4%
1977	836	497	40.6%	519	37.9%
1978	906	656	27.6%	674	25.6%
1979	934	770	17.6%	779	16.6%
1980	947	807	14.8%	820	13.4%
1981	956	841	12.0%	853	10.8%
1982	958	859	10.3%	870	9.2%
1983	960	865	9.9%	882	8.1%
1984	962	869	9.7%	880	8.5%
1985	959	872	9.1%	877	8.6%
1986	963	870	9.7%	884	8.2%
1987	960	899	6.4%	914	4.8%
1988	959	922	3.9%	930	3.0%
1989	1,025	971	5.3%	976	4.8%
1990	1,028	971	5.5%	981	4.6%
1991	1,024	950	7.2%	967	5.6%
1992	1,025	968	5.6%	979	4.5%
1993	1,022	965	5.6%	979	4.2%
1994	1,019	939	7.9%	956	6.2%
1995	1,019	967	5.1%	985	3.3%
1996	1,017	941	7.5%	967	4.9%
1997	1,019	921	9.6%	953	6.5%
1998	1,015	901	11.2%	940	7.4%
1999	1,014	925	8.8%	957	5.6%
2000	1,012	921	9.0%	943	6.8%
2001	1,010	834	17.4%	891	11.8%
2002	1,006	680	32.4%	799	20.6%
2003	1,001	760	24.1%	846	15.5%
2004	989	795	19.6%	856	13.4%
2005	988	829	16.1%	874	11.5%
2006	985	844	14.3%	884	10.3%
2007	983	835	15.1%	872	11.3%
2008	979	850	13.2%	878	10.3%
2009	982	843	14.2%	860	12.4%
2010	982	868	11.6%	889	9.5%
2011	981	889	9.4%	905	7.7%
2012	979	893	8.8%	905	7.6%
2013	978	857	12.4%	892	8.8%
2014	977	878	10.1%	907	7.2%
2015	975	887	9.0%	908	6.9%
2016	971	861	11.3%	894	7.9%
2017	972	881	9.4%	909	6.5%

- When an individual with an interim-entry permit is issued a permanent permit in the same year, only the permanent permit is counted.
- 'Permits Fished' is the number of CFEC permits that were used to record commercial landings in that year.
- 'Permits Fished and/or DNR Lease' is the number of CFEC permits that were used to record a landing, or were associated with a DNR shore fishery lease.

⁹ See AS 16.05.680 (b) and AS 16.05.690 (b).

¹⁰ See 11 AAC 64.180.

New Entrants into the Bristol Bay Salmon Set Gillnet Fishery

New entrants are defined herein as individuals who, for the first time, record a landing on a permanent S04T permit. It is important to note that initial permit holders are not considered new entrants because they needed a proven fishing history prior to 1975 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.

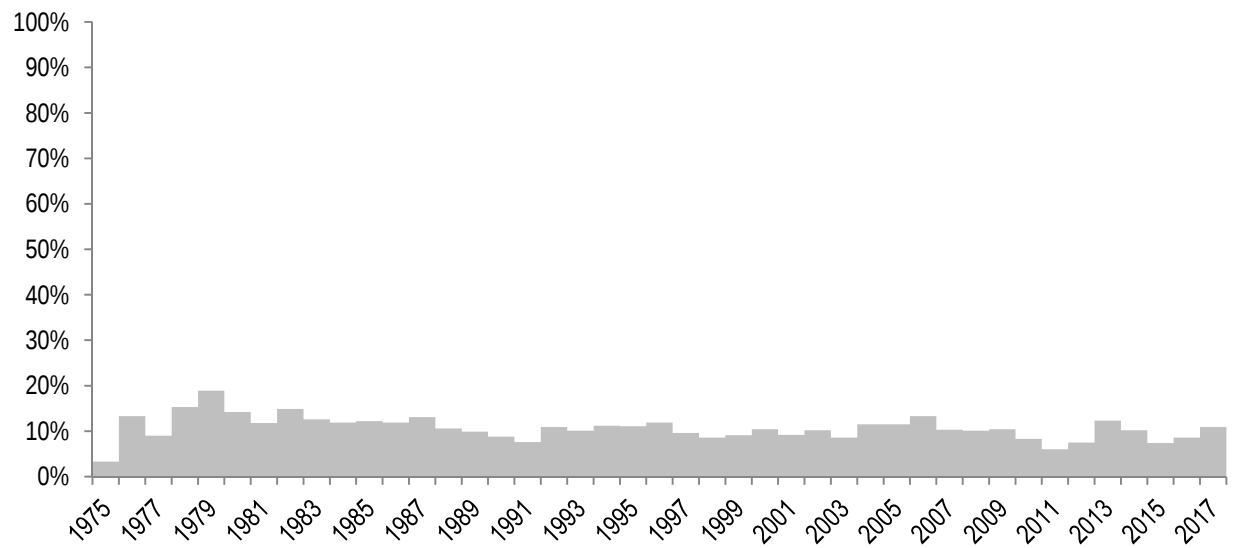
Table 2-7 and Figure 2-3 describe individuals rather than permits. An individual may hold up to two permits in this fishery, but can only fish one of them. An individual may hold one S04T permit one year, and then in subsequent years hold a different S04T permit. Likewise, individuals may enter and exit 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 2-7. New Entrants into the Bristol Bay Salmon Set Gillnet Fishery, 1975-2017

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
1975	361	12	3.3%	1986	866	103	11.9%	1997	942	90	9.6%	2008	854	86	10.1%
1976	511	68	13.3%	1987	901	118	13.1%	1998	912	78	8.6%	2009	858	89	10.4%
1977	488	44	9.0%	1988	924	98	10.6%	1999	925	84	9.1%	2010	816	68	8.3%
1978	646	99	15.3%	1989	978	97	9.9%	2000	930	97	10.4%	2011	796	48	6.0%
1979	755	143	18.9%	1990	976	86	8.8%	2001	841	77	9.2%	2012	787	59	7.5%
1980	780	111	14.2%	1991	955	73	7.6%	2002	683	70	10.2%	2013	855	105	12.3%
1981	820	97	11.8%	1992	987	108	10.9%	2003	767	66	8.6%	2014	884	90	10.2%
1982	833	124	14.9%	1993	990	100	10.1%	2004	799	92	11.5%	2015	893	66	7.4%
1983	849	107	12.6%	1994	946	106	11.2%	2005	834	96	11.5%	2016	872	75	8.6%
1984	855	102	11.9%	1995	989	110	11.1%	2006	855	114	13.3%	2017	891	97	10.9%
1985	861	105	12.2%	1996	957	114	11.9%	2007	846	87	10.3%				

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

Figure 2-3. New Entrants into the Bristol Bay Salmon Set Gillnet Fishery, 1975-2017



Age of S04T Permit Holders

Table 2-8. Mean Age of Select CFEC Permit Holders and the General Alaskan Population

Year	S04T	Combined Bristol Bay Salmon	Statewide Salmon Set Gillnet	Statewide All Permits	Mean AK Working Age
1980	34.8	40.1	37.9	38.9	33.4
1981	34.8	40.0	38.0	39.9	33.5
1982	35.5	39.8	38.2	40.0	33.6
1983	35.6	39.8	38.0	40.2	33.7
1984	36.3	40.2	38.2	40.4	33.8
1985	36.9	40.6	38.5	40.8	34.0
1986	37.1	40.8	38.8	41.0	34.2
1987	37.7	41.2	39.0	40.9	34.5
1988	37.7	41.4	39.3	41.2	34.9
1989	39.1	42.0	39.9	41.5	35.3
1990	39.4	42.5	40.0	42.0	35.5
1991	39.9	42.9	40.5	42.5	35.9
1992	40.1	43.2	40.8	42.9	36.2
1993	40.9	43.7	41.2	43.5	36.5
1994	41.3	44.1	41.5	44.0	36.7
1995	41.8	44.4	41.9	44.4	37.0
1996	42.0	44.6	42.3	44.8	37.2
1997	42.1	45.0	42.6	45.1	37.4
1998	42.7	45.3	43.1	45.6	37.6
1999	43.0	45.7	43.4	46.0	37.8
2000	42.9	46.0	43.7	46.4	37.9
2001	43.2	46.3	44.1	46.9	38.1
2002	43.9	47.0	44.8	47.4	38.3
2003	44.2	47.2	45.2	47.9	38.4
2004	44.2	47.2	45.4	48.2	38.6
2005	43.5	46.7	45.4	48.4	38.7
2006	43.2	46.6	45.6	48.7	38.8
2007	43.7	46.3	45.9	48.9	38.9
2008	43.8	46.4	45.9	49.0	39.0
2009	43.8	46.4	46.1	49.3	39.1
2010	44.1	46.3	46.3	49.5	39.2
2011	44.3	46.6	46.6	49.6	39.4
2012	45.1	46.7	47.0	49.8	39.4
2013	44.3	46.4	47.0	50.0	39.5
2014	44.5	46.5	47.2	50.2	39.5
2015	45.0	46.8	47.6	50.6	39.5
2016	45.7	47.2	48.0	50.9	39.6
2017	46.1	47.3	48.2	51.3	39.6

- 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 2-8 shows the annual mean age of five different cohorts of people: 1) Bristol Bay salmon set gillnet (S04T) permit holders; 2) combined Bristol Bay 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 6.1 years between 1980 and 2017, which represents an 18.4% increase. The percent change in ages over the same period for all CFEC permit holders was 31.7% (12.4 years), 27.4% (10.4 years) for the statewide set gillnet permit holders, and 18.1% (7.3 years) for the combined Bristol Bay salmon permit holders.

For S04T permit holders, the mean age increased 32.6% (11.4 years).

S04T Permit Stacking

From 2010 through 2012, an Alaska Board of Fisheries regulation allowed for stacked permit operations. A stacked permit operation is where an individual who holds two permits is allowed to fish two full complements of gear. CFEC completed an in depth analysis of S04T permit stacking in 2012.¹¹

Stacked permit operations are identified in this section when a permit holder makes at least one landing while holding two permits. Stacked permit operations can be composed of permanently held permits, emergency transfer permits, or through a combination of the two. Table 2-9 identifies the composition of stacked and single permit operations by resident type.

Table 2-9. Single and Stacked Permit Operations by Resident Type

Year	Residency	Single Permit Operations		Stacked Permit Operations			Total Single	Total Stacked	Total
		Permanent	ET	Permanent and ET	Permanent	ET			
2010	Local	241	37	14	6	0	278	20	298
	Nonlocal	196	18	6	20	0	214	26	240
	Nonresident	234	22	7	13	2	256	22	278
	Total	671	77	27	39	2	748	68	816
2011	Local	248	36	5	10	1	284	16	300
	Nonlocal	171	19	3	38	2	190	43	233
	Nonresident	209	12	7	33	2	221	42	263
	Total	628	67	15	81	5	695	101	796
2012	Local	235	44	5	12	3	279	20	299
	Nonlocal	174	16	4	36	1	190	41	231
	Nonresident	193	10	2	48	4	203	54	257
	Total	602	70	11	96	8	672	115	787

Tables 2-10 and 2-11 include the source and acquisition method for the second permit held by individuals at year end. A large portion of permits were sourced from family members which is typical for set gillnet permits. The majority of permits were acquired as gifts. The years permit stacking regulations were in place are bolded for each of these two tables.

Table 2-11. Source of the Second S04T Permit

Year	Friend/ Partner	Immediate Family	Other Relative	Other	Unknown
2003	0	0	0	2	0
2007	0	1	0	1	0
2008	0	0	1	2	0
2009	0	0	1	2	0
2010	9	27	4	15	0
2011	16	44	5	30	0
2012	21	46	4	34	0
2013	1	4	0	3	0
2014	0	4	0	0	0
2015	0	2	0	1	0
2016	2	3	0	1	0
2017	2	3	0	1	0

Table 2-10. Transfer Acquisition Method for the Second S04T Permit

Year	Gift	Sale	Trade	Other	Unknown
2003	0	2	0	0	0
2007	1	1	0	0	0
2008	0	3	0	0	0
2009	1	2	0	0	0
2010	33	21	0	1	0
2011	57	36	0	2	0
2012	58	45	0	2	0
2013	3	5	0	0	0
2014	4	0	0	0	0
2015	2	1	0	0	0
2016	5	1	0	0	0
2017	3	3	0	0	0

¹¹ See *Bristol Bay Set Gillnet Permit Stacking*, CFEC Report No. 12-2N.

Table 2-12 compares the level of participation, effort, and real (2017 CPI) earnings for both single and stacked permit operations. Effort is defined as the number of complements of gear allowed; stacked permit operations were allowed to deploy two units of gear, and single permit operations can only deploy one unit of gear.

Table 2-12. Bristol Bay Salmon Set Gillnet Participation, Effort, and Real Earnings by Operation and Resident Type, 2010-2012

Year	Residency	Operation Type	Individuals with Landings	Effort	Real Gross Earnings	Average Gross Earnings	Individuals	Percent of Gross Earnings
2010	Local	Stacked	20	40	\$1,561,656	\$78,083	2.5%	4.5%
		Single	278	278	\$10,478,199	\$37,691	34.1%	30.0%
		Combined	298	318	\$12,039,855	\$40,402	36.5%	34.5%
	Nonlocal	Stacked	26	52	\$2,645,805	\$101,762	3.2%	7.6%
		Single	214	214	\$7,502,970	\$35,061	26.2%	21.5%
		Combined	240	266	\$10,148,775	\$42,287	29.4%	29.1%
	Nonresident	Stacked	22	44	\$2,086,047	\$94,820	2.7%	6.0%
		Single	256	256	\$10,597,705	\$41,397	31.4%	30.4%
		Combined	278	300	\$12,683,752	\$45,625	34.1%	36.4%
Total		Stacked	68	136	\$6,293,508	\$92,552	8.3%	18.0%
		Single	748	748	\$28,578,874	\$38,207	91.7%	82.0%
		Combined	816	884	\$34,872,382	\$42,736	100.0%	100.0%
2011	Local	Stacked	16	32	\$1,166,680	\$72,918	2.0%	3.9%
		Single	284	284	\$9,793,604	\$34,485	35.7%	32.8%
		Combined	300	316	\$10,960,285	\$36,534	37.7%	36.7%
	Nonlocal	Stacked	43	86	\$3,108,457	\$72,290	5.4%	10.4%
		Single	190	190	\$5,634,700	\$29,656	23.9%	18.9%
		Combined	233	276	\$8,743,157	\$37,524	29.3%	29.3%
	Nonresident	Stacked	42	84	\$2,729,522	\$64,989	5.3%	9.2%
		Single	221	221	\$7,392,410	\$33,450	27.8%	24.8%
		Combined	263	305	\$10,121,932	\$38,486	33.0%	33.9%
Total		Stacked	101	202	\$7,004,659	\$69,353	12.7%	23.5%
		Single	695	695	\$22,820,714	\$32,836	87.3%	76.5%
		Combined	796	897	\$29,825,373	\$37,469	100.0%	100.0%
2012	Local	Stacked	20	40	\$1,119,710	\$55,986	2.5%	4.2%
		Single	279	279	\$7,507,210	\$26,908	35.5%	28.4%
		Combined	299	319	\$8,626,920	\$28,853	38.0%	32.7%
	Nonlocal	Stacked	41	82	\$2,728,717	\$66,554	5.2%	10.3%
		Single	190	190	\$5,182,530	\$27,276	24.1%	19.6%
		Combined	231	272	\$7,911,247	\$34,248	29.4%	30.0%
	Nonresident	Stacked	54	108	\$3,470,571	\$64,270	6.9%	13.1%
		Single	203	203	\$6,394,398	\$31,499	25.8%	24.2%
		Combined	257	311	\$9,864,969	\$38,385	32.7%	37.4%
Total		Stacked	115	230	\$7,318,998	\$63,643	14.6%	27.7%
		Single	672	672	\$19,084,139	\$28,399	85.4%	72.3%
		Combined	787	902	\$26,403,137	\$33,549	100.0%	100.0%

- Real ex-vessel values were calculated using the 2017 Consumer Price Index from the U.S. Bureau of Labor Statistics.

S04T Permit Value

Many permit transfers are non-monetary transactions (see Table 2-2). Table 2-13 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 2-13. CFEC Estimated Value of Bristol Bay Salmon Set Gillnet Permits

Year	S04T Permit Sales	Nominal Permit Value Standard Deviation	Real Permit Value Standard Deviation
1982	72	\$37,394 -	\$94,985 -
1983	50	\$41,246 -	\$101,508 -
1984	47	\$41,533 -	\$97,984 -
1985	48	\$35,974 -	\$81,951 -
1986	61	\$33,054 -	\$73,925 -
1987	64	\$35,254 -	\$76,069 -
1988	50	\$46,508 -	\$96,366 -
1989	36	\$61,125 -	\$120,830 -
1990	29	\$65,179 -	\$122,239 -
1991	39	\$59,500 \$9,150	\$107,083 \$16,467
1992	46	\$49,800 \$6,250	\$87,006 \$10,919
1993	30	\$49,100 \$6,900	\$83,290 \$11,705
1994	28	\$37,800 \$5,450	\$62,520 \$9,014
1995	35	\$42,200 \$4,850	\$67,874 \$7,801
1996	48	\$41,100 \$5,700	\$64,209 \$8,905
1997	33	\$39,000 \$6,050	\$59,562 \$9,240
1998	29	\$30,400 \$4,000	\$45,716 \$6,015
1999	31	\$31,300 \$5,450	\$46,052 \$8,019
2000	33	\$32,400 \$3,450	\$46,120 \$4,911
2001	31	\$25,300 \$5,600	\$35,017 \$7,751
2002	26	\$12,100 \$2,950	\$16,487 \$4,019
2003	31	\$12,600 \$3,150	\$16,785 \$4,196
2004	34	\$14,300 \$3,100	\$18,556 \$4,023
2005	44	\$15,100 \$2,400	\$18,952 \$3,012
2006	41	\$22,400 \$4,200	\$27,236 \$5,107
2007	29	\$24,000 \$3,200	\$28,373 \$3,783
2008	28	\$27,400 \$2,600	\$31,195 \$2,960
2009	44	\$28,200 \$2,250	\$32,220 \$2,571
2010	47	\$28,700 \$3,000	\$32,262 \$3,372
2011	38	\$35,900 \$4,950	\$39,121 \$5,394
2012	28	\$40,300 \$2,500	\$43,025 \$2,669
2013	23	\$39,900 \$2,500	\$41,983 \$2,631
2014	20	\$38,600 \$1,950	\$39,967 \$2,019
2015	14	\$38,500 \$4,950	\$39,816 \$5,119
2016	17	\$33,700 \$4,000	\$34,418 \$4,085
2017	13	\$38,700 \$2,400	\$38,700 \$2,400

- 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.
- The Standard Deviation was not calculated prior to 1991.
- Real permit values were calculated using the 2017 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 2017 Consumer Price Index from the U.S. Bureau of Labor Statistics.

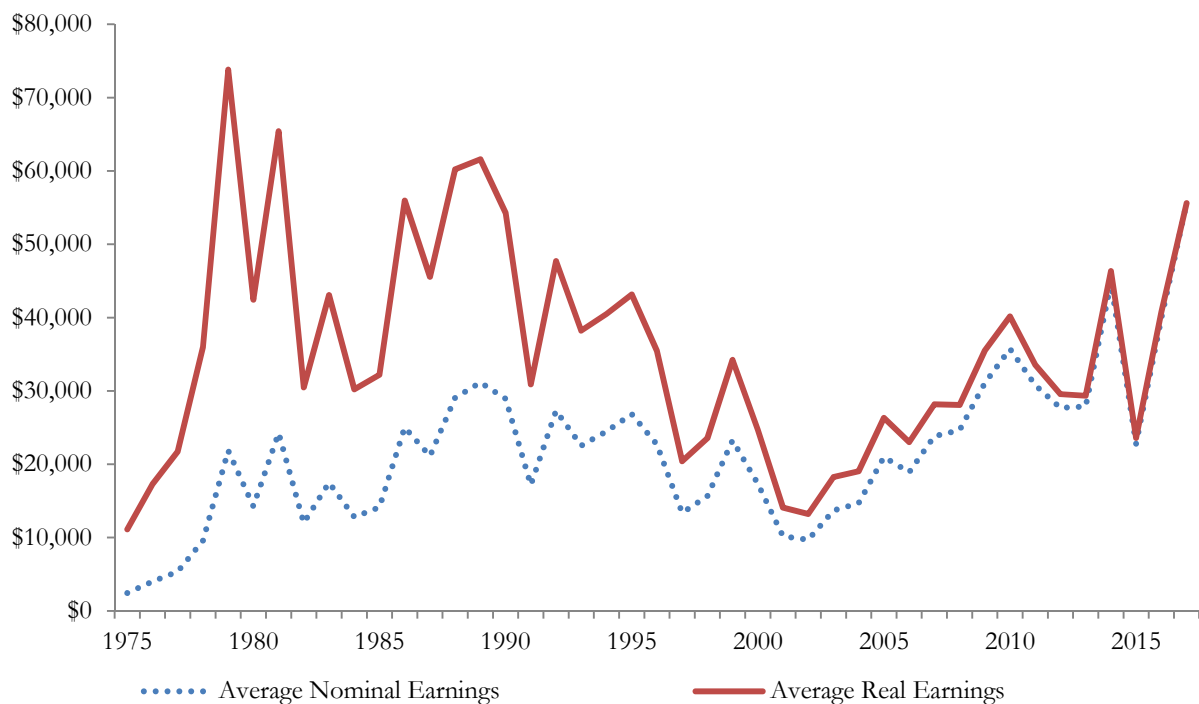
Permit counts include interim-entry permits and permanent permits. Interim-entry permits are issued to individuals during the period when their applications for permanent permits are in adjudication. The last year an interim-entry permit was held in the Bristol Bay salmon set gillnet fishery was in 2004. 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 2-14 reports the number of permits, permit issued, and vessels with landings, and estimated gross earnings in the Bristol Bay salmon set gillnet fishery from 1975 to 2017. 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 2-15 reports the number of permit holders (people) and estimated real (inflation adjusted) gross earnings by each resident type.

Table 2-16 breaks out participation and real earnings by ADF&G salmon management area. Note that some permits are used to record landings in more than one district.

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



- Real earnings are adjusted for inflation using the 2017 U.S. Bureau of Labor Statistics Consumer Price Index.

Table 2-14. Estimated Total Gross Earnings (Real and Nominal) for the Bristol Bay Salmon Set Gillnet Fishery, With Average Gross (Real) Earnings by Permit and Vessel, 1975-2017

Year	Permits Issued	Total Gross Earnings		Permits Fished	Average Real Earnings
		Nominal	Real		
1975	791	\$1,039,384	\$4,735,573	426	\$11,116
1976	761	\$2,016,773	\$8,688,072	502	\$17,307
1977	836	\$2,670,321	\$10,801,140	497	\$21,733
1978	906	\$6,279,377	\$23,607,377	656	\$35,987
1979	934	\$16,834,409	\$56,838,159	770	\$73,816
1980	947	\$11,513,369	\$34,249,479	807	\$42,440
1981	956	\$20,399,307	\$55,008,560	841	\$65,409
1982	958	\$10,309,026	\$26,185,993	859	\$30,484
1983	960	\$15,140,674	\$37,261,868	865	\$43,077
1984	962	\$11,131,822	\$26,262,101	869	\$30,221
1985	959	\$12,323,913	\$28,074,699	872	\$32,196
1986	963	\$21,769,265	\$48,686,882	870	\$55,962
1987	960	\$18,980,677	\$40,955,488	899	\$45,557
1988	959	\$26,800,446	\$55,531,068	922	\$60,229
1989	1,025	\$30,255,514	\$59,808,319	971	\$61,595
1990	1,028	\$28,092,907	\$52,686,560	971	\$54,260
1991	1,024	\$16,309,468	\$29,352,252	950	\$30,897
1992	1,025	\$26,438,867	\$46,191,697	968	\$47,719
1993	1,022	\$21,748,260	\$36,892,274	965	\$38,230
1994	1,019	\$22,989,161	\$38,023,638	939	\$40,494
1995	1,019	\$25,943,184	\$41,726,990	967	\$43,151
1996	1,017	\$21,373,407	\$33,391,010	941	\$35,485
1997	1,019	\$12,312,359	\$18,803,772	921	\$20,417
1998	1,015	\$14,112,720	\$21,222,760	901	\$23,555
1999	1,014	\$21,521,112	\$31,664,195	925	\$34,232
2000	1,012	\$15,980,140	\$22,747,108	921	\$24,698
2001	1,010	\$8,491,102	\$11,752,338	834	\$14,092
2002	1,006	\$6,596,599	\$8,988,095	680	\$13,218
2003	1,001	\$10,416,508	\$13,876,601	760	\$18,259
2004	989	\$11,663,522	\$15,134,794	795	\$19,037
2005	988	\$17,398,701	\$21,837,017	829	\$26,341
2006	985	\$15,971,228	\$19,418,986	844	\$23,008
2007	983	\$19,899,763	\$23,525,528	835	\$28,174
2008	979	\$20,955,694	\$23,857,818	850	\$28,068
2009	982	\$26,211,898	\$29,948,496	843	\$35,526
2010	982	\$31,022,079	\$34,872,382	868	\$40,176
2011	981	\$27,369,817	\$29,825,373	889	\$33,549
2012	979	\$24,730,751	\$26,403,137	893	\$29,567
2013	978	\$23,895,161	\$25,142,760	857	\$29,338
2014	977	\$39,293,065	\$40,684,628	878	\$46,338
2015	975	\$20,218,565	\$20,909,786	887	\$23,574
2016	971	\$34,356,275	\$35,088,186	861	\$40,753
2017	972	\$48,995,471	\$48,995,471	881	\$55,613

- Adjusted for inflation to 2017 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 2-15. Estimated Real Gross Earnings for Permit Holders in the Bristol Bay Salmon Set Gillnet Fishery by Resident Type, 1975-2017

Year	Local			Nonlocal			Nonresident			Total		
	People	Average	Total	People	Average	Total	People	Average	Total	People	Average	Total
1975	289	\$10,383	\$3,000,819	78	\$10,668	\$832,105	62	\$14,559	\$902,649	429	\$11,039	\$4,735,573
1976	327	\$16,742	\$5,474,546	87	\$16,915	\$1,471,583	98	\$17,775	\$1,741,943	512	\$16,969	\$8,688,072
1977	319	\$19,758	\$6,302,838	80	\$23,437	\$1,874,984	97	\$27,045	\$2,623,318	496	\$21,776	\$10,801,140
1978	407	\$32,817	\$13,356,541	128	\$44,727	\$5,725,054	125	\$36,206	\$4,525,782	660	\$35,769	\$23,607,377
1979	458	\$62,732	\$28,731,386	172	\$90,924	\$15,638,986	148	\$84,242	\$12,467,787	778	\$73,057	\$56,838,159
1980	446	\$34,163	\$15,236,632	195	\$55,165	\$10,757,245	173	\$47,720	\$8,255,602	814	\$42,076	\$34,249,479
1981	465	\$55,881	\$25,984,576	203	\$73,588	\$14,938,446	188	\$74,923	\$14,085,538	856	\$64,262	\$55,008,560
1982	446	\$26,017	\$11,603,379	229	\$33,924	\$7,768,695	198	\$34,414	\$6,813,920	873	\$29,995	\$26,185,993
1983	439	\$35,513	\$15,590,273	233	\$48,358	\$11,267,355	212	\$49,077	\$10,404,239	884	\$42,151	\$37,261,868
1984	436	\$26,721	\$11,650,155	236	\$34,093	\$8,045,906	207	\$31,720	\$6,566,040	879	\$29,877	\$26,262,101
1985	432	\$27,210	\$11,754,541	251	\$35,790	\$8,983,180	204	\$35,966	\$7,336,978	887	\$31,651	\$28,074,699
1986	433	\$50,403	\$21,824,614	255	\$59,312	\$15,124,619	200	\$58,688	\$11,737,650	888	\$54,828	\$48,686,882
1987	443	\$39,039	\$17,294,408	261	\$49,863	\$13,014,222	216	\$49,291	\$10,646,858	920	\$44,517	\$40,955,488
1988	457	\$54,720	\$25,007,048	264	\$59,492	\$15,705,777	221	\$67,051	\$14,818,243	942	\$58,950	\$55,531,068
1989	481	\$48,331	\$23,247,019	280	\$67,160	\$18,804,681	233	\$76,209	\$17,756,619	994	\$60,169	\$59,808,319
1990	459	\$46,154	\$21,184,595	291	\$55,964	\$16,285,639	241	\$63,138	\$15,216,326	991	\$53,165	\$52,686,560
1991	437	\$29,861	\$13,049,274	289	\$29,045	\$8,394,000	242	\$32,682	\$7,908,979	968	\$30,323	\$29,352,252
1992	451	\$39,384	\$17,761,989	293	\$49,320	\$14,450,865	254	\$55,035	\$13,978,842	998	\$46,284	\$46,191,697
1993	460	\$30,737	\$14,139,232	282	\$40,846	\$11,518,506	254	\$44,230	\$11,234,535	996	\$37,040	\$36,892,274
1994	432	\$33,997	\$14,686,855	270	\$45,254	\$12,218,546	249	\$44,652	\$11,118,237	951	\$39,983	\$38,023,638
1995	448	\$37,533	\$16,814,592	292	\$43,892	\$12,816,565	256	\$47,249	\$12,095,833	996	\$41,895	\$41,726,990
1996	419	\$32,178	\$13,482,760	294	\$35,514	\$10,441,125	249	\$38,021	\$9,467,125	962	\$34,710	\$33,391,010
1997	410	\$14,255	\$5,844,741	285	\$23,483	\$6,692,787	252	\$24,866	\$6,266,243	947	\$19,856	\$18,803,772
1998	393	\$19,748	\$7,761,047	273	\$24,655	\$6,730,875	252	\$26,710	\$6,730,839	918	\$23,118	\$21,222,760
1999	386	\$28,990	\$11,190,296	292	\$36,000	\$10,512,086	253	\$39,375	\$9,961,812	931	\$34,011	\$31,664,195
2000	370	\$23,207	\$8,586,705	293	\$24,773	\$7,258,533	271	\$25,468	\$6,901,870	934	\$24,355	\$22,747,108
2001	335	\$14,907	\$4,993,898	261	\$14,142	\$3,691,173	246	\$12,469	\$3,067,267	842	\$13,958	\$11,752,338
2002	288	\$10,431	\$3,004,269	184	\$15,182	\$2,793,490	212	\$15,049	\$3,190,336	684	\$13,140	\$8,988,095
2003	299	\$18,941	\$5,663,412	232	\$17,815	\$4,132,989	237	\$17,216	\$4,080,199	768	\$18,068	\$13,876,601
2004	295	\$14,180	\$4,183,133	244	\$21,077	\$5,142,747	260	\$22,342	\$5,808,914	799	\$18,942	\$15,134,794
2005	305	\$22,961	\$7,003,138	262	\$27,879	\$7,304,283	267	\$28,201	\$7,529,596	834	\$26,183	\$21,837,017
2006	315	\$21,769	\$6,857,284	264	\$23,162	\$6,114,658	276	\$23,359	\$6,447,043	855	\$22,712	\$19,418,986
2007	307	\$26,859	\$8,245,781	257	\$27,764	\$7,135,322	282	\$28,881	\$8,144,424	846	\$27,808	\$23,525,528
2008	307	\$28,020	\$8,602,141	262	\$27,211	\$7,129,232	285	\$28,514	\$8,126,445	854	\$27,937	\$23,857,818
2009	303	\$31,261	\$9,471,955	265	\$34,895	\$9,247,239	290	\$38,722	\$11,229,302	858	\$34,905	\$29,948,496
2010	298	\$40,402	\$12,039,855	240	\$42,287	\$10,148,775	278	\$45,625	\$12,683,752	816	\$42,736	\$34,872,382
2011	300	\$36,534	\$10,960,285	233	\$37,524	\$8,743,157	263	\$38,486	\$10,121,932	796	\$37,469	\$29,825,373
2012	299	\$28,853	\$8,626,920	231	\$34,248	\$7,911,247	257	\$38,385	\$9,864,969	787	\$33,549	\$26,403,137
2013	313	\$27,408	\$8,578,855	238	\$30,394	\$7,233,720	304	\$30,691	\$9,330,184	855	\$29,407	\$25,142,760
2014	314	\$44,133	\$13,857,678	249	\$44,282	\$11,026,342	321	\$49,223	\$15,800,607	884	\$46,023	\$40,684,628
2015	320	\$22,432	\$7,178,231	250	\$22,658	\$5,664,436	323	\$24,976	\$8,067,119	893	\$23,415	\$20,909,786
2016	325	\$39,161	\$12,727,447	239	\$39,704	\$9,489,286	308	\$41,790	\$12,871,453	872	\$40,239	\$35,088,186
2017	319	\$47,624	\$15,192,151	253	\$56,394	\$14,267,782	319	\$61,240	\$19,535,538	891	\$54,989	\$48,995,471

- Adjusted for inflation to 2017 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.

Bristol Bay Salmon Set Gillnet (S04T)

Table 2-16. Gross Real Earnings for the Bristol Bay Salmon Set Gillnet Fishery by ADF&G Salmon District, 1975 to 2017

Year	Togiak		Nushagak		Naknek-Kvichak		Egegik		Ugashik		Other		Total	
	Permits	Gross Earnings	Permits	Gross Earnings	Permits	Gross Earnings	Permits	Gross Earnings	Permits	Gross Earnings	Permits	Gross Earnings	Permits	Gross Earnings
1975	35	\$275,660	143	\$1,492,884	158	\$1,916,000	93	\$1,020,957	14	\$29,701	1	\$371	426	\$4,735,573
1976	36	\$597,606	178	\$3,203,313	197	\$2,834,030	97	\$1,746,401	20	\$272,672	6	\$34,051	502	\$8,688,072
1977	37	\$904,714	176	\$2,052,472	188	\$4,056,238	92	\$3,513,653	9	\$228,618	8	\$45,445	497	\$10,801,140
1978	51	\$2,061,642	229	\$9,795,018	273	\$8,007,708	131	\$3,621,450	6	\$16,733	8	\$104,825	656	\$23,607,377
1979	63	\$1,746,069	250	\$10,699,625	302	\$29,116,439	159	\$10,627,256	28	\$1,272,960	337	\$3,375,810	770	\$56,838,159
1980	63	\$1,814,450	250	\$8,067,205	348	\$15,523,973	183	\$7,474,283	31	\$1,135,375	16	\$234,192	807	\$34,249,479
1981	73	\$2,292,066	262	\$19,566,746	351	\$16,636,409	170	\$13,046,619	53	\$3,330,227	21	\$136,492	841	\$55,008,560
1982	72	\$1,632,401	263	\$8,602,208	349	\$7,534,113	173	\$5,565,154	57	\$2,433,600	18	\$418,517	859	\$26,185,993
1983	69	\$1,542,173	265	\$8,495,866	362	\$15,904,044	175	\$9,030,588	49	\$2,249,276	7	\$39,919	865	\$37,261,868
1984	76	\$1,496,503	264	\$5,508,043	346	\$12,150,222	188	\$4,610,868	63	\$2,319,328	15	\$177,139	869	\$26,262,101
1985	66	\$1,046,460	250	\$6,216,959	354	\$11,186,149	181	\$6,181,525	81	\$3,234,942	18	\$208,664	872	\$28,074,699
1986	103	\$2,503,215	282	\$14,107,191	303	\$17,839,506	190	\$9,453,414	82	\$4,745,472	7	\$38,084	870	\$48,686,882
1987	66	\$2,818,600	282	\$13,032,448	317	\$13,078,754	206	\$9,435,736	78	\$2,442,211	9	\$147,740	899	\$40,955,488
1988	121	\$8,842,251	282	\$12,215,036	353	\$13,608,431	193	\$15,966,404	70	\$4,541,388	14	\$357,557	922	\$55,531,068
1989	96	\$982,684	288	\$18,163,849	364	\$21,405,587	217	\$13,494,983	68	\$5,666,835	18	\$94,381	971	\$59,808,319
1990	75	\$1,064,190	342	\$13,910,491	438	\$24,526,398	215	\$10,570,706	64	\$2,427,558	15	\$187,217	971	\$52,686,560
1991	103	\$2,247,416	311	\$9,926,151	357	\$9,437,002	212	\$4,940,267	63	\$2,718,584	12	\$82,834	950	\$29,352,252
1992	116	\$3,800,023	297	\$11,380,415	349	\$12,037,295	205	\$14,881,636	67	\$3,873,654	18	\$218,673	968	\$46,191,697
1993	108	\$2,150,694	293	\$10,675,206	333	\$10,170,452	226	\$10,886,209	71	\$2,865,634	11	\$144,078	965	\$36,892,274
1994	115	\$2,534,376	295	\$9,256,904	322	\$15,540,476	224	\$7,627,793	68	\$2,864,039	9	\$200,051	939	\$38,023,638
1995	103	\$2,712,774	292	\$10,972,215	347	\$16,329,394	207	\$10,048,495	67	\$1,615,666	12	\$48,446	967	\$41,726,990
1996	111	\$2,480,252	277	\$8,809,256	348	\$11,685,419	203	\$8,561,316	53	\$1,816,167	6	\$38,600	941	\$33,391,010
1997	84	\$891,348	283	\$6,502,096	299	\$1,372,547	242	\$1,565,932	58	\$1,565,944	9	\$54,905	921	\$18,803,772
1998	82	\$1,456,707	276	\$8,595,184	298	\$4,457,307	209	\$5,338,736	52	\$1,345,681	7	\$29,146	901	\$21,222,760
1999	77	\$1,465,710	295	\$11,754,082	309	\$9,283,911	204	\$7,518,287	50	\$1,641,819	1	\$386	925	\$31,664,195
2000	86	\$2,252,030	298	\$7,874,324	322	\$5,000,948	203	\$6,447,933	54	\$1,169,716	3	\$2,157	921	\$22,747,108
2001	82	\$1,188,608	277	\$3,955,336	250	\$4,555,209	193	\$1,680,458	51	\$372,698	1	\$28	834	\$11,752,338
2002	59	\$436,721	215	\$2,908,227	230	\$2,031,974	147	\$2,820,788	35	\$790,385	0	\$0	680	\$8,988,095
2003	76	\$1,296,399	222	\$4,879,846	244	\$4,798,114	181	\$2,004,689	52	\$897,553	0	\$0	760	\$13,876,601
2004	72	\$942,237	231	\$4,200,351	277	\$3,317,038	178	\$5,179,198	44	\$1,495,970	0	\$0	795	\$15,134,794
2005	71	\$1,161,903	236	\$5,246,966	288	\$7,280,269	184	\$6,527,628	57	\$1,617,930	1	\$2,321	829	\$21,837,017
2006	76	\$1,687,562	231	\$6,171,005	303	\$4,994,397	185	\$5,207,030	56	\$1,358,992	0	\$0	844	\$19,418,986
2007	75	\$1,836,451	235	\$7,858,632	289	\$7,662,762	189	\$4,478,594	50	\$1,689,089	0	\$0	835	\$23,525,528
2008	73	\$1,545,350	252	\$7,120,137	283	\$9,281,304	189	\$5,024,652	53	\$886,375	0	\$0	850	\$23,857,818
2009	70	\$1,453,525	253	\$9,569,256	275	\$8,790,842	194	\$8,405,402	54	\$1,726,696	2	\$2,775	843	\$29,948,496
2010	76	\$2,063,902	275	\$12,819,522	283	\$12,763,334	191	\$4,732,136	53	\$2,493,488	0	\$0	868	\$34,872,382
2011	83	\$2,553,414	288	\$8,835,598	276	\$10,645,676	197	\$5,473,268	53	\$2,317,417	0	\$0	889	\$29,825,373
2012	87	\$1,856,042	281	\$7,340,505	275	\$9,802,092	202	\$5,571,198	57	\$1,833,300	0	\$0	893	\$26,403,137
2013	80	\$2,053,937	272	\$6,978,646	259	\$7,473,811	190	\$6,627,865	58	\$2,007,307	0	\$0	857	\$25,142,760
2014	78	\$1,978,955	277	\$13,333,089	271	\$17,604,594	198	\$5,750,389	74	\$2,017,602	0	\$0	878	\$40,684,628
2015	82	\$939,329	277	\$6,319,681	279	\$7,814,226	195	\$4,380,651	58	\$1,455,899	0	\$0	887	\$20,909,786
2016	78	\$2,289,605	280	\$12,835,303	266	\$10,001,738	190	\$7,307,057	52	\$2,654,483	0	\$0	861	\$35,088,186
2017	80	\$2,481,889	284	\$18,896,726	274	\$14,751,909	189	\$9,956,815	59	\$2,908,131	0	\$0	881	\$48,995,471

- Adjusted for inflation to 2017 dollars using U.S. Bureau of Labor Statistics Consumer Price Index. Some permits are used to record landings in more than one district.

Chapter 3 Permit Holdings in Both Bristol Bay Salmon Fisheries.

Because of their established fishing history in multiple fisheries prior to limitation, some initial permit holders were issued permits in more than one fishery. Table 3-1 provides counts of permit holders who were issued permits in only one fishery or in both Bristol Bay salmon fisheries.

Table 3-1. Initial Issuance of Permits in the Bristol Bay Salmon Fisheries

Drift Gillnet Only	1,723
Set Gillnet Only	889
Both Fisheries	151

Table 3-2 shows the count of Bristol Bay salmon permit holders who either held or fished in one or both fisheries at some point during the year.

Table 3-2. Held and Fished Salmon Permits in Bristol Bay

Year	One Permit		Both Permits		Year	One Permit		Both Permits		Year	One Permit		Both Permits	
	Held	Fished	Held	Fished		Held	Fished	Held	Fished		Held	Fished	Held	Fished
1975	2,545	1,633	110	23	1990	3,242	2,892	39	6	2005	3,294	2,377	34	7
1976	2,535	1,827	97	23	1991	3,277	2,870	26	0	2006	3,235	2,436	37	8
1977	2,665	1,817	106	21	1992	3,333	2,914	26	4	2007	3,286	2,482	35	8
1978	2,857	2,205	116	21	1993	3,357	2,921	22	1	2008	3,232	2,509	36	5
1979	2,961	2,465	96	22	1994	3,420	2,868	24	3	2009	3,313	2,496	29	2
1980	2,991	2,554	82	21	1995	3,448	2,924	20	4	2010	3,309	2,570	37	5
1981	3,036	2,618	66	25	1996	3,426	2,883	25	2	2011	3,218	2,581	24	2
1982	3,079	2,646	61	20	1997	3,414	2,856	25	1	2012	3,187	2,543	23	4
1983	3,040	2,680	50	11	1998	3,383	2,800	22	2	2013	3,266	2,593	21	1
1984	3,048	2,695	42	11	1999	3,341	2,797	23	3	2014	3,304	2,660	21	3
1985	3,082	2,693	43	14	2000	3,383	2,775	19	1	2015	3,230	2,670	16	0
1986	3,127	2,737	41	6	2001	3,325	2,405	26	7	2016	3,316	2,601	18	2
1987	3,143	2,766	43	7	2002	3,208	1,864	32	3	2017	3,337	2,647	25	3
1988	3,119	2,808	39	6	2003	3,219	2,187	36	6					
1989	3,207	2,879	39	5	2004	3,199	2,259	32	7					

Appendix A. Dual and Stacked Permit Regulations

Dual Permits:					
Fishery and Fishery Code	First Season In Effect	Basic Regulation	Identification	Special Considerations	Regulations
Bristol Bay Salmon Drift Gillnet S03T	2004	Two permit holders may fish from a single vessel; the vessel's total allowable gear increases from 150 to 200 fathoms	Vessels display a 'D' adjacent to the license plate when fishing 2 permits. Otherwise, the 'D' is to be covered.	Dual-permit operations are not allowed in certain restricted fishing areas	5 AAC 06.333 5 AAC 06.370
Cook Inlet Salmon Drift Gillnet S03H	2008	Two permit holders may fish from a single vessel; the vessel's total allowable gear increases from 150 to 200 fathoms	Vessels display a 'D' adjacent to the license plate when fishing 2 permits. Otherwise, the 'D' is to be covered. Do not have to preregister with F&G.	Dual-permit operations are not allowed in certain restricted fishing areas	5 AAC 21.333
Southeast Herring Gillnet G34A	2006	Two permit holders may fish from a single vessel; the vessel's allowable gear increases from a single 50-fathom net to a 75-fathom net.	Vessels display the letter 'D' adjacent to the license plate when fishing 2 permits. Otherwise, the 'D' is to be covered.		5 AAC 27.131(i)

Stacked Permits					
2002: AS 16.43.140 (c) was amended to allow individuals to hold two salmon limited entry permits in the same fishery.					
2006: AS 16.05.251 (i) gives the BOF the authority to grant fishing privileges to the second permit held by an individual.					
Fishery and Fishery Code	First Season In Effect	Basic Regulation	Identification	Special Considerations	Regulations
Kodiak Salmon Set Gillnet S04K	2 regulations: (a) 2008 and (b) 1985 then 2010:	(a) Permit holders may own and fish 2 permits simultaneously. Their allowable gear doubles from 2 nets and 150 fathoms to 4 nets and 300 fathoms. (b) Two permit holders may fish in a joint venture; the operation's total allowable gear increases from 2 nets and 150 fathoms to 3 nets and to 300 fathoms Board of Fish allowed stacked permit regulation to sunset	In 2008 persons who fished 2 permits were issued 2 permit cards: a standard card and a white-colored (non-functioning) card. In 2009, the non-functioning card was yellow-colored. In 2010, persons were issued 2 standard cards, and either could be used to record a landing. Gillnet buoys must be marked with a 'D' and with both permit numbers when the operation fishes 2 permits.	(a) expired after December of 2010	5 AAC 18.331
Bristol Bay Salmon Set Gillnet S04T	2010	Permit holders may own and fish 2 permits simultaneously. Their allowable gear doubles from 2 nets and 50 fathoms to 4 nets and 100 fathoms.	Persons who fish 2 permits are issued 2 permit cards. Each are standard cards and either can be used to record a landing. Gillnet buoys must be marked with a 'D' and with both permit numbers when the operation fishes 2 permits.	(u) "...the provisions of this subsection do not apply after December 31, 2012."	5 AAC 06.331(u)

Stacked Permits					
2002: AS 16.43.140 (c) was amended to allow individuals to hold two salmon limited entry permits in the same fishery. 2006: AS 16.05.251 (i) gives the BOF the authority to grant fishing privileges to the second permit held by an individual.					
Fishery and Fishery Code	First Season In Effect	Basic Regulation	Identification	Special Considerations	Regulations
Cook Inlet Salmon Drift Gillnet S03H	2017	Permit holders may own and fish 2 permits simultaneously. Their allowable gear increases from 150 (with 1 permit) to 200 fathoms of drift gillnet gear.	Vessels display a 'D' adjacent to the license plate when fishing 2 permits. Otherwise, the 'D' is to be covered		5 AAC 21.333(a)
Cook Inlet Salmon Set Gillnet S04H	2011	Permit holders may own and fish 2 permits simultaneously. Their allowable gear doubles from 4 nets and 105 fathoms to 210 fathoms in aggregate, with no single net longer than 35 fathoms, of which no more than 105 fathoms may be more than 29 meshes in depth in the Upper Subdistrict. (Depth modification made by Board-Generated Proposal A at the 2014 Upper Cook Inlet Finfish meeting).	Persons who fish 2 permits are issued 2 permit cards. Each are standard cards and either can be used to record a landing. Gillnet buoys must be marked with a 'D' and with both permit numbers when the operation fishes 2 permits. The identification buoy attached to gillnet gear of no more than 29 meshes in depth must be marked with a "D 29" following the CFEC permit holder's permit number.		5 AAC 21.331
Yakutat Salmon Set Gillnet S04D	2012	Permit holders may own and fish 2 permits simultaneously. Their allowable gear doubles from 4 nets and 105 fathoms to 210 fathoms in aggregate, with no single net longer than 35 fathoms.	Persons who fish 2 permits are issued 2 permit cards. Each are standard cards and either can be used to record a landing. Gillnet buoys must be marked with a 'D' and with both permit numbers when the operation fishes 2 permits. Valid only for Situk, Yakutat Bay, and Kaliakh, and only if Situk Chinook escapement exceeds 750 fish.		5 AAC 30.345







