

## **APPENDIX 5**

# **SOCIAL IMPACT ASSESSMENT: ANNOTATED OUTLINE, GOA TRAWL BYCATCH MANAGEMENT**

## **DISCUSSION PAPER**

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## **NOTE TO REVIEWERS**

This document consists of an annotated outline of the Social Impact Assessment (SIA) appendix to the GOA Trawl Bycatch Management Environmental Impact Statement. As such, it represents a template for the development of the SIA, rather than the analysis itself.

It is provided at this outline stage of the SIA process to facilitate timely feedback on the approach to, and direction of, the analysis, especially from the Advisory Panel and Council. The contents of Sections 1.0 and 2.0 of the document are relatively complete, with information that is still to be developed clearly noted, typically in using *blue italic font* often in footnotes and additionally bookended with “<<” and “>>” symbols when in the text of the document. The contents of Sections 3.0 and 4.0, presented only in outline form, await further data gathering and analytic effort.

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## Acronyms and Abbreviations

CFEC	Alaska Commercial Fisheries Entry Commission
FMP	Fishery Management Plan
GOA	Gulf of Alaska
IFQ	individual fishing quota
NOAA	National Oceanic Atmospheric Administration
NPFMC	North Pacific Fishery Management Council
QS	quota share



# 1 Introduction and Methodology

For the purposes of this community assessment, a two-pronged approach to analyzing the community or regional components of changes associated with the implementation of Gulf of Alaska (GOA) trawl bycatch management program was utilized. First, tables based on existing quantitative fishery information were developed to identify patterns of participation in the various components of the relevant fisheries. Summary tables, typically including data on an annual basis from 2003 through 2014, are presented in Section 2.0, along with accompanying narrative. This analysis focuses on fishery sectors (primarily catcher vessels, permit holders, and/or processors for relevant groundfish, halibut, and Chinook salmon<sup>1</sup> commercial fisheries, and permit holders or fishermen for sport charter and/or subsistence halibut and Chinook salmon fisheries) and follows annual and average participation indicators. Some more detailed fishery participant count tables by sector are presented in a series of tables included within a separate attachment at the end of this community analysis document.<sup>2</sup>

Within this quantitative characterization of fishery participation, a number of simplifying assumptions were made. For the purposes of this analysis, assignment of catcher vessels (and catcher processors) to a region or community has been made based upon ownership address information as listed in the Alaska Commercial Fisheries Entry Commission (CFEC) vessel registration files or the National Oceanic Atmospheric Administration (NOAA) Fisheries federal permit data. As a result, some caution in the interpretation of this information is warranted. It is not unusual for vessels to have complex ownership structures involving more than one entity in more than one region. Further, ownership location does not directly indicate where a vessel spends most of its time, purchases services, or hires its crew as, for example, some of the vessels owned by residents of the Pacific Northwest spend a great deal of time in Alaska ports and hire at least a few crew members from these ports. The region or community of ownership, however, does provide a rough indicator of the direction or nature of ownership ties (and a proxy for associated economic activity, as no existing datasets provide information on where GOA trawl vessel earnings are spent), especially when patterns are viewed at the sector or vessel class level. Ownership location has further been chosen for this analysis as the link of vessels to communities rather than other indicators, such as vessel homeport information, based on previous North Pacific Fishery Management Council (NPFMC) fishery management plan (FMP) social impact assessment experience that indicated the problematic nature of existing homeport data.

For shore-based processors, regional or community designation was based on the location of the plant itself (rather than ownership address) to provide a relative indicator of the local volume of fishery-related economic activity, which can also serve as a rough proxy for the relative level of associated employment and local government revenues. This is also consistent with other recent NPFMC FMP social impact assessment practice.

There are, however, substantial limitations on the data that can be utilized for these purposes, based on confidentiality restrictions. A prime example of this is where a community is the site of a single processor,

<sup>1</sup> Chinook salmon (*Oncorhynchus tshawytscha*) are also commonly referred to as king salmon, especially in the sport fishing industry.

<sup>2</sup> *To be provided in the next version of this document.*

or even two or three processors.<sup>3</sup> No information can be disclosed about the volume and/or value of landings in those communities. This, obviously, severely limits quantitative discussions of the potential impacts of the GOA trawl bycatch management alternatives. In short, the frame of reference or unit of analysis for the discussion in this section is the individual sector,<sup>4</sup> and the analysis looks at how participation in fisheries most likely to be affected by the proposed management actions has been differentially distributed across communities and regions within this framework. The practicalities of data limitations, however, serve to restrict this discussion.

The second approach to producing this community analysis involved selecting a subset of Alaska communities engaged in the relevant GOA trawl fisheries for characterization to describe the range, direction, and order of magnitude of social- and community-level engagement and dependency on those fisheries. The approach of using a subset of communities rather than attempting characterization of all of the communities in the region(s) involved was chosen due to the practicalities of time and resource constraints. Further, this characterization is being initially undertaken with existing information only, with the need for fieldwork in specific communities to be determined at a later date.

The total set of communities engaged in the fisheries is numerous and far-flung. Communities (and types of potential impacts) vary based upon the type of engagement of the individual community in the fishery, whether it is through being homeport of a portion of the catcher vessel fleet, being the location of shore-based processing, being the base of catcher processor or floating processor ownership or activity, or being the location of fishery support sector businesses. In short, this second approach uses the community or region as the frame of reference or unit of analysis (as opposed to the fishery sector as in the first approach). This approach examines, within the community or region, the local nature of engagement or dependence on the fishery in terms of the various sectors present in the community and the relationship of those sectors (in terms of size and composition, among other factors) to the rest of the local social and economic context. This approach then qualitatively provides a context for potential community impacts that may occur as a result of fishery management-associated changes to the locally present sectors in combination with other community-specific attributes and socioeconomic characteristics.

Simplifying assumptions also needed to be made as to which communities to include in the profiles, given the large number of communities participating in the fisheries, the desire to focus on the communities most engaged in/dependent on the relevant fisheries (and therefore most likely to be directly affected by proposed management actions), and a recognition that communities with multi-sector activity would likely be most vulnerable to adverse impacts related to the potential fishery

<sup>3</sup>The number of data points that need to be lumped to comply with data confidentiality restrictions varies by data source. The CFEC requires aggregation of four data points to permit reporting of what would otherwise be confidential data, while virtually all other data sources require the aggregation of three data points to permit disclosure. In this section, because several data sources draw at least in part on CFEC data, volume and value data are presented only when four or more data points are aggregated.

<sup>4</sup>In this community analysis, the term “trawl vessels” is often used as shorthand for “vessels utilizing trawl gear.” In reality, some individual vessels fish groundfish with both types of gear over the course of a year, although these multi-gear vessels are few. An early study (NPFMC 2013) found that among Alaska communities, only Kodiak and Sand Point had any vessels (and each had only one vessel) fish both gear types in the relevant GOA groundfish fisheries in any individual year 2003-2010, inclusive. (Kodiak had one vessel fish both gear types in 2006; Sand Point had one vessel fish both gear types in 2009.)

management changes. As a result, the communities selected for inclusion in the set of community profiles were those Alaska communities that had at least some multi-year GOA trawl vessel activity and/or continuing shore-based processing activity in the years covered by the primary dataset used for analysis (2003-2014). Specifically, they were those communities that had at least one resident-owned trawl vessel that made at least one GOA trawl delivery in more than one year<sup>5</sup> over the period 2003-2014<sup>6</sup> and/or had an average of 0.5 or more shore-based processors operating in the community annually over the period 2003-2014 (i.e., the community had, on average, shore-based processing in at least half of the years during the period<sup>7</sup>). Using these criteria, nine Alaska communities and two groupings of Pacific Northwest communities were selected for profiling as the communities most engaged in, and potentially the most dependent on, the GOA trawl fisheries potentially affected by the various GOA trawl bycatch management alternatives. These communities (or aggregations of communities) and the criteria for their inclusion are:

- Alaska Communities
  - Harvesting and Processing
    - Kodiak
    - King Cove
    - Sand Point
  - Harvesting Only
    - Anchorage<sup>8</sup>
    - Homer
    - Petersburg
  - Processing Only
    - Seward
    - Akutan
    - Unalaska/Dutch Harbor

<sup>5</sup> Three other communities appear in the data as having one resident-owned vessel operate in the trawl fishery for one year (only) 2003-2014. These are Anchor Point, Juneau, and Nikolaevsk each of which had one resident-owned trawl vessel shown as active in the data in 2003 (only).

<sup>6</sup> As a simplifying assumption, trawl vessels that engaged in pelagic trawl and non-pelagic trawl in both shallow-water and deep-water complexes were combined due to the limited number of vessels in any complex, pelagic or non-pelagic, in any community, for any year, in order to present more complete data than would otherwise be possible due to confidentiality restrictions.

<sup>7</sup> Four other communities appear in the data as having shore-based processing of trawl-caught deliveries in 2003-2014. These include three communities that took one or more delivery in one year only (Homer and Kenai, 2003 only, and Sitka, 2012 only) and one community that took one or more delivery in two years only (Niniichik, 2003 and 2006).

<sup>8</sup> The Anchorage community profile is based upon the Municipality of Anchorage, which encompasses a number of communities/named places within its boundaries, including, among others, Chugiak, Eagle River, and Girdwood. Some GOA groundfish fishery data are reported separately for unincorporated communities within Anchorage (e.g., Girdwood shows at least some locally owned GOA groundfish trawl vessel activity each year 2003-2014, except for 2004). These data are combined within the Anchorage community profile and the summary tables in this community analysis document.

- Pacific Northwest Aggregations of Communities
  - Harvesting Only
    - Seattle Metropolitan Area (Seattle MSA<sup>9</sup>)
    - Coastal Oregon Communities

Of these communities, Kodiak, King Cove, and Sand Point are both substantially engaged in and substantially dependent on the GOA trawl fishery and, as a result, their community profiles will be more detailed than the others. While the profiles of other communities will be based on existing secondary source information, the need for additional fieldwork specific to the GOA trawl bycatch management social impact assessment process and the alternatives chosen for analysis will be evaluated for these three communities after the compilation of the secondary data.

The location of these communities and their proximity to the GOA trawl management areas and the halibut regulatory areas in the GOA may be seen in Figure (*TBP*). Summary profiles of each of these communities are presented in Section 3.0. These summaries are derived from detailed community-profiling efforts, the results of which are in part included in this analysis and in part included in other documents incorporated by reference, as noted in that section.

It is also understood that not only the trawl fisheries that would be subject to potential in GOA trawl bycatch management would be affected by management action changes. It is assumed that if changes to GOA halibut PSC catch limits or Chinook salmon PSC catch limits were a part of the proposed action, direct halibut fisheries and Chinook salmon fisheries would potentially benefit from these management actions relative to the degree that the GOA halibut and Chinook salmon stocks themselves would benefit from these proposed actions (and the effective redistribution of overall halibut and Chinook salmon allocations between sectors that may occur with the various alternatives).

As a result, in both the quantitative indicators and community profile summaries, information is presented on community engagement in the GOA commercial, sport, and subsistence halibut and Chinook salmon fisheries. In these cases, the GOA trawl communities profiled may or may not be the communities most centrally engaged in or dependent upon those fisheries.<sup>10</sup> That is, those communities that have the potential to experience the greatest adverse impacts that could result from the proposed management actions may not be the same communities that have the potential to experience the greatest beneficial impacts that could result from some components the proposed management actions.

<sup>9</sup> The Seattle-Tacoma-Bellevue Metropolitan Statistical Area, referred to as the “Seattle MSA” in this document, is a U.S. Census Bureau defined region used to tabulate the metropolitan area in and around Seattle, Washington. It includes of King, Pierce, and Snohomish counties.

<sup>10</sup> In federally managed waters within and offshore of Alaska, residents of Alaska communities defined as rural have preferential subsistence-use access to a range of resources, including halibut and Chinook salmon, over residents of other Alaska communities. Among the communities profiled in this document, Akutan, King Cove, Kodiak, Petersburg, Sand Point, Unalaska/Dutch Harbor, and Sitka meet the regulatory definition of rural communities; Anchorage, Homer, and Seward do not (see <https://www.federalregister.gov/articles/2016/03/10/2016-05317/subsistence-management-regulations-for-public-lands-in-alaska-rural-determinations-nonrural-list> accessed 5/16/16).

This potential differential distribution of adverse and beneficial impacts among communities will be primarily addressed in the quantitative indicators discussion, but engagement in the three different types of halibut and Chinook salmon fisheries (commercial, sport, and subsistence) is also discussed in each of the community profiles, where negatively affected and positively affected populations have the greatest potential for overlap. Tables containing detailed quantitative information on engagement in the halibut and Chinook salmon fisheries for communities not included in the Section 3.0 community profiles are presented in Attachment 1 and Attachment 2, respectively.

Additionally, Sitka has been added to the list of communities profiled in Section 3.0 as the only community not otherwise selected based on the above noted factors of GOA trawl engagement and/or dependency. Rather, it was added based on its inclusion in an earlier GOA Halibut PSC analysis (NPFMC 2013<sup>11</sup>), which was, in turn, based on input received during that process regarding the relative engagement of the community in the halibut commercial, sport charter, and subsistence fisheries and harvesting and processing declines/losses that had already occurred in the halibut fishery.

Section 4.0 will provide a summary of potential community-level impacts. Discussions in this section will include community engagement, dependence, and vulnerability; GOA trawl fishery engagement in the Alaska communities profiled; GOA trawl fishery dependency and vulnerability to community-level impacts of the proposed action among Alaska communities; risks to fishing community sustained participation in the GOA trawl fisheries; and potential community-level impacts associated with impacts to GOA halibut and Chinook salmon fisheries where appropriate, including communities that are not substantially engaged in and/or dependent upon the GOA trawl fisheries.

<sup>11</sup> Final Environmental Assessment/Regulatory Impact Review/Initial Regulatory Flexibility Analysis to Revise Gulf of Alaska Prohibited Species Catch Limits: Amendment 95 to the Fishery Management Plan for Groundfish of the Gulf of Alaska. November. Available at: <https://alaskafisheries.noaa.gov/sites/default/files/analyses/goa95earir.pdf>. Accessed 5/16/16.

## 2 Quantitative Indicators

The following series of tables provides quantitative GOA trawl fishery participation information, within the bounds of confidentiality restrictions, for the communities most directly engaged in the GOA trawl fisheries (Section 2.1), along with their participation in the GOA halibut and GOA Chinook salmon fisheries where relevant (Sections 2.2 and 2.3, respectively). This information is summarized, on a community-by-community basis, in the community profiles in a later section of this document.<sup>12</sup>

### 2.1 GOA Trawl Fishery Indicators

#### 2.1.1 GOA Trawl Catcher Vessels

Table 1 provides a count, by community and year (2003-2014), of GOA trawl catcher vessels for all Alaska communities; and state totals for Alaska, Oregon, Washington,<sup>13</sup> and all other states combined. As shown, the largest component of fleet ownership during any given year is typically in Alaska, followed by Washington, Oregon, and all other states combined. Within Alaska, the largest concentrations of vessels are seen in Kodiak and Sand Point, followed by King Cove.

**Table 1. Individual GOA Groundfish Trawl Catcher Vessels by Community of Vessel Owner, 2003-2014 (number of vessels)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
Anchorage	2	1	2	1	1	1	1	1	1	1	2	2	1.3
Homer	2	0	1	1	0	0	0	0	0	0	0	0	0.3
King Cove	2	2	4	4	4	4	5	3	3	3	3	3	3.3
Kodiak	18	15	14	13	12	15	14	15	14	15	15	18	15
Petersburg	1	1	1	1	1	1	1	1	1	1	1	2	1.1
Sand Point	13	11	11	11	10	8	12	9	7	7	7	7	9.4
All Other Alaska*	3	0	0	0	0	0	0	0	0	0	0	0	0.3
Alaska Total	41	30	33	31	28	29	33	29	26	27	28	32	31
Oregon Total	20	21	19	18	16	15	14	14	17	14	11	10	16
Washington Total	29	24	24	23	26	27	23	23	25	29	29	26	26
All Other States Total	3	2	3	2	2	2	2	1	1	1	1	1	1.8
<b>Total</b>	<b>93</b>	<b>77</b>	<b>79</b>	<b>74</b>	<b>72</b>	<b>73</b>	<b>71</b>	<b>67</b>	<b>68</b>	<b>70</b>	<b>69</b>	<b>69</b>	<b>74</b>

\*Anchor Point, Juneau, and Nikolaevsk each had one resident-owned trawl vessel in 2003 (only).

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

<sup>12</sup> More detailed participation counts for trawl catcher vessels, trawl catcher processors, and shore-based processors accepting trawl deliveries, for all communities, both within and outside of Alaska, will be provided in subsequent versions of this document in a series of tables contained in an attachment to this community analysis document.

<sup>13</sup> Note: in subsequent versions of this document, in trawl catcher vessel tables, Washington data will be broken out into three categories: Seattle MSA, All Other Washington, and Washington Total where confidentiality restrictions allow.

Table 2 provides parallel information expressed as percentages of the total trawl catcher vessel fleet rather than as counts. Clearly shown in this table is the concentration of ownership of GOA trawl catcher vessels within Alaska in the communities of Kodiak and Sand Point (together accounting, on average for one-third of the vessels in fishery) and, to a lesser extent, in King Cove.

**Table 2. Individual GOA Groundfish Trawl Catcher Vessels by Community of Vessel Owner, 2003-2014 (percentage of vessels)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014
	%												
Anchorage	2.2	1.3	2.5	1.4	1.4	1.4	1.4	1.5	1.5	1.4	2.9	2.9	1.8
Homer	2.2	0.0	1.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
King Cove	2.2	2.6	5.1	5.4	5.6	5.5	7.0	4.5	4.4	4.3	4.3	4.3	4.5
Kodiak	19.4	19.5	17.7	17.6	16.7	20.5	19.7	22.4	20.6	21.4	21.7	26.1	20.2
Petersburg	1.1	1.3	1.3	1.4	1.4	1.4	1.4	1.5	1.5	1.4	1.4	2.9	1.5
Sand Point	14.0	14.3	13.9	14.9	13.9	11.0	16.9	13.4	10.3	10.0	10.1	10.1	12.8
All Other Alaska	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Alaska Total	44.1	39.0	41.8	41.9	38.9	39.7	46.5	43.3	38.2	38.6	40.6	46.4	41.6
Oregon Total	21.5	27.3	24.1	24.3	22.2	20.5	19.7	20.9	25.0	20.0	15.9	14.5	21.4
Washington Total	31.2	31.2	30.4	31.1	36.1	37.0	32.4	34.3	36.8	41.4	42.0	37.7	34.9
All Other States Total	3.2	2.6	3.8	2.7	2.8	2.7	2.8	1.5	1.5	1.4	1.4	1.4	2.4
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

Table 3 provides GOA trawl vessel exvessel gross revenue information by community and year (2003-2014) to the extent possible within data confidentiality restrictions. As shown, only information for Kodiak and Sand Point can be disclosed on an individual community basis, but clearly apparent is the economic dominance of these two communities for this fleet within the state of Alaska.

**Table 3. GOA Groundfish Trawl Catcher Vessel Exvessel Gross Revenues by Community of Vessel Owner, 2003-2014 (adjusted 2015 millions of dollars)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014
	\$ (millions)												
Kodiak	10.59	10.09	12.34	13.25	12.25	17.40	11.50	17.06	17.62	20.87	18.87	24.02	15.49
Sand Point	3.01	3.93	5.42	5.33	3.96	4.97	3.73	3.91	1.77	4.77	1.76	2.47	3.75
All Other Alaska	1.63	1.28	1.93	1.62	1.61	1.54	0.57	1.46	1.54	2.77	1.31	2.14	1.62
Alaska Total	15.23	15.31	19.70	20.19	17.82	23.91	15.80	22.43	20.93	28.41	21.94	28.63	20.86
Washington Total	10.43	11.83	13.10	12.89	13.26	16.45	8.05	13.15	14.05	21.55	19.15	19.24	14.43
All Other States Total	15.08	14.31	17.98	18.55	17.90	22.84	13.60	18.54	20.97	21.03	18.48	16.60	17.99
EGR Total	40.73	41.46	50.77	51.63	48.98	63.20	37.44	54.12	55.94	70.99	59.56	64.47	53.27

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

Table 4 provides parallel information expressed as percentages of total exvessel gross revenues rather than as absolute dollars. Particularly apparent in the table is the economic dominance of Washington-owned vessels, followed in all years by Alaska and then all other states combined. For these tables, Oregon-owned vessel data were combined with data of all other states to allow for a grand total calculation that would have otherwise been precluded by confidentiality restrictions.



**Table 4. GOA Groundfish Trawl Catcher Vessel Exvessel Gross Revenues by Community of Vessel Owner, 2003-2014 (percentage)**

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014
<b>Geography</b>	<b>%</b>												
Kodiak	26.0	24.4	24.3	25.7	25.0	27.5	30.7	31.5	31.5	29.4	31.7	37.3	29.1
Sand Point	7.4	9.5	10.7	10.3	8.1	7.9	10.0	7.2	3.2	6.7	3.0	3.8	7.0
All Other Alaska	4.0	3.1	3.8	3.1	3.3	2.4	1.5	2.7	2.7	3.9	2.2	3.3	3.0
Alaska Total	37.4	36.9	38.8	39.1	36.4	37.8	42.2	41.4	37.4	40.0	36.8	44.4	39.2
Washington Total	25.6	28.5	25.8	25.0	27.1	26.0	21.5	24.3	25.1	30.4	32.1	29.8	27.1
All Other States Total	37.0	34.5	35.4	35.9	36.5	36.1	36.3	34.2	37.5	29.6	31.0	25.7	33.8
EGR Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

*<< Note: tables on trawl catcher vessels exvessel gross revenue diversification by community of vessel owner for (1) all communities and (2) Alaska communities will be provided in the next version of this document pending receipt of data >>*

## 2.1.2 GOA Trawl Catcher Processors

Table 5 provides a count, by community and year (2003-2014), of GOA trawl catcher processors for all Alaska communities; and state totals for Alaska, Oregon, Washington,<sup>14</sup> and all other states combined. As shown, the largest component of fleet ownership during any given year is typically in Washington, followed by all other states combined. No Oregon resident-owned trawl catcher processors are shown in the data for any year 2003 through 2014.

**Table 5. Individual GOA Groundfish Trawl Catcher Processors by Community of Vessel Owner, 2003-2014 (number of vessels)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014
Kodiak	2	2	0	0	0	0	0	0	0	0	0	0	0.3
All Other Alaska	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaska Total	2	2	0	0	0	0	0	0	0	0	0	0	0.3
Oregon Total	0	0	0	0	0	0	0	0	0	0	0	0	0
Washington Total	17	14	16	15	14	14	18	16	16	15	12	11	15
All Other States Total	2	0	0	1	1	0	0	1	1	2	2	0	0.8
<b>Total</b>	<b>21</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>15</b>	<b>14</b>	<b>18</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>14</b>	<b>11</b>	<b>16</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

Table 6 provides parallel information expressed as percentages of the total trawl catcher processor fleet rather than as counts. Clearly shown in this table is the concentration of ownership of GOA trawl catcher processors within Washington, followed by all other states combined, and then Alaska, with all of Alaska resident-ownership concentrated in Kodiak, and then for only the two earliest years covered by the dataset.

<sup>14</sup> Note: in subsequent versions of this document, in trawl processor tables, Washington data will be broken out into three categories: Seattle MSA, All Other Washington, and Washington Total where confidentiality restrictions allow.

**Table 6. Individual GOA Groundfish Trawl Catcher Processors by Community of Vessel Owner, 2003-2014 (percentage)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
	%												
Kodiak	9.5	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
All Other Alaska	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alaska Total	9.5	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
Oregon Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Washington Total	81.0	87.5	100.0	93.8	93.3	100.0	100.0	94.1	94.1	88.2	85.7	100.0	92.7
All Other States Total	9.5	0.0	0.0	6.3	6.7	0.0	0.0	5.9	5.9	11.8	14.3	0.0	5.2
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

Table 7 provides GOA trawl catcher processor first wholesale gross revenue information by community and year (2003-2014) to the extent possible within data confidentiality restrictions.

**Table 7. GOA Groundfish Trawl Catcher Processor First Wholesale Gross Revenues by Community of Vessel Owner, 2003-2014 (adjusted 2015 millions of dollars)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014
	\$ (millions)												
FWGR Total	13.75	9.90	11.81	13.93	12.22	11.66	12.86	15.47	18.61	16.48	12.09	16.11	13.74

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

Table 8 provides parallel information expressed as percentages of total first wholesale gross revenues.

**Table 8. GOA Groundfish Trawl Catcher Processor First Wholesale Gross Revenues by Community of Vessel Owner, 2003-2014 (percentage)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014
	%												
FWGR Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

<< Note: Tables on trawl catcher processors first wholesale gross revenue diversification by community of vessel owner for (1) all communities and (2) Alaska communities will be provided in the next version of this document pending receipt of data >>

### 2.1.3 GOA Trawl Catcher Vessel and Trawl Catcher Processor Halibut Mortality

Table 9 provides GOA trawl vessel halibut mortality information by community and year (2003-2014) to the extent possible within data confidentiality restrictions. As shown, the “all other states” category (which in this case includes Oregon to allow disclosure of grand totals) accounts for higher annual average mortality of halibut as measured in tons than Alaska or Washington. Among Alaska communities, only information for Kodiak and Sand Point can be disclosed on an individual community basis, with Kodiak resident-owned vessels accounting for about 91 percent of total halibut mortality aboard Alaska resident-owned GOA trawl catcher vessels on an annual average basis over the period 2003-2014.

**Table 9. GOA Groundfish Trawl Vessel Halibut Mortality by Community of Vessel Owner, 2003-2014 (metric tons)**

Vessel Type	Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
CVs	Kodiak	372.8	502.3	512.5	475.3	510.1	552.6	618.8	476.7	559.2	429.4	270.6	336.1	468.0
	Sand Point	9.6	15.4	6.1	16.8	11.2	25.6	14.2	2.2	1.6	75.6	27.3	22.3	19.0
	All Other Alaska	61.9	69.0	22.6	18.2	11.5	19.1	10.4	2.1	6.8	33.2	23.1	26.5	25.4
	Alaska Total	444.3	586.8	541.2	510.3	532.9	597.4	643.4	481.0	567.6	538.1	321.0	384.9	512.4
	Washington Total	258.2	430.0	316.6	242.0	354.0	363.8	217.6	189.3	213.9	240.5	172.0	115.0	259.4
	All Other States Total	522.3	654.4	692.0	672.6	629.5	534.0	497.3	448.3	579.8	539.1	359.3	390.2	543.2
	Total	1,224.9	1,671.2	1,549.8	1,424.9	1,516.4	1,495.2	1,358.3	1,118.6	1,361.3	1,317.7	852.3	890.1	1,315.1
CPs	Total	852.4	773.2	564.4	559.1	405.7	442.7	455.7	516.4	509.9	388.5	377.0	502.3	528.9
CV and CP	Total	2,077.3	2,444.4	2,114.2	1,984.1	1,922.1	1,937.9	1,814.0	1,635.0	1,871.1	1,706.2	1,229.4	1,392.4	1,844.0

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

Table 10 provides parallel information expressed as percentages of total halibut mortality for GOA trawl catcher vessels and trawl catcher processors.

**Table 10. GOA Groundfish Trawl Vessel Halibut Mortality by Community of Vessel Owner, 2003-2014 (percentage)**

Vessel Type	Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
		%												
CVs	Kodiak	17.9	20.6	24.2	24.0	26.5	28.5	34.1	29.2	29.9	25.2	22.0	24.1	25.4
	Sand Point	0.5	0.6	0.3	0.8	0.6	1.3	0.8	0.1	0.1	4.4	2.2	1.6	1.0
	All Other Alaska	3.0	2.8	1.1	0.9	0.6	1.0	0.6	0.1	0.4	1.9	1.9	1.9	1.4
	Alaska Total	21.4	24.0	25.6	25.7	27.7	30.8	35.5	29.4	30.3	31.5	26.1	27.6	27.8
	Washington Total	12.4	17.6	15.0	12.2	18.4	18.8	12.0	11.6	11.4	14.1	14.0	8.3	14.1
	All Other States Total	25.1	26.8	32.7	33.9	32.7	27.6	27.4	27.4	31.0	31.6	29.2	28.0	29.5
	Total	59.0	68.4	73.3	71.8	78.9	77.2	74.9	68.4	72.8	77.2	69.3	63.9	71.3
CPs	Total	41.0	31.6	26.7	28.2	21.1	22.8	25.1	31.6	27.2	22.8	30.7	36.1	28.7
CV and CP	Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

### 2.1.4 GOA Trawl Catcher Vessel and Trawl Catcher Processor Chinook Salmon Mortality

Table 11 provides GOA trawl vessel Chinook salmon mortality information by community and year (2003-2014) to the extent possible within data confidentiality restrictions. As shown, Alaska resident-owned GOA trawl catcher vessels account for about 47 percent of all Chinook salmon mortality, as measured in number of fish, on an annual average basis of all GOA trawl catcher vessels over this period. Among Alaska communities, only information for Kodiak and Sand Point can be disclosed on an individual community basis, with Kodiak resident-owned vessels accounting for about 71 percent of total Chinook salmon mortality aboard Alaska resident-owned GOA trawl catcher vessels (as measured in number of fish) on an annual average basis over the period 2003-2014.

**Table 11. GOA Groundfish Trawl Vessel Chinook Salmon Mortality by Community of Vessel Owner, 2003-2014 (number of fish)**

Vessel Type	Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
CVs	Kodiak	2,404.5	4,374.9	9,328.0	4,409.8	25,581.5	4,211.5	2,107.4	10,085.9	4,504.8	4,829.8	5,724.6	3,834.2	6,783.1
	Sand Point	409.1	1,166.6	3,124.1	1,536.4	1,371.9	1,051.3	198.9	10,814.7	1,065.3	1,759.7	83.8	1,201.2	1,981.9
	All Other Alaska	291.1	577.6	481.0	271.7	9.1	86.3	18.3	5,247.1	696.4	762.1	34.0	611.1	757.2
	Alaska Total	3,104.7	6,119.0	12,933.1	6,217.9	26,962.5	5,349.1	2,324.6	26,147.8	6,266.5	7,351.7	5,842.4	5,646.5	9,522.1
	Washington Total	2,341.1	3,435.7	7,366.5	3,889.5	4,052.0	2,918.3	1,471.1	15,495.9	5,899.1	6,815.5	6,896.9	4,002.1	5,382.0
	All Other States Total	3,485.4	5,727.3	8,825.8	6,839.8	6,322.0	4,852.9	1,789.8	8,052.5	6,212.9	3,642.7	5,929.2	2,979.1	5,388.3
	Total	8,931.2	15,282.1	29,125.3	16,947.1	37,336.5	13,120.2	5,585.5	49,696.2	18,378.5	17,809.8	18,668.5	12,627.7	20,292.4
CPs	Total	6,393.9	2,321.9	2,784.0	1,628.3	2,983.4	2,967.5	2,409.6	4,682.5	3,020.6	1,948.6	4,634.0	2,891.4	3,222.1
CV and CP	Total	15,325.1	17,603.9	31,909.3	18,575.5	40,319.9	16,087.8	7,995.1	54,378.7	21,399.1	19,758.4	23,302.5	15,519.1	23,514.5

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

Table 12 provides parallel information expressed as percentages of total Chinook salmon mortality for GOA trawl catcher vessels and trawl catcher processors.

**Table 12. GOA Groundfish Trawl Vessel Chinook Salmon Mortality by Community of Vessel Owner, 2003-2014 (percentage)**

Vessel Type	Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014
		%												
CVs	Kodiak	15.7	24.9	29.2	23.7	63.4	26.2	26.4	18.5	21.1	24.4	24.6	24.7	28.8
	Sand Point	2.7	6.6	9.8	8.3	3.4	6.5	2.5	19.9	5.0	8.9	0.4	7.7	8.4
	All Other Alaska	1.9	3.3	1.5	1.5	0.0	0.5	0.2	9.6	3.3	3.9	0.1	3.9	3.2
	Alaska Total	20.3	34.8	40.5	33.5	66.9	33.2	29.1	48.1	29.3	37.2	25.1	36.4	40.5
	Washington Total	15.3	19.5	23.1	20.9	10.0	18.1	18.4	28.5	27.6	34.5	29.6	25.8	22.9
	All Other States Total	22.7	32.5	27.7	36.8	15.7	30.2	22.4	14.8	29.0	18.4	25.4	19.2	22.9
	Total	58.3	86.8	91.3	91.2	92.6	81.6	69.9	91.4	85.9	90.1	80.1	81.4	86.3
CPs	Total	41.7	13.2	8.7	8.8	7.4	18.4	30.1	8.6	14.1	9.9	19.9	18.6	13.7
CV and CP	Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

### 2.1.5 GOA Trawl Catcher Vessel and Trawl Catcher Processor Amendment 80, AFA, and Rockfish Program Status Designations

Table 13 provides information on the Amendment 80, American Fisheries Act (AFA), and rockfish program status of GOA trawl vessels<sup>15</sup> for 2014 as well as by annual average 2003-2014 by community in Alaska and for the states of Alaska, Washington, and Oregon, as well as all other states combined. Inclusion of vessels in one or more of these classes would likely reduce the vulnerability of individual vessels to adverse impacts to halibut or Chinook salmon PSC reductions as through co-op or other internal vessel class compensation mechanisms and/or separate accounting of PSC thresholds unique to that vessel class (thereby insulating these vessels somewhat from adverse consequences of actions of vessels outside of their restricted class over which they have very little influence or control).

<sup>15</sup> Data for GOA trawl catcher vessels and trawl catcher processors are combined in this section; in the next version of this document, these data will be parsed out.



**Table 13. Total GOA Groundfish Trawl Vessels and Amendment 80, AFA, and Rockfish Program Status Designations, by Community of Vessel Owner, 2014 and Annual Average 2003-2014 (number of vessels)**

Geography	2014								Annual Average 2003-2014						
	Total Vessels	Amendment 80		AFA		Rockfish Program		Total Vessels	Amendment 80		AFA		Rockfish Program (2007-2014)		
		No	Yes	No	Yes	No	Yes		No	Yes	No	Yes	No	Yes	
Anchorage	2	2	0	2	0	TBP	TBP	1	1	0	1	0	TBP	TBP	
Homer	0	0	0	0	0	TBP	TBP	0	0	0	0	0	TBP	TBP	
King Cove	3	3	0	3	0	TBP	TBP	3	3	0	3	0	TBP	TBP	
Kodiak	18	18	0	13	5	TBP	TBP	15	15	0	10	5	TBP	TBP	
Petersburg	2	2	0	2	0	TBP	TBP	1	1	0	1	0	TBP	TBP	
Sand Point	7	7	0	7	0	TBP	TBP	9	9	0	9	0	TBP	TBP	
All Other Alaska	0	0	0	0	0	TBP	TBP	0	0	0	0	0	TBP	TBP	
Alaska Total	32	32	0	27	5	TBP	TBP	31	31	0	26	5	TBP	TBP	
Oregon Total	10	10	0	5	5	TBP	TBP	16	16	0	6	9	TBP	TBP	
Washington Total	37	26	11	24	13	TBP	TBP	40	26	15	29	11	TBP	TBP	
All Other States Total	1	1	0	1	0	TBP	TBP	3	2	1	3	0	TBP	TBP	
<b>Total</b>	<b>80</b>	<b>69</b>	<b>11</b>	<b>57</b>	<b>13</b>	<b>TBP</b>	<b>TBP</b>	<b>89</b>	<b>73</b>	<b>16</b>	<b>64</b>	<b>26</b>	<b>TBP</b>	<b>TBP</b>	

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

Table 14 provides parallel information by percentage of fleet as opposed to vessel count. As shown in the tables, Alaska ownership of the vessels qualified for one or more of these classes is largely restricted to Kodiak:

- No Amendment 80 class vessels were owned by residents of any Alaska community in 2014, and the minimal Alaska ownership of Amendment 80 class vessels was restricted exclusively to Kodiak in the period 2003-2014 (annual average of 5 vessels, or 1.9 percent of the overall fleet).

- No AFA class vessels were owned by residents of any Alaska community outside of Kodiak in 2014; outside of Kodiak there was no Alaska resident ownership of any AFA class vessels in the period 2003-2014 except for minimal Anchorage resident ownership (annual average of less than 0.5 vessels, or 1.2 percent of the overall fleet).
- << *Note: Rockfish program class vessels information TBD* >>

**Table 14. Total GOA Groundfish Trawl Vessels and Amendment 80, AFA, and Rockfish Program Status Designations, by Community of Vessel Owner, 2014 and Annual Average 2003-2014 (percentage of vessels)**

Geography	2014							Annual Average 2003-2014						
	Total Vessels	Amendment 80		AFA		Rockfish Program		Total Vessels	Amendment 80		AFA		Rockfish Program (2007-2014)	
		No	Yes	No	Yes	No	Yes		No	Yes	No	Yes	No	Yes
%							%							
Anchorage	2.5	2.9	0.0	3.5	0.0	TBP	TBP	1.5	1.8	0.0	1.7	1.2	TBP	TBP
Homer	0.0	0.0	0.0	0.0	0.0	TBP	TBP	0.4	0.4	0.0	0.5	0.0	TBP	TBP
King Cove	3.8	4.3	0.0	5.3	0.0	TBP	TBP	3.7	4.5	0.0	5.2	0.0	TBP	TBP
Kodiak	22.5	26.1	0.0	22.8	38.5	TBP	TBP	17.0	20.2	1.9	16.0	19.5	TBP	TBP
Petersburg	2.5	2.9	0.0	3.5	0.0	TBP	TBP	1.2	1.5	0.0	1.7	0.0	TBP	TBP
Sand Point	8.8	10.1	0.0	12.3	0.0	TBP	TBP	10.6	12.8	0.0	14.8	0.0	TBP	TBP
All Other Alaska	0.0	0.0	0.0	0.0	0.0	TBP	TBP	0.3	0.4	0.0	0.5	0.0	TBP	TBP
Alaska Total	40.0	46.4	0.0	47.4	38.5	TBP	TBP	34.6	41.7	1.9	40.4	20.6	TBP	TBP
Oregon Total	12.5	14.5	0.0	8.8	38.5	TBP	TBP	17.6	21.5	0.0	10.1	36.2	TBP	TBP
Washington Total	46.3	37.7	100.0	42.1	100.0	TBP	TBP	45.1	34.9	92.5	45.6	44.0	TBP	TBP
All Other States Total	1.3	1.4	0.0	1.8	0.0	TBP	TBP	2.9	2.5	5.0	4.1	0.0	TBP	TBP
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>TBP</b>	<b>TBP</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>TBP</b>	<b>TBP</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

## 2.1.6 Shore-Based Processors Accepting GOA Trawl-Caught Deliveries

Table 15 shows provides information on the distribution of shore-based processors that accepted trawl-caught GOA groundfish deliveries in the period 2003-2014. The communities specifically called out in the table are limited to subset of the communities otherwise selected for community profile characterization, plus Ninilchik, as these are the only communities that had at least one shore-based processor accepting trawl-caught deliveries of GOA groundfish in more than one year during the period 2003-2014 (with Ninilchik being the only community in the group averaging less than 0.5 shore-based processors per year accepting GOA trawl-caught groundfish). For the purposes of this analysis, shore-based GOA trawl-caught groundfish processors are defined as those shore-based entities (as identified by F\_ID [intent to operate] and SBPR [shore-based processor] codes in AKFIN [Alaska Fisheries Information Network] data) accepting catcher (or catcher processor) class vessel GOA trawl-caught groundfish deliveries, excluding halibut and/or sablefish.

**Table 15. Shore-Based Processors Accepting GOA Groundfish Trawl-Caught Deliveries by Community, 2003-2014 (number)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
Akutan	1	1	1	1	1	1	1	1	1	1	1	1	1.0
King Cove	2	2	2	2	1	1	1	1	1	1	1	1	1.3
Kodiak	6	8	7	8	10	9	9	9	9	7	8	7	8.1
Ninilchik	1	0	0	1	0	0	0	0	0	0	0	0	0.2
Sand Point	1	1	1	1	1	1	1	1	1	1	1	1	1.0
Seward	0	1	1	0	0	0	0	1	2	2	1	1	0.8
Unalaska/ Dutch Harbor	1	2	1	1	1	1	1	1	2	1	0	0	1.0
All Other Alaska*	2	0	0	0	0	0	0	0	0	1	0	0	0.3
All Alaska	14	15	13	14	14	13	13	14	16	14	12	11	13.6
Seattle	2	2	2	0	1	1	1	1	2	2	2	2	1.5
Unknown	0	0	0	1	1	0	0	0	0	1	0	1	0.3
<b>Total</b>	<b>16</b>	<b>17</b>	<b>15</b>	<b>15</b>	<b>16</b>	<b>14</b>	<b>14</b>	<b>15</b>	<b>18</b>	<b>17</b>	<b>14</b>	<b>14</b>	<b>15.4</b>

\* Other Alaska communities having shore-based processing of trawl-caught deliveries in 2003-2014 were Homer (2003), Kenai (2003), and Sitka (2012).

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

Table 16 provides parallel information displayed on a percentage basis.

**Table 16. Shore-Based Processors Accepting GOA Groundfish Trawl-Caught Deliveries by Community, 2003-2014 (percentage)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
	%												
Akutan	6.3	5.9	6.7	6.7	6.3	7.1	7.1	6.7	5.6	5.9	7.1	7.1	6.5
King Cove	12.5	11.8	13.3	13.3	6.3	7.1	7.1	6.7	5.6	5.9	7.1	7.1	8.6
Kodiak	37.5	47.1	46.7	53.3	62.5	64.3	64.3	60.0	50.0	41.2	57.1	50.0	52.4
Ninilchik	6.3	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Sand Point	6.3	5.9	6.7	6.7	6.3	7.1	7.1	6.7	5.6	5.9	7.1	7.1	6.5
Seward	0.0	5.9	6.7	0.0	0.0	0.0	0.0	6.7	11.1	11.8	7.1	7.1	4.9
Unalaska/Dutch Harbor	6.3	11.8	6.7	6.7	6.3	7.1	7.1	6.7	11.1	5.9	0.0	0.0	6.5
All Other Alaska	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	1.6
All Alaska	87.5	88.2	86.7	93.3	87.5	92.9	92.9	93.3	88.9	82.4	85.7	78.6	88.1
Seattle	12.5	11.8	13.3	0.0	6.3	7.1	7.1	6.7	11.1	11.8	14.3	14.3	9.7
Unknown	0.0	0.0	0.0	6.7	6.3	0.0	0.0	0.0	0.0	5.9	0.0	7.1	2.2
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

Table 17 provides information on the first wholesale gross revenues from trawl-caught GOA groundfish deliveries by community and year (2003-2014) to the extent possible within data confidentiality restrictions. As shown, only information for Kodiak can be disclosed on an individual community basis.

**Table 17. First Wholesale Gross Revenues from GOA Groundfish Trawl-Caught Deliveries to Shore-Based Processors by Community, 2003-2014 (adjusted 2015 dollars)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
	\$ (millions)												
Kodiak	76.8	78.8	107.0	96.7	92.9	111.0	77.9	103.9	117.3	119.9	133.4	138.6	104.5
All Other	19.0	25.4	47.7	38.0	29.3	31.0	19.3	35.0	29.4	46.3	30.6	29.0	31.7
<b>Total</b>	<b>95.8</b>	<b>104.3</b>	<b>154.7</b>	<b>134.8</b>	<b>122.2</b>	<b>142.0</b>	<b>97.3</b>	<b>138.9</b>	<b>146.8</b>	<b>166.2</b>	<b>164.0</b>	<b>167.6</b>	<b>136.2</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

Table 18 provides parallel information expressed as percentages of total first wholesale gross revenues. As shown, Kodiak accounts for about 77 percent of the total first wholesale gross revenues from deliveries of trawl-caught GOA groundfish to shore-based plants in all of Alaska (and elsewhere).

**Table 18. First Wholesale Gross Revenues from GOA Groundfish Trawl-Caught Deliveries to Shore-Based Processors by Community, 2003-2014 (percentage)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
	%												
Kodiak	80.1	75.6	69.2	71.8	76.1	78.2	80.1	74.8	79.9	72.1	81.3	82.7	76.7
All Other	19.9	24.4	30.8	28.2	23.9	21.8	19.9	25.2	20.1	27.9	18.7	17.3	23.3
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

*<< Note: Tables on first wholesale gross revenue diversification for processors accepting GOA trawl-caught deliveries, by community of operation, will be provided in the next version of this document pending receipt of data >>*

## 2.2 GOA Halibut Fishery Indicators

### 2.2.1 GOA Commercial Halibut Catcher Vessels, Areas 2C, 3A, 3B, and 4A

Table 19 shows information on the number of GOA commercial halibut catcher vessels by state and, within Alaska, by community for those communities with resident-owned fleets that are also engaged in the GOA trawl fisheries.<sup>16</sup> Of particular note among Alaska communities is the number of vessels in Petersburg, Kodiak, and Homer, which ranked second, third, and fourth, respectively, behind Sitka for the highest average number of resident owned GOA commercial halibut catcher vessels in the state over the period 2003-2014; Sand Point and Anchorage were also in the top ten. In other words, of the six Alaska communities most engaged in the GOA trawl fishery as measured by resident-owned catcher vessels, five are also among the top ten Alaska communities most engaged in the GOA commercial halibut fishery as measured by resident-owned catcher vessels.

**Table 19. Individual Commercial Halibut Catcher Vessels With Revenue From Areas 2C, 3A, 3B, and 4A by Community of Vessel Owner, 2003-2014 (number of vessels)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014
Anchorage	31	24	27	27	19	21	19	20	23	21	18	20	23
Homer	98	101	97	89	85	81	87	86	87	87	78	72	87
King Cove	5	5	5	6	7	7	8	6	7	6	4	4	5.8
Kodiak	122	122	116	122	123	114	102	105	110	104	87	82	109
Petersburg	126	129	122	118	114	114	113	116	101	104	100	97	113
Sand Point	29	25	26	23	24	26	23	21	23	21	17	21	23
All Other Alaska	700	666	657	648	628	580	531	528	499	473	445	453	567
Alaska Total	1,111	1,072	1,050	1,031	999	941	883	881	850	815	749	749	928
Oregon Total	43	40	36	32	28	26	24	20	21	22	21	21	28
Washington Total	126	127	124	129	123	122	114	109	107	101	92	88	114
All Other States Total	25	25	30	23	22	21	21	21	22	21	23	18	23
Total	1,303	1,262	1,240	1,214	1,172	1,110	1,041	1,031	1,000	958	885	876	1,091

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

<sup>16</sup> A more comprehensive summary of commercial halibut catcher vessels by community is provided in Attachment 1.

Table 20 provides similar information but on a percentage basis.

**Table 20. Individual Commercial Halibut Catcher Vessels With Revenue From Areas 2C, 3A, 3B, and 4A by Community of Vessel Owner, 2003-2014 (percentage)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014
	%												
Anchorage	2.4	1.9	2.2	2.2	1.6	1.9	1.8	1.9	2.3	2.2	2.0	2.3	2.1
Homer	7.5	8.0	7.8	7.3	7.3	7.3	8.4	8.3	8.7	9.1	8.8	8.2	8.0
King Cove	0.4	0.4	0.4	0.5	0.6	0.6	0.8	0.6	0.7	0.6	0.5	0.5	0.5
Kodiak	9.4	9.7	9.4	10.0	10.5	10.3	9.8	10.2	11.0	10.9	9.8	9.4	10.0
Petersburg	9.7	10.2	9.8	9.7	9.7	10.3	10.9	11.3	10.1	10.9	11.3	11.1	10.3
Sand Point	2.2	2.0	2.1	1.9	2.0	2.3	2.2	2.0	2.3	2.2	1.9	2.4	2.1
All Other Alaska	53.7	52.8	53.0	53.4	53.6	52.3	51.0	51.2	49.9	49.4	50.3	51.7	52.0
Alaska Total	85.3	84.9	84.7	84.9	85.2	84.8	84.8	85.5	85.0	85.1	84.6	85.5	85.0
Oregon Total	3.3	3.2	2.9	2.6	2.4	2.3	2.3	1.9	2.1	2.3	2.4	2.4	2.6
Washington Total	9.7	10.1	10.0	10.6	10.5	11.0	11.0	10.6	10.7	10.5	10.4	10.0	10.4
All Other States Total	1.9	2.0	2.4	1.9	1.9	1.9	2.0	2.0	2.2	2.2	2.6	2.1	2.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

Table 21 shows GOA commercial halibut catcher vessel exvessel gross revenue information by community and year (2003-2014). Clearly apparent is the relative economic importance of Kodiak, Homer, and Petersburg, which together account for approximately 54 percent of the state total over this time period.

**Table 21. GOA Halibut Catcher Vessels Exvessel Gross Revenues by Community of Vessel Owner, 2003-2014 (adjusted 2015 dollars)**

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
<b>Geography</b>	<b>\$ (millions)</b>												
Anchorage	3.80	4.05	3.60	4.22	4.25	4.28	3.28	3.82	4.16	2.73	2.05	2.04	3.52
Homer	23.09	23.02	19.86	24.06	26.64	24.90	19.10	27.78	25.98	17.27	12.98	10.32	21.25
King Cove	1.39	1.33	1.10	1.03	.96	1.07	.77	.81	1.11	.77	.48	.33	.93
Kodiak	44.23	42.13	36.50	41.17	44.08	42.55	29.01	38.91	36.84	23.54	16.84	13.61	34.12
Petersburg	19.39	22.12	23.17	25.83	25.82	21.64	13.79	17.96	14.27	12.02	10.01	10.29	18.03
Sand Point	3.48	2.73	2.37	2.24	2.11	3.03	1.57	2.35	2.09	1.39	.64	.65	2.05
All Other Alaska	65.65	70.45	64.46	72.53	78.07	65.37	42.46	57.38	49.01	38.37	31.36	30.15	55.44
<b>Alaska Total</b>	<b>161.03</b>	<b>165.83</b>	<b>151.05</b>	<b>171.08</b>	<b>181.94</b>	<b>162.84</b>	<b>109.97</b>	<b>149.01</b>	<b>133.47</b>	<b>96.09</b>	<b>74.36</b>	<b>67.40</b>	<b>135.34</b>
Oregon Total	16.21	15.05	12.82	13.67	15.68	12.76	7.78	9.17	8.31	6.51	4.63	3.26	10.49
Washington Total	48.82	48.20	43.46	49.67	53.01	48.49	34.19	47.01	43.26	29.29	22.33	18.36	40.51
All Other States Total	8.63	6.02	6.12	5.72	5.92	6.63	4.59	6.39	6.28	4.77	4.10	2.43	5.63
<b>Total</b>	<b>234.70</b>	<b>235.10</b>	<b>213.46</b>	<b>240.14</b>	<b>256.55</b>	<b>230.72</b>	<b>156.53</b>	<b>211.59</b>	<b>191.32</b>	<b>136.65</b>	<b>105.42</b>	<b>91.45</b>	<b>191.97</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)



Table 22 provides similar information on a percentage basis.

**Table 22. GOA Halibut Catcher Vessels Exvessel Gross Revenues by Community of Vessel Owner, 2003-2014 (percentage)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
	%												
Anchorage	1.6	1.7	1.7	1.8	1.7	1.9	2.1	1.8	2.2	2.0	1.9	2.2	1.8
Homer	9.8	9.8	9.3	10.0	10.4	10.8	12.2	13.1	13.6	12.6	12.3	11.3	11.1
King Cove	0.6	0.6	0.5	0.4	0.4	0.5	0.5	0.4	0.6	0.6	0.5	0.4	0.5
Kodiak	18.8	17.9	17.1	17.1	17.2	18.4	18.5	18.4	19.3	17.2	16.0	14.9	17.8
Petersburg	8.3	9.4	10.9	10.8	10.1	9.4	8.8	8.5	7.5	8.8	9.5	11.3	9.4
Sand Point	1.5	1.2	1.1	0.9	0.8	1.3	1.0	1.1	1.1	1.0	0.6	0.7	1.1
All Other Alaska	28.0	30.0	30.2	30.2	30.4	28.3	27.1	27.1	25.6	28.1	29.7	33.0	28.9
Alaska Total	68.6	70.5	70.8	71.2	70.9	70.6	70.3	70.4	69.8	70.3	70.5	73.7	70.5
Oregon Total	6.9	6.4	6.0	5.7	6.1	5.5	5.0	4.3	4.3	4.8	4.4	3.6	5.5
Washington Total	20.8	20.5	20.4	20.7	20.7	21.0	21.8	22.2	22.6	21.4	21.2	20.1	21.1
All Other States Total	3.7	2.6	2.9	2.4	2.3	2.9	2.9	3.0	3.3	3.5	3.9	2.7	2.9
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

<< Note: Tables on GOA halibut catcher vessels exvessel gross revenue diversification by community of vessel owner for (1) all communities and (2) Alaska communities will be provided in the next version of this document pending receipt of data >>

## **2.2.2 Shore-Based Processors Accepting GOA Commercial Halibut Deliveries**

*<< Note: Tables similar to those appearing in the shore-based processors accepting GOA trawl-caught deliveries section TBP in the next version of this document, pending receipt of data >>*

## **2.2.3 GOA Commercial Halibut Quota Holdings, Areas 2C, 3A, 3B, and 4A**

Table 23 provides information on the distribution of commercial halibut quota share (QS) holders under the halibut Individual Fishing Quota (IFQ) program in areas 2C, 3A, 3B, and 4A<sup>17</sup> combined in each of the Alaska communities substantially engaged in the GOA trawl fishery through resident ownership of catcher vessels as well as all other Alaska communities combined,<sup>18</sup> along with the total number of QS holders from the states of Alaska, Oregon, and Washington, as well as all other states combined.

<sup>17</sup> For this analysis, for the sake of completeness, Area 4A, typically considered outside of the GOA for fishery management purposes, was added to this community analysis due to geographic overlap with the Western Gulf groundfish management area, the potential spillover of beneficial impacts into the only immediately adjacent region in U.S. federal waters, and an overlap of permits held by residents of at least some communities relevant to this analysis. See Section 4.XX (*TBD*) for more detail by individual halibut management area.

<sup>18</sup> A more comprehensive summary of commercial halibut QS holdings by community is provided in Attachment 1.

**Table 23. Commercial Halibut QS Holders for Areas 2C, 3A, 3B, and 4A (combined), by Community, 2003-2016 (number of holders)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Average 2003- 2016
Anchorage	190	172	161	159	145	133	129	122	120	105	105	102	100	106	132
Homer	236	229	217	220	207	195	192	195	195	185	173	165	168	168	196
King Cove	14	14	14	13	14	15	14	15	15	13	13	11	13	13	14
Kodiak	250	236	233	233	234	229	218	215	213	199	197	190	186	186	216
Petersburg	221	219	216	221	218	211	206	205	201	196	192	194	199	199	207
Sand Point	43	42	40	36	32	36	35	35	35	34	33	31	29	29	35
All Other Alaska	1,677	1,611	1,568	1,546	1,434	1,345	1,317	1,263	1,225	1,142	1,111	1,092	1,068	1,054	1,318
Alaska Total	2,617	2,510	2,437	2,417	2,273	2,155	2,104	2,044	1,998	1,869	1,818	1,782	1,760	1,753	2,110
Oregon Total	113	105	98	100	96	98	94	90	92	91	88	81	80	82	93
Washington Total	403	395	387	382	373	345	335	328	325	309	307	309	304	295	343
All Other States Total	175	182	189	172	160	141	148	146	139	133	139	130	121	125	150
<b>Total</b>	<b>3,292</b>	<b>3,175</b>	<b>3,096</b>	<b>3,058</b>	<b>2,889</b>	<b>2,727</b>	<b>2,671</b>	<b>2,596</b>	<b>2,543</b>	<b>2,394</b>	<b>2,342</b>	<b>2,292</b>	<b>2,258</b>	<b>2,247</b>	<b>2,684</b>

Source: NOAA 2016 (NOAA 2016)

Table 24 provides parallel information, but expressed in terms of percentages rather than as numbers of QS holders. As shown, halibut QS holders are largely concentrated in Alaska, but these holders are widely distributed among many communities, with approximately 62 percent of Alaska holders of halibut QS in these areas residing outside the Alaska communities substantially engaged in the GOA trawl fishery through resident ownership of catcher vessels.

**Table 24. Commercial Halibut QS Holders for Areas 2C, 3A, 3B, and 4A (combined), by Community, 2003-2014 (percentage)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Average 2003- 2016
	%														
Anchorage	5.8	5.4	5.2	5.2	5.0	4.9	4.8	4.7	4.7	4.4	4.5	4.5	4.4	4.7	4.9
Homer	7.2	7.2	7.0	7.2	7.2	7.2	7.2	7.5	7.7	7.7	7.4	7.2	7.4	7.5	7.3
King Cove	0.4	0.4	0.5	0.4	0.5	0.6	0.5	0.6	0.6	0.5	0.6	0.5	0.6	0.6	0.5
Kodiak	7.6	7.4	7.5	7.6	8.1	8.4	8.2	8.3	8.4	8.3	8.4	8.3	8.2	8.3	8.0
Petersburg	6.7	6.9	7.0	7.2	7.5	7.7	7.7	7.9	7.9	8.2	8.2	8.5	8.8	8.9	7.7
Sand Point	1.3	1.3	1.3	1.2	1.1	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.3
All Other Alaska	50.9	50.7	50.6	50.6	49.6	49.3	49.3	48.7	48.2	47.7	47.4	47.6	47.3	46.9	49.1
Alaska Total	79.5	79.1	78.7	79.0	78.7	79.0	78.8	78.7	78.6	78.1	77.6	77.7	77.9	78.0	78.6
Oregon Total	3.4	3.3	3.2	3.3	3.3	3.6	3.5	3.5	3.6	3.8	3.8	3.5	3.5	3.6	3.5
Washington Total	12.2	12.4	12.5	12.5	12.9	12.7	12.5	12.6	12.8	12.9	13.1	13.5	13.5	13.1	12.8
All Other States Total	5.3	5.7	6.1	5.6	5.5	5.2	5.5	5.6	5.5	5.6	5.9	5.7	5.4	5.6	5.6
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: NOAA 2016 (NOAA 2016)

Table 25 shows the distribution of commercial halibut QS units in areas 2C, 3A, 3B, and 4A combined held by residents of the Alaska communities substantially engaged in the GOA trawl fishery through resident ownership of catcher vessels as well as all other Alaska communities combined, along with the total number of QS units held by residents of the states of Alaska, Oregon, and Washington, plus all other states combined.

**Table 25. Commercial Halibut QS Units for Areas 2C, 3A, 3B, and 4A (Combined) Held by Community Residents, 2003-2016 (thousands of units)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Average 2003-2016
Anchorage	10,368	9,999	9,306	9,285	9,557	9,870	10,049	10,826	10,908	10,921	10,825	11,827	11,238	11,234	10,444
Homer	21,773	21,403	20,698	22,281	20,716	20,672	21,024	21,954	22,222	21,228	19,870	19,698	19,925	19,576	20,932
King Cove	852	845	869	867	857	939	857	953	953	783	916	1,010	1,234	1,234	941
Kodiak	42,986	42,677	44,804	46,624	46,148	47,864	45,787	44,648	45,070	44,657	45,131	43,112	42,142	41,915	44,540
Petersburg	27,457	28,554	28,881	28,578	28,315	29,596	29,384	29,409	28,202	28,370	28,497	29,168	29,858	30,245	28,894
Sand Point	2,792	2,784	2,612	2,105	1,850	2,344	2,461	2,466	2,446	2,489	2,476	2,370	2,258	2,258	2,408
All Other Alaska	87,771	86,768	86,730	86,625	86,036	85,109	87,140	86,751	86,985	88,346	88,602	88,707	89,933	89,790	87,521
Alaska Total	193,999	193,031	193,902	196,365	193,478	196,392	196,701	197,007	196,785	196,795	196,317	195,891	196,588	196,252	195,679
Oregon Total	24,362	23,553	21,670	20,777	20,856	18,128	16,897	19,061	19,531	22,270	21,749	22,990	22,873	22,469	21,228
Washington Total	79,170	80,675	80,031	78,421	80,628	79,603	78,753	76,852	76,481	73,688	74,603	75,214	76,018	77,021	77,654
All Other States Total	15,747	16,034	17,711	17,690	18,291	19,131	20,902	20,047	20,457	20,464	20,538	19,026	17,669	17,406	18,651
<b>Total</b>	<b>313,278</b>	<b>313,293</b>	<b>313,313</b>	<b>313,254</b>	<b>313,254</b>	<b>313,254</b>	<b>313,254</b>	<b>312,968</b>	<b>313,254</b>	<b>313,217</b>	<b>313,207</b>	<b>313,121</b>	<b>313,149</b>	<b>313,149</b>	<b>313,212</b>

Source: NOAA 2016 (NOAA 2016)

Table 26 provides parallel information, but expressed in terms of percentages rather than as absolute numbers of QS units held. As shown, halibut QS units ownership is largely concentrated in Alaska (but not as concentrated as the count of quota holders). These QS units are widely distributed among many communities, with approximately 55 percent of halibut QS units held by Alaska residents being held by residents of communities other than those substantially engaged in the GOA trawl fishery through resident ownership of catcher vessels.

**Table 26. Commercial Halibut QS Units for Areas 2C, 3A, 3B, and 4A (Combined) Held by Community Residents, 2003-2016 (percentage)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Average 2003- 2016
	%														
Anchorage	3.3	3.2	3.0	3.0	3.1	3.2	3.2	3.5	3.5	3.5	3.5	3.8	3.6	3.6	3.3
Homer	6.9	6.8	6.6	7.1	6.6	6.6	6.7	7.0	7.1	6.8	6.3	6.3	6.4	6.3	6.7
King Cove	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.4	0.4	0.3
Kodiak	13.7	13.6	14.3	14.9	14.7	15.3	14.6	14.3	14.4	14.3	14.4	13.8	13.5	13.4	14.2
Petersburg	8.8	9.1	9.2	9.1	9.0	9.4	9.4	9.4	9.0	9.1	9.1	9.3	9.5	9.7	9.2
Sand Point	0.9	0.9	0.8	0.7	0.6	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.8
All Other Alaska	28.0	27.7	27.7	27.7	27.5	27.2	27.8	27.7	27.8	28.2	28.3	28.3	28.7	28.7	27.9
Alaska Total	61.9	61.6	61.9	62.7	61.8	62.7	62.8	62.9	62.8	62.8	62.7	62.6	62.8	62.7	62.5
Oregon Total	7.8	7.5	6.9	6.6	6.7	5.8	5.4	6.1	6.2	7.1	6.9	7.3	7.3	7.2	6.8
Washington Total	25.3	25.8	25.5	25.0	25.7	25.4	25.1	24.6	24.4	23.5	23.8	24.0	24.3	24.6	24.8
All Other States Total	5.0	5.1	5.7	5.6	5.8	6.1	6.7	6.4	6.5	6.5	6.6	6.1	5.6	5.6	6.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: NOAA 2016 (NOAA 2016)

## 2.2.4 GOA Halibut Sport Fishery, Areas 2C, 3A, 3B, and 4A

Table 27 provides information on the number of sport charter halibut permit holders, permits by area (2C and 3A<sup>19</sup>), and total permits held by community for 2016 for each of the Alaska communities substantially engaged in the GOA trawl fishery, as measured by resident ownership of GOA trawl vessels,<sup>20</sup> and all other Alaska communities combined, as well as totals for the states of Alaska, Oregon, and Washington, and a total for all other states combined. As suggested by the large number of permit holders who are residents of “all other” Alaska communities (and the large number of permits held by those holders), halibut sport charter permits are widely held across a number of Alaska communities (61 total in 2016), although there is not an insignificant number of permit holders in any of the listed communities except for King Cove and Sand Point (neither of which had any residents who were permit holders). Both King Cove and Sand Point are located in area 3B, which is not subject to management under sport charter regulations. In terms of total number sport charter halibut permits held, in 2016 Kodiak ranked third in the state (behind Sitka and Ketchikan), with Homer and Anchorage ranking fourth and fifth, respectively. In other words, of the six Alaska communities most engaged in the GOA trawl fishery as measured by resident-owned catcher vessels, three are also among the top five Alaska communities most engaged in the GOA halibut sport charter fishery as measured by the number of permits held in 2016. A fourth community, Petersburg, ranked thirteenth in number of permits held in 2016.

**Table 27. Sport Charter Halibut Fishing Permits, Areas 2C and 3A, 2016**

Geography	Individual Permit Holders	Permits by Area		Total Permits Held
		2C	3A	
Anchorage	38	1	57	58
Homer	49	0	61	61
King Cove	0	0	0	0
Kodiak	37	0	64	64
Petersburg	13	16	0	16
Sand Point	0	0	0	0
All Other Alaska	376	480	282	762
Alaska Total	513	497	464	961
Oregon	8	5	4	9
Washington	28	34	9	43
All Other States	51	47	26	73
<b>Total</b>	<b>600</b>	<b>583</b>	<b>503</b>	<b>1,086</b>

Source: NOAA 2016 (NOAA 2016)

<sup>19</sup> Areas 3B and 4A do not have developed sport charter halibut sectors, at least in part due to the relative remoteness of the communities in the area as tourism destinations; all sport charter halibut discussions in this community analysis therefore focus exclusively on areas 2C and 3A.

<sup>20</sup> A more comprehensive summary of halibut sport charter permit holdings by community is provided in Attachment 1.

Table 28 provides information on sport halibut harvest for areas 2C and 3A, by charter and non-charter vessels, in terms of the number of fish harvested, the average weight per fish, and the total yield (millions of pounds of halibut), for each year 2003-2014 and the annual averages 2003-2014 for each of those variables.

**Table 28. Sport Harvest by Region: Number of Halibut Caught, Average Weight, and Total Poundage (millions of lbs), Charter and Non-Charter Vessels, 2003-2014**

Area	Type of Vessel	Measurement	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
2C	Charter	Number of Fish	73,784	84,327	102,206	90,471	109,835	102,965	53,602	41,202	36,545	42,436	52,675	65,036	71,257
		Avg. Weight per Fish (lb)	19.13	20.75	19.10	19.94	17.46	19.42	23.31	26.36	9.40	14.27	14.47	12.04	17.97
		Yield (millions of lb)	1.412	1.750	1.952	1.804	1.918	1.999	1.249	1.086	0.344	0.605	0.762	0.783	1.305
	Non-Charter	Number of Fish	45,697	62,989	60,364	50,520	68,498	66,296	65,549	52,896	42,202	54,696	78,078	69,060	59,737
		Avg. Weight per Fish (lb)	18.52	18.84	14.01	14.30	16.51	19.08	17.29	16.72	16.24	17.87	17.43	16.95	16.98
		Yield (millions of lb)	0.846	1.187	0.845	0.723	1.131	1.265	1.133	0.885	0.685	0.977	1.361	1.170	1.017
3A	Charter	Number of Fish	163,629	197,208	206,902	204,115	236,133	198,108	167,599	177,460	184,293	173,582	199,248	174,351	190,219
		Avg. Weight per Fish (lb)	20.67	18.60	17.83	17.95	16.95	17.05	16.31	15.20	15.16	13.16	12.62	11.65	16.10
		Yield (millions of lb)	3.382	3.668	3.689	3.664	4.002	3.378	2.734	2.698	2.793	2.284	2.514	2.032	3.070
	Non-Charter	Number of Fish	118,004	134,960	127,086	114,887	166,338	145,286	150,205	124,088	128,464	113,359	121,568	127,125	130,948
		Avg. Weight per Fish (lb)	17.34	14.35	15.61	14.57	13.71	13.37	13.47	12.79	12.57	11.83	11.94	12.06	13.63
		Yield (millions of lb)	2.046	1.937	1.984	1.674	2.281	1.942	2.023	1.587	1.615	1.341	1.452	1.533	1.785
Total	Charter	Number of Fish	237,413	281,535	309,108	294,586	345,968	301,073	221,201	218,662	220,838	216,018	251,923	239,387	261,476
		Avg. Weight per Fish (lb)	20.19	19.24	18.25	18.56	17.11	17.86	18.01	17.31	14.20	13.37	13.00	11.76	16.57
		Yield (millions of lb)	4.794	5.418	5.641	5.468	5.920	5.377	3.983	3.784	3.137	2.889	3.276	2.815	4.375
	Non-Charter	Number of Fish	163,701	197,949	187,450	165,407	234,836	211,582	215,754	176,984	170,666	168,055	199,646	196,185	190,685
		Avg. Weight per Fish (lb)	17.67	15.78	15.09	14.49	14.53	15.16	14.63	13.97	13.48	13.79	14.09	13.78	14.70
		Yield (millions of lb)	2.892	3.124	2.829	2.397	3.412	3.207	3.156	2.472	2.300	2.318	2.813	2.703	2.802

Source: ADFG 2016; AECOM 2012 (AECOM 2012) (ADFG 2016)



Table 29 provides information on sport halibut charter and non-charter harvest for sub-areas within areas 2C and 3A, in terms of total yield for each year 2011-2014, plus the annual average for that time period.

**Table 29. Sport Halibut Charter and Non-Charter Harvest by Area and Community, Total Yield (millions of lbs), 2011-2014**

Area	Region	Type	2011	2012	2013	2014	Average	
2C	Ketchikan	Charter	0.027	0.041	0.070	0.092	0.058	
		Non-Charter	0.062	0.107	0.212	0.152	0.133	
	POW Island	Charter	0.073	0.120	0.135	0.162	0.122	
		Non-Charter	0.099	0.130	0.197	0.130	0.139	
	PBG/WRG	Charter	0.023	0.059	0.085	0.037	0.051	
		Non-Charter	0.150	0.226	0.347	0.257	0.245	
	Sitka	Charter	0.126	0.216	0.222	0.253	0.204	
		Non-Charter	0.085	0.100	0.071	0.108	0.091	
	Jun/Haines/Skag	Charter	0.036	0.051	0.085	0.079	0.063	
		Non-Charter	0.145	0.140	0.204	0.211	0.175	
	Glacier Bay	Charter	0.059	0.118	0.166	0.160	0.126	
		Non-Charter	0.145	0.275	0.329	0.311	0.265	
	3A	Central Cook Inlet	Charter	0.664	0.522	0.651	0.440	0.569
			Non-Charter	0.478	0.319	0.358	0.372	0.382
Lower Cook Inlet		Charter	1.102	0.833	0.784	0.622	0.835	
		Non-Charter	0.536	0.477	0.536	0.484	0.508	
Kodiak		Charter	0.189	0.172	0.207	0.175	0.186	
		Non-Charter	0.130	0.147	0.105	0.155	0.134	
North Gulf Coast		Charter	0.547	0.414	0.486	0.458	0.476	
		Non-Charter	0.167	0.118	0.203	0.156	0.161	
Eastern PWS		Charter	0.101	0.107	0.113	0.101	0.106	
		Non-Charter	0.121	0.128	0.086	0.137	0.118	
Western PWS		Charter	0.044	0.079	0.084	0.086	0.073	
		Non-Charter	0.160	0.135	0.132	0.173	0.150	
Yakutat		Charter	0.125	0.128	0.135	0.101	0.123	
		Non-Charter	0.021	0.018	0.031	0.057	0.032	
Glacier Bay	Charter	0.022	0.029	0.054	0.050	0.039		
	Non-Charter	--	--	--	--	--		

Source: ADFG 2016 (ADFG 2016)

## 2.2.5 GOA Halibut Subsistence Fishery, Areas 2C, 3A, 3B, and 4A

Table 30 provides information on subsistence halibut harvest by community, for each of the Alaska communities substantially engaged in the GOA trawl fishery, as measured by resident ownership of GOA trawl vessels,<sup>21</sup> for all other Alaska communities combined, for the state as a whole, in terms of the number of subsistence fishermen, the number of fish harvested, and the total pounds of halibut caught for each year 2003-2014 and the annual averages 2003-2014 for each of those variables.

**Table 30. Estimated Number of Halibut Subsistence Fishermen, Number of Halibut Caught, and Poundage Caught, by Alaska Community, 2003-2014 (numbers, pounds)**

Community	Measurement	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014 (available years)
Anchorage	Number of Subsistence Fishermen	37	46	39	49	62	48	52	47	71	49	--	38	49
	Number of Halibut Caught	465	967	666	696	695	324	618	524	619	564	--	268	582
	Pounds of Halibut Caught	11,206	25,239	15,474	16,854	13,619	7,692	12,991	13,545	10,283	11,502	--	6,200	13,146
Homer	Number of Subsistence Fishermen	7	10	11	15	7	20	19	11	12	12	--	13	12
	Number of Halibut Caught	74	132	108	80	36	163	479	183	175	199	--	81	155
	Pounds of Halibut Caught	1,455	1,134	1,770	820	462	1,948	7,561	1,984	2,407	2,767	--	1,419	2,157
King Cove	Number of Subsistence Fishermen	23	26	31	38	27	43	50	49	45	24	--	32	35

<sup>21</sup> A more comprehensive summary of halibut subsistence by Alaska community will be provided in Attachment 1 in the next version of this document.

Community	Measurement	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014 (available years)
	Number of Halibut Caught	399	355	330	458	310	382	328	510	360	270	--	293	363
	Pounds of Halibut Caught	7,857	9,022	8,432	8,017	5,978	7,319	5,995	7,871	6,477	3,981	--	5,047	6,909
Kodiak	Number of Subsistence Fishermen	646	802	871	961	945	963	923	900	837	769	--	763	853
	Number of Halibut Caught	6,526	8,359	10,694	8,750	9,381	9,366	9,346	8,445	7,953	6,704	--	6,401	8,357
	Pounds of Halibut Caught	153,254	187,214	210,828	205,822	193,633	177,334	177,769	164,092	138,348	125,820	--	118,123	168,385
Petersburg	Number of Subsistence Fishermen	415	482	436	426	386	393	418	409	370	383	--	375	408
	Number of Halibut Caught	2,975	3,727	3,305	3,084	2,902	2,841	2,816	2,817	2,385	2,494	--	2,677	2,911
	Pounds of Halibut Caught	55,718	71,784	61,372	53,682	47,517	46,600	46,766	47,266	40,087	44,912	--	48,375	51,280
Sand Point	Number of Subsistence Fishermen	21	109	100	133	136	130	70	61	85	61	--	64	88
	Number of Halibut Caught	225	561	1,356	914	1,364	1,510	654	559	607	357	--	440	777
	Pounds of Halibut Caught	4,819	11,355	21,901	20,214	24,615	25,013	11,759	7,306	13,397	5,708	--	6,387	13,861
All Other	Number of Subsistence Fishermen	3,783	4,509	4,133	4,287	4,370	3,706	3,758	3,505	3,279	3,088	--	3,217	3,785
	Number of Halibut Caught	33,260	38,311	39,416	40,107	39,009	34,018	31,172	30,274	26,035	26,377	--	30,504	33,498

Community	Measurement	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014 (available years)
	Pounds of Halibut Caught	807,013	887,414	858,445	819,903	746,469	621,082	597,993	554,893	486,106	490,644	--	574,398	676,760
	Number of Subsistence Fishermen	4,932	5,984	5,621	5,909	5,933	5,303	5,290	4,982	4,699	4,386	--	4,502	5,231
Alaska Total	Number of Halibut Caught	43,924	52,412	55,875	54,089	53,697	48,604	45,413	43,312	38,134	36,965	--	40,664	46,644
	Pounds of Halibut Caught	1,041,322	1,193,162	1,178,222	1,125,312	1,032,293	886,988	860,834	796,957	697,105	685,334	--	759,949	932,498

Source: ADFG 2016; AECOM 2012 (AECOM 2012) (ADFG 2016)

Table 31 provides the same information as the previous table, but in percentage rather than an absolute count basis. As suggested by the large number of subsistence fishermen who are residents of “all other” Alaska communities and the large number of fish and pounds of halibut harvested by these fishermen (typically between two-thirds and three-quarters of the state totals for each of the three variables in any given year), halibut subsistence activity is widespread among numerous Alaska communities, although there is neither an insignificant number of subsistence fishermen nor an insignificant volume of subsistence halibut caught in at least some of the individually listed communities.

**Table 31. Estimated Number of Halibut Subsistence Fishermen, Number of Halibut Caught, and Poundage Caught, by Alaska Community, 2003-2014 (percentages)**

Community	Measurement	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014 (available years)
		%												
	Number of Subsistence Fishermen	0.8	0.8	0.7	0.8	1.0	0.9	1.0	0.9	1.5	1.1	--	0.8	0.9
Anchorage	Number of Halibut Caught	1.1	1.8	1.2	1.3	1.3	0.7	1.4	1.2	1.6	1.5	--	0.7	1.2
	Pounds of Halibut Caught	1.1	2.1	1.3	1.5	1.3	0.9	1.5	1.7	1.5	1.7	--	0.8	1.4
Homer	Number of Subsistence Fishermen	0.1	0.2	0.2	0.3	0.1	0.4	0.4	0.2	0.3	0.3	--	0.3	0.2
	Number of Halibut Caught	0.2	0.3	0.2	0.1	0.1	0.3	1.1	0.4	0.5	0.5	--	0.2	0.3

Community	Measurement	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014 (available years)
		%												
	Pounds of Halibut Caught	0.1	0.1	0.2	0.1	0.0	0.2	0.9	0.2	0.3	0.4	--	0.2	0.2
King Cove	Number of Subsistence Fishermen	0.5	0.4	0.6	0.6	0.5	0.8	0.9	1.0	1.0	0.5	--	0.7	0.7
	Number of Halibut Caught	0.9	0.7	0.6	0.8	0.6	0.8	0.7	1.2	0.9	0.7	--	0.7	0.8
	Pounds of Halibut Caught	0.8	0.8	0.7	0.7	0.6	0.8	0.7	1.0	0.9	0.6	--	0.7	0.7
Kodiak	Number of Subsistence Fishermen	13.1	13.4	15.5	16.3	15.9	18.2	17.4	18.1	17.8	17.5	--	16.9	16.3
	Number of Halibut Caught	14.9	15.9	19.1	16.2	17.5	19.3	20.6	19.5	20.9	18.1	--	15.7	17.9
	Pounds of Halibut Caught	14.7	15.7	17.9	18.3	18.8	20.0	20.7	20.6	19.8	18.4	--	15.5	18.1
Petersburg	Number of Subsistence Fishermen	8.4	8.1	7.8	7.2	6.5	7.4	7.9	8.2	7.9	8.7	--	8.3	7.8
	Number of Halibut Caught	6.8	7.1	5.9	5.7	5.4	5.8	6.2	6.5	6.3	6.7	--	6.6	6.2
	Pounds of Halibut Caught	5.4	6.0	5.2	4.8	4.6	5.3	5.4	5.9	5.8	6.6	--	6.4	5.5
Sand Point	Number of Subsistence Fishermen	0.4	1.8	1.8	2.3	2.3	2.5	1.3	1.2	1.8	1.4	--	1.4	1.7
	Number of Halibut Caught	0.5	1.1	2.4	1.7	2.5	3.1	1.4	1.3	1.6	1.0	--	1.1	1.7
	Pounds of Halibut Caught	0.5	1.0	1.9	1.8	2.4	2.8	1.4	0.9	1.9	0.8	--	0.8	1.5
All Other	Number of Subsistence Fishermen	76.7	75.4	73.5	72.6	73.7	69.9	71.0	70.4	69.8	70.4	--	71.5	72.4
	Number of Halibut Caught	75.7	73.1	70.5	74.2	72.6	70.0	68.6	69.9	68.3	71.4	--	75.0	71.8
	Pounds of Halibut Caught	77.5	74.4	72.9	72.9	72.3	70.0	69.5	69.6	69.7	71.6	--	75.6	72.6
Alaska Total	Number of Subsistence Fishermen	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	--	100.0	100.0
	Number of Halibut Caught	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	--	100.0	100.0
	Pounds of Halibut Caught	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	--	100.0	100.0

Source: ADFG 2016; AECOM 2012 (AECOM 2012) (ADFG 2016)

## 2.3 GOA Chinook Salmon Fishery Indicators

### 2.3.1 GOA Commercial Chinook Salmon Catcher Vessels

Table 32 shows information on the number of GOA Chinook salmon catcher vessels by state and, within Alaska, by community for those communities with resident-owned fleets that are also engaged in the GOA trawl fisheries.<sup>22</sup> As shown, about 74 percent of all GOA Chinook salmon catcher vessels are owned by residents of Alaska communities are owned by residents of communities other than those most engaged in the GOA trawl fishery as measured by the number of resident-owned catcher vessels.

**Table 32. Individual Commercial Chinook Catcher Vessels With Revenue by Community of Vessel Owner, 2003-2014 (number of vessels)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014
Anchorage	68	77	73	66	63	55	61	66	67	61	67	75	67
Homer	126	120	149	142	118	112	122	121	130	124	161	145	131
King Cove	18	21	20	22	24	19	23	26	24	23	20	24	22
Kodiak	75	74	76	72	71	64	73	71	89	84	94	86	77
Petersburg	32	34	32	45	56	31	40	41	20	47	30	61	39
Sand Point	47	49	50	49	47	41	51	48	57	50	56	41	49
All Other Alaska	1,005	1,107	1,111	1,119	1,112	1,050	1,097	1,069	1,057	1,079	1,057	1,145	1,084
Alaska Total	1,370	1,481	1,509	1,515	1,491	1,372	1,467	1,442	1,444	1,466	1,483	1,575	1,468
Oregon Total	61	54	63	58	57	53	55	50	47	44	37	43	52
Washington Total	254	258	289	271	273	242	276	220	265	226	209	236	252
All Other States Total	69	64	84	83	92	94	113	82	88	83	93	100	87
<b>Total</b>	<b>1,751</b>	<b>1,857</b>	<b>1,945</b>	<b>1,925</b>	<b>1,909</b>	<b>1,759</b>	<b>1,909</b>	<b>1,794</b>	<b>1,844</b>	<b>1,819</b>	<b>1,822</b>	<b>1,952</b>	<b>1,857</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

<sup>22</sup> A more comprehensive summary of commercial Chinook salmon catcher vessels by community is provided in Attachment 2.

Table 33 shows similar information but on a percentage basis.

**Table 33. Individual Commercial Chinook Catcher Vessels With Revenue GOA Chinook by Community of Vessel Owner, 2003-2014 (percentage)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014
	%												
Anchorage	3.9	4.1	3.8	3.4	3.3	3.1	3.2	3.7	3.6	3.4	3.7	3.8	3.6
Homer	7.2	6.5	7.7	7.4	6.2	6.4	6.4	6.7	7.0	6.8	8.8	7.4	7.0
King Cove	1.0	1.1	1.0	1.1	1.3	1.1	1.2	1.4	1.3	1.3	1.1	1.2	1.2
Kodiak	4.3	4.0	3.9	3.7	3.7	3.6	3.8	4.0	4.8	4.6	5.2	4.4	4.2
Petersburg	1.8	1.8	1.6	2.3	2.9	1.8	2.1	2.3	1.1	2.6	1.6	3.1	2.1
Sand Point	2.7	2.6	2.6	2.5	2.5	2.3	2.7	2.7	3.1	2.7	3.1	2.1	2.6
All Other Alaska	57.4	59.6	57.1	58.1	58.3	59.7	57.5	59.6	57.3	59.3	58.0	58.7	58.4
Alaska Total	78.2	79.8	77.6	78.7	78.1	78.0	76.8	80.4	78.3	80.6	81.4	80.7	79.0
Oregon Total	3.5	2.9	3.2	3.0	3.0	3.0	2.9	2.8	2.5	2.4	2.0	2.2	2.8
Washington Total	14.5	13.9	14.9	14.1	14.3	13.8	14.5	12.3	14.4	12.4	11.5	12.1	13.5
All Other States Total	3.9	3.4	4.3	4.3	4.8	5.3	5.9	4.6	4.8	4.6	5.1	5.1	4.7
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

Table 34 shows GOA commercial Chinook salmon catcher vessel exvessel gross revenue information by community and year (2003-2014). As shown, about 92 percent of all GOA Chinook salmon catcher vessel exvessel gross revenue accrues to residents of Alaska communities other than those most engaged in the GOA trawl fishery as measured by the number of resident-owned catcher vessels.

**Table 34. GOA Chinook Catcher Vessels Exvessel Gross Revenues by Community of Vessel Owner, 2003-2014 (adjusted 2015 dollars)**

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014
<b>Geography</b>	<b>\$ (thousands)</b>												
Anchorage	349	442	338	280	276	121	106	115	163	159	133	199	224
Homer	359	287	345	350	324	88	117	146	291	262	124	237	244
King Cove	1	1	2	5	6	7	10	9	8	20	10	11	8
Kodiak	74	122	99	149	125	94	43	57	62	45	67	18	80
Petersburg	307	480	250	504	382	219	212	214	170	321	166	363	299
Sand Point	14	38	22	40	54	38	64	47	47	43	51	46	42
All Other Alaska	10,628	15,699	11,164	12,945	12,331	9,343	6,075	7,705	8,301	8,416	6,388	10,362	9,946
Alaska Total	11,732	17,070	12,221	14,272	13,497	9,910	6,626	8,293	9,044	9,268	6,940	11,236	10,842
Oregon Total	315	322	298	299	307	208	178	103	132	157	73	149	212
Washington Total	1,748	2,527	2,033	2,957	2,417	1,603	1,271	1,458	1,387	1,161	643	1,794	1,750
All Other States Total	1,068	1,646	1,521	1,294	1,602	1,683	875	678	1,171	506	638	818	1,125
<b>Total</b>	<b>14,863</b>	<b>21,564</b>	<b>16,074</b>	<b>18,822</b>	<b>17,824</b>	<b>13,404</b>	<b>8,951</b>	<b>10,531</b>	<b>11,733</b>	<b>11,092</b>	<b>8,293</b>	<b>13,997</b>	<b>13,929</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)



Table 35 provides similar information, but on a percentage basis.

**Table 35. GOA Chinook Catcher Vessels Exvessel Gross Revenues by Community of Vessel Owner, 2003-2014 (percentage)**

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014
<b>Geography</b>	<b>%</b>												
Anchorage	2.4	2.1	2.1	1.5	1.5	0.9	1.2	1.1	1.4	1.4	1.6	1.4	1.6
Homer	2.4	1.3	2.1	1.9	1.8	0.7	1.3	1.4	2.5	2.4	1.5	1.7	1.8
King Cove	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Kodiak	0.5	0.6	0.6	0.8	0.7	0.7	0.5	0.5	0.5	0.4	0.8	0.1	0.6
Petersburg	2.1	2.2	1.6	2.7	2.1	1.6	2.4	2.0	1.5	2.9	2.0	2.6	2.1
Sand Point	0.1	0.2	0.1	0.2	0.3	0.3	0.7	0.4	0.4	0.4	0.6	0.3	0.3
All Other Alaska	71.5	72.8	69.5	68.8	69.2	69.7	67.9	73.2	70.7	75.9	77.0	74.0	71.4
Alaska Total	78.9	79.2	76.0	75.8	75.7	73.9	74.0	78.7	77.1	83.6	83.7	80.3	77.8
Oregon Total	2.1	1.5	1.9	1.6	1.7	1.6	2.0	1.0	1.1	1.4	0.9	1.1	1.5
Washington Total	11.8	11.7	12.6	15.7	13.6	12.0	14.2	13.8	11.8	10.5	7.8	12.8	12.6
All Other States Total	7.2	7.6	9.5	6.9	9.0	12.6	9.8	6.4	10.0	4.6	7.7	5.8	8.1
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

### 2.3.2 Shore-Based Processors Accepting GOA Commercial Chinook Salmon Deliveries

<< Note: Tables similar to those appearing in the shore-based processors accepting GOA trawl-caught deliveries section will be provided in the next version of this document, pending receipt of data >>

### 2.3.3 GOA Commercial Chinook Salmon Permit Holdings

Table 36 provides information on the distribution of GOA commercial salmon permit holders in each of the Alaska communities substantially engaged in the GOA trawl fishery through resident ownership of catcher vessels as well as all other Alaska communities combined,<sup>23</sup> along with the total number of salmon permit holders from the states of Alaska, Oregon, and Washington, as well as all other states combined. << *Note: These data are currently for all salmon species and commercial salmon permits included in the tabulation include all gears (i.e., drift gillnet, purse seine, set gillnet, and “other” gear) as well as special harvest area permits (i.e., hatchery), for Cook Inlet, Prince William Sound, Yakutat, and Southeast Alaska. Statewide permits (for any gear) are not included in the tabulation. The data will be refined in next version of this document pending receipt of data. >>*

**Table 36. Commercial Gulf of Alaska Salmon (all species) Harvest Permits, by Community, 2003-2016 (number)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Average 2003-2016
Anchorage	319	323	319	310	313	317	335	326	325	315	301	317	299	273	313.7
Homer	268	304	296	279	300	351	351	383	414	423	412	405	377	335	349.9
King Cove	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Kodiak	15	15	20	18	20	20	23	23	16	13	17	13	16	13	17.3
Petersburg	149	155	177	172	173	170	178	179	186	174	163	159	172	149	168.3
Sand Point	1	1	1	1	1	1	2	4	2	1	1	1	1	0	1.3
All Other Alaska	2,076	2,073	2,134	2,063	2,099	2,111	2,062	2,145	2,199	2,145	2,128	2,139	2,129	1,867	2,097.9
Alaska Total	2,828	2,871	2,947	2,843	2,906	2,970	2,951	3,060	3,142	3,071	3,022	3,034	2,994	2,637	2,948.3
Oregon Total	145	131	136	127	125	127	133	129	124	132	129	122	114	108	127.3
Washington Total	592	590	608	585	575	582	592	608	608	586	564	528	521	459	571.3
All Other States Total	247	242	259	259	269	280	279	265	280	275	280	281	278	237	266.5
<b>Total</b>	<b>3,812</b>	<b>3,834</b>	<b>3,950</b>	<b>3,814</b>	<b>3,875</b>	<b>3,959</b>	<b>3,955</b>	<b>4,062</b>	<b>4,154</b>	<b>4,064</b>	<b>3,995</b>	<b>3,965</b>	<b>3,907</b>	<b>3,441</b>	<b>3,913.4</b>

Source: CFEC 2016 (CFEC 2016)

<sup>23</sup> A more comprehensive summary of commercial salmon permit holdings by community is provided in Attachment 2.

Table 37 shows similar information but in percentage germs

**Table 37. Commercial Gulf of Alaska Salmon (all species) Harvest Permits, by Community, 2003-2016 (percentage)**

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Average 2003-2016
<b>Geography</b>	<b>%</b>														
Anchorage	8.4	8.4	8.1	8.1	8.1	8.0	8.5	8.0	7.8	7.8	7.5	8.0	7.7	7.9	8.0
Homer	7.0	7.9	7.5	7.3	7.7	8.9	8.9	9.4	10.0	10.4	10.3	10.2	9.6	9.7	8.9
King Cove	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kodiak	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.4	0.3	0.4	0.3	0.4	0.4	0.4
Petersburg	3.9	4.0	4.5	4.5	4.5	4.3	4.5	4.4	4.5	4.3	4.1	4.0	4.4	4.3	4.3
Sand Point	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
All Other Alaska	54.5	54.1	54.0	54.1	54.2	53.3	52.1	52.8	52.9	52.8	53.3	53.9	54.5	54.3	53.6
Alaska Total	74.2	74.9	74.6	74.5	75.0	75.0	74.6	75.3	75.6	75.6	75.6	76.5	76.6	76.6	75.3
Oregon Total	3.8	3.4	3.4	3.3	3.2	3.2	3.4	3.2	3.0	3.2	3.2	3.1	2.9	3.1	3.3
Washington Total	15.5	15.4	15.4	15.3	14.8	14.7	15.0	15.0	14.6	14.4	14.1	13.3	13.3	13.3	14.6
All Other States Total	6.5	6.3	6.6	6.8	6.9	7.1	7.1	6.5	6.7	6.8	7.0	7.1	7.1	6.9	6.8
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: CFEC 2016 (CFEC 2016)

### **2.3.4 GOA Chinook Salmon Sport Fishery**

Table 38 provides information on the GOA sport Chinook salmon harvest by subarea in the Southeast and South-Central regions, in terms of the number of fish harvested, for each year 2003-2014 and the annual averages 2003-2014. << *Note: This table combines guided and non-guided harvest; in the next version of this document this table will be revised to parse out these differences, pending receipt of data*

>>

**Table 38. Sport Harvest by Region: Number of Chinook Salmon Harvested, 2003-2014 (number)**

Region	Area	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
Southeast	Ketchikan	11,788	14,393	16,483	10,084	11,370	11,030	22,633	10,128	12,387	4,831	11,039	13,878	12,504
	Prince of Wales Island	7,793	10,120	13,615	12,670	11,633	3,894	5,793	7,014	10,385	7,390	7,335	12,784	9,202
	Kake, Petersburg, Wrangell, Stikine	7,465	7,958	8,988	10,972	10,797	5,669	5,328	3,987	3,843	3,679	3,657	5,214	6,463
	Sitka	21,727	26,443	26,698	34,751	30,879	15,337	18,336	23,515	27,909	21,927	19,974	40,748	25,687
	Juneau	13,679	14,756	14,948	11,163	10,372	10,524	12,169	10,085	6,839	6,038	8,105	7,224	10,492
	Skagway	1,229	1,042	758	798	776	387	466	494	492	362	481	293	632
	Haines	888	853	601	504	524	63	269	248	762	199	164	153	436
	Glacier Bay	3,325	3,601	3,343	3,488	5,363	1,671	3,277	2,072	3,155	1,778	4,947	5,264	3,440
	Yakutat	1,476	1,406	1,141	1,364	1,134	690	1,294	960	803	291	690	1,384	1,053
South-Central	North Gulf Coast/Prince William Sound	6,372	5,553	6,059	7,931	6,438	5,650	6,145	5,366	3,928	3,076	5,811	4,618	5,579
	Knik Arm	2,562	2,556	3,692	3,813	4,326	2,843	2,152	1,076	1,012	292	495	1,026	2,154
	Anchorage	3,678	3,160	4,329	3,165	3,106	2,647	1,027	1,130	616	113	824	882	2,056
	Susitna River drainage	24,534	24,192	24,632	24,864	20,341	13,426	8,368	8,894	8,701	2,785	2,489	2,049	13,773
	West Cook Inlet drainages	1,124	782	546	1,038	1,380	437	829	854	76	0	0	130	600
	Kenai Peninsula freshwater	25,472	26,383	30,066	26,265	26,461	23,397	15,637	14,136	15,089	2,226	3,570	2,424	17,594
	Cook Inlet saltwater	14,828	17,737	18,850	16,368	12,556	8,562	6,546	10,134	9,284	6,890	11,022	11,989	12,064
	Cook Inlet (Shellfish only)	0	0	0	0	0	0	0	0	0	0	0	0	0
	Kodiak	9,031	11,263	9,298	11,821	11,251	9,466	8,854	6,440	7,926	7,558	9,333	8,854	9,258
	Alaska Peninsula/Aleutian Islands	3,105	4,263	3,215	3,682	2,538	2,134	2,826	2,329	2,923	2,687	1,966	1,609	2,773
Kvichak River drainage	577	1,293	1,440	1,132	1,075	1,072	300	418	1,427	917	949	1,088	974	
Nushagak, Wood River and Togiak	7,004	8,607	9,537	8,976	11,587	7,700	7,171	4,514	6,529	6,804	7,632	8,451	7,876	

Source: ADFG 2016 (ADFG 2016)

Table 39 provides similar information, but in terms of percentage.

**Table 39. Sport Harvest by Region: Number of Chinook Salmon Harvested, 2003-2014 (percentage)**

Region	Area	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014	
		%													
Southeast	Ketchikan	7.0	7.7	8.3	5.2	6.2	8.7	17.5	8.9	10.0	6.1	11.0	10.7	8.6	
	Prince of Wales Island	4.6	5.4	6.9	6.5	6.3	3.1	4.5	6.2	8.4	9.3	7.3	9.8	6.4	
	Kake, Petersburg, Wrangell, Stikine	4.5	4.3	4.5	5.6	5.9	4.5	4.1	3.5	3.1	4.6	3.6	4.0	4.5	
	Sitka	13.0	14.2	13.5	17.8	16.8	12.1	14.2	20.7	22.5	27.5	19.9	31.3	17.8	
	Juneau	8.2	7.9	7.5	5.7	5.6	8.3	9.4	8.9	5.5	7.6	8.1	5.6	7.3	
	Skagway	0.7	0.6	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.2	0.4
	Haines	0.5	0.5	0.3	0.3	0.3	0.0	0.2	0.2	0.2	0.6	0.2	0.2	0.1	0.3
	Glacier Bay	2.0	1.9	1.7	1.8	2.9	1.3	2.5	1.8	2.5	2.2	4.9	4.0	2.4	
	Yakutat	0.9	0.8	0.6	0.7	0.6	0.5	1.0	0.8	0.6	0.4	0.7	1.1	0.7	
South-Central	North Gulf Coast/Prince William Sound	3.8	3.0	3.1	4.1	3.5	4.5	4.7	4.7	3.2	3.9	5.8	3.6	3.9	
	Knik Arm	1.5	1.4	1.9	2.0	2.4	2.2	1.7	0.9	0.8	0.4	0.5	0.8	1.5	
	Anchorage	2.2	1.7	2.2	1.6	1.7	2.1	0.8	1.0	0.5	0.1	0.8	0.7	1.4	
	Susitna River drainage	14.6	13.0	12.4	12.8	11.1	10.6	6.5	7.8	7.0	3.5	2.5	1.6	9.5	
	West Cook Inlet drainages	0.7	0.4	0.3	0.5	0.8	0.3	0.6	0.8	0.1	0.0	0.0	0.1	0.4	
	Kenai Peninsula freshwater	15.2	14.2	15.2	13.5	14.4	18.5	12.1	12.4	12.2	2.8	3.6	1.9	12.2	
	Cook Inlet saltwater	8.8	9.5	9.5	8.4	6.8	6.8	5.1	8.9	7.5	8.6	11.0	9.2	8.3	
	Cook Inlet (Shellfish only)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Kodiak	5.4	6.0	4.7	6.1	6.1	7.5	6.8	5.7	6.4	9.5	9.3	6.8	6.4	
	Alaska Peninsula/Aleutian Islands	1.9	2.3	1.6	1.9	1.4	1.7	2.2	2.0	2.4	3.4	2.0	1.2	1.9	
	Kvichak River drainage	0.3	0.7	0.7	0.6	0.6	0.8	0.2	0.4	1.2	1.1	0.9	0.8	0.7	
Nushagak, Wood River and Togiak	4.2	4.6	4.8	4.6	6.3	6.1	5.5	4.0	5.3	8.5	7.6	6.5	5.4		

Source: ADFG 2016 (ADFG 2016)

## 2.3.5 GOA Chinook Salmon Subsistence and Personal Use Fishery

Table 40 provides information on the subsistence and personal use GOA Chinook salmon fishery by community, for each of the Alaska communities substantially engaged in the GOA trawl fishery, as measured by resident ownership of GOA trawl vessels,<sup>24</sup> for all other Alaska communities combined, and for the state as a whole, in terms of the number of returned households/permits, Chinook salmon harvest, and all salmon harvest, for each year 2010-2013 and the annual averages 2010-2013 for each of those variables.

**Table 40. Estimated Subsistence and Personal Use Chinook Salmon Harvests, 2010-2013 (number of fish)**

Geography	Measurement	2010	2011	2012	2013	Average 2010-2013
Anchorage	Returned Households/Permits	13,585	14,544	15,314	15,220	14,666
	Chinook Harvest	1,344	1,843	1,033	1,149	1,342
	All Salmon Harvest	281,228	338,400	355,915	286,106	315,412
Homer	Returned Households/Permits	728	826	837	840	808
	Chinook Harvest	60	77	37	71	61
	All Salmon Harvest	13,854	17,497	17,960	14,396	15,927
King Cove	Returned Households/Permits	49	40	46	48	46
	Chinook Harvest	0	4	52	10	17
	All Salmon Harvest	4,645	6,230	5,260	4,480	5,154
Kodiak	Returned Households/Permits	1,441	1,523	1,455	1,335	1,439
	Chinook Harvest	153	76	114	142	121
	All Salmon Harvest	21,138	30,872	22,597	26,251	25,215
Petersburg	Returned Households/Permits	95	102	138	184	130
	Chinook Harvest	5	2	23	38	17
	All Salmon Harvest	1,951	1,136	1,886	2,682	1,914
Sand Point	Returned Households/Permits	35	35	42	46	40
	Chinook Harvest	176	274	178	164	198
	All Salmon Harvest	5,074	4,411	5,926	4,441	4,963
All Other	Returned Households/Permits	29,028	30,350	30,673	31,417	30,367
	Chinook Harvest	133,340	129,042	73,774	83,043	104,800
	All Salmon Harvest	1,189,534	1,235,104	1,319,271	1,230,688	1,243,649
Alaska Total	Returned Households/Permits	44,961	47,420	48,505	49,090	47,494
	Chinook Harvest	135,078	131,318	75,211	84,617	106,556
	All Salmon Harvest	1,517,424	1,633,650	1,728,815	1,569,044	1,612,233

Source: ADFG 2013, 2013, 2014, 2015 (ADFG 2015) (ADFG 2014) (ADFG 2013) (ADFG 2013)

<sup>24</sup> A more comprehensive summary of GOA Chinook salmon subsistence and personal use by Alaska community is provided in Attachment 2.

Table 41 shows similar information, but on a percentage basis for each of the variables.

**Table 41. Estimated Subsistence and Personal Use Chinook Salmon Harvests, 2010-2013 (percentages)**

Geography	Measurement	2010	2011	2012	2013	Average 2010-2013
		%				
Anchorage	Returned Households/Permits	30.2	30.7	31.6	31.0	30.9
	Chinook Harvest	1.0	1.4	1.4	1.4	1.3
	All Salmon Harvest	18.5	20.7	20.6	18.2	19.6
Homer	Returned Households/Permits	1.6	1.7	1.7	1.7	1.7
	Chinook Harvest	0.0	0.1	0.0	0.1	0.1
	All Salmon Harvest	0.9	1.1	1.0	0.9	1.0
King Cove	Returned Households/Permits	0.1	0.1	0.1	0.1	0.1
	Chinook Harvest	0.0	0.0	0.1	0.0	0.0
	All Salmon Harvest	0.3	0.4	0.3	0.3	0.3
Kodiak	Returned Households/Permits	3.2	3.2	3.0	2.7	3.0
	Chinook Harvest	0.1	0.1	0.2	0.2	0.1
	All Salmon Harvest	1.4	1.9	1.3	1.7	1.6
Petersburg	Returned Households/Permits	0.2	0.2	0.3	0.4	0.3
	Chinook Harvest	0.0	0.0	0.0	0.0	0.0
	All Salmon Harvest	0.1	0.1	0.1	0.2	0.1
Sand Point	Returned Households/Permits	0.1	0.1	0.1	0.1	0.1
	Chinook Harvest	0.1	0.2	0.2	0.2	0.2
	All Salmon Harvest	0.3	0.3	0.3	0.3	0.3
All Other	Returned Households/Permits	64.6	64.0	63.2	64.0	63.9
	Chinook Harvest	98.7	98.3	98.1	98.1	98.4
	All Salmon Harvest	78.4	75.6	76.3	78.4	77.1
Alaska Total	Returned Households/Permits	100.0	100.0	100.0	100.0	100.0
	Chinook Harvest	100.0	100.0	100.0	100.0	100.0
	All Salmon Harvest	100.0	100.0	100.0	100.0	100.0

Source: ADFG 2013, 2013, 2014, 2015 (ADFG 2015) (ADFG 2014) (ADFG 2013) (ADFG 2013)



### 3 Community Profiles and the Local Context of Potential Impacts of GOA Trawl Bycatch Management Changes

*The communities to be profiled, organized by their sector mode of substantial GOA trawl fishery engagement/dependency, include:*

- *Alaska Communities*
  - *Harvesting and Processing*
    - *Kodiak*
    - *King Cove*
    - *Sand Point*
  - *Harvesting Only*
    - *Anchorage*
    - *Homer*
    - *Petersburg*
  - *Processing Only*
    - *Seward*
    - *Akutan*
    - *Unalaska/Dutch Harbor*
- *Pacific Northwest Aggregations of Communities*
  - *Harvesting Only*
    - *Seattle MSA*
    - *Coastal Oregon Communities*

*More detailed community descriptions will be provided for Kodiak, King Cove, and Sand Point. Those descriptions will be guided by the following outline:*

#### *Community*

- *Introduction/Location/History*
- *Community Demographics*
- *Local Economy*
- *Commercial Fisheries Engagement*
  - *Overview*
  - *Harvest Sector*
    - *General*
    - *GOA Trawl*
      - *GOA Trawl and Amendment 80, AFA, and Rockfish Program Designations*
    - *GOA Halibut*
    - *GOA Chinook Salmon*
  - *Processing Sector*
    - *General*

- *GOA trawl-caught processing*
- *GOA halibut processing*
- *GOA Chinook salmon processing*
- *Sport Fishing Engagement*
  - *Overview*
  - *Halibut Charter and Non-Charter*
  - *Chinook Salmon Charter and Non-Charter*
- *Subsistence Fishing Engagement*
  - *Overview*
  - *Halibut Subsistence*
  - *Chinook Salmon Subsistence*
- *Support Services Sector*
- *Public Revenues*

*For these more detailed community descriptions (Kodiak, King Cove, and Sand Point), information will be provided as available on residence of vessel owners, crew, and processing workers; annual or monthly employment trends at shore-based processing operations, to the extent practicable; and relevant sector demographic and socioeconomic baseline data from the 2014 AFSC Gulf of Alaska Groundfish Trawl Fishery Social Survey. For the communities be described in less detail, relevant information will be presented in more summary form, and only to the extent appropriate to contextualize the community's specific type of limited involvement in the GOA trawl fisheries.*

## 4 Community-Level Impacts

The community-level impacts analysis in this section is guided largely by the National Environmental Policy Act (NEPA); Executive Order (EO) 12898, Federal Action to Address Environmental Justice in Minority Population and Low-Income Populations; and National Standard 8 – Communities under the provisions of the Magnuson-Stevens Fishery Management and Conservation Act (Magnuson-Stevens Act).

- Under NEPA, “economic” and “social” effects are specific environmental consequences to be examined (40 CFR 1502.16 and 1508.8). Economic effects are examined primarily in the RIR, a part of the main document to which this community analysis document is appended, while social effects (and community-level economic effects) are examined primarily in this section of the community analysis.
- EO 12898 (59 FR 7629; February 16, 1994) directs Federal agencies “to make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations.” The EO directs the development of agency strategies to include identification of differential patterns of consumption of natural resources among minority populations and low-income populations; Council on Environmental Quality (CEQ) environmental justice guidance under NEPA (CEQ 1997) also specifically calls for consideration of potential disproportionately high and adverse impacts to Indian tribes<sup>25</sup> beyond a more general consideration of potential disproportionately high and adverse impacts to minority populations.<sup>26</sup> This section of the community analysis identifies minority populations and low-income populations potentially subject to high and adverse environmental effects of the proposed action alternatives and identifies potential changes to patterns of subsistence resource use among minority populations and low-income populations that may result from implementation of the proposed action alternatives.
- National Standard 8 (50 CFR 600.345) specifies that conservation and management measures shall, consistent with the conservation requirements of the Magnuson-Stevens Act, take into account the importance of fishery resources to fishing communities by utilizing economic and

<sup>25</sup> The term Indian tribe is retained due to its use in both the EO and CEQ guidance; the provisions of the EO and CEQ guidance are understood to apply to Alaska Native tribes in the region potentially affected by the proposed action alternatives.

<sup>26</sup> Per CEQ guidance on environmental justice, under NEPA, the identification of a disproportionately high and adverse human health or environmental effect (including interrelated social, cultural, and economic effects) on a low-income population, minority population, or Indian tribe does not preclude a proposed agency action from going forward, nor does it necessarily compel a conclusion that a proposed action is environmentally unsatisfactory. Rather, the identification of such an effect should heighten agency attention to alternatives, mitigation strategies, monitoring needs, and preferences expressed by the affected community or population. Further, per CEQ guidance, agencies should recognize the interrelated cultural, social, occupational, historical, or economic factors that may amplify the natural and physical environmental effects of the proposed agency action. The factors should include the physical sensitivity of the community or population to particular impacts; the effect of any disruption on the community structure associated with the proposed action; and the nature and degree of impact on the physical and social structure of the community. ([http://www.epa.gov/environmentaljustice/resources/policy/ej\\_guidance\\_nepa\\_ceq1297.pdf](http://www.epa.gov/environmentaljustice/resources/policy/ej_guidance_nepa_ceq1297.pdf)).

social data that are based on the best scientific information available in order to (1) provide for the sustained participation of such communities, and (2) to the extent practicable, minimize adverse economic impacts to such communities. Per National Standard 8, the term “fishing community” means a community that is substantially dependent on or substantially engaged in the harvest or processing of fishery resources to meet social and economic needs, and includes fishing vessel owners, operators, and crew, and fish processors that are based in such communities. A fishing community is a social or economic group whose members reside in a specific location and share a common dependency on commercial, recreational, or subsistence fishing or directly related fisheries-dependent services and industries (for example, boatyards, ice suppliers, tackle shops). Also per National Standard 8, the term “sustained participation” means continued access to the fishery within the constraints of the condition of the resource.

This section of the community analysis describes the engagement and dependency of fishing communities on the fisheries most likely to be affected by the proposed action alternatives and analyzes the risks to the sustained participation of those fishing communities.

#### **4.1 Community Engagement, Dependence, Vulnerability, and Risks to Fishing Community Sustained Participation in the GOA Trawl Fisheries**

Community engagement (participation) in the GOA groundfish trawl fisheries was detailed in terms of the distribution of sectors across communities in Section 2.0 and by sectors within the context of individual communities in Section 3.0. Vulnerability of communities to adverse community-level impacts from the proposed GOA trawl bycatch management revisions is in part a function of dependence of the community on the potentially affected GOA trawl fisheries and the economic resiliency and diversity of the community. Dependency is influenced by the relative importance of GOA trawl fisheries to vessels participating directly in the fisheries in comparison to all area, species, and gear fisheries in which those same vessels participate (community sector vessel diversity); the relative importance of the GOA trawl fisheries to all community resident-owned commercial fishing vessels participating in all area, species, and gear fisheries combined (community fleet diversity); and the relative importance of the overall community fishery sector(s) within the larger community economic base both in terms of private sector business activity and public revenues (community economic diversity). Also important to adverse community-level impact outcomes is the specific nature of local engagement in the potentially affected GOA trawl fisheries and alternative employment, income, business, and public revenue opportunities available within the community as a result of the location, scale, and relative economic diversity of the community. At their most extreme, potential adverse impacts associated with a proposed action could present a risk to fishing community sustained participation in the GOA trawl fisheries.

### **4.1.1 GOA Trawl Fishery Engagement in the Alaska Communities Profiled**

With regard to the specific GOA trawl communities profiled and assessed as part of this document, the levels and natures of engagement in the GOA trawl fishery vary widely. Three communities were directly and substantially engaged in the fishery through both local GOA trawl vessel ownership and local shore-based processing of GOA trawl-caught deliveries (Kodiak, Sand Point, and King Cove); three communities were directly engaged in the fishery exclusively, or almost exclusively, through local GOA trawl vessel ownership only (Anchorage, Homer, and Petersburg); and three communities were directly engaged in the fishery exclusively through local shore-based processing of GOA trawl-caught deliveries (Seward, Akutan, and Unalaska/Dutch Harbor). Specifically:

- Kodiak, on an annual average basis for the years 2003-2014, was engaged in the GOA trawl fisheries through local ownership of 15 trawl catcher vessels, with between 12 and 18 vessels participating in any given year. Average annual combined GOA trawl catcher vessel exvessel gross revenue was \$15.5 million. Kodiak averaged 8.1 shore-based processors accepting GOA trawl-caught deliveries per year 2003-2014, with between six and 10 processors participating in any given year. Average annual combined first wholesale gross revenue from GOA trawl-caught deliveries to these processors was \$104.5 million.
- Sand Point, on an annual average basis for the years 2003-2014, was engaged in the GOA trawl fisheries through local ownership of 9.4 trawl catcher vessels, with between seven and 13 vessels participating in any given year. Average annual combined GOA groundfish exvessel gross revenue for the trawl catcher vessels was \$3.7 million. Sand Point averaged 1.0 shore-based processor accepting GOA trawl-caught deliveries per year 2003-2014, with a single processor participating each year. Average annual first wholesale gross revenue from GOA trawl-caught deliveries to this processor cannot be disclosed.
- King Cove, on an annual average basis for the years 2003-2014 was engaged in the GOA trawl fisheries through local ownership of 3.3 trawl catcher vessels, with between two and five vessels participating in any given year. Average annual revenues for the trawl catcher vessels cannot be disclosed. King Cove averaged 1.3 shore-based processors accepting GOA trawl-caught deliveries per year 2003-2014, with two processors participating each year 2003-2006, and one processor participating each year 2007-2014. Average annual combined first wholesale gross revenue from GOA trawl-caught deliveries to these processors cannot be disclosed.
- Anchorage, on an annual average basis for the years 2003-2014 was engaged in the GOA trawl fisheries through local ownership of 1.3 trawl catcher vessels, with one or two vessels participating each year. Average annual revenues for the trawl catcher vessels cannot be disclosed. No Anchorage shore-based processors accepted GOA trawl-caught deliveries during this time period.
- Homer, on an annual average basis for the years 2003-2014 was engaged in the GOA trawl fisheries through local ownership of 0.3 trawl catcher vessels, with two vessels participating in

2003, one vessel participating in 2005 and 2006, and no vessels participating in the other nine years, including the eight most recent years covered by the data (2007-2014). Average annual revenues for the trawl catcher vessels cannot be disclosed. One Homer shore-based processor accepted GOA trawl-caught deliveries for one year only (2003) during this time period. First wholesale gross revenue from GOA trawl-caught deliveries to this processor cannot be disclosed.

- Petersburg, on an annual average basis for the years 2003-2014 was engaged in the GOA trawl fisheries through local ownership of 1.1 trawl catcher vessels, with one vessel participating each year 2003-2013 and two vessels participating in 2014. Average annual revenues for the trawl catcher vessels cannot be disclosed. No Petersburg shore-based processors accepted GOA trawl-caught deliveries during this time period.
- Seward, on an annual average basis for the years 2003-2014 was directly engaged in the GOA trawl fisheries exclusively through 0.8 shore-based processors accepting GOA trawl-caught deliveries during this time period, with one or two processors participating in each of seven years during this period and no processors participating in the other five years. Average annual first wholesale gross revenue from GOA trawl-caught deliveries to these processors cannot be disclosed.
- Akutan, on an annual average basis for the years 2003-2014 was directly engaged in the GOA trawl fisheries exclusively through 1.0 shore-based processors accepting GOA trawl-caught deliveries during this time period, with a single processor participating each year. Average annual first wholesale gross revenue from GOA trawl-caught deliveries to these processors cannot be disclosed.
- Unalaska/Dutch Harbor, on an annual average basis for the years 2003-2014 was directly engaged in the GOA trawl fisheries exclusively through 1.0 shore-based processors accepting GOA trawl-caught deliveries during this time period, with one or two processors participating each year 2003-2012 and none participating in 2013 or 2014. Average annual first wholesale gross revenue from GOA trawl-caught deliveries to these processors cannot be disclosed.

Figure 1 provides a graphic representation of GOA groundfish fisheries engagement and GOA halibut fisheries engagement for the communities profiled. Also shown in this table is relative community size, which, in these cases, corresponds to relative diversity of the local economy.

**Figure 1. Graphic Representation of Annual Average Engagement in Potentially Affected GOA Trawl, Halibut, and Chinook Salmon Fisheries for Profiled Alaska Communities**

Community		GOA Trawl Engagement		GOA Halibut Engagement			GOA Chinook Salmon Engagement	
Name	Size	Resident-Owned CVs	Shore-Based Processing	Resident-Owned CVs	Shore-Based Processing	Local Sport Charter Permit Holders	Resident-Owned CVs	Shore-Based Processing
Kodiak					<< TBD >>			<< TBD >>
Sand Point					<< TBD >>	none*		<< TBD >>
King Cove					<< TBD >>	none*		<< TBD >>
Anchorage			none		<< TBD >>			<< TBD >>
Homer					<< TBD >>			<< TBD >>
Petersburg			none		<< TBD >>			<< TBD >>
Seward		none			<< TBD >>			<< TBD >>
Akutan		none			<< TBD >>	none*	none	<< TBD >>
Unalaska/ Dutch Harbor		none			<< TBD >>	none*		<< TBD >>

**Key for Figure 1**

Type/Level of Engagement			
Community Size	2010 population = less than 1,000	2010 population = 1,000 – 10,000	2010 population = greater than 10,000
Trawl Catcher Vessel (CV) Participation	2003-2014 annual avg. = 0.1 – 0.9 vessels	2003-2014 annual avg. = 1.0 – 4.9 vessels	2003-2014 annual avg. = 5.0 or more vessels
Halibut/Chinook Salmon CV Participation	2003-2014 annual avg. = 0.1 – 9.9 vessels	2003-2014 annual avg. = 10.0 – 19.9 vessels	2003-2014 annual avg. = 20.0 or more vessels
Shore-Based Processing Participation	2003-2014 annual avg. = 0.1 – 0.9 plants	2003-2014 annual avg. = 1.0 – 1.9 plants	2003-2014 annual avg. = 2.0 or more plants
GOA Halibut Sport Charter Participation	2016 (only) = 1 – 19 permit holders	2016 (only) = 20 – 39 permit holders	2016 (only) = 40 or more permit holders

\* Note: King Cove and Sand Point are located in area 3B, and Akutan and Unalaska/Dutch Harbor in in area 4A, neither of which are managed under sport charter regulations.

### 4.1.2 GOA Trawl Fishery Dependency and Vulnerability to Adverse Community-Level Impacts of the Proposed Action Alternatives among Alaska Communities

The relative importance of the GOA trawl fisheries likely to be affected by the proposed GOA trawl bycatch management revisions within the larger local fisheries sector and within the larger local economic base varies widely among the engaged Alaska communities. Similarly, the socioeconomic structure of the engaged communities varies widely along with the relative diversity of their respective local economies.

#### **4.1.2.1 Kodiak**

*<< Note: this section will include “General” and “Environmental Justice Concerns” subsections, as will each of the other six same-level headings listed here >>*

#### **4.1.2.2 King Cove and Sand Point**

#### **4.1.2.3 Anchorage and Petersburg**

#### **4.1.2.4 Homer**

#### **4.1.2.5 Seward**

#### **4.1.2.6 Akutan and Unalaska/Dutch Harbor**

#### **4.1.2.7 Other Alaska Communities**

### **4.1.3 GOA Trawl Fishery Dependency and Vulnerability to Adverse Community-Level Impacts of the Proposed Action Alternatives Among Communities in the Pacific Northwest**

#### **4.1.3.1 Seattle MSA**

*<< Note: this section will include “General” and “Environmental Justice Concerns” subsections, as will the other (Oregon Coastal Communities) same-level section >>*

#### **4.1.3.2 Coastal Oregon Communities**



#### **4.1.4 Risks to Fishing Community Sustained Participation in the GOA Trawl Fisheries**

### **4.2 Potential Community-Level Impacts to GOA Halibut Fishery Dependent Communities**

#### **4.2.1 Overview**

#### **4.2.2 Background**

#### **4.2.3 Potential Differential Distribution of Impacts to GOA Communities Engaged in the Commercial Halibut Fishery**

#### **4.2.4 Potential Differential Distribution of Impacts to GOA Communities Engaged in the Sport Charter Halibut Fishery**

#### **4.2.5 Potential Impacts to GOA Communities Engaged in the Subsistence Halibut Fishery**

### **4.3 Potential Community-Level Impacts to GOA Chinook Salmon Fishery Dependent Communities**

#### **4.3.1 Overview**

#### **4.3.2 Background**

#### **4.3.3 Potential Differential Distribution of Impacts to GOA Communities Engaged in the Commercial Chinook Salmon Fishery**

#### **4.3.4 Potential Impacts to GOA Communities Engaged in the Chinook Salmon Sport Fishery**

#### **4.3.5 Potential Impacts to GOA Communities Engaged in the Subsistence and Personal Use Chinook Salmon Fisheries**

#### **4.4 Potential Cumulative Small/Rural Community and Cultural Context Issues**

#### **4.5 Other Social Impact Issues**

## **5      References Cited**

*<< Note: to be provided with next version of this document >>*

## **Attachment 1: Detailed GOA Halibut Community Data Tables**

### **GOA Halibut Commercial Fishery Catcher Vessel by Community Tables**

#### **Vessel Count Tables**

**Table 42. Individual GOA Commercial Halibut Catcher Vessels by Community of Vessel Owner, 2003-2013 (number of vessels)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
Sitka	152	148	149	150	134	130	120	128	127	118	115	123	133
Petersburg	126	129	122	118	114	114	113	116	101	104	100	97	113
Kodiak	122	122	116	122	123	114	102	105	110	104	87	82	109
Homer	98	101	97	89	85	81	87	86	87	87	78	72	87
Juneau	69	71	63	69	63	64	51	47	43	41	43	45	56
Wrangell	49	42	44	43	51	38	39	39	37	39	34	38	41
Ketchikan	41	43	41	45	45	33	31	29	29	23	24	22	34
Craig	25	31	32	28	23	27	27	26	24	21	19	19	25
Cordova	33	33	34	28	29	29	22	19	17	14	15	20	24
Sand Point	29	25	26	23	24	26	23	21	23	21	17	21	23
Anchorage	31	24	27	27	19	21	19	20	23	21	18	20	23
Haines	23	20	25	21	23	17	19	19	17	17	15	13	19
Yakutat	15	14	17	18	26	20	18	17	18	14	17	17	18
Douglas	18	12	14	15	16	14	13	14	12	14	12	12	14
Hoonah	17	15	18	16	17	14	12	14	11	8	11	9	14
Seward	11	13	11	8	9	12	12	13	12	13	10	7	11
Unalaska	14	15	11	11	9	12	13	11	9	9	8	6	11
Kenai	12	10	11	11	9	6	10	7	6	8	7	4	8
Kake	12	10	9	8	6	8	8	7	8	9	8	7	8
Ouzinkie	10	10	10	10	10	11	7	7	8	7	5	4	8
Wasilla	7	7	6	8	6	8	10	9	9	10	9	10	8
Anchor Point	13	12	10	5	8	9	8	6	6	3	3	4	7
Auke Bay	8	9	9	7	5	6	6	8	6	7	6	5	7
Gustavus	7	8	7	10	10	10	8	7	3	4	3	4	7
Seldovia	8	8	6	5	5	6	5	6	5	6	6	5	6
King Cove	5	5	5	6	7	7	8	6	7	6	4	4	6
Pelican	12	10	6	6	7	4	3	4	4	3	4	4	6
Soldotna	8	8	10	6	5	3	4	4	4	4	3	6	5

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
Port Alexander	8	7	7	5	6	5	5	5	4	4	3	3	5
Delta Junction	2	4	5	5	6	5	6	5	6	5	5	5	5
Metlakatla	5	4	4	7	7	4	4	6	5	5	4	4	5
Valdez	6	6	5	6	6	6	5	5	3	4	3	3	5
Elfin Cove	4	6	5	5	5	4	4	5	7	4	5	3	5
Palmer	7	8	6	6	3	2	4	3	3	3	4	4	4
Port Lions	2	3	2	6	5	6	3	6	5	4	1	1	4
Angoon	13	7	6	6	4	4	1	1	1	0	0	0	4
Kasilof	8	6	4	6	3	3	2	3	1	2	1	3	4
Ward Cove	7	4	4	6	4	3	2	2	4	2	2	2	4
Point Baker	6	5	4	3	3	2	2	4	3	3	2	4	3
Nikolaevsk	4	3	3	4	4	2	2	3	5	4	4	2	3
Old Harbor	1	1	3	2	4	6	6	6	4	4	1	1	3
Akutan	2	1	3	2	3	2	3	4	3	5	3	4	3
Chignik Lagoon	4	4	4	4	4	3	3	2	2	2	1	2	3
Edna Bay	2	3	3	3	2	3	4	2	3	4	3	1	3
Willow	3	3	3	4	3	4	2	2	3	2	2	0	3
Fritz Creek	2	3	3	1	2	3	1	1	2	3	4	5	3
Halibut Cove	4	3	3	3	2	2	2	2	2	1	2	2	2
Ninilchik	4	3	3	3	2	1	3	2	2	3	1	1	2
Hydaburg	4	5	3	5	4	3	0	0	1	1	1	0	2
Fairbanks	2	2	2	1	3	2	4	0	2	1	2	3	2
Sterling	2	2	2	2	2	1	1	0	1	3	3	5	2
Chignik	2	2	3	3	2	3	2	1	1	1	1	0	2
Perryville	2	2	1	2	2	2	2	2	2	2	0	1	2
Clam Gulch	2	2	2	2	2	2	2	2	1	1	1	0	2
Klawock	2	2	0	0	1	1	2	3	1	2	1	2	1
False Pass	2	2	2	1	1	2	1	1	1	1	1	1	1
Thorne Bay	1	1	1	1	1	1	1	1	2	1	2	2	1



Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
Naknek	0	0	1	0	0	0	0	0	0	0	0	0	0
Alaska Total	1,111	1,072	1,050	1,031	999	941	883	881	850	815	749	749	928
Oregon Total	43	40	36	32	28	26	24	20	21	22	21	21	28
Washington Total	126	127	124	129	123	122	114	109	107	101	92	88	114
All Other States Total	25	25	30	23	22	21	21	21	22	21	23	18	23
<b>Total</b>	<b>1,303</b>	<b>1,262</b>	<b>1,240</b>	<b>1,214</b>	<b>1,172</b>	<b>1,110</b>	<b>1,041</b>	<b>1,031</b>	<b>1,000</b>	<b>958</b>	<b>885</b>	<b>876</b>	<b>1,091</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)



**Table 43. Individual GOA Commercial Halibut Catcher Vessels by Community of Vessel Owner, 2003-2013 (percentage)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
	%												
Sitka	12	12	12	12	11	12	12	12	13	12	13	14	12
Petersburg	10	10	10	10	10	10	11	11	10	11	11	11	10
Kodiak	9	10	9	10	10	10	10	10	11	11	10	9	10
Homer	8	8	8	7	7	7	8	8	9	9	9	8	8
Juneau	5	6	5	6	5	6	5	5	4	4	5	5	5
Wrangell	4	3	4	4	4	3	4	4	4	4	4	4	4
Ketchikan	3	3	3	4	4	3	3	3	3	2	3	3	3
Craig	2	2	3	2	2	2	3	3	2	2	2	2	2
Cordova	3	3	3	2	2	3	2	2	2	1	2	2	2
Sand Point	2	2	2	2	2	2	2	2	2	2	2	2	2
Anchorage	2	2	2	2	2	2	2	2	2	2	2	2	2
Haines	2	2	2	2	2	2	2	2	2	2	2	1	2
Yakutat	1	1	1	1	2	2	2	2	2	1	2	2	2
Douglas	1	1	1	1	1	1	1	1	1	1	1	1	1
Hoonah	1	1	1	1	1	1	1	1	1	1	1	1	1
Seward	1	1	1	1	1	1	1	1	1	1	1	1	1
Unalaska	1	1	1	1	1	1	1	1	1	1	1	1	1
Kenai	1	1	1	1	1	1	1	1	1	1	1	0	1
Kake	1	1	1	1	1	1	1	1	1	1	1	1	1
Ouzinkie	1	1	1	1	1	1	1	1	1	1	1	0	1
Wasilla	1	1	0	1	1	1	1	1	1	1	1	1	1
Anchor Point	1	1	1	0	1	1	1	1	1	0	0	0	1
Auke Bay	1	1	1	1	0	1	1	1	1	1	1	1	1
Gustavus	1	1	1	1	1	1	1	1	0	0	0	0	1
Seldovia	1	1	0	0	0	1	0	1	1	1	1	1	1
King Cove	0	0	0	0	1	1	1	1	1	1	0	0	1
Pelican	1	1	0	0	1	0	0	0	0	0	0	0	1
Soldotna	1	1	1	0	0	0	0	0	0	0	0	1	0
Port Alexander	1	1	1	0	1	0	0	0	0	0	0	0	0
Delta Junction	0	0	0	0	1	0	1	0	1	1	1	1	0
Metlakatla	0	0	0	1	1	0	0	1	1	1	0	0	0
Valdez	0	0	0	0	1	1	0	0	0	0	0	0	0
Elfin Cove	0	0	0	0	0	0	0	0	1	0	1	0	0
Palmer	1	1	0	0	0	0	0	0	0	0	0	0	0
Port Lions	0	0	0	0	0	1	0	1	1	0	0	0	0
Angoon	1	1	0	0	0	0	0	0	0	0	0	0	0
Kasilof	1	0	0	0	0	0	0	0	0	0	0	0	0
Ward Cove	1	0	0	0	0	0	0	0	0	0	0	0	0
Point Baker	0	0	0	0	0	0	0	0	0	0	0	0	0
Nikolaevsk	0	0	0	0	0	0	0	0	1	0	0	0	0



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
<b>Geography</b>	<b>%</b>												
Bethel	0	0	0	0	0	0	0	0	0	0	0	0	0
Coffman Cove	0	0	0	0	0	0	0	0	0	0	0	0	0
Dillingham	0	0	0	0	0	0	0	0	0	0	0	0	0
Ivanof Bay	0	0	0	0	0	0	0	0	0	0	0	0	0
Naknek	0	0	0	0	0	0	0	0	0	0	0	0	0
Alaska Total	85	85	85	85	85	85	85	85	85	85	85	86	85
Oregon Total	3	3	3	3	2	2	2	2	2	2	2	2	3
Washington Total	10	10	10	11	10	11	11	11	11	11	10	10	10
All Other States Total	2	2	2	2	2	2	2	2	2	2	3	2	2
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

## Vessel Gross Revenue Tables

**Table 44. GOA Commercial Halibut Catcher Vessel Exvessel Gross Revenues by Community of Vessel Owner, 2003-2014 (adjusted 2015 dollars)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
	\$ (millions)												
Sitka	14.48	16.34	16.35	18.24	17.77	13.83	9.24	13.21	9.87	7.67	5.80	7.01	12.49
Petersburg	19.39	22.12	23.17	25.83	25.82	21.64	13.79	17.96	14.27	12.02	10.01	10.29	18.03
Kodiak	44.23	42.13	36.50	41.17	44.08	42.55	29.01	38.91	36.84	23.54	16.84	13.61	34.12
Homer	23.09	23.02	19.86	24.06	26.64	24.90	19.10	27.78	25.98	17.27	12.98	10.32	21.25
Juneau	5.69	7.54	7.31	7.44	6.77	5.43	3.29	4.00	3.12	2.64	2.75	2.90	4.91
Wrangell	3.73	4.28	3.51	4.31	4.33	2.88	1.83	2.38	1.73	1.68	1.58	1.98	2.85
Ketchikan	3.25	4.03	3.82	4.24	4.11	2.60	1.65	1.96	1.64	1.19	1.01	1.11	2.55
Craig	1.27	1.51	1.35	1.56	1.40	1.62	.86	.97	.60	.57	.50	.73	1.08
Cordova	4.95	4.97	4.15	4.71	6.19	5.47	3.63	4.34	3.92	2.89	2.17	1.98	4.11
Sand Point	3.48	2.73	2.37	2.24	2.11	3.03	1.57	2.35	2.09	1.39	.64	.65	2.05
Anchorage	3.80	4.05	3.60	4.22	4.25	4.28	3.28	3.82	4.16	2.73	2.05	2.04	3.52
Haines	1.13	1.17	1.20	1.31	2.44	1.84	1.35	1.94	1.47	1.22	1.15	1.17	1.45
Yakutat	.26	.50	.60	.76	1.02	1.05	.70	.99	1.09	1.05	1.22	1.26	.88
Douglas	1.87	1.29	1.49	2.27	2.76	2.28	1.42	2.31	2.19	1.63	1.25	1.19	1.83
Hoonah	1.69	.93	.87	.98	.90	.62	.38	.63	.42	.33	.41	.29	.70
Seward	3.89	4.36	2.93	3.24	4.66	4.42	3.10	3.89	3.34	2.85	2.16	1.27	3.34
Unalaska	2.28	1.86	1.38	1.78	1.97	1.86	1.09	1.74	2.43	1.51	1.12	.99	1.67
King Cove	1.39	1.33	1.10	1.03	.96	1.07	.77	.81	1.11	.77	.48	.33	.93
All Other Alaska	21.17	21.68	19.50	21.69	23.75	21.45	13.92	19.02	17.18	13.13	10.23	8.28	17.58
Alaska Total	161.03	165.83	151.05	171.08	181.94	162.84	109.97	149.01	133.47	96.09	74.36	67.40	135.34
Oregon Total	16.21	15.05	12.82	13.67	15.68	12.76	7.78	9.17	8.31	6.51	4.63	3.26	10.49
Washington Total	48.82	48.20	43.46	49.67	53.01	48.49	34.19	47.01	43.26	29.29	22.33	18.36	40.51
All Other States Total	8.63	6.02	6.12	5.72	5.92	6.63	4.59	6.39	6.28	4.77	4.10	2.43	5.63
<b>Total</b>	<b>234.70</b>	<b>235.10</b>	<b>213.46</b>	<b>240.14</b>	<b>256.55</b>	<b>230.72</b>	<b>156.53</b>	<b>211.59</b>	<b>191.32</b>	<b>136.65</b>	<b>105.42</b>	<b>91.45</b>	<b>191.97</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

**Table 45. GOA Commercial Halibut Catcher Vessel Exvessel Gross Revenues by Community of Vessel Owner, 2003-2014 (percentage)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
	%												
Sitka	6.2	7.0	7.7	7.6	6.9	6.0	5.9	6.2	5.2	5.6	5.5	7.7	6.5
Petersburg	8.3	9.4	10.9	10.8	10.1	9.4	8.8	8.5	7.5	8.8	9.5	11.3	9.4
Kodiak	18.8	17.9	17.1	17.1	17.2	18.4	18.5	18.4	19.3	17.2	16.0	14.9	17.8
Homer	9.8	9.8	9.3	10.0	10.4	10.8	12.2	13.1	13.6	12.6	12.3	11.3	11.1
Juneau	2.4	3.2	3.4	3.1	2.6	2.4	2.1	1.9	1.6	1.9	2.6	3.2	2.6
Wrangell	1.6	1.8	1.6	1.8	1.7	1.2	1.2	1.1	0.9	1.2	1.5	2.2	1.5
Ketchikan	1.4	1.7	1.8	1.8	1.6	1.1	1.1	0.9	0.9	0.9	1.0	1.2	1.3
Craig	0.5	0.6	0.6	0.7	0.5	0.7	0.5	0.5	0.3	0.4	0.5	0.8	0.6
Cordova	2.1	2.1	1.9	2.0	2.4	2.4	2.3	2.1	2.0	2.1	2.1	2.2	2.1
Sand Point	1.5	1.2	1.1	0.9	0.8	1.3	1.0	1.1	1.1	1.0	0.6	0.7	1.1
Anchorage	1.6	1.7	1.7	1.8	1.7	1.9	2.1	1.8	2.2	2.0	1.9	2.2	1.8
Haines	0.5	0.5	0.6	0.5	0.9	0.8	0.9	0.9	0.8	0.9	1.1	1.3	0.8
Yakutat	0.1	0.2	0.3	0.3	0.4	0.5	0.4	0.5	0.6	0.8	1.2	1.4	0.5
Douglas	0.8	0.5	0.7	0.9	1.1	1.0	0.9	1.1	1.1	1.2	1.2	1.3	1.0
Hoonah	0.7	0.4	0.4	0.4	0.4	0.3	0.2	0.3	0.2	0.2	0.4	0.3	0.4
Seward	1.7	1.9	1.4	1.3	1.8	1.9	2.0	1.8	1.7	2.1	2.1	1.4	1.7
Unalaska	1.0	0.8	0.6	0.7	0.8	0.8	0.7	0.8	1.3	1.1	1.1	1.1	0.9
King Cove	0.6	0.6	0.5	0.4	0.4	0.5	0.5	0.4	0.6	0.6	0.5	0.4	0.5
All Other Alaska	9.0	9.2	9.1	9.0	9.3	9.3	8.9	9.0	9.0	9.6	9.7	9.1	9.2
Alaska Total	68.6	70.5	70.8	71.2	70.9	70.6	70.3	70.4	69.8	70.3	70.5	73.7	70.5
Oregon Total	6.9	6.4	6.0	5.7	6.1	5.5	5.0	4.3	4.3	4.8	4.4	3.6	5.5
Washington Total	20.8	20.5	20.4	20.7	20.7	21.0	21.8	22.2	22.6	21.4	21.2	20.1	21.1
All Other States Total	3.7	2.6	2.9	2.4	2.3	2.9	2.9	3.0	3.3	3.5	3.9	2.7	2.9
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

# GOA Halibut Commercial Fishery IFQ Holder by Community Tables

## Unique IFQ Holder Tables

**Table 46. Number of Unique Commercial Halibut IFQ Program Quota Share Holders, by Alaskan Community, 2016**

Community	Number of Halibut Quota Share Holders Held by Area						
	2C	3A	3B	Subtotal 2C, 3A, and 3B	4A	4B	Subtotal 4A and 4B
Sitka	179	64	8	199	4	3	5
Petersburg	183	48	3	198	2	1	2
Kodiak	2	163	92	179	24	16	33
Homer	4	137	63	160	22	3	24
Juneau	96	32	3	108	4	1	4
Anchorage	5	84	22	101	7	4	8
Ketchikan	61	5	0	63	0	0	0
Cordova	3	55	4	59	6	1	6
Wrangell	54	4	0	55	0	0	0
Haines	34	8	0	36	0	1	1
Craig	34	0	0	34	0	0	0
Yakutat	1	33	0	34	0	0	0
Kenai	0	33	1	33	0	0	0
Sand Point	0	0	29	29	0	0	0
Soldotna	1	26	1	27	1	0	1
Seward	1	24	6	26	0	0	0
Wasilla	2	21	6	24	4	0	4
Hoonah	18	2	0	18	0	0	0
Douglas	13	9	1	16	0	0	0
Elfin Cove	13	3	0	13	0	0	0
King Cove	0	0	13	13	0	0	0
Seldovia	0	13	4	13	1	0	1
Ward Cove	11	0	0	11	0	0	0
Anchor Point	1	10	2	10	0	0	0
Auke Bay	10	2	0	10	0	0	0
Clam Gulch	0	10	0	10	0	0	0
Kasilof	1	10	1	10	0	0	0
Nikolaevsk	0	10	4	10	2	0	2
Valdez	0	9	1	10	0	0	0
Fairbanks	3	7	1	9	2	1	2
Gustavus	8	1	1	9	0	0	0

Community	Number of Halibut Quota Share Holders Held by Area						
	2C	3A	3B	Subtotal 2C, 3A, and 3B	4A	4B	Subtotal 4A and 4B
Kake	9	0	0	9	0	0	0
Sterling	0	9	4	9	0	0	0
Delta Junction	0	7	4	8	0	0	0
Pelican	8	6	0	8	0	0	0
Old Harbor	0	6	4	7	0	0	0
Ouzinkie	0	7	0	7	0	0	0
Palmer	0	5	2	7	0	0	0
Angoon	6	0	0	6	0	0	0
Port Alexander	5	1	0	6	0	0	0
Port Lions	0	6	0	6	1	0	1
Fritz Creek	0	5	1	5	0	0	0
Klawock	3	2	0	5	0	0	0
Metlakatla	5	1	0	5	0	0	0
Ninilchik	0	5	0	5	0	0	0
Point Baker	5	0	0	5	0	0	0
Tenakee Springs	2	2	0	4	0	0	0
Thorne Bay	4	0	0	4	0	0	0
Chignik Lagoon	0	1	3	3	0	0	0
Chugiak	1	2	0	3	0	0	0
Edna Bay	3	0	0	3	0	0	0
False Pass	0	0	3	3	0	0	0
Halibut Cove	0	3	1	3	0	0	0
Hydaburg	3	0	0	3	0	0	0
Nikiski	0	3	0	3	0	0	0
Saint Paul Island	1	1	2	3	5	0	5
Unalaska	0	1	2	3	19	3	21
Willow	0	3	0	3	0	0	0
Anderson	0	2	0	2	0	0	0
Chignik	0	0	2	2	0	0	0
Chiniak	0	2	0	2	0	0	0
Dillingham	1	1	2	2	1	1	2
Naknek	2	1	1	2	2	0	2
North Pole	0	2	0	2	0	0	0
Perryville	0	0	2	2	0	0	0
Port Graham	0	2	0	2	0	0	0
Togiak	2	0	0	2	2	0	2
Central	0	1	1	1	1	0	1
Chignik Lake	0	0	1	1	0	0	0
Coffman Cove	1	0	0	1	0	0	0
Hyder	1	0	0	1	0	0	0
Indian	0	1	0	1	0	0	0
King Salmon	0	0	1	1	1	0	1

Community	Number of Halibut Quota Share Holders Held by Area						Subtotal 4A and 4B
	2C	3A	3B	Subtotal 2C, 3A, and 3B	4A	4B	
Kotzebue	1	1	0	1	0	0	0
Larsen Bay	0	1	0	1	0	0	0
Mekoryuk	0	1	0	1	0	0	0
Meyers Chuck	1	0	0	1	0	0	0
Moose Pass	0	1	0	1	0	0	0
Nome	0	1	1	1	0	0	0
Pilot Point	1	0	0	1	1	0	1
Saint George Island	1	1	1	1	1	0	1
Skagway	1	0	0	1	0	0	0
Twin Hills	1	1	1	1	1	0	1
Wrangell	1	1	0	1	0	0	0
Adak	0	0	0	0	0	2	2
Akutan	0	0	0	0	9	0	9
Atka	0	0	0	0	0	9	9

Source: NOAA 2016 (NOAA 2016)



## Quota Shares Held Tables

**Table 47. Number of Commercial Halibut IFQ Program Quota Share Units Held, by Alaskan Community, 2016**

Community	Number of Halibut Quota Share Units Held by Area						
	2C	3A	3B	Subtotal 2C, 3A, and 3B	4A	4B	Subtotal 4A and 4B
Kodiak	1,969	28,802,639	10,561,213	39,365,821	2,549,242	1,588,001	4,137,243
Petersburg	17,051,160	12,745,635	295,491	30,092,286	152,338	2	152,340
Homer	34,554	13,421,128	4,731,995	18,187,677	1,388,732	197,148	1,585,880
Sitka	9,690,991	6,349,267	689,985	16,730,243	229,291	272,771	502,062
Anchorage	53,866	8,275,324	2,502,239	10,831,429	402,881	532,419	935,300
Juneau	5,587,894	3,730,895	35,890	9,354,679	42,869	2,368	45,237
Cordova	19,284	7,056,746	531,123	7,607,153	650,061	173,556	823,617
Wrangell	4,205,051	425,861	0	4,630,912	0	0	0
Seward	1,215	3,786,829	812,233	4,600,277	0	0	0
Ketchikan	2,859,744	771,286	0	3,631,030	0	0	0
Yakutat	1,086	2,978,574	0	2,979,660	0	0	0
Kenai	0	2,652,701	44,152	2,696,853	0	0	0
Seldovia	0	2,085,799	520,955	2,606,754	12,238	0	12,238
Douglas	815,122	1,204,409	566,036	2,585,567	0	0	0
Wasilla	73,184	2,033,402	307,374	2,413,960	101,473	0	101,473
Soldotna	910	2,208,506	63,434	2,272,850	13,986	0	13,986
Sand Point	0	0	2,257,825	2,257,825	0	0	0
Haines	1,688,825	451,670	0	2,140,495	0	7,293	7,293
Craig	1,746,951	0	0	1,746,951	0	0	0
Pelican	683,302	782,211	0	1,465,513	0	0	0
King Cove	0	0	1,233,907	1,233,907	0	0	0
Anchor Point	96,937	930,334	201,607	1,228,878	0	0	0
Elfin Cove	857,022	251,399	0	1,108,421	0	0	0

Number of Halibut Quota Share Units Held by Area							
Community	2C	3A	3B	Subtotal 2C, 3A, and 3B	4A	4B	Subtotal 4A and 4B
Delta Junction	0	921,604	135,513	1,057,117	0	0	0
Dillingham	91	709,914	304,885	1,014,890	22	370,314	370,336
Hoonah	707,339	242,267	0	949,606	0	0	0
Nikolaevsk	0	736,468	143,757	880,225	115,538	0	115,538
Palmer	0	536,431	174,942	711,373	0	0	0
Sterling	0	455,622	222,832	678,454	0	0	0
Auke Bay	481,439	160,678	0	642,117	0	0	0
Kasilof	2,394	559,994	78,742	641,130	0	0	0
Ninilchik	0	585,377	0	585,377	0	0	0
Kake	564,939	0	0	564,939	0	0	0
Wrangell	524,543	12,400	0	536,943	0	0	0
Fritz Creek	0	481,689	55,041	536,730	0	0	0
Clam Gulch	0	500,885	0	500,885	0	0	0
Valdez	0	433,439	4,401	437,840	0	0	0
False Pass	0	0	386,123	386,123	0	0	0
Halibut Cove	0	373,002	8,010	381,012	0	0	0
Fairbanks	92,283	192,391	81,942	366,616	120,159	22,392	142,551
Chignik Lagoon	0	319	365,147	365,466	0	0	0
Mekoryuk	0	361,887	0	361,887	0	0	0
Gustavus	298,837	59,371	3,546	361,754	0	0	0
Old Harbor	0	192,685	164,489	357,174	0	0	0
Metlakatla	262,799	82,675	0	345,474	0	0	0
Kotzebue	56,858	286,198	0	343,056	0	0	0
Ward Cove	323,562	0	0	323,562	0	0	0
Ouzinkie	0	249,865	0	249,865	0	0	0
Nikiski	0	245,553	0	245,553	0	0	0
Tenakee Springs	463	238,723	0	239,186	0	0	0
Nome	0	174,731	63,291	238,022	0	0	0

Number of Halibut Quota Share Units Held by Area							
Community	2C	3A	3B	Subtotal 2C, 3A, and 3B	4A	4B	Subtotal 4A and 4B
Port Alexander	227,749	78	0	227,827	0	0	0
Chiniak	0	211,566	0	211,566	0	0	0
Angoon	191,130	0	0	191,130	0	0	0
North Pole	0	182,809	0	182,809	0	0	0
Chugiak	121,248	57,735	0	178,983	0	0	0
Saint Paul Island	15,836	39,991	114,192	170,019	127,972	0	127,972
Edna Bay	163,377	0	0	163,377	0	0	0
Thorne Bay	143,735	0	0	143,735	0	0	0
Point Baker	137,335	0	0	137,335	0	0	0
Chignik	0	0	128,220	128,220	0	0	0
Klawock	10,981	114,830	0	125,811	0	0	0
Unalaska	0	9,891	108,152	118,043	1,505,642	235,447	1,741,089
Port Lions	0	77,810	0	77,810	52,906	0	52,906
Central	0	28,495	38,224	66,719	56,596	0	56,596
Port Graham	0	65,599	0	65,599	0	0	0
Willow	0	58,672	0	58,672	0	0	0
Perryville	0	0	37,903	37,903	0	0	0
Hydaburg	34,913	0	0	34,913	0	0	0
Hyder	28,778	0	0	28,778	0	0	0
Skagway	27,892	0	0	27,892	0	0	0
Coffman Cove	13,845	0	0	13,845	0	0	0
Meyers Chuck	11,906	0	0	11,906	0	0	0
Larsen Bay	0	6,408	0	6,408	0	0	0
Indian	0	4,703	0	4,703	0	0	0
Naknek	642	1,318	385	2,345	153	0	153
Chignik Lake	0	0	1,866	1,866	0	0	0
Anderson	0	986	0	986	0	0	0
Moose Pass	0	374	0	374	0	0	0

Number of Halibut Quota Share Units Held by Area							
Community	2C	3A	3B	Subtotal 2C, 3A, and 3B	4A	4B	Subtotal 4A and 4B
King Salmon	0	0	325	325	86	0	86
Pilot Point	305	0	0	305	73	0	73
Saint George Island	59	183	54	296	14	0	14
Togiak	249	0	0	249	60	0	60
Twin Hills	43	132	39	214	10	0	10
Adak	0	0	0	0	0	702,575	702,575
Akutan	0	0	0	0	236,932	0	236,932
Atka	0	0	0	0	0	352,180	352,180

Source: NOAA 2016 (NOAA 2016)

## GOA Halibut Sport Charter Permits by Community Tables

Table 48. Number of Sport Charter Halibut Fishing Permits Held, by Alaskan Community, 2016

Community	Unique Permit Holders	Permits by Area		Total Permits Held
		2C	3A	
Sitka	64	132	1	133
Ketchikan	37	131	0	131
Kodiak	37	0	64	64
Homer	49	0	61	61
Anchorage	38	1	57	58
Seward	24	0	53	53
Craig	19	46	0	46
Soldotna	25	3	42	45
Ninilchik	20	0	26	26
Juneau	20	23	1	24
Elfin Cove	10	15	8	23
Anchor Point	11	0	16	16
Petersburg	13	16	0	16
Auke Bay	5	15	0	15
Angoon	6	14	0	14
Klawock	8	14	0	14
Pelican	6	10	3	13
Port Lions	5	0	12	12
Yakutat	8	0	12	12
Old Harbor	4	0	10	10
Ward Cove	8	9	0	9
Hoonah	5	8	0	8
Larsen Bay	2	0	8	8
Port Alexander	4	8	0	8
Seldovia	2	0	8	8
Thorne Bay	5	8	0	8
Wasilla	6	0	8	8
Coffman Cove	4	7	0	7
Halibut Cove	1	0	7	7
Kenai	6	0	7	7
Nanwalek	1	0	7	7
Port Graham	1	0	7	7
Valdez	6	0	7	7
Tenakee Springs	2	6	0	6
Whittier	5	0	6	6
Wrangell	5	5	0	5
Chugiak	3	0	4	4

Community	Unique Permit Holders	Permits by Area		Total Permits Held
		2C	3A	
Cordova	2	0	4	4
Edna Bay	1	4	0	4
Gustavus	3	4	0	4
Hydaburg	1	4	0	4
Kasilof	4	0	4	4
North Pole	3	0	4	4
Palmer	4	1	3	4
Point Baker	1	4	0	4
Whale Pass	1	4	0	4
Eielson Afb	1	1	1	2
Fritz Creek	2	1	1	2
Haines	2	2	0	2
Sterling	2	0	2	2
Anderson	1	0	1	1
Aniak	1	0	1	1
Big Lake	1	0	1	1
Clam Gulch	1	0	1	1
Fairbanks	1	0	1	1
Fort Greely	1	0	1	1
Moose Pass	1	0	1	1
Naukati Bay	1	1	0	1
Ouzinkie	1	0	1	1
Pedro Bay	1	0	1	1
Salcha	1	0	1	1

Source: NOAA 2016 (NOAA 2016)

## **Attachment 2: Detailed GOA Chinook Salmon Community Data Tables**

### **GOA Chinook Salmon Commercial Fishery Catcher Vessel by Community Tables**

## Vessel Count Tables

**Table 49. Individual GOA Commercial Chinook Salmon Catcher Vessels by Community of Vessel Owner, 2003-2013 (number of vessels)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
Sitka	209	234	236	244	239	254	267	255	264	279	245	289	251
Cordova	255	255	250	249	253	255	242	245	241	237	244	249	248
Homer	126	120	149	142	118	112	122	121	130	124	161	145	131
Kodiak	75	74	76	72	71	64	73	71	88	84	94	86	77
Anchorage	68	77	73	66	63	55	61	66	67	61	67	75	67
Craig	43	54	51	60	54	50	52	51	55	66	57	68	55
Yakutat	42	56	60	61	57	62	59	58	51	50	50	47	54
Juneau	37	55	50	52	55	51	49	50	46	58	51	64	52
Sand Point	47	49	50	49	47	41	51	48	57	50	56	41	49
Petersburg	32	34	32	45	56	31	40	41	20	47	30	61	39
Wasilla	16	19	18	25	33	31	30	29	29	32	37	40	28
Kenai	43	38	39	34	27	17	37	27	22	12	27	13	28
Ketchikan	21	23	26	28	27	23	24	19	18	23	28	33	24
Soldotna	40	33	32	27	33	9	18	20	17	10	18	20	23
King Cove	18	21	20	22	24	19	23	26	24	23	20	24	22
Hoonah	17	20	20	21	25	22	22	19	23	23	14	16	20
Wrangell	18	22	18	26	23	18	21	17	13	22	14	27	20
Kasilof	23	22	26	24	21	15	21	18	17	7	18	13	19
Pelican	14	19	18	21	24	23	23	21	16	15	10	12	18
Chignik Lagoon	13	13	13	10	14	18	17	18	19	15	17	15	15
Haines	11	10	14	14	13	17	17	19	19	16	12	19	15
Seward	8	9	10	11	13	11	13	17	16	17	21	18	14
Elfin Cove	9	15	11	9	9	8	9	10	12	14	14	17	11
Douglas	10	11	12	14	10	10	9	9	7	9	8	7	10



Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
Klawock	4	9	7	12	11	11	9	9	10	11	10	12	10
Gustavus	4	5	6	7	9	11	13	11	7	11	13	14	9
Port Alexander	8	11	13	13	12	6	5	5	6	8	5	5	8
Anchor Point	8	9	9	10	8	7	7	6	7	5	2	8	7
Delta Junction	5	7	9	8	7	7	5	8	11	9	5	5	7
Sterling	7	9	9	6	7	5	7	7	5	5	6	11	7
Palmer	7	9	7	7	5	5	6	5	7	6	6	6	6
Old Harbor	6	5	6	6	5	4	6	7	7	7	7	7	6
Port Lions	6	7	7	5	5	5	6	7	7	7	7	4	6
Valdez	12	11	8	5	5	5	5	2	5	5	7	1	6
Nikiski	10	8	10	6	10	4	7	3	4	1	4	3	6
Hydaburg	5	6	6	5	6	2	6	6	6	8	5	5	6
Auke Bay	4	7	7	4	5	7	4	6	6	5	3	7	5
Perryville	7	5	5	5	6	5	6	5	5	5	6	3	5
Willow	5	5	3	4	3	3	6	6	8	6	7	6	5
Chignik	5	4	3	3	3	5	4	7	8	6	5	6	5
Ward Cove	3	3	6	4	4	4	3	5	6	8	6	5	5
Ninilchik	8	10	10	8	4	2	1	2	2	1	5	1	5
Nikolaevsk	4	4	5	4	5	1	4	2	5	3	5	5	4
Seldovia	2	4	5	5	4	5	5	4	3	2	2	4	4
False Pass	4	4	5	3	2	4	4	2	4	4	4	4	4
Fairbanks	6	4	3	4	5	7	4	2	1	2	2	1	3
Ouzinkie	3	4	4	3	3	3	3	3	5	4	3	3	3
Fritz Creek	3	2	4	4	4	3	5	4	1	2	4	4	3
Tenakee	3	3	4	5	3	2	2	2	4	2	3	5	3
Chignik Lake	3	3	4	3	3	3	4	4	4	2	2	2	3
Meyers Chuck	2	3	2	4	4	2	1	3	2	3	3	2	3
Thorne Bay	1	2	1	3	5	1	2	1	0	4	3	5	2
Unalaska	0	1	4	2	2	2	3	3	3	2	2	2	2

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
Kake	2	2	1	1	2	2	1	4	1	2	3	4	2
Clam Gulch	2	2	1	1	2	2	4	4	1	1	2	1	2
Nelson Lagoon	2	3	2	2	2	1	2	2	1	4	1	1	2
Circle City	1	2	2	2	2	2	2	2	2	2	2	1	2
Angoon	1	2	2	4	2	2	1	1	1	1	1	1	2
Tatitlek	3	3	3	2	2	2	2	1	1	0	0	0	2
Halibut Cove	2	2	2	1	1	1	1	2	1	1	2	2	2
Chugiak	4	4	3	1	1	1	0	0	0	0	0	2	1
Copper Center	2	2	2	2	1	1	1	1	1	1	1	1	1
Point Baker	0	0	0	2	0	3	1	2	1	3	3	1	1
Whittier	0	0	0	0	1	2	2	3	2	2	2	2	1
Larsen Bay	2	1	2	0	1	1	0	0	2	2	3	1	1
Sutton	0	0	0	0	1	1	1	1	2	2	3	2	1
Akhiok	1	2	1	1	0	0	1	1	1	1	1	2	1
North Pole	1	1	3	3	1	1	0	0	0	0	0	0	1
Big Lake	0	0	1	2	2	1	1	1	0	1	0	0	1
Edna Bay	0	1	0	0	3	0	1	1	0	2	0	1	1
Moose Pass	0	0	0	0	0	0	0	0	2	2	2	3	1
Port Graham	3	2	1	0	0	0	0	0	0	0	1	2	1
Chitina	1	1	3	3	0	0	0	0	0	0	0	0	1
Coffman Cove	2	2	1	0	0	0	0	0	0	0	0	0	0
Indian	0	1	1	1	1	1	0	0	0	0	0	0	0
Chiniak	0	0	0	0	0	0	0	0	1	1	1	1	0
Kotzebue	0	0	0	0	1	1	1	1	0	0	0	0	0
Naknek	0	0	0	0	0	0	0	0	1	1	1	1	0
Port Moller	0	0	0	0	0	0	0	0	0	1	1	2	0
Skagway	0	0	0	0	0	1	1	1	1	0	0	0	0
Barrow	0	0	0	0	1	0	1	0	0	0	1	0	0
Cold Bay	0	0	0	0	0	1	1	0	0	0	0	1	0

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
Metlakatla	0	0	1	1	0	0	0	0	0	0	0	1	0
Adak	0	1	1	0	0	0	0	0	0	0	0	0	0
Bethel	1	1	0	0	0	0	0	0	0	0	0	0	0
Bird Creek	1	1	0	0	0	0	0	0	0	0	0	0	0
Chenega Bay	0	1	1	0	0	0	0	0	0	0	0	0	0
Chignik Bay	0	0	0	0	0	0	0	1	1	0	0	0	0
Funter Bay	1	1	0	0	0	0	0	0	0	0	0	0	0
Iliamna	0	0	0	0	1	0	1	0	0	0	0	0	0
Naukatli Bay	0	0	0	0	0	0	0	1	0	1	0	0	0
Togiak	0	0	1	1	0	0	0	0	0	0	0	0	0
Houston	0	0	0	1	0	0	0	0	0	0	0	0	0
Ivanof Bay	0	0	1	0	0	0	0	0	0	0	0	0	0
Mekoryuk	1	0	0	0	0	0	0	0	0	0	0	0	0
Nome	0	0	0	1	0	0	0	0	0	0	0	0	0
Tok	0	0	1	0	0	0	0	0	0	0	0	0	0
Alaska Total	1,370	1,481	1,509	1,515	1,491	1,372	1,467	1,442	1,443	1,466	1,483	1,575	1,468
Oregon Total	61	54	63	58	57	53	55	50	47	44	37	43	52
Washington Total	254	258	289	271	273	242	276	220	265	226	209	236	252
All Other States Total	68	63	83	82	91	93	112	81	87	83	93	100	86
<b>Total</b>	<b>1,750</b>	<b>1,856</b>	<b>1,944</b>	<b>1,924</b>	<b>1,908</b>	<b>1,758</b>	<b>1,908</b>	<b>1,793</b>	<b>1,842</b>	<b>1,819</b>	<b>1,822</b>	<b>1,952</b>	<b>1,856</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014
<b>Geography</b>	<b>%</b>												
Willow	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.4	0.3	0.3
Chignik	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.4	0.4	0.3	0.3	0.3	0.3
Ward Cove	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.3
Ninilchik	0.5	0.5	0.5	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.2
Nikolaevsk	0.2	0.2	0.3	0.2	0.3	0.1	0.2	0.1	0.3	0.2	0.3	0.3	0.2
Seldovia	0.1	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.2
False Pass	0.2	0.2	0.3	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2
Fairbanks	0.3	0.2	0.2	0.2	0.3	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.2
Ouzinkie	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2
Fritz Creek	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.2	0.2	0.2
Tenakee	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.3	0.2
Chignik Lake	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2
Meyers Chuck	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1
Thorne Bay	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.0	0.2	0.2	0.3	0.1
Unalaska	0.0	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1
Kake	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.1
Clam Gulch	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Nelson Lagoon	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Circle City	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Angoon	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Tatitlek	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1
Halibut Cove	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Chugiak	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Copper Center	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Point Baker	0.0	0.0	0.0	0.1	0.0	0.2	0.1	0.1	0.1	0.2	0.2	0.1	0.1
Whittier	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1
Larsen Bay	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.2	0.1	0.1
Sutton	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1
Akhiok	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
North Pole	0.1	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Big Lake	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0
Edna Bay	0.0	0.1	0.0	0.0	0.2	0.0	0.1	0.1	0.0	0.1	0.0	0.1	0.0
Moose Pass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.0
Port Graham	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Chitina	0.1	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Coffman Cove	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indian	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chiniak	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0
Kotzebue	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Naknek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003- 2014
<b>Geography</b>	<b>%</b>												
Port Moller	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
Skagway	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Barrow	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0
Cold Bay	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0
Metlakatla	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Adak	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bethel	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bird Creek	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chenega Bay	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chignik Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
Funter Bay	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Iliamna	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Naukatli Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Togiak	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Houston	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ivanof Bay	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mekoryuk	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nome	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tok	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alaska Total	78.3	79.8	77.6	78.7	78.1	78.0	76.9	80.4	78.3	80.6	81.4	80.7	79.1
Oregon Total	3.5	2.9	3.2	3.0	3.0	3.0	2.9	2.8	2.6	2.4	2.0	2.2	2.8
Washington Total	14.5	13.9	14.9	14.1	14.3	13.8	14.5	12.3	14.4	12.4	11.5	12.1	13.6
All Other States Total	3.9	3.4	4.3	4.3	4.8	5.3	5.9	4.5	4.7	4.6	5.1	5.1	4.7
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

## Vessel Gross Revenue Tables

**Table 51. GOA Commercial Chinook Salmon Catcher Vessel Exvessel Gross Revenues by Community of Vessel Owner, 2003-2014 (adjusted 2015 dollars)**

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
<b>Geography</b>	<b>\$ (thousands)</b>												
Sitka	2,634	4,503	3,271	3,639	3,287	3,568	2,149	2,461	2,423	2,656	2,237	4,089	3,076
Cordova	3,729	3,978	3,287	2,529	3,446	1,269	831	813	1,546	1,092	776	741	2,003
Homer	359	287	345	350	324	88	117	146	291	262	124	237	244
Kodiak	74	122	99	149	125	94	43	57	61	45	67	18	79
Anchorage	349	442	338	280	276	121	106	115	163	159	133	199	224
Craig	901	1,497	1,184	1,449	926	773	351	1,041	1,039	1,078	676	1,112	1,002
Yakutat	321	582	459	534	487	711	362	671	478	530	726	457	526
Juneau	486	964	613	973	727	593	527	545	497	505	336	748	626
Sand Point	14	38	22	40	54	38	64	47	47	43	51	46	42
Petersburg	307	480	250	504	382	219	212	214	170	321	166	363	299
Wasilla	131	105	72	115	235	95	59	48	82	112	43	52	96
Kenai	28	36	21	32	60	24	8	11	3	15	14	9	22
Ketchikan	135	328	135	323	171	101	108	116	171	152	257	476	206
Soldotna	13	36	33	19	23	8	4	3	11	26	11	32	18
King Cove	1	1	2	5	6	7	10	9	8	20	10	11	8
Hoonah	69	295	121	286	359	272	161	181	221	122	75	224	199
Wrangell	254	357	207	491	341	154	115	247	169	339	158	350	265
Kasilof	17	29	12	26	4	4	3	3	4	2	4	3	9
Pelican	135	344	234	378	316	349	233	190	176	208	67	141	231
Chignik Lagoon	12	16	20	16	12	6	17	31	28	17	9	19	17
Haines	157	236	266	369	476	317	308	318	298	250	185	460	303
Seward	91	63	45	43	64	43	52	47	65	83	54	62	59

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
	\$ (thousands)												
Elfin Cove	102	311	103	217	161	100	97	136	149	279	152	269	173
Douglas	242	271	169	234	170	173	120	139	108	75	86	149	161
Klawock	34	180	81	138	96	84	58	87	124	144	72	140	103
All Other Alaska	1,136	1,568	832	1,134	970	699	512	617	709	730	451	828	849
Alaska Total	11,732	17,070	12,221	14,272	13,497	9,910	6,626	8,293	9,042	9,268	6,940	11,236	10,842
Oregon Total	315	322	298	299	307	208	178	103	132	157	73	149	212
Washington Total	1,748	2,527	2,033	2,957	2,417	1,603	1,271	1,458	1,387	1,161	643	1,794	1,750
All Other States Total	305	384	334	456	507	580	387	245	409	506	638	818	464
<b>Total</b>	<b>14,099</b>	<b>20,303</b>	<b>14,887</b>	<b>17,984</b>	<b>16,728</b>	<b>12,301</b>	<b>8,463</b>	<b>10,098</b>	<b>10,970</b>	<b>11,092</b>	<b>8,293</b>	<b>13,997</b>	<b>13,268</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

**Table 52. GOA Commercial Chinook Salmon Catcher Vessel Exvessel Gross Revenues by Community of Vessel Owner, 2003-2014 (percentage)**

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
	%												
Sitka	18.7	22.2	22.0	20.2	19.7	29.0	25.4	24.4	22.1	23.9	27.0	29.2	23.2
Cordova	26.4	19.6	22.1	14.1	20.6	10.3	9.8	8.1	14.1	9.8	9.4	5.3	15.1
Homer	2.5	1.4	2.3	1.9	1.9	0.7	1.4	1.4	2.7	2.4	1.5	1.7	1.8
Kodiak	0.5	0.6	0.7	0.8	0.7	0.8	0.5	0.6	0.6	0.4	0.8	0.1	0.6
Anchorage	2.5	2.2	2.3	1.6	1.6	1.0	1.2	1.1	1.5	1.4	1.6	1.4	1.7
Craig	6.4	7.4	8.0	8.1	5.5	6.3	4.1	10.3	9.5	9.7	8.1	7.9	7.6
Yakutat	2.3	2.9	3.1	3.0	2.9	5.8	4.3	6.6	4.4	4.8	8.8	3.3	4.0
Juneau	3.5	4.8	4.1	5.4	4.3	4.8	6.2	5.4	4.5	4.5	4.1	5.3	4.7
Sand Point	0.1	0.2	0.1	0.2	0.3	0.3	0.8	0.5	0.4	0.4	0.6	0.3	0.3
Petersburg	2.2	2.4	1.7	2.8	2.3	1.8	2.5	2.1	1.6	2.9	2.0	2.6	2.3
Wasilla	0.9	0.5	0.5	0.6	1.4	0.8	0.7	0.5	0.8	1.0	0.5	0.4	0.7
Kenai	0.2	0.2	0.1	0.2	0.4	0.2	0.1	0.1	0.0	0.1	0.2	0.1	0.2
Ketchikan	1.0	1.6	0.9	1.8	1.0	0.8	1.3	1.1	1.6	1.4	3.1	3.4	1.6



Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Average 2003-2014
	%												
Soldotna	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.1	0.2	0.1
King Cove	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Hoonah	0.5	1.5	0.8	1.6	2.1	2.2	1.9	1.8	2.0	1.1	0.9	1.6	1.5
Wrangell	1.8	1.8	1.4	2.7	2.0	1.3	1.4	2.4	1.5	3.1	1.9	2.5	2.0
Kasilof	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Pelican	1.0	1.7	1.6	2.1	1.9	2.8	2.8	1.9	1.6	1.9	0.8	1.0	1.7
Chignik Lagoon	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.3	0.3	0.2	0.1	0.1	0.1
Haines	1.1	1.2	1.8	2.1	2.8	2.6	3.6	3.1	2.7	2.3	2.2	3.3	2.3
Seward	0.6	0.3	0.3	0.2	0.4	0.4	0.6	0.5	0.6	0.8	0.7	0.4	0.4
Elfin Cove	0.7	1.5	0.7	1.2	1.0	0.8	1.1	1.3	1.4	2.5	1.8	1.9	1.3
Douglas	1.7	1.3	1.1	1.3	1.0	1.4	1.4	1.4	1.0	0.7	1.0	1.1	1.2
Klawock	0.2	0.9	0.5	0.8	0.6	0.7	0.7	0.9	1.1	1.3	0.9	1.0	0.8
All Other Alaska	8.1	7.7	5.6	6.3	5.8	5.7	6.1	6.1	6.5	6.6	5.4	5.9	6.4
Alaska Total	83.2	84.1	82.1	79.4	80.7	80.6	78.3	82.1	82.4	83.6	83.7	80.3	81.7
Oregon Total	2.2	1.6	2.0	1.7	1.8	1.7	2.1	1.0	1.2	1.4	0.9	1.1	1.6
Washington Total	12.4	12.4	13.7	16.4	14.4	13.0	15.0	14.4	12.6	10.5	7.8	12.8	13.2
All Other States Total	2.2	1.9	2.2	2.5	3.0	4.7	4.6	2.4	3.7	4.6	7.7	5.8	3.5
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: NMFS Alaska Region Catch Accounting System, data compiled by AKFIN in Comprehensive\_BLEND\_CA, 2016 (AKFIN 2016)

## GOA Chinook Salmon Commercial Fishery Permit Holder by Community Tables

Table 53. Commercial Salmon Harvest Permits, by Alaska Community, 2003-2016 (number)

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Average 2003-2016
Cordova	410	409	424	429	422	436	440	450	452	438	430	429	416	357	424
Homer	268	304	296	279	300	351	351	383	414	423	412	405	377	335	350
Anchorage	319	323	319	310	313	317	335	326	325	315	301	317	299	273	314
Kenai	210	218	232	217	224	230	212	225	228	224	225	235	244	217	224
Petersburg	149	155	177	172	173	170	178	179	186	174	163	159	172	149	168
Yakutat	152	137	142	130	151	151	140	139	151	133	128	136	122	109	137
Kasilof	152	157	148	140	138	133	120	132	134	133	137	134	129	119	136
Soldotna	126	125	133	124	137	127	129	127	136	137	126	120	134	123	129
Juneau	128	135	124	117	116	109	99	118	115	126	116	128	126	108	119
Ketchikan	73	71	78	79	77	76	72	70	78	78	81	76	74	72	75
Haines	69	66	73	74	82	78	77	75	70	74	73	71	71	59	72
Wasilla	44	45	56	62	71	80	73	88	81	75	89	79	72	64	70
Wrangell	61	62	65	62	72	66	71	68	72	68	65	64	70	66	67
Sitka	48	47	51	59	53	52	57	66	73	76	82	92	95	77	66
Ninilchik	53	56	50	50	51	46	43	43	44	43	45	46	40	37	46
Nikiski	48	51	52	49	44	44	41	42	45	39	39	43	39	34	44
Anchor Point	39	33	30	28	33	34	40	41	43	38	42	41	42	29	37
Clam Gulch	33	31	34	30	33	35	40	37	36	40	40	40	39	34	36
Valdez	36	36	39	34	30	37	38	39	37	34	34	28	31	26	34
Seward	39	38	31	29	31	34	32	34	35	29	29	26	25	22	31
Palmer	33	29	29	30	24	24	27	28	28	27	28	31	32	26	28
Seldovia	20	25	27	22	20	22	23	29	28	27	25	28	35	32	26
Douglas	22	21	24	27	27	29	21	27	29	22	18	19	18	17	23
Chugiak	21	26	25	22	21	21	26	19	22	19	20	17	17	11	21
Tyonek	21	20	21	18	17	20	18	17	19	18	18	20	18	16	19
Sterling	17	17	21	22	20	18	15	11	13	16	16	17	23	20	18

Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Average 2003-2016
Kodiak	15	15	20	18	20	20	23	23	16	13	17	13	16	13	17
Craig	11	12	13	13	13	14	13	16	15	15	18	18	21	20	15
Delta Junction	8	12	13	14	15	12	15	21	19	20	19	16	14	12	15
Nikolaevsk	7	8	8	6	9	10	15	16	17	21	26	20	20	16	14
Metlakatla	15	17	21	15	11	17	15	19	15	14	12	11	8	8	14
Willow	11	11	13	13	12	13	12	11	14	18	11	12	11	11	12
Auke Bay	10	11	13	12	9	10	10	12	11	8	8	8	7	5	10
Port Graham	15	16	14	10	9	8	8	6	5	7	7	8	5	5	9
Kake	10	11	14	11	10	7	8	7	9	7	7	7	9	5	9
Fairbanks	18	12	9	8	8	10	8	5	8	8	5	4	4	6	8
Big Lake	9	8	8	8	7	11	8	10	8	9	7	7	6	6	8
Hoonah	8	7	6	6	7	8	7	7	10	8	9	10	7	7	8
Nanwalek	7	8	7	8	8	8	8	9	8	7	7	7	7	7	8
Klawock	5	6	5	5	6	7	8	6	7	7	7	8	8	6	7
Point Baker	7	7	7	6	6	6	6	6	6	6	7	7	7	7	7
Halibut Cove	5	5	6	5	6	4	5	7	7	7	8	8	8	8	6
Trapper Creek	8	7	5	4	4	5	4	5	8	6	6	6	7	6	6
Fritz Creek	2	3	5	3	4	4	4	6	5	8	8	9	9	7	6
Ward Cove	6	5	4	5	5	4	5	4	6	6	3	7	7	5	5
Hydaburg	3	3	4	4	6	7	9	7	5	5	4	4	4	5	5
Talkeetna	3	3	3	5	6	5	4	4	4	5	4	5	5	5	4
Pelican	0	1	2	2	4	4	4	5	4	4	3	3	4	3	3
Sutton	1	1	1	1	3	2	2	3	4	4	4	3	3	3	3
Whittier	6	0	0	0	2	2	2	3	3	3	4	3	4	3	3
Skagway	2	2	2	2	1	1	3	3	3	3	3	3	3	3	2
Circle City	1	2	2	2	2	2	2	3	2	2	3	3	2	1	2
Gustavus	1	2	1	1	2	3	3	2	4	3	1	1	1	1	2
Tatitlek	4	3	4	3	3	3	3	1	1	1	0	0	0	0	2
Thorne Bay	2	2	3	3	2	2	2	2	2	1	1	1	1	1	2



Geography	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Average 2003-2016
Adak	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
Bird Creek	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Old Harbor	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
Salcha	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aniak	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Port Lions	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Tok	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0

Source: CFEC 2016 (CFEC 2016)

## GOA Chinook Salmon Subsistence and Personal Use Harvests by Area Tables

**Table 54. Estimated Subsistence and Personal Use Chinook Salmon Harvests for GOA Areas, 2003-2013 (number)**

Geography	Measurement	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Average 2003-2013 (available years)
Port Graham and Koyuktolik (subsistence)	Returned Households/ Permits	52	80	68	53	24*	48	44	35*	53	8	14	44
	Chinook Harvest	465	312	292	275	92	124	44	30	53	24	17	157
	All Salmon Harvest	9,109	6,953	5,399	6,461	761	8,875	5,123	4,470	10,389	1,912	8,897	6,214
Seldovia (subsistence)	Returned Households/ Permits	15	12	16	11	15	9	17	12	4	7	8	11
	Chinook Harvest	117	102	53	23	24	4	15	3	0	8	3	32
	All Salmon Harvest	496	258	251	66	239	177	242	312	114	141	234	230
Cook Inlet  Tyonek (subsistence)	Returned Households/ Permits	74	75	66	55	67	77	69	77	63	69	48	67
	Chinook Harvest	1,183	1,345	982	943	1,281	1,178	636	843	595	840	813	967
	All Salmon Harvest	1,355	1,568	1,184	978	1,609	1,515	1,081	1,226	789	1,160	1,185	1,241
Upper Yentna River (subsistence and personal)	Returned Households/ Permits	15	19	17	22	22	16	17	32	25	21	19	20
	Chinook Harvest	0	0	0	0	0	0	0	0	0	0	0	0
	All Salmon Harvest	630	625	268	583	468	397	273	749	1,046	343	412	527
Kenai and Kasilof Rivers (subsistence)	Returned Households/ Permits	--	--	--	--	131	151	138	151	123	121	138	136

Geography	Measurement	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Average 2003-2013 (available years)
	Chinook Harvest	--	--	--	--	0	2	0	0	0	0	0	0
	All Salmon Harvest	--	--	--	--	747	1,730	1,113	943	1,090	1,438	1,519	1,226
	Returned Households/ Permits	15,726	17,748	19,081	16,532	20,312	20,259	25,029	25,222	27,193	27,080	26,772	21,905
Upper Cook Inlet** (personal)	Chinook Harvest	1,711	1,098	1,132	1,405	1,924	1,601	1,384	1,059	1,453	167	84	1,183
	All Salmon Harvest	305,245	358,160	377,271	234,391	364,334	336,040	470,655	531,291	644,497	640,757	464,995	429,785
	Returned Households/ Permits	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kasilof River Setnet (personal)	Chinook Harvest	400	163	87	287	343	151	127	136	167	103	46	183
	All Salmon Harvest	16,226	25,644	27,039	29,591	15,356	23,706	26,963	22,107	27,020	15,970	14,622	22,204
	Returned Households/ Permits	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kasilof River Dipnet (personal)	Chinook Harvest	57	44	16	55	35	46	34	31	24	16	18	34
	All Salmon Harvest	44,835	49,513	44,465	58,353	44,334	55,536	75,957	73,826	51,563	75,648	88,234	60,206
	Returned Households/ Permits	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kenai River Dipnet (personal)	Chinook Harvest	1,016	792	997	1,034	1,509	1,362	1,189	865	1,243	40	11	914
	All Salmon Harvest	227,824	268,774	301,132	142,577	297,301	249,215	349,350	397,450	548,582	535,235	354,728	333,833
	Returned Households/ Permits	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish Creek Dipnet (personal)	Returned Households/ Permits	--	--	--	--	--	--	NA	NA	NA	--	--	NA

Geography	Measurement	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Average 2003-2013 (available years)
	Chinook Harvest	--	--	--	--	--	--	10	12	2	--	--	8
	All Salmon Harvest	--	--	--	--	--	--	10,060	29,304	6,370	--	--	15,245
	Returned Households/ Permits	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Unknown Cook Inlet (personal)	Chinook Harvest	238	99	32	29	37	41	25	15	17	8	9	50
	All Salmon Harvest	16,360	14,227	4,635	3,870	6,861	7,467	8,327	8,604	10,962	13,904	7,411	9,330
	Returned Households/ Permits	--	--	--	--	--	20	11	14	12	7	8	12
Beluga River Dipnet (senior personal)	Chinook Harvest	--	--	--	--	--	0	0	0	0	0	0	0
	All Salmon Harvest	--	--	--	--	--	66	225	53	159	16	88	101
	Returned Households/ Permits	96	83	96	82	133	142	142	122	112	95	118	111
Kachemak Bay Setnet (subsistence and personal)	Chinook Harvest	17	7	8	15	10	2	9	14	15	5	9	10
	All Salmon Harvest	1,324	1,805	1,207	1,577	2,229	2,639	1,033	1,306	1,194	1,894	2,001	1,655
	Returned Households/ Permits	1,101	1,032	1,070	1,100	1,277	1,269	1,138	1,331	1,328	1,557	1,400	1,237
Prince William Sound	Chinook Harvest	3,344	4,503	2,785	3,233	4,125	3,417	3,341	2,653	3,649	2,649	2,663	3,306
	All Salmon Harvest	68,612	87,557	94,752	81,743	91,110	63,404	71,515	95,706	85,996	98,110	99,390	85,263
	Returned Households/ Permits	5,438	6,855	6,768	6,762	7,187	6,861	6,908	7,757	7,566	8,030	8,482	7,147



Geography	Measurement	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Average 2003-2013 (available years)
	Chinook Harvest	1,962	2,521	2,155	2,598	2,782	1,991	229	700	1,118	613	762	1,585
	All Salmon Harvest	89,332	116,476	133,546	133,410	135,990	87,699	95,662	142,680	141,073	138,465	187,614	127,450
	Returned Households/ Permits	71	83	64	62	86	65	34	38	42	80	85	65
Federal Chitina (subsistence)	Chinook Harvest	33	9	27	16	29	26	15	36	21	5	20	22
	All Salmon Harvest	1,500	1,668	1,526	1,723	1,165	1,062	1,560	5,476	3,125	996	2,428	2,021
	Returned Households/ Permits	1	1	0	0	0	0	0	3	3	3	3	1
Batzulnetas (subsistence)	Chinook Harvest	0	0	0	0	0	0	0	0	0	1	5	1
	All Salmon Harvest	164	182	0	0	0	0	0	106	101	137	867	142
	Returned Households/ Permits	367	487	224	399	445	482	293	320	263	359	497	376
Copper River (subsistence)	Chinook Harvest	730	1,163	260	779	1,211	495	232	281	220	248	916	594
	All Salmon Harvest	2,439	3,129	1,106	5,135	7,694	4,732	2,173	2,365	2,096	4,767	7,010	3,877
	Returned Households/ Permits	8	12	3	1	0	1	4	5	4	8	11	5
Prince William Sound Eastern (subsistence)	Chinook Harvest	0	2	0	0	--	0	0	0	0	15	0	2
	All Salmon Harvest	298	998	600	81	--	60	301	367	1,480	1,052	1,019	626
	Returned Households/ Permits	7	5	8	6	3	3	4	5	6	14	4	6
Prince William Sound	Returned Households/ Permits	7	5	8	6	3	3	4	5	6	14	4	6

Geography		Measurement	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Average 2003-2013 (available years)
Southwestern (subsistence)	Chinook Harvest	6	3	10	0	2	4	2	0	2	0	0	0	3
	All Salmon Harvest	677	722	907	299	381	276	285	148	272	700	82	432	
Prince William Sound General	Returned Households/ Permits	11	7	13	9	3	10	1	1	4	12	8	7	
	Chinook Harvest	0	0	0	0	0	1	0	0	29	0	0	3	
	All Salmon Harvest	51	17	4	50	30	34	0	0	85	99	36	37	
Southeast (subsistence and personal)	Returned Households/ Permits	2,924	3,235	2,772	2,809	1,622	2,820	3,097	1,829	2,918	2,983	3,170	2,744	
	Chinook Harvest	1,543	1,583	887	1,356	1,199	1,052	1,208	1,828	916	816	983	1,216	
	All Salmon Harvest	79,434	71,763	49,655	63,425	49,737	49,472	59,627	62,571	52,350	59,938	59,343	59,756	
Southeast	Issued Households/ Permits***	--	40	35	48	44	50	80	107	129	130	124	79	
	Chinook Harvest	--	12	15	37	36	25	31	61	66	53	101	44	
	All Salmon Harvest	--	288	411	491	373	525	887	1,946	2,110	1,546	2,185	1,076	
All Areas	Returned Households/ Permits	34,918	38,754	37,690	35,172	38,296	39,183	44,407	44,961	47,420	48,505	49,090	41,672	
	Chinook Harvest	168,321	177,521	156,798	144,078	159,747	177,761	142,956	135,078	131,318	75,211	84,617	141,219	
	All Salmon Harvest	1,310,489	1,426,657	1,431,042	1,293,419	1,373,171	1,394,654	1,351,098	1,517,424	1,633,650	1,728,815	1,569,044	1,457,224	

Source: ADFG 2015 (ADFG 2015)



Geography		Measurement	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Average 2003-2013 (available years)
		%												
		All Salmon Harvest	1.2	1.8	1.9	2.3	1.1	1.7	2.0	1.5	1.7	0.9	0.9	1.5
Kasilof River Dipnet (personal)		Returned Households/ Permits	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Chinook Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		All Salmon Harvest	3.4	3.5	3.1	4.5	3.2	4.0	5.6	4.9	3.2	4.4	5.6	4.1
Kenai River Dipnet (personal)		Returned Households/ Permits	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Chinook Harvest	0.6	0.4	0.6	0.7	0.9	0.8	0.8	0.6	0.9	0.1	0.0	0.6
		All Salmon Harvest	17.4	18.8	21.0	11.0	21.7	17.9	25.9	26.2	33.6	31.0	22.6	22.9
Fish Creek Dipnet (personal)		Returned Households/ Permits	--	--	--	--	--	--	NA	NA	NA	--	--	NA
		Chinook Harvest	--	--	--	--	--	--	0.0	0.0	0.0	--	--	0.0
		All Salmon Harvest	--	--	--	--	--	--	0.7	1.9	0.4	--	--	1.0
Unknown Cook Inlet (personal)		Returned Households/ Permits	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Chinook Harvest	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		All Salmon Harvest	1.2	1.0	0.3	0.3	0.5	0.5	0.6	0.6	0.7	0.8	0.5	0.6
Beluga River Dipnet (senior personal)		Returned Households/ Permits	--	--	--	--	--	0.1	0.0	0.0	0.0	0.0	0.0	0.0
		Chinook Harvest	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		All Salmon Harvest	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kachemak Bay Setnet (subsistence and personal)		Returned Households/ Permits	0.3	0.2	0.3	0.2	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.3
		Chinook Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		All Salmon Harvest	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
Prince William Sound	Glennallen (subsistence)	Returned Households/ Permits	3.2	2.7	2.8	3.1	3.3	3.2	2.6	3.0	2.8	3.2	2.9	3.0
		Chinook Harvest	2.0	2.5	1.8	2.2	2.6	1.9	2.3	2.0	2.8	3.5	3.1	2.3



Geography		Measurement	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Average 2003-2013 (available years)
		All Salmon Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Southeast	Southeast (subsistence and personal)	Returned Households/ Permits	8.4	8.3	7.4	8.0	4.2	7.2	7.0	4.1	6.2	6.1	6.5	6.6
		Chinook Harvest	0.9	0.9	0.6	0.9	0.8	0.6	0.8	1.4	0.7	1.1	1.2	0.9
		All Salmon Harvest	6.1	5.0	3.5	4.9	3.6	3.5	4.4	4.1	3.2	3.5	3.8	4.1
	Stikine Federal (subsistence)	Issued Households/ Permits***	--	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.2
		Chinook Harvest	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
		All Salmon Harvest	--	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
All Areas	Alaska Total	Returned Households/ Permits	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		Chinook Harvest	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
		All Salmon Harvest	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: NOAA 2016 (NOAA 2016)

**Table 56. Estimated Proportion of Chinook Salmon Subsistence/Personal Use Harvests Compared to All Subsistence/Personal Use Harvested Salmon for GOA Areas, 2003-2013 (percentage)**

Geography		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Average 2003-2013 (available years)	
		%												
Cook Inlet	Port Graham and Koyuktolik (subsistence)	5.1	4.5	5.4	4.3	12.1	1.4	0.9	0.7	0.5	1.3	0.2	2.5	
	Seldovia (subsistence)	23.6	39.5	21.1	34.8	10.0	2.3	6.2	1.0	0.0	5.7	1.3	13.9	
	Tyonek (subsistence)	87.3	85.8	82.9	96.4	79.6	77.8	58.8	68.8	75.4	72.4	68.6	77.9	
	Upper Yentna River (subsistence and personal)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Kenai and Kasilof Rivers (subsistence)	--	--	--	--	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	Upper Cook Inlet** (personal)	0.6	0.3	0.3	0.6	0.5	0.5	0.3	0.2	0.2	0.0	0.0	0.3	
	Kasilof River Setnet (personal)	2.5	0.6	0.3	1.0	2.2	0.6	0.5	0.6	0.6	0.6	0.6	0.3	0.8
	Kasilof River Dipnet (personal)	0.1	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
	Kenai River Dipnet (personal)	0.4	0.3	0.3	0.7	0.5	0.5	0.3	0.2	0.2	0.0	0.0	0.0	0.3
	Fish Creek Dipnet (personal)	--	--	--	--	--	--	0.1	0.0	0.0	--	--	0.1	
	Unknown Cook Inlet (personal)	1.5	0.7	0.7	0.7	0.5	0.5	0.3	0.2	0.2	0.1	0.1	0.5	
	Beluga River Dipnet (senior personal)	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	Kachemak Bay Setnet (subsistence and personal)	1.3	0.4	0.7	1.0	0.4	0.1	0.9	1.1	1.3	0.3	0.4	0.6	
	Prince William Sound	Glennallen (subsistence)	4.9	5.1	2.9	4.0	4.5	5.4	4.7	2.8	4.2	2.7	2.7	3.9
Chitina (subsistence and personal)		2.2	2.2	1.6	1.9	2.0	2.3	0.2	0.5	0.8	0.4	0.4	1.2	
Federal Chitina (subsistence)		2.2	0.5	1.8	0.9	2.5	2.4	1.0	0.7	0.7	0.5	0.8	1.1	
Batzulnetas (subsistence)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.6	0.4	
Copper River (subsistence)		29.9	37.2	23.5	15.2	15.7	10.5	10.7	11.9	10.5	5.2	13.1	15.3	
Prince William Sound Eastern (subsistence)		0.0	0.2	0.0	0.0	--	0.0	0.0	0.0	0.0	1.4	0.0	0.3	
Prince William Sound Southwestern (subsistence)		0.9	0.4	1.1	0.0	0.5	1.4	0.7	0.0	0.7	0.0	0.0	0.6	
Prince William Sound General		0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	34.1	0.0	0.0	7.4	
Southeast	Southeast (subsistence and personal)	1.9	2.2	1.8	2.1	2.4	2.1	2.0	2.9	1.7	1.4	1.7	2.0	
	Stikine Federal (subsistence)	--	4.2	3.6	7.5	9.7	4.8	3.5	3.1	3.1	3.4	4.6	4.1	
<b>All Areas</b>	<b>Alaska Total</b>	<b>12.8</b>	<b>12.4</b>	<b>11.0</b>	<b>11.1</b>	<b>11.6</b>	<b>12.7</b>	<b>10.6</b>	<b>8.9</b>	<b>8.0</b>	<b>4.4</b>	<b>5.4</b>	<b>9.7</b>	

Source: NOAA 2016 (NOAA 2016)