

## **Chevak (CHEE-vack)**



### **People and Place**

#### *Location*<sup>1</sup>

Chevak is located on the north bank of the Niglikfak River in the Yukon-Kuskokwim (Y-K) Delta, 17 mi east of Hooper Bay and 519 mi west of Anchorage. The area encompasses 1.1 sq mi of land and 0.1 sq mi of water. The community was incorporated as a Second-class city in 1967, is located in the Wade-Hampton Census Area, and is not under the jurisdiction of a borough.

#### *Demographic Profile*<sup>2</sup>

In 2010, there were 938 residents ranking Chevak 69<sup>th</sup> of 352 Alaskan communities in terms of population size. Between 1990 and 2010, the population grew by 56.9%. Between 2000 and 2009 the population grew by 23.5% with an average annual growth rate of 1.59%; which was greater than the statewide average of 0.75% and indicative of an expansive population trend.

In a survey conducted by NOAA's Alaska Fisheries Science Center (AFSC) in 2011, community leaders estimated that there were over 960 permanent residents living in the community in 2010. Peaks in population can occur at any time of year, but are typically dependant on local construction projects and students returning from school. Peaks in the number of seasonal and transient workers are not thought to be associated with fishery sectors. Information regarding population trends can be found in Table 1.

Chevak is predominately a Cup'ik Eskimo community<sup>3</sup> with 94.9% of the residents identifying themselves as American Indian or Alaska Native in 2010, compared to 90.5% in 2000. Also in that year, 2.3% of the population identified themselves as White, compared to 3.7% in 2000; 2.5% identified themselves as two or more races, compared to 5.8% in 2000; 0.3% identified themselves as Asian, compared to 0.0% in 2000; and 0.1% identified themselves as some other race, compared to 0.1% in 2000. In addition, 0.1% of residents identified themselves as Hispanic or Latino in 2010, compared to 0.7% in 2000.

In 2010, the average household size was 4.49, compared to 4.0 in 1990 and 4.58 in 2000. The total number of household units that year was 219, compared to 164 in 1990 and 190 in 2000. Of the households surveyed in 2010, 72.6% were owner-occupied, compared to 64.2% in 2000; 22.8% were renter-occupied, compared to 23.7% in 2000; 3.2% were vacant, compared to 7.9% in 2000; and 1.4% were occupied seasonally, compared to 4.2% in 2000. There have been no reports of residents living in group quarters since 1990.

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<sup>1</sup> Alaska Department of Community and Rural Affairs. (n.d.). *Community Database Online*. Retrieved October 17, 2011 from [http://www.commerce.state.ak.us/dca/commdb/CF\\_BLOCK.htm](http://www.commerce.state.ak.us/dca/commdb/CF_BLOCK.htm).

<sup>2</sup> U.S. Census Bureau (n.d.). *Profile of selected social, economic and housing characteristics of all places within Alaska*. Datasets utilized include the 2000 (SF1 100% and SF3 sample data) and 2010 (Demographic Profile SF) Decennial Census and the 2010 American Community Survey 5-year estimates. Retrieved November 1, 2011 from <http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>.

<sup>3</sup> See footnote 1.

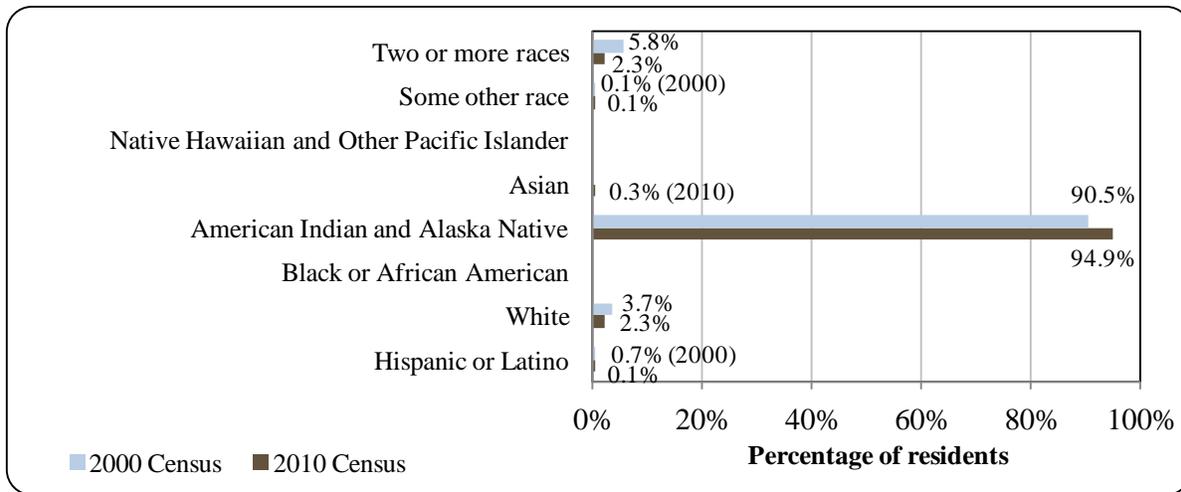
Table 1. Population in Chevak from 1990 to 2010 by Source.

Year	U.S. Decennial Census <sup>1</sup>	Alaska Department of Labor Estimate of Permanent Residents <sup>2</sup>
1990	598	-
2000	765	-
2001	-	833
2002	-	854
2003	-	883
2004	-	903
2005	-	916
2006	-	914
2007	-	939
2008	-	920
2009	-	945
2010	938	-

<sup>1</sup> (1) U.S. Census Bureau (1990). *CP-1: General Population Characteristics of all places within Alaska*. Retrieved November 1, 2011 from <http://www.census.gov/prod/www/abs/decennial/1990.html>. (2) U.S. Census Bureau (n.d.). *Profile of selected social, economic and housing characteristics of all places within Alaska*. Datasets utilized include the 2000 (SF1 100% and SF3 sample data) and 2010 (Demographic Profile SF) Decennial Census and the 2010 American Community Survey 5-year estimates. Retrieved November 1, 2011 from <http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>.

<sup>2</sup> Alaska Department of Labor. (2011). *Current population estimates for Alaskan Communities*. Retrieved April 15, 2011, from <http://labor.alaska.gov/research/pop/popest.htm>.

Figure 1. Racial and Ethnic Composition, Chevak: 2000-2010 (U.S. Census).



Gender distribution in 2010 was slightly skewed towards males at 54.1% male and 45.9% female. This was slightly less even than the distribution statewide (52.0% male, 48.0% female), and similar to the distribution in 2000 (53.2% male, 46.8% female). The median age that year was 21.2 years, which was lower than the statewide median of 33.8 years higher than the 2000 median of 17.4 years.

Compared with 2000, the population structure in 2010 was less expansive. In addition, many cohorts displayed characteristics consistent with a stable population, meaning that as they aged, they maintained their overall structure. However, there was some attrition in younger cohorts, most notably the 10-19 range. In 2010, 47.0% of residents were under the age of 20, compared to 54.7% in 2000; 4.3% were of the age of 59, compared to 5.4% in 2000; 29.2% were between the ages of 30 and 59, compared to 28.3% in 2000; and 18.5% were between the ages of 20 and 29, compared to 11.7% in 2000.

Gender distribution by age cohort was less even in 2010 than in 2000, with male biases among most age ranges. In that year, the greatest absolute gender difference occurred in the 50 to 59 range (6.3% male, 3.0% female), followed by the 30 to 39 (6.1% male, 3.9% female) and 10 to 19 (12.1% male, 10.2% female) ranges. Of those three, the greatest relative gender difference occurred in the 50 to 59 range. Information regarding trends in Chevak's population structure can be found in Figure 2.

In terms of educational attainment, the U.S. Census' 2006-2010 American Community Survey (ACS)<sup>4</sup> estimated that 76.5% of residents aged 25 years and over held a high school diploma or higher degree in 2010, compared to an estimated 90.7% of Alaska residents overall. Also in 2010, an estimated 11% of residents had less than a ninth grade education, compared to an estimated 3.5% of Alaska residents overall; an estimated 12.4% had a ninth to twelfth grade education but not diploma, compared to an estimated 5.8% of Alaska residents overall; an estimated 17.7% had some college but no degree, compared to an estimated 28.3% of Alaska residents overall; an estimated 1.9% had an Associate's degree, compared to an estimated 8% of Alaska residents overall; an estimated 5.2% had a Bachelor's degree, compared to an estimated 17.4% of Alaska residents overall; and no residents were estimated to have a graduate or professional degree, compared to an estimated 9.6% of Alaska residents overall.

### *History, Traditional Knowledge, and Culture*<sup>5,6</sup>

Eskimos have inhabited the Y-K Delta region for thousands of years. The original site, *Nunarururmiut*, was abandoned in the 1940s as a result of flooding and the need to establish a U.S. Bureau of Indian Affairs school. The name Chevak refers to "a connecting slough", on which Nunarururmiut was situated. The new site was first reported by the U.S. Coast and Geodetic Survey in 1948. A post office was established in 1951 and the city government was incorporated in 1967. Today, residents of Chevak continue to rely on the traditional subsistence practices characteristic of the region.

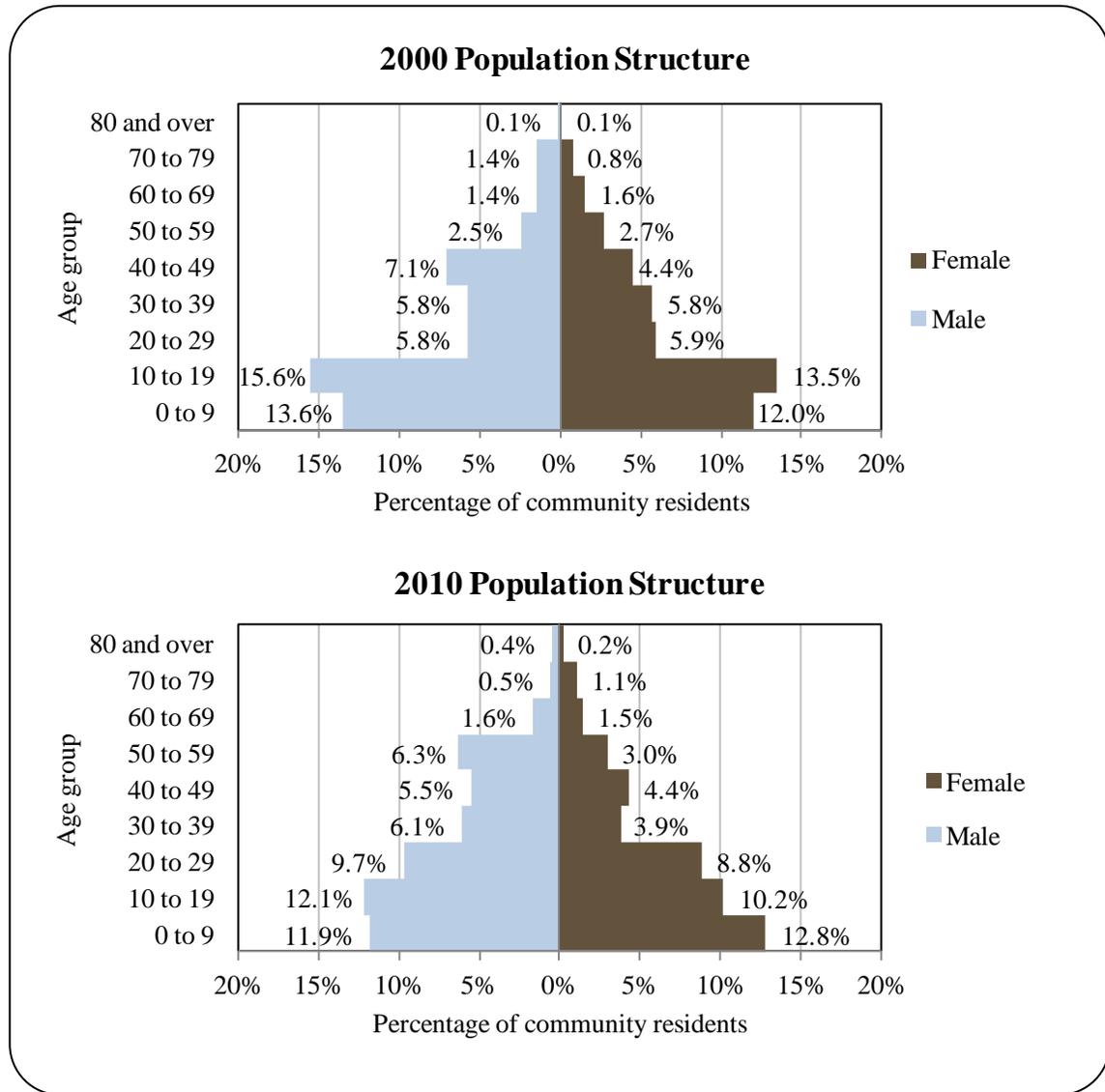
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<sup>4</sup> While American Community Survey (ACS) estimates can provide a good snapshot estimate for larger populations, smaller populations can be misrepresented by ACS estimates if demographic information is not collected from a representative sample of the population. This is especially problematic for Alaskan communities with small populations that have a low probability of being adequately sampled.

<sup>5</sup> See footnote 1.

<sup>6</sup> Chevak Planning Committee. (2009). *Chevak Community Plan*. Retrieved January 19, 2012 from: <http://www.commerce.state.ak.us/dca/plans/Chevak-CP-2009.pdf>.

Figure 2. Population Age Structure in Chevak Based on the 2000 and 2010 U.S. Decennial Census.



## Natural Resources and Environment

Chevak lies within the transitional zone between maritime and continental climates, experiencing maritime influences in the summer and continental in the winter when ice forms over the Bering Sea. Temperatures range from -25 to 79 °F, with a July average of 52 °F and a January average of 10 °F. Snowfall averages 70 inches per year and annual precipitation is 20 inches. Freeze-up occurs in October with break-up in June.<sup>7</sup>

Chevak is located in the Yukon Delta National Wildlife Refuge (YDNWR). Lowlands consist of wet tundra and marshes, coastal floodplains, shallow circular and oxbow lakes, rivers,

<sup>7</sup> Ibid.

and sloughs. Upland areas are populated with dwarf shrubs and sedges and very few trees are present, except for the occasional willow or birch stand. Soils in these areas consist of deposited silty and sandy loams on coastal floodplains, and peat tundra. A layer of continuous permafrost underlies areas not adjacent to water. There is an active permafrost layer 18 inches deep that is subject to melt and saturation as it thaws. The village itself is located on a bluff about 30 ft above the Niglikfak River.

The YDNWR region provides spawning, rearing, feeding, and wintering habitat for a range of terrestrial and aquatic wildlife.<sup>8</sup> Terrestrial wildlife include: waterfowl and gamebirds, moose, wolf, wolverine, bear, mink, beaver, muskrat, otter, fox, beaver, muskrat, muskox, hares, voles, ermines, squirrels, lemmings, shrews, and weasels. Aquatic resources include: Pacific salmon, whitefish, burbot, northern pike, blackfish, smelt, lamprey, char, grayling, trout, sculpin, stickleback, and longnose sucker.<sup>9</sup>

In terms of local environmental hazards, Chevak's location inland protects it from coastal hazards, while its location on a bluff next to the Ninglikfak River protects it from flooding. Ground saturation resulting from permafrost thaw does threaten local structures, and as a result buildings and water lines are elevated to reduce sinking. Riverbank erosion is another threat due to the community's location on an oxbow curve in the river. Chain and sandbag reinforcements have been installed in order to mitigate impacts. The Army Corps of Engineers lists the flooding potential of the village as low, and the United States Geological Survey registers Chevak within Seismic Risk Zone 2 indicating a low risk of earthquakes.<sup>10</sup>

According to the Alaska Department of Environmental Conservation, there were no significant environmental remediation sites active in 2010.<sup>11</sup>

## Current Economy<sup>12</sup>

The local economy in Chevak is similar to other communities in the region, with an emphasis on subsistence and economic self-sufficiency. In a survey conducted by the AFSC in 2011, community leaders reported that Chevak's economy is dependent on the commercial halibut industry and the CVRF, which is the community's Community Development Quota (CDQ) entity. Top employers<sup>13</sup> in 2010 included: the Kashunamiut School District, AVCP Housing Authority, Chevak City Council, Chevak Company Store, Coastal Villages Seafoods Inc., Rural AK Community Action Program, Chevak Traditional Council, Our Cache, Yukon Kuskokwim Health Corporation, and Coastal Villages Region Fund (CVRF).

In 2010,<sup>14</sup> the estimated per capita income in Chevak was \$7,990 and the estimated median household income was \$31,563, compared to \$7,550 and \$26,875 in 2000, respectively.

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<sup>8</sup> U.S. Fish and Wildlife Service. (n.d.). *Yukon Delta National Wildlife Refuge*. Retrieved November 22, 2011 from: <http://www.fws.gov/refuges/profiles/recEdMore.cfm?ID=74540>.

<sup>9</sup> Ibid.

<sup>10</sup> See footnote 6.

<sup>11</sup> Alaska Department of Environmental Conservation. (n.d.). *Contaminated Sites Program*. Retrieved June 22, from: <http://dec.alaska.gov/spar/csp/list.htm#Western>.

<sup>12</sup> Unless otherwise noted, all monetary data are reported in nominal values.

<sup>13</sup> Alaska Department of Labor and Workforce Development (n.d.). Alaska Local and Regional Information Database. Retrieved April 23, 2012 from <http://live.laborstats.alaska.gov/alari/>.

<sup>14</sup> U.S. Census Bureau (n.d.). *Profile of selected social, economic and housing characteristics of all places within Alaska*. Datasets utilized include the 2010 American Community Survey 5-year estimates. Retrieved November 1, 2011 from <http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>.

However, after accounting for inflation by converting the 2000 values to 2010 dollars,<sup>15</sup> the real per capita income (\$9,928) and real median household income (\$35,340) indicate an overall decline in both individual and household earnings. In 2010, Chevak ranked 295<sup>th</sup> of 305 Alaskan communities from which per capita income was estimated, and 238<sup>th</sup> of 299 communities from which median household income was estimated; ranking the community among the lowest statewide in terms of individual income.

Chevak's small population size may have prevented the ACS from accurately portraying economic conditions.<sup>16</sup> Another way understanding of per capita income is obtained through economic data compiled by the Alaska Local and Regional Information (ALARI) database maintained by the Alaska Department of Labor and Workforce Development (DOLWD). According to the ALARI database, residents earned \$6.48 million in total wages in 2010.<sup>17</sup> When matched with the population in 2010 per capita income equals \$6,903, suggesting that caution should be used when comparing 2010 ACS estimates with 2000 Census figures.<sup>18</sup> In addition, the community was recognized as "distressed" by the Denali Commission indicating that over 70% of residents aged 16 and older earned less than \$16,120 in 2010.<sup>19</sup> However, it should be noted that ACS and DOLWD data are based on wage earnings and do not take into account the value of subsistence within the local economy.

According to the 2006-2010 ACS estimates,<sup>20</sup> 64.4% of residents aged 16 years and older were part of the civilian labor force in 2010. that year, unemployment was estimated at 20.6%, compared to an estimated 5.9% statewide; and 46.8% of residents lived below the poverty line, compared to an estimated 9.5% of Alaska residents overall. It is possible that ACS unemployment estimates are inaccurate due to Chevak's small population size. The ALARI database estimated that in 2010, unemployment was 26.3% based on unemployment claimants.

Of those employed in 2010, an estimated 43.1% worked in the private sector, and estimated 55.7% worked in the public sector, and an estimated 1.2% were self-employed. By industry, most (37.8%) employed residents were estimated to work in education services in 2010, health care, and social assistance sectors; followed by public administration sectors (15.9%); transportation, warehousing, and utilities sectors (12.2%); and retail trade sectors (12.2%). By occupation type, most (33.7%) employed residents were estimated to hold management or professional positions that year; followed by service positions (24.4%); sales or office positions (22.8%); production, transportation, or material moving positions (10.6%); and natural resources, construction, or maintenance positions (8.5%). Overall, there was little variation in employment by industry sector and occupation type between 2000 and 2010. No individuals characterized themselves as working in natural resource based occupations or industries that include fishing. However, given the data reported in the *Commercial Fishing* section below, the number of

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<sup>15</sup> Inflation was calculated using the Anchorage Consumer Price Index for 2000 and 2010 (retrieved January 5, 2012 from the Alaska Department of Labor, <http://labor.alaska.gov/research/cpi/inflationcalc.htm>).

<sup>16</sup> While American Community Survey (ACS) estimates can provide a good snapshot estimate for larger populations, smaller populations can be misrepresented by ACS estimates if demographic information is not collected from a representative sample of the population. This is especially problematic for Alaskan communities with small populations that have a low probability of being adequately sampled.

<sup>17</sup> ALARI estimates based on wages reported for unemployment insurance purposes. Estimates do not include self-employed or federally employed residents.

<sup>18</sup> See footnote 13.

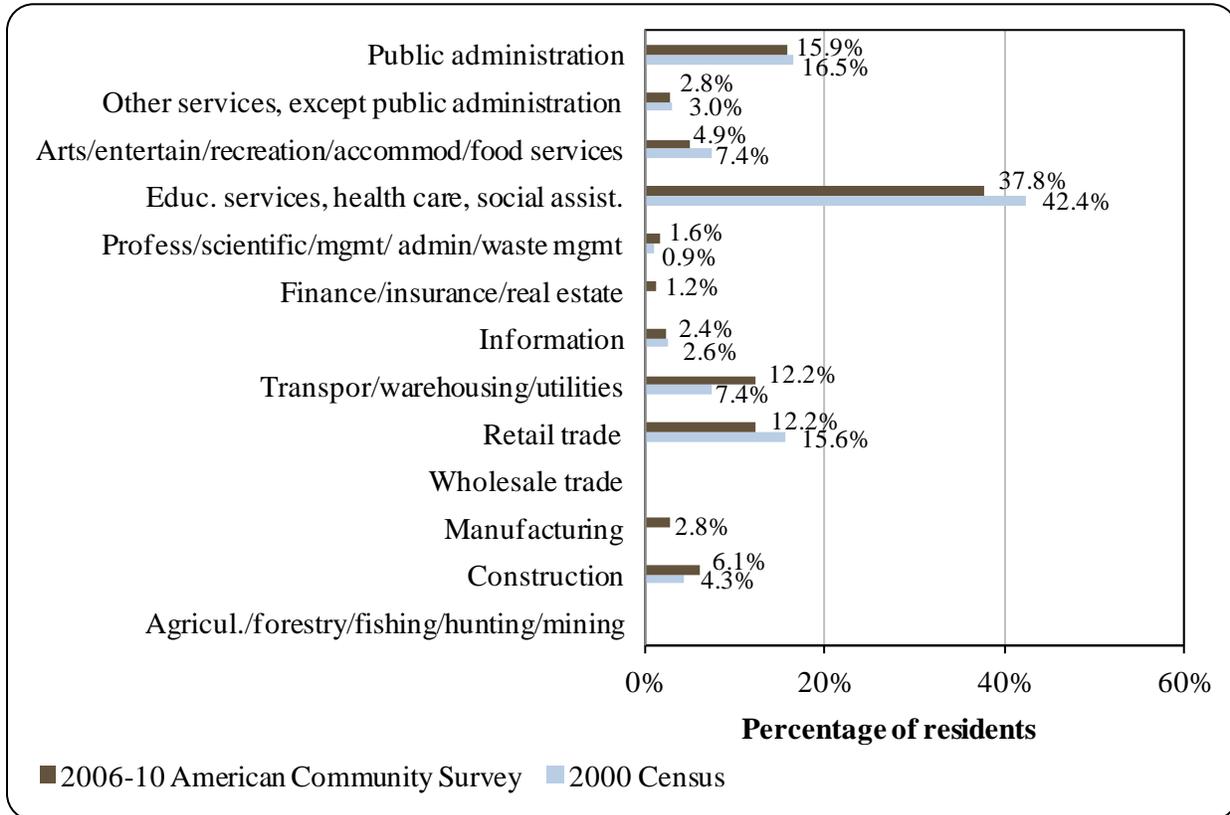
<sup>19</sup> Denali Commission. (2011). Distressed Community Criteria 2011 Update. Retrieved April 16, 2012 from: [www.denali.gov](http://www.denali.gov).

<sup>20</sup> See footnote 16.

individuals employed in the farming, fishing, and forestry industries may be underestimated by census statistics as fishermen may hold another job and characterize their employment accordingly. Information regarding employment trends can be found in Figures 3 and 4.

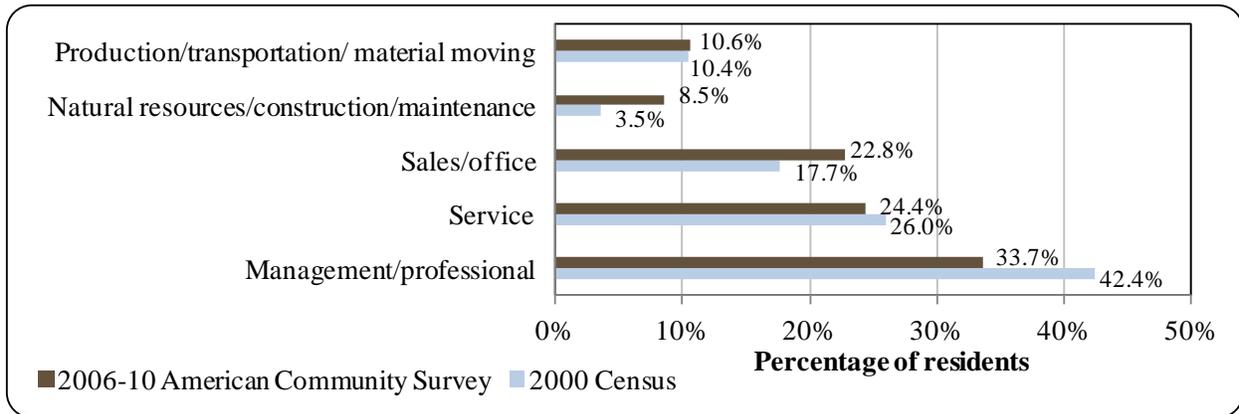
According to 2010 ALARI estimates,<sup>21</sup> most (46.3%) employed residents worked in local government sectors; followed by trade, transportation, and utilities sectors (18.0%); and financial service sectors (15.9%).

Figure 3. Local Employment by Industry in 2000-2010, Chevak (U.S. Census).



<sup>21</sup> See footnote 13.

Figure 4. Local Employment by Occupation in 2000-2010, Chevak (U.S. Census).



## Governance

Chevak is a Second-class city with a mayoral form of government. In addition, there is a federally recognized Tribal government (Chevak Traditional Council), and Alaska Native Claims Settlement Act (ANCSA) chartered Native village corporation (Chevak Company Corporation). The regional ANCSA chartered Native corporation representing Chevak is the Calista Corporation. The closest Alaska Department of Fish and Game (ADF&G) and National Marine Fisheries Service (NMFS) offices are located in Bethel, 138 mi southeast. The closest U.S. Bureau of Citizenship and Immigration Services office is located in Anchorage, 519 mi east.

In 2010, the community administered a 2.0% sales tax. When adjusted for inflation,<sup>22</sup> total municipal revenues declined by 40.8% between 2000 and 2010 from \$808,190, to \$619,185. Municipal revenues peaked in 2008 at \$1.56 million. Revenue peaks in 2007 and 2008 were largely attributed to significant enterprise revenues. In 2010, locally generated revenues were collected primarily from sales taxes, Alaska Village Electric Cooperative reimbursements, and health clinic leases. Outside revenues were collected primarily from Community Revenue Sharing and payments in lieu of taxes. In that year, sales tax revenues comprised 25.2% of total revenues, compared to 11.1% in 2000. In addition, state allocated Community Revenue Sharing comprised 23.1% of total revenues, compared to 3.4% from State Revenue Sharing in 2000. The community also received \$25,113 in state or federal fisheries-related grants for a dock and harbor upgrade project in 2003. Information regarding municipal finances can be found in Table 2.

<sup>22</sup> Inflation calculated using Anchorage CPI from Alaska DOL: <http://labor.alaska.gov/research/cpi/cpi.htm>.

Table 2. Selected Municipal, State, or Federal Revenue Streams for the Community of Chevak from 2000 to 2010.

Year	Total Municipal Revenue <sup>1</sup>	Sales Tax Revenue <sup>2</sup>	State/Community Revenue Sharing <sup>3,4</sup>	Fisheries-Related Grants (State and Federal) <sup>5</sup>
2000	\$808,190	\$89,352	\$27,615	n/a
2001	\$814,219	\$82,544	\$26,604	n/a
2002	\$793,188	\$83,266	\$27,000	n/a
2003	\$858,215	\$128,600	\$26,805	\$25,113
2004	\$543,693	\$95,246	-	n/a
2005	\$794,689	\$88,103	-	n/a
2006	\$507,101	\$65,290	-	n/a
2007	\$1,262,175	\$94,341	-	n/a
2008	\$1,555,721	\$123,326	-	n/a
2009	\$601,565	\$129,725	\$144,546	n/a
2010	\$619,185	\$155,991	\$143,035	n/a

Note: n/a indicates that no information was provided that year.

<sup>1</sup> Alaska Department of Community and Rural Affairs. (n.d.). *Financial Documents Delivery System*. Retrieved April 15, 2011 from

[http://www.commerce.state.ak.us/dcra/commfin/CF\\_FinRec.cfm](http://www.commerce.state.ak.us/dcra/commfin/CF_FinRec.cfm).

<sup>2</sup> Alaska Department of Community and Economic Development (n.d.). *Alaska Taxable (2000-2010)*. Retrieved April 15, 2011 from

[http://www.commerce.state.ak.us/dca/osa/osa\\_summary.cfm](http://www.commerce.state.ak.us/dca/osa/osa_summary.cfm).

<sup>3</sup> Alaska Department of Rev. (n.d.). *(2000-2009) Taxes and Fees Annual Report*. Retrieved April 15, 2011 from <https://www.tax.state.ak.us>.

<sup>4</sup> The State Revenue Sharing program ceased in 2003 and was replaced by the Community Revenue Sharing program starting in 2009.

<sup>5</sup> Alaska Department of Community and Rural Affairs. (n.d.). *Community Funding Database*. Retrieved April 15, 2011 from [http://www.commerce.state.ak.us/dca/commdb/CF\\_Grants.htm](http://www.commerce.state.ak.us/dca/commdb/CF_Grants.htm).

## Infrastructure

### *Connectivity and Transportation*<sup>23</sup>

Local transportation is done by small boat, small aircraft, ATV, or “snowmachine.” The community is connected by a system of sand and gravel roads, and wooden boardwalks. Trails in the area are utilized for subsistence activities, and winter trails connect to Hooper Bay (17 mi), Scammon Bay (25 mi), and Newtok (50 mi). The airport, completed in 2006, is owned and maintained by the State of Alaska. The airstrip is 2,500 ft long by 28 ft wide, and provides regional charter and private air access year-round. Seaplanes use a dock located below the former Wayne Hill Co. building, and primary air carriers servicing Chevak are Grant Air and Hageland Aviation. Roundtrip airfare between Anchorage and Chevak in June of 2012 was \$802.<sup>24</sup>

<sup>23</sup> Chevak Planning Committee. (2009). *Chevak Community Plan*. Retrieved January 19, 2012 from: <http://www.commerce.state.ak.us/dca/plans/Chevak-CP-2009.pdf>.

<sup>24</sup> Airfare was calculated using lowest fare. Source: <http://www.travelocity.com> (retrieved November 22, 2011).

### *Facilities*

Capital projects completed as of 2010 include an airport, school, landfill, water and sewer system, fishery support center, and multiple housing projects. Currently all homes and public buildings are connected to piped water and sewer systems. Facilities include a washeteria, watering point, treatment plant, 150,000 gallon water storage tank, sewage lagoon, and a vacuum sewer plant. Electricity is provided by diesel generator. A new power plant facility and wind generation project was completed by the Alaska Village Electric Corporation (AVEC) in 2009.<sup>25</sup>

In a survey conducted by the AFSC in 2011, community leaders reported that infrastructure projects completed or under development as of 2010 included additional roads, airport improvements, water and sewer system improvements, alternative energy, broadband internet access, emergency response systems, fire department improvements, school improvements, telephone service, and post office improvements. Projects planned for completion between 2010 and 2020 include a barge landing area, dock improvements, community center improvements, and additional emergency response improvements. There is no dock space available for permanent moorage, and 15 to 20 ft of dock space available for transient moorage. Regulated vessels that use local port facilities include fuel and small freight barges. Fisheries-related businesses and services located in the community include boat repair (electrical, welding, mechanical, and machine shop), fishing-related bookkeeping, boat fuel sales, fishing gear repair, fishing gear sales, and small boat haulout facilities.

### *Medical Services*<sup>26</sup>

The Chevak Clinic provides basic health care and is a Community Health Aid Program (CHAP) site. Acute, long-term, and specialized health care is provided in Bethel.

### *Educational Opportunities*<sup>27</sup>

Chevak School offers preschool through 12<sup>th</sup> grade instruction. As of 2011, there were 306 students enrolled and 32 teachers employed. In addition, there is a Rural Alaska Community Action Program (RurAL CAP) Head Start program which Chevak children attend before becoming students with the Kashunamiut School District.

## **Involvement in North Pacific Fisheries**

### *History and Evolution of Fisheries*

Chevak's involvement in North Pacific Fisheries is defined by its history of participation in subsistence fisheries as well as its more recent participation in commercial fisheries. Chevak is recognized as a rural community by the U.S. Fish and Wildlife Service (USFWS) and is allowed to harvest subsistence resources within the YDNWR. The community also has an active

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<sup>25</sup> See footnote 23.

<sup>26</sup> Alaska Department of Community and Rural Affairs. (n.d.). *Community Database Online*. Retrieved October 17, 2011 from [http://www.commerce.state.ak.us/dca/commdb/CF\\_BLOCK.htm](http://www.commerce.state.ak.us/dca/commdb/CF_BLOCK.htm).

<sup>27</sup> Alaska Department of Education and Early Development. (2012). *Statistics and Reports*. Retrieved April 24, 2012 from <http://eed.alaska.gov/stats/>.

commercial fishing economy and 26 residents held permits issued by the Commercial Fisheries Entry Commission (CFEC) in 2010. In addition, the community is eligible to participate in the CDQ program and is represented by the Coastal Villages Region Fund (CVRF), which is the regional CDQ non-profit. The CDQ program was implemented to help alleviate economic distress in rural communities in western Alaska by allocating a percentage of halibut, crab, and groundfish to six CDQ non-profit organizations representing 65 communities in the Bering Strait and Aleutian Islands region.<sup>28</sup> Managers of CDQ organizations authorize individual fishermen and fishing vessels to harvest a certain portion of the allocated CDQ.

In a survey conducted by the AFSC in 2011, community leaders reported that Chevak participates in the fisheries management process in Alaska through its membership with the CVRF. Chevak is located within Federal Reporting Area 541, International Pacific Halibut Commission Regulatory Area 4E, and the Bering Sea Sablefish Regulatory District.

### *Processing Plants*

According to the 2010 Alaska Department of Fish and Game's Intent to Operate list Chevak does not have a registered processing plant. The closest seafood processor is located in Hooper Bay.

### *Fisheries-Related Revenue*

Chevak received very little in fisheries-related revenue from taxes and fees between 2000 and 2010. In 2010, the community collected \$120 in Shared Fisheries Business Tax. In a survey conducted by the AFSC in 2011, community leaders reported that Chevak received \$40,000 from the CVRF in 2010. Information regarding known fisheries-related revenue trends can be found in Table 3.

It should be noted that a direct comparison between fisheries-related revenue and total municipal revenue cannot reliably be made as not all fisheries-related revenue sources are included in the municipal budget.

### *Commercial Fishing*

In a survey conducted by the AFSC in 2011, community leaders reported that the community participates mostly in longline halibut fisheries. In 2010, residents participated in statewide hand-troll and mechanical jig halibut fisheries.<sup>29</sup> In that year, 26 residents, or 2.8% of the population held 26 CFEC permits; compared to 21 and 22 in 2000, respectively. Of the CFEC permits issued in 2010, 77% were for herring, compared to 91% in 2000; 15% were for halibut, compared to 0% in 2000; and 8% were for salmon, compared to 9% in 2000. In addition, no residents held Federal Fisheries Permits (FFP) or License Limitation Program (LLP) permits

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<sup>28</sup> Fina, M. (2011). Evolution of Catch Share Management: Lessons from Catch Share Management in the North Pacific. *Fisheries*, Vol. 36(4). Retrieved September 12, 2012 from [http://www.fakr.noaa.gov/npfmc/PDFdocuments/catch\\_shares/Fina\\_CatchShare\\_411.pdf](http://www.fakr.noaa.gov/npfmc/PDFdocuments/catch_shares/Fina_CatchShare_411.pdf).

<sup>29</sup> Alaska Commercial Fisheries Entry Commission. (2011). Alaska commercial fishing permits, permit holders, and vessel licenses, 2000 – 2010. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. [URL not publicly available as some information is confidential.]

between 2000 and 2010. Finally, no residents held halibut, sablefish, or crab quota between 2010 and when the programs began.

The number of commercial crew licenses held by residents declined significantly between 2000 and 2001, from 25 to 1; and remained at low numbers throughout the decade. In addition, residents held majority ownership of seven vessels in 2010, compared to 14 in 2000. In that year, 8% of CFREC permits held were actively fished, compared to 45% in 2000. This varied by fishery from 50% of halibut permits, to 0% of herring and salmon permits. Herring permit activity dropped significantly after 2000, and permits for that species were not actively fished after 2004. Salmon permits were not actively fished after 2007.

No landings were made in Chevak between 2000 and 2010. Landings by residents in those years are considered confidential; with the exception of herring landings in 2000. In that year 178,918 lbs of herring were landed with an ex-vessel value of \$12,051, or \$16,571 after adjusting for inflation.<sup>30</sup> Information regarding commercial fishing trends can be found in Tables 4 through 10.

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<sup>30</sup> Inflation calculated using Producer Price Index for unprocessed and packaged fish, Bureau of Labor Statistics, <http://www.bls.gov/ppi/#data>.

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Table 3. Known Fisheries-Related Revenue (in U.S. Dollars) Received by the Community of Chevak: 2000-2010.

Revenue source	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Raw fish tax <sup>1</sup>	n/a	n/a	n/a	n/a	n/a						
Shared Fisheries Business Tax <sup>1</sup>	n/a	\$74	n/a	\$122	n/a	n/a	n/a	\$92	\$94	\$114	\$120
Fisheries Resource Landing Tax <sup>1</sup>	n/a	n/a	n/a	n/a	n/a						
Fuel transfer tax <sup>2</sup>	n/a	n/a	n/a	n/a	n/a						
Extraterritorial fish tax <sup>2</sup>	n/a	n/a	n/a	n/a	n/a						
Bulk fuel transfers <sup>1</sup>	n/a	n/a	n/a	n/a	n/a						
Boat hauls <sup>2</sup>	n/a	n/a	n/a	n/a	n/a						
Harbor usage <sup>2</sup>	n/a	n/a	n/a	n/a	n/a						
Port/dock usage <sup>2</sup>	n/a	n/a	n/a	n/a	n/a						
Fishing gear storage on public land <sup>3</sup>	n/a	n/a	n/a	n/a	n/a						
Marine fuel sales tax <sup>3</sup>	n/a	n/a	n/a	n/a	n/a						
<i>Total fisheries-related revenue</i> <sup>4</sup>	<i>n/a</i>	<i>\$74</i>	<i>n/a</i>	<i>\$122</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>\$92</i>	<i>\$94</i>	<i>\$114</i>	<i>\$120</i>
<i>Total municipal revenue</i> <sup>5</sup>	<i>\$808,190</i>	<i>\$814,219</i>	<i>\$793,188</i>	<i>\$858,215</i>	<i>\$543,693</i>	<i>\$794,689</i>	<i>\$507,101</i>	<i>\$1.26 M</i>	<i>\$1.56 M</i>	<i>\$601,565</i>	<i>\$619,185</i>

Note: n/a indicates that no data were reported for that year.

<sup>1</sup> Alaska Department of Community and Economic Development. (n.d.) *Alaska Taxable (2000-2010)*. Retrieved April 15, 2011 from [http://www.commerce.state.ak.us/dca/osa/osa\\_summary.cfm](http://www.commerce.state.ak.us/dca/osa/osa_summary.cfm).

<sup>2</sup> Alaska Department of Community and Rural Affairs. (n.d.) *Financial Documents Delivery System*. Retrieved April 15, 2011 at [http://www.commerce.state.ak.us/dcra/commfin/CF\\_FinRec.cfm](http://www.commerce.state.ak.us/dcra/commfin/CF_FinRec.cfm).

<sup>3</sup> Reported by community leaders in a survey conducted by the AFSC in 2011.

<sup>4</sup> Total fisheries related revenue represents a sum of all known revenue sources in the previous rows.

<sup>5</sup> Total municipal revenue represents the total revenue that the city reports each year in its municipal budget. Alaska Department of Community and Rural Affairs. (n.d.) *Financial Documents Delivery System*. Retrieved April 15, 2011 at [http://www.commerce.state.ak.us/dcra/commfin/CF\\_FinRec.cfm](http://www.commerce.state.ak.us/dcra/commfin/CF_FinRec.cfm).

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Table 4. Permits and Permit Holders by Species, Chevak: 2000-2010.

Species		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Groundfish (LLP) <sup>1</sup>	Total permits	0	0	0	0	0	0	0	0	0	0	0
	Active permits	0	0	0	0	0	0	0	0	0	0	0
	% of permits fished	n/a										
	Total permit holders	0	0	0	0	0	0	0	0	0	0	0
Crab (LLP) <sup>1</sup>	Total permits	0	0	0	0	0	0	0	0	0	0	0
	Active permits	0	0	0	0	0	0	0	0	0	0	0
	% of permits fished	n/a										
	Total permit holders	0	0	0	0	0	0	0	0	0	0	0
Federal Fisheries Permits <sup>1</sup>	Total permits	0	0	0	0	0	0	0	0	0	0	0
	Fished permits	0	0	0	0	0	0	0	0	0	0	0
	% of permits fished	n/a										
	Total permit holders	0	0	0	0	0	0	0	0	0	0	0
Crab (CFEC) <sup>2</sup>	Total permits	0	0	0	0	0	0	0	0	0	0	0
	Fished permits	0	0	0	0	0	0	0	0	0	0	0
	% of permits fished	n/a										
	Total permit holders	0	0	0	0	0	0	0	0	0	0	0
Other shellfish (CFEC) <sup>2</sup>	Total permits	0	0	0	0	0	0	0	0	0	0	0
	Fished permits	0	0	0	0	0	0	0	0	0	0	0
	% of permits fished	n/a										
	Total permit holders	0	0	0	0	0	0	0	0	0	0	0
Halibut (CFEC) <sup>2</sup>	Total permits	0	0	0	11	1	1	2	6	5	3	4
	Fished permits	0	0	0	0	0	0	0	2	2	1	2
	% of permits fished	n/a	n/a	n/a	0%	0%	0%	0%	33%	40%	33%	50%
	Total permit holders	0	0	0	9	1	1	2	6	5	3	4
Herring (CFEC) <sup>2</sup>	Total permits	20	20	20	20	20	20	21	21	21	20	20
	Fished permits	9	1	1	1	1	0	0	0	0	0	0
	% of permits fished	45%	5%	5%	5%	5%	0%	0%	0%	0%	0%	0%
	Total permit holders	20	21	20	20	21	20	21	21	21	20	20

Table 4 cont'd. Permits and Permit Holders by Species, Chevak: 2000-2010.

Species		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Sablefish (CFEC) <sup>2</sup>	Total permits	0	0	0	0	1	0	0	0	0	0	0
	Fished permits	0	0	0	0	0	0	0	0	0	0	0
	% of permits fished	n/a	n/a	n/a	n/a	0%	n/a	n/a	n/a	n/a	n/a	n/a
	Total permit holders	0	0	0	0	1	0	0	0	0	0	0
Groundfish (CFEC) <sup>2</sup>	Total permits	0	0	0	0	0	0	0	0	0	0	0
	Fished permits	0	0	0	0	0	0	0	0	0	0	0
	% of permits fished	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Total permit holders	0	0	0	0	0	0	0	0	0	0	0
Other Finfish (CFEC) <sup>2</sup>	Total permits	0	0	0	0	0	0	0	0	0	0	0
	Fished permits	0	0	0	0	0	0	0	0	0	0	0
	% of permits fished	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Total permit holders	0	0	0	0	0	0	0	0	0	0	0
Salmon (CFEC) <sup>2</sup>	Total permits	2	2	2	2	2	3	3	3	3	2	2
	Fished permits	1	0	1	2	1	2	1	2	0	0	0
	% of permits fished	50%	0%	50%	100%	50%	67%	33%	67%	0%	0%	0%
	Total permit holders	2	2	2	2	3	3	3	3	3	2	2
<i>Total CFEC Permits<sup>2</sup></i>	<i>Permits</i>	<i>22</i>	<i>22</i>	<i>22</i>	<i>33</i>	<i>24</i>	<i>24</i>	<i>26</i>	<i>30</i>	<i>29</i>	<i>25</i>	<i>26</i>
	<i>Fished permits</i>	<i>10</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>2</i>	<i>2</i>	<i>1</i>	<i>4</i>	<i>2</i>	<i>1</i>	<i>2</i>
	<i>% of permits fished</i>	<i>45%</i>	<i>5%</i>	<i>9%</i>	<i>9%</i>	<i>8%</i>	<i>8%</i>	<i>4%</i>	<i>13%</i>	<i>7%</i>	<i>4%</i>	<i>8%</i>
	<i>Permit holders</i>	<i>21</i>	<i>22</i>	<i>21</i>	<i>28</i>	<i>24</i>	<i>23</i>	<i>25</i>	<i>28</i>	<i>27</i>	<i>25</i>	<i>26</i>

<sup>1</sup>National Marine Fisheries Service. (2011). Data on Limited Liability Permits, Alaska Federal Processor Permits (FPP), Federal Fisheries Permits (FFP), and Permit holders. NMFS Alaska Regional Office. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. [URL not publicly available as some information is confidential.]

<sup>2</sup>Alaska Commercial Fisheries Entry Commission. (2011). Alaska commercial fishing permits, permit holders, and vessel licenses, 2000 – 2010. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. [URL not publicly available as some information is confidential.]

Table 5. Characteristics of the Commercial Fishing Sector in Chevak: 2000-2010.

Year	Crew License Holders <sup>1</sup>	Count Of All Fish Buyers <sup>2</sup>	Count Of Shore-Side Processing Facilities <sup>3</sup>	Vessels Primarily Owned By Residents <sup>4</sup>	Vessels Homeported <sup>4</sup>	Vessels Landing Catch In Chevak <sup>2</sup>	Total Net Pounds Landed In Chevak <sup>2,5</sup>	Total Ex-Vessel Value Of Landings In Chevak <sup>2,5</sup>
2000	25	0	0	14	12	0	0	\$0
2001	1	0	0	9	7	0	0	\$0
2002	3	0	0	5	3	0	0	\$0
2003	2	0	0	14	11	0	0	\$0
2004	2	0	0	9	7	0	0	\$0
2005	3	0	0	4	2	0	0	\$0
2006	6	0	0	4	2	0	0	\$0
2007	4	0	0	8	5	0	0	\$0
2008	2	0	0	7	4	0	0	\$0
2009	4	0	0	5	4	0	0	\$0
2010	7	0	0	7	7	0	0	\$0

<sup>1</sup> Alaska Department of Fish and Game. (2011). Alaska sport fish and crew license holders, 2000 – 2010. ADF&G Division of Administrative Services. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. [URL not publicly available as some information is confidential.]

<sup>2</sup> Alaska Department of Fish and Game, and Alaska Commercial Fisheries Entry Commission. (2011). Alaska fish ticket data. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. [URL not publicly available as some information is confidential.]

<sup>3</sup> Alaska Department of Fish and Game. (2011). Data on Alaska fish processors. ADF&G Division of Commercial Fisheries. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. [URL not publicly available as some information is confidential.]

<sup>4</sup> Alaska Commercial Fisheries Entry Commission. (2011). Alaska commercial fishing permits, permit holders, and vessel licenses, 2000 – 2010. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. [URL not publicly available as some information is confidential.]

<sup>5</sup> Totals only represent non-confidential data.

Table 6. Halibut Catch Share Program Participation by Residents of Chevak: 2000-2010.

<b>Year</b>	<b>Number of Halibut Quota Share Account Holders</b>	<b>Halibut Quota Shares Held</b>	<b>Halibut IFQ Allotment (pounds)</b>
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0
2010	0	0	0

Source: National Marine Fisheries Service. (2011). Alaska Individual Fishing Quota (IFQ) permit data. NMFS Alaska Regional Office. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. [URL not publicly available as some information is confidential.]

Table 7. Sablefish Catch Share Program Participation by Residents of Chevak: 2000-2010.

<b>Year</b>	<b>Number of Sablefish Quota Share Account Holders</b>	<b>Sablefish Quota Shares Held</b>	<b>Sablefish IFQ Allotment (pounds)</b>
2000	0	0	0
2001	0	0	0
2002	0	0	0
2003	0	0	0
2004	0	0	0
2005	0	0	0
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0
2010	0	0	0

Source: National Marine Fisheries Service. (2011). Alaska Individual Fishing Quota (IFQ) permit data. NMFS Alaska Regional Office. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. [URL not publicly available as some information is confidential.]

Table 8. Bering Sea and Aleutian Island Crab Catch Share Program Participation by Residents of Chevak: 2000-2010.

<b>Year</b>	<b>Number of Crab Quota Share Account Holders</b>	<b>Crab Quota Shares Held</b>	<b>Crab IFQ Allotment (pounds)</b>
2005	0	0	0
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0
2010	0	0	0

Source: National Marine Fisheries Service. (2011). Alaska Individual Fishing Quota (IFQ) permit data. NMFS Alaska Regional Office. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. [URL not publicly available as some information is confidential.]

Table 9. Landed Pounds and Ex-vessel Revenue, by Species, in Chevak: 2000-2010.

	<i>Total Net Pounds<sup>1</sup></i>										
	<i>2000</i>	<i>2001</i>	<i>2002</i>	<i>2003</i>	<i>2004</i>	<i>2005</i>	<i>2006</i>	<i>2007</i>	<i>2008</i>	<i>2009</i>	<i>2010</i>
Crab	0	0	0	0	0	0	0	0	0	0	0
Finfish	0	0	0	0	0	0	0	0	0	0	0
Halibut	0	0	0	0	0	0	0	0	0	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0
Other Groundfish	0	0	0	0	0	0	0	0	0	0	0
Other Shellfish	0	0	0	0	0	0	0	0	0	0	0
Pacific Cod	0	0	0	0	0	0	0	0	0	0	0
Pollock	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0
<i>Total<sup>2</sup></i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
	<i>Ex-vessel Value (nominal U.S. dollars)</i>										
	<i>2000</i>	<i>2001</i>	<i>2002</i>	<i>2003</i>	<i>2004</i>	<i>2005</i>	<i>2006</i>	<i>2007</i>	<i>2008</i>	<i>2009</i>	<i>2010</i>
Crab	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Finfish	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Halibut	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Herring	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Groundfish	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Shellfish	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pacific Cod	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pollock	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Sablefish	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Salmon	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<i>Total<sup>2</sup></i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>

Source: Alaska Department of Fish and Game, and Alaska Commercial Fisheries Entry Commission. (2011). Alaska fish ticket data. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. [URL not publicly available as some information is confidential.]

<sup>1</sup> Net lbs refers to the landed weight recorded in fish tickets.

<sup>2</sup> Totals only represent non-confidential data.

Table 10. Landed Pounds and Ex-vessel Revenue, by Species, by Chevak Residents: 2000-2010.

	<i>Total Net Pounds<sup>1</sup></i>										
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Crab	--	--	--	--	--	--	--	--	--	--	--
Finfish	--	--	--	--	--	--	--	--	--	--	--
Halibut	--	--	--	--	--	--	--	--	--	--	--
Herring	178,918	--	--	--	--	--	--	--	--	--	--
Other Groundfish	--	--	--	--	--	--	--	--	--	--	--
Other Shellfish	--	--	--	--	--	--	--	--	--	--	--
Pacific Cod	--	--	--	--	--	--	--	--	--	--	--
Pollock	--	--	--	--	--	--	--	--	--	--	--
Sablefish	--	--	--	--	--	--	--	--	--	--	--
Salmon	--	--	--	--	--	--	--	--	--	--	--
<i>Total<sup>2</sup></i>	<i>178,918</i>	--	--	--	--	--	--	--	--	--	--
	<i>Ex-vessel Value (nominal U.S. dollars)</i>										
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Crab	--	--	--	--	--	--	--	--	--	--	--
Finfish	--	--	--	--	--	--	--	--	--	--	--
Halibut	--	--	--	--	--	--	--	--	--	--	--
Herring	\$12,051	--	--	--	--	--	--	--	--	--	--
Other Groundfish	--	--	--	--	--	--	--	--	--	--	--
Other Shellfish	--	--	--	--	--	--	--	--	--	--	--
Pacific Cod	--	--	--	--	--	--	--	--	--	--	--
Pollock	--	--	--	--	--	--	--	--	--	--	--
Sablefish	--	--	--	--	--	--	--	--	--	--	--
Salmon	--	--	--	--	--	--	--	--	--	--	--
<i>Total<sup>2</sup></i>	<i>\$12,051</i>	--	--	--	--	--	--	--	--	--	--

Note: Cells showing "--" indicate that the data are considered confidential.

Source: Alaska Department of Fish and Game, and Alaska Commercial Fisheries Entry Commission. (2011). Alaska fish ticket data. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. [URL not publicly available as some information is confidential.]

<sup>1</sup> Net lbs refers to the landed weight recorded in fish tickets.

<sup>2</sup> Totals only represent non-confidential data.

### *Recreational Fishing*

Recreational fishing has not been a significant part of Chevak’s participation in North Pacific Fisheries. In a survey conducted by the AFSC in 2011, community leaders reported that residents recreationally fish for pleasure or personal use and that there are no guided or charter fishing businesses registered in the community.

Chevak is located within the Yukon Drainage ADF&G Harvest Survey Area which includes all drainages for the Yukon, Alatna, and Koyukuk Rivers. In 2010, there were 92 sport fishing licenses sold to residents, compared to 44 in 2000. The number of permits sold to residents peaked in 2008 at 128, which corresponded with the peak in resident freshwater angler days fished within the survey region. In 2010, there was a total of 9,134 freshwater angler days fished, compared to 11,223 in 2000. In that year, non-Alaska resident private anglers accounted for 43.6% of the total angler-days fished, compared to 29.8% in 2000. According to ADF&G

harvest survey data, resident private anglers target coho and pink salmon, rainbow trout, and Dungeness crab. Information regarding sport fishing trends can be found in Table 11.

Table 11. Sport Fishing Trends, Chevak: 2000-2010.

Year	Active Sport Fish Guide Businesses <sup>1</sup>	Sport Fish Guide Licenses <sup>1</sup>	Sport Fishing Licenses Sold to Residents <sup>2</sup>	Sport Fishing Licenses Sold in Chevak <sup>2</sup>
2000	0	0	44	0
2001	0	0	19	0
2002	0	0	50	0
2003	0	0	60	0
2004	0	0	116	0
2005	0	0	101	0
2006	0	0	95	0
2007	0	0	111	0
2008	0	0	128	41
2009	0	0	98	62
2010	0	0	92	0

Year	Saltwater		Freshwater	
	Angler Days Fished – Non-residents <sup>3</sup>	Angler Days Fished – Alaska Residents <sup>3</sup>	Angler Days Fished – Non-residents <sup>3</sup>	Angler Days Fished – Alaska Residents <sup>3</sup>
2000	81	45	3,345	7,878
2001	29	14	4,063	6,454
2002	n/a	89	5,761	9,194
2003	n/a	17	3,344	5,756
2004	17	n/a	5,479	7,613
2005	n/a	n/a	4,182	4,783
2006	n/a	n/a	3,607	7,816
2007	n/a	n/a	3,168	8,226
2008	n/a	n/a	2,573	10,400
2009	n/a	n/a	2,969	7,639
2010	n/a	n/a	3,983	5,151

<sup>1</sup> Alaska Department of Fish and Game. (2011). Alaska sport fish guide licenses and businesses, 2000 – 2010. ADF&G Division of Administrative Services. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. [URL not publicly available as some information is confidential.]

<sup>2</sup> Alaska Department of Fish and Game. (2011). Alaska sport fish and crew license holders, 2000 – 2010. ADF&G Division of Administrative Services. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. [URL not publicly available as some information is confidential.]

<sup>3</sup> Alaska Department of Fish and Game. (2011). Alaska Sport Fishing Survey results, 2000 – 2010. ADF&G Division of Sport Fish, Alaska Statewide Harvest Survey project. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. [http://www.adfg.alaska.gov/sf/sport\\_fishingsurvey/](http://www.adfg.alaska.gov/sf/sport_fishingsurvey/) (Accessed September 2011).

*Subsistence Fishing*

Subsistence fishing is widely practiced in the area and is an important part of the local economy and culture. In a survey conducted by the AFSC in 2011, community leaders reported that residents harvest salmon, roe, herring, blackfish, tomcod, lush, northern pike, whitefish, sheefish, marine mammals, birds, and edible plants. ADF&G subsistence survey data are limited, and data on subsistence participation by household are unavailable. In 2008, 2 residents held subsistence salmon permits. In 2009, 5 residents held Subsistence Halibut Registration Certificates (SHARC), compared to 10 in 2003. In that year, an estimated 193 lbs of halibut was harvested on 3 SHARC, compared to 482 lbs harvested on 8 SHARC in 2005. No halibut harvests were reported for 2010 despite 2 residents holding SHARC. Between 2000 and 2010, 8 walrus were harvested. Walrus harvests peaked in 2000 at 3 animals. No data are available regarding subsistence sea lion and seal harvests. Information regarding subsistence trends can be found in Tables 12 through 15.

**Additional Information**

In a survey conducted by the AFSC in 2011, community leaders voiced several concerns over conditions impacting the local fishing economy. Concerns include insufficient CDQ halibut allocations, Bering Sea bycatch impacts to subsistence harvesting, limited gillnetting on the Yukon River, and the potential for pollock fishery closures. There is also concern whether bycatch distributed nationally through the “bycatch to food banks” program would be better utilized by local communities where cost of living is high.

Table 12. Subsistence Participation by Household and Species, Chevak: 2000-2010.

Year	% Households Participating In Salmon Subsistence	% Households Participating In Halibut Subsistence	% Households Participating In Marine Mammal Subsistence	% Households Participating In Marine Invertebrate Subsistence	% Households Participating In Non-Salmon Fish Subsistence	Per Capita Subsistence Harvest (Pounds)
2000	n/a	n/a	n/a	n/a	n/a	n/a
2001	n/a	n/a	n/a	n/a	n/a	n/a
2002	n/a	n/a	n/a	n/a	n/a	n/a
2003	n/a	n/a	n/a	n/a	n/a	n/a
2004	n/a	n/a	n/a	n/a	n/a	n/a
2005	n/a	n/a	n/a	n/a	n/a	n/a
2006	n/a	n/a	n/a	n/a	n/a	n/a
2007	n/a	n/a	n/a	n/a	n/a	n/a
2008	n/a	n/a	n/a	n/a	n/a	n/a
2009	n/a	n/a	n/a	n/a	n/a	n/a
2010	n/a	n/a	n/a	n/a	n/a	n/a

*Note: n/a indicates that no data were reported for that year.*

Source: Alaska Department of Fish and Game. 2011. Community Subsistence Information System (CSIS). ADF&G Division of Subsistence. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. <http://www.adfg.alaska.gov/sb/CSIS/> (Accessed February 2011).

Table 13. Subsistence Fishing Participation for Salmon, Marine Invertebrates, and Non-Salmon Fish, Chevak: 2000-2010.

Year	Subsistence Salmon Permits Issued <sup>1</sup>	Salmon Permits Returned <sup>1</sup>	Chinook Salmon Harvested <sup>1</sup>	Chum Salmon Harvested <sup>1</sup>	Coho Salmon Harvested <sup>1</sup>	Pink Salmon Harvested <sup>1</sup>	Sockeye Salmon Harvested <sup>1</sup>	Lbs of Marine Inverts <sup>2</sup>	Lbs of Non-Salmon Fish <sup>2</sup>
2000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2002	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2003	1	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2004	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2005	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2006	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2007	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2008	2	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2009	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2010	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Note: n/a indicates that no data were reported for that year.

<sup>1</sup> Fall, J.A., C. Brown, N. Braem, J.J. Simon, W.E. Simeone, D.L. Holen, L. Naves, L. Hutchinson-Scarborough, T. Lemons, and T.M. Krieg. 2011, revised. Alaska subsistence salmon fisheries 2008 annual report. Alaska Department of Fish and Game Division of Subsistence, Technical Paper No. 359, Anchorage. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle.

<sup>2</sup> Alaska Department of Fish and Game. (2011). Community Subsistence Information System (CSIS). ADF&G Division of Subsistence. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle. <http://www.adfg.alaska.gov/sb/CSIS/> (Accessed February 2011).

Table 14. Subsistence Halibut Fishing Participation, Chevak: 2003-2010.

Year	SHARC Issued	SHARC Cards Fished	SHARC Halibut Lbs Harvested
2003	10	8	n/a
2004	13	1	n/a
2005	13	9	482
2006	11	9	433
2007	9	4	n/a
2008	6	3	11
2009	5	3	193
2010	2	n/a	n/a

Note: n/a indicates that no data were reported for that year.

Source: Fall, J.A. and D. Koster. (2011). Subsistence harvests of Pacific halibut in Alaska, 2009. Alaska Department of Fish and Game Division of Subsistence, Technical Paper No. 357, Anchorage. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle.

Table 15. Subsistence Harvests of Marine Mammal Resources, Chevak: 2000-2010.

Year	# of Beluga Whales <sup>1</sup>	# of Sea Otters <sup>2</sup>	# of Walrus <sup>2</sup>	# of Polar Bears <sup>2</sup>	# of Steller Sea Lions <sup>3</sup>	# of Harbor Seals <sup>3</sup>	# of Spotted Seals <sup>3</sup>
2000	n/a	n/a	3	n/a	n/a	n/a	n/a
2001	n/a	n/a	2	n/a	n/a	n/a	n/a
2002	n/a	n/a	1	n/a	n/a	n/a	n/a
2003	n/a	n/a	1	n/a	n/a	n/a	n/a
2004	n/a	n/a	1	n/a	n/a	n/a	n/a
2005	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2006	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2007	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2008	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2009	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2010	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Note: n/a indicates that no data were reported for that year.

<sup>1</sup> Frost, K.J., and R.S. Suydam. 2010. Subsistence harvest of beluga or white whales (*Delphinapterus leucas*) in northern and western Alaska, 1987–2006. *J. Cetacean Res. Manage.* 11(3): 293–299. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle.

<sup>2</sup> U.S. Fish and Wildlife Service. 2011. Marking, Tagging and Reporting Program data bases for northern sea otter, Pacific walrus and polar bear. Office of Marine Mammals Management. Anchorage, Alaska. Data compiled by Alaska Fisheries Information Network for Alaska Fisheries Science Center, Seattle.

<sup>3</sup> Wolfe, R.J., Fall, J.A. and M. Riedel. 2009. The subsistence harvest of harbor seals and sea lions by Alaska Natives in 2008. Alaska Native Harbor Seal Commission and Alaska Department of Fish and Game Division of Subsistence, Technical Paper No. 347, Anchorage.