

## **Port Heiden (*HIGH-dun*)**

### **People and Place**

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



Port Heiden is located 424 miles southwest of Anchorage, at the mouth of the Meshik River, on the north side of the Alaska Peninsula. It lies near the Aniakchak National Preserve and Monument. Port Heiden is located in the Kvichak Recording District and the Lake and Peninsula Census Area and is part of the Lake and Peninsula Borough. The City encompasses 50.7 square miles of land and 0.7 square miles of water.

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

In 2010 there were 102 residents, making Port Heiden the 102<sup>nd</sup> largest City out of 352 total Alaskan communities with recorded populations that year. Overall between 2000 and 2009, the population has experienced a 30.3% decline and the average growth rate during these years was 0.02%, which represents a slowing decline in population over time and a significant increase between 2009 and 2010. The change in population from 1990 to 2010 is provided in Table 1.

In a survey conducted by NOAA's Alaska Fisheries Science Center (AFSC) in 2011, community leaders estimate that Port Heiden has approximately 20 seasonal workers that live in the city from May to October each year.

The racial composition of Port Heiden in 2010 was as follows: 83.3% of community residents identified themselves as American Indian and Alaska Native, 14.7% identified themselves as White, and 2% identified themselves as two or more races. The percentage of residents who identified themselves as American Indian and Alaska Native increased by 17.8% between 2000 and 2010, with corresponding decreases in the percentage of residents who identified themselves as White, Hispanic, two or more races, and other races. The changes in racial and ethnic composition in Port Heiden from 2000 to 2010 are provided in Figure 1. In 2010, the average household size was 2.91, a very slight increase from 2.8 in 1990 and 2.9 in 2000. However, there has been a slight decrease in the total number of households, from 42 in 1990 to 41 in 2000 to 35 in 2010. Of the 56 total housing units available in Port Heiden, 22 were owner-occupied in 2010, with 21 vacant units and 13 occupied by renters. None of the population of Port Heiden was living in group quarters in 2010.

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<sup>1</sup> Alaska Dept. of Comm. 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>.

In 2010, the gender makeup was slightly skewed, with 55.9% males and 44.1% females, with a slightly larger percentage of males than the state as a whole (52% male, 48% female). The median age was 26.7 years, approximately 10 years younger than the U.S. national average of 36.8 years and also lower than the median age for Alaska, 33.8 years. The overall population structure of Port Heiden is shown in Figure 2. The largest percentage of the population fell within the age category 0-29 years old. The next largest percentage of the population fell within the age category 40-59 years old, with relatively few people age 60 or older.

Table 1. Population in Port Heiden from 1990 to 2010 by Source.

Year	U.S. Decennial Census <sup>1</sup>	Alaska Dept. of Labor Estimate of Permanent Residents <sup>2</sup>
1990	119	-
2000	119	-
2001	-	118
2002	-	108
2003	-	85
2004	-	90
2005	-	89
2006	-	79
2007	-	86
2008	-	90
2009	-	83
2010	102	-

<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, Port Heiden: 2000-2010 (U.S. Census).

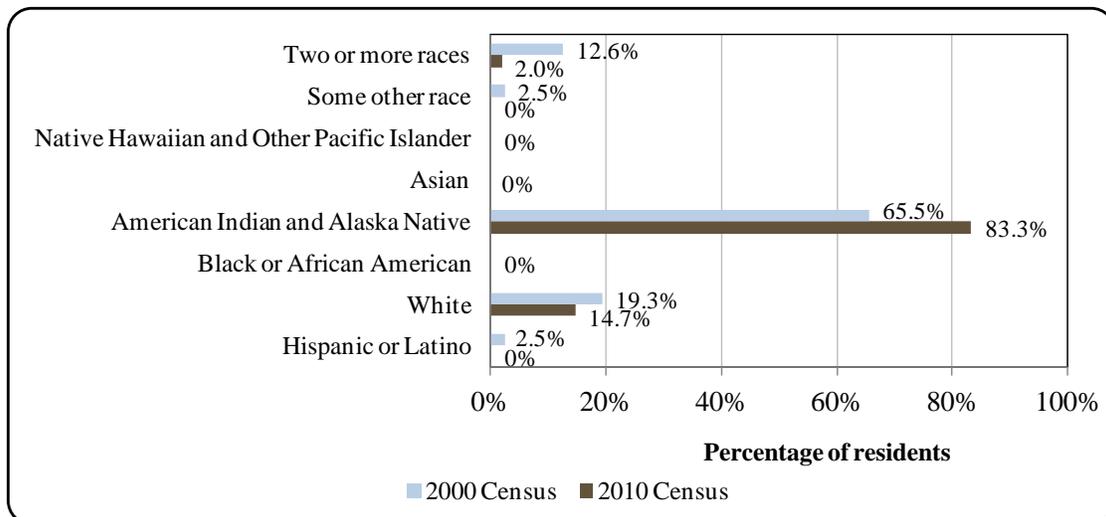
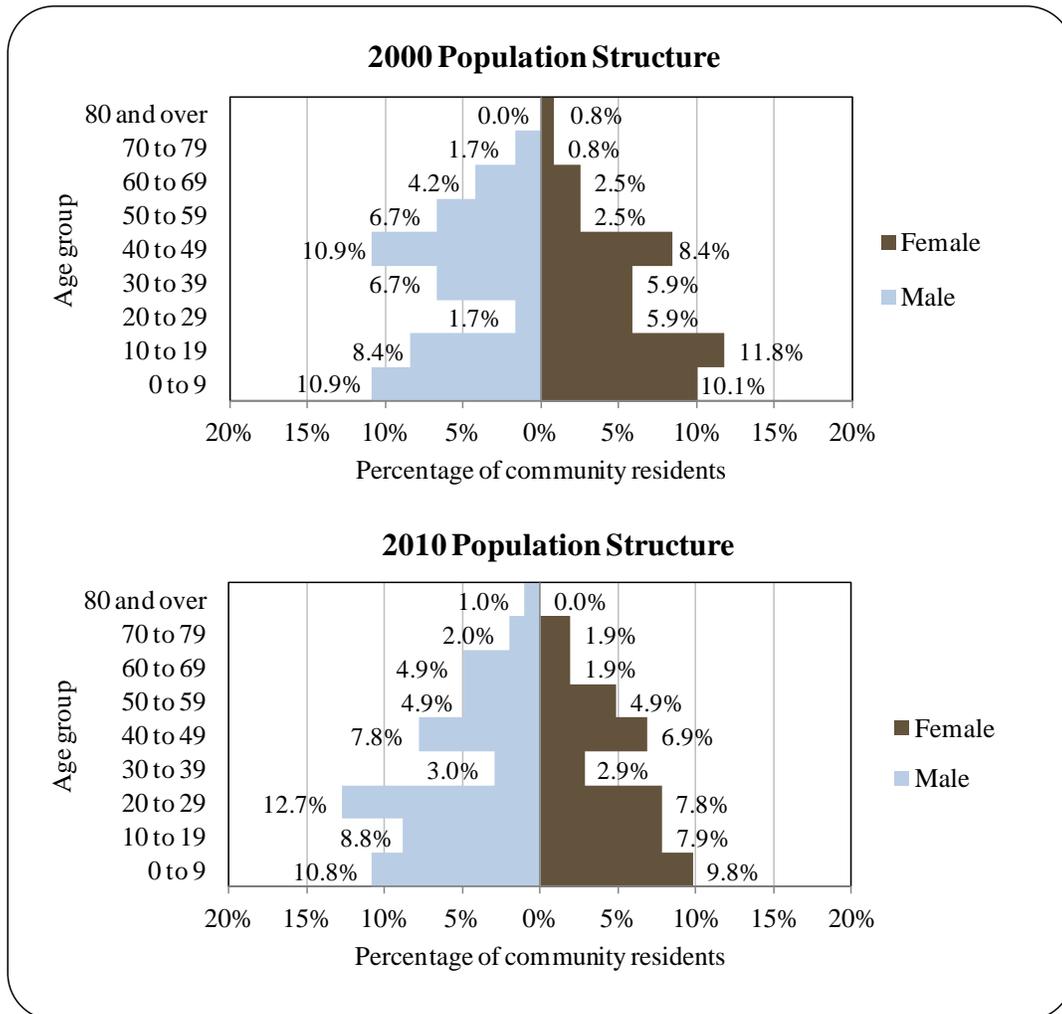


Figure 2. Population Age Structure in Port Heiden Based on the 2000 and 2010 U.S. Decennial Census.



In terms of educational attainment, according to the 2006-2010 American Community Survey (ACS),<sup>3</sup> 81% of residents aged 25 years and older were estimated to hold a high school diploma or higher degree in 2010, compared to 90.7% of Alaskan residents overall. Also, in 2010, 19% of the population aged 25 years and older had a 9<sup>th</sup> to 12<sup>th</sup> grade education but no diploma, compared to 5.8% of Alaskan residents overall; 38.1% held a high school diploma or equivalent, compared to 27.4% of Alaskan residents overall; 26.2% had some college but no degree, compared to 28.3% of Alaskan residents overall; 7.1% held a Bachelor’s degree, compared to 17.4% of Alaskan residents overall; and 9.5% held a graduate or professional degree, compared to 9.6% of Alaskan residents overall.

<sup>3</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.

### *History, Traditional Knowledge, and Culture*<sup>4</sup>

The old village of Meshik was located at the current site of Port Heiden. Influenza epidemics during the early 1900s forced residents to relocate to other villages. During World War II, Fort Morrow was built nearby and 5,000 personnel were stationed at the base. The fort was closed after the war. A school was established in the early 1950s, which attracted people from surrounding villages. Port Heiden incorporated as a city in 1972. The community relocated inland, because storm waves had eroded much of the old townsite and threatened to destroy community buildings. Port Heiden is a traditional Alutiiq community with a commercial fishing and subsistence lifestyle.

### **Natural Resources and Environment**<sup>5</sup>

Port Heiden has a maritime climate with cool summers, relatively warm winters, and abundant rainfall. January temperatures average 25°F (-3.8°C) and July temperatures average 50°F (10°C). Snowfall in Port Heiden averages 58 inches per year.

In a survey conducted by the AFSC in 2011, community leaders reported local reliance on natural resource-based activities, especially fishing, for the Port Heiden economy.

Port Heiden is located on the Alaska Peninsula, near the Becharof National Wildlife Refuge to the north and the Aniakchak National Monument and Preserve to the south. The Becharof National Wildlife Refuge covers an area of 1,157,000 acres and contains Becharof Lake, the second largest lake in Alaska, and Mt. Peulik, a 4,800 foot volcano. Wildlife present in the Refuge includes brown bears, caribou, moose, over 200 species of migratory and resident birds, and provides an important nursery for Pacific salmon.<sup>6</sup> The Aniakchak National Monument and Preserve contains the Aniakchak Caldera. Volcanic activity in the caldera subsided after the most recent eruption in 1931, but hot spots and warm springs on the caldera floor indicate that eruptive activity may resume at any time. Wildlife present in the National Monument and Preserve include brown bear, caribou, moose, wolf, wolverine, waterfowl, sea otter, harbor seal, sea lion, and numerous smaller species. The region also contains extensive wild runs of five species of Pacific salmon, including nursery areas for sockeye salmon runs that are part of the Bristol Bay and Kodiak/Chignik sockeye salmon fisheries.<sup>7</sup>

Reserves of oil and natural gas are also thought to be present on the outer continental shelf in the Bristol Bay Basin, which runs along the northern edge of the Aleutian Islands and Alaska Peninsula.<sup>8</sup> However, given the importance of Bristol Bay fisheries to the nation and the proximity of the Bristol Bay Basin to a number of protected areas, in March 2010 Secretary of the Interior Ken Salazar removed the area from oil and gas leasing for the 2007-2012 program.<sup>9</sup>

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<sup>4</sup> Alaska Dept. of Comm. 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>5</sup> Ibid.

<sup>6</sup> U.S. Fish and Wildlife Service. 2011. *Becharof National Wildlife Refuge*. Retrieved December 21, 2011 from <http://becharof.fws.gov/>.

<sup>7</sup> U.S. National Park Service. 2011. *Aniakchak National Monument and Preserve: Nature and Science*. Retrieved April 24, 2012 from <http://www.nps.gov/ania/naturescience/index.htm>.

<sup>8</sup> Alaska Department of Natural Resources. 2005. *Bristol Bay Area Plan for State Lands*. Retrieved January 4, 2012 from <http://dnr.alaska.gov/mlw/planning/areaplans/bristol/index.htm>.

<sup>9</sup> Minerals Management Service. 2010. *Preliminary Revised Program Outer Continental Shelf Oil and Gas Leasing Program 2007-2012*. Retrieved January 6, 2012 from <http://www.boemre.gov/5-year/PDFs/PRP2007-2012.pdf>.

On March 31, 2010, President Obama withdrew the Bristol Bay area of the North Aleutian Basin from oil and gas leasing, whether for exploratory or production purposes, through 2017.<sup>10</sup>

## Current Economy<sup>11</sup>

Commercial fishing and government jobs provide the majority of cash income in Port Heiden. In 2010, 11 residents held commercial fishing permits. Subsistence harvests of salmon, other fish, and marine mammals are important food sources in the community. Game, birds, plants, and berries are also an important part of villagers' diets.<sup>12</sup>

Based on household surveys conducted for the 2006-2010 ACS,<sup>13</sup> in 2010, the per capita income in Port Heiden was estimated to be \$22,257 and the median household income was estimated to be \$51,500, compared to \$20,532 and \$31,875 in 2000, respectively. However, after adjusting for inflation by converting the 2000 values to 2010 dollars,<sup>14</sup> the 2000 real per capita income (\$26,999) and real median household income (\$41,915) indicate an overall decrease in per capita income between 2000 and 2010, but a large increase in median household income during the same time period. However, Port Heiden's small population size may have prevented the ACS from accurately portraying economic conditions.<sup>15</sup> A potentially more accurate 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. If total wages reported in the ALARI database for 2010 are divided by the 2010 population reported by the U.S. Census, the resulting per capita income estimate for Port Heiden in 2010 is \$14,819.<sup>16,17</sup> This estimate provides support for an overall decrease in per capita income in Port Heiden between 2000 and 2010. Based on Census and ACS data, in 2010, Port Heiden ranked 133<sup>rd</sup> of 305 communities with per capita income that year, and 123<sup>rd</sup> out of 299 Alaskan communities with household income data.

Based on the 2006-2010 ACS, in 2010, 67.3% of the population age 16 and older was estimated to be in the civilian labor force, compared to the statewide rate of 68.8%. The local unemployment rate was 0%, compared to the statewide unemployment rate of 5.9%. Also in 2010, approximately 27.9% of local residents were living below the poverty line, compared to 9.6% of Alaskans overall. It should be noted that income and poverty statistics are based on

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<sup>10</sup> The White House, Office of the Press Secretary. March 31, 2010. *Memorandum for the Secretary of the Interior: Withdrawal of Certain Areas of the United States Continental Shelf from Leasing Disposition*. Retrieved January 6, 2012 from <http://www.doi.gov/whatwedo/energy/ocs/upload/2010alaska-mem-rel.pdf>.

<sup>11</sup> Unless otherwise noted, all monetary data are reported in nominal values.

<sup>12</sup> See footnote 4.

<sup>13</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>14</sup> Inflation was calculated using the Anchorage Consumer Price Index for 2010 (retrieved October 18, 2011 from the Alaska Department of Labor, <http://labor.alaska.gov/research/cpi/inflationcalc.htm>).

<sup>15</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.

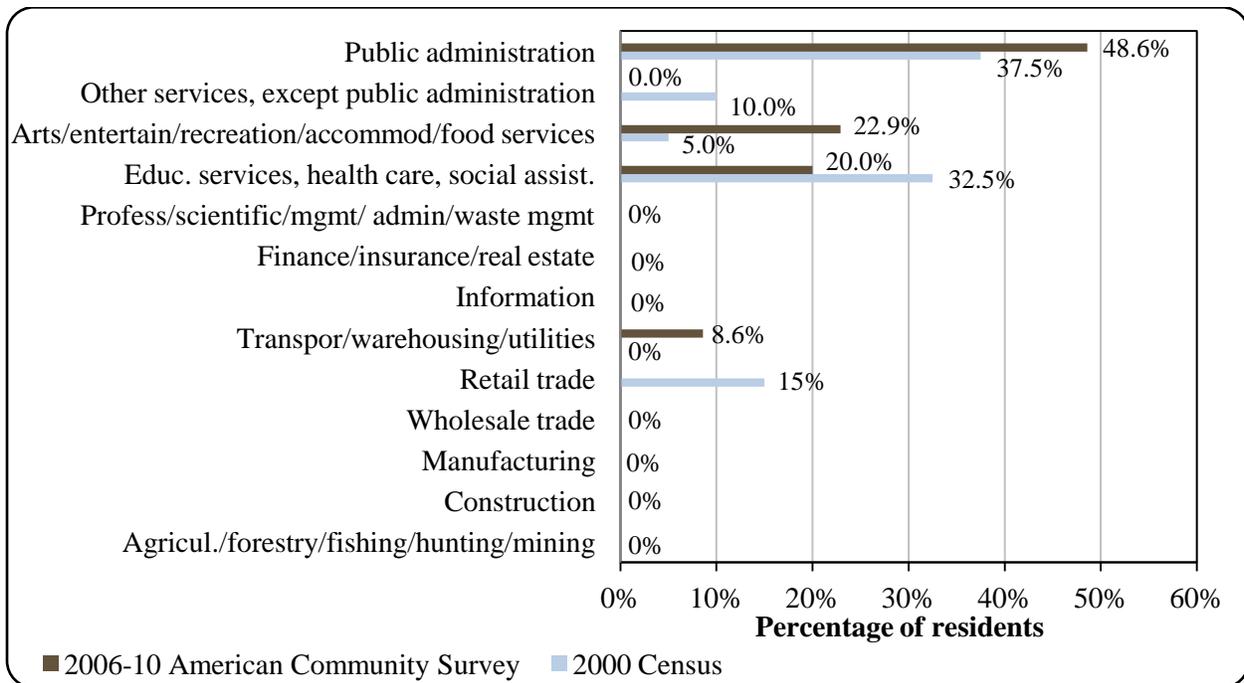
<sup>16</sup> Alaska Department of Labor and Workforce Development (n.d.). *Alaska Local and Regional Information Database*. Retrieved April 23, 2012 from <http://live.laborstats.alaska.gov/alari/>.

<sup>17</sup> See footnote 13.

wage income and other money sources; the relatively low income figures and high poverty rates reported for Port Heiden are not reflective of the value of subsistence to the local economy. In addition, these unemployment and poverty statistics are likely to be inaccurate given Port Heiden’s small population. Another estimate is based on the ALARI database, which indicates that the unemployment rate in 2010 was 21.2%, twice the statewide ALARI unemployment rate estimate of 11.5%.<sup>18</sup>

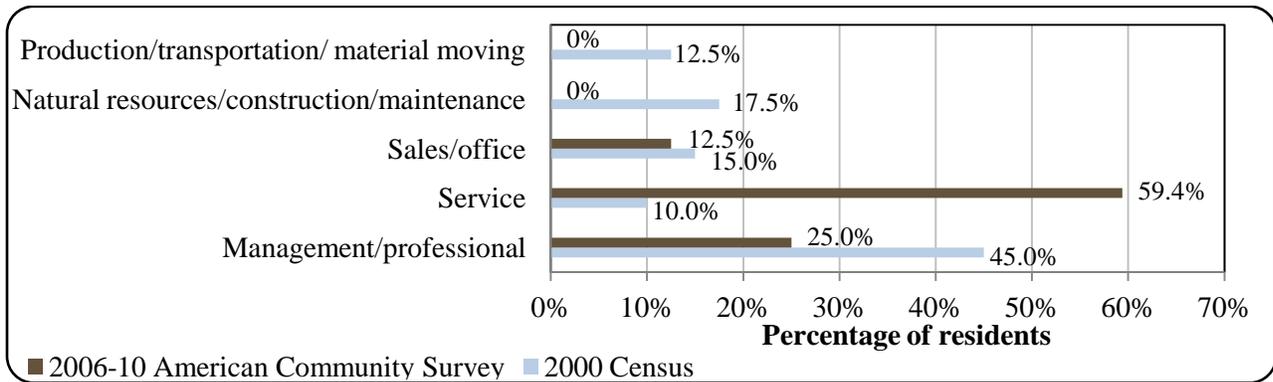
ACS employment estimates suggest that, in 2010, the greatest percentage of workers was employed in the public sector (77.1%), while 8.6% of workers were self-employed and 14.3% were unpaid family workers. Out of 35 people aged 16 and over that were estimated to be employed in the civilian labor force in 2010, the greatest percentage (48.6%) worked in public administration industries. The remainder of the workforce was employed in three other industries: arts, entertainment, recreation, accommodations, and food services (22.9%), education services, health care, and social assistance (20%), and transportation, warehousing, and utilities (8.6%). All of the Port Heiden workforce was estimated to work in three occupation types, including 40% in service occupations (40%), 37.1% in management, business, science and arts, and the remaining 22.9% in sales and office occupations. No Port Heiden residents were estimated to be employed in fishing-related industries or occupations in 2010. The number of individuals employed in fishing may be underestimated in census statistics, as fishermen may hold another job and characterize their employment accordingly. Information about employment by industry is provided in Figure 3, and employment is broken down by occupation in Figure 4.

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



<sup>18</sup> See footnote 16.

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



## Governance

Port Heiden is a 2<sup>nd</sup> Class City located in the Lake and Peninsula Borough. As of 2010, the City of Port Heiden does not administer a sales tax.<sup>19</sup> Locally-generated revenues in Port Heiden between 2000 and 2010 included charges for services such as electricity, garbage collection, the landfill, and fuel sales, equipment rentals, and land leases. Outside revenue sources included state and federal grants and revenue sharing programs. Sources of shared revenue included the State Revenue Sharing program (approximately \$28,000 per year from 2000 to 2003), the Community Revenue Sharing program (\$100,000 per year in 2009 and 2010), the SAFE Communities program (public safety, utilities, infrastructure, etc.), and state raw fish tax refunds in some years (see the *Fisheries-Related Revenue* section of this profile). Fisheries-related grants are also of note. In 2000, Port Heiden received a Magnuson-Stevens Commercial Fishery Disaster Assistance grant in the amount of \$40,889 (Table 2).

There is also a federally-recognized Tribe in the community, the Native Village of Port Heiden. The village corporation is the Alaska Peninsula Corporation, and the regional Native corporation to which Port Heiden belongs is the Bristol Bay Native Corporation (BBNC).<sup>20</sup> The Native Village of Port Heiden is also a member of the Bristol Bay Native Association (BBNA), a regional non-profit organization headquartered in Dillingham that provides social, economic, cultural, and educational opportunities and initiatives for the benefit of the tribes and the Native people of Bristol Bay.<sup>21</sup> The BBNA is one of the 12 regional Alaska Native 501(c)(3) non-profit organizations that were identified under ANCSA and charged with naming incorporators to create regional for-profit corporations. Today, these regional Native associations receive federal funding to administer a broad range of services to villages in their regions.<sup>22</sup>

The nearest Alaska Department of Fish and Game (ADF&G) office is in Chignik, and the nearest National Marine Fisheries Service (NMFS) and Alaska Department of Natural Resources (DNR) offices are in Kodiak. The nearest Alaska Department of Commerce, Community, and

<sup>19</sup> Alaska Dept. of Comm. and Econ. Dev. (n.d.). *Alaska Taxable (2000-2010)*. Retrieved at [http://www.commerce.state.ak.us/dca/osa/osa\\_summary.cfm](http://www.commerce.state.ak.us/dca/osa/osa_summary.cfm).

<sup>20</sup> Alaska Dept. of Comm. 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>21</sup> Bristol Bay Native Association. (n.d.). *Homepage*. Retrieved November 16, 2011 from [www.bbna.com](http://www.bbna.com).

<sup>22</sup> U.S. Government Accountability Office. 2005. *Alaska Native Villages: Report to Congressional Addressees and the Alaska Federation of Natives*. Retrieved February 7, 2012 from <http://www.gao.gov/new.items/d05719.pdf>.

Economic Development office is in Dillingham. The nearest offices for U.S. Immigration and Customs Enforcement and the Bureau of Citizenship and Immigration Services are in Unalaska and Kodiak.

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

Year	Total Municipal Revenue <sup>1</sup>	Sales Tax Revenue <sup>2</sup>	State/Community Revenue Sharing <sup>3</sup>	Fisheries-Related Grants (State and Federal) <sup>4</sup>
2000	\$565,031	n/a	\$29,081	\$40,889
2001	\$542,604	n/a	\$28,135	n/a
2002	\$305,446	n/a	\$28,119	n/a
2003	\$369,247	n/a	\$28,165	n/a
2004	\$883,050	n/a	n/a	n/a
2005	\$277,794 *	n/a	n/a	n/a
2006	\$873,138	n/a	n/a	n/a
2007	\$755,142	n/a	n/a	n/a
2008	\$549,402	n/a	n/a	n/a
2009	\$635,259	n/a	\$100,591	n/a
2010	\$989,463	n/a	\$100,163	n/a

Note: n/a indicates that no data were reported for that year. Cells showing – indicate that the data are considered confidential.

\* This number reflects the year's budget estimate rather than the total reported in the certified financial statement.

<sup>1</sup> Alaska Dept. of Comm. and Rural Affairs. (n.d.). *Financial Documents Delivery System*. Retrieved at [http://www.commerce.state.ak.us/dcra/commfin/CF\\_FinRec.cfm](http://www.commerce.state.ak.us/dcra/commfin/CF_FinRec.cfm). Data retrieved April 15, 2011.

<sup>2</sup> Alaska Dept. of Comm. and Econ. Dev. (n.d.). *Alaska Taxable (2000-2010)*. Retrieved at [http://www.commerce.state.ak.us/dca/osa/osa\\_summary.cfm](http://www.commerce.state.ak.us/dca/osa/osa_summary.cfm). Data retrieved April 15, 2011.

<sup>3</sup> Alaska Dept. of Rev. (n.d.). *(2000-2009) Taxes and Fees Annual Report*. Accessed at [www.tax.state.ak.us](http://www.tax.state.ak.us). Data retrieved April 15, 2011.

<sup>4</sup> Alaska Dept. of Comm. and Rural Affairs. (n.d.). *Community Funding Database*. Retrieved at [http://www.commerce.state.ak.us/dca/commdb/CF\\_Grants.htm](http://www.commerce.state.ak.us/dca/commdb/CF_Grants.htm). Data retrieved April 15, 2011.

## Infrastructure<sup>23</sup>

### *Connectivity and Transportation*

The state-owned airport consists of a lighted gravel 5,000 feet long by 100 feet wide runway and a 4,000 feet long by 100 feet wide lighted gravel crosswind runway. It can accommodate up to the size of a Boeing 737 aircraft, and regular air services are provided. The airstrip serves as a point-of-transfer for flights to the Pacific side of the Alaska Peninsula. There is a natural boat harbor but no dock. A boat haul-out, a beach off-loading area, boat fuel sales, and marine storage facilities are available. Cargo from Seattle is delivered twice yearly by a Bureau of Indian Affairs (BIA)-chartered barge and is lightered and offloaded on the beach.

<sup>23</sup> See footnote 20.

Autos, ATVs, and snowmobiles are the local means of transportation. In June 2012, roundtrip airfare between Port Heiden and Anchorage was \$840.<sup>24</sup>

### *Facilities*<sup>25</sup>

Individual wells and septic tank systems are used by most homes in Port Heiden. The school operates its own well and treatment system. Thirty-one (31) of 37 occupied households are fully plumbed. The City provides septic pumping services and collects refuse three times a week. The permitted landfill is located 6.5 miles northeast of the community. Electricity is provided to the community by a diesel powerhouse operated by the City. Police services are provided by a local Village Public Safety Officer and state troopers stationed in Dillingham. Other community facilities include a city holding cell, city office building, high school gymnasium, and a school library. Telephone and internet service is available in Port Heiden, but no cable service providers operate locally.

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

The Bristol Bay Area Health Corporation operates the Port Heiden Clinic, which is a Community Health Aid Program site. There is a Port Heiden Volunteer Emergency Medical Service (EMS), and emergency services have coastal and air access, with emergency service provided by a health aide. The nearest hospitals are located in Dillingham and Kodiak.

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

The Meshik School in Port Heiden provides instruction to students from pre-school through 12<sup>th</sup> grade. In 2011, the school had 26 students and 3 teachers.

## **Involvement in North Pacific Fisheries**

### *History and Evolution of Fisheries*

Subsistence harvest has been important to residents of the Port Heiden area for thousands of years. Villages and fish camps were often located at mouths of streams for access to both fresh water and abundant salmon runs.<sup>28</sup> Subsistence activities remain important in the community today.<sup>29</sup> With regard to commercial harvest, fisheries in which Port Heiden residents were most engaged during the 2000-2010 period included salmon, herring, and halibut.

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<sup>24</sup> Airfare was obtained on the travel website <http://www.penair.com> for a round-trip ticket for travel from June 1 to June 8, 2012. Retrieved on November 21, 2011.

<sup>25</sup> Alaska Dept. of Comm. 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>26</sup> Ibid.

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

<sup>28</sup> Alaska Native Heritage Center. (n.d) *The Unangax & Alutiiq (Supiaq) People - Who We Are*. Retrieved January 4, 2012 from [http://www.alaskanative.net/en/main\\_nav/education/culture\\_alaska/unangax/](http://www.alaskanative.net/en/main_nav/education/culture_alaska/unangax/).

<sup>29</sup> See footnote 25.

Commercial salmon fisheries began in the Alaska Peninsula region in 1882, when canneries were constructed at Orzinski Bay and Thin Point Cove. Today, the Peninsula-Aleutian salmon fishery is managed by ADF&G. Port Heiden is located in the Northern District the Peninsula-Aleutian fishery.<sup>30</sup> Port Heiden residents also have access to the Bristol Bay salmon fishery to the east, and a majority of salmon permits held by Port Heiden residents between 2000 and 2010 were held in Bristol Bay set and drift gillnet salmon fisheries.

Commercial catch of herring for human consumption began in 1878 in Alaska, while harvest of herring for bait began around 1900, and herring sac roe fisheries developed in the late 1970s. The largest aggregation of herring in Alaska spawns along the northern shore of Bristol Bay, near the village of Togiak. During the 2000-2010 period, several Port Heiden residents held permits in Bristol Bay herring fisheries. On occasion, a herring sac roe fishery also occurs west of Port Heiden near Port Moller, when aerial surveys determine that a sufficient quantity of herring is present.<sup>31</sup> Herring fisheries are managed by ADF&G.

Commercial exploitation of halibut first extended into the Bering Sea region in 1928 after development of diesel engines, which allowed fishing vessels to undertake longer trips.<sup>32</sup> Pacific halibut fisheries are managed under the International Pacific Halibut Commission. Port Heiden is located in Pacific Halibut Regulatory Area 4E, as well as Federal Statistical and Reporting Area 512 and the Bering Sea Sablefish Regulatory Area.

In a survey conducted by the AFSC in 2011, community leaders reported that Port Heiden's annual population peak is "somewhat" driven by employment in the fishing sectors (e.g., processing plants, commercial fishing, subsistence fishing, recreation and sportfishing, and charter fishing). Port Heiden is a Community Development Quota (CDQ) eligible community and is represented by the Bristol Bay Economic Development Corporation (BBEDC).<sup>33</sup> Port Heiden is not eligible to participate in the Community Quota Entity Program.

### *Processing Plants*

According to ADF&G's 2010 Intent to Operate list, Port Heiden does not have a registered processing plant. In a survey conducted by the AFSC in 2011, community leaders reported that while Port Heiden does not have a fish processing plant, the community is trying to establish one. The nearest processing plant is located in Ugashik.

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<sup>30</sup> Clark, McGregor, Mecum, Krasnowski and Carroll. 2006. The Commercial Salmon Fishery in Alaska. *Alaska Fisheries Research Bulletin* 12(1):1-146. Alaska Dept. of Fish and Game. Retrieved January 4, 2012 from <http://www.adfg.alaska.gov/static/home/library/PDFs/afrb/clarv12n1.pdf>.

<sup>31</sup> Woodby, Doug, Dave Carlile, Shareef Siddeek, Fritz Funk, John H. Clark, and Lee Hulbert. 2005. *Commercial Fisheries of Alaska*. Alaska Dept. of Fish and Game, Special Publication No. 05-09. Retrieved December 29, 2011 from <http://www.adfg.alaska.gov/FedAidPDFs/sp05-09.pdf>.

<sup>32</sup> Thompson, William F. and Norman L. Freeman. 1930. *History of the Pacific Halibut Fishery*. Report of the International Fisheries Commission. Number 5. Retrieved June 1, 2012 from <http://www.iphc.int/publications/scirep/Report0005.pdf>.

<sup>33</sup> Western Alaska Community Development Association. (n.d.) *CDQ Entities*. Retrieved September 14, 2013 from <http://www.wacda.org/pages/cdq-entities.php>.

### *Fisheries-Related Revenue*

Overall, in 2010, the City of Port Heiden received \$11,734 from fisheries-related taxes and fees. This revenue came from the Shared Fisheries Business Tax. Table 3 shows the historical annual revenue for each of the fisheries-related categories.<sup>34</sup>

### *Commercial Fishing*

According to a survey conducted by the AFSC in 2011, community leaders reported that all local residents go to fish camps in Ugashik or Egegik to fish during the months of June and July. In addition, community leaders reported that Port Heiden does not have any docking or mooring facilities for permanent or transient vessels, and can only accommodate commercial fishing boats under 35 feet in length. In 2010, 14 Port Heiden residents held a total of 14 commercial fishing permits issued by the Commercial Fisheries Entry Commission (CFEC). Salmon permits made up 93% of the CFEC permits issued in 2010, compared to 67% in 2000. The majority of the salmon CFEC permits issued in 2010 were for the Bristol Bay drift gill net fishery, with the remainder issued for the Bristol Bay set gill net fishery. There was also one statewide halibut longline permit issued for vessels under 60 feet. Overall in 2010, 64% of the permits issued to residents of Port Heiden were actually fished, all of those in the salmon fishery. The halibut permit held in 2010 was not actively fished. It is also important to note that one set gillnet permit was held in the Peninsula-Aleutian salmon fishery from 2000 to 2002, but was not actively fished in these years.

In addition to CFEC permits, one License Limitation Program (LLP) permit was held each year from 2000 to 2010 in a federal crab fishery, but was not actively fished in any year during the period. No LLPs were held in federal groundfish fisheries and no Federal Fisheries Permits (FFP) were issued to Port Heiden residents between 2000 and 2010. Information about state and federal permits is presented in Table 4. While one individual held a quota share account, quota shares, and Individual Fishing Quota (IFQ) allotment in the federal halibut catch share fishery in 2000, no residents of Port Heiden held halibut quota share accounts between 2001 and 2010 (Table 6). In addition, no residents held quota share accounts in federal catch share fisheries for sablefish between 2000 and 2010 or crab between 2005 and 2010 (Table 7 and Table 8).

Those same years, there were no vessels landing catch in Port Heiden, though there were 20 licensed crew members. The number of crew license holders in Port Heiden remained relatively stable between 2000 and 2010, while the number of residents that were primary owners of fishing vessels showed a decreasing trend, declining from 23 in 2000 to 9 in 2010. The number of vessels homeported in Port Heiden followed a similar trend, declining from 19 in 2000 to 11 in 2010. In a survey conducted by the AFSC in 2011, community leaders reported that the community is home to the same amount of commercial fishing boats compared to five years ago. In the same survey, community leaders reported that Port Heiden does not participate in the fisheries management process in Alaska.

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<sup>34</sup> 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 City's financial statements.

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

Revenue source	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Raw fish tax <sup>1</sup>	\$16,098	\$16,098	\$16,098	\$7,775	\$7,775	\$7,500	n/a	n/a	n/a	n/a	n/a
Shared Fisheries Business Tax <sup>1</sup>	\$16,098	\$11,911	\$8,489	\$7,760	\$7,857	\$9,309	\$10,535	\$11,969	\$9,241	\$12,474	\$11,734
Fisheries Resource Landing Tax <sup>1</sup>	n/a	n/a	n/a	\$16	\$37	\$394	\$1,473	\$1,001	\$2,467	\$1,825	n/a
Fuel transfer tax <sup>2</sup>	n/a	n/a	n/a	n/a	n/a	n/a	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	n/a	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	n/a	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	n/a	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	n/a	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	n/a	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	n/a	n/a	n/a	n/a	n/a	\$0
Marine fuel sales tax <sup>3</sup>	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	\$0
<i>Total fisheries-related revenue<sup>4</sup></i>	<i>\$73,086</i>	<i>\$28,009</i>	<i>\$24,587</i>	<i>\$15,551</i>	<i>\$15,670</i>	<i>\$17,203</i>	<i>\$12,008</i>	<i>\$12,971</i>	<i>\$11,708</i>	<i>\$14,300</i>	<i>\$11,734</i>
<i>Total municipal revenue<sup>5</sup></i>	<i>\$565,031</i>	<i>\$542,604</i>	<i>\$305,446</i>	<i>\$369,247</i>	<i>\$883,050</i>	<i>\$277,794</i> *	<i>\$873,138</i>	<i>\$755,142</i>	<i>\$549,402</i>	<i>\$635,259</i>	<i>\$989,463</i>

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

\* This number reflects the year's budget estimate rather than the total reported in the City's certified financial statement.

<sup>1</sup> Alaska Dept. of Comm. and Econ. Dev. (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 Dept. of Comm. 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 revenue sources in the previous rows.

<sup>5</sup> Total municipal revenue represents the total revenue that the City reports each year in its financial statements. Alaska Dept. of Comm. 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, Port Heiden: 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	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Total permit holders	0	0	0	0	0	0	0	0	0	0	0
Crab (LLP) <sup>1</sup>	Total permits	1	1	1	1	1	1	1	1	1	1	1
	Active permits	0	0	0	0	0	0	0	0	0	0	0
	% of permits fished	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Total permit holders	1	1	1	1	1	1	1	1	1	1	1
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	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	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	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	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	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Total permit holders	0	0	0	0	0	0	0	0	0	0	0
Halibut (CFEC) <sup>2</sup>	Total permits	4	0	0	1	2	2	1	1	1	1	1
	Fished permits	0	0	0	1	1	1	1	1	1	1	0
	% of permits fished	0%	0%	0%	100%	50%	50%	100%	100%	100%	100%	0%
	Total permit holders	4	0	0	1	2	2	1	1	1	1	1
Herring (CFEC) <sup>2</sup>	Total permits	7	1	2	2	2	2	1	1	1	0	0
	Fished permits	1	1	2	1	0	0	0	0	0	0	0
	% of permits fished	14%	100%	100%	50%	0%	0%	0%	0%	0%	0%	0%
	Total permit holders	6	1	2	2	2	2	1	1	1	0	0

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Table 4 cont'd. Permits and Permit Holders by Species, Port Heiden: 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	0	0	0	0	0	0	0
	Fished permits	0	0	0	0	0	0	0	0	0	0	0
	% of permits fished	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Total permit holders	0	0	0	0	0	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	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	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	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	Total permit holders	0	0	0	0	0	0	0	0	0	0	0
Salmon (CFEC) <sup>2</sup>	Total permits	22	21	20	17	17	17	15	14	12	12	13
	Fished permits	18	14	11	12	12	15	15	13	11	9	9
	% of permits fished	82%	67%	55%	71%	71%	88%	100%	93%	92%	75%	69%
	Total permit holders	21	21	18	18	20	22	18	15	13	12	14
<i>Total CFEC Permits<sup>2</sup></i>	<i>Permits</i>	<i>33</i>	<i>22</i>	<i>22</i>	<i>20</i>	<i>21</i>	<i>21</i>	<i>17</i>	<i>16</i>	<i>14</i>	<i>13</i>	<i>14</i>
	<i>Fished permits</i>	<i>19</i>	<i>15</i>	<i>13</i>	<i>14</i>	<i>13</i>	<i>16</i>	<i>16</i>	<i>14</i>	<i>12</i>	<i>10</i>	<i>9</i>
	<i>% of permits fished</i>	<i>58%</i>	<i>68%</i>	<i>59%</i>	<i>70%</i>	<i>62%</i>	<i>76%</i>	<i>94%</i>	<i>88%</i>	<i>86%</i>	<i>77%</i>	<i>64%</i>
	<i>Permit holders</i>	<i>21</i>	<i>21</i>	<i>18</i>	<i>18</i>	<i>20</i>	<i>22</i>	<i>18</i>	<i>15</i>	<i>13</i>	<i>12</i>	<i>14</i>

<sup>1</sup>National Marine Fisheries Service. 2011. Data on License Limitation Program, 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 Port Heiden: 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 Port Heiden <sup>2</sup>	Total Net Pounds Landed In Port Heiden <sup>2,5</sup>	Total Ex-Vessel Value Of Landings In Port Heiden <sup>2,5</sup>
2000	22	0	0	23	19	0	0	\$0
2001	24	0	0	16	16	0	0	\$0
2002	14	0	0	15	15	0	0	\$0
2003	12	0	0	16	15	0	0	\$0
2004	15	0	0	12	10	0	0	\$0
2005	21	0	0	14	14	0	0	\$0
2006	19	0	0	14	12	0	0	\$0
2007	13	0	0	12	10	0	0	\$0
2008	15	0	0	11	9	0	0	\$0
2009	19	0	0	9	8	0	0	\$0
2010	20	0	0	9	11	0	0	\$0

*Note: Cells showing – indicate that the data are considered confidential.*

<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 in Port Heiden: 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	1	1,723	213
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 Port Heiden: 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 Port Heiden: 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 Port Heiden: 2000-2010.

	<i>Total Net Pounds<sup>1</sup></i>										
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
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</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>										
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
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</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>

*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 pounds refers to the landed weight recorded in fish tickets.

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

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Table 10. Landed Pounds and Ex-vessel Revenue, by Species, by Port Heiden 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	--	--	--	--	--	--	--	--	--	--	--
Other Groundfish	--	--	--	--	--	--	--	--	--	--	--
Other Shellfish	--	--	--	--	--	--	--	--	--	--	--
Pacific Cod	--	--	--	--	--	--	--	--	--	--	--
Pollock	--	--	--	--	--	--	--	--	--	--	--
Sablefish	--	--	--	--	--	--	--	--	--	--	--
Salmon	677,752	367,143	650,719	426,273	1,003,202	890,465	1,278,771	1,290,415	738,971	1,010,028	719,060
<i>Total<sup>2</sup></i>	<i>677,752</i>	<i>367,143</i>	<i>650,719</i>	<i>426,273</i>	<i>1,003,202</i>	<i>890,465</i>	<i>1,278,771</i>	<i>1,290,415</i>	<i>738,971</i>	<i>1,010,028</i>	<i>719,060</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	--	--	--	--	--	--	--	--	--	--	--
Other Groundfish	--	--	--	--	--	--	--	--	--	--	--
Other Shellfish	--	--	--	--	--	--	--	--	--	--	--
Pacific Cod	--	--	--	--	--	--	--	--	--	--	--
Pollock	--	--	--	--	--	--	--	--	--	--	--
Sablefish	--	--	--	--	--	--	--	--	--	--	--
Salmon	\$416,021	\$149,073	\$315,638	\$215,662	\$513,256	\$550,450	\$849,593	\$847,845	\$537,742	\$802,587	\$678,087
<i>Total<sup>2</sup></i>	<i>\$416,021</i>	<i>\$149,073</i>	<i>\$315,638</i>	<i>\$215,662</i>	<i>\$513,256</i>	<i>\$550,450</i>	<i>\$849,593</i>	<i>\$847,845</i>	<i>\$537,742</i>	<i>\$802,587</i>	<i>\$678,087</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 pounds refers to the landed weight recorded in fish tickets.

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

*Recreational Fishing*

No active sport fish guide businesses or licensed sport fish guides were reported to have been present in Port Heiden between 2000 and 2010. However, a number of sportfishing licenses were sold in Port Heiden each year during this period. In addition, residents of Port Heiden were reported to purchase sportfishing licenses (irrespective of point of sale). According to the ADF&G Statewide Harvest Survey,<sup>35</sup> Chinook salmon and coho salmon are caught by private anglers in Port Heiden. Given the lack of sportfishing businesses, no kept/released log book data were reported for sportfishing charters out of Ivanof Bay between 2000 and 2010.<sup>36</sup>

Port Heiden is located within Alaska Sport Fishing Survey Area R – Alaska Peninsula / Aleutian Islands. Information is available about both saltwater and freshwater sportfishing activity at this regional scale. Between 2000 and 2010, sportfishing activity in this region varied considerably. For saltwater sportfishing, non-Alaska resident angler days fished varied between 1,603 and 4,126 during this period, while Alaska resident angler days fished varied between 3,261 and 12,721 days. Alaska resident anglers fished consistently more saltwater days than non-Alaska resident anglers during this period. In contrast, non-Alaska resident anglers fished more angler days in freshwater in the Alaska Peninsula / Aleutian Islands region on average (18,462 per year on average) than Alaska resident anglers (15,290 per year on average). This information about the sportfishing sector in and near Port Heiden is also displayed in Table 11.

Table 11. Sport Fishing Trends, Port Heiden: 2000-2010.

<b>Year</b>	<b>Active Sport Fish Guide Businesses<sup>1</sup></b>	<b>Sport Fish Guide Licenses<sup>1</sup></b>	<b>Sport Fishing Licenses Sold to Residents<sup>2</sup></b>	<b>Sport Fishing Licenses Sold in Port Heiden<sup>2</sup></b>
2000	0	0	37	66
2001	0	0	23	36
2002	0	0	21	36
2003	0	0	23	26
2004	0	0	18	20
2005	0	0	15	29
2006	0	0	14	11
2007	0	0	10	8
2008	0	0	15	16
2009	0	0	16	12
2010	0	0	10	7

<sup>35</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/sportfishingsurvey/> (Accessed September 2011).

<sup>36</sup> Alaska Department of Fish and Game. 2011. Alaska sport fish charter logbook database, 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.]

Table 11 cont'd. Sport Fishing Trends, Port Heiden: 2000-2010.

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	1,664	8,870	17,749	27,227
2001	1,760	3,939	16,840	14,350
2002	4,126	5,210	15,865	18,417
2003	1,603	4,333	16,557	11,878
2004	1,948	12,721	18,813	19,360
2005	3,585	5,129	14,130	12,038
2006	2,809	4,392	22,323	8,830
2007	2,588	9,356	20,371	15,870
2008	3,436	4,298	21,797	10,207
2009	3,488	3,815	18,996	16,020
2010	2,036	3,261	19,643	13,992

<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/sportfishingsurvey/> (Accessed September 2011).

### *Subsistence Fishing*

Many residents of Port Heiden supplement their incomes and diet with subsistence resources.<sup>37</sup> According to a survey conducted by the AFSC in 2011, community leaders reported that fish, moose, and berries are the three most important subsistence resources to the residents of Port Heiden.

No information is available from ADF&G between 2000 and 2010 regarding the percentage of Port Heiden households participating in the harvest of various subsistence resources or per capita subsistence harvest (Table 12). However, data were available from management agencies regarding subsistence harvest of salmon, halibut, and some species of marine mammals during this period.

Between 2000 and 2008, the number of subsistence salmon permits issued to Port Heiden households remained between two and three per year through 2006. In 2008, this number jumped dramatically to 29 permits issued. Total salmon harvest in 2008 was also much higher as a result of the increase in permits issued. Over the decade, the most heavily utilized salmon species appear to have been sockeye, coho, and Chinook, while smaller harvests of chum and pink were also reported in some years.

<sup>37</sup> Alaska Dept. of Comm. 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).

A small number of Subsistence Halibut Registration Certificates (SHARC) were issued to Port Heiden residents between 2003 and 2010. No SHARC card was reported to have been actively fished during this period, and no data were available regarding total pounds of halibut harvested that year (Table 14).

The species of marine mammal that appeared to be harvested most consistently by Port Heiden residents between 2000 and 2010 was harbor seal. For years in which data were available, the average harbor seal harvest was 20 animals. In addition, small numbers of sea otter and walrus were reported harvested in several years (Table 15).

Table 12. Subsistence Participation by Household and Species, Port Heiden: 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, Port Heiden: 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	3	2	6	n/a	21	n/a	n/a	n/a	n/a
2001	3	3	64	10	50	n/a	132	n/a	n/a
2002	3	3	120	6	50	n/a	34	n/a	n/a
2003	3	3	101	6	40	n/a	7	n/a	n/a
2004	3	3	60	n/a	n/a	n/a	80	n/a	n/a
2005	3	2	n/a	n/a	n/a	n/a	375	n/a	n/a
2006	2	2	n/a	n/a	30	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	29	29	182	62	813	33	1,023	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, Port Heiden: 2003-2010.

Year	SHARC Issued	SHARC Cards Fished	SHARC Halibut Lbs Harvested
2003	n/a	n/a	n/a
2004	1	n/a	n/a
2005	1	n/a	n/a
2006	1	n/a	n/a
2007	1	n/a	n/a
2008	2	n/a	n/a
2009	2	n/a	n/a
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, Port Heiden: 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	4	n/a	n/a	n/a	20	n/a
2001	n/a	n/a	n/a	n/a	n/a	10	n/a
2002	n/a	n/a	n/a	n/a	n/a	30	n/a
2003	n/a	n/a	1	n/a	n/a	10	n/a
2004	n/a	n/a	n/a	n/a	n/a	20	n/a
2005	n/a	n/a	n/a	n/a	n/a	13	n/a
2006	n/a	n/a	n/a	n/a	n/a	17	n/a
2007	n/a	10	n/a	n/a	n/a	24	n/a
2008	n/a	n/a	n/a	n/a	n/a	36	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.