The Subsistence Harvest of Harbor Seals and Sea Lions by Alaska Natives in 2008

Alaska Department of Fish and Game, Division of Subsistence and

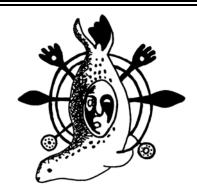
Alaska Native Harbor Seal Commission

Alaska Department of Fish and Game Division of Subsistence

October 2009

Alaska Native Harbor Seal Commission





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| | | General | | Measures (fisheries) | |
|--------------------------------|--------------------|-------------------------------|---------------|-------------------------------|-------------------------------|
| | | all commonly-accepted | | fork length | FL |
| Weights and measures (met | ric) | abbreviations; e.g., Mr., I | Mrs., AM, | mideye-to-fork | MEF |
| centimeter | cm | PM, etc. | | mideye-to-tail-fork | METF |
| deciliter | dL | all commonly-accepted p | rofessional | standard length | SL |
| gram | g | titles; e.g., Dr., Ph.D., R.I | V., etc. | total length | TL |
| hectare | ha | Alaska Administrative Code | AAC | total longin | |
| kilogram | kg | Alaska Department of | | Mathematics, statistics | |
| kilometer | km | Fish and Game | ADF&G | all standard mathematical s | ians |
| liter | L | at | @ | symbols and abbreviati | |
| meter | m | compass directions: | | alternate hypothesis | H _A |
| milliliter | mL | east | E | approximately | ~ ~ |
| millimeter | mm | north | N | base of natural logarithm | e |
| | | south | S | catch per unit effort | CPUE |
| Weights and measures (Eng | lish) | west | W | coefficient of variation | CV |
| cubic feet per second | ft ³ /s | copyright | © | common test statistics | $(F, t, \chi^2, \text{etc.})$ |
| foot | ft | corporate suffixes: | _ | confidence interval | $(F, l, \chi, \text{etc.})$ |
| gallon | gal | Company | Co. | | |
| inch | in | Corporation | Corp. | correlation coefficient (mult | -F/ |
| mile | mi | Incorporated | Inc. | correlation coefficient (simp | , |
| nautical mile | nmi | Limited | Ltd. | covariance | cov |
| ounce | OZ | District of Columbia | D.C. | degree (angular) | - |
| | lb | et alii (and others) | et al. | degrees of freedom | df |
| pound | | et cetera (and so forth) | etc. | expected value | E |
| quart | qt | exempli gratia (for example) | | greater than | > |
| yard | yd | Federal Information Code | e.g. FIC | greater than or equal to | ≥ |
| TD* | | | i.e. | harvest per unit effort | HPUE |
| Time and temperature | , | id est (that is) | | less than | < |
| day | d | latitude or longitude | lat. or long. | less than or equal to | ≤ |
| degrees Celsius | °C | monetary symbols (U.S.) | \$,¢ | logarithm (natural) | ln |
| degrees Fahrenheit | °F | months (tables and figures): | first | logarithm (base 10) | log |
| degrees kelvin | K | | (Jan,,Dec) | logarithm (specify base) | log_{2} , etc. |
| hour | h | registered trademark | тм | mean | \overline{x} |
| minute | min | trademark | | minute (angular) | ' |
| second | S | United States (adjective) | U.S. | not significant | NS |
| | | United States of America (not | , | null hypothesis | H_{O} |
| Physics and chemistry | | | States Code | percent | % |
| all atomic symbols | | U.S. state use two-letter a | | plus or minus | ± |
| alternating current | AC | (e.g | g., AK, WA) | population size | N |
| ampere | A | | | probability | P |
| calorie | cal | | | sample size | n |
| direct current | DC | | | second (angular) | " |
| hertz | Hz | | | standard deviation | σ or s |
| horsepower | hp | | | standard error (of the mean) | $s \bar{x}$ |
| hydrogen ion activity (negativ | ve log of) pH | | | type I error probability | P_a |
| parts per million | ppm | | | type II error probability | P_{b} |
| parts per thousand | ppt, ‰ | | | variance | σ^2 or s^2 |
| volts | V | | | | |
| | | | | | |

watts

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The Subsistence Harvest of Harbor Seals and Sea Lions by Alaska Natives in 2008

Technical Paper No. 347

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ABSTRACT

This report describes the subsistence takes of harbor seals *Phoca vitulina* and Steller sea lions *Eumetopias jubatus* by Alaska Natives in 2008, including quantity, seasons, geographic distribution, and age and sex of the harvest. Information is summarized at the state, region, and community levels and is compared with annual takes since 1992. The research was conducted by the Alaska Native Harbor Seal Commission and the Alaska Department of Fish and Game Division of Subsistence in cooperation with the Aleut Marine Mammal Commission, Bristol Bay Native Association, and Southeast Alaska Intertribal Fish and Wildlife Commission, under contract with the National Marine Fisheries Service. Information is presented for 63 coastal communities, based on interviews with 1,360 households in 62 communities in this study, and a separate in-season monitoring program for sea lions by the Aleut Community of St. Paul Island. Local researchers conducted most of the household interviews as part of regional research networks. The project received generous support from leaders of a number of Native governments and associations.

During 2008, the estimated subsistence take of harbor seals by Alaska Natives was 1,462 seals, with a 95% confidence range of between 1,196 to 1,980 seals. Of the take, 13.8% (202 seals) were struck and lost and 86.2% (1,260 seals) were harvested. The 2008 take of harbor seals came from the following stocks: Southeast Alaska stock (594 seals), Gulf of Alaska stock (680 seals), and Bering Sea stock (188 seals). Harbor seals were taken in 51 of 63 surveyed communities. Hunters reported taking males over females by 3.0 to 1 and adults (73.7%) over juveniles (20.4%) or pups (5.8%). The 2008 take of harbor seals was the second lowest recorded since 1992—2,854 (1992), 2,736 (1993), 2,621 (1994), 2,742 (1995), 2,741 (1996), 2,546 (1997), 2,597 (1998), 2,224 (2000), 2,031 (2001), 1,834 (2002), 2,030 (2003), 1,822 (2004), 1,696 (2005), 1,644 (2006), and 1,428 (2007). Declining takes of harbor seals are associated with fewer seal hunters, particularly in the Southeast Region.

During 2008, the estimated subsistence take of sea lions by Alaska Natives was 146 sea lions, with a 95% confidence range of between 106 to 224 sea lions. Of the take, 20.3% (30 sea lions) were struck and lost and 79.7% (116 sea lions) were harvested. Sea lions were taken in 18 of 63 surveyed communities. Hunters reported taking males over females by about 2.9 to 1 and juveniles (57.6%) over adults (42.4%) or pups (0.0%). Sea lion takes sharply declined from 1992 to 1995 with takes leveling off between 1996 and 2007—549 (1992), 487 (1993), 416 (1994), 339 (1995), 186 (1996), 164 (1997), 178 (1998), 171 (2000), 198 (2001), 185 (2002), 212 (2003), 216 (2004), 218 (2005), 186 (2006), and 217 (2007). The sea lion take in 2008 was the lowest recorded since 1992. Declines in sea lion takes are associated with fewer hunters of sea lions, which is probably linked to local sea lion scarcities.

ACKNOWLEDGEMENTS

This project would not have been possible without tremendous local support in every community where we conducted the survey. We wish to thank each tribal council, city council, and all of the regional Native organizations that facilitated our work. Heartfelt thanks are owed to the many elders and local marine mammal experts who allowed us to interview them at length about their lifelong uses and observations of sea lions and harbor seals. In addition, we are deeply indebted to the many hundreds of hunters who volunteered to report their subsistence harvests to our staff and to locally-hired research assistants.

The 52 local researchers who conducted household interviews deserve to be recognized individually for their high level of interest and work.

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INTRODUCTION

This report describes the subsistence takes of harbor seals *Phoca vitulina* and Steller sea lions *Eumetopias jubatus* by Alaska Natives during calendar year 2008. The report covers the sixteenth year documenting subsistence takes of harbor seals and sea lions in Alaska. Subsistence takes have been documented from 1992 through 2008, with no surveys in 1999 (Wolfe and Mishler 1993, 1994, 1995, 1996, 1997, 1998, Wolfe and Hutchinson-Scarbrough 1999, Wolfe 2001, Wolfe et al. 2002, 2003, 2004, 2005, 2006, Wolfe et al. 2008, 2009). The research for calendar year 2008 was a collaborative effort between the Alaska Native Harbor Seal Commission (ANHSC) and the Alaska Department of Fish and Game (ADF&G) Division of Subsistence, in cooperation with the Aleut Marine Mammal Commission (AMMC), the Bristol Bay Native Association (BBNA), and the Southeast Alaska Intertribal Fish and Wildlife Commission (SAIFWC), under contract with the National Marine Fisheries Service (NMFS) of the National Oceanic and Atmospheric Administration (NOAA). The research was conducted in cooperation with tribal governments in the study communities (Table 1).

This report provides information on the subsistence takes of harbor seals and sea lions during 2008, including size, seasons, geographic distributions, and age and sex of harvested animals. Information on subsistence uses derives from systematic interviews with marine mammal hunters in 62 communities (Figure 1, Table 2). Information was collected principally by local researchers in each community working within regional research networks. The information for 2008 from an additional community, St. Paul, derives from an in-season harvest monitoring program conducted by the Aleut Community of St. Paul, as reported in Jones (2009).

Table 1.-Community organizations contacted during the project, 1992–2008.

| Community | Government/Organization | Community | Government/Organization |
|----------------------|--|---------------------------|--|
| Adak | Aleut Marine Mammal Commission | Larsen Bay | Larsen Bay Tribal Council |
| | Aleut Corporation | - | City of Larsen Bay |
| Akhiok | Akhiok Tribal Council | Levelock | Levelock Village Council |
| | City of Akhiok | Manokotak | Manokotak Village Council |
| Akutan | Akutan Traditional Village Council | Metlakatla | Council Annette Islands Reserve |
| | City of Akutan | | Metlakatla Indian Community |
| | Akutan Corporation | Naknek | Naknek Native Village Council |
| Aleknagik | Aleknagik Traditional Council | Nanwalek | Nanwalek Traditional Council |
| Anchorage | Cook Inlet Tribal Council | | English Bay Corporation |
| | Alaska Federation of Natives | | Nelson Lagoon Village Council |
| Angoon | City of Angoon | Newhalen | Newhalen Traditional Council |
| | Angoon Community Association | Nikolski | Nikolski IRA Council |
| Atka | Atka IRA Council | | Chaluka Corporation |
| 01 5 | City of Atka | Old Harbor | Old Harbor Tribal Council |
| Chenega Bay | Chenega IRA Council | | City of Old Harbor |
| Chignik Bay | Chignik Bay Traditional Village Council | Ouzinkie | Ouzinkie Native Corporation |
| | Chignik Lagoon Traditional Village Council | | Ouzinkie Tribal Council |
| Chignik Lake | Chignik Lake Traditional Village Council | D. I' | City of Ouzinkie |
| Clark's Point | Clark's Point Village Council | Pelican | Tlingit and Haida Indians of Pelican |
| Cordova | Traditional Village of Eyak | | Pelican Community Council |
| Craig | Shaan-Seet, Inc. | Dormavillo | City of Pelican Perryville Traditional Village Council |
| | City of Craig | Perryville | |
| Dillinghom | Craig Community Association Curyung Tribal Council | Petersburg Pilot Point | Petersburg Indian Association |
| Dillingham | , , | Port Graham | Pilot Point Traditional Council |
| Egegik False Pass | Egegik Traditional Council False Pass Tribal Council | FUIT GIAIIAIII | Port Graham Village Council Port Graham Corporation |
| raise rass | City of False Pass | Port Heiden | Port Heiden Native Council |
| Haines | Chilkat Indian Association | Port Lions | Port Lions Tribal Council |
| Hoonah | Hoonah Indian Association | I OIT LIOIIS | City of Port Lions |
| Hoonan | Hoonah Traditional Council | Saint George | Saint George Traditional IRA Council |
| Hydaburg | Haida Corporation | Can't Occingo | Saint George Tanaq Corporation |
| riyaabarg | Hydaburg Cooperative Association | | City of Saint George |
| | City of Hydaburg | Saint Paul | Tribal Government of Saint Paul |
| Iliamna | Iliamna Village Council | Cant radi | City of Saint Paul |
| Ivanof Bay | Ivanof Bay Traditional Village Council | Sand Point | Unga Tribal Council |
| Juneau | Tlingit and Haida Central Council | | Qagan Tayagugin Tribe of Sand Point |
| | Sealaska | | City of Sand Point |
| | Auke Tribe Council | Saxman | Organized Village of Saxman |
| | Alaska Native Brotherhood/Sisterhood | | City of Saxman |
| | Douglas Indian Association | Seldovia | Seldovia Village Tribe |
| Kake | Organized Village of Kake | Seward | Qutekcak Native Tribe |
| | City of Kake | Sitka | Sitka Tribe of Alaska |
| Karluk | Karluk IRA Council | | Alaska Native Brotherhood |
| Kenai | Kenaitze Indian Tribe IRA | South Naknek | South Naknek Village Council |
| | Cook Inlet Region, Inc. | Tatitlek | Tatitlek IRA Council |
| Ketchikan | Ketchikan Indian Community | Togiak | Togiak Traditional Council |
| King Cove | Agdaagux Tribe of King Cove | Twin Hills | Twin Hills Village Council |
| | Belkofsky Village Council | Tyonek | Native Village of Tyonek |
| | City of King Cove | Unalaska | Qawalangin Tribal Council |
| King Salmon | King Salmon Village Council | Valdez | Valdez Native Association |
| Klawock | Klawock Cooperative Association | Wrangell | Wrangell Cooperative Association |
| | Klawock Heenya Corporation | Yakutat | Yakutat Tlingit Tribe |
| Klukwan | Chilkat Indian Village | | Yak-Tat Kwaan |
| Kodiak City | Kodiak Tribal Council | | Alaska Native Brotherhood/ |
| | Kodiak Area Native Association | | Alaska Native Sisterhood |

The geographic area covered by this report was defined as the Alaska coastal waters south of Cape Newenham, including the Pribilof Islands. This area corresponds with the general distributions of harbor seals and sea lions in Alaska (Figures 2 and 3, from Burns et al. (1985). The use of harbor seals and sea lions by Alaska Natives for food and raw materials has a long tradition in this part of Alaska. The Alaska Native groups using harbor seals include the Aleut of the Aleutian Islands; the Alutiiq and Eyak of the Pacific Gulf coast; the Tlingit, Haida, and Tsimshian of the Southeast archipelago; and the Yup'ik of Southwest Alaska. The Dena'ina of Cook Inlet occasionally use harbor seals. The primary users of sea lions are the Aleut of the Aleutian and Pribilof islands and the Alutiiq of certain communities of Kodiak Island and the Gulf of Alaska. Sea lions are used occasionally by Tlingit, Haida, Tsimshian, and Yup'ik groups. Subsistence products derived from harbor seals and sea lions include oil, meat, and skins (Wolfe and Mishler 1993).

This report is organized in several sections. The "Methodology" section describes the methods used to collect information. Two sections ("The Subsistence Take of Harbor Seals in 2008" and "The Subsistence Take of Sea Lions in 2008") present information on the statewide takes of harbor seals and sea lions, summarized by community and region. In the "Discussion" section are interpretations of the 2008 survey year, including summaries of harvest patterns since 1992, derived from previous survey years. Appendix A contains a copy of the survey instrument used in household interviews with marine mammal hunters. Appendix B contains regional summaries of the subsistence takes of harbor seals and sea lions. Appendix C contains materials on the subsistence takes of harbor seals and sea lions by community.

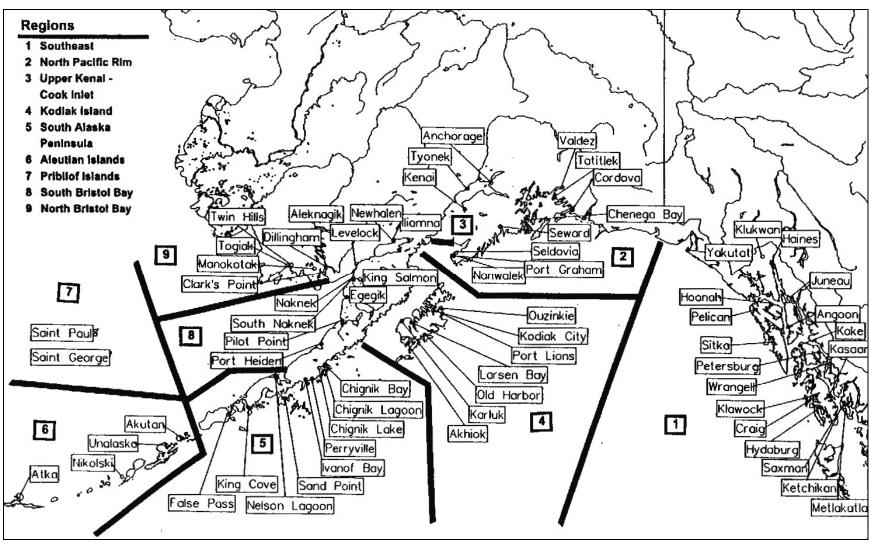


Figure 1.–Map of study area and regions.

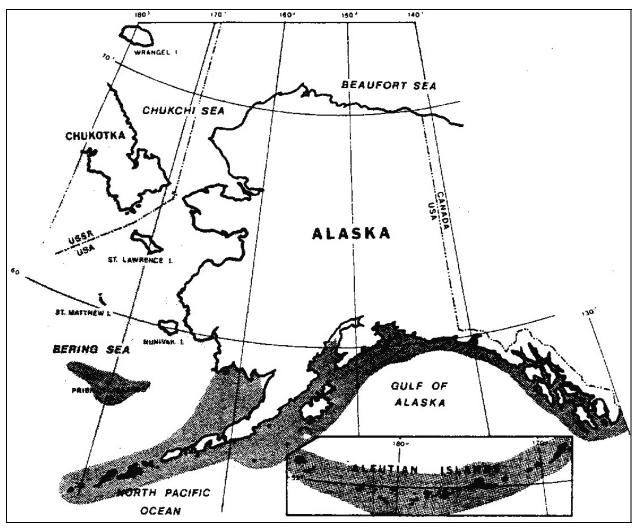


Figure 2.—General distribution of Stellar sea lions *Eumetopias jubatus* in Alaska. *Source (Burns et al. 1985).*

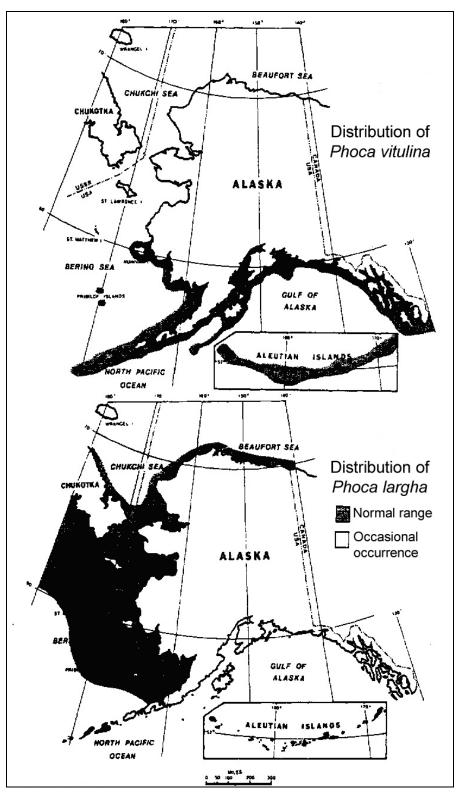


Figure 3.—General distribution of harbor seals *Phoca vitulina* and spotted seals *Phoca largha* in Alaska.

Source (Burns et al. 1985)

METHODOLOGY

This report includes information on the subsistence takes of harbor seals and sea lions in 63 coastal communities (Table 2). Information for 62 communities was collected in this project through interviews with persons in 1,360 Alaska Native households. In addition, the report includes information about subsistence takes of sea lions by hunters at St. Paul collected inseason through separate projects run by the Ecosystem Conservation Office of the Aleut Community of St. Paul Island, as reported in Jones (2009) (for 2008), Lestenkof et al. (2008) (for 2007), Lestenkof et al. (2007) (for 2006), Lestenkof and Zavadil (2006) (for 2005), and Zavadil et al. (*Unpublished* [2006]) (for 2000 through 2004). See also Lestenkof and Zavadil (2001); Lestenkof et al. (2003); and Zavadil et al. (*Unpublished* [2004]).

In this Division of Subsistence study, respondents were asked to recall information about their household's uses of harbor seals and sea lions during the previous year. The survey instrument administered in household interviews was similar to one used since 1992, developed in consultation with the Rural Alaska Community Action Program (RurAL CAP) and the Indigenous People's Council for Marine Mammals (IPCoMM) (see Appendix A). Hunters and household heads were asked to recall the numbers of harbor seals and sea lions taken by household members during each month over the past year. The survey contained questions that pertained to harvest numbers, struck and lost animals, age of animals, and sex of animals. The survey also asked whether the household used, harvested, received, or gave away harbor seals or sea lions during the last year. Interviews were conducted by 52 local researchers hired and trained as part of the project. Surveys were administered in January–March 2009 to cover the period from January through December 2008.

Table 2.-Sampling methodology by community, harbor seal and sea lion surveys, 2008.

| Community | Region and | 2000 U.S. Census Estimated Native | Type of | Identified Household | Surveyed | Percentage Households |
|--|--------------------|--------------------------------------|----------------|-------------------------|------------|--------------------------|
| Angoon 494 Chain Referral 40 40 100.0% ** Craig 432 Chain Referral 21 10 47.6% Haines 335 Chain Referral 13 10 76.9% Hoonah 597 Chain Referral 40 38 95.0% Hoonah 597 Chain Referral 16 10 62.5% Juneau 5,084 Chain Referral 16 10 62.5% Xake 530 Chain Referral 16 12 75.0% Kake 530 Chain Referral 10 6 60.0% Ketchikan 1,802 Chain Referral 25 25 25 100.0% Ketchikan 123 Chain Referral 29 23 79.3% ** Klukwan 123 Chain Referral 8 3 3 37.5% Pelican 42 Chain Referral 30 27 90.0% Saxman 302 Chain Referral 30 27 90.0% Saxman 302 Chain Referral 8 5 62.5% ** Wrangell 550 Chain Referral 8 5 62.5% ** Wrangell 550 Chain Referral 10 6 60.0% Yakutat 375 Chain Referral 47 40 85.1% Region Total 14,070 373 313 83.9% 2. NORTH PACIFIC RIM Chenega Bay 67 Census 15 7 46.7% Cordova 368 Chain Referral 8 8 100.0% Nanwalek 165 Census 47 46 97.9% Seldovia 66 Chain Referral 7 2 28.6% Nanwalek 165 Census 47 46 97.9% Seldovia 66 Chain Referral 7 2 28.6% Port Graham 151 Census 44 32 72.7% Seldovia 66 Chain Referral 7 2 28.6% Port Graham 151 Census 44 32 72.7% Seldovia 66 Chain Referral 7 2 28.6% Valdez 410 Chain Referral 6 1 16.7% Region Total 1,910 153 119 77.8% 3. UPPER KENAI-COOK INLET Anchorage 26,995 Chain Referral 34 19 55.9% Valdez 410 Chain Referral 6 1 16.7% Region Total 1,910 153 119 77.8% 3. UPPER KENAI-COOK INLET Anchorage 26,995 Chain Referral 34 19 55.9% Valdez 410 Chain Referral 6 1 16.7% Region Total 2,9670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% Karluk 26 Census 14 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Couzinkie 197 Chain Referral 54 25 46.3% Couzinkie 197 Chain Referral 29 28 86.6% Ouzinkie 197 Chain Referral 29 28 86.6% Ouzinkie 197 Chain Referral 15 5 15 100.0% | | Population | Design | Universe ' | Households | Surveyed |
| ** Craig | | | | | | |
| Haines | - | | | _ | _ | |
| Hoonah 597 | | | | | | |
| ** Hydaburg 342 Chain Referral 16 10 62.5% Juneau 5,084 Chain Referral 16 12 75.0% Kake 530 Chain Referral 16 12 75.0% Ketchikan 1,802 Chain Referral 25 25 100.0% Ketchikan 1,802 Chain Referral 10 6 60.0% Klawock 496 Chain Referral 29 23 79.3% ** Klukwan 123 Chain Referral 8 3 3 37.5% Pelican 42 Chain Referral 5 4 80.0% Petersburg 388 Chain Referral 30 27 90.0% Saxman 302 Chain Referral 8 5 62.5% Slitka 2,178 Chain Referral 8 5 62.5% Slitka 2,178 Chain Referral 10 6 60.0% Yakutat 375 Chain Referral 10 6 60.0% Yakutat 375 Chain Referral 47 40 85.1% Region Total 14,070 373 313 83.9% ** Wrangell 550 Chain Referral 47 40 85.1% Region Total 14,070 373 313 83.9% ** Octobro Animal Anima | | | | _ | _ | |
| Juneau 5,084 Chain Referral 16 12 75,0% | | | | _ | | |
| Kake 530 Chain Referral 25 25 100.0% Ketchikan 1,802 Chain Referral 10 6 60.0% Klawock 496 Chain Referral 29 23 79.3% ** Klukwan 123 Chain Referral 8 3 37.5% Pelican 42 Chain Referral 5 4 80.0% Petersburg 388 Chain Referral 30 27 90.0% Saxman 302 Chain Referral 8 5 62.5% Sitka 2,178 Chain Referral 10 6 60.0% Yakutat 375 Chain Referral 47 40 85.1% Region Total 14,070 373 313 83.9% 2. NORTH PACIFIC RIM Cordova 368 Chain Referral 8 8 100.0% Cordova 368 Chain Referral 8 8 100.0% Nanwalek 165 Census 47 | · · | | | _ | _ | |
| Ketchikan | | | | _ | | |
| Klawock | | | | | | |
| ** Klukwan 123 Chain Referral 8 3 3 37.5% Pelican 42 Chain Referral 5 4 80.0% Petersburg 388 Chain Referral 5 4 80.0% Petersburg 388 Chain Referral 30 27 90.0% Saxman 302 Chain Referral 8 5 62.5% Sitka 2,178 Chain Referral 55 5 54 98.2% ** Wirangell 550 Chain Referral 10 6 60.0% Yakutat 375 Chain Referral 47 40 85.1% Region Total 14,070 373 313 83.9% ** Wirangell 550 Chain Referral 47 40 85.1% Region Total 14,070 373 313 83.9% ** Wirangell 550 Chain Referral 47 40 85.1% Region Total 14,070 40 85.1% Region Total 14,070 40 85.1% Region Total 14,070 40 85.1% Region Total 40,00% Nanwalek 165 Census 15 7 46.7% Cordova 368 Chain Referral 8 8 8 100.0% Nanwalek 165 Census 47 46 97.9% Port Graham 151 Census 44 32 72.7% Seldovia 66 Chain Referral 4 3 75.0% Seward 592 Chain Referral 4 3 75.0% Seward 592 Chain Referral 7 2 28.6% Tattlek 91 Census 22 20 90.9% Valdez 410 Chain Referral 6 1 16.7% Region Total 1,910 153 119 77.8% Region Total 1,910 153 119 77.8% Region Total 2,120 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 5 1 20.0% Region Total 29,670 56 30 53.6% Region Total 29,670 56 30 53.6% Chain Referral 54 25 46.3% Region Total 29.670 56 29 29 28 96.6% Couzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 15 100.0% | | | | | | |
| Petican | | | | _ | _ | |
| Petersburg 388 | Makwan | | | | | |
| Saxman 302 Chain Referral 8 5 62.5% Sitka 2,178 Chain Referral 55 54 98.2% ** Wrangell 550 Chain Referral 10 6 60.0% Yakutat 375 Chain Referral 47 40 85.1% Region Total 14,070 373 313 83.9% 2. NORTH PACIFIC RIM Chenega Bay 67 Census 15 7 46.7% Cordova 368 Chain Referral 8 8 100.0% Nanwalek 165 Census 47 46 97.9% Port Graham 151 Census 44 32 72.7% Seldovia 66 Chain Referral 4 3 75.0% Seward 592 Chain Referral 7 2 28.6% Tatitlek 91 Census 22 20 90.9% Valdez 410 Chain Referral 6 1 | | | | | | |
| Sitka 2,178 Chain Referral 55 54 98.2% *** Wrangell 550 Chain Referral 10 6 60.0% Yakutat 375 Chain Referral 47 40 85.1% Region Total 14,070 373 313 83.9% 2. NORTH PACIFIC RIM Chensus 15 7 46.7% Cordova 368 Chain Referral 8 8 100.0% Nanwalek 165 Census 47 46 97.9% Port Graham 151 Census 44 32 72.7% Seldovia 66 Chain Referral 4 3 75.0% Seward 592 Chain Referral 7 2 28.6% Tatitlek 91 Census 22 20 90.9% Valdez 410 Chain Referral 6 1 16.7% Region Total 1,910 153 119 55.9% Homer 371 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | |
| ** Wrangell 550 Chain Referral 10 6 60.0% Yakutat 375 Chain Referral 47 40 85.1% Region Total 14,070 373 313 83.9% 2. NORTH PACIFIC RIM Chenega Bay 67 Census 15 7 46.7% Cordova 368 Chain Referral 8 8 8 100.0% Nanwalek 165 Census 47 46 97.9% Port Graham 151 Census 44 32 72.7% Seldovia 66 Chain Referral 4 3 75.0% Seward 592 Chain Referral 7 2 28.6% Tattlek 91 Census 22 20 90.9% Valdez 410 Chain Referral 6 1 16.7% Region Total 1,910 153 119 77.8% 3. UPPER KENAI-COOK INLET Anchorage 26,995 Chain Referral 34 19 55.9% Homer 371 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% Karluk 26 Census 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% Koliak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% Nourishie 197 Chain Referral 29 28 96.6% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 15 100.0% | | | | _ | _ | |
| Yakutat 375 Chain Referral 47 40 85.1% Region Total 14,070 373 313 83.9% 2. NORTH PACIFIC RIM Chenega Bay 67 Census 15 7 46.7% Cordova 368 Chain Referral 8 8 100.0% Nanwalek 165 Census 47 46 97.9% Port Graham 151 Census 44 32 72.7% Seldovia 66 Chain Referral 4 3 75.0% Seward 592 Chain Referral 7 2 28.6% Tatitlek 91 Census 22 20 90.9% Valdez 410 Chain Referral 6 1 16.7% Region Total 1,910 153 119 77.8% 3. UPPER KENAI-COOK INLET Anchorage 26,995 Chain Referral 34 19 55.9% Homer 371 Chain Referral 14 | | | | | | |
| Region Total 14,070 373 313 83.9% 2. NORTH PACIFIC RIM Chenega Bay 67 Census 15 7 46.7% Cordova 368 Chain Referral 8 8 100.0% Nanwalek 165 Census 47 46 97.9% Port Graham 151 Census 44 32 72.7% Seldovia 66 Chain Referral 4 3 75.0% Seward 592 Chain Referral 7 2 28.6% Tatitlek 91 Census 22 20 90.9% Valdez 410 Chain Referral 6 1 16.7% Region Total 1,910 153 119 77.8% 3. UPPER KENAI-COOK INLET Anchorage 26,995 Chain Referral 34 19 55.9% Homer 371 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% <td>~</td> <td></td> <td></td> <td>_</td> <td>_</td> <td></td> | ~ | | | _ | _ | |
| 2. NORTH PACIFIC RIM Chenega Bay 67 Census 15 7 46.7% Cordova 368 Chain Referral 8 8 100.0% Nanwalek 165 Census 47 46 97.9% Port Graham 151 Census 44 32 72.7% Seldovia 66 Chain Referral 4 3 75.0% Seward 592 Chain Referral 7 2 28.6% Tatitlek 91 Census 22 20 90.9% Valdez 410 Chain Referral 6 1 16.7% Region Total 1,910 153 119 77.8% 3. UPPER KENAI-COOK INLET Anchorage 26,995 Chain Referral 34 19 55.9% Homer 371 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% *** Karluk 26 Census 14 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% *** Cold Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 29 28 96.6% | | | Chain Referral | | _ | |
| Chenega Bay 67 Census 15 7 46.7% Cordova 368 Chain Referral 8 8 100.0% Nanwalek 165 Census 47 46 97.9% Port Graham 151 Census 44 32 72.7% Seldovia 66 Chain Referral 4 3 75.0% Seward 592 Chain Referral 7 2 28.6% Tatitlek 91 Census 22 20 90.9% Valdez 410 Chain Referral 6 1 16.7% Region Total 1,910 153 119 77.8% 3. UPPER KENAI-COOK INLET Anchorage 26,995 Chain Referral 34 19 55.9% Homer 371 Chain Referral 34 19 55.9% Homer 371 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 5 1 20. | Region Total | 14,070 | | 373 | 313 | 83.9% |
| Cordova 368 Chain Referral 8 8 100.0% Nanwalek 165 Census 47 46 97.9% Port Graham 151 Census 44 32 72.7% Seldovia 66 Chain Referral 4 3 75.0% Seward 592 Chain Referral 7 2 28.6% Tatitlek 91 Census 22 20 90.9% Valdez 410 Chain Referral 6 1 16.7% Region Total 1,910 153 119 77.8% 3. UPPER KENAI-COOK INLET Anchorage 26,995 Chain Referral 34 19 55.9% Homer 371 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% <td>2. NORTH PACIFIC R</td> <td>IIM</td> <td></td> <td></td> <td></td> <td></td> | 2. NORTH PACIFIC R | IIM | | | | |
| Nanwalek 165 Census 47 46 97.9% Port Graham 151 Census 44 32 72.7% Seldovia 66 Chain Referral 4 3 75.0% Seward 592 Chain Referral 7 2 28.6% Tatitlek 91 Census 22 20 90.9% Valdez 410 Chain Referral 6 1 16.7% Region Total 1,910 153 119 77.8% 3. UPPER KENAI-COOK INLET Anchorage 26,995 Chain Referral 34 19 55.9% Homer 371 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% ** Karluk 26 Census 23 22 95.7% | Chenega Bay | 67 | Census | 15 | 7 | 46.7% |
| Port Graham 151 Census 44 32 72.7% Seldovia 66 Chain Referral 4 3 75.0% Seward 592 Chain Referral 7 2 28.6% Tatitlek 91 Census 22 20 90.9% Valdez 410 Chain Referral 6 1 16.7% Region Total 1,910 153 119 77.8% 3. UPPER KENAI-COOK INLET Anchorage 26,995 Chain Referral 34 19 55.9% Homer 371 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% *** Karluk 26 Census 14 14 | Cordova | 368 | Chain Referral | 8 | 8 | 100.0% |
| Seldovia 66 Chain Referral 4 3 75.0% Seward 592 Chain Referral 7 2 28.6% Tatitlek 91 Census 22 20 90.9% Valdez 410 Chain Referral 6 1 16.7% Region Total 1,910 153 119 77.8% 3. UPPER KENAI-COOK INLET Anchorage 26,995 Chain Referral 34 19 55.9% Homer 371 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% *** Karluk 26 Census 14 14 100.0% Kodiak City 829 Chain Referral 54 | Nanwalek | 165 | Census | 47 | 46 | 97.9% |
| Seward 592 Chain Referral 7 2 28.6% Tatitlek 91 Census 22 20 90.9% Valdez 410 Chain Referral 6 1 16.7% Region Total 1,910 153 119 77.8% 3. UPPER KENAI-COOK INLET Anchorage 26,995 Chain Referral 34 19 55.9% Homer 371 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% ** Karluk 26 Census 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 <td>Port Graham</td> <td>151</td> <td>Census</td> <td>44</td> <td>32</td> <td>72.7%</td> | Port Graham | 151 | Census | 44 | 32 | 72.7% |
| Tatitlek 91 Census 22 20 90.9% Valdez 410 Chain Referral 6 1 16.7% Region Total 1,910 153 119 77.8% 3. UPPER KENAI-COOK INLET Anchorage 26,995 Chain Referral 34 19 55.9% Homer 371 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% ** Karluk 26 Census 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% *** Old Harbor 203 Ce | Seldovia | 66 | Chain Referral | 4 | 3 | 75.0% |
| Valdez Region Total 410 1,910 Chain Referral 153 6 1 1 16.7% 17.8% 3. UPPER KENAI-COOK INLET Anchorage 26,995 26,995 Chain Referral 34 19 55.9% Homer 371 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% ** Karluk 26 Census 14 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% ** Old Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | Seward | 592 | Chain Referral | 7 | 2 | 28.6% |
| Region Total 1,910 153 119 77.8% 3. UPPER KENAI-COOK INLET Anchorage 26,995 Chain Referral 34 19 55.9% Homer 371 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% *** Karluk 26 Census 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% *** Old Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | Tatitlek | 91 | Census | 22 | 20 | 90.9% |
| 3. UPPER KENAI-COOK INLET Anchorage 26,995 Chain Referral 34 19 55.9% Homer 371 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% ** Karluk 26 Census 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% ** Old Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | Valdez | 410 | Chain Referral | 6 | 1 | 16.7% |
| Anchorage 26,995 Chain Referral 34 19 55.9% Homer 371 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% ** Karluk 26 Census 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% ** Old Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | Region Total | 1,910 | | 153 | 119 | 77.8% |
| Homer 371 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% ** Karluk 26 Census 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% ** Old Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | 3. UPPER KENAI-CO | OK INLET | | | | |
| Homer 371 Chain Referral 14 8 57.1% Kenai 2,120 Chain Referral 5 1 20.0% Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% ** Karluk 26 Census 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% ** Old Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | Anchorage | 26,995 | Chain Referral | 34 | 19 | 55.9% |
| Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% ** Karluk 26 Census 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% ** Old Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | | | Chain Referral | 14 | 8 | 57.1% |
| Tyonek 184 Chain Referral 3 2 66.7% Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% ** Karluk 26 Census 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% ** Old Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | Kenai | 2,120 | Chain Referral | 5 | 1 | 20.0% |
| Region Total 29,670 56 30 53.6% 4. KODIAK ISLAND Akhiok 75 Census 23 22 95.7% ** Karluk 26 Census 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% ** Old Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | Tyonek | | Chain Referral | 3 | 2 | |
| Akhiok 75 Census 23 22 95.7% ** Karluk 26 Census 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% ** Old Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | | 29,670 | | 56 | 30 | 53.6% |
| Akhiok 75 Census 23 22 95.7% ** Karluk 26 Census 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% ** Old Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | 4. KODIAK ISLAND | | | | | |
| ** Karluk 26 Census 14 14 100.0% Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% ** Old Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | | 75 | Census | 23 | 22 | 95.7% |
| Kodiak City 829 Chain Referral 54 25 46.3% Larsen Bay 91 Census 28 27 96.4% ** Old Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | | | | | | |
| Larsen Bay 91 Census 28 27 96.4% ** Old Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | | | | | | |
| ** Old Harbor 203 Census 75 64 85.3% Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | | | | | | |
| Ouzinkie 197 Chain Referral 29 28 96.6% Port Lions 163 Chain Referral 15 15 100.0% | - | | | | | |
| Port Lions 163 Chain Referral 15 15 100.0% | | | | | 28 | |
| | | 163 | | | | |
| · · · · · · · · · · · · · · · · · · · | Region Total | 1,584 | | 238 | 195 | 81.9% |

-continued-

Table 2, continued.

| rable 2, continued. | | | | | |
|--------------------------|--------------------------------------|------------------------|-------------------------|-------------------|--------------------------|
| Region and | 2000 U.S. Census Estimated Native | Type of | Identified Household | Surveyed | Percentage Households |
| Community | Population | Design | Universe ¹ | Households | Surveyed |
| 5. SOUTH ALASKA F | PENINSULA | | | | · · |
| Chignik Bay | 48 | Census | 16 | 14 | 87.5% |
| Chignik Lagoon | 85 | Census | 25 | 17 | 68.0% |
| Chignik Lake | 127 | Census | 19 | 15 | 78.9% |
| False Pass | 42 | Census | 11 | 8 | 72.7% |
| ** Ivanof Bay | 21 | Census | 0 | 0 | 100.0% |
| King Cove | 379 | Chain Referral | 14 | 11 | 78.6% |
| Perryville | 105 | Census | 34 | 13 | 38.2% |
| Sand Point | 421 | Chain Referral | 28 | 17 | 60.7% |
| Region Total | 1,228 | | 147 | 95 | 64.6% |
| 6. ALEUTIAN ISLANI | ne | | | | |
| Adak | 118 | Chain Referral | 2 | 2 | 100.0% |
| Akutan | 117 | Census | 35 | 33 | 94.3% |
| Atka | 84 | Census | 25 | 10 | 40.0% |
| Nikolski | 27 | Census | 7 | 7 | 100.0% |
| Unalaska | 397 | Chain Referral | , 18 | 7 | 38.9% |
| Region Total | 743 | Onam Rolona | 87 | 59 | 67.8% |
| rtogion rotai | 140 | | O1 | 00 | 01.070 |
| 7. ALEUTIAN ISLANI | DS | | | | |
| ** St. George | 140 | Chain Referral | 7 | 3 | 42.9% |
| * St. Paul | 460 | n/a | n/a | n/a | n/a |
| Region Total | 600 | | 7 | 3 | 42.9% |
| 8. PRIBILOF ISLAND | os | | | | |
| Egegik | 89 | Census | 28 | 25 | 89.3% |
| King Salmon | 133 | Census | 19 | 11 | 57.9% |
| Levelock | 116 | Census | 29 | 20 | 69.0% |
| Naknek | 319 | Two Strata | 68 | 42 | 61.8% |
| Pilot Point | 86 | Census | 21 | 8 | 38.1% |
| Port Heiden | 93 | Census | 23 | 21 | 91.3% |
| South Naknek | 115 | Census | 21 | 9 | 42.9% |
| Region Total | 951 | | 209 | 136 | 65.1% |
| 9. SOUTH BRISTOL | BAY | | | | |
| Aleknagik | 187 | Census | 45 | 27 | 60.0% |
| Clark's Point | 69 | Census | 18 | 11 | 61.1% |
| Dillingham | 1,503 | Two Strata | 175 | 158 | 90.3% |
| Manokotak | 378 | Two Strata | 97 | 75 | 77.3% |
| Togiak | 750 | Two Strata | 168 | 139 | 82.7% |
| Twin Hills | 65 | Census | 22 | 20 | 90.9% |
| Region Total | 2,952 | | 503 | 410 | 81.5% |
| TOTAL | 53,708 | | 1,773 | 1,360 | 76.7% |
| (Excl. Anchorage) | (26,713) | | (1,739) | (1,341) | (77.1%) |
| 1 For chain referral com | munities the "Identified He | uaahald I laivaraa" ia | amallar than the | total number of N | ativa bayaabalda |

^{1.} For chain referral communities, the "Identified Household Universe" is smaller than the total number of Native households.

^{*} St. Paul estimates for sea lions derived from Jones (2009).

^{**} Data not available for 2008. Information reported for the most recent year for which data are available.

The project was designed to be a collaborative effort with Alaska Native hunters and organizations. During the first year of the study, a number of Native governments, Native leaders, and associations with interests in harbor seal and sea lion management were contacted to obtain suggestions about project design, including the Alaska Federation of Natives (AFN); the Aleutians East Borough; the Aleutian-Pribilof Islands Association; BBNA; the Central Council of Tlingit and Haida Indian Tribes of Alaska; Cook Inlet Region, Inc.; IPCoMM (meeting through RurAL CAP); the Kodiak Area Native Association; and the North Pacific Rim (now named Chugachmiut). RurAL CAP and IPCoMM served as the formal technical oversight organizations for the first 5 years of the project through a subcontract with the Division of Subsistence. Since 1997, formal technical oversight for the project has been provided by ANHSC.

During 2008–2009, ANHSC received funding directly from NMFS and entered into a cooperative agreement with the Division of Subsistence to jointly conduct the harvest assessment project. ANHSC provided a project coordinator and an analyst for writing the final report. ANHSC coordinated research activities in Prince William Sound, Cook Inlet, and Kodiak Island. Research activities in other areas were coordinated by regional Native organizations: the Aleut Marine Mammal Commission (AMMC) for the Aleutian Islands and western Alaska Peninsula areas; BBNA for the Bristol Bay and eastern Alaska Peninsula areas; and SAIFWC for the Southeast region. The Division of Subsistence was responsible for data analysis. Copies of this final report were provided to the Alaska Sea Otter and Steller Sea Lion Commission (TASSC) by the Division of Subsistence.

As noted previously, St. Paul sea lion take information was collected by the Aleut Community of St. Paul's Ecosystem Conservation Office through a contract between the tribe and NMFS. The methodology and findings of that project for 2008 are described in Jones (2009). Data from the program in St. Paul for other years are included in this report based upon published papers and other reports (Lestenkof et al. 2007, 2008, Lestenkof and Zavadil 2006, Zavadil et al. *Unpublished* [2006]).

Support for the project was solicited from local Native governments or leaders of local government entities for each community where surveys were conducted. During the first project year, contacts were made with representatives of all the entities listed in Table 1 and the project received support in the communities listed in Table 2. Many local governments have been extremely helpful during the course of the project, especially by identifying Native households, potential local researchers, and marine mammal experts in the community to contact.

The project was designed to protect the identities of surveyed participants. Marine mammal hunters and other respondents were informed that participation in interviews was completely voluntary. Respondents were told that their identities would be kept confidential in reports presenting the information. Permission to administer the household harvest survey was asked of each individual respondent, face-to-face at the person's home, or during an initial phone contact. At this time, the purpose of the project was described. If a person declined to participate in the study, the person was thanked for his or her time and a survey was not conducted. Persons who were interviewed as part of the harvest survey were not paid. Most marine mammal hunters generously offered their assistance to the study.

As stated above, a network of locally-hired researchers supervised by the staff of ANHSC, AMMC, BBNA, and SAIFWC was used to collect information on subsistence takes of sea lions and harbor seals during 2008. Newly-hired local researchers received in-person training from regional organization staff. Local researchers who successfully conducted surveys on previous rounds usually worked with regional researchers through telephone, e-mail, fax, and the mail. Local researchers performed tasks such as updating community lists of households and hunters, implementing household sampling regimes, administering household surveys during the yearly cycle, data proofing of surveys and survey tracking forms, and mailing surveys and tracking sheets for data entry and analysis. Regional researchers performed tasks such as obtaining formal support for the project from Native organizations, recruiting and selecting local hires, developing household sampling regimes, training and supervising local researchers, proofing survey data, and consulting local researchers to resolve data questions in

preparation for data entry and analysis. Entering data into a centralized database was done by ADF&G staff.

During the 2008 data year, 52 local researchers collected information in 54 communities. New harvest information was not collected in 8 communities (Table 2) because effective local surveyors were not secured and funding constraints did not allow for additional work by regional researchers. In this report, data from the most recent survey cycle in each community were used for estimates in the unsurveyed communities, as noted in Appendix C. Ivanof Bay had no year-round households in 2003–2005 and 2008 (during these times, its hunters were included on the Perryville household lists). As mentioned previously, in recent years harvest information at St. Paul has been collected under a program of the Aleut Community of St. Paul Island. Harvest information for 2008 at St. Paul was taken from Jones (2009).

Households were selected using census sampling, chain referral sampling, or two-strata random sampling, depending upon the community. The sampling method for each community is shown in Table 2. Sampling designs and expansion methods were similar to those used the first study year, as described in Wolfe and Mishler (1993:17–19). Census sampling means all households with Alaska Natives were identified for contact. For chain referral communities, the sampling universe comprised all households with marine mammal hunters (based on past or potential activities), as identified by key respondents and other surveyed hunters in the community. In the two-strata design, the high stratum comprised hunting households as identified by key respondents, and the low stratum comprised a random draw of households from the remaining Alaska Native households in the community.

For communities with census or chain referral sampling, 74.8% of identified households (946 of 1,265 households) were successfully contacted and interviewed. For communities with two-strata designs, 81.9% of high stratum households were successfully contacted and interviewed (77 of 94 households), while 81.4% of low stratum households were interviewed (337 of 414 households) (Tables 2 and 3). These are relatively high sampling fractions for studies using survey methodologies that rely upon voluntary participation by surveyed

households. Overall, the level of cooperation by households in the harvest survey was high in communities. The nonresponse rate was due in large part to logistical problems in contacting households, rather than refusals to participate.

In the appendices (Appendix B, Appendix C), the statistical analysis presents harvest data in 3 different tables for each community. In the first table, the unexpanded reported take is presented for each community, representing actual animals reported harvested or struck and lost by surveyed hunters, with no fractions of animals.

Table 3.–Sampling methodology for communities with two-strata designs, harbor seal and sea lion surveys, 2008.

| | Number High Stratum | Sampled High Stratum | | Number Low Stratum | Sampled Low Stratum | Percent Low |
|------------|------------------------|-------------------------|---------|-----------------------|------------------------|----------------|
| Community | Households | Households | Stratum | Households | Households | Stratum |
| Dillingham | 19 | 15 | 78.9% | 156 | 143 | 91.7% |
| Manokotak | 26 | 25 | 96.2% | 71 | 50 | 70.4% |
| Naknek | 21 | 16 | 76.2% | 47 | 26 | 55.3% |
| Togiak | 28 | 21 | 75.0% | 140 | 118 | 84.3% |
| | | | | | | |
| Total | 94 | 77 | 81.9% | 414 | 337 | 81.4% |

The second table presents the combined estimated expanded take for each stratum in the communities. In this table, takes of surveyed hunters are expanded to unsurveyed hunters within the stratum, using different methods depending upon the household sampling design as described above. In this expansion, the proportions of the seasonal takes of the surveyed households are preserved, so takes with unknown months exist in the table. The expansion treats each community as a separate sampling universe. Fractions of animals commonly result from the expansion, which are rounded to the nearest tenth. The third table presents a seasonally-adjusted expanded take: takes with unknown months are assigned to months based on the proportion of the known take. The numbers in this third table form the basis for the numbers in the report narrative. In addition, details of the expansion for two-strata communities are shown for harbor seal takes in Table 25 and for sea lion takes in Table 26.

The calculation of the confidence range around the estimate follows the method for stratified samples in Cochran (1977:5.13, 5.15). In this process, the unexpanded reported take (that is, the known take) is used as the lower range for a community if it is higher than the statistically-calculated lower take estimate.

THE SUBSISTENCE TAKE OF HARBOR SEALS IN 2008 Estimated Size of the Harbor Seal Take, 2008

The estimated size of the total take of harbor seals by Alaska Natives in 2008 is presented in Tables 4 and 5. In 2008, an estimated 1,462 harbor seals were taken by Alaska Natives for subsistence uses (with a 95% confidence range of between 1,196 to 1,980 animals) (Table 4). Of the 2008 subsistence take, 13.8% (202 harbor seals) were struck and lost, and 86.2% (1,260 harbor seals) were harvested.

The total state estimate for harbor seals is necessarily somewhat indeterminate because of species identification problems in the Bristol Bay area. As discussed in Wolfe and Mishler (1993:61–69), in Bristol Bay there are areas with a seasonal geographic overlap of harbor seals and spotted seals *P. largha* (Figure 3). Local indigenous Yup'ik taxonomies categorize adults of the 2 Linnaean species as a single type (*issuriq*) in this area, and categorize pups into 2 different types. Of the total North Bristol Bay take, we classified 83 seals as *P. vitulina* and 272 seals as *P. largha*, based on the ecological features of each take (degree of association with seasonal ice) (Table 9 in Appendix B). Of the animals classified as *P. largha*, 21.5% (58 animals) were reported struck and lost, and 78.5% (213 animals) were harvested (Table 9 in Appendix B). In Table 4, we also assumed the entire South Bristol Bay take of 105 animals was *P. vitulina* (Table 5). Changing these assumptions will change the total statewide take estimate. As stated above, we believe the best estimate of the subsistence take in 2008 is 1,462 harbor seals, based on the assumptions above.

Table 4.–Estimated subsistence takes of harbor seals (*Phoca vitulina*) by Alaska Natives, 1992–2008.

| Struck Total Confidence Range Year Harvest and Lost Take for Total Take 1992 2,501 353 2,854 2,293 - 3,692 |
|--|
| |
| 1992 2,501 353 2,854 2,293 - 3,692 |
| |
| 87.6% 12.4% 100.0% |
| 1993 2,365 371 2,736 2,334 - 3,471 |
| 86.4% 13.6% 100.0% |
| 00.478 13.078 100.078 |
| 1994 2,313 308 2,621 2,110 - 3,457 |
| 88.2% 11.8% 100.0% |
| 4005 0 400 0 40 0 740 0 404 0 070 |
| 1995 2,498 243 2,742 2,184 - 3,679 |
| 91.1% 8.9% 100.0% |
| 1996 2,415 327 2,741 2,378 - 3,479 |
| 88.1% 11.9% 100.0% |
| 1007 2 105 251 2 546 2 060 2 200 |
| 1997 2,195 351 2,546 2,069 - 3,309 |
| 86.2% 13.8% 100.0% |
| 1998 2,286 310 2,597 2,235 - 3,212 |
| 88.1% 11.9% 100.0% |
| 00.170 11.070 100.070 |
| 2000 1,975 250 2,224 1,727 - 3,007 |
| 88.8% 11.2% 100.0% |
| |
| 2001 1,797 234 2,031 1,621 - 2,647 |
| 88.5% 11.5% 100.0% |
| 2002 1,585 249 1,834 1,479 - 2,431 |
| 86.4% 13.6% 100.0% |
| 00.470 10.070 100.070 |
| 2003 1,812 219 2,030 1,577 - 2,837 |
| 89.2% 10.8% 100.0% |
| |
| 2004 1,566 256 1,822 1,420 - 2,469 |
| 86.0% 14.0% 100.0% |
| 2005 1,470 226 1,696 1,354 - 2,306 |
| 86.7% 13.3% 100.0% |
| 00.770 10.070 100.070 |
| 2006 1,423 221 1,644 1,250 - 2,348 |
| 86.5% 13.5% 100.0% |
| |
| 2007 1,267 161 1,428 1,082 - 2,008 |
| 88.7% 11.3% 100.0% |
| 2008 1,260 202 1,462 1,196 - 1,980 |
| 2008 1,260 202 1,462 1,196 - 1,980 86.2% 13.8% 100.0% |
| 00.270 13.070 100.070 |

Table 5.–Regional distribution of subsistence takes of harbor seals (*Phoca vitulina*) by Alaska Natives, 2008, with confidence intervals and statistical ranges.

| | Total Take | | | | | | | | |
|-------------------|------------|---------|---------|------------|----------|----------|------------|---------|--------|
| | Esti | mated T | otal | | | | | | Struck |
| | | Struck | | Confidence | Lower | Upper | Percentage | Per | and |
| | | and | | Interval | Range | Range | of Take | Capita | Lost |
| Region | Harvest | Lost | Take | (+/- %) | Estimate | Estimate | by Region | Harvest | Rate |
| Southeast | 533.9 | 60.1 | 593.9 | 38.3% | 501.2 | 821.5 | 40.6% | 0.04 | 10.1% |
| North Pacific Rim | 243.7 | 33.1 | 276.7 | 24.7% | 251.0 | 345.2 | 18.9% | 0.12 | 12.0% |
| Upper Kenai-Cook | | | | | | | | | |
| Inlet | 33.1 | 3.5 | 36.7 | 66.1% | 21.0 | 60.9 | 2.5% | 0.00 | 9.7% |
| Kodiak Island | 165.5 | 26.5 | 192.0 | 20.8% | 162.9 | 232.0 | 13.1% | 0.10 | 13.8% |
| South Alaska | | | | | | | | | |
| Peninsula | 107.5 | 17.3 | 124.8 | 46.7% | 76.8 | 183.1 | 8.5% | 0.09 | 13.9% |
| Aleutian Islands | 43.5 | 6.0 | 49.5 | 42.4% | 35.0 | 70.4 | 3.4% | 0.06 | 12.1% |
| Pribilof Islands | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 | 0.0% | 0.00 | 0.0% |
| South Bristol Bay | 66.9 | 38.2 | 105.1 | 43.7% | 83.0 | 151.0 | 7.2% | 0.07 | 36.3% |
| North Bristol Bay | 65.6 | 17.2 | 82.8 | 40.4% | 65.0 | 116.2 | 5.7% | 0.02 | 20.7% |
| ALASKA | 1,259.7 | 201.8 | 1,461.5 | 35.5% | 1,196.0 | 1,980.3 | 100.0% | | 13.8% |
| Percentage of | | | | | | | | | |
| Take | 86.2% | 13.8% | 100.0% | | | | | | |

Geographic Distribution of Harbor Seal Takes

Table 5 shows the regional distribution of harbor seal takes by Alaska Natives in 2008. The largest takes in absolute numbers were by the Tlingit and Haida of the Southeast region: about 40.6% (594 animals) of the statewide take of harbor seals were taken by hunters in Southeast Alaska (Table 5). The regions ranked second and third were the North Pacific Rim (277 seals, or 18.9% of the statewide take) and Kodiak Island (192 seals, or 13.1%). The remainder of the statewide harbor seal take (399 animals, or 27.3%) was distributed among the other 6 regions.

The geographic distribution of harbor seal takes by community is shown in Table 6. Of the top 10 communities (in absolute numbers of harbor seals taken in 2008), 4 were in the Southeast region, 2 in the North Pacific Rim, and one each in the Kodiak Islands, South Alaska Peninsula, South Bristol Bay, and North Bristol Bay. The 10 top ranking communities were Sitka (142 seals), Tatitlek (141 seals), Yakutat (135 seals), Kodiak City (71 seals), Ketchikan (67 seals), Perryville (63 seals), Togiak (60 seals), Port Heiden (53 seals), Angoon (46 seals), and Nanwalek (42 seals). There were 12 communities with no reported harbor seals taken in 2008:

Chignik Lagoon, Clark's Point, Karluk, Kenai, King Salmon, Klukwan, Seward, South Naknek, St. George, St. Paul, Twin Hills, and Unalaska (spotted seals were reported taken at Clark's Point and Twin Hills, and the harvest program at St. Paul did not collect harbor seal data).

Per capita harvests are the numbers of harbor seals harvested per Alaska Native living in a community. It is an estimate of the amount harvested per person in an area, controlling for differences in population size. The top 10 communities in terms of per capita harvests in 2008 were Tatitlek (1.38 seals harvested per person), Perryville (0.45), Port Heiden (0.39), Yakutat (0.31), Nikolski (0.26), Pelican (0.24), Atka (0.21), Nanwalek (0.20), Old Harbor (0.17), and Ouzinkie (0.16). There was greater parity across regions in per capita harvests compared with total community take (Table 6). Among the top 10 communities for per capita harvests, 2 were in the Kodiak Islands, North Pacific Rim, Aleutian Islands, and Southeast Alaska, and one each in South Bristol Bay and South Alaska Peninsula.

Table 6.—Subsistence harbor seal harvest, take, and use by Alaska Natives, 2008, with confidence intervals and statistical ranges, by community.

| | | | | | | | 7 | Total Take | |
|------------|--|--|---|---------|-----------------------|---------------|-----------------------------------|----------------------------|----------------------------|
| | Harbor Seal Harvests Per Capita | Native Households Harvesting Harbor Seals | Native Households Using Harbor Seals | Harvest | Struck and Lost | Total Take | Confidence Interval (+/- %) | Lower Range Estimate | Upper Range Estimate |
| SOUTHEAS | ST ALASKA | | | | | | , | | |
| Angoon | .08 | 50.0% | 100.0% | 41.0 | 5.0 | 46.0 | 0.0% | 46.0 | 46.0 |
| Craig | .00 | 10.0% | 10.0% | 2.1 | 0.0 | 2.1 | 141.9% | 1.0 | 5.1 |
| Haines | .05 | 10.0% | 30.0% | 15.6 | 2.6 | 18.2 | 94.2% | 14.0 | 35.3 |
| Hoonah | .04 | 18.4% | 52.6% | 25.3 | 6.3 | 31.6 | 23.4% | 30.0 | 39.0 |
| Hydaburg | .04 | 40.0% | 40.0% | 14.4 | 0.0 | 14.4 | 54.3% | 9.0 | 22.2 |
| Juneau | .00 | 33.3% | 41.7% | 8.0 | 1.3 | 9.3 | 43.7% | 7.0 | 13.4 |
| Kake | .04 | 36.0% | 96.0% | 23.0 | 2.0 | 25.0 | 0.0% | 25.0 | 25.0 |
| Ketchikan | .04 | 16.7% | 16.7% | 66.7 | 0.0 | 66.7 | 124.0% | 40.0 | 149.3 |
| Klawock | .04 | 34.8% | 47.8% | 21.4 | 1.3 | 22.7 | 32.0% | 18.0 | 30.0 |
| Klukwan | .00 | 0.0% | 100.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Pelican | .24 | 100.0% | 100.0% | 10.0 | 0.0 | 10.0 | 17.9% | 8.2 | 11.8 |
| Petersburg | .02 | 14.8% | 96.3% | 7.8 | 12.2 | 20.0 | 21.6% | 18.0 | 24.3 |
| Saxman | .03 | 40.0% | 60.0% | 9.6 | 0.0 | 9.6 | 97.0% | 6.0 | 18.9 |
| Sitka | .06 | 57.4% | 77.8% | 140.6 | 1.0 | 141.6 | 8.9% | 139.0 | 154.1 |
| Wrangell | .06 | 33.3% | 33.3% | 33.3 | 8.3 | 41.7 | 82.9% | 25.0 | 76.2 |
| Yakutat | .31 | 57.5% | 100.0% | 115.2 | 20.0 | 135.1 | 26.4% | 115.0 | 170.8 |

-continued-

Table 6, continued.

| | | | | | | | Total Take | | |
|----------------|--|--|---|----------|-----------------------|---------------|-----------------------------------|----------------------------|----------------------------|
| | Harbor Seal Harvests Per Capita | Native Households Harvesting Harbor Seals | Native Households Using Harbor Seals | Harvest | Struck and Lost | Total Take | Confidence Interval (+/- %) | Lower Range Estimate | Upper Range Estimate |
| NORTH PA | | Harber Coale | Coalo | Tidivoot | Loot | rano | (17 70) | Louridio | Louinato |
| Chenega | | | | | | | | | |
| Bay | .16 | 28.6% | 85.7% | 10.7 | 0.0 | 10.7 | 113.3% | 5.0 | 22.9 |
| Cordova | .09 | 87.5% | 87.5% | 32.0 | 4.0 | 36.0 | 0.0% | 36.0 | 36.0 |
| Nanwalek | .20 | 15.2% | 89.1% | 33.7 | 8.2 | 41.9 | 15.6% | 41.0 | 48.4 |
| Port | | | | | | | | | |
| Graham | .11 | 15.6% | 71.9% | 16.5 | 5.5 | 22.0 | 56.7% | 16.0 | 34.5 |
| Seldovia | .02 | 33.3% | 66.7% | 1.3 | 0.0 | 1.3 | 98.0% | 1.0 | 2.6 |
| Seward | .00 | 0.0% | 100.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Tatitlek | 1.38 | 30.0% | 90.0% | 125.4 | 15.4 | 140.8 | 25.6% | 128.0 | 176.8 |
| Valdez | .06 | 100.0% | 100.0% | 24.0 | 0.0 | 24.0 | 0.0% | 24.0 | 24.0 |
| | NAI-COOK I | | | | | | | | |
| Anchorage | .00 | 31.6% | 68.4% | 28.6 | 1.8 | 30.4 | 55.5% | 17.0 | 47.3 |
| Homer | .00 | 0.0% | 37.5% | 0.0 | 1.8 | 1.8 | 128.3% | 1.0 | 4.0 |
| Kenai | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Tyonek | .02 | 50.0% | 50.0% | 4.5 | 0.0 | 4.5 | 113.2% | 3.0 | 9.6 |
| KODIAK IS | | | | | | | | | |
| Akhiok | .14 | 36.4% | 81.8% | 10.5 | 5.2 | 15.7 | 14.4% | 15.0 | 17.9 |
| Karluk | .00 | 0.0% | n/a | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Kodiak City | .08 | 64.0% | 100.0% | 62.6 | 8.6 | 71.3 | 29.9% | 49.9 | 92.6 |
| Larsen Bay | .06 | 18.5% | 44.4% | 5.2 | 0.0 | 5.2 | 15.2% | 5.0 | 6.0 |
| Old Harbor | .17 | 20.3% | 79.7% | 35.2 | 3.5 | 38.7 | 33.5% | 33.0 | 51.6 |
| Ouzinkie | .16 | 57.1% | 100.0% | 32.1 | 3.1 | 35.2 | 7.3% | 34.0 | 37.8 |
| Port Lions | .12 | 33.3% | 40.0% | 20.0 | 6.0 | 26.0 | 0.0% | 26.0 | 26.0 |
| | ASKA PENII | NSULA | | | | | | | |
| Chignik Bay | .05 | 7.1% | 14.3% | 2.3 | 0.0 | 2.3 | 69.3% | 2.0 | 3.9 |
| Chignik | | | | | | | | | |
| Lagoon | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Chignik | | | | | | | | | |
| Lake | .16 | 40.0% | 40.0% | 20.3 | 0.0 | 20.3 | 39.0% | 16.0 | 28.2 |
| False Pass | .07 | 12.5% | 75.0% | 2.8 | 0.0 | 2.8 | 102.4% | 2.0 | 5.6 |
| Ivanof Bay | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| King Cove | .01 | 18.2% | 27.3% | 3.8 | 0.0 | 3.8 | 64.9% | 3.0 | 6.3 |
| Perryville | .45 | 69.2% | 100.0% | 47.1 | 15.7 | 62.8 | 46.1% | 33.8 | 91.7 |
| Sand Point | .07 | 41.2% | 64.7% | 31.3 | 1.6 | 32.9 | 44.1% | 20.0 | 47.5 |
| PRIBILOF I | | 0.00/ | 0.00/ | 0.0 | 0.0 | 0.0 | 0.00/ | 0.0 | 0.0 |
| St. George | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| St. Paul* | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| ALEUTIAN | | 400.00/ | 400.00/ | 0.0 | 0.0 | 0.0 | 0.00/ | 0.0 | 0.0 |
| Adak | .00 | 100.0% | 100.0% | 2.0 | 0.0 | 2.0 | 0.0% | 2.0 | 2.0 |
| Akutan | .15 | 24.2% | 54.5% | 17.0 | 0.0 | 17.0 | 15.8% | 16.0 | 19.7 |
| Atka | .21 | 30.0% | 70.0% | 17.5 | 5.0 | 22.5 | 81.3% | 9.0 | 40.8 |
| Nikolski | .26 | 42.9% | 42.9% | 7.0 | 1.0 | 8.0 | 0.0% | 8.0 | 8.0 |
| Unalaska | .00 | 0.0% | 14.3% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |

-continued-

Table 6, continued.

| | | | | | | | 7 | Total Take | |
|----------------|------------|---------------|--------------|---------|--------|---------|------------|------------|----------|
| | Harbor | Native | Native | | | | | | |
| | Seal | Households | Households | | Struck | | Confidence | Lower | Upper |
| | Harvests | Harvesting | Using Harbor | | and | Total | Interval | Range | Range |
| COLITILIDE | Per Capita | Harbor Seals | Seals | Harvest | Lost | Take | (+/- %) | Estimate | Estimate |
| | ISTOL BAY | 0.007 | 0.00/ | | | | 0.4.007 | 4.0 | 4.0 |
| Egegik | .00 | 0.0% | 0.0% | 0.0 | 1.1 | 1.1 | 64.2% | 1.0 | 1.8 |
| King Salmon | .00 | 0.0% | 9.1% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Levelock | .00 | 30.0% | 65.0% | 13.1 | 13.1 | 26.1 | 34.0% | 18.0 | 35.0 |
| Naknek | .05 | 6.5% | 17.2% | 15.1 | 7.6 | 20.1 | 76.8% | 15.0 | 40.1 |
| Pilot Point | .03 | 12.5% | 17.2% | 2.6 | 0.0 | 2.6 | 154.2% | 1.0 | 6.7 |
| Port | .03 | 12.3% | 12.5% | 2.0 | 0.0 | 2.0 | 134.2% | 1.0 | 0.7 |
| Heiden | .39 | 28.6% | 38.1% | 36.1 | 16.4 | 52.6 | 28.4% | 48.0 | 67.5 |
| South | | 20.070 | 33,5 | 33 | | 02.0 | _0,0 | | 00 |
| Naknek | .00 | 0.0% | 33.3% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| NORTH BR | SISTOL BAY | | | | | | | | |
| Aleknagik | .03 | 14.8% | 48.1% | 5.0 | 1.7 | 6.7 | 96.9% | 4.0 | 13.1 |
| Clark's | | | | | | | | | |
| Point | .00 | 27.3% | 45.5% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Dillingham | .00 | 1.2% | 65.3% | 5.5 | 0.0 | 5.5 | 46.6% | 5.0 | 8.0 |
| Manokotak | .02 | 13.1% | 58.8% | 9.2 | 1.4 | 10.6 | 60.4% | 8.0 | 17.0 |
| Togiak | .06 | 33.7% | 70.1% | 46.0 | 14.1 | 60.0 | 30.0% | 48.0 | 78.1 |
| Twin Hills | .00 | 15.0% | 60.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| ALASKA T | OTAL | | | 1,259.7 | 201.8 | 1,461.5 | 35.5% | 1,196.0 | 1,980.3 |
| SPOTTED | SEALS, NOR | RTH BRISTOL E | BAY** | | | | | | |
| Aleknagik | .04 | 14.8% | 48.1% | 6.7 | 0.0 | 6.7 | 86.0% | 4.0 | 12.4 |
| Clark's | | | | | | | | | |
| Point | .21 | 27.3% | 45.5% | 14.7 | 3.3 | 18.0 | 75.5% | 11.0 | 31.6 |
| Dillingham | .00 | 1.2% | 65.3% | 1.1 | 1.1 | 2.2 | 56.6% | 2.0 | 3.4 |
| Manokotak | .04 | 13.1% | 58.8% | 16.6 | 7.4 | 24.0 | 35.1% | 19.3 | 32.4 |
| Togiak | .22 | 33.7% | 70.1% | 167.7 | 42.2 | 209.9 | 16.7% | 175.0 | 244.9 |
| Twin Hills | .10 | 15.0% | 60.0% | 6.6 | 4.4 | 11.0 | 42.4% | 10.0 | 15.7 |
| TOTAL WI | TH OTHER S | EALS | | 1,473.0 | 260.2 | 1,733.3 | 33.9% | 1,417.2 | 2,320.6 |

^{*} St. Paul data from Jones (2009).

Seasonal Distribution of Harbor Seal Takes

The seasonally-adjusted distribution of the statewide harbor seal take in 2008 is depicted in Figures 4 and 5. Seals were taken during all months in 2008. Since 1992, the seasonal patterning of harbor seal takes commonly has shown 2 distinct hunting peaks: the first during spring, and a second during fall—early winter, with a low point in June (Figure 5). That pattern was hardly perceptible in 2008, although a spring peak occurred in March and a fall—early winter peak occurred in September through November (Figure 4). The decline of the spring and fall hunting peaks over time is depicted in Figure 5. Overall, harbor seal hunting

^{**} In North Bristol Bay, percentage of households harvesting and using issuriq.

during 2008 trended toward the low range for each month compared with other years. Harbor seal takes in April, October, and December were the lowest recorded for those months since surveys began in 1992. Seasonal hunting patterns of each region and community are shown in appendices B and C.

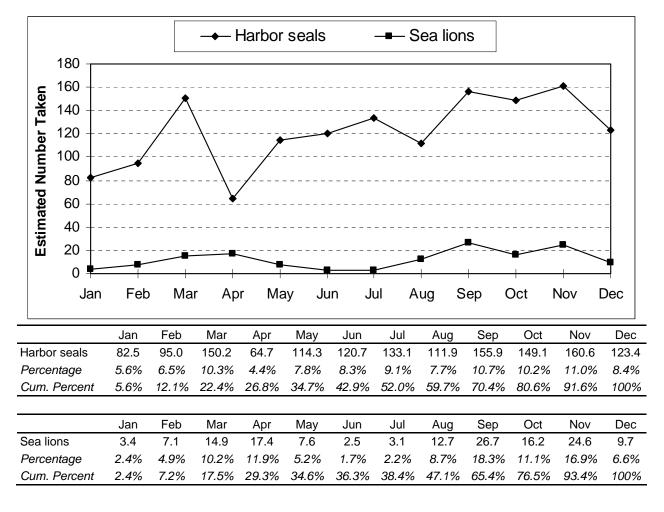


Figure 4.—Seasonally adjusted takes of harbor seals and sea lions by Alaska Natives, 2008.

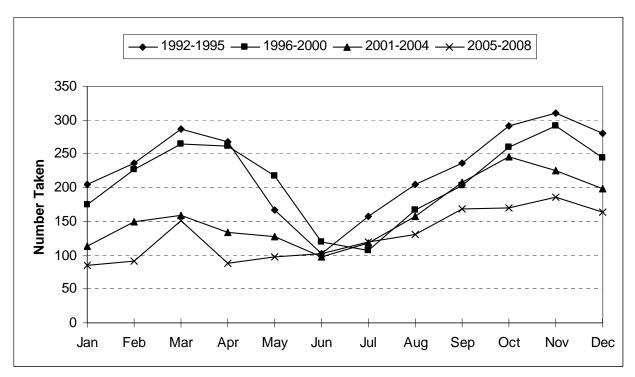


Figure 5.—Mean seasonally adjusted takes of harbor seals by Alaska Natives, 1992–1995, 1996–2000, 2001–2004, and 2005–2008.

Age and Sex Composition of Harbor Seal Harvests

The estimated age and sex compositions of the 2008 harbor seal harvests are shown in Tables 7 and 8 by geographic region. Hunters reported harvesting male harbor seals over female harbor seals by a ratio of about 3.0 to 1 (649 males to 216 females, of harvests with reported sex). Hunters also reported harvesting substantially more adult harbor seals (73.7%) than juveniles (20.4%) or pups (5.8%). Overall, adult females (152 animals) comprised about 18.0% of the total harbor seal harvest whose age and sex was reported in 2008. Hunters did not report the sex for 31.4% of the harvest or the age for about 11.8% of the harvest. The age and sex are also unknown for animals that were struck and lost. A further analysis of age and sex composition is found in the "Discussion" section.

Table 7.-Age and sex composition of harbor seal harvests by Alaska Natives, 2008.

| | | | Unknown | |
|----------------|--------|--------|---------|---------|
| | Male | Female | Sex | Total |
| Adult | 487.2 | 151.6 | 179.9 | 818.7 |
| Row Percent | 59.5% | 18.5% | 22.0% | 100.0% |
| Column Percent | 75.1% | 70.1% | 45.5% | 65.0% |
| Juvenile | 120.2 | 48.6 | 58.3 | 227.0 |
| Row Percent | 52.9% | 21.4% | 25.7% | 100.0% |
| Column Percent | 18.5% | 22.5% | 14.8% | 18.0% |
| Pup | 23.5 | 11.3 | 30.2 | 64.9 |
| Row Percent | 36.2% | 17.3% | 46.4% | 100.0% |
| Column Percent | 3.6% | 5.2% | 7.6% | 5.2% |
| Unknown Age | 17.7 | 4.7 | 126.7 | 149.0 |
| Row Percent | 11.9% | 3.1% | 85.0% | 100.0% |
| Column Percent | 2.7% | 2.2% | 32.1% | 11.8% |
| Total | 648.5 | 216.1 | 395.0 | 1,259.7 |
| Row Percent | 51.5% | 17.2% | 31.4% | 100.0% |
| Column Percent | 100.0% | 100.0% | 100.0% | 100.0% |

Table 8.-Age and sex composition of harbor seal harvests by Alaska Natives, by region, 2008.

| | | | Upper | | | | | | | |
|----------------------|-------------|---------|--------|--------|-----------|----------|----------|---------|---------|---------|
| | | North | Kenai- | | South | | | South | North | |
| | | Pacific | Cook | Kodiak | Alaska | Aleutian | Pribilof | Bristol | Bristol | |
| AGE AND SEX | Southeast | Rim | Inlet | Island | Peninsula | Islands | Islands | Bay | Bay | Alaska |
| Adult Male | 177.2 | 65.7 | 9.9 | 129.1 | 51.6 | 12.9 | 0.0 | 29.4 | 11.5 | 487.2 |
| Adult Female | 69.2 | 22.5 | 3.6 | 13.6 | 13.4 | 11.4 | 0.0 | 15.8 | 2.2 | 151.6 |
| Adult Unknown Sex | 106.9 | 20.2 | 5.4 | 6.1 | 8.5 | 3.0 | 0.0 | 14.2 | 15.6 | 179.9 |
| Juvenile Male | 77.4 | 7.2 | 10.7 | 9.4 | 5.2 | 5.0 | 0.0 | 0.0 | 5.3 | 120.2 |
| Juvenile Female | 36.7 | 3.1 | 0.0 | 1.0 | 1.4 | 5.0 | 0.0 | 1.3 | 0.0 | 48.6 |
| Juvenile Unknown Sex | 20.3 | 15.6 | 1.8 | 1.0 | 7.6 | 0.0 | 0.0 | 1.3 | 10.7 | 58.3 |
| Pup Male | 9.2 | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.5 |
| Pup Female | 2.0 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 11.3 |
| Pup Unknown Sex | 1.0 | 24.7 | 1.8 | 1.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 30.2 |
| Male Unknown Age | 5.1 | 0.0 | 0.0 | 0.0 | 9.0 | 0.0 | 0.0 | 0.0 | 3.6 | 17.7 |
| Female Unknown Age | 1.0 | 0.0 | 0.0 | 1.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 |
| Unknown Age and Sex | 27.8 | 63.8 | 0.0 | 3.2 | 6.6 | 6.2 | 0.0 | 2.2 | 16.8 | 126.7 |
| TOTAL | 533.9 | 243.7 | 33.1 | 165.5 | 107.5 | 43.5 | 0.0 | 66.9 | 65.6 | 1,259.7 |
| | -continued- | | | | | | | | | |

Table 8, continued.

| | | | Upper | | | | | | | |
|-------------|-----------|---------|--------|--------|-----------|----------|----------|---------|---------|---------|
| | | North | Kenai- | | South | | | South | North | |
| | | Pacific | Cook | Kodiak | Alaska | Aleutian | Pribilof | Bristol | Bristol | |
| AGE AND SEX | Southeast | Rim | Inlet | Island | Peninsula | Islands | Islands | Bay | Bay | Alaska |
| AGE ONLY | | | | | | | | | | |
| Adult | 353.3 | 108.3 | 18.8 | 148.8 | 73.4 | 27.2 | 0.0 | 59.5 | 29.3 | 818.7 |
| Juvenile | 134.4 | 25.9 | 12.5 | 11.5 | 14.2 | 10.0 | 0.0 | 2.6 | 15.9 | 227.0 |
| Pup | 12.2 | 45.6 | 1.8 | 1.0 | 1.6 | 0.0 | 0.0 | 2.6 | 0.0 | 64.9 |
| Unknown Age | 34.0 | 63.8 | 0.0 | 4.3 | 18.2 | 6.2 | 0.0 | 2.2 | 20.3 | 149.0 |
| TOTAL | 533.9 | 243.7 | 33.1 | 165.5 | 107.5 | 43.5 | 0.0 | 66.9 | 65.6 | 1,259.7 |
| SEX ONLY | | | | | | | | | | |
| Male | 268.9 | 87.2 | 20.6 | 138.4 | 65.8 | 17.9 | 0.0 | 29.4 | 20.4 | 648.5 |
| Female | 109.0 | 32.2 | 3.6 | 15.7 | 17.4 | 16.4 | 0.0 | 19.8 | 2.2 | 216.1 |
| Unknown Sex | 156.0 | 124.3 | 8.9 | 11.4 | 24.3 | 9.2 | 0.0 | 17.7 | 43.0 | 395.0 |
| TOTAL | 533.9 | 243.7 | 33.1 | 165.5 | 107.5 | 43.5 | 0.0 | 66.9 | 65.6 | 1,259.7 |

Hunter Assessments of Harbor Seal Population Trends

During 2000, 2004, and 2008, surveyed households were asked to make subjective assessments of harbor seal population trends in their hunting areas. In 2000 and 2004, households were asked "Compared to 5 years ago, has the harbor seal population where members of your household have hunted 'increased,' 'remained stable,' 'declined,' 'do not know,' or 'not applicable (do not hunt)'?" It is useful to display these subjective assessments of local population trends, comparing 2000 with 1995, comparing 2004 with 1999, and comparing 2008 with previous assessments (Table 9). Responses of "do not know" or "not applicable (do not hunt)" are removed in this analysis.

In almost all regions, a portion of households reported that local harbor seal populations had "increased," "remained stable," or "declined." In 2008, "increased" and "stable" were the most common responses for all regions (Table 9). Comparing 2004 with 1999, a majority of hunters reported "increased" seal populations in Kodiak Island (52.9%), South Bristol Bay (54.2%), and Upper Kenai–Cook Inlet (57.1%). In 2004, "stable" seal populations was the most common assessment in all other regions, except for the Aleutian Islands, where one-half of the hunters reported that populations "declined." Notable shifts in hunter assessments of trends comparing 2008 with 2000 are apparent for the North Pacific Rim (from 60.0% "declined" to

51.9% "increased"), Kodiak Island (from 18.7% "increased" to 39.0% "increased"), Southeast (from 10.1% "declined" to 21.5% "declined"), and South Alaska Peninsula (from 55.8% "declined" to 62.5% "stable"). Overall, based on hunter assessments of recent trends, harbor seal populations in most regions were primarily judged to be "stable" or "increased" in 2008.

Table 9.–Local harbor seal population changes compared to previous years, hunters' assessments.

| Com | paring | 2000 | with | 1995 |
|-----|--------|------|------|------|
| | | | | |

| | Remained | | | | |
|------------------------|-----------|--------|----------|--|--|
| Region | Increased | Stable | Declined | | |
| Southeast | 43.6% | 46.3% | 10.1% | | |
| North Pacific Rim | 5.7% | 34.3% | 60.0% | | |
| Kodiak Island | 18.7% | 48.0% | 33.3% | | |
| South Alaska Peninsula | 19.5% | 24.7% | 55.8% | | |
| Aleutian Islands | 23.1% | 38.5% | 38.5% | | |
| South Bristol Bay | 60.0% | 37.5% | 2.5% | | |
| North Bristol Bay* | 2.6% | 38.9% | 58.5% | | |

Comparing 2004 with 1999

| | Remained | | | | |
|--------------------------|-----------|--------|----------|--|--|
| Region | Increased | Stable | Declined | | |
| Southeast | 29.9% | 41.6% | 28.5% | | |
| North Pacific Rim | 17.9% | 60.7% | 21.4% | | |
| Upper Kenai - Cook Inlet | 57.1% | 42.9% | 0.0% | | |
| Kodiak Island | 52.9% | 37.3% | 9.8% | | |
| South Alaska Peninsula | 15.4% | 69.2% | 15.4% | | |
| Aleutian Islands | 0.0% | 50.0% | 50.0% | | |
| South Bristol Bay | 54.2% | 41.7% | 4.2% | | |
| North Bristol Bay* | 12.5% | 59.4% | 28.1% | | |

Current Assessment (2008)

| | | Remained | |
|-----------------------------|-----------|----------|----------|
| Region (Hunters Reporting) | Increased | Stable | Declined |
| Southeast (93) | 46.2% | 32.3% | 21.5% |
| North Pacific Rim (27) | 51.9% | 33.3% | 14.8% |
| Upper Kenai-Cook Inlet (7) | 28.6% | 71.4% | 0.0% |
| Kodiak Island (59) | 39.0% | 39.0% | 22.0% |
| South Alaska Peninsula (16) | 31.3% | 62.5% | 6.3% |
| Aleutian Islands (14) | 14.3% | 64.3% | 21.4% |
| South Bristol Bay (23) | 52.2% | 47.8% | 0.0% |
| North Bristol Bay* (52) | 19.2% | 63.5% | 17.3% |
| All Regions (291) | 38.1% | 44.7% | 17.2% |
| | | | |

^{*} May refer primarily to spotted seals in a mixed seal population.

THE SUBSISTENCE TAKE OF SEA LIONS IN 2008

Estimated Size of the Sea Lion Take, 2008

The estimated size of the total take of Steller sea lions by Alaska Natives in 2008 is presented in Tables 10 and 11. In 2008, an estimated 146 sea lions were taken by Alaska Natives for subsistence uses (with a 95% confidence range of between 106 to 224 animals) (Table 10). Of the 2008 subsistence take, 20.3% (30 sea lions) were struck and lost, and 79.7% (116 sea lions) were harvested.

Geographic Distribution of Sea Lion Takes

Table 11 shows the regional distribution of sea lion takes in 2008 by Alaska Natives. In 2008, the takes were split among 4 main regions: the Aleutian Islands (48 sea lions, or 33.1% of the total statewide take of sea lions), the Pribilof Islands (36 sea lions, or 24.7%), the North Pacific Rim (25 sea lions, or 16.8%), and Kodiak Island (19 sea lions, or 12.9%). Other regions taking sea lions were the Southeast region (10 sea lions, or 6.6%) and the South Alaska Peninsula (9 sea lions, or 5.9%) (Table 11).

The geographic distribution of sea lion takes by community is shown in Table 12. In 2008, 18 of 63 surveyed communities reported taking sea lions. Eight communities had takes of 5 or more sea lions in 2008. Ten more communities reported a take of fewer than 5 sea lions each. The 5 top ranking communities were Atka (35 sea lions), St. Paul (22 sea lions), Tatitlek (20 sea lions), St. George (14 sea lions), and Old Harbor (11 sea lions). These 5 communities accounted for 101 sea lions, or 69.4% of the total Alaska take.

Table 10.—Estimated subsistence takes of sea lions (*Eumetopias jubatus*) by Alaska Natives, 1992–2008.

| | Est | timated To | Lower and Upper | | | |
|------|-------|-------------|-----------------|------------|-------|--|
| - | | Struck | Total | Confidence | Range | |
| | | | Take | for Total | | |
| 1992 | 370 | | 549 | 452 - | 712 | |
| | 67.4% | 32.6% | 100.0% | | | |
| 1993 | 348 | 139 | 487 | 390 - | 629 | |
| | 71.4% | 28.6% | 100.0% | | | |
| 1994 | 336 | 80 | 416 | 330 - | 554 | |
| | 80.8% | 19.2% | 100.0% | | | |
| 1995 | 307 | 32 | 339 | 258 - | 465 | |
| | 90.5% | | 100.0% | _00 | .00 | |
| 4000 | | | | 405 | 220 | |
| 1996 | 152 | 34 18.3% | 186 | 165 - | 220 | |
| | | | | | | |
| 1997 | | _ | 164 | 132 - | 227 | |
| | 89.1% | 10.9% | 100.0% | | | |
| 1998 | 131 | 47 | 178 | 137 - | 257 | |
| | 73.6% | 26.4% | 100.0% | | | |
| 2000 | 146 | 24 | 171 | 121 - | 244 | |
| | 85.5% | | 99.4% | | | |
| | | | | | | |
| 2001 | 156 | | | 162 - | 282 | |
| | 78.7% | 21.3% | 100.0% | | | |
| 2002 | 144 | 41 | 185 | 145 - | 248 | |
| | 77.9% | 22.1% | 100.0% | | | |
| 2003 | 165 | 47 | 212 | 149 - | 303 | |
| | | 22.0% | | | | |
| | | | | | | |
| 2004 | 154 | 61 | 216 | 147 - | 335 | |
| | 71.6% | 28.4% | 100.0% | | | |
| 2005 | 162 | 56 | 218 | 169 - | 301 | |
| | | 25.5% | | | | |
| | | | | | | |
| 2006 | 137 | | 186 | 125 - | 289 | |
| | 73.5% | 26.5% | 100.0% | | | |
| 2007 | 166 | 51 | 217 | 147 - | 324 | |
| | | 23.6% | | | | |
| | | | | | | |
| 2008 | 116 | | 146 | 106 - | 224 | |
| | 79.7% | 20.3% | 100.0% | | | |

Table 11.–Regional distribution of subsistence takes of sea lions (*Eumetopias jubatus*) by Alaska Natives, 2008, with confidence intervals and statistical ranges.

| | | | | Т | otal Take | | | | |
|---------------------------|-------|-----------------------------------|--------------|----------------------------------|----------------------------|----------------------------|------------------------------------|--------------------------|-------------------------------|
| Region | Esti | mated Te Struck and Lost | otal Take | Confidence Interval (+/-)% | Lower Range Estimate | Upper Range Estimate | Percentage of Take by Region | Per Capita Harvest | Struck and Lost Rate |
| Southeast | 1.7 | 8.0 | 9.6 | 71.5% | 8.0 | 16.5 | 6.6% | 0.00 | 82.7% |
| North Pacific Rim | 20.3 | 4.3 | 24.6 | 38.3% | 22.0 | 34.0 | 16.8% | 0.01 | 17.6% |
| Upper Kenai–Cook Inlet | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 | 0.0% | 0.00 | 0.0% |
| Kodiak Island | 12.1 | 6.7 | 18.8 | 26.8% | 17.0 | 23.8 | 12.9% | 0.01 | 35.4% |
| South Alaska Peninsula | 7.2 | 1.4 | 8.6 | 124.3% | 5.0 | 19.2 | 5.9% | 0.01 | 16.1% |
| Aleutian Islands | 45.8 | 2.6 | 48.4 | 83.3% | 24.0 | 88.7 | 33.1% | 0.06 | 5.3% |
| Pribilof Islands | 29.3 | 6.7 | 36.0 | 0.0% | 30.0 | 42.0 | 24.7% | 0.05 | 18.5% |
| South Bristol Bay | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 | 0.0% | 0.00 | 0.0% |
| North Bristol Bay | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 | 0.0% | 0.00 | 0.0% |
| ALASKA | 116.4 | 29.6 | 146.0 | 53.6% | 106.0 | 224.3 | 100.0% | 0.0022 | 20.3% |
| Percentage of Take | 79.7% | 20.3% | 100.0% | | | | | | |

Table 12.—Subsistence sea lion harvest, take, and use by Alaska Natives, 2008, with confidence intervals and statistical ranges, by community.

| | | | | | | | ٦ | Total Take | |
|------------|------------------------------------|---|--|---------|-----------------------|---------------|-----------------------------------|----------------------------|----------------------------|
| | Sea Lion Harvests Per Capita | Native Households Harvesting Sea Lions | Native Households Using Sea Lions | Harvest | Struck and Lost | Total Take | Confidence Interval (+/- %) | Lower Range Estimate | Upper Range Estimate |
| SOUTHEAS | | | | | | | , | | |
| Angoon | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Craig | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Haines | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Hoonah | .00 | 0.0% | 0.0% | 0.0 | 6.3 | 6.3 | 43.8% | 6.0 | 9.1 |
| Hydaburg | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Juneau | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Kake | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Ketchikan | .00 | 16.7% | 16.7% | 1.7 | 1.7 | 3.3 | 124.0% | 2.0 | 7.5 |
| Klawock | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Klukwan | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Pelican | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Petersburg | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Saxman | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Sitka | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Wrangell | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Yakutat | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |

-continued-

Table 12, continued.

| | | | | | | | ٦ | Total Take | |
|------------------------|------------------------------------|---|--|-------------|-----------------------|---------------|-----------------------------------|----------------------------|----------------------------|
| | Sea Lion Harvests Per Capita | Native Households Harvesting Sea Lions | Native Households Using Sea Lions | Harvest | Struck and Lost | Total Take | Confidence Interval (+/- %) | Lower Range Estimate | Upper Range Estimate |
| NORTH PAC | CIFIC RIM | | | | | | | | |
| Chenega | | | | | | | | | |
| Bay | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Cordova | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Nanwalek | .01 | 2.2% | 23.9% | 1.0 | 1.0 | 2.0 | 28.6% | 2.0 | 2.6 |
| Port | 00 | 2.40/ | 40.00/ | 2.0 | 0.0 | 2.0 | 400 40/ | 2.0 | F.C |
| Graham | .02 | 3.1% | 18.8% | 2.8 | 0.0 | 2.8 | 102.4% | 2.0 | 5.6 |
| Seldovia | .00 .00 | 0.0% 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Seward Tatitlek | .00 .18 | 20.0% | 0.0% 55.0% | 0.0 | 0.0 | 0.0 | 0.0% 30.5% | 0.0 18.0 | 0.0 25.8 |
| Valdez | .10 | 0.0% | 0.0% | 16.5 0.0 | 3.3 0.0 | 19.8 0.0 | 0.0% | 0.0 | 25.6 0.0 |
| | .00 IAI–COOK IN | | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Anchorage | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Homer | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Kenai | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Tyonek | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| KODIAK ISL | | 0.070 | 0.070 | 0.0 | 0.0 | 0.0 | 0.070 | 0.0 | 0.0 |
| Akhiok | .03 | 9.1% | 13.6% | 2.1 | 3.1 | 5.2 | 28.8% | 5.0 | 6.7 |
| Karluk | .00 | 0.0% | n/a | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Kodiak City | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Larsen Bay | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Old Harbor | .03 | 7.8% | 56.3% | 7.0 | 3.5 | 10.5 | 33.3% | 9.0 | 14.1 |
| Ouzinkie | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Port Lions | .02 | 13.3% | 13.3% | 3.0 | 0.0 | 3.0 | 0.0% | 3.0 | 3.0 |
| SOUTH ALA | SKA PENIN | SULA | | | | | | | |
| Chignik Bay | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Chignik | | | | | | | | | |
| Lagoon | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Chignik | 00 | 0.00/ | 0.00/ | 0.0 | 0.0 | 0.0 | 0.00/ | 0.0 | 0.0 |
| Lake | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| False Pass | .00 | 0.0% | 0.0% | 0.0 | 1.4 | 1.4 | 102.4% | 1.0 | 2.8 |
| Ivanof Bay | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| King Cove | .00 | 9.1% | 9.1% | 1.3 | 0.0 | 1.3 | 90.7% | 1.0 | 2.4 |
| Perryville | .02 | 7.7% | 7.7% | 2.6 | 0.0 | 2.6 | 154.0% | 1.0 | 6.6 |
| Sand Point ALEUTIAN | .01 | 5.9% | 11.8% | 3.3 | 0.0 | 3.3 | 122.8% | 2.0 | 7.3 |
| ISLANDS | | | | | | | | | |
| Adak | .00 | 100.0% | 100.0% | 4.0 | 0.0 | 4.0 | 0.0% | 4.0 | 4.0 |
| Akutan | .04 | 9.1% | 54.5% | 4.2 | 0.0 | 4.2 | 27.9% | 4.0 | 5.4 |
| Atka | .42 | 40.0% | 90.0% | 35.0 | 0.0 | 35.0 | 97.3% | 14.0 | 69.0 |
| Nikolski | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Unalaska | .01 | 14.3% | 28.6% | 2.6 | 2.6 | 5.1 | 98.9% | 2.0 | 10.2 |
| PRIBILOF IS | | | _3.0,3 | | | 5 | | | - |
| St. George | .07 | 100.0% | 100.0% | 9.3 | 4.7 | 14.0 | 42.8% | 8.0 | 20.0 |
| St. Paul* | n/a | n/a | n/a | 20.0 | 2.0 | 22.0 | 0.0% | 22.0 | 22.0 |
| | | | | ntinued- | | | | | |

-continued-

Table 12, continued.

| | | | | | | | ٦ | Total Take | |
|-------------|------------|------------|------------|---------|--------|-------|------------|------------|----------|
| | | Native | Native | | | | | | |
| | Sea Lion | Households | Households | | Struck | | Confidence | Lower | Upper |
| | Harvests | Harvesting | Using Sea | | and | Total | Interval | Range | Range |
| OCUTU DDI | Per Capita | Sea Lions | Lions | Harvest | Lost | Take | (+/- %) | Estimate | Estimate |
| SOUTH BRI | | | | | | | | | |
| Egegik | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| King | | | | | | | | | |
| Salmon | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Levelock | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Naknek | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Pilot Point | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Port Heiden | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| South | | | | | | | | | |
| Naknek | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| NORTH BRI | STOL BAY | | | | | | | | |
| Aleknagik | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Clark's | | | | | | | | | |
| Point | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Dillingham | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Manokotak | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Togiak | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| Twin Hills | .00 | 0.0% | 0.0% | 0.0 | 0.0 | 0.0 | 0.0% | 0.0 | 0.0 |
| | | | | | | | | | |
| ALASKA TO | TAL | | | 116.4 | 29.6 | 146.0 | 53.6% | 106.0 | 224.3 |

^{*} St. Paul's 2008 data from Jones (2009).

Seasonal Distribution of Sea Lion Takes

The seasonal distribution of the sea lion take in 2008 is depicted in Figures 4 and 6. Sea lions were reported taken during every month in 2008. Productivity was greatest in March through April and September through November, and was lowest in June through July. The monthly productivity of sea lion hunting in 2008 showed a mid range of productivity compared with recent years. Overall, productivity was substantially poorer compared with the period 1992 through 1996. The declines of productivity during both the spring and fall periods are particularly notable in Figure 6. Seasonal hunting patterns of regions and communities are depicted in appendices B and C.

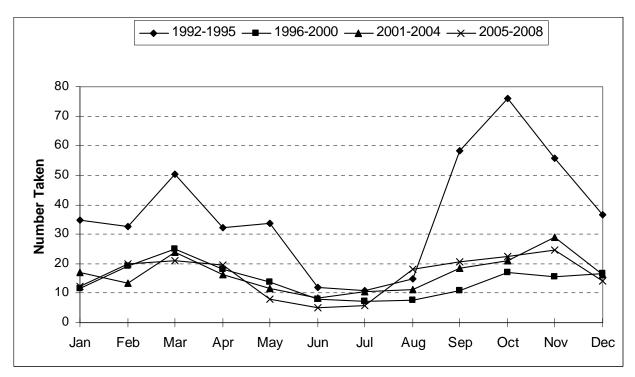


Figure 6.–Mean seasonally adjusted takes of sea lions by Alaska Natives, 1992–1995, 1996–2000, 2001–2004, and 2005–2008.

Age and Sex Composition of Sea Lion Harvests

The reported age and sex compositions of the 2008 sea lion harvests are shown in Tables 13 and 14. Hunters reported harvesting male over female sea lions by a ratio of about 2.9 to 1 (70 males to 24 females of animals with sex reported) (Figure 26). In 2008, hunters reported taking juvenile over adult sea lions by a ratio of 1.3 to 1. No sea lion pups were taken. From 1992 to 1995, juvenile harvests outnumbered adult harvests by at least 2 to 1: 2.3 juveniles to 1 adult (1992), 1.9 (1993), 2.2 (1994), and 2.0 (1995). Since 1996, the ratio of juveniles to adults decreased substantially: 1.0 juveniles to 1 adult (1996), 1.4 (1997), 0.7 (1998), 1.0 (2000), 0.9 (2001). Juvenile sea lion harvests were substantially less than adult harvests for the first time in 2002 (0.5 to 1), followed by ratios of 0.5 (2003), 0.7 (2004), 0.5 (2005), 0.6 (2006) and 1.0 (2007). Adult females (15 animals) comprised about 16.5% of the total harvest of sea lions of known age and sex in 2008. Hunters did not report the sex for

19.4% of the harvest or the age for about 13.2% of the harvest. The age and sex also are unknown for sea lions that were struck and lost by surveyed hunters.

Table 13.-Age and sex composition of sea lion harvests by Alaska Natives, 2008.

| | | Unknown | | | | |
|--------------------|--------|---------|--------|---------|--|--|
| | Male | Female | Sex | Total | | |
| Adult | 27.5 | 15.4 | 0.0 | 42.9 | | |
| Row Percent | 64.2% | 35.8% | 0.0% | 100.0% | | |
| Column Percent | 39.4% | 64.2% | 0.0% | 36.8% | | |
| | | | | | | |
| Juvenile | 42.4 | 7.5 | 8.3 | 58.2 | | |
| Row Percent | 72.9% | 12.9% | 14.2% | 100.0% | | |
| Column Percent | 60.6% | 31.4% | 36.7% | 50.0% | | |
| Pup | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Row Percent | 0.0% | 0.0% | 0.0% | 0.0% | | |
| Column Percent | 0.0% | 0.0% | 0.0% | 0.0% | | |
| Unknown Age | 0.0 | 1.0 | 14.3 | 15.3 | | |
| Row Percent | 0.0% | 6.8% | 93.2% | 100.0% | | |
| Column Percent | 0.0% | 4.4% | 63.3% | 13.2% | | |
| Oolalliil i ercent | 0.070 | 7.770 | 03.370 | 13.2 /0 | | |
| Total | 70.0 | 23.9 | 22.5 | 116.4 | | |
| Row Percent | 60.1% | 20.5% | 19.4% | 100.0% | | |
| Column Percent | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 14.–Age and sex composition of sea lion harvests by Alaska Natives by region, 2008.

Llonor

| | | | Upper | | | | | | | |
|----------------------|-----------|---------|--------|--------|-----------|----------|----------|---------|---------|--------|
| | | North | Kenai- | | South | | | South | North | |
| | | Pacific | Cook | Kodiak | Alaska | Aleutian | Pribilof | Bristol | Bristol | |
| AGE AND SEX | Southeast | Rim | Inlet | Island | Peninsula | Islands | Islands | Bay | Bay | Alaska |
| Adult Male | 0.0 | 1.1 | 0.0 | 7.0 | 3.9 | 13.2 | 2.3 | 0.0 | 0.0 | 27.5 |
| Adult Female | 0.0 | 3.5 | 0.0 | 0.0 | 3.3 | 8.6 | 0.0 | 0.0 | 0.0 | 15.4 |
| Adult Unknown Sex | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Juvenile Male | 0.0 | 1.4 | 0.0 | 4.0 | 0.0 | 10.0 | 27.0 | 0.0 | 0.0 | 42.4 |
| Juvenile Female | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5 | 0.0 | 0.0 | 0.0 | 7.5 |
| Juvenile Unknown Sex | 1.7 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 |
| Pup Male | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pup Female | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pup Unknown Sex | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Male Unknown Age | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Female Unknown Age | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| Unknown Age and Sex | 0.0 | 7.7 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | 0.0 | 14.3 |
| TOTAL | 1.7 | 20.3 | 0.0 | 12.1 | 7.2 | 45.8 | 29.3 | 0.0 | 0.0 | 116.4 |
| | | | | | | | | | | |
| AGE ONLY | | | | | | | | | | |
| Adult | 0.0 | 4.6 | 0.0 | 7.0 | 7.2 | 21.7 | 2.3 | 0.0 | 0.0 | 42.9 |
| Juvenile | 1.7 | 8.0 | 0.0 | 4.0 | 0.0 | 17.5 | 27.0 | 0.0 | 0.0 | 58.2 |
| Pup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Unknown Age | 0.0 | 7.7 | 0.0 | 1.0 | 0.0 | 6.6 | 0.0 | 0.0 | 0.0 | 15.3 |
| TOTAL | 1.7 | 20.3 | 0.0 | 12.1 | 7.2 | 45.8 | 29.3 | 0.0 | 0.0 | 116.4 |
| | | | | | | | | | | |
| SEX ONLY | | | | | | | | | | |
| Male | 0.0 | 2.5 | 0.0 | 11.1 | 3.9 | 23.2 | 29.3 | 0.0 | 0.0 | 70.0 |
| Female | 0.0 | 3.5 | 0.0 | 1.0 | 3.3 | 16.1 | 0.0 | 0.0 | 0.0 | 23.9 |
| Unknown Sex | 1.7 | 14.3 | 0.0 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 | 0.0 | 22.5 |
| TOTAL | 1.7 | 20.3 | 0.0 | 12.1 | 7.2 | 45.8 | 29.3 | 0.0 | 0.0 | 116.4 |
| | | | | | | | | | | |

Hunter Assessments of Sea Lion Population Trends

During 2000, 2004, and 2008, surveyed households were asked to make subjective assessments of sea lion population trends in their hunting areas. In 2000 and 2004, households were asked "Compared to 5 years ago, has the sea lion population where members of your household have hunted 'increased,' 'remained stable,' 'declined,' 'do not know,' or 'not applicable (do not hunt)'?" It is useful to show these subjective assessments of population trends, comparing 2000 with 1995, comparing 2004 with 1999, and comparing 2008 with previous assessments (Table 15). Responses of "do not know" or "not applicable (do not hunt)" are removed in this analysis.

Comparing 2000 with 1995, a majority of households in all regions reported that local sea lion populations had "declined" in household hunting areas. These subjective assessments of population trends had substantially changed by 2004 in 3 regions. Comparing 2004 with 1999, a majority of hunters judged sea lions populations to be "increased" or "stable" in the Southeast, North Pacific Rim, and Kodiak Island regions. In these 3 regions, 16.7% or less of hunters reported sea lion populations had "declined" comparing 2004 with 1999. By contrast, in the South Alaska Peninsula, 66.7% of hunters reported sea lion populations had "declined" comparing 2004 with 1999, similar to the assessment comparing 2000 with 1995 (63.6% of hunters reported "declined"). In the Aleutian Islands, one-half of surveyed hunters assessed that sea lion populations had "declined" comparing 2004 with 1999, while the other half assessed populations as "stable." By 2008, "increased" or "stable" sea lion populations were the most common assessments of hunters in all regions (Table 15). No hunters reported that their local sea lion populations were in decline. However, these assessments were based on relatively small numbers of respondents for this question in 2008.

Table 15.–Local sea lion population changes compared to previous years, hunters' assessments.

| Cami | narina | 2000 | 14/14/ | - 100E |
|------|--------|------|--------|--------|
| Com | paring | 2000 | WILI | h 1995 |

| | Remained | | | | | |
|------------------------|-----------|--------|----------|--|--|--|
| Region | Increased | Stable | Declined | | | |
| Southeast | 41.8% | 5.5% | 52.7% | | | |
| North Pacific Rim | 9.1% | 24.2% | 66.7% | | | |
| Kodiak Island | 17.9% | 3.6% | 78.6% | | | |
| South Alaska Peninsula | 24.2% | 12.1% | 63.6% | | | |
| Aleutian Islands | 15.7% | 31.4% | 52.9% | | | |
| Bristol Bay | 33.3% | 11.1% | 55.6% | | | |

Comparing 2004 with 1999

| | Remained | | | | | |
|------------------------|-----------|--------|----------|--|--|--|
| Region | Increased | Stable | Declined | | | |
| Southeast | 66.7% | 16.7% | 16.7% | | | |
| North Pacific Rim | 45.5% | 45.5% | 9.1% | | | |
| Kodiak Island | 41.7% | 41.7% | 16.7% | | | |
| South Alaska Peninsula | 0.0% | 33.3% | 66.7% | | | |
| Aleutian Islands | 0.0% | 50.0% | 50.0% | | | |

-continued-

Table 15, continued.

Current Assessment (2008)

| | | Remained | |
|----------------------------|-----------|----------|----------|
| Region (Hunters Reporting) | Increased | Stable | Declined |
| Southeast (1) | 100.0% | 0.0% | 0.0% |
| North Pacific Rim (4) | 50.0% | 50.0% | 0.0% |
| Kodiak Island (3) | 0.0% | 100.0% | 0.0% |
| South Alaska Peninsula (3) | 66.7% | 33.3% | 0.0% |
| Aleutian Islands (5) | 60.0% | 40.0% | 0.0% |
| All Regions (16) | 50.0% | 50.0% | 0.0% |

HUNTING PARTICIPATION AND EFFORT

In calendar year 2008, about 546 households hunted harbor seals and 57 households hunted sea lions (Table 16). Since 1992, there has been a substantial decline in the numbers of hunters for harbor seals and for sea lions (Figure 7). Based on survey findings, the estimated numbers of households that reported a member hunting harbor seals were 1,014 (1992), 854 (1993), 971 (1994), 805 (1995), 859 (1996), 738 (1997), 707 (1998), 745 (2000), 575 (2001), 600 (2002), 564 (2003), 535 (2004), 517 (2005), 540 (2006), and 497 (2007). The estimated numbers of households that reported a member hunting sea lions were 135 (1992), 147 (1993), 154 (1994), 123 (1995), 95 (1996), 75 (1997), 76 (1998), 86 (2000), 98 (2001), 90 (2002), 97 (2003), 98 (2004), 68 (2005), 57 (2006), and 75 (2007) (these exclude St. Paul because the number of hunters is not available for years after 1998).

Table 16.–Alaska Native households hunting or harvesting harbor seals or sea lions, 1992–2008.

| | H | ARBOR SEALS | | | SEA LIONS* | |
|------|-----------------------|--------------------------|-----------------|-----------------------|--------------------------|-----------------|
| Year | Households Hunting | Households Harvesting | Success Rate | Households Hunting | Households Harvesting | Success Rate |
| 1992 | 1,014 | 724 | 71.4% | 135 | 91 | 67.2% |
| 1993 | 854 | 638 | 74.7% | 147 | 86 | 58.7% |
| 1994 | 971 | 608 | 62.6% | 154 | 84 | 54.5% |
| 1995 | 805 | 597 | 74.2% | 123 | 92 | 74.3% |
| 1996 | 859 | 619 | 72.1% | 95 | 68 | 71.6% |
| 1997 | 738 | 588 | 79.7% | 75 | 62 | 82.2% |
| 1998 | 707 | 607 | 85.9% | 76 | 54 | 71.7% |
| 2000 | 745 | 620 | 83.2% | 86 | 70 | 81.4% |
| 2001 | 575 | 491 | 85.4% | 98 | 78 | 79.6% |
| 2002 | 600 | 495 | 82.5% | 90 | 70 | 77.8% |
| 2003 | 564 | 453 | 80.3% | 97 | 76 | 78.4% |
| 2004 | 535 | 457 | 85.4% | 98 | 76 | 77.6% |
| 2005 | 517 | 454 | 87.8% | 68 | 56 | 82.4% |
| 2006 | 540 | 464 | 85.9% | 57 | 51 | 89.5% |
| 2007 | 497 | 416 | 83.7% | 75 | 67 | 89.3% |
| 2008 | 546 | 452 | 82.8% | 57 | 50 | 87.7% |

^{*} Excludes St. Paul.

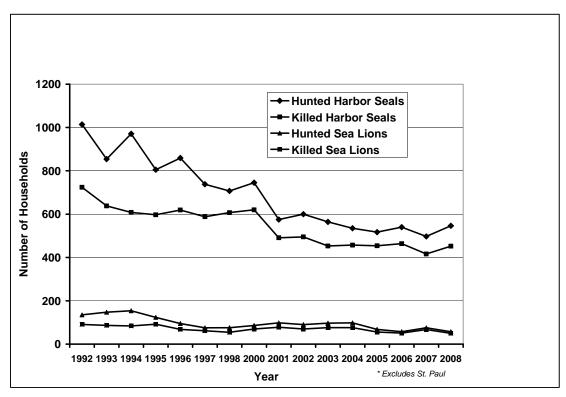


Figure 7.—Trends in the numbers of households hunting harbor seals and sea lions, 1992–2008. Note: Excludes St. Paul.

The percentage of hunting households that reported hunting unsuccessfully for harbor seals in 2008 was 17.2%, compared with 28.6% (1992), 25.3% (1993), 37.4% (1994), 25.8% (1995), 27.9% (1996), 20.3% (1997), 14.1% (1998), 16.8% (2000), 14.6% (2001), 17.5% (2002), 19.7% (2003), 14.6% (2004), 12.2% (2005), 14.1% (2006), and 16.3% (2007). Seal hunter success rates have improved while the number of hunters has fallen. The percentage of unsuccessful hunting households for sea lions was 12.3% in 2008, compared with 32.8% (1992), 41.3% (1993), 45.4% (1994), 25.7% (1995), 28.4% (1996), 17.8% (1997), 28.3% (1998), 18.6% (2000), 20.4% (2001), 22.2% (2002), 21.6% (2003), 22.4% (2004), 17.6% (2005), 10.5% (2006) and 10.7% (2007) (these exclude St. Paul, because the number of hunters is not available for years after 1998).

In the 2000 survey cycle, surveyed households were asked to make a subjective assessment of their hunting effort in 2000 compared with 5 years before. Households were asked "Compared to 5 years ago, does harbor seal hunting now take your household 'more time and effort,' 'about the same time and effort,' 'less time and effort,' 'hunted then but now stopped,' or 'not applicable (no hunting last 5 years)'?" A similar question was asked for sea lion hunting. This information is useful to display here, although it pertains to the year 2000 compared with 1995 through 1999. The subjective assessments for hunting households are shown in tables 17 and 18 (responses of households not hunting during the previous 5 years are removed in this analysis).

In all regions, a portion of hunting households reported "more," the "same," or "less" time and effort in hunting harbor seals in 2000 (Table 17). In the Southeast region, where most harbor seals are taken, about 54.7% reported taking the "same time and effort" for hunting seals, while 30.2% reported taking "less time and effort." Only 8.7% of households reported taking "more time and effort" compared with the prior 5 years. By contrast, larger percentages of households reported taking "more time and effort" in seal hunting in the Aleutian Islands (42.6%), North Pacific Rim (33.7%), and Kodiak Island (29.5%). In the North Pacific Rim and Kodiak Island regions, a substantial percentage of households reported that they had stopped

hunting harbor seals sometime during the prior 5 years: 17.4% (North Pacific Rim) and 20.0% (Kodiak Island).

Table 18 shows the subjective assessments of sea lion hunting time and effort by region. As with harbor seals, in all regions some households reported "more," the "same," or "less" time and effort in hunting sea lions in 2000 compared with 1995 through 1999. More than one-half of the households reported taking "more time and effort" in hunting sea lions in the Aleutian Islands (67.3%) and the Kodiak Islands (55.3%). In the North Pacific Rim, 44.7% reported taking the "same time and effort" and 28.9% reported "less time and effort." A relatively large percentage of households reported that they had stopped hunting sea lions during the prior 5 years in the South Alaska Peninsula (37.5%) and Kodiak Island (21.1%).

Table 17.–Time and effort spent hunting harbor seals in 2000 compared with five years ago, hunters' assessments.

| Region | More Time and Effort | Same Time and Effort | Less Time and Effort | Hunted Then but Have Stopped |
|------------------------|-------------------------|-------------------------|-------------------------|---------------------------------------|
| | | | | · · · · · · · · · · · · · · · · · · · |
| Southeast Alaska | 8.7% | 54.7% | 30.2% | 6.4% |
| North Pacific Rim | 33.7% | 34.9% | 14.0% | 17.4% |
| Kodiak Island | 29.5% | 38.9% | 11.6% | 20.0% |
| South Alaska Peninsula | 23.0% | 31.1% | 41.9% | 4.1% |
| Aleutian Islands | 42.6% | 34.0% | 23.4% | 0.0% |
| South Bristol Bay | 15.9% | 52.3% | 22.7% | 9.1% |
| North Bristol Bay* | 41.3% | 37.7% | 11.1% | 9.8% |

^{*} May refer primarily to spotted seals in North Bristol Bay's mixed harbor seal-spotted seal population.

Table 18.—Time and effort spent hunting sea lions in 2000 compared with five years ago, hunters' assessments.

| Region | More Time and Effort | Same Time and Effort | Less Time and Effort | Hunted Then but Have Stopped |
|------------------------|-------------------------|-------------------------|-------------------------|---------------------------------|
| North Pacific Rim | 18.4% | 44.7% | 28.9% | 7.9% |
| Kodiak Island | 55.3% | 21.1% | 2.6% | 21.1% |
| South Alaska Peninsula | 12.5% | 12.5% | 37.5% | 37.5% |
| Aleutian Islands | 67.3% | 21.2% | 5.8% | 5.8% |

Hunting harbor seals or sea lions is a relatively specialized subsistence activity in Alaska communities. The large majority of Native households in the study's sampling universe did not

attempt to hunt harbor seals or sea lions. In 2008, 69.6% of surveyed households did not hunt harbor seals and 96.8% did not hunt sea lions. Among hunters, there also was substantial specialization in productivity (Figure 8). A relatively small core of highly productive hunters reported most of the subsistence takes during 2008, similar to previous years. About 30% of the hunters reported taking about 70% of all harbor seals and sea lions (Figure 8). Highly productive hunters commonly distributed marine mammal products to other households through noncommercial networks of sharing and trade.

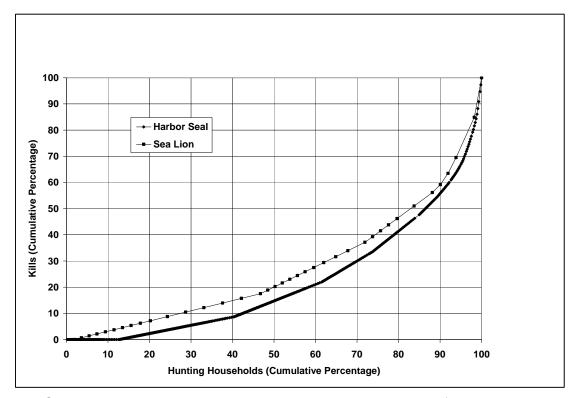


Figure 8.—Specialization in harbor seal and sea lion takes: percentage of hunting households by percentage of take, 2008.

DISCUSSION

Somewhat different trends characterize the subsistence takes of harbor seals and sea lions since 1992. At the statewide level, subsistence takes of harbor seals have been declining since about 1995, while subsistence takes of sea lions have leveled off after declining substantially during the early 1990s. The following section discusses trends in more detail for each species, examining total take, age of harvest, and sex of harvest broken out by region.

Harbor Seal Subsistence Trends, 1992–2008

At the state level, subsistence takes of harbor seals have been declining since about 1995 (when 2,742 seals were taken) to a low in 2007 (1,428 seals), the lowest take since surveys began in 1992 (Table 4; Figure 9). Comparing consecutive paired survey years since 1992, harbor seal takes have declined in 10 of the years, increased in 4 of the years, and remained unchanged in 1 year (Figure 24). This indicates a declining trend in the annual subsistence takes of harbor seals in Alaska. The total take of harbor seals in 2008 (1,462 seals) was 51.2% lower than takes in 1992 (2,854 seals) and 2.4% higher than takes in 2007 (1,428 seals) (Figure 24). In terms of seasons, the decreasing takes of harbor seals have been occurring across all the major hunting periods (spring and fall–early winter) (Figure 5).

Harbor seal populations in Alaska are divided into 3 stocks for biological assessment: the Southeast Alaska stock, the Gulf of Alaska stock, and the Bering Sea stock. Harbor seal takes from the 3 stocks are shown in Figure 11. Total annual takes from the Southeast Alaska stock showed an overall decline of 64.3% from 1992 to 2008 (from 1,666 to 594 seals). Takes from the Gulf of Alaska stock in 2008 (680 seals) were about 28.1% lower than the takes in 1992 (946 seals), which was similar to a low of 688 seals taken in 2002. Takes from the Bering Sea stock have declined from 243 seals in 1992 to 188 seals in 2008, a decrease of about 22.6%. Regional takes are shown in Figure 12. Annual harbor seal takes show the clearest downward trend in Southeast Alaska. While harbor seal takes in the other regions also appear to be in downward directions, the trends are less clear than for the Southeast region.

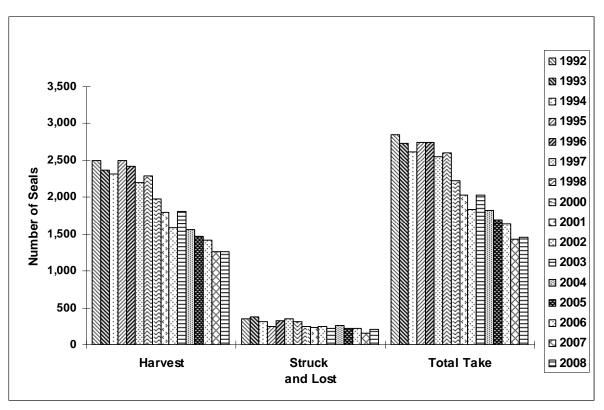


Figure 9.-Estimated subsistence takes of harbor seals by Alaska Natives, 1992-2008.

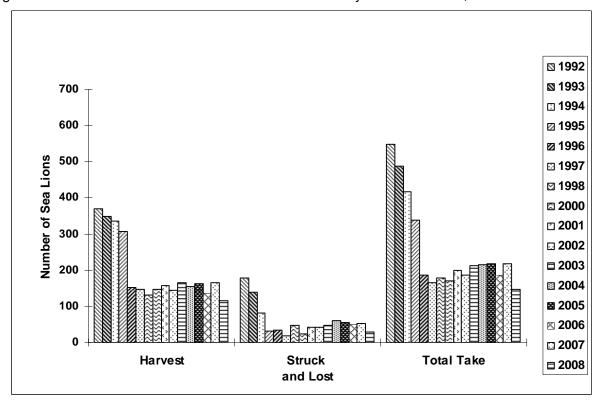
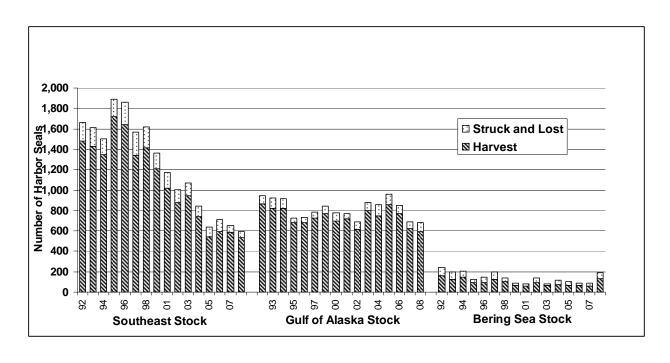


Figure 10.–Estimated subsistence takes of sea lions by Alaska Natives, 1992–2008.

The reasons for declining harbor seal takes are uncertain. Overall, it appears that the decline in harbor seal harvests is associated with fewer seal hunters on a statewide basis (Figure 7, Table 16). Between-year fluctuations in harvests at the community level are influenced in part by such local conditions as food needs, prey availability, and personal circumstances of hunters. A closer examination of trends in 6 selected communities (Hoonah, Nanwalek, Old Harbor, Sitka, Tatitlek, and Yakutat) allows us to see the interplay of factors, such as the numbers of hunters, hunting success, and harvest rates in particular locations (Figures 14–19). For example, at Hoonah and Yakutat, major harbor seal hunting communities (Figure 14 and Figure 15), there have been fewer hunters and lower harvest rates per successful hunter in recent years, resulting in declining numbers of seals harvested. At Sitka (Figure 16) there were fewer harbor seal hunters but relatively stable harvest rates per successful hunter in recent years, except for success rates in 2005. As shown in Figure 17, seal hunting at Tatitlek rebounded after 2002, which saw the lowest numbers of hunters, harvest rates, and seal harvests since the start of surveys in 1992. At Old Harbor, harvests and hunters in 2006 were near their lowest points since 1992 (Figure 19). No clear trends are evident in the harvests, hunters, and harvest rates at Nanwalek (Figure 18). These case communities suggest that a complex of local factors are influencing harvest patterns at the local level.



| | Southea | st Alaska | Stock | Gulf of | Alaska S | tock | Bering Sea Stock | | | |
|------|---------|-----------|-------|---------|----------|------|------------------|----------|------|--|
| | | Struck | | | Struck | | Struck | | | |
| | Harvest | and Lost | Take | Harvest | and Lost | Take | Harvest | and Lost | Take | |
| 1992 | 1,477 | 189 | 1,666 | 865 | 81 | 946 | 160 | 83 | 243 | |
| 1993 | 1,425 | 190 | 1,615 | 818 | 103 | 921 | 122 | 78 | 200 | |
| 1994 | 1,348 | 151 | 1,500 | 819 | 94 | 913 | 145 | 63 | 208 | |
| 1995 | 1,719 | 171 | 1,890 | 683 | 42 | 724 | 97 | 31 | 127 | |
| 1996 | 1,642 | 216 | 1,858 | 680 | 56 | 736 | 93 | 54 | 148 | |
| 1997 | 1,343 | 224 | 1,567 | 725 | 58 | 784 | 127 | 68 | 195 | |
| 1998 | 1,414 | 202 | 1,616 | 772 | 70 | 842 | 100 | 38 | 138 | |
| 2000 | 1,210 | 151 | 1,361 | 699 | 80 | 779 | 66 | 19 | 85 | |
| 2001 | 1,020 | 156 | 1,176 | 716 | 56 | 772 | 62 | 22 | 84 | |
| 2002 | 877 | 130 | 1,007 | 613 | 75 | 688 | 95 | 44 | 140 | |
| 2003 | 945 | 124 | 1,069 | 801 | 78 | 879 | 65 | 17 | 82 | |
| 2004 | 743 | 102 | 845 | 747 | 110 | 858 | 76 | 43 | 119 | |
| 2005 | 546 | 89 | 634 | 861 | 97 | 958 | 64 | 40 | 104 | |
| 2006 | 593 | 115 | 708 | 766 | 82 | 848 | 65 | 24 | 88 | |
| 2007 | 586 | 68 | 654 | 620 | 66 | 686 | 61 | 27 | 88 | |
| 2008 | 534 | 60 | 594 | 593 | 86 | 680 | 133 | 55 | 188 | |

Figure 11.-Harbor seal take trends by harbor seal stock, 1992–2008.

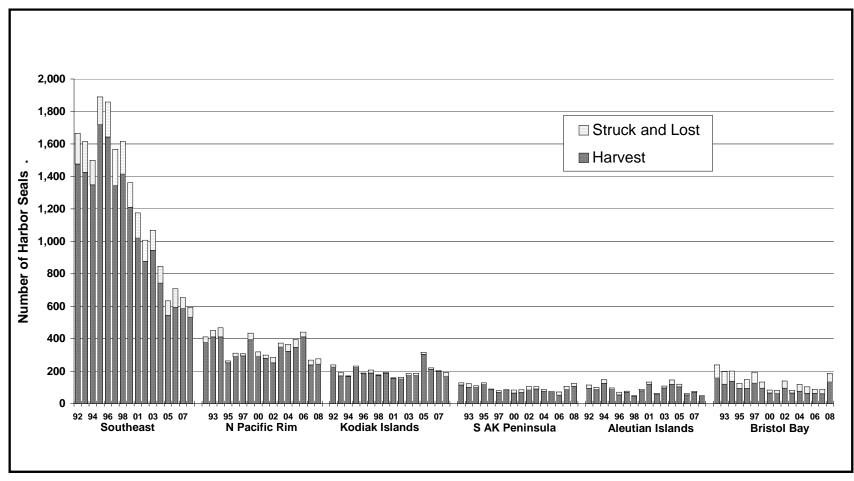


Figure 12.-Harbor seal take trends reported by Alaska Native hunters by major area, 1992–2008.

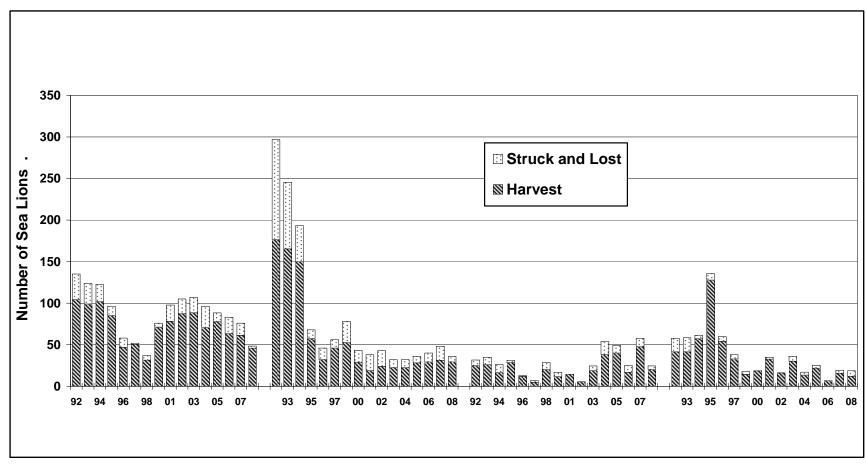


Figure 13.–Sea lion take trends reported by Alaska Native hunters by area, 1992–2008.

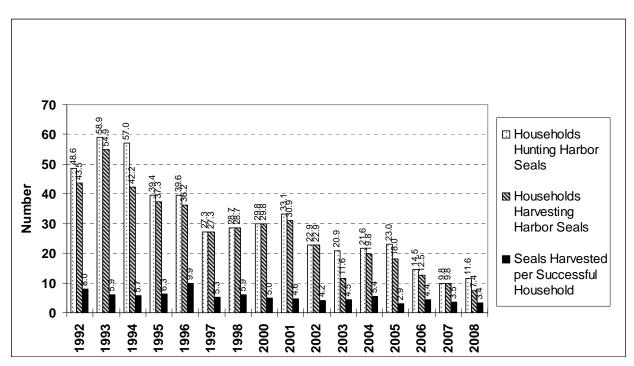


Figure 14.-Harbor seal hunters and success rates, Hoonah, 1992-2008.

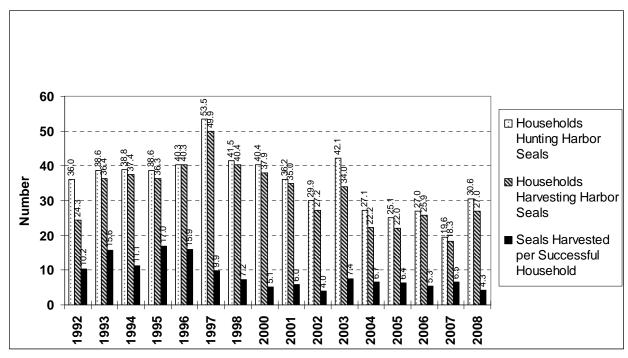


Figure 15.-Harbor seal hunters and success rates, Yakutat, 1992-2008.

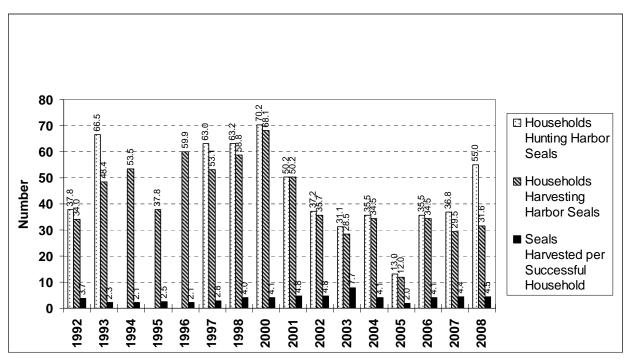


Figure 16.-Harbor seal hunters and success rates, Sitka, 1992-2008.

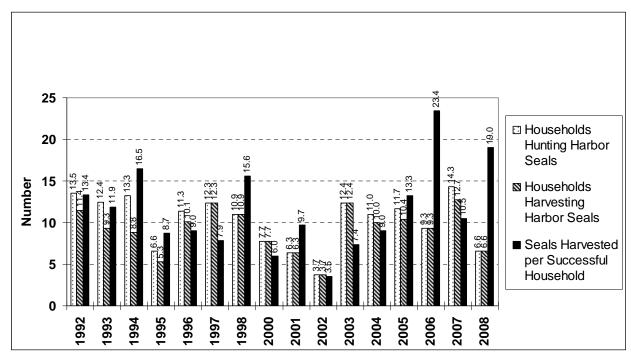


Figure 17.-Harbor seal hunters and success rates, Tatitlek, 1992-2008.

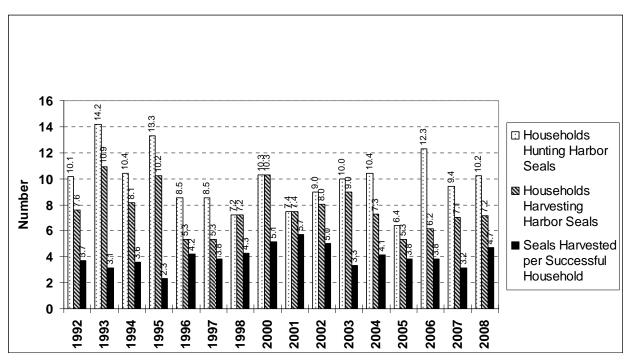


Figure 18.-Harbor seal hunters and success rates, Nanwalek, 1992-2008.

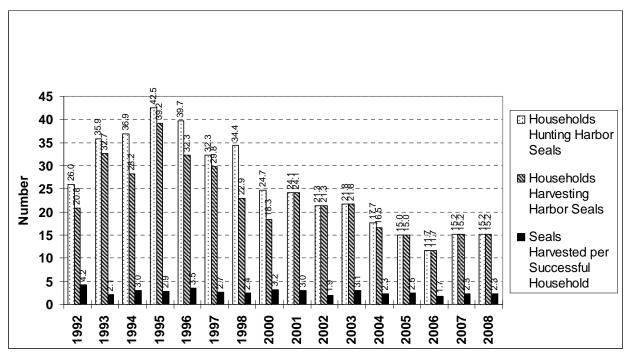
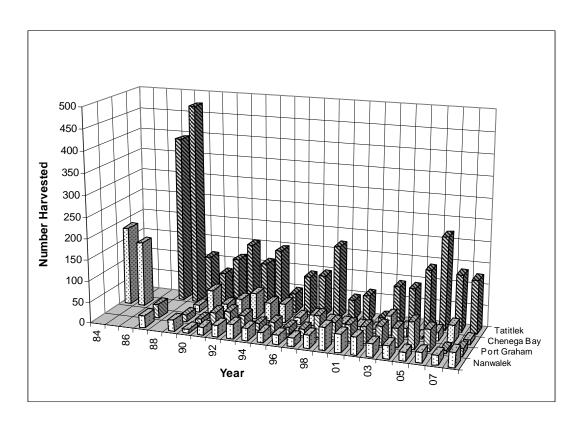


Figure 19.-Harbor seal hunters and success rates, Old Harbor, 1992–2008.

For harvests in 2 regions, the North Pacific Rim and Kodiak Island, a longer time series is available, shown as figures 20 and 22 (struck and lost numbers are not available prior to 1992, so these figures compare only harvest numbers). In the North Pacific Rim, subsistence harvests of harbor seals have been substantially lower during the most recent 10-year survey period compared with harvests recorded prior to 1989, the year of the Exxon Valdez oil spill (Figure 20). Families in Prince William Sound reduced their subsistence activities the year of the spill because of the uncertainties of the health safety of consuming wild foods harvested from oiled areas. Subsistence harvest levels showed signs of some recovery since the spill, particularly in Nanwalek and Port Graham along Lower Cook Inlet. The 2008 survey at Tatitlek (125 seals) in Prince William Sound recorded a rebound from 2002, the poorest seal harvest on record in this community (13 seals). The other 3 communities had mid range seals harvests in 2008. For Kodiak Island villages, the 103 seals harvested in 2008 were substantially fewer than those recorded 2 decades before (478 seals in 1982) (Figure 22). In this area, harbor seal harvests appear to have been in decline during the 1980s, followed by increases again during the 1990s at Old Harbor and Ouzinkie. In other Kodiak Island communities, harvests have remained low and variable since the 1990s.

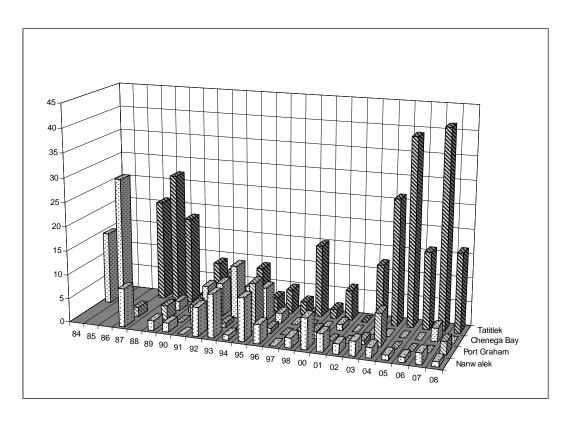
The longer time series represented by the North Pacific Rim and Kodiak Island areas provide a cautionary note about interpreting trends in subsistence patterns described since 1992, the start of the most recent survey series. Reported harbor seal harvests were substantially higher a decade earlier in the North Pacific Rim and Kodiak Island areas. The pattern of use documented for 1992–2008 in those areas may represent observations at relatively lower points within longer term harvest cycles. The longer time series above may better represent the potential ranges of subsistence takes in these areas. Should conditions return to those during the 1980s, subsistence harvests of harbor seals might increase as well.



HARBOR SEAL HARVESTS

| 1984 186 1985 154 1986 1987 29 32 393 1988 473 1989 27 17 16 113 1990 9 10 57 76 1991 18 30 28 114 1992 28 36 43 153 1993 34 31 61 111 1994 29 16 42 146 | Year | Nanwalek | Port Graham | Chenega Bay | Tatitlek |
|--|------|----------|-------------|-------------|----------|
| 1986 1987 29 32 393 1988 473 1989 27 17 16 113 1990 9 10 57 76 1991 18 30 28 114 1992 28 36 43 153 1993 34 31 61 111 1994 29 16 42 146 | 1984 | | | 186 | _ |
| 1987 29 32 393 1988 473 1989 27 17 16 113 1990 9 10 57 76 1991 18 30 28 114 1992 28 36 43 153 1993 34 31 61 111 1994 29 16 42 146 | 1985 | | | 154 | |
| 1988 473 1989 27 17 16 113 1990 9 10 57 76 1991 18 30 28 114 1992 28 36 43 153 1993 34 31 61 111 1994 29 16 42 146 | 1986 | | | | |
| 1989 27 17 16 113 1990 9 10 57 76 1991 18 30 28 114 1992 28 36 43 153 1993 34 31 61 111 1994 29 16 42 146 | 1987 | 29 | 32 | | 393 |
| 1990 9 10 57 76 1991 18 30 28 114 1992 28 36 43 153 1993 34 31 61 111 1994 29 16 42 146 | 1988 | | | | 473 |
| 1991 18 30 28 114 1992 28 36 43 153 1993 34 31 61 111 1994 29 16 42 146 | 1989 | 27 | 17 | 16 | 113 |
| 1992 28 36 43 153 1993 34 31 61 111 1994 29 16 42 146 | 1990 | 9 | 10 | 57 | 76 |
| 1993 34 31 61 111 1994 29 16 42 146 | 1991 | 18 | 30 | 28 | 114 |
| 1994 29 16 42 146 | 1992 | 28 | 36 | 43 | 153 |
| | 1993 | 34 | 31 | 61 | 111 |
| | 1994 | 29 | 16 | 42 | 146 |
| 1995 24 23 44 46 | 1995 | 24 | 23 | 44 | 46 |
| 1996 22 16 16 91 | 1996 | 22 | 16 | 16 | 91 |
| 1997 20 16 26 97 | 1997 | 20 | 16 | 26 | 97 |
| 1998 31 52 16 171 | 1998 | 31 | 52 | 16 | 171 |
| 2000 53 40 15 46 | 2000 | 53 | 40 | 15 | 46 |
| 2001 42 39 13 62 | 2001 | 42 | 39 | 13 | 62 |
| 2002 40 39 9 13 | 2002 | 40 | 39 | 9 | 13 |
| 2003 30 45 45 91 | 2003 | 30 | 45 | 45 | 91 |
| 2004 30 44 21 90 | 2004 | 30 | 44 | 21 | 90 |
| 2005 20 63 5 138 | 2005 | 20 | 63 | 5 | 138 |
| 2006 24 51 21 219 | 2006 | 24 | 51 | 21 | 219 |
| 2007 22 8 40 133 | 2007 | 22 | 8 | 40 | 133 |
| 2008 34 17 11 125 | 2008 | 34 | 17 | 11 | 125 |

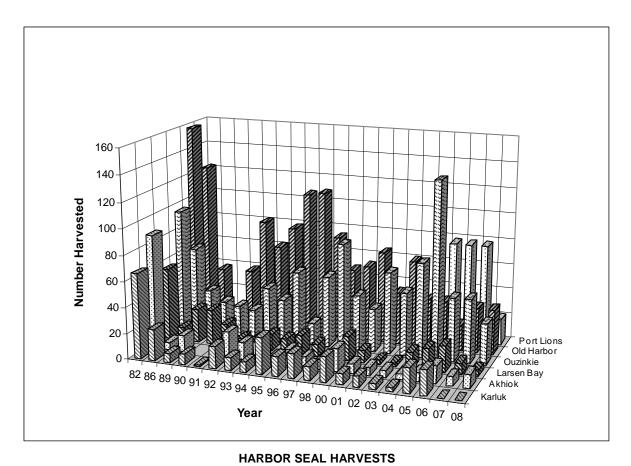
Figure 20.-Change in harbor seal harvests, North Pacific Rim communities.



SEA LION HARVESTS

| - | | | | | |
|---|------|----------|-------------|-------------|----------|
| - | Year | Nanwalek | Port Graham | Chenega Bay | Tatitlek |
| | 1984 | | | 15 | |
| | 1985 | | | 27 | |
| | 1986 | | | | |
| | 1987 | 8 | 2 | | 21 |
| | 1988 | | | | 27 |
| | 1989 | 2 | 3 | 2 | 18 |
| | 1990 | 2 | 0 | 1 | 2 |
| | 1991 | 0 | 4 | 6 | 9 |
| | 1992 | 6 | 4 | 7 | 8 |
| | 1993 | 9 | 1 | 11 | 4 |
| | 1994 | 1 | 0 | 7 | 9 |
| | 1995 | 9 | 10 | 7 | 3 |
| | 1996 | 4 | 1 | 2 | 5 |
| | 1997 | 0 | 0 | 0 | 3 |
| | 1998 | 2 | 1 | 0 | 15 |
| | 2000 | 6 | 2 | 0 | 2 |
| | 2001 | 4 | 0 | 1 | 6 |
| | 2002 | 2 | 0 | 0 | 0 |
| | 2003 | 3 | 1 | 0 | 12 |
| | 2004 | 2 | 7 | 0 | 26 |
| | 2005 | 1 | 0 | 0 | 39 |
| | 2006 | 1 | 0 | 0 | 16 |
| | 2007 | 2 | 0 | 3 | 41 |
| _ | 2008 | 1 | 3 | 0 | 17 |

Figure 21.—Change in sea lion harvests, North Pacific Rim Communities.

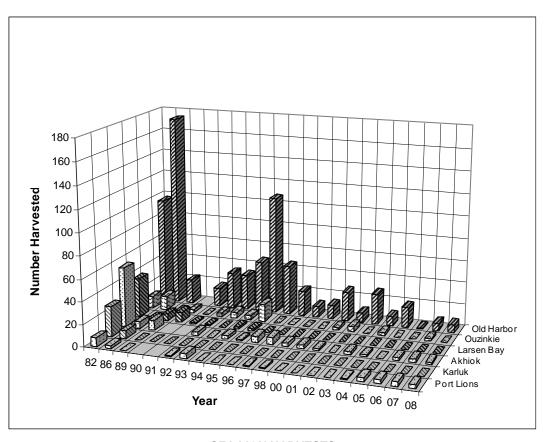


| Year | Port Lions | Karluk | Akhiok | Larsen Bay | Ouzinkie | Old Harbor |
|------|------------|--------|--------|------------|----------|------------|
| 1982 | 13 | 66 | 89 | 56 | 96 | 158 |
| 1986 | 28 | 24 | 6 | 10 | 67 | 127 |
| 1989 | 2 | 7 | 13 | 26 | 34 | 45 |
| 1990 | | 8 | | 27 | 26 | |
| 1991 | | 1 | | 17 | 24 | 46 |
| 1992 | 37 | 17 | 20 | 7 | 22 | 87 |
| 1993 | 26 | 10 | 13 | 8 | 41 | 68 |
| 1994 | 8 | 8 | 15 | 13 | 33 | 84 |
| 1995 | 2 | 28 | 5 | 11 | 56 | 112 |
| 1996 | 4 | 15 | 12 | 15 | 17 | 114 |
| 1997 | 5 | 19 | 8 | 10 | 55 | 80 |
| 1998 | 6 | 11 | 7 | 2 | 82 | 55 |
| 2000 | 6 | 20 | 18 | 19 | 43 | 59 |
| 2001 | 9 | 8 | 7 | 9 | 33 | 71 |
| 2002 | 13 | 8 | 6 | 3 | 63 | 40 |
| 2003 | 13 | 4 | 5 | 3 | 49 | 67 |
| 2004 | 21 | 3 | 4 | 13 | 73 | 38 |
| 2005 | 77 | 19 | 7 | 17 | 137 | 38 |
| 2006 | 77 | 19 | 14 | 20 | 49 | 20 |
| | | | | | | |

Figure 22.—Change in harbor seal harvests, Kodiak Island communities.

In contrast with the declining takes of harbor seals from 1992–2008, there has been greater consistency in the age and sex composition of the statewide harbor seal harvest. Figures 26 and 27 compare statewide patterns in the age and sex composition of the subsistence harvests of harbor seals since 1992. At the statewide level, hunters consistently have reported harvesting more male than female harbor seals each year. Considering harvests of known sex for harbor seals, male to female sex ratios have ranged between 2.0 to 3.3 males to 1 female (Figure 26). At the statewide level, age composition has been fairly similar between years (Figure 27): hunters report harvesting primarily adult harbor seals (from 73.4% to 87.6% of the annual harvest), with smaller proportions of juvenile seals (9.6% to 21.6%) and pups (0.2% to 6.0%).

Figures 28 and 29 compare age and sex compositions of harbor seal harvests at the regional level. There is considerable similarity between regions and years for harbor seal sex composition (Figure 28). Counting harvested animals whose sex was reported from 1992–2008, all regions showed more male seals to female seals harvested: Southeast (68.1% males), North Pacific Rim (70.4% males), Kodiak Island (76.0% males), South Alaska Peninsula (77.9% males), Aleutian Islands (70.7% males), and North and South Bristol Bay (70.6% males). A number of factors probably contribute to the predominance of males over females in the subsistence harvest of harbor seals across regions and years, as discussed in Wolfe and Mishler (1998). The higher number of males harvested likely reflects the greater availability of males in the groups of animals hunted due to sex segregation in seal groups, and due to female seals being more elusive than male seals when disturbed in a group presenting comparatively fewer or more difficult targets (see Wolfe and Mishler 1998:60–61, Wolfe et al. 1999).



| Year | Port Lions | Karluk | Akhiok | Larsen Bay | Ouzinkie | Old Harbor |
|------|------------|--------|--------|------------|----------|------------|
| 1982 | 8 | 27 | 54 | 36 | 11 | 96 |
| 1986 | 3 | 7 | 6 | 0 | 13 | 173 |
| 1989 | 0 | 0 | 9 | 6 | 0 | 22 |
| 1990 | | 0 | | 9 | 3 | |
| 1991 | | 0 | | 1 | 0 | 17 |
| 1992 | 1 | 0 | 3 | 1 | 3 | 33 |
| 1993 | 4 | 0 | 0 | 0 | 5 | 32 |
| 1994 | 0 | 0 | 3 | 2 | 4 | 46 |
| 1995 | 0 | 0 | 1 | 2 | 16 | 107 |
| 1996 | 0 | 0 | 6 | 0 | 0 | 45 |
| 1997 | 1 | 0 | 7 | 0 | 0 | 23 |
| 1998 | 1 | 0 | 3 | 0 | 0 | 10 |
| 2000 | 0 | 0 | 3 | 0 | 0 | 13 |
| 2001 | 0 | 0 | 1 | 0 | 3 | 26 |
| 2002 | 0 | 0 | 0 | 0 | 5 | 9 |
| 2003 | 0 | 0 | 3 | 0 | 0 | 28 |
| 2004 | 1 | 0 | 1 | 0 | 3 | 8 |
| 2005 | 4 | 0 | 0 | 0 | 0 | 18 |
| 2006 | 4 | 0 | 2 | 0 | 0 | 1 |
| 2007 | 4 | 0 | 3 | 0 | 2 | 7 |
| 2008 | 3 | 0 | 2 | 0 | 0 | 7 |

Figure 23.-Change in sea lion harvests, Kodiak Island communities.

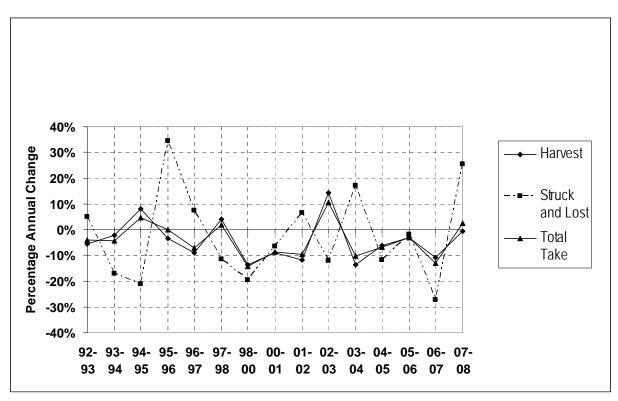


Figure 24.—Percentage annual changes in harvest, struck and lost, and total take, harbor seals, 1992–2008.

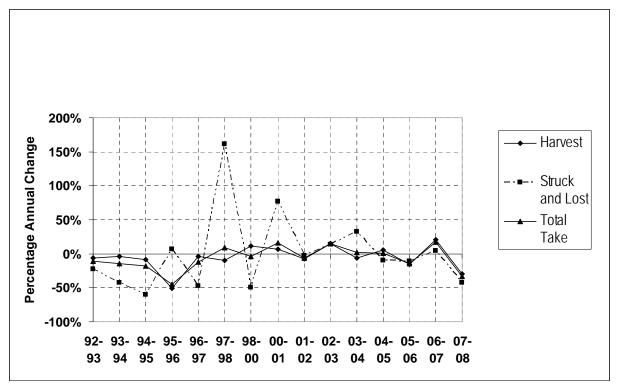


Figure 25.—Percentage annual changes in harvest, struck and lost, and total take, sea lions, 1992–2008.

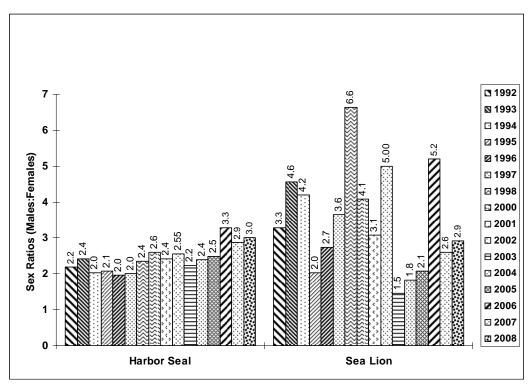


Figure 26.—Sex ratios (males:females) of harbor seal and sea lion harvests reported by Alaska Native hunters, 1992–2008.

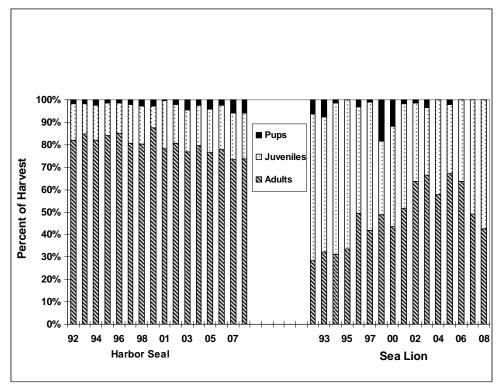


Figure 27.–Age structure (pups, juveniles, adults) of harbor seal and sea lion harvests reported by Alaska Native Hunters, 1992–2008.

The age composition of the subsistence harvest of harbor seals varies substantially between regions and presents a more complex picture than sex ratios (Figure 29). Since 1992, hunters have been asked to classify the seal harvest into "pups," "juveniles," and "adults." Probably most hunters answer this question using size and behavior as main indicators, so that the smallest seals with their mothers are classified as "pups," small-sized seals are classified as "juveniles," and medium-to-large seals are classified as "adults." The hunters' category of "juveniles" probably primarily includes yearlings (6–17.9 months), which are about 30% of adult weight, and perhaps include some 2-year-old seals (18–29.9 months) and 3-year-old seals (30–41.9 months), which have gained on average about 50% of adult weight (Bigg 1969:21, Pitcher and Calkins 1979:30).

Based on hunter reports, the percentages of juveniles in the harvest differed substantially between regions during 1992–2008 (Figure 29). Of all the seals harvested during 1992–2008 in the Southeast Region, only 10.5% were reported to be juvenile seals. Bristol Bay seal harvests also had a relatively low juvenile composition of 16.4% juvenile seals. Other regions had greater proportions of juvenile seals in their annual harvests, including South Alaska Peninsula (21.2%), Kodiak Islands (22.2%), North Pacific Rim (28.0%), and the Aleutian Islands (38.4%). These age patterns possibly reflect differences in the age compositions of seal populations accessible to hunters, perhaps due to different population structures in each region. The older ages of harvested seals in the Southeast region may reflect relatively larger and more stable seal populations with proportionately larger older age classes in the population, while the younger ages of seals harvested in other regions may reflect populations which are rebuilding, with proportionately larger young age classes.

As shown in Figure 29, the reported age compositions of the seal harvests have seen substantial between-year changes for some regions. In recent years, the proportions of juvenile seals have fallen substantially in the Kodiak Islands. In the Southeast region, the proportion of juvenile harvests has been increasing, from 7.4% (2002) to 26.9% (2008). In the Aleutian Islands, the juvenile proportions fell markedly in 2006 and 2007 but rose again in 2008.

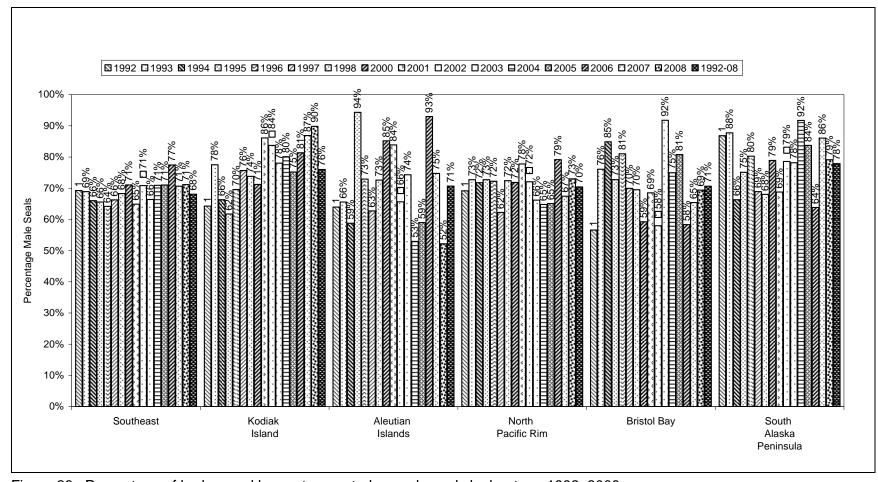


Figure 28.-Percentage of harbor seal harvests reported as male seals by hunters, 1992–2008.

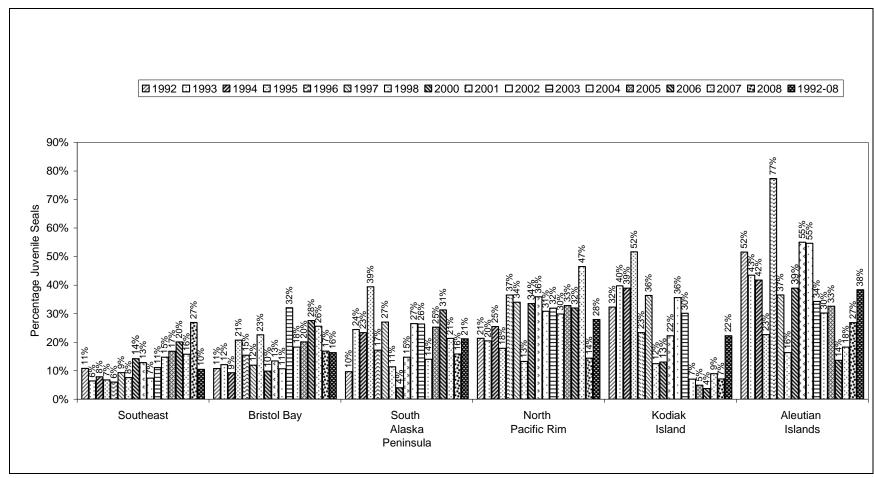


Figure 29.-Percentage of harbor seal harvests reported as juvenile seals by hunters, 1992-2008.

The reasons for changes in age composition are not known. If the age composition of the harvest reflects the age structures of local seal populations, which is speculation at this time, then at least 2 potential explanations present themselves. One interpretation might be that low juvenile harvests on particular years may reflect a relatively low production of young seals in a region during spring and summer. If this is the case, the juvenile proportion in the annual harvest may be an index of annual biological productivity of a local population. However, a second interpretation of the age composition data may relate the juvenile proportion to aging cohorts. A relatively high production of young seals during a particular year may create a relatively large cohort of young seals on a particular year. In another year or two, harvested seals from this aging cohort will likely be classified primarily as "adults" by hunters. Under this second interpretation, a decrease of juveniles on a particular year may be due to a greater number of available new adults in a local population rather than due to a change in the production of young seals.

It is beyond the scope of this research to test for the likelihood of these or other potential explanations. However, the changes in age composition over time in 3 regions are illustrated in Figures 30–32, which present adult and juvenile harbor seal harvests by month from January 1992 through December 2008 for the Southeast, Kodiak Island, and North Pacific Rim regions (no data are available for 1999). This time series does not arbitrarily divide years between December 31 and January 1, as in Figure 29, but allows for a combination of the calendar years to better visualize trends. A comparison of the Southeast harvest (Figure 30) with the Kodiak harvest (Figure 31) clearly illustrates the difference in the proportion of juveniles in the harvests: in Southeast Alaska, juveniles show more consistency as a low part of the harvest, compared with Kodiak Island, where as many juveniles are taken as adults in some years. The Kodiak Island harvest time series (Figure 31) shows relatively low juvenile harvests relative to adults for certain time periods: July 1996–June 1997, November 1997–December 1998, January 2000–December 2000, and July 2004–December 2008. In the neighboring North Pacific Rim (Figure 31), juvenile harvests were high relative to adults in July 1996–1997, low from January 1998

through December, and high from January through October 2000. In the Southeast series, the proportion of juveniles, while low, has been increasing since about 2000 (Figure 29). Such complex patterning of the age composition of harbor seal harvests may be related to annual changes in seal productivity and age class structures in local seal populations.

Sea Lion Subsistence Trends, 1992-2008

Total subsistence takes of sea lions by Alaska Natives sharply declined from 1992 to 1995, with takes leveling off between 1996 and 2008 (Tables 20, 23, 24; Figures 10, 25). The lowest recorded sea lion takes (146 animals) occurred in 2008, representing 26.6% of the subsistence take in 1992 (549 animals).

At the regional level, the 36 sea lions reported taken by hunters on the Pribilof Islands was similar to the average take since 2000 (39 sea lions), though substantially fewer than reported in 1992 (297 animals) (Figure 13). The sea lion take in the Aleutian Islands area (48 animals) was the lowest since 1998 (37 animals), considerably below the 135 animals taken in 1992. In Kodiak Island areas, the sea lion take in 2008 (19 animals) was similar to the average take since 2000 (21 sea lions) (Figure 13).

In the North Pacific Rim and Kodiak Island regions, longer time series are available (Figures 21 and 23). Documented sea lion harvests in Tatitlek and Chenega Bay ranged as high as 27 animals in each place during the 1980s. In 2008, no sea lions were reported harvested in Chenega Bay, while 17 were harvested at Tatitlek (Figure 21). Harvests at Nanwalek and Port Graham show yearly variation between 1 and 19 animals. The 2 communities harvested 4 sea lions in 2008. On Kodiak Island, sea lion harvests declined substantially during the 1980s—232 (1982), 202 (1986) and 37 (1989)—but rebounded again to 126 in 1995 because of increased harvests at Old Harbor and Ouzinkie. Kodiak Island harvested 12 sea lions in 2008, with none reported for 3 of 6 villages (Figure 23). The longer time series indicate that sea lion harvests have been declining in the North Pacific Rim and Kodiak Island areas, with the declines commencing during the 1980s for Kodiak Island communities.

Table 19.–Subsistence harbor seal takes by Alaska Natives by region, 1992–2008.

| | | Struck | | | Struck | | | Struck | | | Struck | , |
|------------------|---------|--------|---------|---------|--------|---------|---------|--------|---------|---------|--------|---------|
| | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take |
| Region | | 1992 | | | 1993 | | | 1994 | | | 1995 | |
| Southeast | | | | | | | | | | | | |
| Alaska | 1,475.4 | 189.5 | 1,664.9 | 1,425.0 | 190.0 | 1,615.0 | 1,348.5 | 151.4 | 1,499.9 | 1,719.1 | 170.9 | 1,890.0 |
| North Pacific | | | | | | | | | | | | |
| Rim | 377.6 | 33.4 | 411.0 | 412.3 | 38.5 | 450.8 | 411.2 | 56.8 | 468.0 | 252.1 | 11.7 | 263.9 |
| U. Kenai-Cook | | | | | | | | | | | | |
| Inlet | 51.6 | 0.0 | 51.6 | 49.2 | 5.6 | 54.8 | 16.2 | 0.0 | 16.2 | 3.7 | 0.0 | 3.7 |
| Kodiak Island | 225.5 | 13.1 | 238.6 | 171.7 | 20.1 | 191.8 | 168.2 | 3.6 | 171.7 | 223.0 | 9.2 | 232.2 |
| S. AK Peninsula | 115.5 | 13.1 | 128.6 | 100.0 | 23.1 | 123.1 | 98.6 | 11.1 | 109.8 | 117.0 | 11.1 | 128.0 |
| Aleutian Islands | 94.3 | 21.4 | 115.7 | 85.0 | 15.4 | 100.4 | 124.9 | 22.6 | 147.5 | 86.9 | 9.7 | 96.6 |
| Pribilof Islands | 2.3 | 1.2 | 3.5 | 2.3 | 1.2 | 3.5 | 7.3 | 0.0 | 7.3 | 2.5 | 0.0 | 2.5 |
| South Bristol | | | | | | | | | | | | |
| Bay | 99.0 | 68.6 | 167.6 | 73.6 | 57.3 | 130.9 | 121.6 | 59.3 | 180.9 | 68.3 | 28.3 | 96.6 |
| North Bristol | | | | | | | | | | | | |
| Bay | 58.4 | 13.2 | 71.6 | 46.1 | 20.0 | 66.1 | 16.2 | 3.3 | 19.5 | 25.9 | 2.4 | 28.3 |
| Alaska Total | 2,499.7 | 353.4 | 2,853.1 | 2,365.3 | 371.1 | 2,736.4 | 2,312.8 | 308.0 | 2,620.8 | 2,498.5 | 243.3 | 2,741.8 |

| | | Struck | | | Struck | | | Struck | | | Struck | | |
|------------------|---------|--------|---------|---------|--------|---------|---------|--------|---------|---------|--------|---------|--|
| | | and | | | and | | | and | | | and | | |
| | Harvest | Lost | Take | |
| Region | | 1996 | | | 1997 | | | 1998 | | | 2000 | | |
| Southeast | | | | | | | | | | | | | |
| Alaska | 818.0 | 128.0 | 946.0 | 1,343.4 | 224.1 | 1,567.4 | 1,414.0 | 202.4 | 1,616.4 | 1,209.7 | 151.4 | 1,361.1 | |
| North Pacific | | | | | | | | | | | | | |
| Rim | 189.7 | 10.9 | 200.6 | 295.0 | 12.8 | 307.7 | 393.5 | 41.4 | 434.9 | 289.9 | 29.8 | 319.7 | |
| U. Kenai-Cook | | | | | | | | | | | | | |
| Inlet | 0.0 | 0.0 | 0.0 | 101.7 | 8.8 | 110.5 | 79.2 | 13.5 | 92.7 | 79.2 | 13.5 | 92.7 | |
| Kodiak Island | 1,998.4 | 1.2 | 7.6 | 189.8 | 18.3 | 208.2 | 174.0 | 3.7 | 177.7 | 185.9 | 7.3 | 193.2 | |
| S. AK Peninsula | 97.2 | 32.6 | 129.8 | 68.3 | 12.1 | 80.4 | 79.9 | 7.5 | 87.4 | 65.4 | 18.4 | 83.8 | |
| Aleutian Islands | 48.2 | 47.2 | 95.5 | 70.5 | 6.3 | 76.9 | 45.8 | 3.8 | 49.6 | 79.0 | 10.5 | 89.5 | |
| Pribilof Islands | 29.2 | 3.8 | 32.9 | 0.0 | 0.0 | 0.0 | 4.6 | 0.0 | 4.6 | 0.0 | 0.0 | 0.0 | |
| South Bristol | | | | | | | | | | | | | |
| Bay | 24.3 | 2.0 | 26.3 | 107.8 | 66.3 | 174.1 | 62.2 | 34.3 | 96.5 | 55.4 | 17.6 | 73.0 | |
| North Bristol | | | | | | | | | | | | | |
| Bay | 0.0 | 0.0 | 0.0 | 18.8 | 2.1 | 20.9 | 33.2 | 3.6 | 36.8 | 10.4 | 1.1 | 11.6 | |
| Alaska Total | 3,205.1 | 225.7 | 1,438.7 | 2,195.3 | 350.8 | 2,546.2 | 2,286.4 | 310.3 | 2,596.7 | 1,974.8 | 249.6 | 2,224.4 | |

-continued-

Table 19, continued.

| | Struck | | Struck | | | Struck | | | Struck | | | |
|------------------|---------|-------|---------|---------|-------|---------|---------|-------|---------|---------|-------|---------|
| | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take |
| Region | | 2001 | | | 2002 | | | 2003 | | | 2004 | |
| Southeast | | | | | | | | | | | | |
| Alaska | 1,019.9 | 155.9 | 1,175.7 | 877.0 | 129.8 | 1,006.8 | 945.1 | 123.7 | 1,068.8 | 743.0 | 102.3 | 845.3 |
| North Pacific | | | | | | | | | | | | |
| Rim | 279.9 | 20.1 | 300.0 | 251.9 | 35.2 | 287.1 | 348.8 | 25.3 | 374.1 | 322.7 | 43.2 | 365.9 |
| U. Kenai-Cook | | | | | | | | | | | | |
| Inlet | 91.2 | 2.7 | 93.9 | 75.2 | 8.0 | 83.2 | 90.8 | 15.0 | 105.8 | 56.6 | 13.4 | 69.9 |
| Kodiak Island | 155.6 | 4.8 | 160.4 | 152.1 | 10.2 | 162.3 | 172.7 | 13.0 | 185.6 | 172.2 | 15.7 | 188.0 |
| S. AK Peninsula | 68.7 | 16.3 | 85.1 | 70.0 | 19.4 | 89.4 | 91.1 | 13.5 | 104.5 | 77.9 | 10.1 | 88.0 |
| Aleutian Islands | 120.1 | 12.5 | 132.6 | 63.4 | 2.4 | 65.9 | 97.7 | 11.4 | 109.1 | 118.0 | 28.0 | 146.0 |
| Pribilof Islands | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| South Bristol | | | | | | | | | | | | |
| Bay | 52.9 | 19.8 | 72.7 | 79.7 | 36.8 | 116.6 | 35.6 | 15.3 | 50.9 | 58.5 | 31.2 | 89.6 |
| North Bristol | | | | | | | | | | | | |
| Bay | 8.8 | 1.2 | 10.0 | 15.5 | 7.4 | 23.0 | 29.8 | 1.4 | 31.2 | 17.6 | 11.7 | 29.3 |
| Alaska Total | 1,797.1 | 234.3 | 2,031.4 | 1,585.0 | 249.2 | 1,834.2 | 1,811.6 | 218.5 | 2,030.1 | 1,566.4 | 255.6 | 1,822.0 |

| | | Struck | | | Struck | | | Struck | | | Struck | |
|------------------|---------|--------|---------|---------|--------|---------|---------|--------|---------|---------|--------|---------|
| | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take |
| Region | | 2005 | | | 2006 | | | 2007 | | | 2008 | |
| Southeast | | | | | | | | | | | | |
| Alaska | 545.5 | 88.7 | 634.2 | 592.7 | 114.8 | 707.6 | 585.7 | 68.2 | 653.8 | 533.9 | 60.1 | 593.9 |
| North Pacific | | | | | | | | | | | | |
| Rim | 347.4 | 47.8 | 395.2 | 411.1 | 29.7 | 440.8 | 238.0 | 30.5 | 268.4 | 243.7 | 33.1 | 276.7 |
| U. Kenai-Cook | | | | | | | | | | | | |
| Inlet | 37.6 | 13.3 | 50.9 | 37.6 | 13.3 | 50.9 | 27.0 | 4.0 | 31.0 | 33.1 | 3.5 | 36.7 |
| Kodiak Island | 305.1 | 10.6 | 315.7 | 210.3 | 10.2 | 220.5 | 198.6 | 5.8 | 204.4 | 165.5 | 26.5 | 192.0 |
| S. AK Peninsula | 66.8 | 8.5 | 75.3 | 52.5 | 20.6 | 73.0 | 88.0 | 18.4 | 106.4 | 107.5 | 17.3 | 124.8 |
| Aleutian Islands | 103.7 | 17.1 | 120.8 | 54.4 | 8.6 | 63.0 | 68.5 | 6.9 | 75.3 | 43.5 | 6.0 | 49.5 |
| Pribilof Islands | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| South Bristol | | | | | | | | | | | | |
| Bay | 40.3 | 30.8 | 71.1 | 45.4 | 14.0 | 59.4 | 52.3 | 22.0 | 74.3 | 66.9 | 38.2 | 105.1 |
| North Bristol | | | | | | | | | | | | |
| Bay | 23.9 | 8.9 | 32.7 | 19.1 | 9.9 | 29.0 | 8.8 | 5.2 | 14.0 | 65.6 | 17.2 | 82.8 |
| Alaska Total | 1,470.3 | 225.6 | 1,695.9 | 1,423.1 | 221.2 | 1,644.2 | 1,266.9 | 160.9 | 1,427.7 | 1,259.7 | 201.8 | 1,461.5 |

Note: Surveys not completed for study year 1999.

Table 20.–Subsistence sea lion takes by Alaska Natives by Region, 1992–2008.

| | | Struck | | | Struck | | | Struck | | | Struck | |
|---------------------|---------|--------|-------|---------|--------|-------|---------|--------|-------|---------|--------|-------|
| | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take |
| Region | | 1992 | | | 1993 | | | 1994 | | | 1995 | |
| Southeast Alaska | 5.2 | 1.3 | 6.4 | 0.0 | 1.1 | 1.1 | 3.5 | 1.1 | 4.6 | 0.0 | 0.0 | 0.0 |
| North Pacific Rim | 25.1 | 6.5 | 31.5 | 26.2 | 8.7 | 34.9 | 16.6 | 9.7 | 26.3 | 28.4 | 3.0 | 31.4 |
| U. Kenai-Cook Inlet | 5.7 | 3.8 | 9.5 | 7.8 | 3.3 | 11.1 | 1.4 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 |
| Kodiak Island | 41.5 | 16.3 | 57.8 | 41.5 | 16.9 | 58.4 | 57.1 | 4.2 | 61.3 | 127.9 | 7.7 | 135.7 |
| S. AK Peninsula | 2.4 | 0.0 | 2.4 | 4.6 | 1.2 | 5.7 | 4.6 | 1.1 | 5.7 | 8.1 | 0.0 | 8.1 |
| Aleutian Islands | 104.3 | 30.9 | 135.2 | 99.0 | 24.8 | 123.8 | 101.8 | 20.5 | 122.3 | 85.0 | 11.1 | 96.1 |
| Pribilof Islands* | 176.6 | 120.2 | 296.8 | 165.4 | 80.0 | 245.4 | 149.8 | 43.5 | 193.3 | 57.6 | 10.3 | 67.9 |
| South Bristol Bay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Bristol Bay | 7.8 | 0.0 | 7.8 | 3.3 | 3.3 | 6.5 | 1.2 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 |
| Alaska Total | 368.5 | 178.9 | 547.4 | 347.8 | 139.3 | 487.1 | 336.0 | 80.1 | 416.1 | 307.1 | 32.1 | 339.2 |

| | | Struck | | | Struck | | | Struck | | | Struck | |
|---------------------|---------|--------|-------|---------|--------|-------|---------|--------|-------|---------|--------|-------|
| | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take |
| Region | | 1996 | | | 1997 | | | 1998 | | | 2000 | |
| Southeast Alaska | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 4.4 | 7.6 | 2.3 | 0.0 | 2.3 |
| North Pacific Rim | 12.4 | 1.1 | 13.5 | 4.5 | 1.4 | 5.8 | 20.0 | 8.5 | 28.5 | 11.7 | 5.0 | 16.7 |
| U. Kenai-Cook Inlet | 3.3 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kodiak Island | 53.9 | 6.3 | 60.2 | 33.3 | 4.9 | 38.2 | 14.5 | 3.3 | 17.8 | 18.5 | 0.0 | 18.5 |
| S. AK Peninsula | 3.7 | 1.3 | 5.0 | 8.3 | 0.0 | 8.3 | 9.2 | 0.0 | 9.2 | 13.8 | 0.0 | 13.8 |
| Aleutian Islands | 46.5 | 11.3 | 57.9 | 50.7 | 1.3 | 51.9 | 31.6 | 5.5 | 37.0 | 71.2 | 4.8 | 76.0 |
| Pribilof Islands* | 32.2 | 14.2 | 46.4 | 45.5 | 10.4 | 55.9 | 52.7 | 25.4 | 78.1 | 29.1 | 14.2 | 43.3 |
| South Bristol Bay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Bristol Bay | 0.0 | 0.0 | 0.0 | 3.6 | 0.0 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Alaska Total | 152.1 | 34.1 | 186.2 | 145.7 | 17.9 | 163.7 | 131.2 | 47.0 | 178.2 | 146.6 | 24.0 | 170.6 |

| | | Struck | | | Struck | | | Struck | | | Struck | |
|---------------------|---------|--------|-------|---------|--------|-------|---------|--------|-------|---------|--------|-------|
| | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take |
| Region | | 2001 | | | 2002 | | | 2003 | | | 2004 | |
| Southeast Alaska | 0.0 | 0.0 | 0.0 | 7.0 | 0.0 | 7.0 | 2.3 | 4.6 | 6.9 | 4.6 | 7.2 | 11.8 |
| North Pacific Rim | 14.7 | 0.0 | 14.7 | 5.5 | 0.0 | 5.5 | 19.1 | 5.6 | 24.7 | 38.0 | 15.8 | 53.9 |
| U. Kenai-Cook Inlet | 1.3 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kodiak Island | 32.8 | 2.2 | 35.0 | 16.1 | 0.0 | 16.1 | 30.3 | 5.7 | 36.0 | 13.5 | 3.5 | 17.0 |
| S. AK Peninsula | 10.2 | 1.4 | 11.6 | 3.9 | 4.2 | 8.1 | 2.5 | 2.4 | 5.0 | 3.9 | 0.0 | 3.9 |
| Aleutian Islands | 78.1 | 19.6 | 97.7 | 87.4 | 17.7 | 105.1 | 88.5 | 18.5 | 107.0 | 70.9 | 25.1 | 96.0 |
| Pribilof Islands* | 19.0 | 19.0 | 38.0 | 24.0 | 19.0 | 43.0 | 22.3 | 9.7 | 32.0 | 18.3 | 13.7 | 32.0 |
| South Bristol Bay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Bristol Bay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 1.2 |
| Alaska Total | 156.2 | 42.2 | 198.4 | 143.9 | 40.9 | 184.7 | 165.0 | 46.5 | 211.5 | 150.4 | 65.4 | 215.7 |

Table 20, continued.

| | | Struck | | | Struck | | | Struck | | | Struck | |
|---------------------|---------|--------|-------|---------|--------|-------|---------|--------|-------|---------|--------|-------|
| | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take |
| Region | | 2005 | | | 2006 | | | 2007 | | | 2008 | |
| Southeast Alaska | 0.0 | 19.0 | 19.0 | 2.5 | 10.1 | 12.6 | 0.0 | 6.1 | 6.1 | 1.7 | 8.0 | 9.6 |
| North Pacific Rim | 40.1 | 9.1 | 49.2 | 17.0 | 8.0 | 25.0 | 47.5 | 10.3 | 57.8 | 20.3 | 4.3 | 24.6 |
| U. Kenai-Cook Inlet | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kodiak Island | 21.9 | 3.2 | 25.1 | 7.0 | 0.0 | 7.0 | 15.8 | 3.5 | 19.3 | 12.1 | 6.7 | 18.8 |
| S. AK Peninsula | 4.2 | 0.0 | 4.2 | 17.5 | 1.1 | 18.5 | 9.7 | 0.0 | 9.7 | 7.2 | 1.4 | 8.6 |
| Aleutian Islands | 77.7 | 10.6 | 88.3 | 63.4 | 19.4 | 82.8 | 61.3 | 14.7 | 76.0 | 45.8 | 2.6 | 48.4 |
| Pribilof Islands* | 18.3 | 13.7 | 32.0 | 29.3 | 10.7 | 40.0 | 31.3 | 16.7 | 48.0 | 29.3 | 6.7 | 36.0 |
| South Bristol Bay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Bristol Bay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Alaska Total | 162.2 | 55.6 | 217.8 | 136.8 | 49.2 | 186.0 | 165.7 | 51.3 | 217.0 | 116.4 | 29.6 | 146.0 |

Note: Surveys not completed for study year 1999.

^{*} St. Paul's 2000–2008 data from Zavadil et al. (2006), Lestenkof and Zavadil (2006), Lestenkof et al. (2007, 2008), and Jones (2009).

Table 21.—Subsistence harbor seal takes by Alaska Natives by Eastern Gulf of Alaska communities, 1992–2008.

| | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|---------------|---------|----------|-------|---------|----------|-------|---------|----------|-------|---------|----------|-------|---------|----------|-------|
| | Harvest | and Lost | Take |
| Community | | 1992 | | | 1993 | | | 1994 | | | 1995 | | | 1996 | |
| Southeast Al | aska | | | | | | | | | | | | | | |
| Angoon | 125.1 | 28.9 | 154.0 | 56.6 | 9.9 | 66.5 | 66.9 | 21.1 | 0.88 | 80.9 | 9.7 | 90.6 | 71.0 | 2.0 | 73.0 |
| Craig | 74.2 | 0.0 | 74.2 | 51.1 | 9.8 | 60.9 | 42.7 | 6.6 | 49.3 | 69.4 | 13.6 | 83.1 | 48.2 | 8.0 | 56.3 |
| Haines | 30.5 | 7.9 | 38.4 | 23.0 | 2.3 | 25.3 | 39.3 | 2.2 | 41.5 | 24.0 | 9.0 | 33.0 | 41.1 | 3.4 | 44.6 |
| Hoonah | 350.2 | 24.8 | 375.0 | 324.4 | 35.8 | 360.2 | 240.7 | 15.0 | 255.8 | 236.6 | 19.7 | 256.3 | 359.7 | 48.6 | 408.3 |
| Hydaburg | 30.0 | 2.1 | 32.1 | 14.0 | 0.0 | 14.0 | 10.0 | 0.0 | 10.0 | 6.5 | 0.0 | 6.5 | 15.0 | 0.0 | 15.0 |
| Juneau | 122.6 | 7.6 | 130.2 | 59.0 | 21.6 | 80.6 | 78.6 | 13.5 | 92.1 | 42.9 | 1.3 | 44.2 | 32.8 | 1.3 | 34.1 |
| Kake | 173.9 | 12.3 | 186.2 | 100.8 | 15.2 | 115.9 | 99.3 | 7.4 | 106.6 | 72.0 | 1.5 | 73.5 | 86.4 | 0.0 | 86.4 |
| Ketchikan | 90.2 | 6.5 | 96.8 | 42.4 | 2.9 | 45.3 | 31.4 | 0.0 | 31.4 | 46.4 | 0.0 | 46.4 | 25.0 | 0.0 | 25.0 |
| Klawock | 39.0 | 1.4 | 40.3 | 39.8 | 0.0 | 39.8 | 71.1 | 0.0 | 71.1 | 263.8 | 0.0 | 263.8 | 69.8 | 0.0 | 69.8 |
| Klukwan | 8.0 | 2.0 | 10.0 | 1.2 | 0.0 | 1.2 | 3.8 | 1.3 | 5.0 | 35.2 | 6.4 | 41.6 | 6.3 | 0.0 | 6.3 |
| Pelican | 8.3 | 1.4 | 9.7 | 5.3 | 1.1 | 6.4 | 4.4 | 1.1 | 5.6 | 13.5 | 0.0 | 13.5 | 15.4 | 0.0 | 15.4 |
| Petersburg | 22.4 | 2.6 | 25.0 | 4.5 | 4.5 | 9.0 | 15.2 | 1.3 | 16.4 | 13.6 | 1.1 | 14.7 | 19.5 | 2.4 | 21.9 |
| Saxman | 22.2 | 1.2 | 23.5 | 5.6 | 0.0 | 5.6 | 16.5 | 0.0 | 16.5 | 15.9 | 0.0 | 15.9 | 4.9 | 0.0 | 4.9 |
| Sitka | 124.7 | 21.4 | 146.1 | 109.3 | 20.6 | 129.9 | 110.5 | 20.1 | 130.6 | 93.8 | 6.3 | 100.0 | 126.8 | 4.1 | 130.9 |
| Wrangell | 6.0 | 8.0 | 14.0 | 19.5 | 9.0 | 28.5 | 101.0 | 27.0 | 128.0 | 89.3 | 22.8 | 112.0 | 79.3 | 22.2 | 101.5 |
| Yakutat | 248.0 | 61.3 | 309.3 | 568.4 | 57.4 | 625.8 | 417.1 | 35.0 | 452.1 | 615.5 | 79.6 | 695.1 | 640.3 | 124.1 | 764.5 |
| North Pacific | Rim | | | | | | | | | | | | | | |
| Chenega Bay | 42.6 | 2.3 | 44.9 | 60.8 | 2.2 | 63.0 | 42.0 | 3.9 | 45.9 | 44.4 | 1.6 | 46.0 | 16.0 | 3.0 | 19.0 |
| Cordova | 103.8 | 8.8 | 112.5 | 147.4 | 5.5 | 152.9 | 135.8 | 9.1 | 144.9 | 83.4 | 2.0 | 85.4 | 122.2 | 8.6 | 130.8 |
| Nanwalek | 27.9 | 0.0 | 27.9 | 33.9 | 3.2 | 37.1 | 29.0 | 4.6 | 33.7 | 23.6 | 0.0 | 23.6 | 22.4 | 0.0 | 22.4 |
| Port Graham | 36.2 | 4.7 | 40.8 | 30.6 | 3.2 | 33.7 | 15.5 | 5.2 | 20.7 | 23.0 | 0.0 | 23.0 | 15.5 | 2.2 | 17.7 |
| Seldovia | 12.4 | 0.0 | 12.4 | 7.9 | 4.9 | 12.8 | 8.0 | 0.0 | 8.0 | 4.0 | 0.0 | 4.0 | 3.0 | 0.0 | 3.0 |
| Seward | 2.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 5.0 | 0.0 | 5.0 | 10.9 | 5.5 | 16.4 | 5.6 | 0.0 | 5.6 |
| Tatitlek | 152.9 | 17.7 | 170.6 | 110.8 | 15.5 | 126.4 | 145.9 | 30.9 | 176.8 | 46.1 | 2.6 | 48.7 | 90.8 | 3.8 | 94.6 |
| Valdez | 0.0 | 0.0 | 0.0 | 21.0 | 4.0 | 25.0 | 30.0 | 3.0 | 33.0 | 16.8 | 0.0 | 16.8 | 13.5 | 4.5 | 18.0 |

Table 21, continued.

| 10.010 = 1, 001 | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|-----------------|------------|----------|------|---------|----------|------|---------|----------|------|---------|----------|-------|---------|----------|-------|
| | Harvest | and Lost | Take | Harvest | and Lost | Take | Harvest | and Lost | Take | Harvest | and Lost | Take | Harvest | and Lost | Take |
| Community | | 1992 | | | 1993 | | | 1994 | | | 1995 | | | 1996 | |
| Upper Kenai- | -Cook Inle | et | | | | | | | | | | | | | |
| Anchorage | 17.1 | 0.0 | 17.1 | 24.4 | 5.6 | 30.0 | 4.2 | 0.0 | 4.2 | 3.7 | 0.0 | 3.7 | 28.9 | 6.2 | 35.1 |
| Homer | | | | 4.8 | 0.0 | 4.8 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 | 0.0 | 10.5 | 1.5 | 12.0 |
| Kenai | 33.3 | 0.0 | 33.3 | 20.0 | 0.0 | 20.0 | | | | | | | 22.9 | 1.1 | 24.0 |
| Tyonek | 1.1 | 0.0 | 1.1 | | | | | | | | | | 2.0 | 0.0 | 2.0 |
| Kodiak Islan | d | | | | | | | | | | | | | | |
| Akhiok | 20.0 | 3.0 | 23.0 | 13.3 | 0.0 | 13.3 | 14.5 | 0.0 | 14.5 | 5.0 | 0.0 | 5.0 | 12.0 | 1.0 | 13.0 |
| Karluk | 16.5 | 1.5 | 18.0 | 10.0 | 1.3 | 11.3 | 7.5 | 0.0 | 7.5 | 28.1 | 6.8 | 34.9 | 15.1 | 0.0 | 15.1 |
| Kodiak City | 36.9 | 0.0 | 36.9 | 6.0 | 1.0 | 7.0 | 7.6 | 0.0 | 7.6 | 8.8 | 0.0 | 8.8 | 9.0 | 0.0 | 9.0 |
| Larsen Bay | 6.5 | 0.0 | 6.5 | 7.7 | 5.5 | 13.2 | 13.4 | 2.2 | 15.7 | 11.0 | 0.0 | 11.0 | 15.0 | 0.0 | 15.0 |
| Old Harbor | 86.8 | 5.3 | 92.1 | 67.6 | 2.7 | 70.3 | 83.7 | 1.3 | 85.0 | 112.0 | 2.4 | 114.4 | 113.5 | 1.3 | 114.8 |
| Ouzinkie | 21.8 | 1.1 | 23.0 | 41.2 | 8.7 | 49.8 | 33.4 | 0.0 | 33.4 | 56.1 | 0.0 | 56.1 | 16.7 | 2.6 | 19.3 |
| Port Lions | 36.9 | 2.2 | 39.1 | 26.0 | 1.0 | 27.0 | 8.0 | 0.0 | 8.0 | 2.0 | 0.0 | 2.0 | 4.0 | 0.0 | 4.0 |

| | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|-------------|---------|----------|-------|---------|----------|-------|---------|----------|-------|---------|----------|-------|---------|----------|-------|
| | Harvest | and Lost | Take |
| Community | | 1997 | | | 1998 | | | 2000 | | | 2001 | | | 2002 | |
| Southeast A | laska | | | | | | | | | | | | | | |
| Angoon | 51.0 | 7.1 | 58.1 | 53.0 | 2.0 | 55.0 | 64.3 | 6.1 | 70.4 | 85.0 | 5.2 | 90.2 | 72.7 | 2.2 | 74.9 |
| Craig | 62.0 | 7.5 | 69.5 | 52.7 | 5.2 | 57.9 | 35.0 | 3.0 | 38.0 | 54.0 | 4.0 | 58.0 | 38.9 | 5.7 | 44.6 |
| Haines | 36.8 | 10.5 | 47.3 | 30.7 | 10.6 | 41.3 | 17.5 | 0.0 | 17.5 | 19.3 | 1.1 | 20.4 | 19.6 | 26.2 | 45.8 |
| Hoonah | 143.8 | 9.9 | 153.8 | 169.7 | 19.8 | 189.6 | 147.9 | 16.0 | 163.9 | 143.4 | 13.2 | 156.7 | 96.4 | 6.0 | 102.4 |
| Hydaburg | 11.5 | 0.0 | 11.5 | 14.4 | 0.0 | 14.4 | 14.4 | 0.0 | 14.4 | 14.4 | 0.0 | 14.4 | 14.4 | 0.0 | 14.4 |
| Juneau | 99.0 | 0.0 | 99.0 | 90.4 | 15.3 | 105.7 | 59.9 | 3.5 | 63.4 | 29.9 | 1.6 | 31.5 | 17.2 | 1.4 | 18.7 |
| Kake | 68.4 | 7.6 | 76.0 | 123.0 | 6.1 | 129.1 | 101.7 | 3.6 | 105.3 | 85.6 | 10.7 | 96.4 | 98.2 | 10.6 | 108.7 |
| Ketchikan | 27.4 | 4.3 | 31.8 | 26.7 | 0.0 | 26.7 | 111.7 | 0.0 | 111.7 | 12.7 | 0.0 | 12.7 | 123.5 | 1.2 | 124.6 |
| Klawock | 94.0 | 0.0 | 94.0 | 83.0 | 0.0 | 83.0 | 67.1 | 0.0 | 67.1 | 71.5 | 0.0 | 71.5 | 24.0 | 0.0 | 24.0 |
| Klukwan | 1.1 | 0.0 | 1.1 | 10.5 | 0.0 | 10.5 | 18.0 | 0.0 | 18.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pelican | 14.5 | 0.0 | 14.5 | 15.8 | 2.4 | 18.2 | 7.5 | 0.0 | 7.5 | 9.0 | 0.0 | 9.0 | 1.8 | 0.0 | 1.8 |
| Petersburg | 11.8 | 4.3 | 16.2 | 23.9 | 9.3 | 33.2 | 20.7 | 7.2 | 27.9 | 16.0 | 22.0 | 38.0 | 45.0 | 18.0 | 63.0 |
| Saxman | 11.0 | 0.0 | 11.0 | 19.6 | 0.0 | 19.6 | 45.6 | 1.9 | 47.5 | 12.9 | 0.0 | 12.9 | 25.5 | 3.0 | 28.5 |

Table 21, continued.

| , | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|---------------|----------|----------|-------|---------|----------|-------|---------|----------|-------|---------|----------|-------|---------|----------|-------|
| | Harvest | and Lost | Take | Harvest | and Lost | Take | Harvest | and Lost | Take | Harvest | and Lost | Take | Harvest | and Lost | Take |
| Community | | 1997 | | | 1998 | | | 2000 | | | 2001 | | | 2002 | |
| Southeast Al | aska, co | ntinued. | | | | | | | | | | | | | |
| Sitka | 150.6 | 3.7 | 154.3 | 237.6 | 29.4 | 267.0 | 276.8 | 41.1 | 317.8 | 241.3 | 32.8 | 274.1 | 169.7 | 19.3 | 189.0 |
| Wrangell | 68.8 | 29.2 | 98.0 | 174.0 | 30.0 | 204.0 | 28.5 | 12.0 | 40.5 | 16.0 | 29.0 | 45.0 | 20.0 | 9.0 | 29.0 |
| Yakutat | 491.5 | 139.9 | 631.5 | 289.0 | 72.3 | 361.3 | 193.3 | 56.8 | 250.1 | 208.8 | 36.2 | 245.0 | 110.3 | 27.2 | 137.5 |
| North Pacific | Rim | | | | | | | | | | | | | | |
| Chenega Bay | 25.7 | 0.0 | 25.7 | 15.6 | 0.0 | 15.6 | 15.0 | 0.0 | 15.0 | 13.0 | 0.0 | 13.0 | 9.3 | 1.2 | 10.5 |
| Cordova | 120.8 | 0.0 | 120.8 | 79.1 | 9.3 | 88.3 | 87.8 | 14.0 | 101.8 | 102.7 | 5.8 | 108.5 | 102.7 | 5.8 | 108.5 |
| Nanwalek | 20.2 | 0.0 | 20.2 | 30.9 | 1.0 | 31.9 | 52.9 | 3.9 | 56.8 | 42.3 | 1.2 | 43.5 | 40.0 | 12.0 | 52.0 |
| Port Graham | 15.8 | 3.2 | 19.0 | 52.3 | 3.6 | 55.9 | 40.2 | 1.7 | 41.9 | 39.4 | 8.3 | 47.6 | 39.4 | 8.3 | 47.6 |
| Seldovia | 2.8 | 2.8 | 5.5 | 3.0 | 0.0 | 3.0 | 2.0 | 0.0 | 2.0 | 3.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 |
| Seward | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 3.5 | 0.0 | 3.5 |
| Tatitlek | 97.2 | 6.8 | 104.0 | 171.1 | 19.2 | 190.2 | 46.3 | 1.9 | 48.2 | 61.6 | 4.7 | 66.3 | 13.1 | 1.9 | 14.9 |
| Valdez | 12.5 | 0.0 | 12.5 | 41.7 | 8.3 | 50.0 | 41.7 | 8.3 | 50.0 | 18.0 | 0.0 | 18.0 | 44.0 | 6.0 | 50.0 |
| Upper Kenai- | -Cook In | let | | | | | | | | | | | | | |
| Anchorage | 23.6 | 1.2 | 24.8 | 43.8 | 7.5 | 51.3 | 43.8 | 7.5 | 51.3 | 45.3 | 2.7 | 48.0 | 39.8 | 8.0 | 47.7 |
| Homer | 41.1 | 2.6 | 43.7 | 22.8 | 6.0 | 28.8 | 22.8 | 6.0 | 28.8 | 21.0 | 0.0 | 21.0 | 23.5 | 0.0 | 23.5 |
| Kenai | 35.0 | 5.0 | 40.0 | 12.6 | 0.0 | 12.6 | 12.6 | 0.0 | 12.6 | 24.9 | 0.0 | 24.9 | 9.0 | 0.0 | 9.0 |
| Tyonek | 2.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.0 |
| Kodiak Island | k | | | | | | | | | | | | | | |
| Akhiok | 7.9 | 0.0 | 7.9 | 7.3 | 0.0 | 7.3 | 17.6 | 0.0 | 17.6 | 7.2 | 0.0 | 7.2 | 6.3 | 0.0 | 6.3 |
| Karluk | 19.0 | 0.0 | 19.0 | 11.0 | 0.0 | 11.0 | 19.5 | 1.5 | 21.0 | 8.3 | 0.0 | 8.3 | 8.3 | 0.0 | 8.3 |
| Kodiak City | 13.0 | 0.0 | 13.0 | 11.0 | 0.0 | 11.0 | 21.6 | 4.8 | 26.4 | 17.5 | 0.0 | 17.5 | 17.5 | 0.0 | 17.5 |
| Larsen Bay | 9.8 | 4.2 | 13.9 | 1.7 | 0.0 | 1.7 | 18.6 | 0.0 | 18.6 | 9.0 | 1.1 | 10.2 | 3.3 | 0.0 | 3.3 |
| Old Harbor | 80.0 | 4.8 | 84.8 | 55.1 | 1.1 | 56.2 | 59.1 | 0.0 | 59.1 | 71.3 | 0.0 | 71.3 | 40.5 | 0.0 | 40.5 |
| Ouzinkie | 55.2 | 9.4 | 64.6 | 82.0 | 2.5 | 84.5 | 43.0 | 1.0 | 44.0 | 33.4 | 2.6 | 36.0 | 63.4 | 10.2 | 73.6 |
| Port Lions | 5.0 | 0.0 | 5.0 | 6.0 | 0.0 | 6.0 | 6.4 | 0.0 | 6.4 | 8.8 | 1.1 | 9.9 | 13.0 | 0.0 | 13.0 |

Table 21, continued.

| | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|---------------|---------|--------|-------|---------|--------|-------|---------|--------|-------|---------|--------|-------|---------|--------|-------|---------|--------|-------|
| | | and | | | and | | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take |
| Community | | 2003 | | | 2004 | | | 2005 | | | 2006 | | | 2007 | | | 2008 | |
| Southeast A | laska | | | | | | | | | | | | | | | | | |
| Angoon | 54.9 | 0.0 | 54.9 | 47.4 | 3.2 | 50.5 | 57.5 | 6.2 | 63.7 | 46.0 | 8.0 | 54.0 | 42.6 | 0.0 | 42.6 | 41.0 | 5.0 | 46.0 |
| Craig | 28.0 | 6.0 | 34.0 | 29.7 | 5.5 | 35.2 | 26.0 | 3.0 | 29.0 | 1.3 | 0.0 | 1.3 | 2.1 | 0.0 | 2.1 | 2.1 | 0.0 | 2.1 |
| Haines | 12.0 | 0.0 | 12.0 | 7.0 | 0.0 | 7.0 | 2.0 | 0.0 | 2.0 | 4.7 | 0.0 | 4.7 | 19.5 | 0.0 | 19.5 | 15.6 | 2.6 | 18.2 |
| Hoonah | 52.2 | 10.4 | 62.6 | 106.2 | 9.0 | 115.2 | 53.0 | 11.0 | 64.0 | 55.6 | 7.6 | 63.2 | 34.4 | 6.1 | 40.5 | 25.3 | 6.3 | 31.6 |
| Hydaburg | 14.4 | 0.0 | 14.4 | 14.4 | 0.0 | 14.4 | 14.4 | 0.0 | 14.4 | 14.4 | 0.0 | 14.4 | 14.4 | 0.0 | 14.4 | 14.4 | 0.0 | 14.4 |
| Juneau | 30.3 | 24.8 | 55.0 | 13.6 | 9.1 | 22.7 | 8.0 | 1.0 | 9.0 | 26.1 | 23.4 | 49.5 | 16.0 | 10.0 | 26.0 | 8.0 | 1.3 | 9.3 |
| Kake | 52.1 | 0.0 | 52.1 | 96.2 | 0.0 | 96.2 | 47.6 | 4.6 | 52.3 | 40.5 | 0.0 | 40.5 | 24.5 | 1.1 | 25.7 | 23.0 | 2.0 | 25.0 |
| Ketchikan | 78.0 | 0.0 | 78.0 | 60.0 | 5.0 | 65.0 | 73.1 | 0.0 | 73.1 | 37.6 | 0.0 | 37.6 | 78.0 | 2.4 | 80.4 | 66.7 | 0.0 | 66.7 |
| Klawock | 59.8 | 0.0 | 59.8 | 29.2 | 7.6 | 36.8 | 20.0 | 2.0 | 22.0 | 16.2 | 3.5 | 19.7 | 43.9 | 5.2 | 49.1 | 21.4 | 1.3 | 22.7 |
| Klukwan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pelican | 1.8 | 0.0 | 1.8 | 1.8 | 0.0 | 1.8 | 10.5 | 0.0 | 10.5 | 8.4 | 0.0 | 8.4 | 8.4 | 0.0 | 8.4 | 10.0 | 0.0 | 10.0 |
| Petersburg | 9.6 | 7.2 | 16.8 | 10.3 | 8.3 | 18.6 | 30.0 | 22.0 | 52.0 | 10.0 | 11.0 | 21.0 | 9.0 | 17.0 | 26.0 | 7.8 | 12.2 | 20.0 |
| Saxman | 12.0 | 0.0 | 12.0 | 5.0 | 0.0 | 5.0 | 6.8 | 5.5 | 12.3 | 20.2 | 0.0 | 20.2 | 12.5 | 0.0 | 12.5 | 9.6 | 0.0 | 9.6 |
| Sitka | 220.4 | 5.2 | 225.6 | 141.2 | 19.3 | 160.5 | 23.0 | 1.0 | 24.0 | 141.2 | 19.3 | 160.5 | 128.4 | 2.1 | 130.5 | 140.6 | 1.0 | 141.6 |
| Wrangell | 68.0 | 18.7 | 86.7 | 33.3 | 8.3 | 41.7 | 33.3 | 8.3 | 41.7 | 33.3 | 8.3 | 41.7 | 33.3 | 8.3 | 41.7 | 33.3 | 8.3 | 41.7 |
| Yakutat | 251.7 | 51.5 | 303.2 | 147.7 | 27.1 | 174.8 | 140.2 | 24.1 | 164.3 | 137.3 | 33.8 | 171.0 | 118.6 | 15.9 | 134.4 | 115.2 | 20.0 | 135.1 |
| North Pacific | Rim | | | | | | | | | | | | | | | | | |
| Chenega Bay | / 44.9 | 14.6 | 59.5 | 21.1 | 1.1 | 22.2 | 4.9 | 0.0 | 4.9 | 21.3 | 0.0 | 21.3 | 40.4 | 0.0 | 40.4 | 10.7 | 0.0 | 10.7 |
| Cordova | 77.7 | 2.7 | 80.5 | 77.7 | 2.7 | 80.5 | 57.0 | 9.0 | 66.0 | 30.9 | 2.6 | 33.4 | 32.0 | 4.0 | 36.0 | 32.0 | 4.0 | 36.0 |
| Nanwalek | 30.0 | 3.0 | 33.0 | 30.2 | 12.5 | 42.7 | 20.3 | 6.4 | 26.7 | 23.6 | 5.1 | 28.7 | 22.3 | 5.9 | 28.2 | 33.7 | 8.2 | 41.9 |
| Port Graham | 45.0 | 0.0 | 45.0 | 44.4 | 2.8 | 47.2 | 63.5 | 8.5 | 71.9 | 51.0 | 0.0 | 51.0 | 7.8 | 1.6 | 9.3 | 16.5 | 5.5 | 22.0 |
| Seldovia | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | 2.7 | 0.0 | 2.7 | 2.0 | 0.0 | 2.0 | 1.3 | 0.0 | 1.3 |
| Seward | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tatitlek | 91.1 | 0.0 | 91.1 | 90.2 | 23.1 | 113.3 | 137.8 | 16.9 | 154.7 | 218.7 | 16.0 | 234.7 | 133.4 | 19.1 | 152.5 | 125.4 | 15.4 | 140.8 |
| Valdez | 60.0 | 5.0 | 65.0 | 58.0 | 0.0 | 58.0 | 63.0 | 6.0 | 69.0 | 63.0 | 6.0 | 69.0 | 0.0 | 0.0 | 0.0 | 24.0 | 0.0 | 24.0 |

Table 21, continued.

| | | Struck | | | Struck and | | | Struck and | | | Struck | | | Struck and | | | Struck | |
|--------------|------------|--------|------|---------|------------|------|---------|------------|-------|---------|--------|------|---------|---------------|------|---------|--------|------|
| | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take |
| Community | | 2003 | | | 2004 | | | 2005 | | | 2006 | | | 2007 | | | 2008 | |
| Upper Kenai | -Cook Inle | et | | | | | | | | | | | | | | | | |
| Anchorage | 55.0 | 15.0 | 70.0 | 46.8 | 13.4 | 60.2 | 25.0 | 13.3 | 38.3 | 25.0 | 13.3 | 38.3 | 27.0 | 4.0 | 31.0 | 28.6 | 1.8 | 30.4 |
| Homer | 10.8 | 0.0 | 10.8 | 3.7 | 0.0 | 3.7 | 5.6 | 0.0 | 5.6 | 5.6 | 0.0 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 |
| Kenai | 20.0 | 0.0 | 20.0 | 6.0 | 0.0 | 6.0 | 6.0 | 0.0 | 6.0 | 6.0 | 0.0 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tyonek | 5.0 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 4.5 | 0.0 | 4.5 |
| Kodiak Islan | d | | | | | | | | | | | | | | | | | |
| Akhiok | 5.5 | 0.0 | 5.5 | 4.2 | 1.4 | 5.6 | 6.9 | 0.0 | 6.9 | 13.6 | 1.1 | 14.7 | 7.0 | 0.0 | 7.0 | 10.5 | 5.2 | 15.7 |
| Karluk | 4.3 | 0.0 | 4.3 | 3.1 | 0.0 | 3.1 | 19.4 | 0.0 | 19.4 | 19.4 | 0.0 | 19.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kodiak City | 32.0 | 6.0 | 38.0 | 21.0 | 4.5 | 25.5 | 10.8 | 0.0 | 10.8 | 10.8 | 0.0 | 10.8 | 21.3 | 2.2 | 23.6 | 62.6 | 8.6 | 71.3 |
| Larsen Bay | 2.5 | 0.0 | 2.5 | 12.5 | 0.0 | 12.5 | 17.0 | 0.0 | 17.0 | 20.3 | 0.0 | 20.3 | 8.6 | 0.0 | 8.6 | 5.2 | 0.0 | 5.2 |
| Old Harbor | 66.7 | 2.9 | 69.6 | 37.8 | 5.9 | 43.7 | 37.5 | 1.1 | 38.6 | 20.2 | 0.0 | 20.2 | 35.2 | 3.5 | 38.7 | 35.2 | 3.5 | 38.7 |
| Ouzinkie | 48.8 | 4.1 | 52.8 | 73.0 | 3.9 | 76.9 | 136.6 | 9.5 | 146.1 | 49.0 | 9.1 | 58.1 | 49.5 | 0.0 | 49.5 | 32.1 | 3.1 | 35.2 |
| Port Lions | 12.9 | 0.0 | 12.9 | 20.6 | 0.0 | 20.6 | 77.0 | 0.0 | 77.0 | 77.0 | 0.0 | 77.0 | 77.0 | 0.0 | 77.0 | 20.0 | 6.0 | 26.0 |

Note: Surveys not completed for study year 1999.

Table 22.—Subsistence harbor seal takes by Alaska Natives by Western Gulf–Bering Sea communities, 1992–2008.

| | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|------------------|---------|--------|------|---------|--------|------|---------|--------|-------|---------|--------|------|---------|--------|------|
| | | and | | | and | | | and | | | and | | | and | |
| | Harvest | | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take |
| Community | | 1992 | | | 1993 | | | 1994 | | | 1995 | | | 1996 | |
| South Alaska F | | | | | | | | | | | | | | | |
| Chignik Bay | 2.4 | 1.2 | 3.6 | 6.3 | 5.0 | 11.3 | 3.4 | 0.0 | 3.4 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 |
| Chignik Lagoon | | 0.0 | 4.0 | 4.3 | 1.1 | 5.3 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chignik Lake | 8.3 | 2.1 | 10.3 | 15.2 | 5.5 | 20.8 | 20.8 | 1.3 | 22.1 | 3.2 | 1.1 | 4.3 | 3.5 | 0.0 | 3.5 |
| False Pass | 18.0 | 0.0 | 18.0 | 19.0 | 0.0 | 19.0 | 12.6 | 2.1 | 14.7 | 25.9 | 1.2 | 27.1 | 13.9 | 0.0 | 13.9 |
| Ivanof Bay | 10.0 | 1.0 | 11.0 | 16.3 | 4.7 | 21.0 | 12.0 | 1.3 | 13.3 | 18.7 | 2.7 | 21.3 | 13.2 | 0.0 | 13.2 |
| King Cove | 26.0 | 6.7 | 32.7 | 12.8 | 3.5 | 16.3 | 20.9 | 1.1 | 22.0 | 49.0 | 3.0 | 52.0 | 14.0 | 5.0 | 19.0 |
| Nelson Lagoon | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | |
| Perryville | 8.9 | 2.2 | 11.1 | 12.8 | 2.1 | 15.0 | 21.1 | 0.0 | 21.1 | 11.0 | 3.1 | 14.1 | 20.5 | 0.0 | 20.5 |
| Sand Point | 37.9 | 0.0 | 37.9 | 13.3 | 1.2 | 14.4 | 7.8 | 4.3 | 12.1 | 9.2 | 0.0 | 9.2 | 20.2 | 0.0 | 20.2 |
| Aleutian Island | ls | | | | | | | | | | | | | | |
| Adak | | | | | | | | | | | | | | | |
| Akutan | 12.9 | 4.3 | 17.1 | 15.6 | 4.5 | 20.1 | 13.8 | 3.5 | 17.3 | 7.0 | 0.0 | 7.0 | 8.0 | 7.0 | 15.0 |
| Atka | 28.6 | 9.9 | 38.5 | 32.7 | 0.0 | 32.7 | 73.7 | 8.7 | 82.3 | 42.5 | 0.0 | 42.5 | 22.7 | 2.2 | 24.8 |
| Nikolski | 5.8 | 3.5 | 9.3 | 4.0 | 1.0 | 5.0 | 6.0 | 0.0 | 6.0 | 0.0 | 0.0 | 0.0 | 4.0 | 1.0 | 5.0 |
| Unalaska | 47.0 | 3.7 | 50.8 | 32.7 | 9.9 | 42.6 | 31.4 | 10.5 | 41.8 | 37.4 | 9.7 | 47.1 | 20.3 | 5.1 | 25.4 |
| Pribilof Islands | 3 | | | | | | | | | | | | | | |
| St. George | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| St. Paul | 2.3 | 1.2 | 3.5 | 2.3 | 1.2 | 3.5 | 7.3 | 0.0 | 7.3 | 2.5 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 |
| South Bristol E | Зау | | | | | | | | | | | | | | |
| Egegik | 3.3 | 14.3 | 17.7 | 7.7 | 3.3 | 11.0 | 12.8 | 0.0 | 12.8 | 1.4 | 0.0 | 1.4 | 2.8 | 0.0 | 2.8 |
| King Salmon | 10.2 | 0.0 | 10.2 | 21.3 | 10.7 | 32.0 | 17.0 | 4.5 | 21.5 | 13.0 | 3.0 | 16.0 | 9.5 | 2.4 | 11.9 |
| Levelock | 10.8 | 0.0 | 10.8 | 2.7 | 5.4 | 8.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naknek | 26.6 | 7.0 | 33.6 | 2.7 | 0.0 | 2.7 | 21.4 | 8.3 | 29.7 | 34.8 | 15.3 | 50.2 | 16.2 | 7.5 | 23.7 |
| Pilot Point | 5.4 | 4.3 | 9.7 | 2.2 | 0.0 | 2.2 | 3.1 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Port Heiden | 40.5 | 36.0 | 76.5 | 30.7 | 19.9 | 50.6 | 63.0 | 45.3 | 108.3 | 17.0 | 10.0 | 27.0 | 34.3 | 34.3 | 68.6 |
| South Naknek | 2.3 | 6.9 | 9.2 | 6.4 | 18.0 | 24.4 | 4.4 | 1.1 | 5.5 | 2.1 | 0.0 | 2.1 | 1.0 | 0.0 | 1.0 |

Table 22, continued.

| | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|-----------------|---------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|
| | | and | | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take |
| Community | | 1992 | | | 1993 | | | 1994 | | | 1995 | | | 1996 | |
| North Bristol E | Bay | | | | | | | | | | | _ | | | |
| Aleknagik | 0.0 | 3.6 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Clark's Point | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dillingham | 29.2 | 3.8 | 32.9 | 18.0 | 4.2 | 22.2 | 16.2 | 0.0 | 16.2 | 13.3 | 0.0 | 13.3 | 0.0 | 0.0 | 0.0 |
| Manokotak | 4.9 | 3.8 | 8.7 | 3.2 | 0.0 | 3.2 | 0.0 | 0.0 | 0.0 | 9.3 | 2.4 | 11.7 | 2.4 | 3.6 | 6.0 |
| Togiak | 24.3 | 2.0 | 26.3 | 24.9 | 15.8 | 40.7 | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 3.3 | 3.9 | 0.0 | 3.9 |
| Twin Hills | | | | | | | | | | | | | 23.3 | 6.5 | 29.8 |

| | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | _ |
|------------------|----------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|
| | | and | | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take |
| Community | | 1997 | | • | 1998 | | | 2000 |) | | 2001 | | | 2002 | |
| South Alaska P | eninsula | l | | | | | | | | | | | | | |
| Chignik Bay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 1.3 |
| Chignik Lagoon | 1.3 | 1.3 | 2.7 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 1.2 | 1.1 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 |
| Chignik Lake | 2.2 | 1.1 | 3.3 | 1.9 | 0.0 | 1.9 | 3.3 | 0.0 | 3.3 | 1.3 | 1.3 | 2.6 | 2.9 | 0.0 | 2.9 |
| False Pass | 8.0 | 0.0 | 8.0 | 17.8 | 1.3 | 19.1 | 2.5 | 1.2 | 3.7 | 2.5 | 1.2 | 3.7 | 2.5 | 0.0 | 2.5 |
| Ivanof Bay | 9.0 | 1.8 | 10.8 | 9.0 | 1.8 | 10.8 | 3.2 | 0.0 | 3.2 | 7.0 | 1.4 | 8.4 | 7.0 | 1.4 | 8.4 |
| King Cove | 16.9 | 2.1 | 19.1 | 18.2 | 0.0 | 18.2 | 19.3 | 2.1 | 21.4 | 22.0 | 4.0 | 26.0 | 7.5 | 3.0 | 10.5 |
| Nelson Lagoon | | | | | | | | | | | | | | | |
| Perryville | 21.7 | 5.7 | 27.4 | 21.0 | 4.4 | 25.4 | 21.0 | 15.0 | 36.0 | 24.0 | 6.9 | 30.9 | 33.8 | 15.0 | 48.8 |
| Sand Point | 9.1 | 0.0 | 9.1 | 12.0 | 0.0 | 12.0 | 15.0 | 0.0 | 15.0 | 10.9 | 1.6 | 12.4 | 15.0 | 0.0 | 15.0 |
| Aleutian Island | s | | | | | | | | | | | | | | |
| Adak | | | | | | | | | | | | | | | |
| Akutan | 14.0 | 3.8 | 17.8 | 14.0 | 3.8 | 17.8 | 25.7 | 5.4 | 31.1 | 13.6 | 2.7 | 16.4 | 10.2 | 0.0 | 10.2 |
| Atka | 26.0 | 1.5 | 27.5 | 16.8 | 0.0 | 16.8 | 16.8 | 0.0 | 16.8 | 63.3 | 6.7 | 70.0 | 36.0 | 0.0 | 36.0 |
| Nikolski | 4.0 | 1.0 | 5.0 | 2.2 | 0.0 | 2.2 | 2.2 | 0.0 | 2.2 | 5.3 | 0.0 | 5.3 | 3.0 | 1.0 | 4.0 |
| Unalaska | 26.5 | 0.0 | 26.5 | 12.7 | 0.0 | 12.7 | 34.3 | 5.1 | 39.4 | 37.8 | 3.2 | 41.0 | 14.3 | 1.4 | 15.7 |
| Pribilof Islands | | | | | | | | | | | | | | | |
| St. George | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| St. Paul | 0.0 | 0.0 | 0.0 | 4.6 | 0.0 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 22, continued.

| ŕ | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|-----------------|---------|--------|-------|---------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|
| | | and | | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take |
| Community | | 1997 | | | 1998 | | | 2000 |) | | 2001 | | | 2002 | |
| South Bristol | Вау | | | | | | | | | | | | | | |
| Egegik | 1.6 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 4.0 | 3.0 | 7.0 | 6.3 | 1.0 | 7.3 | 2.2 | 1.1 | 3.2 |
| King Salmon | 9.7 | 0.0 | 9.7 | 5.2 | 0.0 | 5.2 | 3.3 | 9.8 | 13.0 | 8.5 | 6.1 | 14.6 | 2.9 | 0.0 | 2.9 |
| Levelock | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 0.0 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naknek | 24.8 | 6.5 | 31.2 | 15.7 | 7.8 | 23.5 | 16.3 | 0.0 | 16.3 | 15.1 | 4.3 | 19.4 | 26.2 | 12.5 | 38.7 |
| Pilot Point | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 2.1 | 7.4 | 2.0 | 2.0 | 4.0 | 2.0 | 2.0 | 4.0 |
| Port Heiden | 69.2 | 50.0 | 119.2 | 36.1 | 18.6 | 54.7 | 19.6 | 0.0 | 19.6 | 10.1 | 3.4 | 13.4 | 30.4 | 18.3 | 48.7 |
| South Naknek | 2.5 | 9.8 | 12.3 | 5.2 | 7.9 | 13.1 | 4.1 | 2.7 | 6.8 | 11.0 | 3.0 | 14.0 | 16.0 | 3.0 | 19.0 |
| North Bristol E | Зау | | | | | | | | | | | | | | |
| Aleknagik | 1.2 | 0.0 | 1.2 | 3.1 | 0.0 | 3.1 | 2.5 | 0.0 | 2.5 | 0.0 | 1.2 | 1.2 | 0.0 | 2.2 | 2.2 |
| Clark's Point | 1.3 | 0.0 | 1.3 | 1.3 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dillingham | 1.2 | 0.0 | 1.2 | 8.5 | 0.0 | 8.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manokotak | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 4.0 | 1.2 | 0.0 | 1.2 | 3.5 | 0.0 | 3.5 | 0.0 | 0.0 | 0.0 |
| Togiak | 6.7 | 0.0 | 6.7 | 14.1 | 1.4 | 15.5 | 5.1 | 1.1 | 6.3 | 5.3 | 0.0 | 5.3 | 13.9 | 3.6 | 17.4 |
| Twin Hills | 8.4 | 2.1 | 10.5 | 2.2 | 2.2 | 4.4 | 1.6 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 3.3 |

| | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|----------------|-----------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|
| | | and | | | and | | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take |
| Community | | 2003 | | | 2004 | | | 2005 | | | 2006 | | | 2007 | | | 2008 | |
| South Alaska P | Peninsula | Į | | | | | | | | | | | | | | | | |
| Chignik Bay | 2.8 | 0.0 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 1.4 | 5.8 | 4.3 | 0.0 | 4.3 | 2.3 | 0.0 | 2.3 |
| Chignik Lagoon | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chignik Lake | 8.9 | 3.0 | 11.8 | 1.1 | 0.0 | 1.1 | 3.6 | 1.2 | 4.8 | 0.0 | 2.9 | 2.9 | 8.1 | 0.0 | 8.1 | 20.3 | 0.0 | 20.3 |
| False Pass | 2.8 | 0.0 | 2.8 | 6.7 | 3.3 | 10.0 | 5.7 | 0.0 | 5.7 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 2.8 | 0.0 | 2.8 |
| Ivanof Bay | | | | 2.8 | 0.0 | 2.8 | | | | 3.0 | 0.0 | 3.0 | 3.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 |
| King Cove | 11.0 | 4.4 | 15.4 | 32.3 | 0.0 | 32.3 | 21.5 | 0.0 | 21.5 | 14.0 | 0.0 | 14.0 | 3.9 | 1.3 | 5.1 | 3.8 | 0.0 | 3.8 |
| Nelson Lagoon | | | | 20.0 | 5.6 | 25.6 | | | | | | | | | | | | |
| Perryville | 51.3 | 6.1 | 57.4 | 15.0 | 1.3 | 16.3 | 21.0 | 6.0 | 27.0 | 27.4 | 14.3 | 41.7 | 18.9 | 12.1 | 31.0 | 47.1 | 15.7 | 62.8 |
| Sand Point | 14.3 | 0.0 | 14.3 | 0.0 | 0.0 | 0.0 | 15.0 | 1.3 | 16.3 | 3.8 | 1.9 | 5.6 | 48.8 | 5.1 | 53.9 | 31.3 | 1.6 | 32.9 |

Table 22, continued.

| • | | Struck | |
|------------------|---------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|
| | | and | | | and | | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take | Harvest | | Take |
| Community | | 2003 | | | 2004 | | | 2005 | | | 2006 | | | 2007 | | | 2008 | |
| Aleutian Island | ds | | | | | | | | | | | | | | | | | |
| Adak | 4.0 | 1.0 | 5.0 | 0.0 | 0.0 | 0.0 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 4.0 | 2.0 | 0.0 | 2.0 |
| Akutan | 10.8 | 4.3 | 15.2 | 9.5 | 1.6 | 11.1 | 8.5 | 2.4 | 10.9 | 2.4 | 0.0 | 2.4 | 11.5 | 1.3 | 12.7 | 17.0 | 0.0 | 17.0 |
| Atka | 57.6 | 1.6 | 59.2 | 73.9 | 16.9 | 90.8 | 47.2 | 9.1 | 56.4 | 26.0 | 4.0 | 30.0 | 38.0 | 2.0 | 40.0 | 17.5 | 5.0 | 22.5 |
| Nikolski | 11.0 | 3.0 | 14.0 | 6.0 | 1.0 | 7.0 | 6.0 | 1.0 | 7.0 | 17.0 | 1.0 | 18.0 | 6.0 | 0.0 | 6.0 | 7.0 | 1.0 | 8.0 |
| Unalaska | 14.3 | 1.4 | 15.7 | 28.6 | 8.6 | 37.1 | 30.0 | 4.5 | 34.5 | 9.0 | 3.6 | 12.6 | 9.0 | 3.6 | 12.6 | 0.0 | 0.0 | 0.0 |
| Pribilof Islands | S | | | | | | | | | | | | | | | | | |
| St. George | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| St. Paul | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| South Bristol I | Вау | | | | | | | | | | | | | | | | | |
| Egegik | 4.0 | 1.0 | 5.0 | 1.0 | 1.0 | 2.1 | 1.1 | 2.1 | 3.2 | 3.0 | 0.0 | 3.0 | 3.0 | 0.0 | 3.0 | 0.0 | 1.1 | 1.1 |
| King Salmon | 7.3 | 6.1 | 13.4 | 5.0 | 3.3 | 8.3 | 0.0 | 0.0 | 0.0 | 7.0 | 0.0 | 7.0 | 1.3 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 |
| Levelock | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.1 | 13.1 | 26.1 |
| Naknek | 10.5 | 0.0 | 10.5 | 15.2 | 3.8 | 19.0 | 6.2 | 0.0 | 6.2 | 15.1 | 7.5 | 22.6 | 20.1 | 0.0 | 20.1 | 15.1 | 7.6 | 22.7 |
| Pilot Point | 2.7 | 2.7 | 5.3 | 1.9 | 5.6 | 7.4 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.0 | 3.0 | 0.0 | 3.0 | 2.6 | 0.0 | 2.6 |
| Port Heiden | 10.0 | 5.6 | 15.6 | 20.0 | 13.0 | 33.0 | 13.0 | 19.5 | 32.5 | 17.3 | 6.5 | 23.8 | 24.0 | 22.0 | 46.0 | 36.1 | 16.4 | 52.6 |
| South Naknek | 1.1 | 0.0 | 1.1 | 15.4 | 4.4 | 19.8 | 17.3 | 9.2 | 26.5 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| North Bristol E | Вау | | | | | | | | | | | | | | | | | |
| Aleknagik | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 1.7 | 6.7 |
| Clark's Point | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 0.0 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dillingham | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 1.3 | 0.0 | 1.0 | 1.0 | 0.0 | 1.0 | 1.0 | 5.5 | 0.0 | 5.5 |
| Manokotak | 2.2 | 0.0 | 2.2 | 4.0 | 0.0 | 4.0 | 6.6 | 8.9 | 15.5 | 6.6 | 8.9 | 15.5 | 0.0 | 0.0 | 0.0 | 9.2 | 1.4 | 10.6 |
| Togiak | 22.0 | 0.0 | 22.0 | 6.9 | 9.7 | 16.6 | 10.8 | 0.0 | 10.8 | 11.5 | 0.0 | 11.5 | 7.8 | 2.2 | 10.0 | 46.0 | 14.1 | 60.0 |
| Twin Hills | 5.6 | 1.4 | 7.0 | 6.8 | 1.9 | 8.8 | 2.5 | 0.0 | 2.5 | 1.0 | 0.0 | 1.0 | 1.0 | 2.0 | 3.0 | 0.0 | 0.0 | 0.0 |

Note: Surveys not completed for study year 1999.

Table 23.–Subsistence sea lion takes by Alaska Natives by Eastern Gulf of Alaska communities, 1992–2008.

| | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|---------------|---------|--------|------|---------|--------|------|---------|--------|------|---------|----------|------|---------|----------|------|
| | Harvest | | Take | Harvest | | Take | Harvest | | Take | Harvest | and Lost | Take | Harvest | and Lost | Take |
| Community | | 1992 | | | 1993 | | | 1994 | | | 1995 | | | 1996 | |
| Southeast Al | aska | | | | | | | | | | | | | | |
| Angoon | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Craig | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Haines | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hoonah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hydaburg | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Juneau | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kake | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ketchikan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Klawock | 1.4 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Klukwan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pelican | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Petersburg | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Saxman | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sitka | 3.8 | 1.3 | 5.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wrangell | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Yakutat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Pacific | Rim | | | | | | | | | | | | | | |
| Chenega Bay | 6.9 | 1.2 | 8.1 | 11.1 | 6.6 | 17.7 | 6.6 | 0.0 | 6.6 | 6.6 | 0.0 | 6.6 | 2.0 | 0.0 | 2.0 |
| Cordova | 0.0 | 0.0 | 0.0 | 1.5 | 0.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| Nanwalek | 6.3 | 0.0 | 6.3 | 8.5 | 1.1 | 9.5 | 1.2 | 2.3 | 3.5 | 9.2 | 0.0 | 9.2 | 4.3 | 1.1 | 5.3 |
| Port Graham | 3.5 | 1.2 | 4.7 | 1.1 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 10.0 | 2.0 | 12.0 | 1.1 | 0.0 | 1.1 |
| Seldovia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Seward | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tatitlek | 8.3 | 4.2 | 12.5 | 4.1 | 1.0 | 5.2 | 8.8 | 7.4 | 16.2 | 2.6 | 0.0 | 2.6 | 5.0 | 0.0 | 5.0 |
| Valdez | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Upper Kenai- | | | | | | | | | | | | | | | |
| Anchorage | 5.7 | 3.8 | 9.5 | 7.8 | 3.3 | 11.1 | 1.4 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 |
| Homer | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kenai | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | 2.3 | 0.0 | 2.3 |
| Tyonek | 0.0 | 0.0 | 0.0 | | | | | | | | | | 0.0 | 0.0 | 0.0 |

Table 23, continued.

| | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|---------------|---------|----------|------|---------|----------|------|---------|----------|------|---------|----------|-------|---------|----------|------|
| | Harvest | and Lost | Take | Harvest | and Lost | Take |
| Community | | 1992 | | | 1993 | | | 1994 | | | 1995 | | | 1996 | |
| Kodiak Island | d | | | | | | | | | | | | | | |
| Akhiok | 3.0 | 1.0 | 4.0 | 0.0 | 0.0 | 0.0 | 3.2 | 0.0 | 3.2 | 1.0 | 1.0 | 2.0 | 6.0 | 1.0 | 7.0 |
| Karluk | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kodiak City | 0.0 | 0.0 | 0.0 | 0.0 | 12.7 | 12.7 | 1.1 | 0.0 | 1.1 | 2.2 | 0.0 | 2.2 | 3.0 | 0.0 | 3.0 |
| Larsen Bay | 1.1 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 2.2 | 0.0 | 2.2 | 2.0 | 1.0 | 3.0 | 0.0 | 0.0 | 0.0 |
| Old Harbor | 32.9 | 13.2 | 46.1 | 32.1 | 1.0 | 33.2 | 46.2 | 1.3 | 47.5 | 107.1 | 5.7 | 112.9 | 44.9 | 5.3 | 50.2 |
| Ouzinkie | 3.4 | 0.0 | 3.4 | 5.4 | 2.2 | 7.6 | 4.4 | 2.9 | 7.3 | 15.6 | 0.0 | 15.6 | 0.0 | 0.0 | 0.0 |
| Port Lions | 1.1 | 2.2 | 3.3 | 4.0 | 1.0 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|-------------|---------|----------|------|---------|----------|------|---------|----------|------|---------|----------|------|---------|----------|------|
| | Harvest | and Lost | Take |
| Community | | 1997 | | | 1998 | | | 2000 | | | 2001 | | | 2002 | |
| Southeast A | laska | | | | | | | | | | | | | | |
| Angoon | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Craig | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Haines | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hoonah | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hydaburg | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Juneau | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kake | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ketchikan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Klawock | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 |
| Klukwan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pelican | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Petersburg | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Saxman | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sitka | 0.0 | 0.0 | 0.0 | 3.3 | 4.4 | 7.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.0 | 0.0 | 6.0 |
| Wrangell | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Yakutat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 23, continued.

| 1 abic 20, coi | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|----------------|----------|----------|------|---------|----------|------|---------|----------|------|---------|----------|------|---------|--------|------|
| | Harvest | and Lost | Take | Harvest | and Lost | Take | Harvest | and Lost | Take | Harvest | and Lost | Take | Harvest | | Take |
| Community | | 1997 | | | 1998 | | | 2000 | | | 2001 | | | 2002 | , |
| North Pacific | Rim | | | | | | | | | | | | | | , |
| Chenega Bay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 |
| Cordova | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 0.0 | 3.5 | 3.5 | 0.0 | 3.5 |
| Nanwalek | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 2.1 | 6.5 | 0.0 | 6.5 | 3.7 | 0.0 | 3.7 | 2.0 | 0.0 | 2.0 |
| Port Graham | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 1.2 | 1.7 | 3.4 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Seldovia | 1.7 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Seward | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tatitlek | 2.7 | 1.4 | 4.1 | 15.1 | 6.8 | 21.9 | 1.9 | 0.0 | 1.9 | 6.3 | 0.0 | 6.3 | 0.0 | 0.0 | 0.0 |
| Valdez | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 3.3 | 1.7 | 1.7 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Upper Kenai- | -Cook In | let | | | | | | | | | | | | | |
| Anchorage | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 |
| Homer | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kenai | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tyonek | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kodiak Island | t | | | | | | | | | | | | | | |
| Akhiok | 6.6 | 1.3 | 7.9 | 3.1 | 0.0 | 3.1 | 3.2 | 0.0 | 3.2 | 1.4 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 |
| Karluk | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kodiak City | 3.0 | 0.0 | 3.0 | 0.0 | 1.0 | 1.0 | 2.4 | 0.0 | 2.4 | 2.5 | 0.0 | 2.5 | 2.5 | 0.0 | 2.5 |
| Larsen Bay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Old Harbor | 22.7 | 3.6 | 26.3 | 10.3 | 2.3 | 12.6 | 12.9 | 0.0 | 12.9 | 26.3 | 2.2 | 28.5 | 8.5 | 0.0 | 8.5 |
| Ouzinkie | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 2.6 | 5.1 | 0.0 | 5.1 |
| Port Lions | 1.0 | 0.0 | 1.0 | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 23, continued.

| , | | Struck | |
|---------------|---------|----------|------|---------|----------|------|---------|----------|------|---------|----------|------|---------|----------|------|---------|----------|------|
| | Harvest | and Lost | Take |
| Community | | 2003 | | | 2004 | | | 2005 | | | 2006 | | | 2007 | | | 2008 | |
| Southeast Al | aska | | | | | | | | | | | | | | | | | _ |
| Angoon | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Craig | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Haines | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Hoonah | 0.0 | 4.6 | 4.6 | 0.0 | 7.2 | 7.2 | 0.0 | 9.0 | 9.0 | 0.0 | 10.1 | 10.1 | 0.0 | 6.1 | 6.1 | 0.0 | 6.3 | 6.3 |
| Hydaburg | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Juneau | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kake | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ketchikan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 3.3 |
| Klawock | 2.3 | 0.0 | 2.3 | 1.3 | 0.0 | 1.3 | 0.0 | 10.0 | 10.0 | 1.2 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Klukwan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pelican | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Petersburg | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Saxman | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sitka | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wrangell | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Yakutat | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Pacific | Rim | | | | | | | | | | | | | | | | | |
| Chenega Bay | 0.0 | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 |
| Cordova | 2.7 | 0.0 | 2.7 | 2.7 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| Nanwalek | 3.0 | 2.0 | 5.0 | 2.1 | 0.0 | 2.1 | 1.1 | 0.0 | 1.1 | 1.0 | 0.0 | 1.0 | 2.4 | 2.4 | 4.7 | 1.0 | 1.0 | 2.0 |
| Port Graham | 1.0 | 0.0 | 1.0 | 6.9 | 5.6 | 12.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 0.0 | 2.8 |
| Seldovia | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Seward | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tatitlek | 12.4 | 1.1 | 13.5 | 26.3 | 10.3 | 36.6 | 39.0 | 9.1 | 48.1 | 16.0 | 8.0 | 24.0 | 41.3 | 7.9 | 49.2 | 16.5 | 3.3 | 19.8 |
| Valdez | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 23, continued.

| | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|---------------|-----------|----------|------|---------|----------|------|---------|----------|------|---------|----------|------|---------|----------|------|---------|----------|------|
| | Harvest | and Lost | Take | Harvest | and Lost | Take | Harvest | and Lost | Take | Harvest | and Lost | Take | Harvest | and Lost | Take | Harvest | and Lost | Take |
| Community | | 2003 | | | 2004 | | | 2005 | | | 2006 | | | 2007 | | | 2008 | |
| Upper Kenai- | -Cook Inl | et | | | | | | | | | | | | | | | | |
| Anchorage | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Homer | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kenai | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tyonek | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kodiak Island | i | | | | | | | | | | | | | | | | | |
| Akhiok | 2.7 | 1.4 | 4.1 | 1.4 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 2.3 | 3.0 | 0.0 | 3.0 | 2.1 | 3.1 | 5.2 |
| Karluk | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Kodiak City | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Larsen Bay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Old Harbor | 27.6 | 4.4 | 31.9 | 8.3 | 3.5 | 11.8 | 18.2 | 3.2 | 21.4 | 1.1 | 0.0 | 1.1 | 7.0 | 3.5 | 10.5 | 7.0 | 3.5 | 10.5 |
| Ouzinkie | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 |
| Port Lions | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 1.2 | 3.7 | 0.0 | 3.7 | 3.7 | 0.0 | 3.7 | 3.7 | 0.0 | 3.7 | 3.0 | 0.0 | 3.0 |

Note: Surveys not completed for study year 1999.

Table 24.—Subsistence sea lion takes by Alaska Natives by Western Gulf-Bering Sea communities, 1992–2008.

| | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|----------------|-----------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|
| | | and | | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take |
| Community | | 1992 | | | 1993 | | | 199 | 4 | | 1995 | | | 1996 | |
| South Alaska F | Peninsula | 3 | | | | | | | | | | | | | |
| Chignik Bay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chignik Lagoon | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chignik Lake | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| False Pass | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ivanof Bay | 0.0 | 0.0 | 0.0 | 2.3 | 1.2 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 0.0 | 2.4 |
| King Cove | 1.3 | 0.0 | 1.3 | 1.2 | 0.0 | 1.2 | 3.2 | 1.1 | 4.3 | 5.0 | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 |
| Perryville | 1.1 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 1.4 | 3.1 | 0.0 | 3.1 | 1.3 | 1.3 | 2.6 |
| Sand Point | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 24, continued.

| Table 24, conti | ilucu. | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|------------------|---------|--------|-------|---------|--------|-------|---------|--------|-------|---------|--------|------|---------|--------|------|
| | | and | | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take | Harvest | | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take |
| Community | | 1992 | | | 1993 | | | 1994 | | | 1995 | | | 1996 | |
| Aleutian Island | ls | | | | | | | | | | | | | | |
| Adak | | | | | | | | | | | | | | | |
| Akutan | 25.7 | 4.3 | 30.0 | 14.5 | 8.9 | 23.4 | 12.7 | 3.5 | 16.2 | 6.0 | 0.0 | 6.0 | 11.0 | 5.0 | 16.0 |
| Atka | 28.6 | 9.9 | 38.5 | 25.1 | 0.0 | 25.1 | 45.5 | 8.7 | 54.2 | 40.0 | 0.0 | 40.0 | 17.3 | 0.0 | 17.3 |
| Nikolski | 8.2 | 0.0 | 8.2 | 6.0 | 0.0 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.0 |
| Unalaska | 41.8 | 16.7 | 58.5 | 53.4 | 15.9 | 69.3 | 43.6 | 8.4 | 51.9 | 39.0 | 11.1 | 50.1 | 15.2 | 6.3 | 21.6 |
| Pribilof Islands | 3 | | | | | | | | | | | | | | |
| St. George | 14.9 | 55.0 | 69.9 | 3.7 | 14.8 | 18.6 | 2.8 | 17.1 | 19.9 | 4.0 | 4.0 | 8.0 | 4.0 | 4.0 | 8.0 |
| St. Paul* | 161.7 | 65.2 | 226.8 | 161.7 | 65.2 | 226.8 | 147.0 | 26.4 | 173.4 | 53.6 | 6.3 | 59.9 | 28.2 | 10.2 | 38.4 |
| South Bristol B | Зау | | | | | | | | | | | | | | |
| Egegik | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| King Salmon | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Levelock | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naknek | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pilot Point | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Port Heiden | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| South Naknek | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Bristol E | Bay | | | | | | | | | _ | | | | | |
| Aleknagik | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Clark's Point | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dillingham | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manokotak | 3.9 | 0.0 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Togiak | 3.9 | 0.0 | 3.9 | 3.3 | 3.3 | 6.5 | 1.2 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Twin Hills | | | | | | | | | | | | | 0.0 | 0.0 | 0.0 |

Table 24, continued.

| | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|------------------|---------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|
| | | and | | | and | | | and | | | and | | | and | |
| | Harvest | | Take | Harvest | Lost | Take |
| Community | | 1997 | | | 1998 | | | 2000 | | | 2001 | | | 2002 | |
| South Alaska F | | | | | | | | | | | | | | | |
| Chignik Bay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chignik Lagoon | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chignik Lake | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| False Pass | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ivanof Bay | 1.8 | 0.0 | 1.8 | 1.8 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 2.8 | 1.4 | 1.4 | 2.8 |
| King Cove | 4.2 | 0.0 | 4.2 | 4.3 | 0.0 | 4.3 | 4.3 | 0.0 | 4.3 | 3.0 | 0.0 | 3.0 | 0.0 | 1.5 | 1.5 |
| Perryville | 2.3 | 0.0 | 2.3 | 1.1 | 0.0 | 1.1 | 4.5 | 0.0 | 4.5 | 1.1 | 0.0 | 1.1 | 2.5 | 1.3 | 3.8 |
| Sand Point | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 | 5.0 | 0.0 | 5.0 | 4.7 | 0.0 | 4.7 | 0.0 | 0.0 | 0.0 |
| Aleutian Island | ls | | | | | | | | | _ | | | | | |
| Adak | | | | | | | | | | | | | | | |
| Akutan | 6.4 | 0.0 | 6.4 | 6.4 | 0.0 | 6.4 | 4.1 | 1.4 | 5.4 | 15.0 | 2.7 | 17.7 | 2.9 | 0.0 | 2.9 |
| Atka | 12.2 | 0.0 | 12.2 | 16.8 | 0.0 | 16.8 | 16.8 | 0.0 | 16.8 | 33.3 | 11.7 | 45.0 | 73.5 | 12.0 | 85.5 |
| Nikolski | 3.0 | 0.0 | 3.0 | 1.1 | 0.0 | 1.1 | 1.1 | 0.0 | 1.1 | 6.7 | 0.0 | 6.7 | 1.0 | 0.0 | 1.0 |
| Unalaska | 29.1 | 1.3 | 30.3 | 7.3 | 5.5 | 12.7 | 49.2 | 3.4 | 52.6 | 23.1 | 5.3 | 28.4 | 10.0 | 5.7 | 15.7 |
| Pribilof Islands | 5 | | | | | | | | | | | | | | |
| St. George | 19.6 | 8.1 | 27.7 | 11.8 | 8.5 | 20.3 | 11.8 | 8.5 | 20.3 | 7.0 | 7.0 | 14.0 | 6.0 | 1.0 | 7.0 |
| St. Paul* | 25.9 | 2.3 | 28.2 | 41.0 | 16.9 | 57.8 | 17.3 | 5.7 | 23.0 | 12.0 | 12.0 | 24.0 | 18.0 | 18.0 | 36.0 |
| South Bristol E | Bay | | | | | | | | | | | | | | |
| Egegik | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| King Salmon | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Levelock | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naknek | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pilot Point | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Port Heiden | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| South Naknek | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| North Bristol B | ay | | | | | | | | | | | | | | |
| Aleknagik | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Clark's Point | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dillingham | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manokotak | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Togiak | 3.6 | 0.0 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Twin Hills | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 24, continued.

| 14510 24, 001111 | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | |
|------------------|-----------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|
| | | and | | | and | | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take | Harvest | | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | Lost | Take | Harvest | | Take |
| Community | | 2003 | | | 2004 | | | 2005 | | | 2006 | | | 2007 | | | 2008 | |
| South Alaska F | Peninsula | 1 | | | | | | | | | | | | | | | | |
| Chignik Bay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chignik Lagoon | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Chignik Lake | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| False Pass | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 |
| Ivanof Bay | | | | | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| King Cove | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 1.7 | 3.2 | 0.0 | 3.2 | 11.8 | 1.1 | 12.9 | 1.3 | 0.0 | 1.3 | 1.3 | 0.0 | 1.3 |
| Perryville | 1.2 | 2.4 | 3.7 | 2.2 | 0.0 | 2.2 | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 2.6 |
| Sand Point | 1.3 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.6 | 0.0 | 5.6 | 8.4 | 0.0 | 8.4 | 3.3 | 0.0 | 3.3 |
| Aleutian Island | ls | | | | | | | | | | | | | | | | | |
| Adak | 1.0 | 0.0 | 1.0 | 2.0 | 1.0 | 3.0 | 4.0 | 0.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 4.0 |
| Akutan | 8.7 | 0.0 | 8.7 | 4.8 | 0.0 | 4.8 | 4.8 | 0.0 | 4.8 | 2.4 | 0.0 | 2.4 | 5.1 | 1.3 | 6.4 | 4.2 | 0.0 | 4.2 |
| Atka | 68.8 | 12.8 | 81.6 | 50.7 | 12.7 | 63.3 | 54.9 | 6.1 | 61.0 | 52.0 | 14.0 | 66.0 | 46.0 | 8.0 | 54.0 | 35.0 | 0.0 | 35.0 |
| Nikolski | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 | 2.0 | 0.0 | 2.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 |
| Unalaska | 10.0 | 5.7 | 15.7 | 11.4 | 11.4 | 22.9 | 12.0 | 4.5 | 16.5 | 9.0 | 5.4 | 14.4 | 9.0 | 5.4 | 14.4 | 2.6 | 2.6 | 5.1 |
| Pribilof Islands | 3 | | | | | | | | | | | | | | | | | |
| St. George | 9.3 | 4.7 | 14.0 | 9.3 | 4.7 | 14.0 | 9.3 | 4.7 | 14.0 | 9.3 | 4.7 | 14.0 | 9.3 | 4.7 | 14.0 | 9.3 | 4.7 | 14.0 |
| St. Paul* | 13.0 | 5.0 | 18.0 | 9.0 | 9.0 | 18.0 | 19.0 | 3.0 | 22.0 | 20.0 | 6.0 | 26.0 | 22.0 | 12.0 | 34.0 | 20.0 | 2.0 | 22.0 |
| South Bristol E | Вау | | | | | | | | | | | | | | | | | |
| Egegik | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| King Salmon | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Levelock | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Naknek | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pilot Point | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Port Heiden | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| South Naknek | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Table 24, continued.

| | Struck | | | Struck | | | Struck | | | Struck | | | Struck | | | Struck | | |
|-----------------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|
| | | and | | | and | | | and | | | and | | | and | | | and | |
| | Harvest | Lost | Take |
| Community | | 2003 | | | 2004 | | | 2005 | | | 2006 | | | 2007 | | | 2008 | |
| North Bristol E | Bay | | | | | | | | | | | | | | | | | |
| Aleknagik | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Clark's Point | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dillingham | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manokotak | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Togiak | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Twin Hills | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Note: Surveys not completed for study year 1999.

^{*} St. Paul's 2000–2008 data from Zavadil et al. (2006), Lestenkof and Zavadil (2006), Lestenkof et al. (2007, 2008), and Jones (2009).

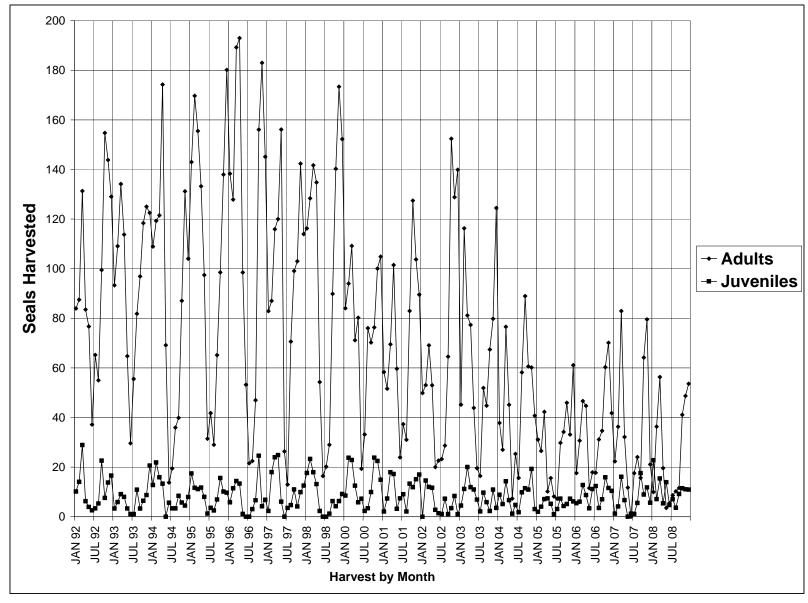


Figure 30.–Adult and juvenile harbor seal harvests by month, January 1992–December 2008, Southeast Alaska.

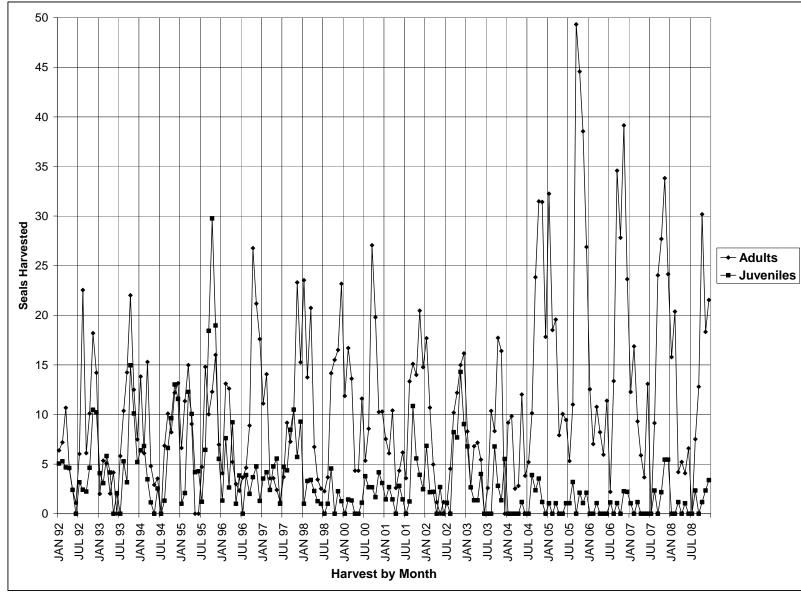


Figure 31.–Adult and juvenile harbor seal harvests by month, January 1992–December 2008, Kodiak Island region.

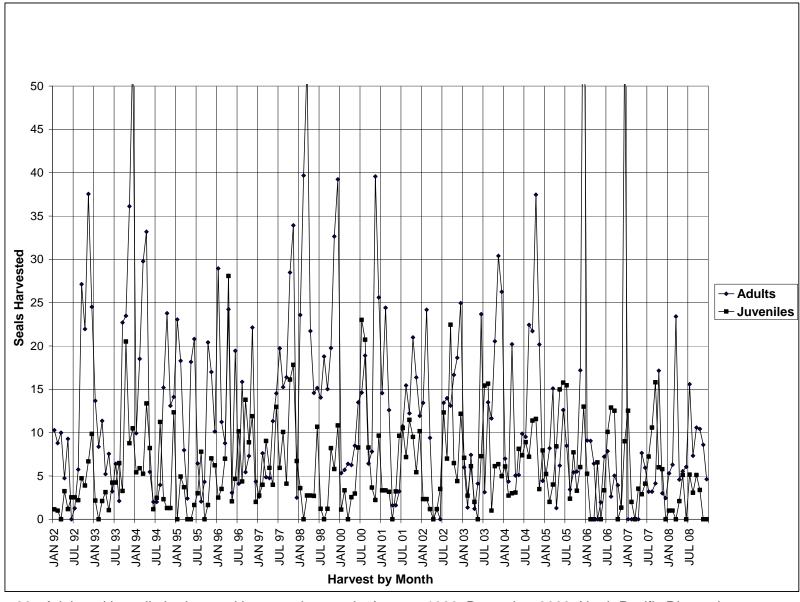


Figure 32.–Adult and juvenile harbor seal harvests by month, January 1992–December 2008, North Pacific Rim region.

Declines in sea lion takes appear to be associated with drops in hunter numbers (Figure 8, Table 16). Sea lion hunters (excluding St. Paul, because the number of hunters is not available for years after 1998) fell from a 5-year average of 131 hunters (1992–1996) to 57 hunters (2008). Successful sea lion hunters fell from a 5-year average of 84 hunters (1992–1996) to 50 hunters (2008). However, the success rate of those hunters (87.7%) was near an all time high (Table 16). As with seal hunting, there are probably a variety of local factors related to the year-to-year changes in the number of households hunting sea lions in particular communities, including seasonal hunting conditions, local food needs, and personal circumstances of hunters.

Figure 33 illustrates trends at Atka, one of the few communities in the state reporting increased sea lion harvests in recent years. As shown in Figure 33, the numbers of households hunting sea lions at Atka increased from 8 to 19 households from 1992 to 2003, and the numbers of households successfully harvesting sea lions increased from 6 to 18 households. Hunting households then fell to 10 households in 2008. Success rates for households show no clear trends: since 1992, annual mean harvests per household have ranged from 2.0 to 7.1 sea lions per successful hunter at Atka. The sea lion harvests of 35 animals in 2008 was lower than the recent 5-year average of 48 animals (2004–2008).

Hunting patterns at Old Harbor display somewhat different trends (Figure 34). At Old Harbor, there were increasing numbers of households hunting sea lions from 1992 to 1995 (from 21 households to 43 households), followed by a decrease to 12 households by 1997. In 2007, there were 6 successful sea lion hunters at Old Harbor, who harvested 7 animals. Harvest rates per successful hunter have ranged from 1.0 to 2.6 animals since 1992. No surveys were conducted in 2008.

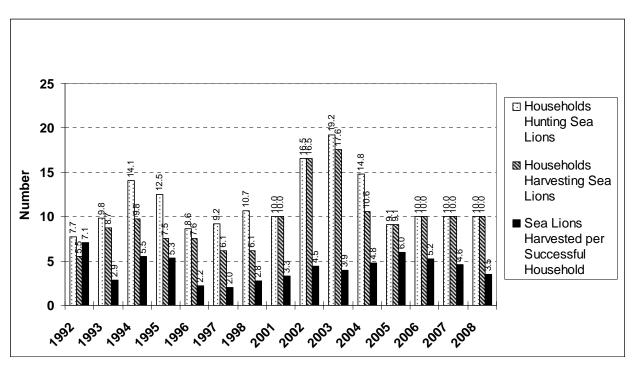


Figure 33.-Sea lion hunters and success rates, Atka, 1992-2008.

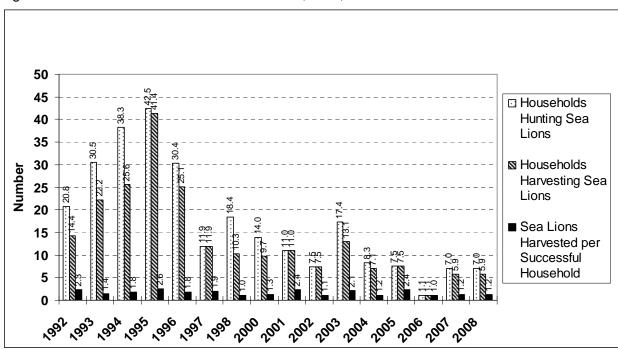


Figure 34.—Sea lion hunters and success rates, Old Harbor, 1992–2008.

At Akutan, the numbers of households successfully harvesting sea lions have ranged between 2 and 9 since 1992 (Figure 35). Mean harvests per successful hunter have ranged

from 0.6 to 5.5 sea lions. In 2008, 3 hunters harvested 4 animals, somewhat below the means since 2000 (3.8 hunters, 5.8 animals). At Nanwalek, the numbers of households successfully harvesting sea lions has ranged between 1 and 5 since 1992 (Figure 36). Mean harvests per successful hunter have ranged from 1.0 to 2.5 sea lions. The 2008 harvest was at the low end of that range.

Declines in the numbers of sea lion hunters occurred at a time when sea lions became increasingly harder to find in local hunting areas and consequently more difficult and expensive to hunt. As shown in Table 18, 67.3% of the Aleutian Island hunters and 55.3% of Kodiak Island hunters reported taking "more time and effort" in hunting sea lions in 2000 compared with 1995–1999. As sea lions became scarcer in a community's hunting area, a number of hunters in the community chose to stop hunting them. The hunters that continued to hunt appear to maintain annual harvest rates similar to past years, but the hunters have invested more time and effort.

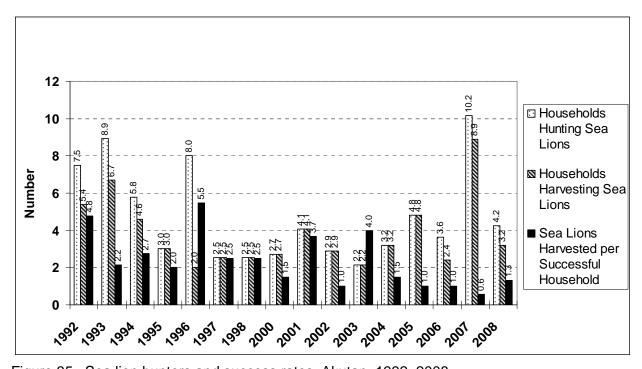


Figure 35.–Sea lion hunters and success rates, Akutan, 1992–2008.

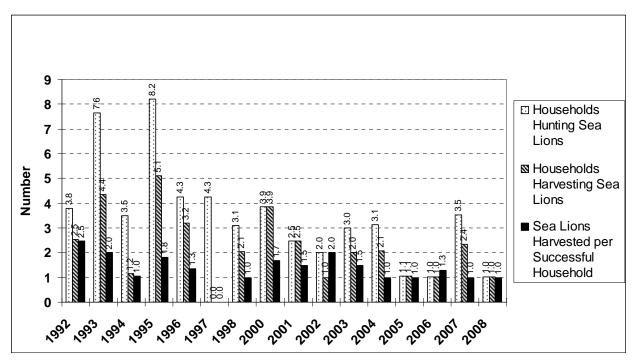


Figure 36.—Sea lion hunters and success rates, Nanwalek, 1992–2008.

In addition to these factors, it is quite likely that some sea lion hunters chose to reduce their hunting activity because of perceived problems with sea lion populations. Hunters commonly are astute observers of the condition and health of local sea lion stocks. Some portion of the decline in hunting effort during the early to mid 1990s probably reflected hunters choosing not to hunt in order to help conserve sea lion populations. The conservative effects of these factors on sea lion harvests appear to have run their course. After 1997, the numbers of sea lion hunters and sea lion takes leveled off. Although the most recent take of 146 animals in 2008 was the lowest yet recorded, trends indicate a stabilization in the takes of sea lions over the last several years for the state as a whole.

Table 25.-Harbor seal harvests by strata for communities with two-strata designs, 2008.

| | | Report | ed by Sar | nple | E | xpanded | |
|------------|--------------|---------|-----------|------|---------|----------|-------|
| | | | Struck | | | Struck | |
| Community | | Harvest | and Lost | Take | Harvest | and Lost | Take |
| Dillingham | High stratum | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | Low stratum | 6 | 1 | 7 | 6.5 | 1.1 | 7.6 |
| Manokotak | High stratum | 7 | 4 | 11 | 7.3 | 4.2 | 11.4 |
| | Low stratum | 13 | 3 | 16 | 18.5 | 4.8 | 23.3 |
| Naknek | High stratum | 6 | 3 | 9 | 7.9 | 3.9 | 11.8 |
| | Low stratum | 4 | 2 | 6 | 7.2 | 3.6 | 10.8 |
| Togiak | High stratum | 49 | 21 | 70 | 65.3 | 27.9 | 93.3 |
| | Low stratum | 125 | 26 | 151 | 148.3 | 30.8 | 179.1 |

Table 26.—Sea lion harvests by strata for communities with two-strata designs, 2008.

| | | Report | ed by Sar | nple | | Expanded | | | | |
|------------|--------------|---------|-----------|------|--------|------------|------|--|--|--|
| | | | Struck | | | Struck | | | | |
| Community | | Harvest | and Lost | Take | Harves | t and Lost | Take | | | |
| Dillingham | High stratum | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | | | |
| | Low stratum | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | | | |
| Manokotak | High stratum | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | | | |
| | Low stratum | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | | | |
| Naknek | High stratum | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | | | |
| | Low stratum | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | | | |
| Togiak | High stratum | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | | | |
| | Low stratum | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | | | |

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APPENDIX A

SURVEY INSTRUMENT USED IN HOUSEHOLD INTERVIEWS, 2008

95

HARBOR SEAL

2008 MARINE MAMMAL SURVEY

| Are any mei | mbers of you | r househol | d Alaska Na | tives? | Yes (_ |) No | | If No, tha | ınk you for | your cooper | ation. This | survey is rel | evant to Na | tive househ | olds. |
|--------------|---------------------------|--|-----------------------------|-----------|--------|-------|---------|------------|-------------|---------------------|-----------------|------------------------|---------------|-------------|---------------------------|
| If yes, h | ow many peo | ple lived in | your house | hold in 2 | 9008? | |) | | | CHECK IF | APPROPR | ATE No Co | ontact (| _) | |
| DID YOU OR I | MEMBERS OF S TO HARBOR | | | | | | | | Yes | No | | UR HOUSEH 「hank you | | | ONS IN 2008? lion form |
| During 2008 | , did you or | your hous | ehold: | | | | | | Yes | No | | | | | |
| | | | (meat, hide | | | | | | | |] | | | | |
| | | | s? .lf yes, g | | | | | | | | 2a. Ho w | many seal | hunters in yo | our househo | old? () |
| | | | harbor seal eals from of | | | | | .2 | | <u> </u> | 2h If vo | u hunted o u | iteida vour | ragion | |
| | | | r seals to ot | | | | | | | | | did you hunt | - | _ | |
| IF YES TO Q | | • | | | | | | | ESTION 44 | , THEN CO | 1 | • | | | |
| IF TES TO Q | | | r seals did y | | | | • | | | • | WIFLETES | EA LION SC | JKVET QUE | .5 11ON 13. | |
| | | • | , | | | | | | | .ı [Enter the nu | mbers by n | nonth.] | | | \downarrow |
| HARBOR SE | AL | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | UNKNOWN | TOTAL |
| тот | TAL | | | | | | | | | | | | | | |
| | arbor seals k | | • | | | | - | male, fem | nale, and h | ow many we | re pups, juv | eniles, or ac | dults? [Ente | r the numbe | ers by month |
| HARBOR SE | AL (Detail) | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | UNKNOWN | TOTAL |
| | MALE | | | | | | | | | | | | | | |
| ADULT | FEMALE | | | | | | | | | | | | | | |
| | UNKNOWN | | | | | | | | | | | | | | |
| İ | MALE | | | | | | | | | <u> </u> | | | | | <u> </u> |
| JUVENILE | FEMALE | | | | | | | | | | | | | | |
| | UNKNOWN | | | | | | | | | | | | | | |
| | MALE | | | | | | | | | | | | | | |
| PUP | FEMALE | | | | | | | | | | | | | | |
| | UNKNOWN | | | | | | | | | | | | | | |
| UNKNOWN | MALE | i | | | | | | | - | | | | | | |
| AGE | FEMALE | | | | | | | | | | | | | | |
| Desire 2000 | UNKNOWN | | | -11 | | | | -1-10 (5-1 | | | 1 | | | | |
| During 2008 | • | • | were they s | | | , , | | | | r in total box | .] | | | | $\overline{}$ |
| HARBOR SE | | | FEBRUARY | | | • | JUNE | JULY | • | SEPTEMBER | OCTOBED | NOVEMBED | DECEMBED | LINIKNOWN | ▼ TOTAL |
| STRUCK A | | JANOAKI | FEBRUARI | WIARCIT | AFRIL | IVIAT | JONE | JOLT | A000031 | JEFTEWIDER | OCTOBER | NOVEWIDER | DECEMBER | OINKINOVIN | TOTAL |
| Supplement | | : :: | | | | | | | | | | | | | |
| 11. During 2 | 008, did you | observe an | | | | | in your | area? In | crease | Decrea | ase | No Chang | e | idn't Obser | ve |
| Community: | • | | | • | | | List: | Hunter | Randon | n Interv | iewer: | | | Date: | |

96

SEA LION 2008 MARINE MAMMAL SURVEY

| DID YOU OR | MEMBER | S OF YOU | R HOUSEHO | DLD HUN | T OR US | E SEA | LIONS | IN 2008? | · · · · · · · · · · · · · · · · · · · | | | | | | |
|---|--|--|---|-----------------------------|------------|-------------------|-------------------|--------------------|---------------------------------------|---------------------------|-------------|--------------|--------------|-------------|-------------------|
| | (IF YES, I | PLEASE C | OMPLETE 1 | HE FOLI | OWING | QUES ⁻ | FIONS:) | | (IF NO, T | HAT COMPL | ETES THIS | S SURVEY. | THANK Y | OU.) | |
| During 2008 | Use se Hunt s Kill and Receiv | a lions (me ea lions? d retrieve : re sea lions | sehold: eat, hides, or If yes, go to to sea lions? from other hons to other h | 2a and 2b. iousehold | s or com | munitie | s?. | Yes | No | 2b. If you | hunted ou | ion hunters | _ | sehold? (|) |
| IF YES TO Q | 6. How m | any sea lio | ns did your h | ousehold | kill and r | etrieve' | ? [Ente | | nber in box | - | - | | | | _ |
| SEA LIONS | 7. In whic | n montns v January | - | | rrieved? | HOW M: MAY | any in (. JUNE | January, e JULY | | er the numbe SEPTEMBER | • | - | DECEMBER | LINIKNIONWI | ▼ TOTAL |
| TOT | AL | JANUART | FEBRUART | WARCH | AFRIL | IVIAT | JOINE | JULT | AUGUST | SEFTEWBER | OCTOBER | NOVEMBER | DECEINIBER | UNKNOVIN | TOTAL |
| | | illed and re | trieved in (.la | nuary et | c) how r | nanv w | ere mal | e female | and how i | many were pu | ıns iuvenil | es or adults | 2 (Enter the | numbers | hy monthl |
| SEA LIONS | | | FEBRUARY | | APRIL | MAY | JUNE | JULY | | SEPTEMBER | | | | | TOTAL |
| CLA LIGITO | MALE | | TEBROART | WARCH | ALINE | IVIAT | JONE | JOLI | 1 | SEI TEINIBER | OCTOBER | NOVEMBER | DECLIVIBLIX | ONKNOWN | TOTAL |
| ADULT | FEMALE | | | | | | | | | | | | | | |
| | JNKNOWN | | | | | | | | | | | | | | |
| | MALE | | | | | | | | | | | | | | |
| | FEMALE | | | | | | | | | | | | | | |
| | JNKNOWN | | | | | | | | • | | | | | | |
| | MALE | | | | | | | | | | | | | | |
| l bur | FEMALE | | | | | | | | | | | | | | |
| | JNKNOWN | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| During 2008 | , 9. How r | nany sea li | | | | | | - | nber in tot | al box.] | | | | | |
| SEA LIONS | | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | UNKNOWN | TOTAL |
| STRUCK A | ND LOST | | | | | | | | | | | | | | |
| 11. During 212. During 2 | 9. How many sea lions were struck and lost by your household? [Enter number in total box.] 10. In which months were they struck and lost? [Enter numbers by month.] | | | | | | | | | | | | | | |
| Community | | | (|) HH | ID: (| 1 | LIST: | Hunter l | Kandom | Interview | /er: | | ŗ | Date: | |

APPENDIX B

SUBSISTENCE TAKES OF HARBOR SEAL AND SEA LIONS BY REGION

| 1–2 | SOUTHEAST ALASKA |
|-------|------------------------|
| 3–4 | NORTH PACIFIC RIM |
| 5–6 | UPPER KENAI-COOK INLET |
| 7–8 | KODIAK ISLAND |
| 9–10 | SOUTH ALASKA PENINSULA |
| 11–12 | ALEUTIAN ISLANDS |
| 13–14 | PRIBILOF ISLANDS |
| 15–16 | SOUTH BRISTOL BAY |
| 17_18 | NORTH BRISTOL BAY |

Table 1. SEA LION AND HARBOR SEAL HARVESTS: SOUTHEAST ALASKA, 2008

| SAMPLING DESIGN: | | <u>Total</u> |
|------------------|------------------------------------|--------------|
| CHAIN REFERRAL | Total Referred Households | 373 |
| | Surveyed Households | 313 |
| | Sampling Fraction | 83.9% |
| | Sample Household Members | 907 |
| | Estimated Household Members | 1067.4 |
| 2000 U.S. | Census Estimated Native Population | 14070 |

HARVEST AND USE INFORMATION

| Percentage of Native H | ouseh | iolds: | Estimated Community Harvest | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | N/A | N/A | Total Number Harvested | 1.7 | 533.9 |
| Hunted | N/A | N/A | Total Number Struck and Lost | 8.0 | 60.1 |
| Harvested | N/A | N/A | Total Number Taken | 9.6 | 593.9 |
| Received | N/A | N/A | | | |
| Gave Away | N/A | N/A | Number Harvested Per Capita | 0.00 | 0.04 |

| SEA LION I | HARVE | ST B | Y MON | ITH | | | | | | | | | Unknown | |
|----------------|----------|----------|---------|---------|----------|----------|--------|-------|----------|-------|----------|--------|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAF | RVEST AN | D TAKE E | BY SAMP | LED HOU | ISEHOLD: | S (UNEXF | ANDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Struck & Lost | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 7 |
| Total Take | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 8 |
| ESTIMATED I | HARVES | T AND | TAKE B | У СОМІ | MUNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 1.1 | 8.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 1.1 | 9.6 |
| ESTIMATED S | SEASON | IALLY A | DJUST | ED HAR | VEST A | ND TAK | E BY C | OMMUN | IITY (EX | PANDE |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 1.7 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 0.0 | | 8.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 4.6 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 0.0 | | 9.6 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 47.6% | 0.0% | 0.0% | 0.0% | 13.1% | 13.1% | 13.1% | 13.1% | 0.0% | | 100% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 4.6 | 4.6 | 4.6 | 4.6 | 5.9 | 7.1 | 8.4 | 9.6 | 9.6 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 47.6% | 47.6% | 47.6% | 47.6% | 60.7% | 73.8% | 86.9% | 100.0% | 100.0% | | |

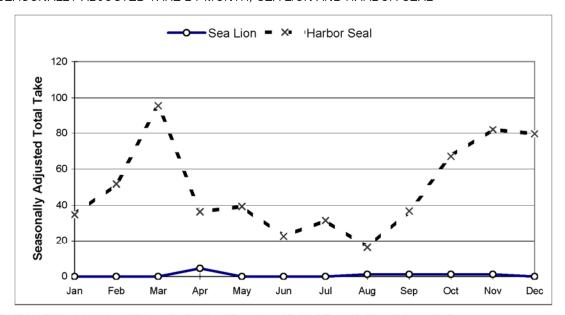
| HARBOR S | EAL F | IARVE | STBY | ′ MON | TH | | | | | | | | Unknown | |
|----------------|--------|---------|--------|--------|--------|--------|--------|--------|----------|--------|-------|--------|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | ST AND | TAKE B | YSAMF | LED HO | USEHC | LDS (U | NEXPAI | NDED) | | | | | |
| Harvest | 27 | 41 | 70 | 25 | 15 | 9 | 14 | 13 | 19 | 49 | 57 | 58 | 53 | 450 |
| Struck & Lost | 0 | 5 | 8 | 4 | 3 | 3 | 4 | 2 | 7 | 5 | 1 | 3 | 6 | 51 |
| Total Take | 27 | 46 | 78 | 29 | 18 | 12 | 18 | 15 | 26 | 54 | 58 | 61 | 59 | 501 |
| ESTIMATED H | HARVES | ST AND | TAKE E | Y COMI | MUNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 34.8 | 45.5 | 82.1 | 30.0 | 17.5 | 10.2 | 15.7 | 13.9 | 20.8 | 57.6 | 72.2 | 71.6 | 62.2 | 533.9 |
| Struck & Lost | 0.0 | 5.8 | 11.6 | 4.1 | 3.5 | 3.5 | 4.5 | 2.1 | 7.6 | 5.4 | 1.1 | 3.7 | 7.1 | 60.1 |
| Total Take | 34.8 | 51.3 | 93.7 | 34.1 | 21.0 | 13.7 | 20.2 | 15.9 | 28.4 | 63.0 | 73.3 | 75.3 | 69.2 | 593.9 |
| ESTIMATED S | SEASOI | VALLY A | TSULDA | ED HAR | VEST A | ND TAK | E BY C | OMMUN | IITY (EX | PANDED |)) | | | |
| Harvest | 34.8 | 45.9 | 83.9 | 32.3 | 33.9 | 17.2 | 25.1 | 14.3 | 27.9 | 61.7 | 81.0 | 76.0 | | 533.9 |
| Struck & Lost | 0.0 | 5.8 | 11.6 | 4.1 | 5.4 | 5.4 | 6.4 | 2.1 | 8.9 | 5.4 | 1.1 | 3.7 | | 60.1 |
| Total Take | 34.8 | 51.7 | 95.5 | 36.4 | 39.3 | 22.7 | 31.5 | 16.3 | 36.8 | 67.1 | 82.1 | 79.7 | | 593.9 |
| Total Take (%) | 5.9% | 8.7% | 16.1% | 6.1% | 6.6% | 3.8% | 5.3% | 2.7% | 6.2% | 11.3% | 13.8% | 13.4% | | 100% |
| Cum. Take | 34.8 | 86.5 | 182.1 | 218.4 | 257.8 | 280.4 | 311.9 | 328.3 | 365.1 | 432.2 | 514.3 | 593.9 | | |
| Cum. Take (%) | 5.9% | 14.6% | 30.7% | 36.8% | 43.4% | 47.2% | 52.5% | 55.3% | 61.5% | 72.8% | 86.6% | 100.0% | | |

SOURCE: SAIFWC Household Surveys, 2009.

Table 1. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTHEAST ALASKA, 2008

| | | Sea | Lion | | | Harboi | r Seal | |
|----------------------|--------|--------|--------|-----------|--------|--------|--------|-----------|
| | Report | ed by | Commu | nity Est. | Report | ed by | Commur | nity Est. |
| | Sam | ple | (Ехра | nded) | Sam | ple | (Expar | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | 0.0% | 0.0 | 0.0% | 159 | 35.3% | 177.2 | 33.2% |
| Adult Female | 0 | 0.0% | 0.0 | 0.0% | 63 | 14.0% | 69.2 | 13.0% |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 77 | 17.1% | 106.9 | 20.0% |
| Juvenile Male | 0 | 0.0% | 0.0 | 0.0% | 70 | 15.6% | 77.4 | 14.5% |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 33 | 7.3% | 36.7 | 6.9% |
| Juvenile Unknown Sex | 1 | 100.0% | 1.7 | 100.0% | 13 | 2.9% | 20.3 | 3.8% |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 9 | 2.0% | 9.2 | 1.7% |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 2 | 0.4% | 2.0 | 0.4% |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 1 | 0.2% | 1.0 | 0.2% |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 5 | 1.1% | 5.1 | 1.0% |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 1 | 0.2% | 1.0 | 0.2% |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | 17 | 3.8% | 27.8 | 5.2% |
| Total | 1 | 100.0% | 1.7 | 100.0% | 450 | 100.0% | 533.9 | 100% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | ŀ | HARBO | R SEA | \L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 5.2 | 1.3 | 6.4 | 1992 | 1476.8 | 189.5 | 1666.2 |
| 1993 | 0.0 | 1.1 | 1.1 | 1993 | 1425.0 | 190.0 | 1615.0 |
| 1994 | 3.5 | 1.1 | 4.6 | 1994 | 1348.5 | 151.4 | 1499.9 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 1719.1 | 170.9 | 1890.0 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 1641.6 | 216.3 | 1857.8 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 1343.4 | 224.1 | 1567.4 |
| 1998 | 3.3 | 4.4 | 7.6 | 1998 | 1414.0 | 202.4 | 1616.4 |
| 2000 | 2.3 | 0.0 | 2.3 | 2000 | 1209.7 | 151.4 | 1361.1 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 1019.9 | 155.9 | 1175.7 |
| 2002 | 7.0 | 0.0 | 7.0 | 2002 | 877.0 | 129.8 | 1006.8 |
| 2003 | 2.3 | 4.6 | 6.9 | 2003 | 945.1 | 123.7 | 1068.8 |
| 2004 | 4.6 | 7.2 | 11.8 | 2004 | 743.0 | 102.3 | 845.3 |
| 2005 | 0.0 | 19.0 | 19.0 | 2005 | 545.5 | 88.7 | 634.2 |
| 2006 | 2.5 | 10.1 | 12.6 | 2006 | 592.7 | 114.8 | 707.6 |
| 2007 | 0.0 | 6.1 | 6.1 | 2007 | 585.7 | 68.2 | 653.8 |
| 2008 | 1.7 | 8.0 | 9.6 | 2008 | 533.9 | 60.1 | 593.9 |

Table 2. SEA LION AND HARBOR SEAL HARVESTS: NORTH PACIFIC RIM, 2008

| SAMPLING DES | IGN: | <u>Active</u> | <u>Other</u> | <u>Total</u> | |
|---------------|---------------------------------|---------------|--------------|--------------|--|
| MIXED | Total Household Universe | 25 | 128 | 153 | |
| | Surveyed Households | 14 | 105 | 119 | |
| | Sampling Fraction | 56.0% | 82.0% | 77.8% | |
| | Sample Household Members | 33 | 333 | 366 | |
| | Estimated Household Members | 72.2 | 389.9 | 462.1 | |
| 2000 U.S. Cen | sus Estimated Native Population | | | 2094 | |

| Percentage of Native Ho | ouseh | olds: | Estimated Community Harvest | | |
|-------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | N/A | N/A | Total Number Harvested | 20.3 | 243.7 |
| Hunted | N/A | N/A | Total Number Struck and Lost | 4.3 | 33.1 |
| Harvested | N/A | N/A | Total Number Taken | 24.6 | 276.7 |
| Received | N/A | N/A | | | |
| Gave Away | N/A | N/A | Number Harvested Per Capita | 0.01 | 0.12 |

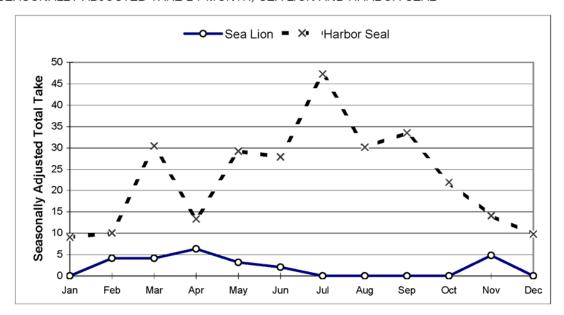
| SEA LION | HARV | EST B | Y MON | IТН | | | | | | | | l | Jnknown | |
|----------------|---------|---------|---------|---------|--------|----------|--------|-------|----------|-------|--------|--------|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAF | RVEST A | ND TAKE | BY SAMP | LED HOU | SEHOLD | S (UNEXF | ANDED) | | | | | | | |
| Harvest | 0 | 2 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 7 | 18 |
| Struck & Lost | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 |
| Total Take | 0 | 2 | 2 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 4 | 0 | 7 | 22 |
| ESTIMATED I | HARVE | ST AND | TAKE E | Y COM | MUNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 0.0 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 0.0 | 7.7 | 20.3 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 4.3 |
| Total Take | 0.0 | 2.2 | 2.2 | 4.4 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8 | 0.0 | 7.7 | 24.6 |
| ESTIMATED S | SEASO | NALLY A | ADJUST | ED HAR | VEST A | ND TAK | E BY C | OMMUN | IITY (EX | PANDE | D) | | | |
| Harvest | 0.0 | 4.1 | 4.1 | 4.1 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 0.0 | | 20.3 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | | 4.3 |
| Total Take | 0.0 | 4.1 | 4.1 | 6.3 | 3.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8 | 0.0 | | 24.6 |
| Total Take (%) | 0.0% | 16.8% | 16.8% | 25.7% | 12.9% | 8.4% | 0.0% | 0.0% | 0.0% | 0.0% | 19.5% | 0.0% | | 100% |
| Cum. Take | 0.0 | 4.1 | 8.3 | 14.6 | 17.7 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 24.6 | 24.6 | | |
| Cum. Take (%) | 0.0% | 16.8% | 33.5% | 59.3% | 72.1% | 80.5% | 80.5% | 80.5% | 80.5% | 80.5% | 100.0% | 100.0% | | |

| HARBOR S | SEAL H | ARVE | STBY | ′ MON | TH | | | | | | | Į | Jnknown | |
|----------------|--------|---------|--------|--------|--------|--------|--------|--------|---------|-------|------------|--------|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND | TAKE B | YSAMF | LED HO | USEHC | LDS (U | NEXPAI | (DED | | | | | |
| Harvest | 8 | 9 | 18 | 11 | 20 | 17 | 24 | 22 | 23 | 19 | 12 | 8 | 10 | 201 |
| Struck & Lost | 0 | 0 | 1 | 0 | 3 | 4 | 4 | 5 | 5 | 0 | 0 | 0 | 8 | 30 |
| Total Take | 8 | 9 | 19 | 11 | 23 | 21 | 28 | 27 | 28 | 19 | 12 | 8 | 18 | 231 |
| ESTIMATED I | HARVES | T AND | TAKE B | Y COMI | MUNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 8.5 | 9.5 | 28.7 | 12.1 | 23.7 | 19.3 | 37.3 | 24.2 | 26.8 | 20.4 | 13.0 | 9.0 | 11.0 | 243.7 |
| Struck & Lost | 0.0 | 0.0 | 1.0 | 0.0 | 3.2 | 4.4 | 4.4 | 5.1 | 5.0 | 0.0 | 0.0 | 0.0 | 9.9 | 33.1 |
| Total Take | 8.5 | 9.5 | 29.7 | 12.1 | 27.0 | 23.7 | 41.7 | 29.3 | 31.9 | 20.4 | 13.0 | 9.0 | 20.9 | 276.7 |
| ESTIMATED S | SEASON | IALLY A | ADJUST | ED HAR | VEST A | ND TAK | E BY C | NUMMC | ITY (EX | PANDE | D) | | | |
| Harvest | 9.0 | 10.0 | 29.5 | 12.8 | 24.7 | 20.8 | 38.8 | 25.1 | 27.6 | 21.5 | 14.1 | 9.8 | | 243.7 |
| Struck & Lost | 0.0 | 0.0 | 1.0 | 0.5 | 4.6 | 7.1 | 8.5 | 5.1 | 6.0 | 0.5 | 0.0 | 0.0 | | 33.1 |
| Total Take | 9.0 | 10.0 | 30.5 | 13.3 | 29.2 | 27.9 | 47.3 | 30.2 | 33.5 | 21.9 | 14.1 | 9.8 | | 276.7 |
| Total Take (%) | 3.3% | 3.6% | 11.0% | 4.8% | 10.6% | 10.1% | 17.1% | 10.9% | 12.1% | 7.9% | 5.1% | 3.5% | | 100% |
| Cum. Take | 9.0 | 19.1 | 49.5 | 62.8 | 92.1 | 120.0 | 167.3 | 197.4 | 231.0 | 252.9 | 267.0 | 276.7 | | |
| Cum. Take (%) | 3.3% | 6.9% | 17.9% | 22.7% | 33.3% | 43.4% | 60.4% | 71.3% | 83.5% | 91.4% | 96.5% | 100.0% | | |

Table 2. (cont.) SEA LION AND HARBOR SEAL HARVESTS: NORTH PACIFIC RIM, 2008

| | | S | ea Lion | | | На | rbor Seal | |
|----------------------|--------|--------|---------|-----------|--------|--------|-----------|-----------|
| | Report | ed by | Commu | nity Est. | Report | ted by | Commur | nity Est. |
| | San | nple | (Expa | nded) | San | nple | (Expar | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 1 | 5.6% | 1.1 | 5.4% | 41 | 20.4% | 65.7 | 26.9% |
| Adult Female | 3 | 16.7% | 3.5 | 17.2% | 21 | 10.4% | 22.5 | 9.2% |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 19 | 9.5% | 20.2 | 8.3% |
| Juvenile Male | 1 | 5.6% | 1.4 | 6.8% | 6 | 3.0% | 7.2 | 2.9% |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 3 | 1.5% | 3.1 | 1.3% |
| Juvenile Unknown Sex | 6 | 33.3% | 6.6 | 32.6% | 15 | 7.5% | 15.6 | 6.4% |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 13 | 6.5% | 14.3 | 5.9% |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 6 | 3.0% | 6.6 | 2.7% |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 23 | 11.4% | 24.7 | 10.1% |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 7 | 38.9% | 7.7 | 38.0% | 54 | 26.9% | 63.8 | 26.2% |
| Total | 18 | 100.0% | 20.3 | 100.0% | 201 | 100.0% | 243.7 | 100% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 25.1 | 6.5 | 31.5 | 1992 | 377.6 | 33.4 | 411.0 |
| 1993 | 26.2 | 8.7 | 34.9 | 1993 | 412.3 | 38.5 | 450.8 |
| 1994 | 16.6 | 9.7 | 26.3 | 1994 | 411.2 | 56.8 | 468.0 |
| 1995 | 28.4 | 3.0 | 31.4 | 1995 | 252.1 | 11.7 | 263.9 |
| 1996 | 12.4 | 1.1 | 13.5 | 1996 | 289.0 | 22.1 | 311.1 |
| 1997 | 4.5 | 1.4 | 5.8 | 1997 | 295.0 | 12.8 | 307.7 |
| 1998 | 20.0 | 8.5 | 28.5 | 1998 | 393.5 | 41.4 | 434.9 |
| 2000 | 11.7 | 5.0 | 16.7 | 2000 | 289.9 | 29.8 | 319.7 |
| 2001 | 14.7 | 0.0 | 14.7 | 2001 | 279.9 | 20.1 | 300.0 |
| 2002 | 5.5 | 0.0 | 5.5 | 2002 | 251.9 | 35.2 | 287.1 |
| 2003 | 19.1 | 5.6 | 24.7 | 2003 | 348.8 | 25.3 | 374.1 |
| 2004 | 38.0 | 15.8 | 53.9 | 2004 | 322.7 | 43.2 | 365.9 |
| 2005 | 40.1 | 9.1 | 49.2 | 2005 | 347.4 | 47.8 | 395.2 |
| 2006 | 17.0 | 8.0 | 25.0 | 2006 | 411.1 | 29.7 | 440.8 |
| 2007 | 47.5 | 10.3 | 57.8 | 2007 | 238.0 | 30.5 | 268.4 |
| 2008 | 20.3 | 4.3 | 24.6 | 2008 | 243.7 | 33.1 | 276.7 |

Table 3. SEA LION AND HARBOR SEAL HARVESTS: UPPER KENAI-COOK INLET, 2008

| SAMPLING DESIGN: | | <u>Total</u> | |
|------------------|---------------------------------------|--------------|--|
| CHAIN REFERRAL | Total Referred Households | 56 | |
| | Surveyed Households | 30 | |
| | Sampling Fraction | 53.6% | |
| | Sample Household Members | 118 | |
| | Estimated Household Members | 214.2 | |
| 2000 U. | S. Census Estimated Native Population | 29,486 | |

| Percentage of Native Ho | ouseh | olds: | Estimated Community Harvest | | |
|-------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | N/A | N/A | Total Number Harvested | 0.0 | 33.1 |
| Hunted | N/A | N/A | Total Number Struck and Lost | 0.0 | 3.5 |
| Harvested | N/A | N/A | Total Number Taken | 0.0 | 36.7 |
| Received | N/A | N/A | | | |
| Gave Away | N/A | N/A | Number Harvested Per Capita | 0.00 | 0.00 |

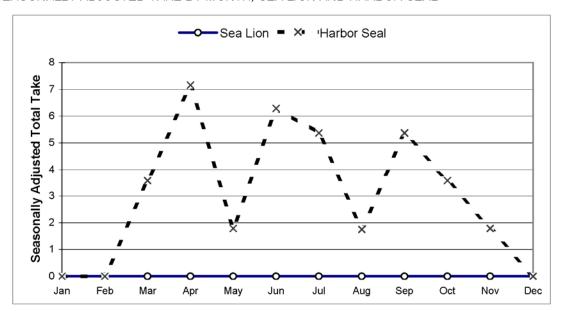
| SEA LION F | SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|-----------------------------------|----------|----------|---------|---------|---------|-------|-------|---------|--------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST ANI |) TAKE B | Y SAMPLI | ED HOUS | SEHOLDS | (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES | T AND 1 | TAKE BY | COMM | UNITY (| (EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | DJUSTE | D HAR | /EST AN | ID TAKE | BY CC | MMUNI | TY (EXP | ANDED) |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR S | SEAL H | ARVE | STBY | MON' | TH | | | | | | | l | Jnknown | |
|----------------|--------|---------|--------|--------|--------|--------|--------|--------|----------|--------|----------|--------|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | ARVES | T AND T | TAKE B | YSAMP | LED HO | DUSEHO | LDS (U | NEXPAI | NDED) | | | | | |
| Harvest | 0 | 0 | 2 | 4 | 1 | 4 | 3 | 0 | 2 | 2 | 1 | 0 | 0 | 19 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| Total Take | 0 | 0 | 2 | 4 | 1 | 4 | 3 | 1 | 3 | 2 | 1 | 0 | 0 | 21 |
| ESTIMATED H | HARVES | T AND | TAKE B | Y COMI | MUNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 3.6 | 7.2 | 1.8 | 6.3 | 5.4 | 0.0 | 3.6 | 3.6 | 1.8 | 0.0 | 0.0 | 33.1 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 |
| Total Take | 0.0 | 0.0 | 3.6 | 7.2 | 1.8 | 6.3 | 5.4 | 1.8 | 5.4 | 3.6 | 1.8 | 0.0 | 0.0 | 36.7 |
| ESTIMATED S | SEASON | ALLY A | DJUST | ED HAR | VEST A | ND TAK | E BY C | NUMMC | IITY (EX | PANDEI |) | | | |
| Harvest | 0.0 | 0.0 | 3.6 | 7.2 | 1.8 | 6.3 | 5.4 | 0.0 | 3.6 | 3.6 | 1.8 | 0.0 | | 33.1 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 | | 3.5 |
| Total Take | 0.0 | 0.0 | 3.6 | 7.2 | 1.8 | 6.3 | 5.4 | 1.8 | 5.4 | 3.6 | 1.8 | 0.0 | | 36.7 |
| Total Take (%) | 0.0% | 0.0% | 9.8% | 19.5% | 4.9% | 17.2% | 14.6% | 4.8% | 14.6% | 9.8% | 4.9% | 0.0% | | 100% |
| Cum. Take | 0.0 | 0.0 | 3.6 | 10.7 | 12.5 | 18.8 | 24.2 | 25.9 | 31.3 | 34.9 | 36.7 | 36.7 | | |
| Cum. Take (%) | 0.0% | 0.0% | 9.8% | 29.3% | 34.2% | 51.3% | 65.9% | 70.7% | 85.4% | 95.1% | 100.0% | 100.0% | | |

Table 3. (cont.) SEA LION AND HARBOR SEAL HARVESTS: UPPER KENAI-COOK INLET, 2008

| | _, , | Sea | Lion | | | Har | bor Seal | |
|----------------------|---------|-------|--------|----------|---------|--------|----------|----------|
| | Reporte | ed by | Commun | ity Est. | Reporte | ed by | Commur | ity Est. |
| | Sam | ole | (Expan | ded) | Sam | ple | (Expar | ided) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 6 | 31.6% | 9.9 | 29.8% |
| Adult Female | 0 | | 0.0 | | 2 | 10.5% | 3.6 | 10.8% |
| Adult Unknown Sex | 0 | | 0.0 | | 3 | 15.8% | 5.4 | 16.2% |
| Juvenile Male | 0 | | 0.0 | | 6 | 31.6% | 10.7 | 32.4% |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 1 | 5.3% | 1.8 | 5.4% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 1 | 5.3% | 1.8 | 5.4% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 19 | 100.0% | 33.1 | 100% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | HARBO | R SEA | L |
|-------------|----------------|---------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 5.7 | 3.8 | 9.5 | 1992 | 51.6 | 0.0 | 51.6 |
| 1993 | 7.8 | 3.3 | 11.1 | 1993 | 49.2 | 5.6 | 54.8 |
| 1994 | 1.4 | 0.0 | 1.4 | 1994 | 16.2 | 0.0 | 16.2 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 3.7 | 0.0 | 3.7 |
| 1996 | 3.3 | 0.0 | 3.3 | 1996 | 64.3 | 8.8 | 73.1 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 101.7 | 8.8 | 110.5 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 79.2 | 13.5 | 92.7 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 79.2 | 13.5 | 92.7 |
| 2001 | 1.3 | 0.0 | 1.3 | 2001 | 91.2 | 2.7 | 93.9 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 75.2 | 8.0 | 83.2 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 90.8 | 15.0 | 105.8 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 56.6 | 13.4 | 69.9 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 37.6 | 13.3 | 50.9 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 37.6 | 13.3 | 50.9 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 27.0 | 4.0 | 31.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 33.1 | 3.5 | 36.7 |

Table 4. SEA LION AND HARBOR SEAL HARVESTS: KODIAK ISLAND, 2008

| SAMPLING DES | SIGN: | <u>Active</u> | <u>Other</u> | <u>Total</u> | |
|---------------|----------------------------------|---------------|--------------|--------------|--|
| MIXED | Total Household Universe | 98 | 140 | 238 | |
| | Surveyed Households | 68 | 127 | 195 | |
| | Sampling Fraction | 69.4% | 90.7% | 81.9% | |
| | Sample Household Members | 215 | 362 | 577 | |
| | Estimated Household Members | 314.1 | 398.1 | 712.2 | |
| 2000 U.S. Cer | nsus Estimated Native Population | | | 1584 | |

| Percentage of Native H | ouseh | olds: | Estimated Community Harvest | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | N/A | N/A | Total Number Harvested | 12.1 | 165.5 |
| Hunted | N/A | N/A | Total Number Struck and Lost | 6.7 | 26.5 |
| Harvested | N/A | N/A | Total Number Taken | 18.8 | 192.0 |
| Received | N/A | N/A | | | |
| Gave Away | N/A | N/A | Number Harvested Per Capita | 0.01 | 0.10 |

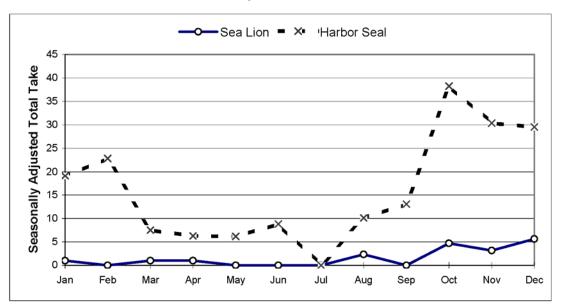
| SEA LION I | HARVE | EST B | Y MON | VТН | | | | | | | | l | Jnknown | |
|----------------|----------|---------|---------|---------|--------|----------|--------|-------|----------|-------|----------|--------|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAF | RVEST AN | ID TAKE | BY SAMP | LED HOU | SEHOLD | S (UNEXF | ANDED) | | | | | | | |
| Harvest | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 3 | 1 | 3 | 0 | 11 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 2 | 0 | 6 |
| Total Take | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 0 | 4 | 3 | 5 | 0 | 17 |
| ESTIMATED H | HARVES | T AND | TAKE B | Y COMI | MUNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 1.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 3.5 | 1.0 | 3.4 | 0.0 | 12.1 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 1.2 | 2.1 | 2.2 | 0.0 | 6.7 |
| Total Take | 1.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 4.7 | 3.1 | 5.6 | 0.0 | 18.8 |
| ESTIMATED S | SEASON | IALLY A | ADJUST | ED HAR | VEST A | ND TAK | E BY C | OMMUN | IITY (EX | PANDE |) | | | |
| Harvest | 1.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 3.5 | 1.0 | 3.4 | | 12.1 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 1.2 | 2.1 | 2.2 | | 6.7 |
| Total Take | 1.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 4.7 | 3.1 | 5.6 | | 18.8 |
| Total Take (%) | 5.3% | 0.0% | 5.3% | 5.3% | 0.0% | 0.0% | 0.0% | 12.5% | 0.0% | 25.0% | 16.7% | 29.9% | | 100% |
| Cum. Take | 1.0 | 1.0 | 2.0 | 3.0 | 3.0 | 3.0 | 3.0 | 5.3 | 5.3 | 10.0 | 13.2 | 18.8 | | |
| Cum. Take (%) | 5.3% | 5.3% | 10.7% | 16.0% | 16.0% | 16.0% | 16.0% | 28.5% | 28.5% | 53.4% | 70.1% | 100.0% | | |

| HARBOR S | SEAL H | HARVE | ST BY | ′ MON | TH | | | | | | | l | Unknown | |
|----------------|--------|---------|--------|--------|--------|--------|--------|--------|----------|--------|-------|--------|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | ST AND | TAKE B | Y SAMP | LED HO | DUSEHO | LDS (U | NEXPAI | NDED) | | | | | |
| Harvest | 13 | 13 | 4 | 6 | 5 | 6 | 0 | 6 | 9 | 23 | 20 | 19 | 1 | 125 |
| Struck & Lost | 2 | 2 | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 3 | 6 | 3 | 0 | 21 |
| Total Take | 15 | 15 | 6 | 6 | 6 | 8 | 0 | 6 | 9 | 26 | 26 | 22 | 1 | 146 |
| ESTIMATED I | HARVE | ST AND | TAKE B | Y COMI | MUNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 15.8 | 20.4 | 5.4 | 6.3 | 5.1 | 6.6 | 0.0 | 9.9 | 12.8 | 32.4 | 23.9 | 24.9 | 2.2 | 165.5 |
| Struck & Lost | 3.2 | 2.0 | 2.0 | 0.0 | 1.0 | 2.2 | 0.0 | 0.0 | 0.0 | 5.3 | 6.4 | 4.3 | 0.0 | 26.5 |
| Total Take | 18.9 | 22.4 | 7.4 | 6.3 | 6.2 | 8.8 | 0.0 | 9.9 | 12.8 | 37.7 | 30.2 | 29.3 | 2.2 | 192.0 |
| ESTIMATED S | SEASO | NALLY A | ADJUST | ED HAR | VEST A | ND TAK | E BY C | OMMUN | IITY (EX | PANDEI | D) | | | |
| Harvest | 15.9 | 20.8 | 5.4 | 6.3 | 5.1 | 6.6 | 0.0 | 10.1 | 13.0 | 33.0 | 24.0 | 25.2 | | 165.5 |
| Struck & Lost | 3.2 | 2.0 | 2.0 | 0.0 | 1.0 | 2.2 | 0.0 | 0.0 | 0.0 | 5.3 | 6.4 | 4.3 | | 26.5 |
| Total Take | 19.1 | 22.9 | 7.5 | 6.3 | 6.2 | 8.8 | 0.0 | 10.1 | 13.0 | 38.3 | 30.4 | 29.6 | | 192.0 |
| Total Take (%) | 9.9% | 11.9% | 3.9% | 3.3% | 3.2% | 4.6% | 0.0% | 5.3% | 6.8% | 19.9% | 15.8% | 15.4% | | 100% |
| Cum. Take | 19.1 | 42.0 | 49.5 | 55.7 | 61.9 | 70.7 | 70.7 | 80.8 | 93.8 | 132.1 | 162.5 | 192.0 | | |
| Cum. Take (%) | 9.9% | 21.9% | 25.8% | 29.0% | 32.2% | 36.8% | 36.8% | 42.1% | 48.8% | 68.8% | 84.6% | 100.0% | | |

Table 4. (cont.) SEA LION AND HARBOR SEAL HARVESTS: KODIAK ISLAND, 2008

| | | Sea | Lion | | | Harbo | Harbor Seal | | |
|----------------------|--------|--------|--------|-----------|--------|--------|-------------|-----------|--|
| | Report | ed by | Commu | nity Est. | Report | ed by | Commur | nity Est. | |
| | Sam | ple | (Expai | nded) | San | nple | (Expar | nded) | |
| | Number | % | Number | % | Number | % | Number | % | |
| Adult Male | 6 | 54.5% | 7.0 | 58.0% | 94 | 75.2% | 129.1 | 78.0% | |
| Adult Female | 0 | 0.0% | 0.0 | 0.0% | 11 | 8.8% | 13.6 | 8.2% | |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 6 | 4.8% | 6.1 | 3.7% | |
| Juvenile Male | 4 | 36.4% | 4.0 | 33.4% | 8 | 6.4% | 9.4 | 5.7% | |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 1 | 0.8% | 1.0 | 0.6% | |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 1 | 0.8% | 1.0 | 0.6% | |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 1 | 0.8% | 1.0 | 0.6% | |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | |
| Female Unknown Age | 1 | 9.1% | 1.0 | 8.6% | 1 | 0.8% | 1.0 | 0.6% | |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | 2 | 1.6% | 3.2 | 1.9% | |
| Total | 11 | 100.0% | 12.1 | 100.0% | 125 | 100.0% | 165.5 | 100% | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | H | HARBO | R SEA | L |
|-------------|----------------|---------|-------------|---|-------------|----------------|---------|-------------|
| | | Struck/ | Total | ' | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> |
| 1992 | 41.5 | 16.3 | 57.8 | | 1992 | 225.5 | 13.1 | 238.6 |
| 1993 | 41.5 | 16.9 | 58.4 | | 1993 | 171.7 | 20.1 | 191.8 |
| 1994 | 57.1 | 4.2 | 61.3 | | 1994 | 168.2 | 3.6 | 171.7 |
| 1995 | 127.9 | 7.7 | 135.7 | | 1995 | 223.0 | 9.2 | 232.2 |
| 1996 | 53.9 | 6.3 | 60.2 | | 1996 | 185.2 | 4.9 | 190.1 |
| 1997 | 33.3 | 4.9 | 38.2 | | 1997 | 189.8 | 18.3 | 208.2 |
| 1998 | 14.5 | 3.3 | 17.8 | | 1998 | 174.0 | 3.7 | 177.7 |
| 2000 | 18.5 | 0.0 | 18.5 | | 2000 | 185.9 | 7.3 | 193.2 |
| 2001 | 32.8 | 2.2 | 35.0 | | 2001 | 155.6 | 4.8 | 160.4 |
| 2002 | 16.1 | 0.0 | 16.1 | | 2002 | 152.1 | 10.2 | 162.3 |
| 2003 | 30.3 | 5.7 | 36.0 | | 2003 | 172.7 | 13.0 | 185.6 |
| 2004 | 13.5 | 3.5 | 17.0 | | 2004 | 172.2 | 15.7 | 188.0 |
| 2005 | 21.9 | 3.2 | 25.1 | | 2005 | 305.1 | 10.6 | 315.7 |
| 2006 | 7.0 | 0.0 | 7.0 | | 2006 | 210.3 | 10.2 | 220.5 |
| 2007 | 15.8 | 3.5 | 19.3 | | 2007 | 198.6 | 5.8 | 204.4 |
| 2008 | 12.1 | 6.7 | 18.8 | | 2008 | 165.5 | 26.5 | 192.0 |

Table 5. SEA LION AND HARBOR SEAL HARVESTS: SOUTH ALASKA PENINSULA, 2008

| SAMPLING DES | IGN: | <u>Active</u> | <u>Other</u> | <u>Total</u> | |
|---------------|---------------------------------|---------------|--------------|--------------|--|
| MIXED | Total Household Universe | 42 | 105 | 147 | |
| | Surveyed Households | 28 | 67 | 95 | |
| | Sampling Fraction | 66.7% | 63.8% | 64.6% | |
| | Sample Household Members | 92 | 206 | 298 | |
| | Estimated Household Members | 137.7 | 341.4 | 479.1 | |
| 2000 U.S. Cen | sus Estimated Native Population | | | 1228 | |

| Percentage of Native H | ouseh | olds: | Estimated Community Harvest | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | N/A | N/A | Total Number Harvested | 7.2 | 107.5 |
| Hunted | N/A | N/A | Total Number Struck and Lost | 1.4 | 17.3 |
| Harvested | N/A | N/A | Total Number Taken | 8.6 | 124.8 |
| Received | N/A | N/A | | | |
| Gave Away | N/A | N/A | Number Harvested Per Capita | 0.01 | 0.09 |

| SEA LION I | SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|-----------------------------------|-----------|----------|---------|---------------|--------|--------|-------|----------|-------|-------|--------|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAF | RVEST AN | ID TAKE E | BY SAMPL | ED HOUS | SEHOLDS | (UNEXF | ANDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 4 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 5 |
| ESTIMATED H | HARVES | T AND | TAKE B | Y COMI | JUNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 2.6 | 0.0 | 0.0 | 1.6 | 1.3 | 7.2 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 1.4 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 2.6 | 0.0 | 1.4 | 1.6 | 1.3 | 8.6 |
| ESTIMATED S | SEASON | IALLY A | DJUSTE | ED HAR | VEST A | ND TAK | E BY C | OMMUN | IITY (EX | PANDE | D) | | | |
| Harvest | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1.8 | 0.1 | 2.7 | 0.1 | 0.1 | 1.8 | | 7.2 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | | 1.4 |
| Total Take | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1.8 | 0.1 | 2.7 | 0.1 | 1.5 | 1.8 | | 8.6 |
| Total Take (%) | 1.2% | 1.2% | 1.2% | 1.2% | 1.2% | 1.2% | 20.5% | 1.2% | 31.8% | 1.2% | 17.3% | 20.5% | | 100% |
| Cum. Take | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 2.4 | 2.5 | 5.2 | 5.3 | 6.8 | 8.6 | | |
| Cum. Take (%) | 1.2% | 2.5% | 3.7% | 5.0% | 6.2% | 7.4% | 27.9% | 29.2% | 61.0% | 62.2% | 79.5% | 100.0% | | |

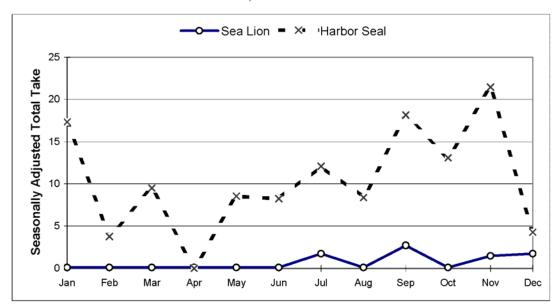
| HARBOR S | SEAL H | HARVE | STBY | ′ MON | TH | | | | | | | Į | Unknown | |
|----------------|--------|---------|--------|--------|--------|--------|--------|--------|----------|--------|-------|--------|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED I | HARVES | ST AND | TAKE B | Y SAMF | LED HC | DUSEHO | LDS (U | NEXPAI | NDED) | | | | | |
| Harvest | 6 | 2 | 4 | 0 | 4 | 4 | 7 | 6 | 11 | 5 | 8 | 1 | 2 | 60 |
| Struck & Lost | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 7 |
| Total Take | 8 | 2 | 4 | 0 | 4 | 5 | 7 | 6 | 12 | 6 | 9 | 2 | 2 | 67 |
| ESTIMATED | HARVE | ST AND | TAKE B | Y COM | MUNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 12.1 | 3.8 | 9.5 | 0.0 | 8.5 | 6.6 | 12.1 | 8.4 | 15.5 | 10.5 | 16.3 | 1.6 | 2.5 | 107.5 |
| Struck & Lost | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 2.6 | 2.6 | 2.6 | 2.6 | 0.0 | 17.3 |
| Total Take | 17.4 | 3.8 | 9.5 | 0.0 | 8.5 | 8.2 | 12.1 | 8.4 | 18.2 | 13.1 | 18.9 | 4.3 | 2.5 | 124.8 |
| ESTIMATED | SEASO | NALLY A | ADJUST | ED HAR | VEST A | ND TAK | E BY C | NUMMC | IITY (EX | PANDEI | D) | | | |
| Harvest | 12.1 | 3.8 | 9.5 | 0.0 | 8.5 | 6.6 | 12.1 | 8.4 | 15.5 | 10.5 | 18.8 | 1.6 | | 107.5 |
| Struck & Lost | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 2.6 | 2.6 | 2.6 | 2.6 | | 17.3 |
| Total Take | 17.4 | 3.8 | 9.5 | 0.0 | 8.5 | 8.2 | 12.1 | 8.4 | 18.2 | 13.1 | 21.5 | 4.3 | | 124.8 |
| Total Take (%) | 13.9% | 3.0% | 7.6% | 0.0% | 6.8% | 6.6% | 9.7% | 6.7% | 14.5% | 10.5% | 17.2% | 3.4% | | 100% |
| Cum. Take | 17.4 | 21.1 | 30.6 | 30.6 | 39.1 | 47.4 | 59.5 | 67.9 | 86.0 | 99.1 | 120.6 | 124.8 | | |
| Cum. Take (%) | 13.9% | 16.9% | 24.5% | 24.5% | 31.4% | 38.0% | 47.7% | 54.4% | 68.9% | 79.4% | 96.6% | 100.0% | | |

SOURCE: AMMC Household Surveys 2009; BBNA Household Surveys, 2009.

Table 5. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTH ALASKA PENINSULA, 2008

| | | Sea | Lion | | | Harbor Seal | | | | |
|----------------------|--------|--------|--------|-----------|--------|-------------|--------|----------|--|--|
| | Report | ed by | Commur | nity Est. | Report | ed by | Commur | ity Est. | | |
| | Sam | ıple | (Expar | nded) | Sam | nple | (Expar | nded) | | |
| | Number | % | Number | % | Number | % | Number | % | | |
| Adult Male | 2 | 50.0% | 3.9 | 54.1% | 30 | 50.0% | 51.6 | 48.0% | | |
| Adult Female | 2 | 50.0% | 3.3 | 45.9% | 6 | 10.0% | 13.4 | 12.4% | | |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 6 | 10.0% | 8.5 | 7.9% | | |
| Juvenile Male | 0 | 0.0% | 0.0 | 0.0% | 2 | 3.3% | 5.2 | 4.9% | | |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 1 | 1.7% | 1.4 | 1.3% | | |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 4 | 6.7% | 7.6 | 7.0% | | |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 1 | 1.7% | 1.6 | 1.5% | | |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 5 | 8.3% | 9.0 | 8.4% | | |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 1 | 1.7% | 2.6 | 2.4% | | |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | 4 | 6.7% | 6.6 | 6.1% | | |
| Total | 4 | 100.0% | 7.2 | 100.0% | 60 | 100.0% | 107.5 | 100% | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | F | HARBO | R SEA | L |
|-------------|----------------|---------|-------------|---|-------------|----------------|---------|-------------|
| | | Struck/ | Total | • | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> |
| 1992 | 2.4 | 0.0 | 2.4 | | 1992 | 115.5 | 13.1 | 128.6 |
| 1993 | 4.6 | 1.2 | 5.7 | | 1993 | 100.0 | 23.1 | 123.1 |
| 1994 | 4.6 | 1.1 | 5.7 | | 1994 | 98.6 | 11.1 | 109.8 |
| 1995 | 0.0 | 8.1 | 8.1 | | 1995 | 117.0 | 11.1 | 128.0 |
| 1996 | 3.7 | 1.3 | 5.0 | | 1996 | 86.3 | 5.0 | 91.3 |
| 1997 | 8.3 | 0.0 | 8.3 | | 1997 | 68.3 | 12.1 | 80.4 |
| 1998 | 9.2 | 0.0 | 9.2 | | 1998 | 79.9 | 7.5 | 87.4 |
| 2000 | 13.8 | 0.0 | 13.8 | | 2000 | 65.4 | 18.4 | 83.8 |
| 2001 | 10.2 | 1.4 | 11.6 | | 2001 | 68.7 | 16.3 | 85.1 |
| 2002 | 3.9 | 4.2 | 8.1 | | 2002 | 70.0 | 19.4 | 89.4 |
| 2003 | 2.5 | 2.4 | 5.0 | | 2003 | 91.1 | 13.5 | 104.5 |
| 2004 | 3.9 | 0.0 | 3.9 | | 2004 | 77.9 | 10.1 | 88.0 |
| 2005 | 4.2 | 0.0 | 4.2 | | 2005 | 66.8 | 8.5 | 75.3 |
| 2006 | 17.5 | 1.1 | 18.5 | | 2006 | 52.5 | 20.6 | 73.0 |
| 2007 | 9.7 | 0.0 | 9.7 | | 2007 | 88.0 | 18.4 | 106.4 |
| 2008 | 7.2 | 1.4 | 8.6 | | 2008 | 107.5 | 17.3 | 124.8 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys; BBNA Household Surveys, 2000-2009.

Table 6. SEA LION AND HARBOR SEAL HARVESTS: ALEUTIAN ISLANDS, 2008

| SAMPLING DES | IGN: | <u>Active</u> | <u>Other</u> | <u>Total</u> | |
|---------------|---------------------------------|---------------|--------------|--------------|--|
| MIXED | Total Household Universe | 20 | 67 | 87 | |
| | Surveyed Households | 9 | 50 | 59 | |
| | Sampling Fraction | 45.0% | 74.6% | 67.8% | |
| | Sample Household Members | 20 | 113 | 134 | |
| | Estimated Household Members | 51.9 | 161.9 | 213.9 | |
| 2000 U.S. Cen | sus Estimated Native Population | | | 861 | |

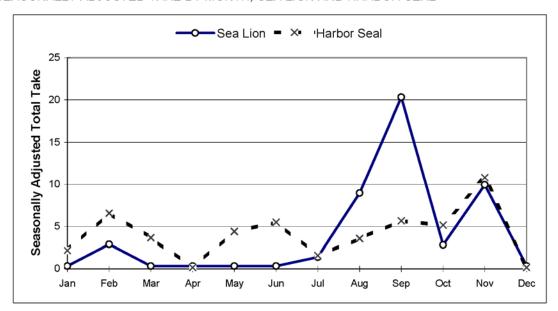
| Percentage of Native Ho | ouseh | olds: | Estimated Community Harvest | | |
|-------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | N/A | N/A | Total Number Harvested | 45.8 | 43.5 |
| Hunted | N/A | N/A | Total Number Struck and Lost | 2.6 | 6.0 |
| Harvested | N/A | N/A | Total Number Taken | 48.4 | 49.5 |
| Received | N/A | N/A | | | |
| Gave Away | N/A | N/A | Number Harvested Per Capita | 0.05 | 0.05 |

| SEA LION | HARVE | EST B | Y MON | 'TH | | | | | | | | l | Jnknown | |
|----------------|----------|-----------|----------|---------|---------|--------|---------|-------|----------|-------|------------|--------|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAF | RVEST AN | ID TAKE E | BY SAMPL | ED HOUS | SEHOLDS | (UNEXF | 'ANDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 8 | 1 | 5 | 0 | 4 | 23 |
| Struck & Lost | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Take | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 4 | 8 | 1 | 5 | 0 | 4 | 24 |
| ESTIMATED I | HARVES | T AND | TAKE B | Y COM | MUNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 8.6 | 20.0 | 2.5 | 9.6 | 0.0 | 4.0 | 45.8 |
| Struck & Lost | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 |
| Total Take | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 8.6 | 20.0 | 2.5 | 9.6 | 0.0 | 4.0 | 48.4 |
| ESTIMATED S | SEASON | IALLY A | DJUSTE | ED HAR | VEST A | ND TAK | E BY C | NUMMC | IITY (EX | PANDE | D) | | | |
| Harvest | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 1.4 | 9.0 | 20.3 | 2.8 | 10.0 | 0.3 | | 45.8 |
| Struck & Lost | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 2.6 |
| Total Take | 0.3 | 2.9 | 0.3 | 0.3 | 0.3 | 0.3 | 1.4 | 9.0 | 20.3 | 2.8 | 10.0 | 0.3 | | 48.4 |
| Total Take (%) | 0.7% | 6.0% | 0.7% | 0.7% | 0.7% | 0.7% | 2.9% | 18.5% | 42.0% | 5.9% | 20.6% | 0.7% | | 100% |
| Cum. Take | 0.3 | 3.2 | 3.6 | 3.9 | 4.2 | 4.6 | 6.0 | 14.9 | 35.3 | 38.1 | 48.1 | 48.4 | | |
| Cum. Take (%) | 0.7% | 6.7% | 7.4% | 8.1% | 8.8% | 9.4% | 12.3% | 30.9% | 72.9% | 78.7% | 99.3% | 100.0% | | |

| HARBOR S | EAL F | IARVE | ST BY | ′ MON | TH | | | | | | | l | Jnknown | |
|----------------|--------|---------|--------|--------|--------|--------|--------|--------|----------|--------|-------|--------|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND | TAKE B | Y SAMP | LED HO | DUSEHO | LDS (U | NEXPAI | NDED) | | | | | |
| Harvest | 2 | 3 | 1 | 0 | 3 | 3 | 1 | 3 | 2 | 2 | 6 | 0 | 6 | 32 |
| Struck & Lost | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 |
| Total Take | 2 | 3 | 2 | 0 | 3 | 3 | 1 | 3 | 4 | 2 | 6 | 0 | 6 | 35 |
| ESTIMATED H | HARVES | ST AND | TAKE B | Y COMI | MUNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 2.0 | 6.1 | 1.0 | 0.0 | 3.2 | 4.6 | 1.1 | 3.1 | 2.0 | 5.0 | 9.2 | 0.0 | 6.2 | 43.5 |
| Struck & Lost | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 6.0 |
| Total Take | 2.0 | 6.1 | 3.5 | 0.0 | 3.2 | 4.6 | 1.1 | 3.1 | 5.5 | 5.0 | 9.2 | 0.0 | 6.2 | 49.5 |
| ESTIMATED S | SEASO | NALLY A | ADJUST | ED HAR | VEST A | ND TAK | E BY C | NUMMC | IITY (EX | PANDEI | D) | | | |
| Harvest | 2.2 | 6.6 | 1.2 | 0.2 | 4.4 | 5.5 | 1.6 | 3.6 | 2.2 | 5.2 | 10.8 | 0.2 | | 43.5 |
| Struck & Lost | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 0.0 | 0.0 | 0.0 | | 6.0 |
| Total Take | 2.2 | 6.6 | 3.7 | 0.2 | 4.4 | 5.5 | 1.6 | 3.6 | 5.7 | 5.2 | 10.8 | 0.2 | | 49.5 |
| Total Take (%) | 4.4% | 13.3% | 7.4% | 0.3% | 8.9% | 11.1% | 3.2% | 7.2% | 11.5% | 10.4% | 21.9% | 0.3% | | 100% |
| Cum. Take | 2.2 | 8.7 | 12.4 | 12.6 | 17.0 | 22.5 | 24.1 | 27.6 | 33.3 | 38.5 | 49.3 | 49.5 | | |
| Cum. Take (%) | 4.4% | 17.7% | 25.1% | 25.4% | 34.3% | 45.5% | 48.6% | 55.9% | 67.3% | 77.8% | 99.7% | 100.0% | | |

| | | S | Sea Lion | | | Hai | bor Seal | |
|----------------------|--------|--------|----------|-----------|--------|--------|----------|-----------|
| | Report | ed by | Commur | nity Est. | Report | ed by | Commur | nity Est. |
| | Sam | ıple | (Expar | nded) | Sam | ple | (Expar | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 7 | 30.4% | 13.2 | 28.8% | 11 | 34.4% | 12.9 | 29.6% |
| Adult Female | 4 | 17.4% | 8.6 | 18.7% | 8 | 25.0% | 11.4 | 26.1% |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 3 | 9.4% | 3.0 | 6.9% |
| Juvenile Male | 4 | 17.4% | 10.0 | 21.8% | 2 | 6.3% | 5.0 | 11.5% |
| Juvenile Female | 3 | 13.0% | 7.5 | 16.4% | 2 | 6.3% | 5.0 | 11.5% |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 5 | 21.7% | 6.6 | 14.3% | 6 | 18.8% | 6.2 | 14.4% |
| Total | 23 | 100.0% | 45.8 | 100.0% | 32 | 100.0% | 43.5 | 100% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 104.3 | 30.9 | 135.2 | 1992 | 94.3 | 21.4 | 115.7 |
| 1993 | 99.0 | 24.8 | 123.8 | 1993 | 85.0 | 15.4 | 100.4 |
| 1994 | 101.8 | 20.5 | 122.3 | 1994 | 124.9 | 22.6 | 147.5 |
| 1995 | 85.0 | 11.1 | 96.1 | 1995 | 86.9 | 9.7 | 96.6 |
| 1996 | 46.5 | 11.3 | 57.9 | 1996 | 55.0 | 15.2 | 70.2 |
| 1997 | 50.7 | 1.3 | 51.9 | 1997 | 70.5 | 6.3 | 76.9 |
| 1998 | 31.6 | 5.5 | 37.0 | 1998 | 45.8 | 3.8 | 49.6 |
| 2000 | 71.2 | 4.8 | 76.0 | 2000 | 79.0 | 10.5 | 89.5 |
| 2001 | 78.1 | 19.6 | 97.7 | 2001 | 120.1 | 12.5 | 132.6 |
| 2002 | 87.4 | 17.7 | 105.1 | 2002 | 63.4 | 2.4 | 65.9 |
| 2003 | 88.5 | 18.5 | 107.0 | 2003 | 97.7 | 11.4 | 109.1 |
| 2004 | 70.9 | 25.1 | 96.0 | 2004 | 118.0 | 28.0 | 146.0 |
| 2005 | 77.7 | 10.6 | 88.3 | 2005 | 103.7 | 17.1 | 120.8 |
| 2006 | 63.4 | 19.4 | 82.8 | 2006 | 54.4 | 8.6 | 63.0 |
| 2007 | 61.3 | 14.7 | 76.0 | 2007 | 68.5 | 6.9 | 75.3 |
| 2008 | 45.8 | 2.6 | 48.4 | 2008 | 43.5 | 6.0 | 49.5 |

Table 7. SEA LION AND HARBOR SEAL HARVESTS: PRIBILOF ISLANDS, 2008

| SAMPLING DES | SIGN: | <u>Active</u> | <u>Other</u> | <u>Total</u> | |
|---------------|----------------------------------|---------------|--------------|--------------|--|
| MIXED | Total Household Universe | N/A | N/A | N/A | |
| | Surveyed Households | N/A | N/A | N/A | |
| | Sampling Fraction | N/A | N/A | N/A | |
| | Sample Household Members | N/A | N/A | N/A | |
| | Estimated Household Members | N/A | N/A | N/A | |
| 2000 U.S. Cer | nsus Estimated Native Population | | | 600 | |

| Percentage of Native He | ouseh | olds: | Estimated Community Harvest | | |
|-------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | N/A | N/A | Total Number Harvested | 29.3 | N/A |
| Hunted | N/A | N/A | Total Number Struck and Lost | 6.7 | N/A |
| Harvested | N/A | N/A | Total Number Taken | 36.0 | N/A |
| Received | N/A | N/A | | | |
| Gave Away | N/A | N/A | Number Harvested Per Capita | 0.05 | N/A |

| SEA LION | HARVE | EST B | Υ ΜΟΛ | ITH | | | | | | | | l | Jnknown | |
|----------------|----------|----------|----------|--------|---------|--------|---------|-------|----------|--------|-------|--------|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | RVEST AN | D TAKE (| BY SAMPL | ED HOU | SEHOLDS | (UNEXP | ANDED) | | | | | | | |
| Harvest | 2 | 0 | 3 | 5 | 4 | 0 | 0 | 0 | 1 | 5 | 2 | 2 | 0 | 24 |
| Struck & Lost | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 4 |
| Total Take | 2 | 0 | 4 | 5 | 4 | 0 | 0 | 0 | 1 | 6 | 4 | 2 | 0 | 28 |
| ESTIMATED I | HARVES | T AND | TAKE B | Y COMN | JUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 2.0 | 0.0 | 7.0 | 5.0 | 4.0 | 0.0 | 0.0 | 0.0 | 2.3 | 5.0 | 2.0 | 2.0 | 0.0 | 29.3 |
| Struck & Lost | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 2.0 | 0.0 | 0.0 | 6.7 |
| Total Take | 2.0 | 0.0 | 9.3 | 5.0 | 4.0 | 0.0 | 0.0 | 0.0 | 2.3 | 7.3 | 4.0 | 2.0 | 0.0 | 36.0 |
| ESTIMATED S | SEASON | IALLY A | DJUSTE | ED HAR | VEST A | ND TAK | E BY CC | ммии | ITY (EXF | PANDED |)) | | | |
| Harvest | 2.0 | 0.0 | 7.0 | 5.0 | 4.0 | 0.0 | 0.0 | 0.0 | 2.3 | 5.0 | 2.0 | 2.0 | | 29.3 |
| Struck & Lost | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 2.0 | 0.0 | | 6.7 |
| Total Take | 2.0 | 0.0 | 9.3 | 5.0 | 4.0 | 0.0 | 0.0 | 0.0 | 2.3 | 7.3 | 4.0 | 2.0 | | 36.0 |
| Total Take (%) | 5.6% | 0.0% | 25.9% | 13.9% | 11.1% | 0.0% | 0.0% | 0.0% | 6.5% | 20.4% | 11.1% | 5.6% | | 100% |
| Cum. Take | 2.0 | 2.0 | 11.3 | 16.3 | 20.3 | 20.3 | 20.3 | 20.3 | 22.7 | 30.0 | 34.0 | 36.0 | | |
| Cum. Take (%) | 5.6% | 5.6% | 31.5% | 45.4% | 56.5% | 56.5% | 56.5% | 56.5% | 63.0% | 83.3% | 94.4% | 100.0% | | |

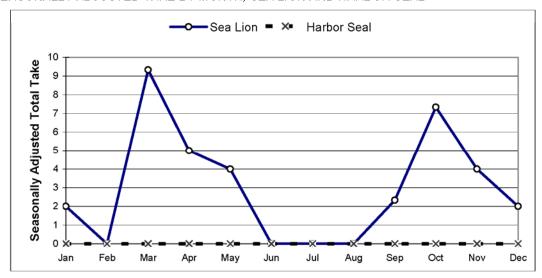
| HARBOR S | EAL H. | ARVE | ST BY | MONT | Ή | | | | | | | l | Jnknown | |
|----------------|--------|---------|--------|--------|---------|--------|---------|--------|--------|--------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | ARVEST | Γ AND Τ | AKE BY | SAMPL | ED HOL | JSEHOL | DS (UNI | EXPAND | DED) | | | | | |
| Harvest | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Struck & Lost | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Take | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| ESTIMATED H | IARVES | T AND T | AKE BY | сомм | UNITY (| EXPAND | DED) | | | | | | | |
| Harvest | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Struck & Lost | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Take | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| ESTIMATED S | EASON. | ALLY A | DJUSTE | D HARV | EST AN | D TAKE | BY CO | мминіт | Y (EXP | ANDED) | | | | |
| Harvest | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Struck & Lost | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Take | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | | | | | | | | | | | | | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, (Numbers based on 2003 Survey Estimates). Jones, 2009.

Table 7. (cont.) SEA LION AND HARBOR SEAL HARVESTS: PRIBILOF ISLANDS, 2008

| | | 5 | Sea Lion | | | Harboi | ⁻ Seal | |
|----------------------|--------|--------|----------|-----------|---------|--------|-------------------|---------|
| | Report | ed by | Commu | nity Est. | Reporte | ed by | Communi | ty Est. |
| | Sam | ple | (Expa | nded) | Sam | ple | (Expand | ded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 1 | 4.2% | 2.3 | 8.0% | N/A | | N/A | |
| Adult Female | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Juvenile Male | 23 | 95.8% | 27.0 | 92.0% | N/A | | N/A | |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Total | 24 | 100.0% | 29.3 | 100.0% | N/A | | N/A | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | H | IARBO | R SEA | L |
|-------------|----------------|-------------|-------------|---|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | _ | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 176.6 | 120.2 | 296.8 | | 1992 | 2.3 | 1.2 | 3.5 |
| 1993 | 165.4 | 80.0 | 245.4 | | 1993 | 2.3 | 1.2 | 3.5 |
| 1994 | 149.8 | 43.5 | 193.3 | | 1994 | 7.3 | 0.0 | 7.3 |
| 1995 | 57.6 | 10.3 | 67.9 | | 1995 | 2.5 | 0.0 | 2.5 |
| 1996 | 32.2 | 14.2 | 46.4 | | 1996 | 0.0 | 0.0 | 0.0 |
| 1997 | 45.5 | 10.4 | 55.9 | | 1997 | 0.0 | 0.0 | 0.0 |
| 1998 | 52.7 | 25.4 | 78.1 | | 1998 | 4.6 | 0.0 | 4.6 |
| 2000 | 29.1 | 14.2 | 43.3 | | 2000 | N/A | N/A | N/A |
| 2001 | 19.0 | 19.0 | 38.0 | | 2001 | N/A | N/A | N/A |
| 2002 | 24.0 | 19.0 | 43.0 | | 2002 | N/A | N/A | N/A |
| 2003 | 22.3 | 9.7 | 32.0 | | 2003 | N/A | N/A | N/A |
| 2004 | 22.3 | 9.7 | 32.0 | | 2004 | N/A | N/A | N/A |
| 2005 | 28.3 | 7.7 | 35.0 | | 2005 | N/A | N/A | N/A |
| 2006 | 29.3 | 10.7 | 39.9 | | 2006 | N/A | N/A | N/A |
| 2007 | 31.3 | 16.7 | 48.0 | | 2007 | N/A | N/A | N/A |
| 2008 | 29.3 | 6.7 | 36.0 | | 2008 | N/A | N/A | N/A |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998;

St George Traditional IRA Council and St. George Tanaq Corporation 2000-2008 (Numbers based on 2003 harvest estimates).

Table 8. SEA LION AND HARBOR SEAL HARVESTS: SOUTH BRISTOL BAY, 2008

| SAMPLING DES | IGN: | <u>Active</u> | <u>Other</u> | <u>Total</u> | |
|---------------|---------------------------------|---------------|--------------|--------------|--|
| MIXED | Total Household Universe | 21 | 188 | 209 | |
| | Surveyed Households | 16 | 120 | 136 | |
| | Sampling Fraction | 76.2% | 63.8% | 65.1% | |
| | Sample Household Members | 40 | 343 | 383 | |
| | Estimated Household Members | 52.5 | 534.2 | 586.7 | |
| 2000 U.S. Cen | sus Estimated Native Population | | | 951 | |

| Percentage of Native Ho | ouseh | olds: | Estimated Community Harvest | | |
|-------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | N/A | N/A | Total Number Harvested | 0.0 | 66.9 |
| Hunted | N/A | N/A | Total Number Struck and Lost | 0.0 | 38.2 |
| Harvested | N/A | N/A | Total Number Taken | 0.0 | 105.1 |
| Received | N/A | N/A | | | |
| Gave Away | N/A | N/A | Number Harvested Per Capita | 0.00 | 0.07 |

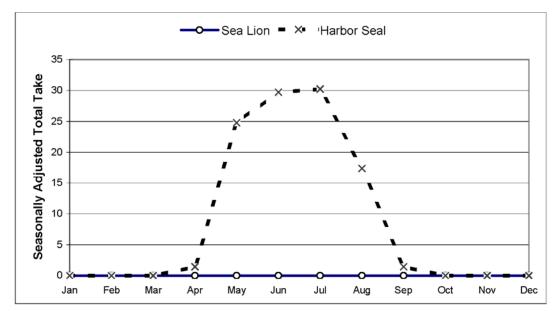
| SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|-----------------------------------|----------|---------|----------|---------|----------|---------|-------|-------|---------|-------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | /EST AND | TAKE B | Y SAMPLE | ED HOUS | SEHOLDS | (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES | T AND 1 | TAKE BY | COMM | IUNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | DJUSTE | D HAR\ | /EST AN | ID TAKE | BY CO | MMUNI | TY (EXP | ANDED |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR S | HARBOR SEAL HARVEST BY MONTH Unknow | | | | | | | | | | | | Jnknown | |
|----------------|-------------------------------------|---------|---------|-------|--------|--------|--------|-------|----------|--------|--------|--------|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | TAKE BY | 'SAMP | LED HO | DUSEHO | LDS (U | NEXPA | NDED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 11 | 16 | 17 | 8 | 1 | 0 | 0 | 0 | 0 | 53 |
| Struck & Lost | 0 | 0 | 0 | 1 | 10 | 10 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 30 |
| Total Take | 0 | 0 | 0 | 1 | 21 | 26 | 22 | 12 | 1 | 0 | 0 | 0 | 0 | 83 |
| ESTIMATED H | HARVES | T AND | TAKE B | COMI | MUNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 13.3 | 18.0 | 23.3 | 10.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 66.9 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 1.5 | 11.5 | 11.8 | 6.9 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 38.2 |
| Total Take | 0.0 | 0.0 | 0.0 | 1.5 | 24.8 | 29.7 | 30.2 | 17.4 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 105.1 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HAR | VEST A | ND TAK | E BY C | NUMMC | VITY (E) | (PANDE | D) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 13.3 | 18.0 | 23.3 | 10.9 | 1.5 | 0.0 | 0.0 | 0.0 | | 66.9 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 1.5 | 11.5 | 11.8 | 6.9 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | | 38.2 |
| Total Take | 0.0 | 0.0 | 0.0 | 1.5 | 24.8 | 29.7 | 30.2 | 17.4 | 1.5 | 0.0 | 0.0 | 0.0 | | 105.1 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 1.4% | 23.6% | 28.3% | 28.8% | 16.6% | 1.4% | 0.0% | 0.0% | 0.0% | | 100% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 1.5 | 26.2 | 56.0 | 86.2 | 103.6 | 105.1 | 105.1 | 105.1 | 105.1 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 1.4% | 25.0% | 53.3% | 82.0% | 98.6% | 100.0% | 100.0% | 100.0% | 100.0% | | |

SOURCE: BBNA Household Surveys, 2009.

| | | Se | ea Lion | | | Hai | rbor Seal | |
|----------------------|---------|-------|---------|---------|--------|--------|-----------|-----------|
| | Reporte | ed by | Communi | ty Est. | Report | ed by | Commur | nity Est. |
| | Samp | ole | (Expan | ded) | Sam | ple | (Expar | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 23 | 43.4% | 29.4 | 43.9% |
| Adult Female | 0 | | 0.0 | | 12 | 22.6% | 15.8 | 23.7% |
| Adult Unknown Sex | 0 | | 0.0 | | 13 | 24.5% | 14.2 | 21.3% |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | | 0.0 | | 1 | 1.9% | 1.3 | 2.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 1 | 1.9% | 1.3 | 2.0% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 1 | 1.9% | 2.6 | 3.9% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 2 | 3.8% | 2.2 | 3.3% |
| Total | | | 0.0 | | 53 | 100.0% | 66.9 | 100% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | H | HARBO | R SEA | .L |
|-------------|----------------|-------------|-------------|---|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | - | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | | 1992 | 99.0 | 68.6 | 167.6 |
| 1993 | 0.0 | 0.0 | 0.0 | | 1993 | 73.6 | 57.3 | 130.9 |
| 1994 | 0.0 | 0.0 | 0.0 | | 1994 | 121.6 | 59.3 | 180.9 |
| 1995 | 0.0 | 0.0 | 0.0 | | 1995 | 68.3 | 28.3 | 96.6 |
| 1996 | 0.0 | 0.0 | 0.0 | | 1996 | 63.8 | 44.2 | 108.0 |
| 1997 | 0.0 | 0.0 | 0.0 | | 1997 | 107.8 | 66.3 | 174.1 |
| 1998 | 0.0 | 0.0 | 0.0 | | 1998 | 62.2 | 34.3 | 96.5 |
| 2000 | 0.0 | 0.0 | 0.0 | | 2000 | 55.4 | 17.6 | 73.0 |
| 2001 | 0.0 | 0.0 | 0.0 | | 2001 | 52.9 | 19.8 | 72.7 |
| 2002 | 0.0 | 0.0 | 0.0 | | 2002 | 79.7 | 36.8 | 116.6 |
| 2003 | 0.0 | 0.0 | 0.0 | | 2003 | 35.6 | 15.3 | 50.9 |
| 2004 | 0.0 | 0.0 | 0.0 | | 2004 | 58.5 | 31.2 | 89.6 |
| 2005 | 0.0 | 0.0 | 0.0 | | 2005 | 40.3 | 30.8 | 71.1 |
| 2006 | 0.0 | 0.0 | 0.0 | | 2006 | 45.4 | 14.0 | 59.4 |
| 2007 | 0.0 | 0.0 | 0.0 | | 2007 | 52.3 | 22.0 | 74.3 |
| 2008 | 0.0 | 0.0 | 0.0 | | 2008 | 66.9 | 38.2 | 105.1 |

Table 9. SEA LION AND HARBOR SEAL HARVESTS: NORTH BRISTOL BAY, 2008

| SAMPLING DES | SIGN: | <u>Active</u> | <u>Other</u> | <u>Total</u> | |
|---------------|---------------------------------|---------------|--------------|--------------|--|
| MIXED | Total Household Universe | 95 | 430 | 525 | |
| | Surveyed Households | 81 | 349 | 430 | |
| | Sampling Fraction | 85.3% | 81.2% | 81.9% | |
| | Sample Household Members | 319 | 1245 | 1564 | |
| | Estimated Household Members | 375.4 | 1547.1 | 1922.5 | |
| 2000 U.S. Cer | sus Estimated Native Population | | | 2952 | |

| Percentage of Native Ho | ouser | olds: | Estimated Community Harvest | | | |
|-------------------------|-------------|-----------------|------------------------------|-------------|-------------|-------------|
| | Sea | Harbor Seal and | and Take (Expanded): | Sea | Harbor | Spotted |
| | <u>Lion</u> | Spotted Seal | | <u>Lion</u> | <u>Seal</u> | <u>Seal</u> |
| Used | N/A | N/A | Total Number Harvested | 0.0 | 65.6 | 213.3 |
| Hunted | N/A | N/A | Total Number Struck and Lost | 0.0 | 17.2 | 58.4 |
| Harvested | N/A | N/A | Total Number Taken | 0.0 | 82.8 | 271.8 |
| Received | N/A | N/A | | | | |
| Gave Away | N/A | N/A | Number Harvested Per Capita | 0.00 | 0.02 | 0.07 |

| SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|-----------------------------------|----------|---------|----------|---------|----------|---------|-------|-------|----------|--------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HARV | VEST AND | TAKE B | Y SAMPLE | ED HOUS | SEHOLDS | (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES | T AND 1 | TAKE BY | COMM | IUNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | DJUSTE | D HAR\ | /EST AN | ID TAKE | BY CO | MMUNI | TY (EXP. | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

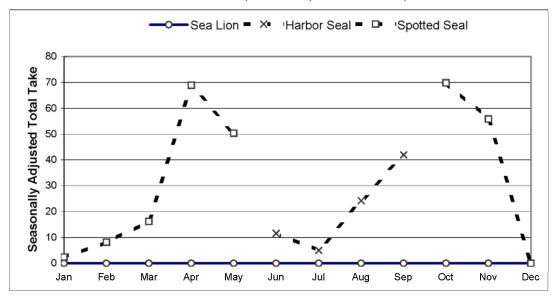
| HARBOR | SEAL A | ND SF | POTTE | D SEA | L HAF | RVEST | BYM | ONTH | | | | | | |
|----------------|--------|--------|-----------|--------|--------|--------|---------|--------|----------|--------|-----------|--------|---------|--------|
| l [| | | otted Sea | | | | Harboi | | | | otted Sea | | Unknown | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED | HARVES | T AND | TAKE B | YSAMP | LED HO | DUSEHO | DLDS (U | NEXPAI | NDED) | | | | | |
| Harvest | 2 | 5 | 12 | 37 | 30 | 5 | 3 | 17 | 27 | 45 | 39 | 0 | 0 | 222 |
| Struck & Lost | 0 | 2 | 1 | 15 | 10 | 3 | 1 | 2 | 7 | 12 | 7 | 0 | 0 | 63 |
| Total Take | 2 | 7 | 13 | 52 | 40 | 8 | 4 | 19 | 34 | 57 | 46 | 0 | 0 | 285 |
| ESTIMATED | HARVES | ST AND | TAKE B | Y COMI | MUNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 2.4 | 5.8 | 14.8 | 49.7 | 38.1 | 7.2 | 3.7 | 21.5 | 33.2 | 55.3 | 47.2 | 0.0 | 0.0 | 278.9 |
| Struck & Lost | 0.0 | 2.4 | 1.3 | 19.2 | 12.4 | 4.4 | 1.3 | 2.7 | 8.7 | 14.5 | 8.6 | 0.0 | 0.0 | 78.5 |
| Total Take | 2.4 | 8.2 | 16.2 | 68.9 | 50.4 | 11.6 | 5.0 | 24.2 | 41.9 | 69.8 | 55.9 | 0.0 | 0.0 | 357.5 |
| ESTIMATED | SEASON | ALLY A | DJUST | ED HAR | VEST A | ND TAK | E BY C | NUMMC | IITY (EX | PANDED | D) | | | |
| Harvest | 2.4 | 5.8 | 14.8 | 49.7 | 38.1 | 7.2 | 3.7 | 21.5 | 33.2 | 55.3 | 47.2 | 0.0 | | 278.9 |
| Struck & Lost | 0.0 | 2.4 | 1.3 | 19.2 | 12.4 | 4.4 | 1.3 | 2.7 | 8.7 | 14.5 | 8.6 | 0.0 | | 75.6 |
| Total Take | 2.4 | 8.2 | 16.2 | 68.9 | 50.4 | 11.6 | 5.0 | 24.2 | 41.9 | 69.8 | 55.9 | 0.0 | | 354.5 |
| Total Take (%) | 0.7% | 2.3% | 4.6% | 19.4% | 14.2% | 3.3% | 1.4% | 6.8% | 11.8% | 19.7% | 15.8% | 0.0% | | 100.0% |
| Cum. Take | 2.4 | 10.5 | 26.7 | 95.6 | 146.0 | 157.6 | 162.7 | 186.9 | 228.8 | 298.6 | 354.5 | 354.5 | | |
| Cum. Take (%) | 0.7% | 3.0% | 7.5% | 27.0% | 41.2% | 44.5% | 45.9% | 52.7% | 64.5% | 84.2% | 100.0% | 100.0% | | |

SOURCE: BBNA Household Surveys, 2009.

| | | Sea | Lion | | | Harbo | or Seal | | Spotted Seal | | | | |
|----------------------|---------------|-----------------|------------|----------|---------|----------|---------------|------------|---------------|----------|--------|-----------|--|
| | Reporte | d by | Commun | ity Est. | Reporte | ed by | Commu | nity Est. | Report | ed by | Commur | nity Est. | |
| | Sample | | (Expanded) | | Sam | Sample | | (Expanded) | | Sample | | nded) | |
| | <u>Number</u> | Number <u>%</u> | | <u>%</u> | Number | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | Number | <u>%</u> | |
| Adult Male | 0 | | 0.0 | | 10 | 19.2% | 11.5 | 17.6% | 51 | 30.0% | 63.6 | 29.8% | |
| Adult Female | 0 | | 0.0 | | 2 | 3.8% | 2.2 | 3.3% | 19 | 11.2% | 23.5 | 11.0% | |
| Adult Unknown Sex | 0 | | 0.0 | | 12 | 23.1% | 15.6 | 23.8% | 27 | 15.9% | 33.4 | 15.7% | |
| Juvenile Male | 0 | | 0.0 | | 4 | 7.7% | 5.3 | 8.0% | 10 | 5.9% | 11.8 | 5.5% | |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 3 | 1.8% | 3.7 | 1.7% | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 8 | 15.4% | 10.7 | 16.3% | 30 | 17.6% | 39.6 | 18.6% | |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 2 | 1.2% | 2.4 | 1.1% | |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 4 | 2.4% | 5.3 | 2.5% | |
| Male Unknown Age | 0 | | 0.0 | | 3 | 5.8% | 3.6 | 5.4% | 3 | 1.8% | 3.4 | 1.6% | |
| Female Unknown Age | 0 | 0 | | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | |
| Unknown Sex and Age | 0 | 0 | | | 13 | 25.0% | 16.8 | 25.6% | 21 | 12.4% | 26.5 | 12.4% | |
| Total | 0 | | 0.0 | | 52 | 100.0% | 65.6 | 100.0% | 170 | 100.0% | 213.3 | 100% | |

^{*} Harvest in unknown months is not included in the sample harvest, but is included in the community estimate column.

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION, HARBOR SEAL, AND SPOTTED SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | _ | F | IARBO | R SEA | L | S | POTTE | D SEA | L . |
|-------------|----------------|-------------|-------------|---|-------------|----------------|---------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 7.8 | 0.0 | 7.8 | | 1992 | 58.4 | 13.2 | 71.6 | 1992 | 364.1 | 72.5 | 436.6 |
| 1993 | 3.3 | 3.3 | 6.5 | | 1993 | 46.1 | 20.0 | 66.1 | 1993 | 215.1 | 49.1 | 264.1 |
| 1994 | 1.2 | 0.0 | 1.2 | | 1994 | 16.2 | 3.3 | 19.5 | 1994 | 226.5 | 42.9 | 269.5 |
| 1995 | 0.0 | 0.0 | 0.0 | | 1995 | 25.9 | 2.4 | 28.3 | 1995 | 163.7 | 33.5 | 197.2 |
| 1996 | 0.0 | 0.0 | 0.0 | | 1996 | 29.6 | 10.0 | 39.6 | 1996 | 202.1 | 25.0 | 227.1 |
| 1997 | 3.6 | 0.0 | 3.6 | | 1997 | 18.8 | 2.1 | 20.9 | 1997 | 133.6 | 16.6 | 150.2 |
| 1998 | 0.0 | 0.0 | 0.0 | | 1998 | 33.2 | 3.6 | 36.8 | 1998 | 145.9 | 25.4 | 171.3 |
| 2000 | 0.0 | 0.0 | 0.0 | | 2000 | 10.4 | 1.1 | 11.6 | 2000 | 217.0 | 40.4 | 257.5 |
| 2001 | 0.0 | 0.0 | 0.0 | | 2001 | 8.8 | 1.2 | 10.0 | 2001 | 105.9 | 20.8 | 126.6 |
| 2002 | 0.0 | 0.0 | 0.0 | | 2002 | 15.5 | 7.4 | 23.0 | 2002 | 184.5 | 44.6 | 229.1 |
| 2003 | 0.0 | 0.0 | 0.0 | | 2003 | 29.8 | 1.4 | 31.2 | 2003 | 52.3 | 10.0 | 62.3 |
| 2004 | 1.2 | 0.0 | 1.2 | | 2004 | 17.6 | 11.7 | 29.3 | 2004 | 123.8 | 46.5 | 170.4 |
| 2005 | 0.0 | 0.0 | 0.0 | | 2005 | 23.9 | 8.9 | 32.7 | 2005 | 170.5 | 30.7 | 201.2 |
| 2006 | 0.0 | 0.0 | 0.0 | | 2006 | 19.1 | 9.9 | 29.0 | 2006 | 139.8 | 30.1 | 169.8 |
| 2007 | 0.0 | 0.0 | 0.0 | | 2007 | 8.8 | 5.2 | 14.0 | 2007 | 137.2 | 16.3 | 153.5 |
| 2008 | 0.0 | 0.0 | 0.0 | | 2008 | 65.6 | 17.2 | 82.8 | 2008 | 213.3 | 58.4 | 271.8 |
| | | | | | | | | | | | | |

APPENDIX C

SUBSISTENCE TAKES OF HARBOR SEALS AND SEA LIONS BY COMMUNITY

| SOUTHEA 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 | AST ALASKA Angoon Craig Haines Hoonah Hydaburg Juneau Kake Ketchikan Klawock | SOUTH ALA 71–72 73–74 75–76 77–78 79–80 81–82 83–84 85–86 | SKA PENINSULA Chignik Bay Chignik Lagoon Chignik Lake False Pass Ivanof Bay King Cove Perryville Sand Point |
|--|--|---|---|
| 19–20 21–22 23–24 25–26 27–28 29–30 31–32 | Klukwan Pelican Petersburg Saxman Sitka Wrangell Yakutat | ALEUTIAN I 87–88 89–90 91–92 93–94 95–96 | SLANDS Adak Akutan Atka Nikolski Unalaska |
| 33–34 35–36 37–38 39–40 41–42 43–44 45–46 47–48 UPPER K 49–50 51–52 | ACIFIC RIM Chenega Bay Cordova Nanwalek Port Graham Seldovia Seward Tatitlek Valdez ENAI-COOK INLET Anchorage Homer | PRIBILOF IS 97–98 99–100 SOUTH BRIS 101–102 103–104 105–106 107–108 109–110 111–112 113–114 NORTH BRIS | St. George St. Paul STOL BAY Egegik King Salmon Levelock Naknek Pilot Point Port Heiden South Naknek |
| 53–54 55–56 KODIAK I 57–58 59–60 61–62 63–64 65–66 67–68 69–70 | Kenai Tyonek SLAND Akhiok Karluk Kodiak City Larsen Bay Old Harbor Ouzinkie Port Lions | 115–116 117–118 119–120 121–122 123–124 125–126 | Aleknagik Clark's Point Dillingham Manokotak Togiak Twin Hills |

Table 1. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Angoon, 2008

SAMPLING DESIGN:

CHAIN REFERRAL Total Referred Households 40
Surveyed Households 40
Sampling Fraction 100.0%
Sample Household Members 157
Estimated Household Members 157.0

2000 U.S. Census Estimated Native Population 494

| HARVEST AND USE IN | | | | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|
| Percentage of Sample H | lousei | holds: | Estimated Community Harvest | | |
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 0.0% | 100.0% | Total Number Harvested | 0.0 | 41.0 |
| Hunted | 0.0% | 55.0% | Total Number Struck and Lost | 0.0 | 5.0 |
| Harvested | 0.0% | 50.0% | Total Number Taken | 0.0 | 46.0 |
| Received | 0.0% | 100.0% | | | |
| Gave Away | 0.0% | 52.5% | Number Harvested Per Capita | 0.00 | 0.08 |

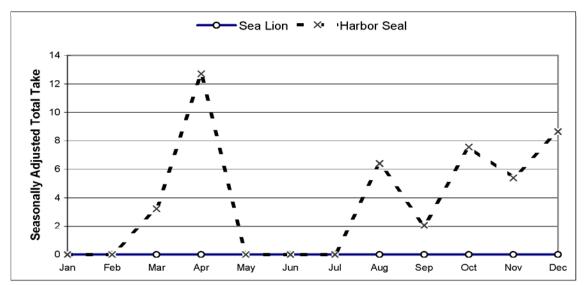
| SEA LION F | SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|-----------------------------------|---------|---------|---------|----------|---------|--------|---------|--------|-------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HARV | /EST AND | TAKE BY | SAMPLEI |) HOUSE | HOLDS (L | JNEXPAN | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | AND T | AKE BY | СОММ | JNITY (E | XPANDI | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | LLY AD | JUSTED | HARVI | EST AND | TAKE E | BY COM | IMUNITY | (EXPAN | IDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|--------------------------------------|--------|---------|--------|-------|---------|---------|---------|--------|---------|-------|-------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | AKE BY | SAMPL | .ED HOL | JSEHOL | DS (UNI | EXPAND | DED) | | | | | |
| Harvest | 0 | 0 | 3 | 9 | 0 | 0 | 0 | 5 | 1 | 7 | 5 | 8 | 3 | 41 |
| Struck & Lost | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 5 |
| Total Take | 0 | 0 | 3 | 12 | 0 | 0 | 0 | 6 | 2 | 7 | 5 | 8 | 3 | 46 |
| ESTIMATED I | HARVES | T AND T | AKE B | COMM | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 3.0 | 9.0 | 0.0 | 0.0 | 0.0 | 5.0 | 1.0 | 7.0 | 5.0 | 8.0 | 3.0 | 41.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Total Take | 0.0 | 0.0 | 3.0 | 12.0 | 0.0 | 0.0 | 0.0 | 6.0 | 2.0 | 7.0 | 5.0 | 8.0 | 3.0 | 46.0 |
| ESTIMATED S | SEASON | ALLY A | JUSTE | D HAR | EST AN | ID TAKE | BY CO | имиміт | Y (EXPA | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 3.2 | 9.7 | 0.0 | 0.0 | 0.0 | 5.4 | 1.1 | 7.6 | 5.4 | 8.6 | | 41.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | | 5.0 |
| Total Take | 0.0 | 0.0 | 3.2 | 12.7 | 0.0 | 0.0 | 0.0 | 6.4 | 2.1 | 7.6 | 5.4 | 8.6 | | 46.0 |
| Total Take (%) | 0.0% | 0.0% | 7.0% | 27.6% | 0.0% | 0.0% | 0.0% | 13.9% | 4.5% | 16.4% | 11.7% | 18.8% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 3.2 | 15.9 | 15.9 | 15.9 | 15.9 | 22.3 | 24.4 | 32.0 | 37.4 | 46.0 | | |
| Cum. Take (%) | 0.0% | 0.0% | 7.0% | 34.7% | 34.7% | 34.7% | 34.7% | 48.6% | 53.1% | 69.5% | 81.2% | 100.0% | | |

Table 1. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Angoon, 2008

| | | Se | a Lion | | Harbor Seal | | | | | |
|----------------------|---------|------|--------|----------|-------------|--------|---------|---------|--|--|
| | Reporte | d by | Commun | ity Est. | Reporte | ed by | Communi | ty Est. | | |
| | Samp | ole | (Expan | ded) | Samp | ole | (Expand | ded) | | |
| | Number | % | Number | % | Number | % | Number | % | | |
| Adult Male | 0 | 0 | | | 28 | 68.3% | 28.0 | 68.3% | | |
| Adult Female | 0 | | 0.0 | | 5 | 12.2% | 5.0 | 12.2% | | |
| Adult Unknown Sex | 0 | | 0.0 | | 3 | 7.3% | 3.0 | 7.3% | | |
| Juvenile Male | 0 | | 0.0 | | 4 | 9.8% | 4.0 | 9.8% | | |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Unknown Sex | 0 | | 0.0 | | 1 | 2.4% | 1.0 | 2.4% | | |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Total | 0 | 0 | | | 41 | 100.0% | 41.0 | 100.0% | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | HARBO | R SEA | L |
|-------------|----------------|---------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 125.1 | 28.9 | 154.0 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 56.6 | 9.9 | 66.5 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 66.9 | 21.1 | 88.0 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 80.9 | 9.7 | 90.6 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 71.0 | 2.0 | 73.0 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 51.0 | 7.1 | 58.1 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 53.0 | 2.0 | 55.0 |
| 2000 | 1.0 | 0.0 | 1.0 | 2000 | 64.3 | 6.1 | 70.4 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 85.0 | 5.2 | 90.2 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 72.7 | 2.2 | 74.9 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 54.9 | 0.0 | 54.9 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 47.4 | 3.2 | 50.5 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 57.5 | 6.2 | 63.7 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 46.0 | 8.0 | 54.0 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 42.6 | 0.0 | 42.6 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 41.0 | 5.0 | 46.0 |

Table 2. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Craig, 2008

| SAMPLING DESIGN: |
|------------------|
| CHAIN DEEEDDAL |

Gave Away 0.0%

Total Referred Households 21 CHAIN REFERRAL Surveyed Households 10 Sampling Fraction 47.6% Sample Household Members 24 **Estimated Household Members** 50.4

10.0%

2000 U.S. Census Estimated Native Population 432 HARVEST AND USE INFORMATION

Estimated Community Harvest Percentage of Sample Households: and Take (Expanded): Harbor Sea Harbor Sea <u>Seal</u> <u>Lion</u> <u>Lion</u> <u>Seal</u> Used 0.0% Total Number Harvested 10.0% 2.1 Hunted 0.0% 10.0% Total Number Struck and Lost 0.0 0.0 Harvested 0.0% 10.0% Total Number Taken 0.0 2.1 Received 0.0% 0.0%

Number Harvested Per Capita

0.00

0.00

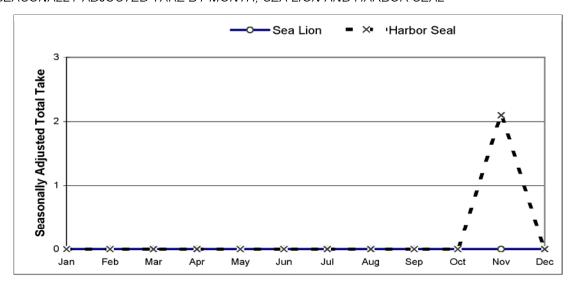
| SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|-----------------------------------|------------------------------|---------|--------|---------|----------|---------|--------|--------|--------|-------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | TAKE BY | SAMPLE | D HOUSE | HOLDS (L | JNEXPAN | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | AND T | AKE BY | COMMU | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTEE | HARVE | EST AND | TAKE | BY COM | MUNITY | (EXPAI | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |
| HADDODS | HARROR SEAL HARVEST BY MONTH | | | | | | | | | | | | | |

| HARBOR S | HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|--------------------------------------|---------|--------|--------|----------|--------|---------|-------|---------|-------|--------|--------|-------|--------|
| | Jan | Feb | Mar | Арг | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | AKE BY | SAMPL | ED HOU | SEHOLI | DS (UNE | XPAND | ED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| ESTIMATED H | HARVES | T AND T | AKE BY | COMM | JNITY (I | EXPAND | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 2.1 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 2.1 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HARV | EST AN | D TAKE | BY COM | MUNIT | Y (EXPA | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | | 2.1 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | | 2.1 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | | |

Table 2. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Craig, 2008

| | | Sea | a Lion | | | or Seal | | | |
|----------------------|---------|----------|---------|---------|--------|---------|----------------|--------|--|
| | Reporte | d by | Communi | ty Est. | Report | ed by | Community Est. | | |
| | Samp | ole | (Expan | ded) | Sam | ple | (Expanded) | | |
| | Number | Number % | | % | Number | % | Number | % | |
| Adult Male | 0 | | 0.0 | | 1 | 100.0% | 2.1 | 100.0% | |
| Adult Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Total | 0 | | 0.0 | | 1 | 100.0% | 2.1 | 100.0% | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|------------|------------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Yea</u> | <u>r Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 199 | 2 74.2 | 0.0 | 74.2 |
| 1993 | 0.0 | 0.0 | 0.0 | 199 | 3 51.1 | 9.8 | 60.9 |
| 1994 | 0.0 | 0.0 | 0.0 | 199 | 4 42.7 | 6.6 | 49.3 |
| 1995 | 0.0 | 0.0 | 0.0 | 199 | 5 69.4 | 13.6 | 83.1 |
| 1996 | 0.0 | 0.0 | 0.0 | 199 | 6 48.2 | 8.0 | 56.3 |
| 1997 | 0.0 | 0.0 | 0.0 | 199 | 7 62.0 | 7.5 | 69.5 |
| 1998 | 0.0 | 0.0 | 0.0 | 199 | 8 52.7 | 5.2 | 57.9 |
| 2000 | 0.0 | 0.0 | 0.0 | 200 | 0 35.0 | 3.0 | 38.0 |
| 2001 | 0.0 | 0.0 | 0.0 | 200 | 1 54.0 | 4.0 | 58.0 |
| 2002 | 0.0 | 0.0 | 0.0 | 200 | 2 38.9 | 5.7 | 44.6 |
| 2003 | 0.0 | 0.0 | 0.0 | 200 | 3 28.0 | 6.0 | 34.0 |
| 2004 | 3.3 | 0.0 | 3.3 | 200 | 4 29.7 | 5.5 | 35.2 |
| 2005 | 0.0 | 0.0 | 0.0 | 200 | 5 26.0 | 3.0 | 29.0 |
| 2006 | 0.0 | 0.0 | 0.0 | 200 | 6 1.3 | 0.0 | 1.3 |
| 2007 | 0.0 | 0.0 | 0.0 | 200 | 7 2.1 | 0.0 | 2.1 |
| 2008 | 0.0 | 0.0 | 0.0 | 200 | 8 2.1 | 0.0 | 2.1 |

Table 3. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Haines, 2008

| SAMPLING DESIGN: | | |
|------------------|---------------------------|-------|
| CHAIN REFERRAL | Total Referred Households | 13 |
| | Surveyed Households | 10 |
| | Sampling Fraction | 76.9% |
| | Sample Household Members | 24 |
| | • | |

31.2 **Estimated Household Members** 2000 U.S. Census Estimated Native Population

HARVEST AND USE INFORMATION 335

| Percentage of Sample Households: | Estimated Community Harvest |
|----------------------------------|-----------------------------|
|----------------------------------|-----------------------------|

| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
|-----------|-------------|-------------|------------------------------|-------------|-------------|
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 0.0% | 30.0% | Total Number Harvested | 0.0 | 15.6 |
| Hunted | 0.0% | 10.0% | Total Number Struck and Lost | 0.0 | 2.6 |
| Harvested | 0.0% | 10.0% | Total Number Taken | 0.0 | 18.2 |
| Received | 0.0% | 20.0% | | | |
| Gave Away | 0.0% | 10.0% | Number Harvested Per Capita | 0.00 | 0.05 |

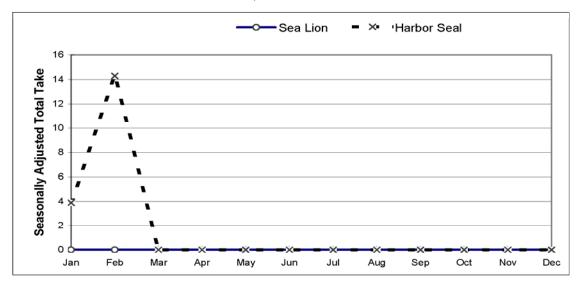
| SEA LION H | SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|-----------------------------------|---------|---------|---------|----------|---------|--------|--------|--------|-------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HARV | /EST AND | TAKE BY | SAMPLEI | D HOUSE | HOLDS (L | JNEXPAN | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | AND T | AKE BY | СОММ | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED SI | EASONA | ALLY AD | JUSTED | HARV | EST AND | TAKE I | BY COM | MUNITY | (EXPAN | IDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR SEAL HARVEST BY MONTH Unknow | | | | | | | | | | Jnknown | | | | |
|-------------------------------------|--------|---------|--------|---------|---------|---------|--------|--------|---------|---------|--------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | HARVES | ST AND | TAKE B | Y SAMPI | LED HO | USEHOI | DS (UN | EXPAN | DED) | | | | | |
| Harvest | 3 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Struck & Lost | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total Take | 3 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| ESTIMATED | HARVE | ST AND | TAKE B | Y COMM | MUNITY | (EXPAN | DED) | | | | | | | |
| Harvest | 3.9 | 11.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.6 |
| Struck & Lost | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 |
| Total Take | 3.9 | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.2 |
| ESTIMATED | SEASOI | NALLY A | ADJUST | ED HAR | VEST AI | ND TAKE | BY CO | MMUNIT | TY (EXP | ANDED) | | | | |
| Harvest | 3.9 | 11.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 15.6 |
| Struck & Lost | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 2.6 |
| Total Take | 3.9 | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 18.2 |
| Total Take (%) | 21.4% | 78.6% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 3.9 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | | |
| Cum. Take (%) | 21.4% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 3. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Haines, 2008

| THAT VEGI DI AGE AND GE | • | | | | | | | |
|-------------------------|---------|------|---------|---------|---------|--------|------------|-----------|
| | | Sea | ı Lion | | | Har | bor Seal | |
| | Reporte | d by | Communi | ty Est. | Reporte | d by | Commu | nity Est. |
| | Samp | ole | (Expan | ded) | Samp | le | (Expanded) | |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 9 | 75.0% | 11.7 | 75.0% |
| Adult Female | 0 | | 0.0 | | 3 | 25.0% | 3.9 | 25.0% |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 12 | 100.0% | 15.6 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|---|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | , | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | | 1992 | 30.5 | 7.9 | 38.4 |
| 1993 | 0.0 | 0.0 | 0.0 | | 1993 | 23.0 | 2.3 | 25.3 |
| 1994 | 0.0 | 0.0 | 0.0 | | 1994 | 39.3 | 2.2 | 41.5 |
| 1995 | 0.0 | 0.0 | 0.0 | | 1995 | 24.0 | 9.0 | 33.0 |
| 1996 | 0.0 | 0.0 | 0.0 | | 1996 | 41.1 | 3.4 | 44.6 |
| 1997 | 0.0 | 0.0 | 0.0 | | 1997 | 36.8 | 10.5 | 47.3 |
| 1998 | 0.0 | 0.0 | 0.0 | | 1998 | 30.7 | 10.6 | 41.3 |
| 2000 | 0.0 | 0.0 | 0.0 | | 2000 | 17.5 | 0.0 | 17.5 |
| 2001 | 0.0 | 0.0 | 0.0 | | 2001 | 19.3 | 1.1 | 20.4 |
| 2002 | 0.0 | 0.0 | 0.0 | | 2002 | 19.6 | 26.2 | 45.8 |
| 2003 | 0.0 | 0.0 | 0.0 | | 2003 | 12.0 | 0.0 | 12.0 |
| 2004 | 0.0 | 0.0 | 0.0 | | 2004 | 7.0 | 0.0 | 7.0 |
| 2005 | 0.0 | 0.0 | 0.0 | | 2005 | 2.0 | 0.0 | 2.0 |
| 2006 | 0.0 | 0.0 | 0.0 | | 2006 | 4.7 | 0.0 | 4.7 |
| 2007 | 0.0 | 0.0 | 0.0 | | 2007 | 19.5 | 0.0 | 19.5 |
| 2008 | 0.0 | 0.0 | 0.0 | | 2008 | 15.6 | 2.6 | 18.2 |

Table 4. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Hoonah, 2008

SAMPLING DESIGN: CHAIN REFERRAL

RAL Total Referred Households 40
Surveyed Households 38
Sampling Fraction 95.0%
Sample Household Members 92
Estimated Household Members 96.8
2000 U.S. Census Estimated Native Population 597

HARVEST AND USE INFORMATION

Percentage of Sample Households: Estimated Community Harvest

| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
|-----------|-------------|-------------|------------------------------|-------------|-------------|
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 0.0% | 52.6% | Total Number Harvested | 0.0 | 25.3 |
| Hunted | 2.6% | 28.9% | Total Number Struck and Lost | 6.3 | 6.3 |
| Harvested | 0.0% | 18.4% | Total Number Taken | 6.3 | 31.6 |
| Received | 0.0% | 52.6% | | | |
| Gave Away | 0.0% | 15.8% | Number Harvested Per Capita | 0.00 | 0.04 |

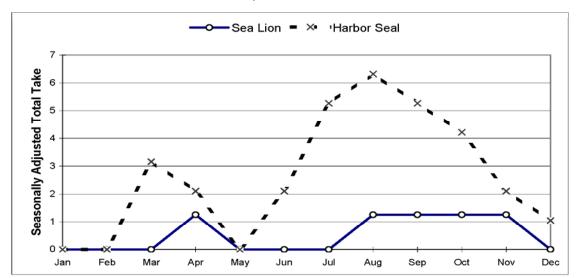
| SEA LION I | HARVE | ST BY | / MON | 'TH | | | | | | | | Į | Jnknown | |
|----------------|---------|---------|---------|---------|---------|---------|--------|--------|---------|-------|--------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AN | TAKE B | Y SAMPL | ED HOUS | EHOLDS | (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Total Take | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| ESTIMATED H | ARVES | T AND T | AKE BY | COMM | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 1.1 | 6.3 |
| Total Take | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 1.1 | 6.3 |
| ESTIMATED S | EASON | ALLY A | DJUSTE | D HAR | /EST AN | ID TAKE | BY COI | имиліт | Y (EXPA | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 0.0 | | 6.3 |
| Total Take | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 0.0 | | 6.3 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 20.0% | 0.0% | 0.0% | 0.0% | 20.0% | 20.0% | 20.0% | 20.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 2.5 | 3.8 | 5.1 | 6.3 | 6.3 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 20.0% | 20.0% | 20.0% | 20.0% | 40.0% | 60.0% | 80.0% | 100.0% | 100.0% | | |

| HARBOR S | HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|--|--------------------------------------|--------|---------|--------|---------|---------|-------|-------|---------|--------|-------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED) | | | | | | | | | | | | | | |
| Harvest | 0 | 0 | 2 | 2 | 0 | 2 | 5 | 5 | 4 | 1 | 2 | 1 | 0 | 24 |
| Struck & Lost | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 6 |
| Total Take | 0 | 0 | 3 | 2 | 0 | 2 | 5 | 6 | 5 | 4 | 2 | 1 | 0 | 30 |
| ESTIMATED H | HARVES | T AND | TAKE BY | COMM | UNITY (| EXPANI | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 2.1 | 2.1 | 0.0 | 2.1 | 5.3 | 5.3 | 4.2 | 1.1 | 2.1 | 1.1 | 0.0 | 25.3 |
| Struck & Lost | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 3.2 | 0.0 | 0.0 | 0.0 | 6.3 |
| Total Take | 0.0 | 0.0 | 3.2 | 2.1 | 0.0 | 2.1 | 5.3 | 6.3 | 5.3 | 4.2 | 2.1 | 1.1 | 0.0 | 31.6 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HARV | EST AN | ID TAKE | BY CO | тилим | Y (EXPA | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 2.1 | 2.1 | 0.0 | 2.1 | 5.3 | 5.3 | 4.2 | 1.1 | 2.1 | 1.1 | | 25.3 |
| Struck & Lost | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 3.2 | 0.0 | 0.0 | | 6.3 |
| Total Take | 0.0 | 0.0 | 3.2 | 2.1 | 0.0 | 2.1 | 5.3 | 6.3 | 5.3 | 4.2 | 2.1 | 1.1 | | 31.6 |
| Total Take (%) | 0.0% | 0.0% | 10.0% | 6.7% | 0.0% | 6.7% | 16.7% | 20.0% | 16.7% | 13.3% | 6.7% | 3.3% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 3.2 | 5.3 | 5.3 | 7.4 | 12.6 | 18.9 | 24.2 | 28.4 | 30.5 | 31.6 | | |
| Cum. Take (%) | 0.0% | 0.0% | 10.0% | 16.7% | 16.7% | 23.3% | 40.0% | 60.0% | 76.7% | 90.0% | 96.7% | 100.0% | | |

Table 4. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Hoonah, 2008

| | | Sea | a Lion | | Harbor Seal | | | | | |
|----------------------|---------|------|---------|----------|-------------|--------|------------|-----------|--|--|
| | Reporte | d by | Communi | ty Est. | Reporte | d by | Commu | nity Est. | | |
| | Samp | ole | (Expand | ded) | Samp | ole | (Expanded) | | | |
| | Number | % | Number | Number % | | % | Number | % | | |
| Adult Male | 0 | | 0.0 | | 15 | 62.5% | 15.8 | 62.5% | | |
| Adult Female | 0 | | 0.0 | | 5 | 20.8% | 5.3 | 20.8% | | |
| Adult Unknown Sex | 0 | | 0.0 | | 2 | 8.3% | 2.1 | 8.3% | | |
| Juvenile Male | 0 | | 0.0 | | 2 | 8.3% | 2.1 | 8.3% | | |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Total | 0 | | 0.0 | | 24 | 100.0% | 25.3 | 100.0% | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | _ | HARBOR SEAL | | | | |
|-------------|----------------|-------------|-------------|---|-------------|----------------|-------------|-------------|--|
| | | Struck/ | Total | _ | | | Struck/ | Total | |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | |
| 1992 | 0.0 | 0.0 | 0.0 | | 1992 | 350.2 | 24.8 | 375.0 | |
| 1993 | 0.0 | 0.0 | 0.0 | | 1993 | 324.4 | 35.8 | 360.2 | |
| 1994 | 0.0 | 0.0 | 0.0 | | 1994 | 240.7 | 15.0 | 255.8 | |
| 1995 | 0.0 | 0.0 | 0.0 | | 1995 | 236.6 | 19.7 | 256.3 | |
| 1996 | 0.0 | 0.0 | 0.0 | | 1996 | 359.7 | 48.6 | 408.3 | |
| 1997 | 0.0 | 0.0 | 0.0 | | 1997 | 143.8 | 9.9 | 153.8 | |
| 1998 | 0.0 | 0.0 | 0.0 | | 1998 | 169.7 | 19.8 | 189.6 | |
| 2000 | 0.0 | 0.0 | 0.0 | | 2000 | 147.9 | 16.0 | 163.9 | |
| 2001 | 0.0 | 0.0 | 0.0 | | 2001 | 143.4 | 13.2 | 156.7 | |
| 2002 | 0.0 | 0.0 | 0.0 | | 2002 | 96.4 | 6.0 | 102.4 | |
| 2003 | 0.0 | 4.6 | 4.6 | | 2003 | 52.2 | 10.4 | 62.6 | |
| 2004 | 0.0 | 7.2 | 7.2 | | 2004 | 106.2 | 9.0 | 115.2 | |
| 2005 | 0.0 | 9.0 | 9.0 | | 2005 | 53.0 | 11.0 | 64.0 | |
| 2006 | 0.0 | 10.1 | 10.1 | | 2006 | 55.6 | 7.6 | 63.2 | |
| 2007 | 0.0 | 6.1 | 6.1 | | 2007 | 34.4 | 6.1 | 40.5 | |
| 2008 | 0.0 | 6.3 | 6.3 | | 2008 | 25.3 | 6.3 | 31.6 | |

Table 5. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Hydaburg, 2008

SAMPLING DESIGN: CHAIN REFERRAL

Total Referred Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
43.2

2000 U.S. Census Estimated Native Population 342

HARVEST AND USE INFORMATION

| HARVEOT AND OCE IN CHIMATION | | | | | | | | | | | |
|------------------------------|-------------|-------------|------------------------------|-------------|-------------|--|--|--|--|--|--|
| Percentage of Sample F | louse | holds: | Estimated Community Harvest | | | | | | | | |
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor | | | | | | |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> | | | | | | |
| Used | 0.0% | 40.0% | Total Number Harvested | 0.0 | 14.4 | | | | | | |
| Hunted | 0.0% | 40.0% | Total Number Struck and Lost | 0.0 | 0.0 | | | | | | |
| Harvested | 0.0% | 40.0% | Total Number Taken | 0.0 | 14.4 | | | | | | |
| Received | 0.0% | 0.0% | | | | | | | | | |
| Gave Away | 0.0% | 20.0% | Number Harvested Per Capita | 0.00 | 0.04 | | | | | | |

| SEA LION F | SEA LION HARVEST BY MONTH | | | | | | | | | | | | | |
|----------------|---------------------------|---------|--------|---------|----------|---------|--------|--------|--------|-------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | /EST AND | TAKE BY | SAMPLE | D HOUSE | HOLDS (L | JNEXPAN | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | ANDT | AKE BY | СОММ | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTED | HARVE | EST AND | TAKE I | ЗҮ СОМ | MUNITY | (EXPAI | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

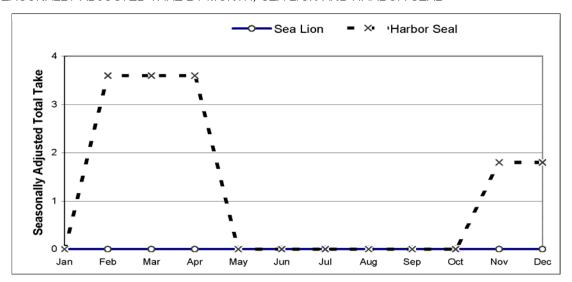
| ▮ HARBOR S | HARBOR SEAL HARVEST BY MONTH Unknown Unknown | | | | | | | | | | | l | Jnknown | |
|----------------|--|---------|---------|--------|---------|---------|---------|--------|---------|--------|-------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | AKE BY | SAMPL | ED HOL | JSEHOL | DS (UNI | EXPAND | ED) | | | | | · |
| Harvest | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 9 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 9 |
| ESTIMATED H | HARVES | ST AND | TAKE BY | COMM | UNITY (| EXPAND | DED) | | | | | | | |
| Harvest | 0.0 | 3.2 | 3.2 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 1.6 | 14.4 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 3.2 | 3.2 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 1.6 | 14.4 |
| ESTIMATEDS | SEASON | NALLY A | DJUSTE | D HARV | EST AN | ID TAKE | BY CO | имиліт | Y (EXPA | ANDED) | | | | |
| Harvest | 0.0 | 3.6 | 3.6 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | | 14.4 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 3.6 | 3.6 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | | 14.4 |
| Total Take (%) | 0.0% | 25.0% | 25.0% | 25.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 12.5% | 12.5% | | 100.0% |
| Cum. Take | 0.0 | 3.6 | 7.2 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 10.8 | 12.6 | 14.4 | | |
| Cum. Take (%) | 0.0% | 25.0% | 50.0% | 75.0% | 75.0% | 75.0% | 75.0% | 75.0% | 75.0% | 75.0% | 87.5% | 100.0% | | |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, (Numbers based on 1998 survey estimates).

Table 5. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Hydaburg, 2008

| | | Sea | a Lion | | Harbor Seal | | | | | |
|----------------------|---------|------|---------|---------|-------------|--------|--------|-----------|--|--|
| | Reporte | d by | Communi | ty Est. | Report | ed by | Commu | nity Est. | | |
| | Samp | ole | (Expan | ded) | Sam | ple | (Expa | nded) | | |
| | Number | % | Number | % | Number | % | Number | % | | |
| Adult Male | 0 | | 0.0 | | 4 | 44.4% | 6.4 | 44.4% | | |
| Adult Female | 0 | | 0.0 | | 3 | 33.3% | 4.8 | 33.3% | | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Male | 0 | | 0.0 | | 2 | 22.2% | 3.2 | 22.2% | | |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Total | 0 | | 0.0 | | 9 | 100.0% | 14.4 | 100.0% | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | HARBOR SEAL | | | | |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|--|
| | | Struck/ | Total | | | Struck/ | Total | |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 30.0 | 2.1 | 32.1 | |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 14.0 | 0.0 | 14.0 | |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 10.0 | 0.0 | 10.0 | |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 6.5 | 0.0 | 6.5 | |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 15.0 | 0.0 | 15.0 | |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 11.5 | 0.0 | 11.5 | |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 14.4 | 0.0 | 14.4 | |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 14.4 | 0.0 | 14.4 | |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 14.4 | 0.0 | 14.4 | |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 14.4 | 0.0 | 14.4 | |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 14.4 | 0.0 | 14.4 | |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 14.4 | 0.0 | 14.4 | |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 14.4 | 0.0 | 14.4 | |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 14.4 | 0.0 | 14.4 | |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 14.4 | 0.0 | 14.4 | |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 14.4 | 0.0 | 14.4 | |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998 (Numbers based on 1998 harvest estimates).

Table 6. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Juneau, 2008

SAMPLING DESIGN: CHAIN REFERRAL

HAIN REFERRAL Total Referred Households 16
Surveyed Households 12
Sampling Fraction 75.0%
Sample Household Members 37
Estimated Household Members 49.3

Estimated Household Members 49.3 2000 U.S. Census Estimated Native Population 5084

HARVEST AND USE INFORMATION

| Percentage of Sample H | lousel | holds: | Estimated Community Harvest | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 0.0% | 41.7% | Total Number Harvested | 0.0 | 8.0 |
| Hunted | 0.0% | 33.3% | Total Number Struck and Lost | 0.0 | 1.3 |
| Harvested | 0.0% | 33.3% | Total Number Taken | 0.0 | 9.3 |
| Received | 0.0% | 16.7% | | | |
| Gave Away | 0.0% | 33.3% | Number Harvested Per Capita | 0.00 | 0.00 |

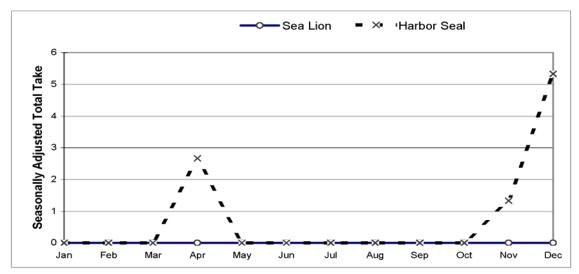
| SEA LION F | SEA LION HARVEST BY MONTH | | | | | | | | | | | | | |
|----------------|---------------------------|---------|----------|---------|----------|---------|--------|--------|--------|------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | TAKE BY | Y SAMPLE | D HOUSE | HOLDS (L | JNEXPAN | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | IARVEST | ANDT | AKE BY | СОММ | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTEE | HARV | EST AND | TAKE I | BY COM | MUNITY | (EXPAN | DED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |
| HADDODS | EAL U. | A D V/E | STDVI | MONT | П | | | | | | | | Inknown | |

| HARBOR S | HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|--------------------------------------|---------|--------|--------|---------|---------|---------|--------|---------|-------|-------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | AKE BY | SAMPL | .ED HOL | JSEHOL | DS (UNI | EXPAND | DED) | | | | | |
| Harvest | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 6 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Total Take | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 7 |
| ESTIMATED H | HARVES | T AND T | AKE BY | COMM | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 4.0 | 0.0 | 8.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 1.3 |
| Total Take | 0.0 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 5.3 | 0.0 | 9.3 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HARV | EST AN | ID TAKE | BY CO | имиит | Y (EXPA | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 4.0 | | 8.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | | 1.3 |
| Total Take | 0.0 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 5.3 | | 9.3 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 28.6% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 14.3% | 57.1% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 4.0 | 9.3 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 28.6% | 28.6% | 28.6% | 28.6% | 28.6% | 28.6% | 28.6% | 42.9% | 100.0% | | |

Table 6. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Juneau, 2008

| | | Se | ea Lion | | | Harbor Seal | | | | | |
|----------------------|---------|------|---------|----------|----------|-------------|--------|-----------|--|--|--|
| | Reporte | d by | Commun | ity Est. | Reported | d by | Commur | nity Est. | | | |
| | Samp | ole | (Expan | ded) | Samp | le | (Expar | nded) | | | |
| | Number | % | Number | % | Number | % | Number | % | | | |
| Adult Male | 0 | | 0.0 | | 4 | 66.7% | 5.3 | 66.7% | | | |
| Adult Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Juvenile Male | 0 | | 0.0 | | 2 | 33.3% | 2.7 | 33.3% | | | |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Total | 0 | | 0.0 | | 6 | 100.0% | 8.0 | 100.0% | | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 122.6 | 7.6 | 130.2 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 59.0 | 21.6 | 80.6 |
| 1994 | 1.1 | 0.0 | 1.1 | 1994 | 78.6 | 13.5 | 92.1 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 42.9 | 1.3 | 44.2 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 32.8 | 1.3 | 34.1 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 99.0 | 0.0 | 99.0 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 90.4 | 15.3 | 105.7 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 59.9 | 3.5 | 63.4 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 29.9 | 1.6 | 31.5 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 17.2 | 1.4 | 18.7 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 30.3 | 24.8 | 55.0 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 13.6 | 9.1 | 22.7 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 8.0 | 1.0 | 9.0 |
| 2006 | 1.4 | 0.0 | 1.4 | 2006 | 26.1 | 23.4 | 49.5 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 16.0 | 10.0 | 26.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 8.0 | 1.3 | 9.3 |

Table 7. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kake, 2008

| SAMPLING DESIGN: | | | |
|----------------------|------------------------------------|--------|--|
| CHAIN REFERRAL | Total Referred Households | 25 | |
| | Surveyed Households | 25 | |
| | Sampling Fraction | 100.0% | |
| | Sample Household Members | 67 | |
| | Estimated Household Members | 67.0 | |
| 2000 U.S. C | Census Estimated Native Population | 530 | |
| HARVEST AND USE INFO | RMATION | | |

| HARVEST AND OSE IN | CINI | VIATION | | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|
| Percentage of Sample H | lousei | holds: | Estimated Community Harvest | | |
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 0.0% | 96.0% | Total Number Harvested | 0.0 | 23.0 |
| Hunted | 0.0% | 44.0% | Total Number Struck and Lost | 0.0 | 2.0 |
| Harvested | 0.0% | 36.0% | Total Number Taken | 0.0 | 25.0 |
| Received | 0.0% | 76.0% | | | |
| Gave Away | 0.0% | 44.0% | Number Harvested Per Capita | 0.00 | 0.04 |
| | | | | | |

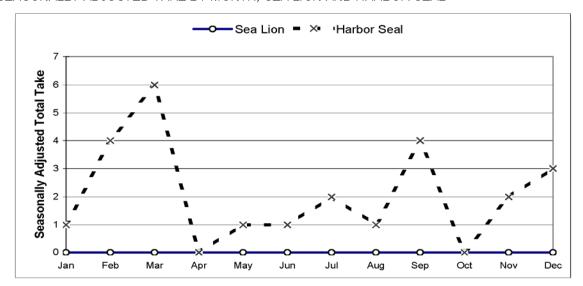
| SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|------------------------------------|----------|---------|----------|---------|----------|---------|--------|--------|----------|-------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | TAKE BY | 'SAMPLEI |) HOUSE | HOLDS (L | JNEXPAN | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | AND T | AKE BY | COMMU | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTED |) HARVE | EST AND | TAKE I | BY COM | MUNITY | ' (EXPAN | IDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR S | SEAL F | IARVE | ST BY | MONT | ГН | | | | | | | Į | Jnknown | |
|----------------|--------|---------|---------|-------|----------|---------|---------|--------|---------|-------|-------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | TAKE BY | SAMPL | .ED HOL | JSEHOL | DS (UNI | EXPAND | DED) | | | | | |
| Harvest | 1 | 4 | 6 | 0 | 1 | 1 | 1 | 1 | 3 | 0 | 2 | 3 | 0 | 23 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| Total Take | 1 | 4 | 6 | 0 | 1 | 1 | 2 | 1 | 4 | 0 | 2 | 3 | 0 | 25 |
| ESTIMATED H | HARVES | ST AND | TAKE BY | COMM | IUNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 1.0 | 4.0 | 6.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 | 3.0 | 0.0 | 2.0 | 3.0 | 0.0 | 23.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| Total Take | 1.0 | 4.0 | 6.0 | 0.0 | 1.0 | 1.0 | 2.0 | 1.0 | 4.0 | 0.0 | 2.0 | 3.0 | 0.0 | 25.0 |
| ESTIMATED S | SEASO | NALLY A | DJUSTE | D HAR | /EST AN | ID TAKE | BY CO | имиліт | Y (EXPA | NDED) | | | | |
| Harvest | 1.0 | 4.0 | 6.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 | 3.0 | 0.0 | 2.0 | 3.0 | | 23.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | | 2.0 |
| Total Take | 1.0 | 4.0 | 6.0 | 0.0 | 1.0 | 1.0 | 2.0 | 1.0 | 4.0 | 0.0 | 2.0 | 3.0 | | 25.0 |
| Total Take (%) | 4.0% | 16.0% | 24.0% | 0.0% | 4.0% | 4.0% | 8.0% | 4.0% | 16.0% | 0.0% | 8.0% | 12.0% | | 100.0% |
| Cum. Take | 1.0 | 5.0 | 11.0 | 11.0 | 12.0 | 13.0 | 15.0 | 16.0 | 20.0 | 20.0 | 22.0 | 25.0 | | |
| Cum. Take (%) | 4.0% | 20.0% | 44.0% | 44.0% | 48.0% | 52.0% | 60.0% | 64.0% | 80.0% | 80.0% | 88.0% | 100.0% | | |

Table 7. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kake, 2008

| | | Se | ea Lion | | | Hai | bor Seal | |
|----------------------|---------|------|---------|----------|---------|--------|----------|-----------|
| | Reporte | d by | Commun | ity Est. | Reporte | d by | Commur | nity Est. |
| | Samp | le | (Expan | ded) | Samp | ole | (Expar | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 17 | 73.9% | 17.0 | 73.9% |
| Adult Female | 0 | | 0.0 | | 3 | 13.0% | 3.0 | 13.0% |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Male | 0 | | 0.0 | | 2 | 8.7% | 2.0 | 8.7% |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 1 | 4.3% | 1.0 | 4.3% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 23 | 100.0% | 23.0 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | | HARBO | R SEA | L |
|-------------|----------------|---------|-------------|---|-------------|----------------|---------|-------------|
| | | Struck/ | Total | ' | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | | 1992 | 173.9 | 12.3 | 186.2 |
| 1993 | 0.0 | 0.0 | 0.0 | | 1993 | 100.8 | 15.2 | 115.9 |
| 1994 | 1.2 | 0.0 | 1.2 | | 1994 | 99.3 | 7.4 | 106.6 |
| 1995 | 0.0 | 0.0 | 0.0 | | 1995 | 72.0 | 1.5 | 73.5 |
| 1996 | 0.0 | 0.0 | 0.0 | | 1996 | 86.4 | 0.0 | 86.4 |
| 1997 | 0.0 | 0.0 | 0.0 | | 1997 | 68.4 | 7.6 | 76.0 |
| 1998 | 0.0 | 0.0 | 0.0 | | 1998 | 123.0 | 6.1 | 129.1 |
| 2000 | 0.0 | 0.0 | 0.0 | | 2000 | 101.7 | 3.6 | 105.3 |
| 2001 | 0.0 | 0.0 | 0.0 | | 2001 | 85.6 | 10.7 | 96.4 |
| 2002 | 0.0 | 0.0 | 0.0 | | 2002 | 98.2 | 10.6 | 108.7 |
| 2003 | 0.0 | 0.0 | 0.0 | | 2003 | 52.1 | 0.0 | 52.1 |
| 2004 | 0.0 | 0.0 | 0.0 | | 2004 | 96.2 | 0.0 | 96.2 |
| 2005 | 0.0 | 0.0 | 0.0 | | 2005 | 47.6 | 4.6 | 52.3 |
| 2006 | 0.0 | 0.0 | 0.0 | | 2006 | 40.5 | 0.0 | 40.5 |
| 2007 | 0.0 | 0.0 | 0.0 | | 2007 | 24.5 | 1.1 | 25.7 |
| 2008 | 0.0 | 0.0 | 0.0 | | 2008 | 23.0 | 2.0 | 25.0 |

Table 8. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ketchikan, 2008

SAMPLING DESIGN: CHAIN REFERRAL

RAL Total Referred Households 10
Surveyed Households 6
Sampling Fraction 60.0%
Sample Household Members 13
Estimated Household Members 21.7
2000 U.S. Census Estimated Native Population 1802

HARVEST AND USE INFORMATION

| Percentage of Sample F | louse | holds: | Estimated Community Harvest | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used 16.7% 16.7% | | 16.7% | Total Number Harvested | 1.7 | 66.7 |
| Hunted | 16.7% | 16.7% | Total Number Struck and Lost | 1.7 | 0.0 |
| | | 16.7% | Total Number Taken | 3.3 | 66.7 |
| Received | 0.0% | 0.0% | | | |
| Gave Away | 0.0% | 16.7% | Number Harvested Per Capita | 0.00 | 0.04 |

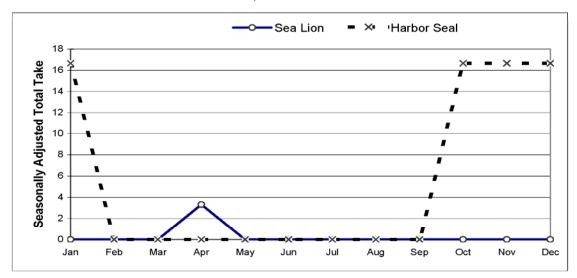
| SEA LION I | SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|-----------------------------------|----------|---------|---------|---------|---------|--------|--------|----------|--------|--------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | D TAKE B | Y SAMPL | ED HOUS | SEHOLDS | (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Struck & Lost | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Take | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| ESTIMATED H | ARVES | T AND T | AKE B | Y COMM | UNITY (| (EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 |
| Total Take | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 |
| ESTIMATED S | EASON. | ALLY A | DJUSTE | ED HAR | /EST AN | ND TAKE | BY CO | ММИМІТ | ΓΥ (EXPA | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 1.7 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 1.7 |
| Total Take | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 3.3 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

| HARBOR S | SEAL H | <i>IARVE</i> | ST BY | MONT | ГН | | | | | | | Į | Jnknown | |
|----------------|--------|--------------|---------|--------|----------|---------|---------|--------|---------|-------|-------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | HARVES | T AND T | TAKE BY | 'SAMPL | .ED HOL | JSEHOL | DS (UNI | EXPAND | DED) | | | | | |
| Harvest | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 | 10 | 0 | 40 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 | 10 | 0 | 40 |
| ESTIMATED | HARVES | T AND | TAKE BY | COMM | IUNITY (| (EXPANI | DED) | | | | | | | |
| Harvest | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 | 16.7 | 16.7 | 0.0 | 66.7 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 | 16.7 | 16.7 | 0.0 | 66.7 |
| ESTIMATED | SEASON | NALLY A | DJUSTE | D HAR | /EST AN | ID TAKE | BY CO | мминіт | Y (EXPA | NDED) | | | | |
| Harvest | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 | 16.7 | 16.7 | | 66.7 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 16.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.7 | 16.7 | 16.7 | | 66.7 |
| Total Take (%) | 25.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 25.0% | 25.0% | 25.0% | | 100.0% |
| Cum. Take | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 16.7 | 33.3 | 50.0 | 66.7 | | |
| Cum. Take (%) | 25.0% | 25.0% | 25.0% | 25.0% | 25.0% | 25.0% | 25.0% | 25.0% | 25.0% | 50.0% | 75.0% | 100.0% | | |

Table 8. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ketchikan, 2008

| | | Se | ea Lion | | | Har | bor Seal | |
|----------------------|--------|--------|---------|-----------|---------|--------|----------|-----------|
| | Report | ed by | Commur | nity Est. | Reporte | d by | Commu | nity Est. |
| | Sam | ple | (Expar | nded) | Samp | ole | (Expai | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Adult Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 30 | 75.0% | 50.0 | 75.0% |
| Juvenile Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 1 | 100.0% | 1.7 | 100.0% | 10 | 25.0% | 16.7 | 25.0% |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Total | 1 | 100.0% | 1.7 | 100.0% | 40 | 100.0% | 66.7 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | - | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 90.2 | 6.5 | 96.8 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 42.4 | 2.9 | 45.3 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 31.4 | 0.0 | 31.4 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 46.4 | 0.0 | 46.4 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 25.0 | 0.0 | 25.0 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 27.4 | 4.3 | 31.8 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 26.7 | 0.0 | 26.7 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 111.7 | 0.0 | 111.7 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 12.7 | 0.0 | 12.7 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 123.5 | 1.2 | 124.6 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 78.0 | 0.0 | 78.0 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 60.0 | 5.0 | 65.0 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 73.1 | 0.0 | 73.1 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 37.6 | 0.0 | 37.6 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 78.0 | 2.4 | 80.4 |
| 2008 | 1.7 | 1.7 | 3.3 | 2008 | 66.7 | 0.0 | 66.7 |

Table 9. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Klawock, 2008

SAMPLING DESIGN:

CHAIN REFERRAL **Total Referred Households** 29 23 Surveyed Households Sampling Fraction 79.3%

34.8%

Sample Household Members 69 87.0 **Estimated Household Members** 2000 U.S. Census Estimated Native Population 496

0.04

HARVEST AND USE INFORMATION

Percentage of Sample Households: Estimated Community Harvest and Take (Expanded): Sea Harbor Sea Harbor <u>Lion</u> <u>Seal</u> <u>Lion</u> <u>Seal</u> Total Number Harvested Used 0.0% 47.8% 21.4 Hunted 0.0% 34.8% Total Number Struck and Lost 0.0 1.3 Harvested 0.0% Total Number Taken 34.8% 0.0 22.7 Received 0.0% 13.0% Gave Away 0.0% Number Harvested Per Capita 0.00

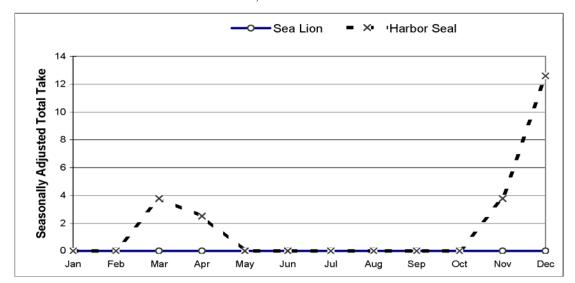
| SEA LION F | IARVE | STBY | MON7 | Н | | | | | | | | ĺ | Jnknown | |
|----------------|----------|---------|--------|---------|----------|---------|--------|--------|--------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HARV | /EST AND | TAKE BY | SAMPLE | D HOUSE | HOLDS (L | JNEXPAN | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | AND T | AKE BY | сомми | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AE | JUSTEE | HARVI | EST AND | TAKE I | ВҮ СОМ | MUNITY | (EXPAI | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| | HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|--------------------------------------|---------|---------|--------|---------|---------|---------|--------|---------|--------|-------|--------|---------|--------|
| HARBOR S | SEAL H | 'ARVE | ST BY | MONT | ΓН | | | | | | | l | Jnknown | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | AKE BY | SAMPL | .ED HOL | JSEHOL | DS (UNI | EXPAND | DED) | | | | | |
| Harvest | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 9 | 0 | 17 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Total Take | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 10 | 0 | 18 |
| ESTIMATED I | HARVES | T AND | TAKE BY | COMM | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 3.8 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 11.3 | 0.0 | 21.4 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 1.3 |
| Total Take | 0.0 | 0.0 | 3.8 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 12.6 | 0.0 | 22.7 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HARV | EST AN | ID TAKE | BY CO | тилим | Y (EXPA | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 3.8 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 11.3 | | 21.4 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | | 1.3 |
| Total Take | 0.0 | 0.0 | 3.8 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 12.6 | | 22.7 |
| Total Take (%) | 0.0% | 0.0% | 16.7% | 11.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 16.7% | 55.6% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 3.8 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 10.1 | 22.7 | | |
| Cum. Take (%) | 0.0% | 0.0% | 16.7% | 27.8% | 27.8% | 27.8% | 27.8% | 27.8% | 27.8% | 27.8% | 44.4% | 100.0% | | |

Table 9. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Klawock, 2008

| | | Sea Lion | | | | Harbor Seal | | | |
|----------------------|-----------------------|----------|---------|------------------------------|--------|-----------------------|--------|------------------------------|--|
| | Reported by Sample | | Communi | Community Est. (Expanded) | | Reported by Sample | | Community Est. (Expanded) | |
| | | | (Expand | | | | | | |
| | Number | % | Number | % | Number | % | Number | % | |
| Adult Male | 0 | | 0.0 | | 15 | 88.2% | 18.9 | 88.2% | |
| Adult Female | 0 | | 0.0 | | 2 | 11.8% | 2.5 | 11.8% | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Total | 0 | | 0.0 | | 17 | 100.0% | 21.4 | 100.0% | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| SEA LION | | | | HARBOR SEAL | | | | |
|-------------|----------------|-------------|-------------|-------------|-------------|----------------|---------|-------------|
| | | Struck/ | Total | _ | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> |
| 1992 | 1.4 | 0.0 | 1.4 | | 1992 | 39.0 | 1.4 | 40.3 |
| 1993 | 0.0 | 0.0 | 0.0 | | 1993 | 39.8 | 0.0 | 39.8 |
| 1994 | 0.0 | 0.0 | 0.0 | | 1994 | 71.1 | 0.0 | 71.1 |
| 1995 | 0.0 | 0.0 | 0.0 | | 1995 | 263.8 | 0.0 | 263.8 |
| 1996 | 0.0 | 0.0 | 0.0 | | 1996 | 69.8 | 0.0 | 69.8 |
| 1997 | 0.0 | 0.0 | 0.0 | | 1997 | 94.0 | 0.0 | 94.0 |
| 1998 | 0.0 | 0.0 | 0.0 | | 1998 | 83.0 | 0.0 | 83.0 |
| 2000 | 1.3 | 0.0 | 1.3 | | 2000 | 67.1 | 0.0 | 67.1 |
| 2001 | 0.0 | 0.0 | 0.0 | | 2001 | 71.5 | 0.0 | 71.5 |
| 2002 | 1.0 | 0.0 | 1.0 | | 2002 | 24.0 | 0.0 | 24.0 |
| 2003 | 2.3 | 0.0 | 2.3 | | 2003 | 59.8 | 0.0 | 59.8 |
| 2004 | 1.3 | 0.0 | 1.3 | | 2004 | 29.2 | 7.6 | 36.8 |
| 2005 | 0.0 | 10.0 | 10.0 | | 2005 | 20.0 | 2.0 | 22.0 |
| 2006 | 1.2 | 0.0 | 1.2 | | 2006 | 16.2 | 3.5 | 19.7 |
| 2007 | 0.0 | 0.0 | 0.0 | | 2007 | 43.9 | 5.2 | 49.1 |
| 2008 | 0.0 | 0.0 | 0.0 | | 2008 | 21.4 | 1.3 | 22.7 |

Table 10. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Klukwan, 2008

CHAIN REFERRAL Total Referred Households 8
Surveyed Households 3
Sampling Fraction 37.5%

Sample Household Members 9
Estimated Household Members 24.0
2000 U.S. Census Estimated Native Population 123

HARVEST AND USE INFORMATION

| Percentage of Sample H | lousei | holds: | Estimated Community Harvest | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 0.0% | 100.0% | Total Number Harvested | 0.0 | 0.0 |
| Hunted | 0.0% | 0.0% | Total Number Struck and Lost | 0.0 | 0.0 |
| Harvested | 0.0% | 0.0% | Total Number Taken | 0.0 | 0.0 |
| Received | 0.0% | 100.0% | | | |
| Gave Away | 0.0% | 0.0% | Number Harvested Per Capita | 0.00 | 0.00 |

| SEA LION F | HARVE | ST BY | MON7 | Н | | | | | | | | Į | Jnknown | |
|----------------|----------|-------------|---------|---------|----------|---------|--------|--------|--------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | TAKE BY | SAMPLE | D HOUSE | HOLDS (L | JNEXPAN | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | AND T | AKE BY | COMMU | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTEE |) HARVI | EST AND | TAKE | BY COM | MUNITY | (EXPAI | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |
| HADDODS | EAL III | 1 D 1 / E C | ST DV I | 40NT | П | | | | | | | 1 | Inknown | |

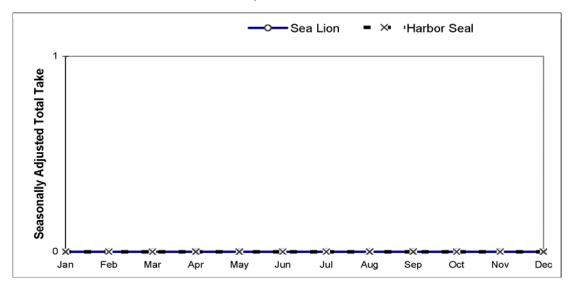
| HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|--------------------------------------|--------|---------|--------|--------|----------|--------|--------|--------|--------|-------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HA | ARVEST | AND TA | AKE BY | SAMPLE | ED HOUS | SEHOLD | S (UNE | XPANDE | ED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H. | ARVEST | AND T | AKE BY | СОММ | JNITY (E | XPANDI | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTED | HARVI | EST AND | TAKE E | BY COM | MUNITY | (EXPAI | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

SOURCE: SAIFWC Household Surveys, (Numbers based on 2001 harvest estimates).

Table 10. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Klukwan, 2008

| | | Sea | a Lion | | Harbor Seal | | | | | | |
|----------------------|---------|------|---------|------------|-------------|------|-------------|---|--|--|--|
| | Reporte | d by | Communi | ty Est. | Reporte | d by | Community E | | | | |
| | Samp | ole | (Expand | (Expanded) | | ole | (Expanded) | | | | |
| | Number | % | Number | % | Number | % | Number | % | | | |
| Adult Male | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Adult Female | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Juvenile Male | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Juvenile Female | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Pup Male | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Pup Female | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Male Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Female Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Total | 0 | | 0.0 | | 0 | | 0.0 | | | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | H | IARBO | R SEA | L |
|-------------|----------------|-------------|-------------|---|-------------|----------------|---------|-------------|
| | | Struck/ | Total | • | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | | 1992 | 8.0 | 2.0 | 10.0 |
| 1993 | 0.0 | 0.0 | 0.0 | | 1993 | 1.2 | 0.0 | 1.2 |
| 1994 | 0.0 | 0.0 | 0.0 | | 1994 | 3.8 | 1.3 | 5.0 |
| 1995 | 0.0 | 0.0 | 0.0 | | 1995 | 35.2 | 6.4 | 41.6 |
| 1996 | 0.0 | 0.0 | 0.0 | | 1996 | 6.3 | 0.0 | 6.3 |
| 1997 | 0.0 | 0.0 | 0.0 | | 1997 | 1.1 | 0.0 | 1.1 |
| 1998 | 0.0 | 0.0 | 0.0 | | 1998 | 10.5 | 0.0 | 10.5 |
| 2000 | 0.0 | 0.0 | 0.0 | | 2000 | 18.0 | 0.0 | 18.0 |
| 2001 | 0.0 | 0.0 | 0.0 | | 2001 | 0.0 | 0.0 | 0.0 |
| 2002 | 0.0 | 0.0 | 0.0 | | 2002 | 0.0 | 0.0 | 0.0 |
| 2003 | 0.0 | 0.0 | 0.0 | | 2003 | 0.0 | 0.0 | 0.0 |
| 2004 | 0.0 | 0.0 | 0.0 | | 2004 | 0.0 | 0.0 | 0.0 |
| 2005 | 0.0 | 0.0 | 0.0 | | 2005 | 0.0 | 0.0 | 0.0 |
| 2006 | 0.0 | 0.0 | 0.0 | | 2006 | 0.0 | 0.0 | 0.0 |
| 2007 | 0.0 | 0.0 | 0.0 | | 2007 | 0.0 | 0.0 | 0.0 |
| 2008 | 0.0 | 0.0 | 0.0 | | 2008 | 0.0 | 0.0 | 0.0 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAIFWC Household Surveys, 2000-2009. (Numbers based on 2001 harvest estimates).

Table 11. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Pelican, 2008

| SAMPLING DESIGN: | |
|------------------|--|
| CHAIN REFERRAL | |
| | |

RAL Total Referred Households 5
Surveyed Households 4
Sampling Fraction 80.0%
Sample Household Members 7
Estimated Household Members 8.8
2000 U.S. Census Estimated Native Population 42

HARVEST AND USE INFORMATION

| Percentage of Sample Households: | Estimated Community Harvest |
|----------------------------------|-----------------------------|
| | |

| , | Sea <u>Lion</u> | Harbor <u>Seal</u> | and Take (Expanded): | Sea <u>Lion</u> | Harbor <u>Seal</u> |
|-----------|--------------------|-----------------------|------------------------------|--------------------|-----------------------|
| Used | 0.0% | 100.0% | Total Number Harvested | 0.0 | 10.0 |
| Hunted | 0.0% | 100.0% | Total Number Struck and Lost | 0.0 | 0.0 |
| Harvested | 0.0% | 100.0% | Total Number Taken | 0.0 | 10.0 |
| Received | 0.0% | 0.0% | | | |
| Gave Away | 0.0% | 25.0% | Number Harvested Per Capita | 0.00 | 0.24 |

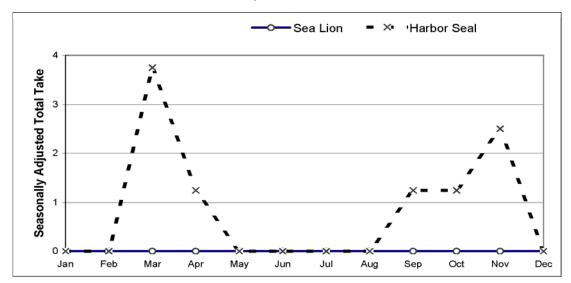
| SEA LION H | SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|-----------------------------------|---------|--------|---------|----------|---------|--------|--------|--------|-------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | TAKE BY | SAMPLE | D HOUSE | HOLDS (L | JNEXPAN | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | IARVEST | AND T | AKE BY | СОММС | JNITY (E | XPANDI | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTEE |) HARVE | EST AND | TAKE E | ЗҮ СОМ | MUNITY | (EXPAI | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR S | EAL H. | ARVE | SIBY | NON | 'H | | | | | | | Ų | Jnknown | |
|----------------|--------|---------|---------|-------|----------|---------|---------|--------|--------|-------|--------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | ARVEST | ANDT | AKE BY | SAMPL | .ED HOL | JSEHOL | DS (UNI | EXPAND | DED) | | | • | | • |
| Harvest | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 8 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 8 |
| ESTIMATED F | HARVES | T AND T | TAKE BY | COMM | IUNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 2.5 | 0.0 | 0.0 | 10.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 2.5 | 0.0 | 0.0 | 10.0 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HAR | /EST AN | ID TAKE | BY CO | имиліт | Y (EXP | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 2.5 | 0.0 | | 10.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 2.5 | 0.0 | | 10.0 |
| Total Take (%) | 0.0% | 0.0% | 37.5% | 12.5% | 0.0% | 0.0% | 0.0% | 0.0% | 12.5% | 12.5% | 25.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 3.8 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 6.3 | 7.5 | 10.0 | 10.0 | | |
| Cum. Take (%) | 0.0% | 0.0% | 37.5% | 50.0% | 50.0% | 50.0% | 50.0% | 50.0% | 62.5% | 75.0% | 100.0% | 100.0% | | |

Table 11. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Pelican, 2008

| | | Sea | Lion | | Harbor Seal | | | | | | |
|----------------------|---------|------|---------|---------|-------------|--------|------------|-----------|--|--|--|
| | Reporte | d by | Communi | ty Est. | Reporte | ed by | Commu | nity Est. | | | |
| | Samp | ole | (Expan | ded) | Sam | ple | (Expanded) | | | | |
| | Number | % | Number | % | Number | % | Number | % | | | |
| Adult Male | 0 | | 0.0 | | 6 | 75.0% | 7.5 | 75.0% | | | |
| Adult Female | 0 | | 0.0 | | 2 | 25.0% | 2.5 | 25.0% | | | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Total | 0 | | 0.0 | | 8 | 100.0% | 10.0 | 100.0% | | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | IARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 8.3 | 1.4 | 9.7 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 5.3 | 1.1 | 6.4 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 4.4 | 1.1 | 5.6 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 13.5 | 0.0 | 13.5 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 15.4 | 0.0 | 15.4 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 14.5 | 0.0 | 14.5 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 15.8 | 2.4 | 18.2 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 7.5 | 0.0 | 7.5 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 9.0 | 0.0 | 9.0 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 1.8 | 0.0 | 1.8 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 1.8 | 0.0 | 1.8 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 1.8 | 0.0 | 1.8 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 10.5 | 0.0 | 10.5 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 8.4 | 0.0 | 8.4 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 8.4 | 0.0 | 8.4 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 10.0 | 0.0 | 10.0 |

Table 12. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Petersburg, 2008

CHAIN REFERRAL Total Referred Households 30
Surveyed Households 27
Sampling Fraction 90.0%
Sample Household Members 83

Estimated Household Members 92.2 2000 U.S. Census Estimated Native Population 388

HARVEST AND USE INFORMATION

| Percentage of Sample H | louse | holds: | Estimated Community Harvest | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 0.0% | 96.3% | Total Number Harvested | 0.0 | 7.8 |
| Hunted | 0.0% | 33.3% | Total Number Struck and Lost | 0.0 | 12.2 |
| Harvested | 0.0% | 14.8% | Total Number Taken | 0.0 | 20.0 |
| Received | 0.0% | 85.2% | | | |
| Gave Away | 0.0% | 59.3% | Number Harvested Per Capita | 0.00 | 0.02 |

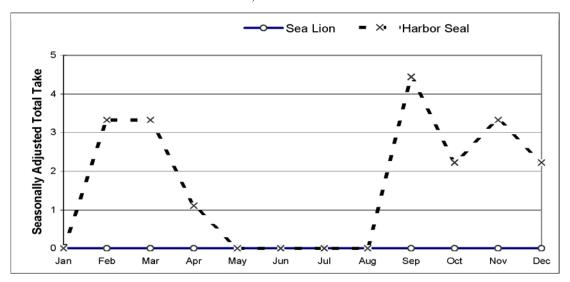
| SEA LION F | HARVE | ST BY | MONT | Н | | | | | | | | Į | Jnknown | |
|----------------|----------|---------|--------|---------|----------|---------|--------|--------|--------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HARV | VEST AND | TAKE BY | SAMPLE |) HOUSE | HOLDS (L | JNEXPAN | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | AND T | AKE BY | СОММ | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTED | HARVI | EST AND | TAKE I | ВҮ СОМ | MUNITY | (EXPAI | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
|----------------|--------|---------|---------|--------|----------|---------|---------|--------|--------|--------|-------|--------|-------|--------|
| REPORTED H | ARVES | T AND T | AKE BY | SAMPL | .ED HOL | JSEHOL | DS (UNI | EXPAND | DED) | | | | | |
| Harvest | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 7 |
| Struck & Lost | 0 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 1 | 0 | 11 |
| Total Take | 0 | 3 | 3 | 1 | 0 | 0 | 0 | 0 | 4 | 2 | 3 | 2 | 0 | 18 |
| ESTIMATED H | HARVES | T AND | TAKE BY | COMM | IUNITY (| EXPANI | DED) | | | | | | | |
| Harvest | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 0.0 | 2.2 | 1.1 | 0.0 | 7.8 |
| Struck & Lost | 0.0 | 2.2 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 2.2 | 1.1 | 1.1 | 0.0 | 12.2 |
| Total Take | 0.0 | 3.3 | 3.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 | 2.2 | 3.3 | 2.2 | 0.0 | 20.0 |
| ESTIMATED S | SEASON | IALLY A | DJUSTE | D HARV | /EST AN | ID TAKE | BY CO | MMUNIT | Y (EXP | ANDED) | | | | |
| Harvest | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 0.0 | 2.2 | 1.1 | | 7.8 |
| Struck & Lost | 0.0 | 2.2 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 2.2 | 1.1 | 1.1 | | 12.2 |
| Total Take | 0.0 | 3.3 | 3.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 | 2.2 | 3.3 | 2.2 | | 20.0 |
| Total Take (%) | 0.0% | 16.7% | 16.7% | 5.6% | 0.0% | 0.0% | 0.0% | 0.0% | 22.2% | 11.1% | 16.7% | 11.1% | | 100.0% |
| Cum. Take | 0.0 | 3.3 | 6.7 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 12.2 | 14.4 | 17.8 | 20.0 | | |
| Cum. Take (%) | 0.0% | 16.7% | 33.3% | 38.9% | 38.9% | 38.9% | 38.9% | 38.9% | 61.1% | 72.2% | 88.9% | 100.0% | | |

Table 12. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Petersburg, 2008

| | | Se | ea Lion | | Harbor Seal | | | | | |
|----------------------|---------|--------|---------|---------|-------------|--------|------------|-----------|--|--|
| | Reporte | d by | Communi | ty Est. | Reporte | ed by | Commu | nity Est. | | |
| | Samp | Sample | | ded) | Sam | ple | (Expanded) | | | |
| | Number | % | Number | % | Number | % | Number | % | | |
| Adult Male | 0 | | 0.0 | | 2 | 28.6% | 2.2 | 28.6% | | |
| Adult Female | 0 | | 0.0 | | 2 | 28.6% | 2.2 | 28.6% | | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Male | 0 | | 0.0 | | 3 | 42.9% | 3.3 | 42.9% | | |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Total | 0 | | 0.0 | | 7 | 100.0% | 7.8 | 100.0% | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | HARBOR SEAL | | | | |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|--|
| | | Struck/ | Total | | | Struck/ | Total | |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 22.4 | 2.6 | 25.0 | |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 4.5 | 4.5 | 9.0 | |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 15.2 | 1.3 | 16.4 | |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 13.6 | 1.1 | 14.7 | |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 19.5 | 2.4 | 21.9 | |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 11.8 | 4.3 | 16.2 | |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 23.9 | 9.3 | 33.2 | |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 20.7 | 7.2 | 27.9 | |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 16.0 | 22.0 | 38.0 | |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 45.0 | 18.0 | 63.0 | |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 9.6 | 7.2 | 16.8 | |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 10.3 | 8.3 | 18.6 | |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 30.0 | 22.0 | 52.0 | |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 10.0 | 11.0 | 21.0 | |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 9.0 | 17.0 | 26.0 | |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 7.8 | 12.2 | 20.0 | |

Table 13. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Saxman, 2008

| SAMPLING D | DESIGN: |
|-------------|---------|
| OLIVINIOEEE | -0041 |

Total Referred Households 8 CHAIN REFERRAL 5 Surveyed Households Sampling Fraction
Sample Household Members 62.5% 17 27.2 **Estimated Household Members** 302

2000 U.S. Census Estimated Native Population

HARVEST AND USE INFORMATION

| Percentage of Sample F | lousei | holds: | Estimated Community Harvest | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 0.0% | 60.0% | Total Number Harvested | 0.0 | 9.6 |
| Hunted | 0.0% | 40.0% | Total Number Struck and Lost | 0.0 | 0.0 |
| Harvested | 0.0% | 40.0% | Total Number Taken | 0.0 | 9.6 |
| Received | 0.0% | 40.0% | | | |
| Gave Away | 0.0% | 20.0% | Number Harvested Per Capita | 0.00 | 0.03 |

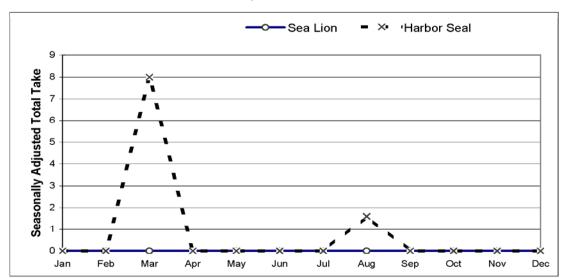
| SEA LION F | IARVE | ST BY | MONT | Н | | | | | | | | Į | Jnknown | |
|----------------|----------|---------|--------|---------|----------|---------|--------|--------|--------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | /EST AND | TAKE BY | SAMPLE |) HOUSE | HOLDS (L | JNEXPAN | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | AND T | AKE BY | сомми | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTED | HARVE | EST AND | TAKE I | ВҮ СОМ | MUNITY | (EXPAI | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR S | SEAL H | ARVE | ST BY | MON7 | ГН | | | | | | | l | Jnknown | |
|----------------|---------|---------|---------|--------|---------|---------|--------|--------|----------|--------|--------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVEST | T AND T | AKE BY | SAMPL | ED HOL | JSEHOL | DS (UN | EXPAN | DED) | | | | | |
| Harvest | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| ESTIMATED H | HARVES | T AND | TAKE BY | COMM | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.6 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.6 |
| ESTIMATED S | SEASON. | ALLY A | DJUSTE | D HARV | EST AN | ID TAKE | BY CO | MMUNIT | ΓΥ (EXP. | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | | 9.6 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | | 9.6 |
| Total Take (%) | 0.0% | 0.0% | 83.3% | 0.0% | 0.0% | 0.0% | 0.0% | 16.7% | 0.0% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | | |
| Cum. Take (%) | 0.0% | 0.0% | 83.3% | 83.3% | 83.3% | 83.3% | 83.3% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 13. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Saxman, 2008

| HARVEOI DI AGE AND GE | -/\ | | | | | | | | | |
|-----------------------|---------|-------|--------|---------|-------------|--------|----------------|--------|--|--|
| | | Sea | Lion | | Harbor Seal | | | | | |
| | Reporte | ed by | Commun | ty Est. | Reporte | ed by | Community Est. | | | |
| | Sam | ole | (Expan | ded) | Sam | ple | (Expanded) | | | |
| | Number | % | Number | % | Number | % | Number | % | | |
| Adult Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Adult Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Adult Unknown Sex | 0 | | 0.0 | | 5 | 83.3% | 8.0 | 83.3% | | |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 1 | 16.7% | 1.6 | 16.7% | | |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Total | 0 | | 0.0 | | 6 | 100.0% | 9.6 | 100.0% | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | HARBOR SEAL | | | | | |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|--|--|
| | | Struck/ | Total | | | Struck/ | Total | | |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 22.2 | 1.2 | 23.5 | | |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 5.6 | 0.0 | 5.6 | | |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 16.5 | 0.0 | 16.5 | | |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 15.9 | 0.0 | 15.9 | | |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 4.9 | 0.0 | 4.9 | | |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 11.0 | 0.0 | 11.0 | | |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 19.6 | 0.0 | 19.6 | | |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 45.6 | 1.9 | 47.5 | | |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 12.9 | 0.0 | 12.9 | | |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 25.5 | 3.0 | 28.5 | | |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 12.0 | 0.0 | 12.0 | | |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 5.0 | 0.0 | 5.0 | | |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 6.8 | 5.5 | 12.3 | | |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 20.2 | 0.0 | 20.2 | | |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 12.5 | 0.0 | 12.5 | | |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 9.6 | 0.0 | 9.6 | | |

Table 14. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Sitka, 2008

| SAMPL | .ING DESIGN | V: |
|---------|-------------|----|
| OLIAINI | | |

Total Referred Households 55 CHAIN REFERRAL 54 Surveyed Households Sampling Fraction 98.2% Sample Household Members 164

Estimated Household Members 167.2 2000 U.S. Census Estimated Native Population 2178

HARVEST AND USE INFORMATION

Percentage of Sample Households: Estimated Community Harvest Harbor Sea and Take (Expanded): Sea

Harbor <u>Seal</u> <u>Seal</u> Lion Lion Used 0.0% 77.8% **Total Number Harvested** 0.0 140.6 Hunted Total Number Struck and Lost 0.0% 63.0% 0.0 1.0 Harvested Total Number Taken 0.0 0.0% 57.4% 141.6 Received 0.0% 35.2% Gave Away Number Harvested Per Capita 0.06

SEA LION HARVEST BY MONTH Unknown Feb Dec Month Total Jan Mar Apr May Jun Aug Sep Oct Nov REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED) Harvest 0 0 0 0 0 0 0 0 0 0 0 Struck & Lost 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Total Take 0 0 0 0 0 Ω 0 Ω 0 0 ٥ 0 0 0 ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED) Harvest 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED) Harvest 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take (%) Cum. Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Cum. Take (%)

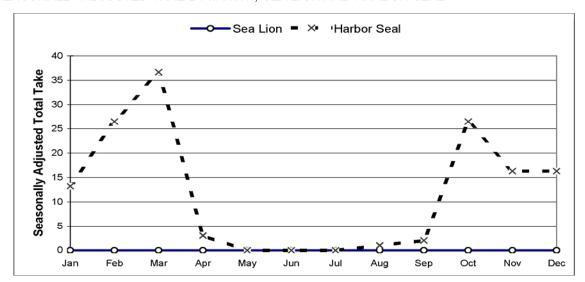
| HARBOR S | SEAL H | <i>IARVE</i> | STBY | MON7 | | | | | | | | l | Unknown | |
|----------------|--------|--------------|---------|---------|---------|---------|---------|--------|---------|-------|-------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | TAKE BY | SAMPL | .ED HOL | JSEHOL | DS (UNI | EXPAND | DED) | | | | | |
| Harvest | 13 | 25 | 36 | 3 | 0 | 0 | 0 | 1 | 2 | 26 | 16 | 16 | 0 | 138 |
| Struck & Lost | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Take | 13 | 26 | 36 | 3 | 0 | 0 | 0 | 1 | 2 | 26 | 16 | 16 | 0 | 139 |
| ESTIMATED H | HARVES | ST AND | TAKE B | Y COMM | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 13.2 | 25.5 | 36.7 | 3.1 | 0.0 | 0.0 | 0.0 | 1.0 | 2.0 | 26.5 | 16.3 | 16.3 | 0.0 | 140.6 |
| Struck & Lost | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| Total Take | 13.2 | 26.5 | 36.7 | 3.1 | 0.0 | 0.0 | 0.0 | 1.0 | 2.0 | 26.5 | 16.3 | 16.3 | 0.0 | 141.6 |
| ESTIMATEDS | SEASON | NALLY A | DJUSTE | ED HAR\ | /EST AN | ID TAKE | BY COI | ММИМІТ | Y (EXPA | NDED) | | | | |
| Harvest | 13.2 | 25.5 | 36.7 | 3.1 | 0.0 | 0.0 | 0.0 | 1.0 | 2.0 | 26.5 | 16.3 | 16.3 | | 140.6 |
| Struck & Lost | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 1.0 |
| Total Take | 13.2 | 26.5 | 36.7 | 3.1 | 0.0 | 0.0 | 0.0 | 1.0 | 2.0 | 26.5 | 16.3 | 16.3 | | 141.6 |
| Total Take (%) | 9.4% | 18.7% | 25.9% | 2.2% | 0.0% | 0.0% | 0.0% | 0.7% | 1.4% | 18.7% | 11.5% | 11.5% | | 100.0% |
| Cum. Take | 13.2 | 39.7 | 76.4 | 79.4 | 79.4 | 79.4 | 79.4 | 80.5 | 82.5 | 109.0 | 125.3 | 141.6 | | |
| Cum. Take (%) | 9.4% | 28.1% | 54.0% | 56.1% | 56.1% | 56.1% | 56.1% | 56.8% | 58.3% | 77.0% | 88.5% | 100.0% | | |

SOURCE: SAIFWC Household Surveys, 2009

Table 14. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Sitka, 2008

| | | Se | ea Lion | | | Hart | oor Seal | |
|----------------------|---------|------|---------|----------|----------|--------|----------|-----------|
| | Reporte | d by | Commun | ity Est. | Reported | d by | Commu | nity Est. |
| | Samp | ole | (Expan | ded) | Samp | le | (Expai | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 44 | 31.9% | 44.8 | 31.9% |
| Adult Female | 0 | | 0.0 | | 33 | 23.9% | 33.6 | 23.9% |
| Adult Unknown Sex | 0 | | 0.0 | | 1 | 0.7% | 1.0 | 0.7% |
| Juvenile Male | 0 | | 0.0 | | 29 | 21.0% | 29.5 | 21.0% |
| Juvenile Female | 0 | | 0.0 | | 13 | 9.4% | 13.2 | 9.4% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 1 | 0.7% | 1.0 | 0.7% |
| Pup Male | 0 | | 0.0 | | 9 | 6.5% | 9.2 | 6.5% |
| Pup Female | 0 | | 0.0 | | 2 | 1.4% | 2.0 | 1.4% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 5 | 3.6% | 5.1 | 3.6% |
| Female Unknown Age | 0 | | 0.0 | | 1 | 0.7% | 1.0 | 0.7% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 138 | 100.0% | 140.6 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | _ | | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|---|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 3.8 | 1.3 | 5.0 | | 1992 | 124.7 | 21.4 | 146.1 |
| 1993 | 0.0 | 1.1 | 1.1 | | 1993 | 109.3 | 20.6 | 129.9 |
| 1994 | 1.1 | 1.1 | 2.2 | | 1994 | 110.5 | 20.1 | 130.6 |
| 1995 | 0.0 | 0.0 | 0.0 | | 1995 | 93.8 | 6.3 | 100.0 |
| 1996 | 0.0 | 0.0 | 0.0 | | 1996 | 126.8 | 4.1 | 130.9 |
| 1997 | 0.0 | 0.0 | 0.0 | | 1997 | 150.6 | 3.7 | 154.3 |
| 1998 | 3.3 | 4.4 | 7.6 | | 1998 | 237.6 | 29.4 | 267.0 |
| 2000 | 0.0 | 0.0 | 0.0 | | 2000 | 276.8 | 41.1 | 317.8 |
| 2001 | 0.0 | 0.0 | 0.0 | | 2001 | 241.3 | 32.8 | 274.1 |
| 2002 | 6.0 | 0.0 | 6.0 | | 2002 | 169.7 | 19.3 | 189.0 |
| 2003 | 0.0 | 0.0 | 0.0 | | 2003 | 220.4 | 5.2 | 225.6 |
| 2004 | 0.0 | 0.0 | 0.0 | | 2004 | 141.2 | 19.3 | 160.5 |
| 2005 | 0.0 | 0.0 | 0.0 | | 2005 | 23.0 | 1.0 | 24.0 |
| 2006 | 0.0 | 0.0 | 0.0 | | 2006 | 141.2 | 19.3 | 160.5 |
| 2007 | 0.0 | 0.0 | 0.0 | | 2007 | 128.4 | 2.1 | 130.5 |
| 2008 | 0.0 | 0.0 | 0.0 | | 2008 | 140.6 | 1.0 | 141.6 |

Table 15. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Wrangell, 2008

CHAIN REFERRAL **Total Referred Households** 10 Surveyed Households 6 Sampling Fraction 60.0% Sample Household Members 15

16.7%

25.0 **Estimated Household Members** 2000 U.S. Census Estimated Native Population 550

HARVEST AND USE INFORMATION

Percentage of Sample Households: Estimated Community Harvest and Take (Expanded): Sea Harbor <u>Lion</u> Seal <u>Lion</u> <u>Seal</u> Used 0.0% 33.3% Total Number Harvested 33.3 Total Number Struck and Lost Hunted 0.0% 33.3% 8.3 Harvested 0.0% 33.3% Total Number Taken 0.0 41.7 Received 0.0% 0.0% Number Harvested Per Capita 0.00 Gave Away 0.0%

0.06

| SEA LION F | IARVE | ST BY | MON7 | Н | | | | | | | | Į | Jnknown | |
|----------------|----------|---------|--------|---------|----------|---------|--------|--------|--------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Арг | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | JEST AND | TAKE BY | SAMPLE | D HOUSE | HOLDS (L | JNEXPAN | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | AND T | AKE BY | СОММ | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTEE | HARVI | EST AND | TAKE I | ВҮ СОМ | MUNITY | (EXPAI | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR S | SEAL H | 'ARVE | ST BY | MONT | ГН | | | | | | | l | Jnknown | |
|----------------|--------|--------|---------|-------|----------|---------|---------|--------|--------|--------|-------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | TANDT | TAKE BY | SAMPL | .ED HOL | JSEHOL | DS (UNI | EXPAND | DED) | | | | | |
| Harvest | 0 | 0 | 8 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 3 | 0 | 20 |
| Struck & Lost | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Total Take | 0 | 0 | 13 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 3 | 0 | 25 |
| ESTIMATED H | HARVES | T AND | TAKE BY | COMM | IUNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 13.3 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 8.3 | 5.0 | 0.0 | 33.3 |
| Struck & Lost | 0.0 | 0.0 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 |
| Total Take | 0.0 | 0.0 | 21.7 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 8.3 | 5.0 | 0.0 | 41.7 |
| ESTIMATEDS | SEASON | ALLY A | DJUSTE | D HAR | /EST AN | ID TAKE | BY COI | имиліт | Y (EXP | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 13.3 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 8.3 | 5.0 | | 33.3 |
| Struck & Lost | 0.0 | 0.0 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 8.3 |
| Total Take | 0.0 | 0.0 | 21.7 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 8.3 | 5.0 | | 41.7 |
| Total Take (%) | 0.0% | 0.0% | 52.0% | 12.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 4.0% | 20.0% | 12.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 21.7 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 | 28.3 | 36.7 | 41.7 | | |
| Cum. Take (%) | 0.0% | 0.0% | 52.0% | 64.0% | 64.0% | 64.0% | 64.0% | 64.0% | 64.0% | 68.0% | 88.0% | 100.0% | | |

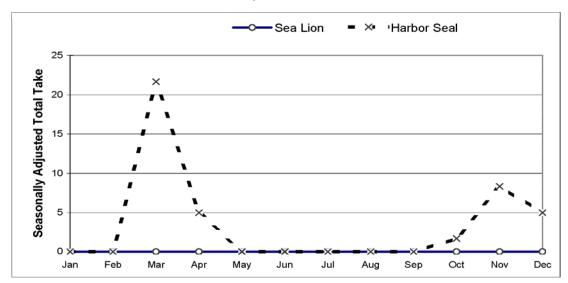
SOURCE: SAIFWC Household Surveys, (Numbers based on 2004 harvest estimates).

Table 15. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Wrangell, 2008

HARVEST BY AGE AND SEX

| THAT CLOT BY AGE AND GE | ` | Sea | Lion | | | Har | rbor Seal | |
|-------------------------|---------|-------|---------|---------|---------|--------|-----------|-----------|
| | Reporte | ed by | Communi | ty Est. | Reporte | ed by | Commur | nity Est. |
| | Samp | ole | (Expan | ded) | Sam | ple | (Expar | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 2 | 10.0% | 3.3 | 10.0% |
| Adult Female | 0 | | 0.0 | | 1 | 5.0% | 1.7 | 5.0% |
| Adult Unknown Sex | 0 | | 0.0 | | 1 | 5.0% | 1.7 | 5.0% |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 16 | 80.0% | 26.7 | 80.0% |
| Total | 0 | | 0.0 | | 20 | 100.0% | 33.3 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| Struck/ Total <u>Year Harvest Lost Take</u> |
|---|
| Year Harvest Lost Take |
| |
| 1992 6.0 8.0 14.0 |
| 1993 19.5 9.0 28.5 |
| 1994 101.0 27.0 128.0 |
| 1995 89.3 22.8 112.0 |
| 1996 79.3 22.2 101.5 |
| 1997 68.8 29.2 98.0 |
| 1998 174.0 30.0 204.0 |
| 2000 28.5 12.0 40.5 |
| 2001 16.0 29.0 45.0 |
| 2002 20.0 9.0 29.0 |
| 2003 68.0 18.7 86.7 |
| 2004 33.3 8.3 41.7 |
| 2005 33.3 8.3 41.7 |
| 2006 33.3 8.3 41.7 |
| 2007 33.3 8.3 41.7 |
| 2008 33.3 8.3 41.7 |
| |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAIFWC Household Surveys, 2000-2009. (Numbers based on 2004 harvest estimates).

Table 16. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Yakutat, 2008

SAMPLING DESIGN: CHAIN REFERRAL

Total Referred Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
119.4

2000 U.S. Census Estimated Native Population 375

HARVEST AND USE INFORMATION

Percentage of Sample Households: Estimated Community Harvest Sea Harbor and Take (Expanded): Sea Harbor <u>Lion</u> <u>Seal</u> <u>Lion</u> <u>Seal</u> 100.0% Total Number Harvested Used 0.0% 115.2 Hunted 0.0% 65.0% Total Number Struck and Lost 0.0 20.0 Harvested 0.0% Total Number Taken 57.5% 0.0 135.1 Received 0.0% 97.5%

Gave Away 0.0% 90.0% Number Harvested Per Capita 0.00 0.31

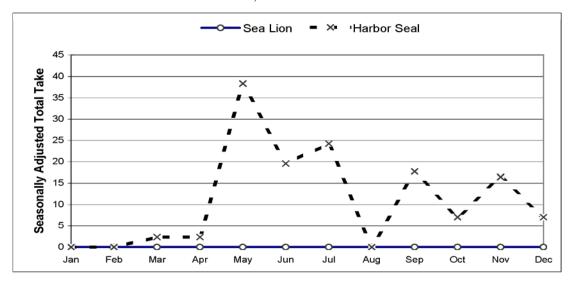
| SEA LION F | IARVE | ST BY | MONT | Н | | | | | | | | Į | Jnknown | |
|----------------|----------|---------|-------------|-------------|----------|---------|--------|---------|--------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HARV | /EST AND | TAKE BY | SAMPLE |) HOUSE | HOLDS (L | JNEXPAN | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | AND T | AKE BY | COMMU | JNITY (E | XPANDI | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTED | HARVE | EST AND | TAKE I | BY COM | IMUNITY | (EXPAI | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |
| HARBOR SI | EAL H | 4RVES | ST BY I | MONT | Н | | | | | | | Į | Jnknown | |

| HARBOR S | SEAL H | 'ARVE | ST BY | MON7 | ГН | | | | | | | Ų | Jnknown | |
|----------------|---------|---------|--------|--------|---------|---------|---------|--------|--------|--------|-------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVEST | T AND T | AKE BY | SAMPL | .ED HOL | JSEHOL | DS (UNI | EXPAND | DED) | | | | | |
| Harvest | 0 | 0 | 1 | 1 | 14 | 6 | 8 | 0 | 6 | 3 | 7 | 3 | 49 | 98 |
| Struck & Lost | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 0 | 2 | 0 | 0 | 0 | 6 | 17 |
| Total Take | 0 | 0 | 1 | 1 | 17 | 9 | 11 | 0 | 8 | 3 | 7 | 3 | 55 | 115 |
| ESTIMATED H | HARVES | T AND T | AKE BY | COMM | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 1.2 | 1.2 | 16.5 | 7.1 | 9.4 | 0.0 | 7.1 | 3.5 | 8.2 | 3.5 | 57.6 | 115.2 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 3.5 | 3.5 | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 | 7.1 | 20.0 |
| Total Take | 0.0 | 0.0 | 1.2 | 1.2 | 20.0 | 10.6 | 12.9 | 0.0 | 9.4 | 3.5 | 8.2 | 3.5 | 64.6 | 135.1 |
| ESTIMATED S | SEASON. | ALLY A | DJUSTE | D HAR\ | EST AN | ID TAKE | BY CO | MUNIT | Y (EXP | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 2.4 | 2.4 | 32.9 | 14.1 | 18.8 | 0.0 | 14.1 | 7.1 | 16.5 | 7.1 | | 115.2 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 | 5.4 | 5.4 | 0.0 | 3.6 | 0.0 | 0.0 | 0.0 | | 20.0 |
| Total Take | 0.0 | 0.0 | 2.4 | 2.4 | 38.3 | 19.5 | 24.2 | 0.0 | 17.7 | 7.1 | 16.5 | 7.1 | | 135.1 |
| Total Take (%) | 0.0% | 0.0% | 1.7% | 1.7% | 28.4% | 14.5% | 17.9% | 0.0% | 13.1% | 5.2% | 12.2% | 5.2% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 2.4 | 4.7 | 43.0 | 62.6 | 86.8 | 86.8 | 104.6 | 111.6 | 128.1 | 135.1 | | |
| Cum. Take (%) | 0.0% | 0.0% | 1.7% | 3.5% | 31.9% | 46.3% | 64.3% | 64.3% | 77.4% | 82.6% | 94.8% | 100.0% | | |

Table 16. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Yakutat, 2008

| | | S | ea Lion | | | Ha | arbor Seal | |
|----------------------|---------|------|---------|---------|---------|--------|------------|-----------|
| | Reporte | d by | Commun | ty Est. | Reporte | ed by | Commu | nity Est. |
| | Samp | ole | (Expan | ded) | Sam | ple | (Expai | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 12 | 12.2% | 14.1 | 12.2% |
| Adult Female | 0 | | 0.0 | | 4 | 4.1% | 4.7 | 4.1% |
| Adult Unknown Sex | 0 | | 0.0 | | 35 | 35.7% | 41.1 | 35.7% |
| Juvenile Male | 0 | | 0.0 | | 26 | 26.5% | 30.6 | 26.5% |
| Juvenile Female | 0 | | 0.0 | | 20 | 20.4% | 23.5 | 20.4% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 1 | 1.0% | 1.2 | 1.0% |
| Total | 0 | | 0.0 | | 98 | 100.0% | 115.2 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | IARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 248.0 | 61.3 | 309.3 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 568.4 | 57.4 | 625.8 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 417.1 | 35.0 | 452.1 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 615.5 | 79.6 | 695.1 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 640.3 | 124.1 | 764.5 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 491.5 | 139.9 | 631.5 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 289.0 | 72.3 | 361.3 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 193.3 | 56.8 | 250.1 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 208.8 | 36.2 | 245.0 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 110.3 | 27.2 | 137.5 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 251.7 | 51.5 | 303.2 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 147.7 | 27.1 | 174.8 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 140.2 | 24.1 | 164.3 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 137.3 | 33.8 | 171.0 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 118.6 | 15.9 | 134.4 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 115.2 | 20.0 | 135.1 |

Table 17. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Chenega Bay, 2008

CENSUS Total Native Households 15
Surveyed Households 7
Sampling Fraction 46.7%

Sample Household Members 17
Estimated Household Members 36.4
2000 U.S. Census Estimated Native Population 67

HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest

Sea Harbor and Take (Expanded): Sea Harbor <u>Lion</u> Seal Lion Seal Used **Total Number Harvested** 0.0% 85.7% 0.0 10.7 Hunted 0.0% 28.6% Total Number Struck and Lost 0.0 0.0 Harvested 0.0% 28.6% Total Number Taken 10.7 Received 0.0% 85.7% Gave Away Number Harvested Per Capita 0.0% 42.9% 0.00 0.16

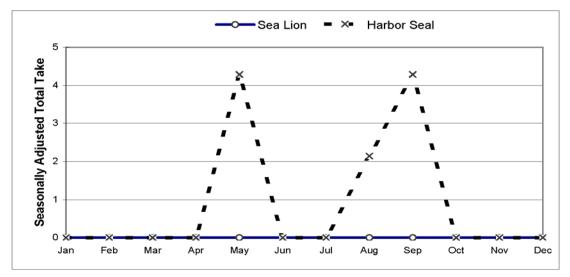
SEA LION HARVEST BY MONTH Unknown Jul Sep Oct Dec Total May Jun Aug Nov Month Jan Feb Apr REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED) 0 0 0 0 0 0 0 0 0 0 0 0 0 Harvest 0 0 Struck & Lost 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Total Take 0 0 0 0 0 0 0 0 0 ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED) Harvest 0.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED) Harvest 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take (%) Cum. Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Cum. Take (%)

| HARBOR S | SEAL H. | ARVE. | ST BY | MON7 | ГН | | | | | | | Į | Jnknown | |
|----------------|---------|---------|---------|--------|---------|---------|---------|-------|---------|--------|--------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVEST | Γ AND Τ | AKE BY | SAMPL | ED HO | JSEHOL | _DS (UN | EXPAN | DED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 5 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 5 |
| ESTIMATED H | HARVES | T AND T | TAKE BY | COMN | UNITY | (EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 0.0 | 0.0 | 2.1 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 10.7 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 4.3 | 4.3 | 0.0 | 0.0 | 2.1 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 10.7 |
| ESTIMATED S | SEASON | ALLY AI | DJUSTE | D HAR\ | /EST AN | ND TAKE | E BY CC | MMUNI | TY (EXF | PANDED |)) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 0.0 | 0.0 | 2.1 | 4.3 | 0.0 | 0.0 | 0.0 | | 10.7 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 0.0 | 0.0 | 2.1 | 4.3 | 0.0 | 0.0 | 0.0 | | 10.7 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 40.0% | 0.0% | 0.0% | 20.0% | 40.0% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 4.3 | 4.3 | 6.4 | 10.7 | 10.7 | 10.7 | 10.7 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 40.0% | 40.0% | 40.0% | 60.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 17. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chenega Bay, 2008

| | | Sea | a Lion | | Harbor Seal | | | | | |
|----------------------|---------|------|---------|---------|-------------|--------|--------|-----------|--|--|
| | Reporte | d by | Communi | ty Est. | Report | ed by | Commui | nity Est. | | |
| | Samp | ole | (Expand | ded) | Sam | ple | (Expa | nded) | | |
| | Number | % | Number | % | Number | % | Number | % | | |
| Adult Male | 0 | | 0.0 | | 1 | 20.0% | 2.1 | 20.0% | | |
| Adult Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Unknown Sex and Age | 0 | | 0.0 | | 4 | 80.0% | 8.6 | 80.0% | | |
| Total | 0 | | 0.0 | | 5 | 100.0% | 10.7 | 100.0% | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 6.9 | 1.2 | 8.1 | 1992 | 42.6 | 2.3 | 44.9 |
| 1993 | 11.1 | 6.6 | 17.7 | 1993 | 60.8 | 2.2 | 63.0 |
| 1994 | 6.6 | 0.0 | 6.6 | 1994 | 42.0 | 3.9 | 45.9 |
| 1995 | 6.6 | 0.0 | 6.6 | 1995 | 44.4 | 1.6 | 46.0 |
| 1996 | 2.0 | 0.0 | 2.0 | 1996 | 16.0 | 3.0 | 19.0 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 25.7 | 0.0 | 25.7 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 15.6 | 0.0 | 15.6 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 15.0 | 0.0 | 15.0 |
| 2001 | 1.2 | 0.0 | 1.2 | 2001 | 13.0 | 0.0 | 13.0 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 9.3 | 1.2 | 10.5 |
| 2003 | 0.0 | 2.4 | 2.4 | 2003 | 44.9 | 14.6 | 59.5 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 21.1 | 1.1 | 22.2 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 4.9 | 0.0 | 4.9 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 21.3 | 0.0 | 21.3 |
| 2007 | 2.9 | 0.0 | 2.9 | 2007 | 40.4 | 0.0 | 40.4 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 10.7 | 0.0 | 10.7 |

Table 18. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Cordova, 2008

CHAIN REFERRAL

Total Referred Households

Surveyed Households

Sampling Fraction

Sample Household Members

17

Sample Household Members 17
Estimated Household Members 17.0
2000 U.S. Census Estimated Native Population 368

HARVEST AND USE INFORMATION

| Percentage of Native Ho | useh | olds: | Estimated Community Harvest | | |
|-------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 0.0% | 87.5% | Total Number Harvested | 0.0 | 32.0 |
| Hunted | 0.0% | 87.5% | Total Number Struck and Lost | 0.0 | 4.0 |
| Harvested | 0.0% | 87.5% | Total Number Taken | 0.0 | 36.0 |
| Received | 0.0% | 12.5% | | | |
| Gave Away | 0.0% | 87.5% | Number Harvested Per Capita | 0.00 | 0.09 |

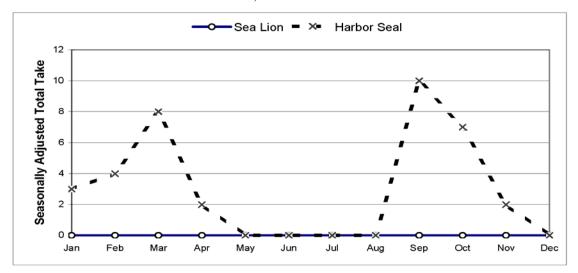
| SEA LION HARVEST BY MONTH | | | | | | | | | | | | | | |
|---------------------------|----------|---------|----------|---------|-----------|---------|--------|--------|---------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | TAKE B | Y SAMPLE | D HOUSE | EHOLDS (I | JNEXPAN | IDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | IARVES | T AND T | AKE BY | СОММ | UNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | JUSTE | HARV | EST ANI | O TAKE | BY COM | имиміт | Y (EXPA | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |
| LINDDODS | ГЛІ Ц | ADVE | CT DV I | MONT. | | | | | | | | | Inknown | |

| HARBOR S | HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|--------------------------------------|---------|---------|---------|--------|---------|--------|-------|---------|--------|--------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | ARVES | T AND | TAKE BY | ' SAMPI | ED HO | USEHOL | DS (UN | EXPAN | DED) | | | | | |
| Harvest | 3 | 4 | 7 | 2 | 0 | 0 | 0 | 0 | 7 | 7 | 2 | 0 | 0 | 32 |
| Struck & Lost | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 4 |
| Total Take | 3 | 4 | 8 | 2 | 0 | 0 | 0 | 0 | 10 | 7 | 2 | 0 | 0 | 36 |
| ESTIMATED H | HARVES | ST AND | TAKE B | COMM | UNITY | (EXPAN | DED) | | | | | | | |
| Harvest | 3.0 | 4.0 | 7.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 7.0 | 2.0 | 0.0 | 0.0 | 32.0 |
| Struck & Lost | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 |
| Total Take | 3.0 | 4.0 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 7.0 | 2.0 | 0.0 | 0.0 | 36.0 |
| ESTIMATEDS | SEASON | NALLY A | DJUSTE | D HAR | /EST A | ND TAKE | BY CO | MMUNI | TY (EXP | ANDED) | | | | |
| Harvest | 3.0 | 4.0 | 7.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 7.0 | 2.0 | 0.0 | | 32.0 |
| Struck & Lost | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | | 4.0 |
| Total Take | 3.0 | 4.0 | 8.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 | 7.0 | 2.0 | 0.0 | | 36.0 |
| Total Take (%) | 8.3% | 11.1% | 22.2% | 5.6% | 0.0% | 0.0% | 0.0% | 0.0% | 27.8% | 19.4% | 5.6% | 0.0% | | 100.0% |
| Cum. Take | 3.0 | 7.0 | 15.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 27.0 | 34.0 | 36.0 | 36.0 | | |
| Cum. Take (%) | 8.3% | 19.4% | 41.7% | 47.2% | 47.2% | 47.2% | 47.2% | 47.2% | 75.0% | 94.4% | 100.0% | 100.0% | | |

Table 18. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Cordova, 2008

| | | Se | ea Lion | | | rbor Seal | | |
|----------------------|---------|----------|---------|----------|---------|-----------|--------|-----------|
| | Reporte | d by | Commun | ity Est. | Reporte | d by | Commur | nity Est. |
| | Samp | Sample | | ded) | Samp | ole | (Expai | nded) |
| | Number | Number % | | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 11 | 34.4% | 11.0 | 34.4% |
| Adult Female | 0 | | 0.0 | | 4 | 12.5% | 4.0 | 12.5% |
| Adult Unknown Sex | 0 | | 0.0 | | 12 | 37.5% | 12.0 | 37.5% |
| Juvenile Male | 0 | | 0.0 | | 1 | 3.1% | 1.0 | 3.1% |
| Juvenile Female | 0 | | 0.0 | | 1 | 3.1% | 1.0 | 3.1% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 3 | 9.4% | 3.0 | 9.4% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 32 | 100.0% | 32.0 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | I | HARBO | R SEA | <u>L</u> |
|-------------|----------------|---------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 103.8 | 8.8 | 112.5 |
| 1993 | 1.5 | 0.0 | 1.5 | 1993 | 147.4 | 5.5 | 152.9 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 135.8 | 9.1 | 144.9 |
| 1995 | 0.0 | 1.0 | 1.0 | 1995 | 83.4 | 2.0 | 85.4 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 122.2 | 8.6 | 130.8 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 120.8 | 0.0 | 120.8 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 79.1 | 9.3 | 88.3 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 87.8 | 14.0 | 101.8 |
| 2001 | 3.5 | 0.0 | 3.5 | 2001 | 102.7 | 5.8 | 108.5 |
| 2002 | 3.5 | 0.0 | 3.5 | 2002 | 102.7 | 5.8 | 108.5 |
| 2003 | 2.7 | 0.0 | 2.7 | 2003 | 77.7 | 2.7 | 80.5 |
| 2004 | 2.7 | 0.0 | 2.7 | 2004 | 77.7 | 2.7 | 80.5 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 57.0 | 9.0 | 66.0 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 30.9 | 2.6 | 33.4 |
| 2007 | 1.0 | 0.0 | 1.0 | 2007 | 32.0 | 4.0 | 36.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 32.0 | 4.0 | 36.0 |
| | | | | | | | |

Table 19. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Nanwalek, 2008

CENSUS Total Native Households 47
Surveyed Households 46

Sampling Fraction 97.9%
Sample Household Members 185
Estimated Household Members 189.0

2000 U.S. Census Estimated Native Population 165

HARVEST AND USE INFORMATION

| Percentage of Native Ho | ouseh | olds: | Estimated Community Harvest | | | |
|-------------------------|-------------|-------------|------------------------------|-------------|-------------|--|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor | |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> | |
| Used | 23.9% | 89.1% | Total Number Harvested | 1.0 | 33.7 | |
| Hunted | 2.2% | 21.7% | Total Number Struck and Lost | 1.0 | 8.2 | |
| Harvested | 2.2% | 15.2% | Total Number Taken | 2.0 | 41.9 | |
| Received | 23.9% | 87.0% | | | | |
| Gave Away | 15.2% | 34.8% | Number Harvested Per Capita | 0.01 | 0.20 | |

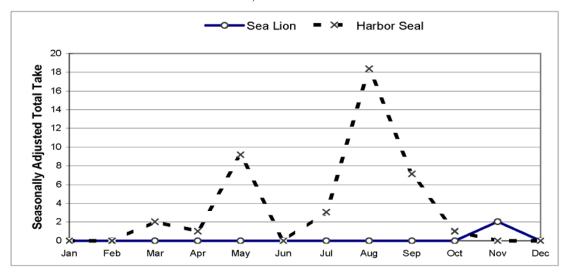
| SEA LION I | SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|-----------------------------------|----------|----------|---------|---------|---------|-------|--------|---------|-------|--------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AN | D TAKE B | Y SAMPLI | ED HOUS | EHOLDS | (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| ESTIMATED H | HARVES | T AND T | TAKE BY | СОММ | UNITY (| EXPANI | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 1.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 1.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HARV | EST AN | D TAKE | BY CO | имиліт | Y (EXPA | ANDED |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | | 1.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | | 1.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | | 2.0 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | | |

| HARBOR S | HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|--------------------------------------|---------|---------|--------|----------|---------|--------|-------|---------|--------|--------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | AKE BY | SAMPL | ED HO | JSEHOL | DS (UN | EXPAN | DED) | | | | | |
| Harvest | 0 | 0 | 2 | 1 | 8 | 0 | 3 | 13 | 5 | 1 | 0 | 0 | 0 | 33 |
| Struck & Lost | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 8 |
| Total Take | 0 | 0 | 2 | 1 | 9 | 0 | 3 | 18 | 7 | 1 | 0 | 0 | 0 | 41 |
| ESTIMATED H | HARVES | T AND T | TAKE BY | COMN | IUNITY (| (EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 2.0 | 1.0 | 8.2 | 0.0 | 3.1 | 13.3 | 5.1 | 1.0 | 0.0 | 0.0 | 0.0 | 33.7 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 5.1 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.2 |
| Total Take | 0.0 | 0.0 | 2.0 | 9.2 | 9.2 | 0.0 | 3.1 | 18.4 | 7.2 | 1.0 | 0.0 | 0.0 | 0.0 | 41.9 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HAR\ | /EST AN | ND TAKE | BY CC | ммилі | TY (EXF | PANDED |)) | | | |
| Harvest | 0.0 | 0.0 | 2.0 | 1.0 | 8.2 | 0.0 | 3.1 | 13.3 | 5.1 | 1.0 | 0.0 | 0.0 | | 33.7 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 5.1 | 2.0 | 0.0 | 0.0 | 0.0 | | 8.2 |
| Total Take | 0.0 | 0.0 | 2.0 | 1.0 | 9.2 | 0.0 | 3.1 | 18.4 | 7.2 | 1.0 | 0.0 | 0.0 | | 41.9 |
| Total Take (%) | 0.0% | 0.0% | 4.9% | 2.4% | 22.0% | 0.0% | 7.3% | 43.9% | 17.1% | 2.4% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 2.0 | 3.1 | 12.3 | 12.3 | 15.3 | 33.7 | 40.9 | 41.9 | 41.9 | 41.9 | | |
| Cum. Take (%) | 0.0% | 0.0% | 4.9% | 7.3% | 29.3% | 29.3% | 36.6% | 80.5% | 97.6% | 100.0% | 100.0% | 100.0% | | |

Table 19. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Nanwalek, 2008

| | | 5 | Sea Lion | | | | Harbor Seal | | | | | |
|----------------------|--------|-------------|----------|-----------|-----------|-----|-------------|--------|-------|------------|--|--|
| | Report | Reported by | | Commu | nity Est. | _ | Reporte | ed by | Comm | unity Est. | | |
| | Sam | Sample | | (Expanded | | Sar | | ple | (Exp | anded) | | |
| | Number | % | N | umber | % | ī | Number | % | Numbe | r % | | |
| Adult Male | 0 | 0.0% | | 0.0 | 0.0% | _ | 4 | 12.1% | 4. | 1 12.1% | | |
| Adult Female | 1 | 100.0% | | 1.0 | 100.0% | | 3 | 9.1% | 3. | 1 9.1% | | |
| Adult Unknown Sex | 0 | 0.0% | | 0.0 | 0.0% | | 1 | 3.0% | 1. | 0 3.0% | | |
| Juvenile Male | 0 | 0.0% | | 0.0 | 0.0% | | 2 | 6.1% | 2. | 0 6.1% | | |
| Juvenile Female | 0 | 0.0% | | 0.0 | 0.0% | | 1 | 3.0% | 1. | 0 3.0% | | |
| Juvenile Unknown Sex | 0 | 0.0% | | 0.0 | 0.0% | | 11 | 33.3% | 11. | 2 33.3% | | |
| Pup Male | 0 | 0.0% | | 0.0 | 0.0% | | 3 | 9.1% | 3. | 1 9.1% | | |
| Pup Female | 0 | 0.0% | | 0.0 | 0.0% | | 0 | 0.0% | 0. | 0.0% | | |
| Pup Unknown Sex | 0 | 0.0% | | 0.0 | 0.0% | | 8 | 24.2% | 8. | 2 24.2% | | |
| Male Unknown Age | 0 | 0.0% | | 0.0 | 0.0% | | 0 | 0.0% | 0. | 0.0% | | |
| Female Unknown Age | 0 | 0.0% | | 0.0 | 0.0% | | 0 | 0.0% | 0. | 0.0% | | |
| Unknown Sex and Age | 0 | 0.0% | _ | 0.0 | 0.0% | | 0 | 0.0% | 0. | 0.0% | | |
| Total | 1 | 100.0% | | 1.0 | 100.0% | | 33 | 100.0% | 33. | 7 100.0% | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | ARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 6.3 | 0.0 | 6.3 | 1992 | 27.9 | 0.0 | 27.9 |
| 1993 | 8.5 | 1.1 | 9.5 | 1993 | 33.9 | 3.2 | 37.1 |
| 1994 | 1.2 | 2.3 | 3.5 | 1994 | 29.0 | 4.6 | 33.7 |
| 1995 | 9.2 | 0.0 | 9.2 | 1995 | 23.6 | 0.0 | 23.6 |
| 1996 | 4.3 | 1.1 | 5.3 | 1996 | 22.4 | 0.0 | 22.4 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 20.2 | 0.0 | 20.2 |
| 1998 | 2.1 | 0.0 | 2.1 | 1998 | 30.9 | 1.0 | 31.9 |
| 2000 | 6.5 | 0.0 | 6.5 | 2000 | 52.9 | 3.9 | 56.8 |
| 2001 | 3.7 | 0.0 | 3.7 | 2001 | 42.3 | 1.2 | 43.5 |
| 2002 | 2.0 | 0.0 | 2.0 | 2002 | 40.0 | 12.0 | 52.0 |
| 2003 | 3.0 | 2.0 | 5.0 | 2003 | 30.0 | 3.0 | 33.0 |
| 2004 | 2.1 | 0.0 | 2.1 | 2004 | 30.2 | 12.5 | 42.7 |
| 2005 | 1.1 | 0.0 | 1.1 | 2005 | 20.3 | 6.4 | 26.7 |
| 2006 | 1.0 | 0.0 | 1.0 | 2006 | 23.6 | 5.1 | 28.7 |
| 2007 | 2.4 | 2.4 | 4.7 | 2007 | 22.3 | 5.9 | 28.2 |
| 2008 | 1.0 | 1.0 | 2.0 | 2008 | 33.7 | 8.2 | 41.9 |

Table 20. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Port Graham, 2008

CENSUS Total Native Households 44 32 Surveyed Households Sampling Fraction 72.7%

Sample Household Members 74 101.8 **Estimated Household Members** 2000 U.S. Census Estimated Native Population 151

HARVEST AND USE INFORMATION

| Percentage of Native Ho | ouseh | olds: | Estimated Community Harvest | | |
|-------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 18.8% | 71.9% | Total Number Harvested | 2.8 | 16.5 |
| Hunted | 3.1% | 25.0% | Total Number Struck and Lost | 0.0 | 5.5 |
| Harvested | 3.1% | 15.6% | Total Number Taken | 2.8 | 22.0 |
| Received | 15.6% | 71.9% | | | |
| Gave Away | 6.3% | 40.6% | Number Harvested Per Capita | 0.02 | 0.11 |

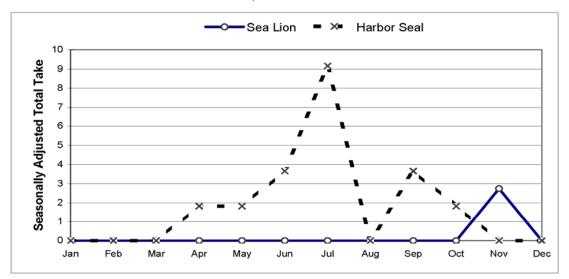
| SEA LION I | HARVE | EST BY | ∕ MON | TH | | | | | | | | Į | Jnknown | |
|----------------|---------|----------|---------|---------|---------|---------|-------|--------|--------|-------|--------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AN | D TAKE B | Y SAMPL | ED HOUS | EHOLDS | (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| ESTIMATED H | HARVES | T AND T | TAKE BY | СОММ | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 0.0 | 0.0 | 2.8 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 0.0 | 0.0 | 2.8 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HARV | EST AN | ID TAKE | BY CO | ММИМІТ | Y (EXP | ANDED |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 0.0 | | 2.8 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 0.0 | | 2.8 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 2.8 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | | |
| HARBOR S | EAL H | ARVE. | ST BY | MONT | Н | | | | | | | | Jnknown | |

| HARBOR S | EAL H | ARVE | SIBY | MONI | Н | | | | | | | Ų | Jnknown | |
|----------------|--------|---------|--------|--------|----------|---------|--------|--------|---------|--------|--------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | Γ AND Τ | AKE BY | SAMPL | ED HO | JSEHOL | DS (UN | EXPANI | DED) | | | | | |
| Harvest | 0 | 0 | 0 | 1 | 1 | 2 | 5 | 0 | 2 | 1 | 0 | 0 | 0 | 12 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| Total Take | 0 | 0 | 0 | 1 | 1 | 2 | 5 | 0 | 2 | 1 | 0 | 0 | 4 | 16 |
| ESTIMATED H | HARVES | T AND T | AKE BY | COMM | IUNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 2.8 | 6.9 | 0.0 | 2.8 | 1.4 | 0.0 | 0.0 | 0.0 | 16.5 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | 5.5 |
| Total Take | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 2.8 | 6.9 | 0.0 | 2.8 | 1.4 | 0.0 | 0.0 | 5.5 | 22.0 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HAR\ | /EST AN | ID TAKE | BY CO | MMUNI | TY (EXF | ANDED |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 2.8 | 6.9 | 0.0 | 2.8 | 1.4 | 0.0 | 0.0 | | 16.5 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.9 | 2.3 | 0.0 | 0.9 | 0.5 | 0.0 | 0.0 | | 5.5 |
| Total Take | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 3.7 | 9.2 | 0.0 | 3.7 | 1.8 | 0.0 | 0.0 | | 22.0 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 8.3% | 8.3% | 16.7% | 41.7% | 0.0% | 16.7% | 8.3% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 1.8 | 3.7 | 7.3 | 16.5 | 16.5 | 20.2 | 22.0 | 22.0 | 22.0 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 8.3% | 16.7% | 33.3% | 75.0% | 75.0% | 91.7% | 100.0% | 100.0% | 100.0% | | |

Table 20. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Graham, 2008

| | | Se | a Lion | | | Harbo | or Seal | |
|----------------------|---------|--------|--------|-----------|--------|--------|---------|-----------|
| | Reporte | ed by | Commur | nity Est. | Report | ed by | Commu | nity Est. |
| | Sam | ple | (Expar | nded) | Sam | ple | (Expa | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | 0.0% | 0.0 | 0.0% | 4 | 33.3% | 5.5 | 33.3% |
| Adult Female | 1 | 50.0% | 1.4 | 50.0% | 0 | 0.0% | 0.0 | 0.0% |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 2 | 16.7% | 2.8 | 16.7% |
| Juvenile Male | 1 | 50.0% | 1.4 | 50.0% | 3 | 25.0% | 4.1 | 25.0% |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 1 | 8.3% | 1.4 | 8.3% |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 1 | 8.3% | 1.4 | 8.3% |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | 1 | 8.3% | 1.4 | 8.3% |
| Total | 2 | 100.0% | 2.8 | 100.0% | 12 | 100.0% | 16.5 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | IARBO | R SEA | L |
|-------------|----------------|---------|-------------|-------------|----------------|---------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> |
| 1992 | 3.5 | 1.2 | 4.7 | 1992 | 36.2 | 4.7 | 40.8 |
| 1993 | 1.1 | 0.0 | 1.1 | 1993 | 30.6 | 3.2 | 33.7 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 15.5 | 5.2 | 20.7 |
| 1995 | 10.0 | 2.0 | 12.0 | 1995 | 23.0 | 0.0 | 23.0 |
| 1996 | 1.1 | 0.0 | 1.1 | 1996 | 15.5 | 2.2 | 17.7 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 15.8 | 3.2 | 19.0 |
| 1998 | 1.2 | 0.0 | 1.2 | 1998 | 52.3 | 3.6 | 55.9 |
| 2000 | 1.7 | 3.4 | 5.0 | 2000 | 40.2 | 1.7 | 41.9 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 39.4 | 8.3 | 47.6 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 39.4 | 8.3 | 47.6 |
| 2003 | 1.0 | 0.0 | 1.0 | 2003 | 45.0 | 0.0 | 45.0 |
| 2004 | 6.9 | 5.6 | 12.5 | 2004 | 44.4 | 2.8 | 47.2 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 63.5 | 8.5 | 71.9 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 51.0 | 0.0 | 51.0 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 7.8 | 1.6 | 9.3 |
| 2008 | 2.8 | 0.0 | 2.8 | 2008 | 16.5 | 5.5 | 22.0 |

Table 21. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Seldovia, 2008

CHAIN REFERRAL Total Referred Households 4
Surveyed Households 3
Sampling Fraction 75.0%
Sample Household Members 5

Estimated Household Members 6.7
2000 U.S. Census Estimated Native Population 66

HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest

Harbor and Take (Expanded): Sea Sea Harbor Seal Lion Lion <u>Seal</u> 0.0% Used 66.7% **Total Number Harvested** 0.0 1.3 Total Number Struck and Lost Hunted 0.0% 66.7% 0.0 0.0 Total Number Taken Harvested 0.0% 0.0 33.3% 1.3 Received 0.0% 66.7% Gave Away Number Harvested Per Capita 0.0% 66.7% 0.00 0.02

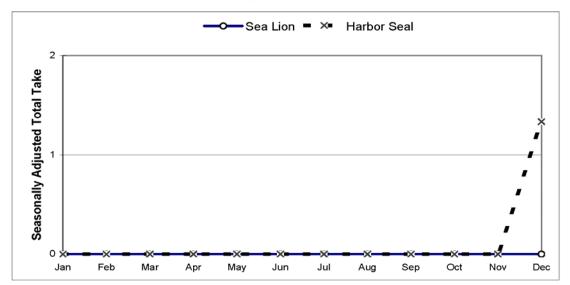
| SEA LION F | IARVE | ST BY | MON7 | Н | | | | | | | | Į | Jnknown | |
|----------------|----------|---------|----------|---------|----------|---------|--------|-------|---------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | /EST AND | TAKE B | Y SAMPLE | D HOUSE | EHOLDS (| UNEXPAN | IDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | T AND T | AKE BY | СОММ | JNITY (E | EXPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY AD | JUSTE | HARV | EST ANI | D TAKE | BY COM | MUNIT | Y (EXPA | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR S | EAL H | ARVE | ST BY | MONT | Н | | | | | | | Į | Jnknown | |
|----------------|--------|---------|---------|--------|---------|--------|---------|--------|--------|--------|------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | AKE BY | SAMPL | ED HOL | JSEHOL | DS (UNI | EXPAND | DED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| ESTIMATED H | HARVES | T AND 1 | TAKE BY | COMM | UNITY (| EXPANI | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 1.3 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 1.3 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HARV | EST AN | D TAKE | BY CO | имиліт | Y (EXP | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | | 1.3 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | | 1.3 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | | |

Table 21. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Seldovia, 2008

| | | Se | a Lion | | | Harbo | or Seal | |
|----------------------|---------|------|--------|---------|--------|--------|---------|-----------|
| | Reporte | d by | Commun | ty Est. | Report | ed by | Commu | nity Est. |
| | Samp | ole | (Expan | ded) | Sam | ple | (Expa | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 1 | 100.0% | 1.3 | 100.0% |
| Adult Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 1 | 100.0% | 1.3 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | IARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|---------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 12.4 | 0.0 | 12.4 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 7.9 | 4.9 | 12.8 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 8.0 | 0.0 | 8.0 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 4.0 | 0.0 | 4.0 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 3.0 | 0.0 | 3.0 |
| 1997 | 1.7 | 0.0 | 1.7 | 1997 | 2.8 | 2.8 | 5.5 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 3.0 | 0.0 | 3.0 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 2.0 | 0.0 | 2.0 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 3.0 | 0.0 | 3.0 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 0.0 | 0.0 | 0.0 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 0.0 | 0.0 | 0.0 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 1.0 | 1.0 | 2.0 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 1.0 | 1.0 | 2.0 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 2.7 | 0.0 | 2.7 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 2.0 | 0.0 | 2.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 1.3 | 0.0 | 1.3 |

Table 22. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Seward, 2008

CHAIN REFERRAL Total Native Households 7

Surveyed Households 2
Sampling Fraction 28.6%
Sample Household Members 7

Estimated Household Members 24.5 2000 U.S. Census Estimated Native Population 592

HARVEST AND USE INFORMATION

Percentage of Sample Households: Estimated Community Harvest

Harbor and Take (Expanded): Harbor Sea Sea Lion Seal Lion Seal Total Number Harvested Used 0.0% 100.0% 0.0 0.0 Hunted Total Number Struck and Lost 0.0% 0.0% 0.0 0.0 Harvested 0.0% Total Number Taken 0.0 0.0% 0.0 Received 100.0% 0.0% Gave Away Number Harvested Per Capita 0.0% 50.0% 0.00 0.00

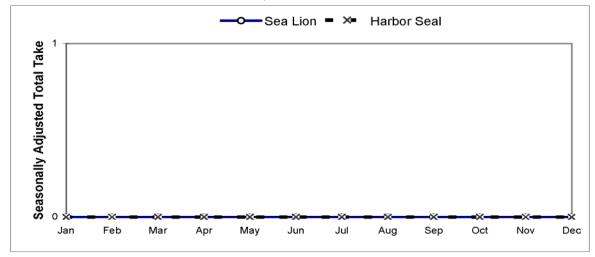
SEA LION HARVEST BY MONTH Unknown Feb Sep Oct Nov Dec Month Total Jan Mar Apr May Jun Aug REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED) 0 0 0 0 0 0 0 0 0 0 0 0 0 Harvest 0 Struck & Lost 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Total Take 0 0 0 0 0 0 0 0 0 0 0 ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED) Harvest 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Harvest 0.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take (%) 0.0 Cum. Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Cum. Take (%)

| HARBOR SI | EAL H | ARVES | ST BY I | MONT | Н | | | | | | | Į | Jnknown | |
|----------------|--------|---------|---------|--------|----------|--------|--------|---------|--------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HA | ARVEST | AND TA | KE BY | SAMPLE | D HOUS | SEHOLD | S (UNE | XPANDE | ED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES1 | T AND T | AKE BY | COMMU | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTED | HARVE | EST AND | TAKE | BY COM | IMUNITY | (EXPAI | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

Table 22. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Seward, 2008

| | | Sea | a Lion | | | Harbo | r Seal | |
|----------------------|---------|------|---------|---------|---------|-------|---------|---------|
| | Reporte | d by | Communi | ty Est. | Reporte | d by | Communi | ty Est. |
| | Samp | ole | (Expan | ded) | Samp | ole | (Expand | ded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Adult Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Male Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Female Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Total | 0 | | 0.0 | | 0 | | 0.0 | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | HARBO | R SEA | L |
|-------------|----------------|---------|-------------|------|----------------|---------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> | Year | <u>Harvest</u> | Lost | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 2.0 | 0.0 | 2.0 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 0.0 | 0.0 | 0.0 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 5.0 | 0.0 | 5.0 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 10.9 | 5.5 | 16.4 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 5.6 | 0.0 | 5.6 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 0.0 | 0.0 | 0.0 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 0.0 | 0.0 | 0.0 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 4.0 | 0.0 | 4.0 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 0.0 | 0.0 | 0.0 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 3.5 | 0.0 | 3.5 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 0.0 | 0.0 | 0.0 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 0.0 | 0.0 | 0.0 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 0.0 | 0.0 | 0.0 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 0.0 | 0.0 | 0.0 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 0.0 | 0.0 | 0.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 0.0 | 0.0 | 0.0 |

Table 23. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Tatitlek, 2008

CENSUS

Total Native Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
sus Estimated Native Population

22
90.9%
62.7
62.7

2000 U.S. Census Estimated Native Population HARVEST AND USE INFORMATION

| Percentage of Native Households: | | | Estimated Community Harvest | | |
|----------------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 55.0% | 90.0% | Total Number Harvested | 16.5 | 125.4 |
| Hunted | 20.0% | 30.0% | Total Number Struck and Lost | 3.3 | 15.4 |
| Harvested | 20.0% | 30.0% | Total Number Taken | 19.8 | 140.8 |
| Received | 45.0% | 80.0% | | | |
| Gave Away | 45.0% | 75.0% | Number Harvested Per Capita | 0.18 | 1.38 |

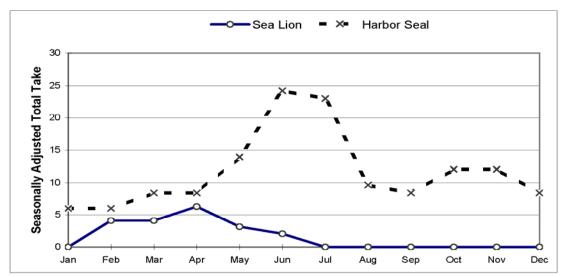
| SEA LION I | HARVE | EST B | Y MON | 'TH | | | | | | | | Į | Jnknown | |
|----------------|---------|-----------|----------|---------|---------|--------|---------|--------|---------|--------|--------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AN | ID TAKE E | BY SAMPL | ED HOUS | SEHOLDS | (UNEXP | ANDED) | | | | | | | |
| Harvest | 0 | 2 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 15 |
| Struck & Lost | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total Take | 0 | 2 | 2 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 18 |
| ESTIMATED H | HARVES | T AND | TAKE B | Y COMM | IUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 0.0 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 16.5 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 |
| Total Take | 0.0 | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 19.8 |
| ESTIMATED S | SEASON | IALLY A | DJUSTE | D HAR | /EST A | ND TAK | E BY CC | илими | TY (EXF | PANDED |) | | | |
| Harvest | 0.0 | 4.1 | 4.1 | 4.1 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 16.5 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 3.3 |
| Total Take | 0.0 | 4.1 | 4.1 | 6.3 | 3.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 19.8 |
| Total Take (%) | 0.0% | 20.8% | 20.8% | 31.9% | 16.0% | 10.4% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 4.1 | 8.3 | 14.6 | 17.7 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | 19.8 | | |
| Cum. Take (%) | 0.0% | 20.8% | 41.7% | 73.6% | 89.6% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

| HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|--------------------------------------|--------|---------|---------|---------|---------|---------|--------|-------|---------|-------|-------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | Γ AND Ί | TAKE BY | ′ SAMPI | ED HO | JSEHOL | DS (UN | EXPAN | DED) | | | | | |
| Harvest | 5 | 5 | 7 | 7 | 9 | 15 | 14 | 8 | 7 | 10 | 10 | 7 | 10 | 114 |
| Struck & Lost | 0 | 0 | 0 | 0 | 2 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 14 |
| Total Take | 5 | 5 | 7 | 7 | 11 | 19 | 18 | 8 | 7 | 10 | 10 | 7 | 14 | 128 |
| ESTIMATED H | HARVES | T AND | TAKE B | Y COMM | UNITY | (EXPAN | DED) | | | | | | | |
| Harvest | 5.5 | 5.5 | 7.7 | 7.7 | 9.9 | 16.5 | 15.4 | 8.8 | 7.7 | 11.0 | 11.0 | 7.7 | 11.0 | 125.4 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 4.4 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 | 15.4 |
| Total Take | 5.5 | 5.5 | 7.7 | 12.1 | 12.1 | 20.9 | 19.8 | 8.8 | 7.7 | 11.0 | 11.0 | 7.7 | 15.4 | 140.8 |
| ESTIMATED S | EASON | ALLY A | DJUSTE | D HAR | /EST AI | ID TAKE | BY CC | имим | TY (EXP | ANDED |) | | | |
| Harvest | 6.0 | 6.0 | 8.4 | 8.4 | 10.9 | 18.1 | 16.9 | 9.6 | 8.4 | 12.1 | 12.1 | 8.4 | | 125.4 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 6.2 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 15.4 |
| Total Take | 6.0 | 6.0 | 8.4 | 8.4 | 13.9 | 24.2 | 23.0 | 9.6 | 8.4 | 12.1 | 12.1 | 8.4 | | 140.8 |
| Total Take (%) | 4.3% | 4.3% | 6.0% | 6.0% | 9.9% | 17.2% | 16.4% | 6.9% | 6.0% | 8.6% | 8.6% | 6.0% | | 100.0% |
| Cum. Take | 6.0 | 12.1 | 20.5 | 28.9 | 42.9 | 67.1 | 90.2 | 99.8 | 108.2 | 120.3 | 132.4 | 140.8 | | |
| Cum. Take (%) | 4.3% | 8.6% | 14.6% | 20.6% | 30.4% | 47.7% | 64.0% | 70.9% | 76.9% | 85.4% | 94.0% | 100.0% | | |

Table 23. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Tatitlek, 2008

| | | S | Sea Lion | | | Ha | larbor Seal | | |
|----------------------|--------|--------|----------|-----------|--------|--------|-------------|-----------|--|
| | Report | ed by | Commur | nity Est. | Report | ed by | Commu | nity Est. | |
| | Sam | ple | (Expai | nded) | San | nple | (Expa | nded) | |
| | Number | % | Number | % | Number | % | Number | % | |
| Adult Male | 1 | 6.7% | 1.1 | 6.7% | 16 | 14.0% | 17.6 | 14.0% | |
| Adult Female | 1 | 6.7% | 1.1 | 6.7% | 14 | 12.3% | 15.4 | 12.3% | |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 4 | 3.5% | 4.4 | 3.5% | |
| Juvenile Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 1 | 0.9% | 1.1 | 0.9% | |
| Juvenile Unknown Sex | 6 | 40.0% | 6.6 | 40.0% | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 9 | 7.9% | 9.9 | 7.9% | |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 6 | 5.3% | 6.6 | 5.3% | |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 15 | 13.2% | 16.5 | 13.2% | |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | |
| Unknown Sex and Age | 7 | 46.7% | 7.7 | 46.7% | 49 | 43.0% | 53.9 | 43.0% | |
| Total | 15 | 100.0% | 16.5 | 100.0% | 114 | 100.0% | 125.4 | 100.0% | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | HARBO | | | | | L |
|-------------|----------------|-------------|-------------|--|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 8.3 | 4.2 | 12.5 | | 1992 | 152.9 | 17.7 | 170.6 |
| 1993 | 4.1 | 1.0 | 5.2 | | 1993 | 110.8 | 15.5 | 126.4 |
| 1994 | 8.8 | 7.4 | 16.2 | | 1994 | 145.9 | 30.9 | 176.8 |
| 1995 | 2.6 | 0.0 | 2.6 | | 1995 | 46.1 | 2.6 | 48.7 |
| 1996 | 5.0 | 0.0 | 5.0 | | 1996 | 90.8 | 3.8 | 94.6 |
| 1997 | 2.7 | 1.4 | 4.1 | | 1997 | 97.2 | 6.8 | 104.0 |
| 1998 | 15.1 | 6.8 | 21.9 | | 1998 | 171.1 | 19.2 | 190.2 |
| 2000 | 1.9 | 0.0 | 1.9 | | 2000 | 46.3 | 1.9 | 48.2 |
| 2001 | 6.3 | 0.0 | 6.3 | | 2001 | 61.6 | 4.7 | 66.3 |
| 2002 | 0.0 | 0.0 | 0.0 | | 2002 | 13.1 | 1.9 | 14.9 |
| 2003 | 12.4 | 1.1 | 13.5 | | 2003 | 91.1 | 0.0 | 91.1 |
| 2004 | 26.3 | 10.3 | 36.6 | | 2004 | 90.2 | 23.1 | 113.3 |
| 2005 | 39.0 | 9.1 | 48.1 | | 2005 | 137.8 | 16.9 | 154.7 |
| 2006 | 16.0 | 8.0 | 24.0 | | 2006 | 218.7 | 16.0 | 234.7 |
| 2007 | 41.3 | 7.9 | 49.2 | | 2007 | 133.4 | 19.1 | 152.5 |
| 2008 | 16.5 | 3.3 | 19.8 | | 2008 | 125.4 | 15.4 | 140.8 |

Table 24. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Valdez, 2008

SAMPLING DESIGN: CHAIN REFERRAL

Stand Sample Households

Sample Household Members

Stand Members

4

Stand Members

240

240

Estimated Household Members 24.0 2000 U.S. Census Estimated Native Population 410

HARVEST AND USE INFORMATION

Percentage of Sample Households: Estimated Community Harvest

Harbor and Take (Expanded): Sea Sea Harbor **Lion** <u>Seal</u> **Lion** <u>Seal</u> Used 0.0% 100.0% **Total Number Harvested** 0.0 24.0 Total Number Struck and Lost Hunted 0.0% 100.0% 0.0 0.0 Total Number Taken 0.0 Harvested 0.0% 100.0% 24.0 Received 0.0% 100.0% Gave Away Number Harvested Per Capita 0.00 0.0% 100.0% 0.06

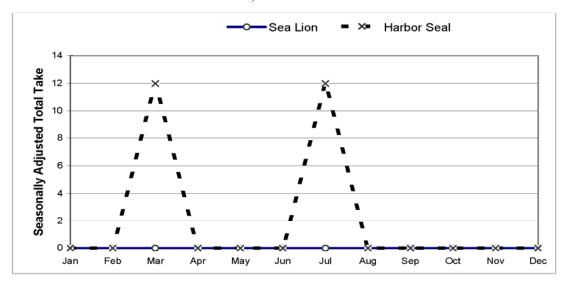
SEA LION HARVEST BY MONTH Unknown Feb Mar May Jun Aug Sep Oct Nov Dec Month Total Jan Apr REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED) Harvest 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Struck & Lost 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Total Take 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Harvest 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED) Harvest 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take (%) ------Cum. Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Cum. Take (%)

| HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|--------------------------------------|--------|---------|---------|---------|---------|--------|---------|--------|---------|--------|--------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | TAKE BY | / SAMPL | ED HO | JSEHO | LDS (UN | IEXPAN | DED) | | | | | |
| Harvest | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| ESTIMATED H | HARVES | T AND | TAKE B | Y COMM | UNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 12.0 | 0.0 | 0.0 | 0.0 | 12.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 12.0 | 0.0 | 0.0 | 0.0 | 12.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.0 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HAR | /EST AI | ND TAK | E BY CC | ммии | TY (EXF | PANDED |)) | | | |
| Harvest | 0.0 | 0.0 | 12.0 | 0.0 | 0.0 | 0.0 | 12.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 24.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 12.0 | 0.0 | 0.0 | 0.0 | 12.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 24.0 |
| Total Take (%) | 0.0% | 0.0% | 50.0% | 0.0% | 0.0% | 0.0% | 50.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 12.0 | 12.0 | 12.0 | 12.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | | |
| Cum. Take (%) | 0.0% | 0.0% | 50.0% | 50.0% | 50.0% | 50.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 24. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Valdez, 2008

| | | Sea | Sea Lion | | | Harbo | rbor Seal | | |
|----------------------|---------|------|----------|---------|--------|--------|-----------|-----------|--|
| | Reporte | d by | Communi | ty Est. | Report | ed by | Commur | nity Est. | |
| | Samp | ole | (Expand | ded) | Sam | ple | (Expai | nded) | |
| | Number | % | Number | % | Number | % | Number | % | |
| Adult Male | 0 | | 0.0 | | 4 | 100.0% | 24.0 | 100.0% | |
| Adult Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Total | 0 | | 0.0 | | 4 | 100.0% | 24.0 | 100.0% | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 0.0 | 0.0 | 0.0 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 21.0 | 4.0 | 25.0 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 30.0 | 3.0 | 33.0 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 16.8 | 0.0 | 16.8 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 13.5 | 4.5 | 18.0 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 12.5 | 0.0 | 12.5 |
| 1998 | 1.7 | 1.7 | 3.3 | 1998 | 41.7 | 8.3 | 50.0 |
| 2000 | 1.7 | 1.7 | 3.3 | 2000 | 41.7 | 8.3 | 50.0 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 18.0 | 0.0 | 18.0 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 44.0 | 6.0 | 50.0 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 60.0 | 5.0 | 65.0 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 58.0 | 0.0 | 58.0 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 63.0 | 6.0 | 69.0 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 63.0 | 6.0 | 69.0 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 0.0 | 0.0 | 0.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 24.0 | 0.0 | 24.0 |

Table 25. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Anchorage, 2008

| SAMPLING DESIGN |
|-----------------|
| CUAIN DEEEDDAI |

34 Total Referred Households CHAIN REFERRAL Surveyed Households 19 55.9% Sampling Fraction Sample Household Members 80 143.2 Estimated Household Members 2000 U.S. Census Estimated Native Population 26995

HARVEST AND USE INFORMATION

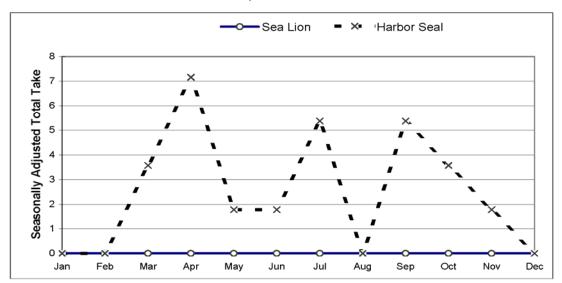
| Percentage of Sample H | House | eholds: | Estimated Community Harvest | Estimated Community Harvest | | | | | | | |
|------------------------|-------------|-------------|------------------------------|-----------------------------|-------------|--|--|--|--|--|--|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor | | | | | | |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> | | | | | | |
| Used | 0.0% | 68.4% | Total Number Harvested | 0.0 | 28.6 | | | | | | |
| Hunted | 0.0% | 36.8% | Total Number Struck and Lost | 0.0 | 1.8 | | | | | | |
| Harvested | 0.0% | 31.6% | Total Number Taken | 0.0 | 30.4 | | | | | | |
| Received | 0.0% | 47.4% | | | | | | | | | |
| Gave Away | 0.0% | 42.1% | Number Harvested Per Capita | 0.00 | 0.00 | | | | | | |
| | | | | | | | | | | | |

| SEA LION I | HARVE | EST B | Y MON | <i>ITH</i> | | | | | | | | | Jnknown | |
|---|--|---|--|---|---|---|--|--|---|--|---|---|-------------------------|---|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | RVEST AN | ID TAKE | BY SAMP | LED HOU | SEHOLDS | 6 (UNEXP | ANDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | HARVES | ST AND | TAKE B | Y COMI | MUNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | SEASON | NALLY A | TSULCIA | ED HAR | VEST A | ND TAK | E BY C | OMMUN | ITY (EXI | PANDED |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |
| | | | - O T O 1 | / 1 4 0 1 / | T | | | | | | | | | |
| HARBOR S | | | | MON. | | 1 | li d | A | C | 0-4 | NI | | Unknown | T-4-1 |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Unknown Month | Total |
| REPORTED H | Jan IARVES | Feb T AND | Mar TAKE B | Apr Y SAMP | May | USEHC | LDS (U | NEXPAN | NDED) | | | Dec | Month | |
| REPORTED H | Jan IARVES 0 | Feb T AND | Mar TAKE B | Apr Y SAMP 4 | May LED HC | DUSEHC 1 | LDS (U | NEXPAN | NDED) | 2 | 1 | Dec 0 | Month 0 | 16 |
| REPORTED H Harvest Struck & Lost | Jan IARVES 0 0 | Feb T AND 0 0 | Mar TAKE B 2 0 | Apr Y SAMP 4 0 | May LED HC 1 0 | DUSEHC 1 0 | DLDS (U 3 0 | NEXPAN 0 0 | NDED) 2 1 | 2 | 1 | 0 0 | Month 0 0 | 16 1 |
| REPORTED H Harvest Struck & Lost Total Take | Jan IARVES 0 0 0 | Feb OT AND 0 0 0 | Mar TAKE B 2 0 2 | Apr Y SAMP 4 0 4 | May LED HC 1 0 | 0 1 1 | 0LDS (U 3 0 3 | NEXPAN | NDED) | 2 | 1 | Dec 0 | Month 0 | 16 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H | Jan IARVES 0 0 0 HARVES | Feb O O O O ST AND | Mar TAKE B 2 0 2 TAKE B | Apr Y SAMP 4 0 4 SY COMI | May LED HC 1 0 1 | DUSEHO 1 0 1 (EXPAN | 0 3 0 3 NDED) | 0 0 0 | NDED) 2 1 3 | 2 0 2 | 1 0 1 | 0 0 0 | 0 0 0 | 16 1 17 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest | Jan Jan O O O HARVES 0.0 | Feb 0 0 0 0 8T AND 0 0 | Mar TAKE B 2 0 2 TAKE B 3.6 | Apr Y SAMP 4 0 4 SY COMI 7.2 | May LED HC 1 0 1 MUNITY 1.8 | 0 1 0 1 (EXPAN | 3 0 3 NDED) 5.4 | 0 0 0 0 | NDED) 2 1 3 | 2 0 2 | 1 0 1 | 0 0 0 0 | 0 0 0 | 16 1 17 28.6 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost | Jan Jan O O O HARVES 0.0 0.0 | Feb 0 0 0 0 0 8T AND 0.0 0.0 | Mar TAKE B 2 0 2 TAKE B 3.6 0.0 | Apr Y SAMP 4 0 4 SY COMI 7.2 0.0 | May LED HC 1 0 1 MUNITY 1.8 0.0 | 1 0 1 (EXPAN 1.8 0.0 | 3 0 3 NDED) 5.4 0.0 | 0 0 0 0 0 | NDED) 2 1 3 3.6 1.8 | 2 0 2 3.6 0.0 | 1 0 1 1.8 0.0 | 0 0 0 0 | 0 0 0 0 0.0 | 16 1 17 28.6 1.8 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take | Jan IARVES 0 0 0 HARVES 0.0 0.0 0.0 | Feb T AND 0 0 0 0 ST AND 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Mar TAKE B 2 0 2 TAKE B 3.6 0.0 3.6 | Apr Y SAMP 4 0 4 8Y COMI 7.2 0.0 1.8 | May LED HC 1 0 1 MUNITY 1.8 0.0 1.8 | 1 0 1 (EXPAN 1.8 0.0 1.8 | 3 0 3 NDED) 5.4 0.0 5.4 | 0 0 0 0 0.0 0.0 | 3.6 1.8 5.4 | 2 0 2 3.6 0.0 3.6 | 1 0 1 1.8 0.0 1.8 | 0 0 0 0 | 0 0 0 | 16 1 17 28.6 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S | Jan HARVES 0 0 0 HARVES 0.0 0.0 0.0 SEASON | Feb T AND 0 0 0 ST AND 0.0 0.0 0.0 NALLY A | Mar TAKE B 2 0 2 TAKE E 3.6 0.0 3.6 ADJUST | Apr Y SAMP 4 0 4 8Y COMI 7.2 0.0 1.8 | May LED HC 1 0 1 MUNITY 1.8 0.0 1.8 VEST A | 0 1 0 1 (EXPAI 1.8 0.0 1.8 | 3 0 3 NDED) 5.4 0.0 5.4 | 0.0 0.0 0.0 0.0 0.0 | 3.6 1.8 5.4 | 2 0 2 3.6 0.0 3.6 PANDED | 1 0 1 1.8 0.0 1.8 | 0 0 0 0 0.0 0.0 | 0 0 0 0 0.0 | 16 1 17 28.6 1.8 30.4 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S Harvest | Jan HARVES 0 0 0 HARVES 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | Feb T AND 0 0 0 0 0 0 0 0 0 0 0 0 0 | Mar TAKE B 2 0 2 TAKE E 3.6 0.0 3.6 ADJUST 3.6 | Apr Y SAMP 4 0 4 SY COMI 7.2 0.0 1.8 ED HAR 7.2 | May LED HC 1 0 1 MUNITY 1.8 0.0 1.8 VEST A 1.8 | 1 0 1 (EXPAN 1.8 0.0 1.8 ND TAK | 3 0 3 NDED) 5.4 0.0 5.4 E BY C | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 3.6 1.8 5.4 1ITY (EXI | 2 0 2 3.6 0.0 3.6 PANDED | 1 0 1 1.8 0.0 | 0 0 0 0 0.0 0.0 0.0 | 0 0 0 0 0.0 | 16 1 17 28.6 1.8 30.4 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S Harvest Struck & Lost | Jan JARVES 0 0 0 0 HARVES 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | Feb 07 AND 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Mar TAKE B 2 0 2 TAKE E 3.6 0.0 3.6 ADJUST 3.6 0.0 | Apr Y SAMP 4 0 4 8Y COMI 7.2 0.0 1.8 ED HAR 7.2 0.0 | May LED HC 1 0 1 MUNITY 1.8 0.0 1.8 VEST A 1.8 0.0 | 1 0 1 (EXPAI 1.8 0.0 1.8 ND TAK 1.8 0.0 | 3 0 3 NDED) 5.4 0.0 5.4 EE BY CO | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 3.6 1.8 5.4 HITY (EXI | 2 0 2 3.6 0.0 3.6 PANDED 3.6 0.0 | 1 0 1 1.8 0.0 1.8 0.0 1.8 0.0 | 0 0 0 0 0.0 0.0 0.0 | 0 0 0 0 | 16 1 17 28.6 1.8 30.4 28.6 1.8 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S Harvest Struck & Lost Total Take Total Take | Jan JARVES 0 0 0 0 HARVES 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | Feb T AND 0 0 0 ST AND 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | Mar TAKE B 2 0 2 TAKE E 3.6 0.0 3.6 ADJUST 3.6 0.0 3.6 | Apr Y SAMP 4 0 4 8Y COMI 7.2 0.0 1.8 ED HAR 7.2 0.0 7.2 | May LED HC 1 0 1 MUNITY 1.8 0.0 1.8 VEST A 1.8 0.0 1.8 | 1 0 1 (EXPAN 1.8 0.0 1.8 ND TAK 1.8 0.0 1.8 | NDED) (U 3 0 3 3 NDED) 5.4 0.0 5.4 0.0 5.4 0.0 5.4 0.0 5.4 | 0 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 3.6 1.8 5.4 1ITY (EXI 3.6 1.8 5.4 | 2 0 2 3.6 0.0 3.6 PANDED 3.6 0.0 3.6 | 1 0 1 1.8 0.0 1.8 0.0 1.8 0.0 1.8 | 0 0 0 0.0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 | 16 1 17 28.6 1.8 30.4 28.6 1.8 30.4 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S Harvest Struck & Lost Total Take Total Take Total Take | Jan JARVES 0 0 0 0 HARVES 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0. | Feb T AND 0 0 0 ST AND 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0. | Mar TAKE B 2 0 2 TAKE E 3.6 0.0 3.6 ADJUST 3.6 0.0 3.6 11.8% | Apr Y SAMP 4 0 4 Y COMI 7.2 0.0 1.8 ED HAR 7.2 0.0 7.2 23.5% | May LED HC 1 0 1 MUNITY 1.8 0.0 1.8 VEST A 1.8 0.0 1.8 5.9% | 1 0 1 (EXPAI 1.8 0.0 1.8 ND TAK 1.8 0.0 1.8 5.9% | NDED) 5.4 0.0 5.4 0.0 5.4 0.0 5.4 0.0 5.4 | 0 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 3.6 1.8 5.4 HITY (EXI 3.6 1.8 5.4 | 2 0 2 3.6 0.0 3.6 PANDED 3.6 0.0 3.6 11.8% | 1 0 1 1.8 0.0 1.8 0.0 1.8 0.0 1.8 5.9% | 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 | 16 1 17 28.6 1.8 30.4 28.6 1.8 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S Harvest Struck & Lost Total Take Total Take | Jan JARVES 0 0 0 0 HARVES 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | Feb T AND 0 0 0 ST AND 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | Mar TAKE B 2 0 2 TAKE E 3.6 0.0 3.6 ADJUST 3.6 0.0 3.6 | Apr Y SAMP 4 0 4 8Y COMI 7.2 0.0 1.8 ED HAR 7.2 0.0 7.2 | May LED HC 1 0 1 MUNITY 1.8 0.0 1.8 VEST A 1.8 0.0 1.8 | 1 0 1 (EXPAN 1.8 0.0 1.8 ND TAK 1.8 0.0 1.8 | NDED) (U 3 0 3 3 NDED) 5.4 0.0 5.4 0.0 5.4 0.0 5.4 0.0 5.4 | 0 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 3.6 1.8 5.4 1ITY (EXI 3.6 1.8 5.4 | 2 0 2 3.6 0.0 3.6 PANDED 3.6 0.0 3.6 | 1 0 1 1.8 0.0 1.8 0.0 1.8 0.0 1.8 | 0 0 0 0.0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 | 16 1 17 28.6 1.8 30.4 28.6 1.8 30.4 |

Table 25. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Anchorage, 2008

| | | Sea | ı Lion | | Harbor Seal | | | |
|----------------------|---------|------|---------|---------|-------------|--------|--------|-----------|
| | Reporte | d by | Communi | ty Est. | Reporte | d by | Commu | nity Est. |
| | Samp | ole | (Expan | ded) | Samp | ole | (Expa | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 3 | 18.8% | 5.4 | 18.8% |
| Adult Female | 0 | | 0.0 | | 2 | 12.5% | 3.6 | 12.5% |
| Adult Unknown Sex | 0 | | 0.0 | | 3 | 18.8% | 5.4 | 18.8% |
| Juvenile Male | 0 | | 0.0 | | 6 | 37.5% | 10.7 | 37.5% |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 1 | 6.3% | 1.8 | 6.3% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 1 | 6.3% | 1.8 | 6.3% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 16 | 100.0% | 28.6 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| SEA LION | | | | | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 5.7 | 3.8 | 9.5 | 1992 | 17.1 | 0.0 | 17.1 |
| 1993 | 7.8 | 3.3 | 11.1 | 1993 | 24.4 | 5.6 | 30.0 |
| 1994 | 1.4 | 0.0 | 1.4 | 1994 | 4.2 | 0.0 | 4.2 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 3.7 | 0.0 | 3.7 |
| 1996 | 1.0 | 0.0 | 1.0 | 1996 | 28.9 | 6.2 | 35.1 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 23.6 | 1.2 | 24.8 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 43.8 | 7.5 | 51.3 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 43.8 | 7.5 | 51.3 |
| 2001 | 1.3 | 0.0 | 1.3 | 2001 | 45.3 | 2.7 | 48.0 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 39.8 | 8.0 | 47.7 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 55.0 | 15.0 | 70.0 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 46.8 | 13.4 | 60.2 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 25.0 | 13.3 | 38.3 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 25.0 | 13.3 | 38.3 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 27.0 | 4.0 | 31.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 28.6 | 1.8 | 30.4 |

Table 26. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Homer, 2008

CHAIN REFERRAL Total Referred Households 14
Surveyed Households 8
Sampling Fraction 57.1%

Sample Household Members 28
Estimated Household Members 49.0
sus Estimated Native Population 371

2000 U.S. Census Estimated Native Population

HARVEST AND USE INFORMATION

Percentage of Sample Households: Estimated Community Harvest Sea Harbor and Take (Expanded): Sea Harbor <u>Lion</u> Seal Lion Seal Used 0.0% 37.5% Total Number Harvested 0.0 0.0 Total Number Struck and Lost Hunted 0.0% 12.5% 0.0 1.8 Total Number Taken Harvested 0.0% 0.0% 1.8 Received 0.0% 37.5%

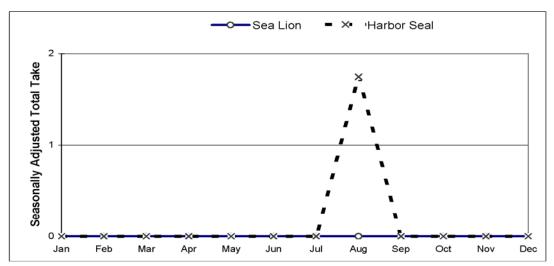
Gave Away 0.0% 37.5% Number Harvested Per Capita 0.00 0.00

| I SEALION ! | HARVE | EST BY | Y MON | ITH | | | | | | | | Į | Unknown | |
|--|---|---|--|---|---|---|---|--|---|--|--|---|---------------------------|----------------------------------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | RVEST AN | D TAKE E | BY SAMPI | ED HOU | SEHOLDS | G (UNEXP | ANDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | HARVES | T AND | TAKE B | Y COM | MUNITY | (EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | SEASON | IALLY A | DJUSTE | ED HAR | VEST A | ND TAK | E BY C | OMMUN | NITY (EX | PANDE | D) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |
| HARBOR S | EAL H | IARVE | ST BY | MON | TH | | | | | | | Į | Unknown | |
| | | | | | | | | | | | | | | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND | TAKE B | / SAMP | LED HC | USEHO | LDS (U | NEXPA | NDED) | | | | | |
| Harvest | IARVES | T AND | TAKE B | Y SAMP | LED HC | USEHO 0 | LDS (U | NEXPA 0 | NDED) | 0 | 0 | 0 | 0 | 0 |
| Harvest Struck & Lost | IARVES 0 0 | T AND ⁻ 0 0 | TAKE B` 0 0 | 7 SAMP 0 0 | LED HC | OUSEHO 0 0 | LDS (U 0 0 | NEXPA 0 1 | NDED) 0 0 | 0 | 0 | 0 | 0 | 0 1 |
| Harvest Struck & Lost Total Take | IARVES 0 0 0 | T AND ⁻ 0 0 0 | 0 0 0 0 | 7 SAMP 0 0 0 | 0 0 0 | 0 0 0 0 | LDS (U 0 0 0 | NEXPA 0 | NDED) | 0 | 0 | 0 | 0 | 0 |
| Harvest Struck & Lost | IARVES 0 0 0 | T AND 0 0 0 0 0 | 0 0 0 0 0 TAKE B | Y SAMP 0 0 0 V COMI | LED HC 0 0 0 0 0 | 0 0 0 0 | LDS (U 0 0 0 | NEXPA 0 1 | NDED) 0 0 | 0 | 0 | 0 | 0 | 0 1 1 |
| Harvest Struck & Lost Total Take ESTIMATED H Harvest | IARVES 0 0 0 | T AND ⁻ 0 0 0 | 0 0 0 0 | 7 SAMP 0 0 0 0 7 COMM | 0 0 0 | 0 0 0 0 | DS (U 0 0 0 0 DED) 0.0 | 0 1 1 0.0 | NDED) 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 1 1 |
| Harvest Struck & Lost Total Take ESTIMATED H | IARVES 0 0 0 0 HARVES | 0 0 0 0 5 T AND 0.0 0.0 | 0 0 0 0 0 TAKE B | Y SAMP 0 0 0 0 Y COMN 0.0 0.0 | LED HC 0 0 0 0 0 | 0 0 0 0 0 (EXPAN 0.0 0.0 | DS (U 0 0 0 0 DED) | 0 1 1 0.0 1.8 | 0 0 0 0 0 | 0 0 0 | 0 0 0 0.0 0.0 | 0 0 0 0.0 0.0 | 0 0 0 0.0 0.0 | 0 1 1 0.0 1.8 |
| Harvest Struck & Lost Total Take ESTIMATED H Harvest | 0 0 0 0 0 HARVES | 0 0 0 0 5 T AND | 0 0 0 0 0 TAKE B | 7 SAMP 0 0 0 0 7 COMM | 0 0 0 0 0 MUNITY 0.0 | 0 0 0 0 0 (EXPAN | DS (U 0 0 0 0 DED) 0.0 | 0 1 1 0.0 | NDED) 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 1 1 0.0 |
| Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost | 0 0 0 0 HARVES 0.0 0.0 | T AND 0 0 0 0 0 5T AND 0 0.0 0.0 | TAKE B' 0 0 0 TAKE B 0.0 0.0 | Y SAMP 0 0 0 Y COMN 0.0 0.0 0.0 | 0 0 0 0 0 MUNITY 0.0 0.0 | 0 0 0 0 0 (EXPAN 0.0 0.0 | DED) 0.0 0.0 0.0 0.0 | 0.0 1.8 1.8 | 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 | 0 0 0 0.0 0.0 | 0 1 1 0.0 1.8 |
| Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take | 0 0 0 0 HARVES 0.0 0.0 | T AND 0 0 0 0 0 5T AND 0 0.0 0.0 | TAKE B' 0 0 0 TAKE B 0.0 0.0 | Y SAMP 0 0 0 Y COMN 0.0 0.0 0.0 | 0 0 0 0 0 MUNITY 0.0 0.0 | 0 0 0 0 0 (EXPAN 0.0 0.0 | DED) 0.0 0.0 0.0 0.0 | 0.0 1.8 1.8 | 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 | 0 0 0 0.0 0.0 | 0 1 1 0.0 1.8 |
| Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S | 0 0 0 0 HARVES 0.0 0.0 0.0 | T AND - 0 0 0 0 T AND - 0.0 0.0 0.0 1ALLY A | TAKE B' 0 0 TAKE B' 0.0 0.0 0.0 | Y SAMP 0 0 0 Y COMM 0.0 0.0 0.0 ED HAR | LED HC 0 0 0 MUNITY 0.0 0.0 0.0 VEST A | 0 0 0 0 (EXPAN 0.0 0.0 0.0 | DED) 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0, | 0.0 1.8 1.8 0.00 | 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 | 0 1 1 0.0 1.8 1.8 |
| Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S Harvest | 0 0 0 0 HARVES 0.0 0.0 0.0 0.0 SEASON | T AND - 0 0 0 0 ST AND - 0,0 0,0 0,0 1ALLY A 0,0 | 0 0 0 0 TAKE B 0.0 0.0 0.0 0.0 | Y SAMP 0 0 0 0 Y COMM 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0 MUNITY 0.0 0.0 0.0 VEST A | 0 0 0 0 (EXPAN 0.0 0.0 0.0 0.0 ND TAK | DED) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0.0 1.8 1.8 0.0MMUN | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 0.0 (PANDEI | 0 0 0 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 | 0 1 1 0.0 1.8 1.8 |
| Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S Harvest Struck & Lost | 0 0 0 0 HARVES 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0 ST AND 0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0 TAKE B 0.0 0.0 0.0 0.0 0.0 0.0 | O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 MUNITY 0.0 0.0 0.0 VEST A 0.0 | 0 0 0 0 (EXPAN 0.0 0.0 0.0 ND TAK 0.0 | DED) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0.0 1.8 1.8 0.0 1.8 0.0 1.8 0.0 1.8 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 0.0 (PANDEI | 0 0 0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 | 0 1 1 0.0 1.8 1.8 |
| Harvest Struck & Lost Total Take ESTIMATED F Harvest Struck & Lost Total Take ESTIMATED S Harvest Struck & Lost Total Take | 0 0 0 0 HARVES 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | T AND - 0 0 0 0 ST AND 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | TAKE B' 0 0 0 TAKE B' 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0. | Y SAMP 0 0 0 0 0 Y COMM 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | 0 0 0 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0 (EXPAN 0.0 0.0 0.0 ND TAK 0.0 0.0 | DED) 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0, | 0.0 1.8 1.8 0.0 1.8 0.0 1.8 0.0 1.8 1.8 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 | 0 1 1 00 1.8 1.8 |

Table 26. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Homer, 2008

| | | Sea | Lion | | Harbor Seal | | | | | |
|----------------------|---------|--------|--------|------------|-------------|------|------------|----------|--|--|
| | Reporte | d by | Commun | ity Est. | Reporte | d by | Communi | ity Est. | | |
| | Samp | Sample | | (Expanded) | | ole | (Expanded) | | | |
| | Number | % | Number | % | Number | % | Number | % | | |
| Adult Male | 0 | | 0.0 | | 0 | | 0.0 | | | |
| Adult Female | 0 | | 0.0 | | 0 | | 0.0 | | | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | | |
| Juvenile Male | 0 | | 0.0 | | 0 | | 0.0 | | | |
| Juvenile Female | 0 | | 0.0 | | 0 | | 0.0 | | | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | | |
| Pup Male | 0 | | 0.0 | | 0 | | 0.0 | | | |
| Pup Female | 0 | | 0.0 | | 0 | | 0.0 | | | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | | |
| Male Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | | | |
| Female Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | | | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | | 0.0 | | | |
| Total | 0 | | 0.0 | | 0 | | 0.0 | | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | H | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|---|-------------|----------------|---------|-------------|
| | | Struck/ | Total | ' | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> |
| 1992 | | | | | 1992 | | | |
| 1993 | 0.0 | 0.0 | 0.0 | | 1993 | 4.8 | 0.0 | 4.8 |
| 1994 | 0.0 | 0.0 | 0.0 | | 1994 | 12.0 | 0.0 | 12.0 |
| 1995 | 0.0 | 0.0 | 0.0 | | 1995 | 0.0 | 0.0 | 0.0 |
| 1996 | 0.0 | 0.0 | 0.0 | | 1996 | 10.5 | 1.5 | 12.0 |
| 1997 | 0.0 | 0.0 | 0.0 | | 1997 | 41.1 | 2.6 | 43.7 |
| 1998 | 0.0 | 0.0 | 0.0 | | 1998 | 22.8 | 6.0 | 28.8 |
| 2000 | 0.0 | 0.0 | 0.0 | | 2000 | 22.8 | 6.0 | 28.8 |
| 2001 | 0.0 | 0.0 | 0.0 | | 2001 | 21.0 | 0.0 | 21.0 |
| 2002 | 0.0 | 0.0 | 0.0 | | 2002 | 23.5 | 0.0 | 23.5 |
| 2003 | 0.0 | 0.0 | 0.0 | | 2003 | 10.8 | 0.0 | 10.8 |
| 2004 | 0.0 | 0.0 | 0.0 | | 2004 | 3.7 | 0.0 | 3.7 |
| 2005 | 0.0 | 0.0 | 0.0 | | 2005 | 5.6 | 0.0 | 5.6 |
| 2006 | 0.0 | 0.0 | 0.0 | | 2006 | 5.6 | 0.0 | 5.6 |
| 2007 | 0.0 | 0.0 | 0.0 | | 2007 | 0.0 | 0.0 | 0.0 |
| 2008 | 0.0 | 0.0 | 0.0 | | 2008 | 0.0 | 1.8 | 1.8 |

Table 27. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kenai, 2008

SAMPLING DESIGN: CHAIN REFERRAL

RRAL Total Referred Households 5
Surveyed Households 1
Sampling Fraction 20.0%
Sample Household Members 2
Estimated Household Members 10.0
2000 U.S. Census Estimated Native Population 2120

HARVEST AND USE INFORMATION

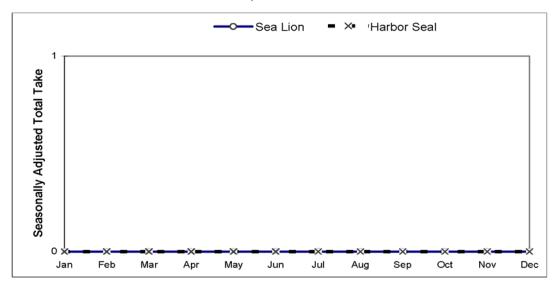
| Percentage of Sample H | louse | holds: | Estimated Community Harvest | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 0.0% | 0.0% | Total Number Harvested | 0.0 | 0.0 |
| Hunted | 0.0% | 0.0% | Total Number Struck and Lost | 0.0 | 0.0 |
| Harvested | 0.0% | 0.0% | Total Number Taken | 0.0 | 0.0 |
| Received | 0.0% | 0.0% | | | |
| Gave Away | 0.0% | 0.0% | Number Harvested Per Capita | 0.00 | 0.00 |
| | | | | | |

| SEA LION F | IARVE | STBY | 'MON' | TH | | | | | | | | l | Jnknown | |
|--|--|--|--|---|--|---|---|---|---|---|--|--|------------------|---|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | D TAKE B | Y SAMPLI | ED HOUS | EHOLDS | (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES | T AND T | AKE BY | COMM | IUNITY | (EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON. | ALLY AI | DJUSTE | D HAR\ | /EST AI | ND TAKE | BY CC | MMUNI | TY (EXF | PANDED |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| HARBOR S | | | | | | | | | | | | | Jnknown | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jnknown Month | Total |
| HARBOR S. | Jan | Feb | Mar | Apr | May | | | | | Oct | Nov | | | |
| | Jan ARVEST | Feb F AND T | Mar AKE BY | Apr SAMPL 0 | May ED HO | USEHOL 0 | DS (UN | IEXPAN 0 | | 0 | 0 | | Month 0 | 0 |
| REPORTED H. Harvest Struck & Lost | Jan ARVEST 0 0 | Feb C AND T 0 0 | Mar AKE BY 0 | Apr SAMPL 0 0 | May LED HOI 0 0 | USEHOL 0 0 | DS (UN 0 0 | IEXPAN 0 0 | DED) 0 0 | 0 | 0 | 0 0 | Month 0 0 | 0 |
| REPORTED H. | Jan ARVEST | Feb F AND T | Mar AKE BY | Apr SAMPL 0 | May ED HO | USEHOL 0 | DS (UN | IEXPAN 0 | DED) | 0 | 0 | Dec 0 | Month 0 | 0 |
| REPORTED H. Harvest Struck & Lost | Jan ARVEST 0 0 0 | Feb Γ AND T 0 0 0 | Mar AKE BY 0 0 0 | Apr SAMPL 0 0 0 | May LED HON 0 0 0 | USEHOL 0 0 0 | .DS (UN 0 0 0 | IEXPAN 0 0 | DED) 0 0 | 0 | 0 | 0 0 | Month 0 0 | 0 |
| REPORTED H. Harvest Struck & Lost Total Take | Jan ARVEST 0 0 0 | Feb Γ AND T 0 0 0 | Mar AKE BY 0 0 0 | Apr SAMPL 0 0 0 | May LED HON 0 0 0 | USEHOL 0 0 0 | .DS (UN 0 0 0 | IEXPAN 0 0 | DED) 0 0 | 0 | 0 | 0 0 | Month 0 0 | 0 |
| REPORTED H. Harvest Struck & Lost Total Take ESTIMATED H | Jan ARVEST 0 0 0 0 ARVEST | Feb C AND T 0 0 0 T AND T 0.0 0.0 | Mar AKE BY 0 0 0 TAKE BY | Apr SAMPL 0 0 0 7 COMM | May .ED HO 0 0 0 1UNITY 0.0 0.0 | 0 0 0 0 (EXPAN) 0.0 0.0 | DS (UN 0 0 0 DED) | 0 0 0 0 | DED) 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 0.0 0.0 |
| REPORTED H. Harvest Struck & Lost Total Take ESTIMATED H Harvest | Jan ARVEST 0 0 0 IARVEST 0.0 | Feb 0 0 0 0 0 T AND T 0.0 | Mar O O O O TAKE BY O O O | Apr SAMPL 0 0 0 7 COMM 0.0 | May DED HOLD O O O IUNITY O.0 | 0 0 0 0 (EXPAN) | 0 0 0 0 DED) | 0 0 0 0 | DED) 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 |
| REPORTED H. Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost | Jan ARVEST 0 0 0 IARVEST 0.0 0.0 0.0 | Feb C AND T 0 0 0 T AND T 0.0 0.0 0.0 | Mar O O O O TAKE BY O O O O O O O O O O O O O O O O O O O | Apr SAMPL 0 | May .ED HO 0 0 0 IUNITY 0.0 0.0 0.0 | 0 0 0 0 (EXPANI 0.0 0.0 | DS (UN 0 0 0 0 DED) 0.0 0.0 | 0 0 0 0 0.0 0.0 | DED) 0 0 0 0 | 0 0 0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0.0 0.0 |
| REPORTED H. Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take | Jan ARVEST 0 0 0 IARVEST 0.0 0.0 0.0 | Feb C AND T 0 0 0 T AND T 0.0 0.0 0.0 | Mar O O O O TAKE BY O O O O O O O O O O O O O O O O O O O | Apr SAMPL 0 | May .ED HO 0 0 0 IUNITY 0.0 0.0 0.0 | 0 0 0 0 (EXPANI 0.0 0.0 | DS (UN 0 0 0 0 DED) 0.0 0.0 | 0 0 0 0 0.0 0.0 | DED) 0 0 0 0 | 0 0 0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0.0 0.0 |
| REPORTED H. Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S | Jan ARVEST 0 0 0 0 IARVEST 0.0 0.0 0.0 0.0 | Feb C AND T 0 0 T AND T 0.0 0.0 0.0 ALLY ALLY ALLY | Mar O O O O O O O O O O O O O O O O O O | Apr SAMPL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 D HAR\ | May .ED HO 0 0 1UNITY 0.0 0.0 0.0 VEST AN | USEHOL 0 0 0 (EXPANI 0.0 0.0 0.0 ND TAKE | DED) 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 | DED) 0 0 0 0.0 0.0 0.0 TY (EXF | 0 0 0 0.0 0.0 0.0 PANDED | 0 0 0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 | 0 0 0 0 | 0 0 0 0.0 0.0 |
| REPORTED H. Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S Harvest | Jan ARVEST 0 0 0 0 ARVEST 0.0 0.0 EASON. | Feb C AND T 0 0 T AND T 0.0 0.0 0.0 ALLY AI | Mar O O O O TAKE BY O O O O O O O O O O O O O O O O O O O | Apr SAMPL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | May .ED HOI 0 0 1UNITY 0.0 0.0 0.0 /EST AN | USEHOL 0 0 0 (EXPANI 0.0 0.0 0.0 ND TAKE 0.0 | DS (UN 0 0 0 0 DED) 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 TY (EXF | 0 0 0 0.0 0.0 0.0 PANDED | 0 0 0 0.0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 | 0 0 0 0 | 0 0 0 0.0 0.0 0.0 |
| REPORTED H. Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S Harvest Struck & Lost | Jan ARVEST 0 0 0 0 ARVEST 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | Feb C AND T O O O T AND T O O O O ALLY AI O O O O O | Mar O O O O O TAKE BY O O O O O O O O O O O O O O O O O O O | Apr SAMPL 0 0 0 0 7 COMM 0.0 0.0 0.0 0.0 D HARN 0.0 0.0 | May .ED HOI 0 0 1UNITY 0.0 0.0 0.0 /EST AN 0.0 0.0 | 0 0 0 0 (EXPANI 0.0 0.0 0.0 ND TAKE 0.0 | DS (UN 0 0 0 0 DED) 0.0 0.0 0.0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0.0 0.0 0.0 0.0 0.0 TY (EXF | 0 0 0 0.0 0.0 0.0 PANDED 0.0 | 0 0 0 0.0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 | 0 0 0 0 | 0 0 0 0.0 0.0 0.0 |
| REPORTED H. Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S Harvest Struck & Lost Total Take | Jan ARVES 0 0 0 ARVES 0.0 0.0 0.0 EASON 0.0 0.0 | Feb C AND T 0 0 0 T AND T 0.0 0.0 ALLY AI 0.0 0.0 0.0 | Mar O O O TAKE BY O O O O O O O O O O O O O | Apr SAMPL 0 0 0 0 COMM 0.0 0.0 0.0 D HAR\ 0.0 0.0 | May .ED HO .0 .0 .0 .0 .0 .0 .0 .0 .0 . | 0 0 0 0 (EXPANI 0.0 0.0 0.0 ND TAKE 0.0 0.0 | DS (UN 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0.0 0.0 0.0 0.0 0.0 0.0 TY (EXF 0.0 0.0 | 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 0.0 | 0 0 0 0 | 0 0 0 0.0 0.0 0.0 0.0 |

Table 27. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kenai, 2008

| | | Sea | a Lion | | | Harbor Seal | | | | | |
|----------------------|---------|------|---------|------------|---------|-------------|------------|---------|--|--|--|
| | Reporte | d by | Communi | ty Est. | Reporte | d by | Communi | ty Est. | | | |
| | Sample | | (Expan | (Expanded) | | ole | (Expanded) | | | | |
| | Number | % | Number | % | Number | % | Number | % | | | |
| Adult Male | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Adult Female | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Juvenile Male | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Juvenile Female | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Pup Male | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Pup Female | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Male Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Female Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | | 0.0 | | | | |
| Total | 0 | | 0.0 | | 0 | | 0.0 | | | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| SEA LION | | | | H | IARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 33.3 | 0.0 | 33.3 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 20.0 | 0.0 | 20.0 |
| 1994 | | | | 1994 | | | |
| 1995 | | | | 1995 | | | |
| 1996 | 2.3 | 0.0 | 2.3 | 1996 | 22.9 | 1.1 | 24.0 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 35.0 | 5.0 | 40.0 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 12.6 | 0.0 | 12.6 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 12.6 | 0.0 | 12.6 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 24.9 | 0.0 | 24.9 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 9.0 | 0.0 | 9.0 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 20.0 | 0.0 | 20.0 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 6.0 | 0.0 | 6.0 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 6.0 | 0.0 | 6.0 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 6.0 | 0.0 | 6.0 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 0.0 | 0.0 | 0.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 0.0 | 0.0 | 0.0 |

Table 28. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Tyonek, 2008

CHAIN REFERRAL Total Referred Households 3
Surveyed Households 2
Sampling Fraction 66.7%
Sample Household Members 8

Estimated Household Members 12.0 2000 U.S. Census Estimated Native Population 184

HARVEST AND USE INFORMATION

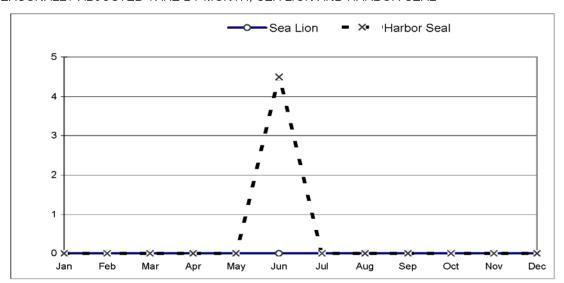
| HARVEST AND USE IN | ILOKI | VIATION | | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|
| Percentage of Sample F | louse | holds: | Estimated Community Harvest | | |
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 0.0% | 50.0% | Total Number Harvested | 0.0 | 4.5 |
| Hunted | 0.0% | 50.0% | Total Number Struck and Lost | 0.0 | 0.0 |
| Harvested | 0.0% | 50.0% | Total Number Taken | 0.0 | 4.5 |
| Received | 0.0% | 0.0% | | | |
| Gave Away | 0.0% | 50.0% | Number Harvested Per Capita | 0.00 | 0.02 |

| SEA LION F | HARVE Jan | ESTBY Feb | Y MON Mar | <i>ITH</i> Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jnknown Month | Total |
|--|---|--|--|--|---|---|---|--|--|---|--|---|---------------------|---|
| REPORTED HAR | | | | | | | | , tag | СОР | | 1101 | 200 | WOTH | Total |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | HARVES | T AND | TAKE B | Y COMI | /IUNITY | (EXPA | NDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | SEASON | NALLY A | DJUST | ED HAR | VEST A | AND TAI | KE BY C | OMMU | NITY (EX | PANDED |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| HARBOR S | | | | | | | | | | | | | Jnknown | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jnknown Month | Total |
| REPORTED H | Jan IARVES | Feb | Mar FAKE B | Apr Y SAMPI | May LED HO | DUSEHO | OLDS (U | NEXPA | NDED) | | | Dec | Month | |
| REPORTED H | Jan IARVES 0 | Feb T AND | Mar FAKE B | Apr Y SAMPI 0 | May LED HO | OUSEHO 3 | OLDS (U | NEXPA 0 | NDED) | 0 | 0 | Dec 0 | Month 0 | 3 |
| REPORTED H Harvest Struck & Lost | Jan JARVES 0 0 | Feb 0 | Mar (0 (0 | Apr Y SAMPI 0 0 | May LED HO 0 0 | OUSEHO 3 0 | OLDS (U 0 0 | NEXPA 0 0 | NDED) 0 0 | 0 | 0 | 0 0 | Month 0 0 | 3 |
| REPORTED H Harvest Struck & Lost Total Take | Jan IARVES 0 0 0 | Feb 0 0 0 0 | Mar ΓΑΚΕ Β' 0 0 0 | Apr Y SAMP 0 0 0 | May LED HO 0 0 | OUSEHO 3 0 3 | OLDS (U 0 0 0 | NEXPA 0 | NDED) | 0 | 0 | Dec 0 | Month 0 | 3 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H | Jan IARVES 0 0 0 HARVES | Feb O O O O ST AND | Mar FAKE B 0 0 0 TAKE B | Apr Y SAMPI 0 0 0 V COMI | May LED HO 0 0 0 1 MUNITY | OUSEHO 3 0 3 '(EXPA | OLDS (U 0 0 0 0 NDED) | 0 0 0 | NDED) 0 0 0 | 0 0 | 0 0 | 0 0 0 | 0 0 0 | 3 0 3 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest | Jan Jan O O O HARVES | Feb T AND 0 0 0 0 0 0 0 0 0 0 0 0 0 | Mar O O O TAKE B' 0 O O TAKE B' | Apr 0 0 0 0 0 Y COMN 0.0 | May LED HO 0 0 0 1 IUNITY 0.0 | 3 0 3 '(EXPA 4.5 | OLDS (U 0 0 0 0 NDED) 0.0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 0 | 0 0 0 | 3 0 3 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost | Jan O O O O HARVES 0.0 0.0 | Feb T AND 0 0 0 0 0 0 0 0 0 0 0 0 0 | Mar 0 0 0 TAKE Β' 0.0 0.0 | Apr Y SAMPI 0 0 0 0 Y COMN 0.0 0.0 | May LED H 0 0 0 1UNITY 0.0 0.0 | 3 0 3 7 (EXPA 4.5 0.0 | OLDS (U 0 0 0 0 NDED) 0.0 | 0 0 0 0 0.0 | 0 0 0 0 0.0 | 0 0 0 0.0 0.0 | 0 0 0 0.0 0.0 | 0 0 0 0 | 0 0 0 0 | 3 0 3 4.5 0.0 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take | Jan IARVES 0 0 0 HARVES 0.0 0.0 0.0 | 0 0 0 0 0 ST AND 0.0 0.0 | 0 0 0 0 TAKE B 0.0 0.0 | Apr Y SAMPI 0 0 0 0 Y COMN 0.0 0.0 | May LED HO 0 0 0 1 MUNITY 0.0 0.0 0.0 | 3 0 3 ' (EXPA 4.5 0.0 4.5 | OLDS (U 0 0 0 0 NDED) 0.0 0.0 | 0.0 0.0 0.0 | 0 0 0 0 0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 | 0 0 0 0 | 0 0 0 | 3 0 3 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost | Jan JARVES 0 0 0 HARVES 0.0 0.0 0.0 SEASON | Feb T AND 0 0 0 ST AND 0.0 0.0 0.0 NALLY A | Mar FAKE B' 0 0 TAKE B' 0.0 0.0 0.0 0.0 DJUSTE | Apr Y SAMPI 0 0 0 Y COMN 0.0 0.0 0.0 | May LED HG 0 0 0 //UNITY 0.0 0.0 0.0 VEST A | 3 0 3 7 (EXPA 4.5 0.0 4.5 | OLDS (U 0 0 0 NDED) 0.0 0.0 | 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 PANDED | 0 0 0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 | 0 0 0 0 | 3 0 3 4.5 0.0 4.5 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S Harvest | Jan JARVES 0 0 0 HARVES 0.0 0.0 0.0 0.0 BEASON 0.0 | Feb 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Mar FAKE B' 0 0 0 TAKE B' 0.0 0.0 0.0 0.0 DJUSTE | Apr Y SAMPI 0 0 0 0 Y COMN 0.0 0.0 0.0 ED HARY | May LED H0 0 0 0 MUNITY 0.0 0.0 0.0 VEST A | 3 0 3 (EXPA 4.5 0.0 4.5 AND TAK | DLDS (U 0 0 0 0 NDED) 0.0 0.0 0.0 KE BY C | 0 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 PANDED | 0 0 0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 | 0 0 0 0 | 3 0 3 4.5 0.0 4.5 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S Harvest Struck & Lost | Jan JARVES 0 0 0 0 HARVES 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | Feb T AND 0 0 0 0 ST AND 0.0 0.0 0.0 NALLY A 0.0 0.0 | Mar FAKE B 0 0 0 TAKE B 0.0 0.0 0.0 0.0 0.0 DJUSTE 0.0 0.0 | Apr Y SAMPI 0 0 0 0 Y COMN 0.0 0.0 0.0 0.0 0.0 | May LED HC 0 0 MUNITY 0.0 0.0 0.0 VEST A 0.0 | 3 0 3 ' (EXPA 4.5 0.0 4.5 AND TAK 4.5 0.0 | DLDS (U 0 0 0 0 NDED) 0.0 0.0 0.0 KE BY C 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 PANDED 0.0 | 0 0 0 0.0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 | 0 0 0 0 | 3 0 3 4.5 0.0 4.5 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S Harvest Struck & Lost Total Take Total Take | Jan JAN JAN JAN JAN JAN JAN JAN JA | Feb T AND 0 0 0 0 ST AND 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | Mar FAKE B 0 0 0 TAKE B 0.0 0.0 0.0 0.0 0.0 DJUSTE 0.0 0.0 0.0 | Apr Y SAMPI 0 0 0 0 Y COMN 0.0 0.0 0.0 0.0 0.0 0.0 | May LED HG 0 0 0 //UNITY 0.0 0.0 0.0 VEST A 0.0 0.0 0.0 | 3 0 3 7 (EXPA 4.5 0.0 4.5 AND TAK 4.5 0.0 4.5 | DLDS (U 0 0 0 0 NDED) 0.0 0.0 0.0 4E BY C 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 PANDED 0.0 0.0 | 0 0 0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 | 3 0 3 4.5 0.0 4.5 4.5 0.0 4.5 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S Harvest Struck & Lost Total Take Total Take Total Take Total Take (%) | Jan Jan Jan Jan Jan Jan Jan Jan | Feb T AND 0 0 0 0 ST AND 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | Mar FAKE B 0 0 0 TAKE B 0.0 0.0 0.0 0.0 DJUSTE 0.0 0.0 0.0 0.00 0.00 | Apr Y SAMPI 0 0 0 0 Y COMN 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0. | May LED H 0 0 0 //UNITY 0.0 0.0 0.0 VEST A 0.0 0.0 0.0 0.0 | 3 0 3 7 (EXPA 4.5 0.0 4.5 AND TAR 4.5 0.0 4.5 100.0% | DLDS (U 0 0 0 0 NDED) 0.0 0.0 0.0 4E BY C 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0.0 0.0 0.0 0.0 PANDED 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 | 3 0 3 4.5 0.0 4.5 |
| REPORTED H Harvest Struck & Lost Total Take ESTIMATED H Harvest Struck & Lost Total Take ESTIMATED S Harvest Struck & Lost Total Take Total Take | Jan JAN JAN JAN JAN JAN JAN JAN JA | Feb T AND 0 0 0 0 ST AND 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | Mar FAKE B 0 0 0 TAKE B 0.0 0.0 0.0 0.0 0.0 DJUSTE 0.0 0.0 0.0 | Apr Y SAMPI 0 0 0 0 Y COMN 0.0 0.0 0.0 0.0 0.0 0.0 | May LED HG 0 0 0 //UNITY 0.0 0.0 0.0 VEST A 0.0 0.0 0.0 | 3 0 3 7 (EXPA 4.5 0.0 4.5 AND TAK 4.5 0.0 4.5 | DLDS (U 0 0 0 0 NDED) 0.0 0.0 0.0 4E BY C 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0.0 0.0 0.0 PANDED 0.0 0.0 | 0 0 0 0.0 0.0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 0.0 | 0 0 0 0 0.0 0.0 0.0 | 3 0 3 4.5 0.0 4.5 4.5 0.0 4.5 |

Table 28. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Tyonek, 2008

| | | Sea | Lion | | | Harbor | · Seal | |
|----------------------|---------|------|---------|---------|---------|--------|--------|-----------|
| | Reporte | d by | Communi | ty Est. | Reporte | d by | Commu | nity Est. |
| | Samp | ole | (Expan | ded) | Samp | ole | (Expa | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 3 | 100.0% | 4.5 | 100.0% |
| Adult Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 3 | 100.0% | 4.5 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | HARBO | R SEA | |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 1.1 | 0.0 | 1.1 |
| 1993 | | | | 1993 | | | |
| 1994 | | | | 1994 | | | |
| 1995 | | | | 1995 | | | |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 2.0 | 0.0 | 2.0 |
| 1997 | | | | 1997 | | | |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 0.0 | 0.0 | 0.0 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 0.0 | 0.0 | 0.0 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 0.0 | 0.0 | 0.0 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 3.0 | 0.0 | 3.0 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 5.0 | 0.0 | 5.0 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 0.0 | 0.0 | 0.0 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 1.0 | 0.0 | 1.0 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 1.0 | 0.0 | 1.0 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 0.0 | 0.0 | 0.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 4.5 | 0.0 | 4.5 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2009.

Table 29. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Akhiok, 2008

CENSUS Total Native Households 23 Surveyed Households 22

Sampling Fraction 95.7% Sample Household Members 86 Estimated Household Members 89.9

75

2000 U.S. Census Estimated Native Population

HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest

| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
|-----------|-------------|-------------|------------------------------|------|--------|
| | <u>Lion</u> | <u>Seal</u> | | Lion | Seal |
| Used | 13.6% | 81.8% | Total Number Harvested | 2.1 | 10.5 |
| Hunted | 9.1% | 36.4% | Total Number Struck and Lost | 3.1 | 5.2 |
| Harvested | 9.1% | 36.4% | Total Number Taken | 5.2 | 15.7 |
| Received | 9.1% | 50.0% | | | |
| Gave Away | 9.1% | 27.3% | Number Harvested Per Capita | 0.03 | 0.14 |

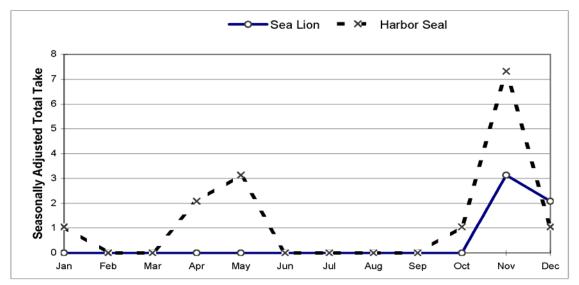
| SEA LION HARVEST BY MONTH | | | | | | | | | | | | | | |
|---------------------------|---------|----------|---------|---------|---------|---------|-------|-------|---------|--------|-------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AN | D TAKE B | Y SAMPL | ED HOUS | EHOLDS | (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 3 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 5 |
| ESTIMATED | HARVES | T AND T | TAKE BY | COMM | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 2.1 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 1.0 | 0.0 | 3.1 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 2.1 | 0.0 | 5.2 |
| ESTIMATEDS | SEASON | ALLY A | DJUSTE | D HARV | EST AN | ID TAKE | BY CO | ММИМІ | Y (EXPA | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | | 2.1 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 1.0 | | 3.1 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 2.1 | | 5.2 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 60.0% | 40.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 5.2 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 60.0% | 100.0% | | |

| HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|--------------------------------------|--------|---------|--------|---------|---------|---------|---------|-------|---------|--------|-------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | AKE BY | / SAMPL | ED HO | USEHOL | _DS (UN | EXPAN | DED) | | | | | |
| Harvest | 1 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 10 |
| Struck & Lost | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 5 |
| Total Take | 1 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 1 | 7 | 1 | 0 | 15 |
| ESTIMATED H | HARVES | T AND T | AKE B | Y COMM | UNITY | (EXPAN | DED) | | | | | | | |
| Harvest | 1.0 | 0.0 | 0.0 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 3.1 | 1.0 | 0.0 | 10.5 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | 0.0 | 5.2 |
| Total Take | 1.0 | 0.0 | 0.0 | 2.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 7.3 | 1.0 | 0.0 | 15.7 |
| ESTIMATEDS | SEASON | ALLY A | DJUSTE | D HAR | /EST AN | ND TAKE | BY CC | INUMM | TY (EXP | ANDED) | | | | |
| Harvest | 1.0 | 0.0 | 0.0 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 3.1 | 1.0 | | 10.5 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.2 | 0.0 | | 5.2 |
| Total Take | 1.0 | 0.0 | 0.0 | 2.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 7.3 | 1.0 | | 15.7 |
| Total Take (%) | 6.7% | 0.0% | 0.0% | 13.3% | 20.0% | 0.0% | 0.0% | 0.0% | 0.0% | 6.7% | 46.7% | 6.7% | | 100.0% |
| Cum. Take | 1.0 | 1.0 | 1.0 | 3.1 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 7.3 | 14.6 | 15.7 | | |
| Cum. Take (%) | 6.7% | 6.7% | 6.7% | 20.0% | 40.0% | 40.0% | 40.0% | 40.0% | 40.0% | 46.7% | 93.3% | 100.0% | | |

Table 29. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Akhiok, 2008

| | | Sea | a Lion | | | Harbor | Seal | |
|----------------------|---------|--------|--------|-----------|---------|--------|--------|-----------|
| | Reporte | ed by | Commur | nity Est. | Reporte | d by | Commu | nity Est. |
| | Sam | ple | (Expar | nded) | Samp | ole | (Ехра | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | 0.0% | 0.0 | 0.0% | 3 | 30.0% | 3.1 | 30.0% |
| Adult Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 2 | 20.0% | 2.1 | 20.0% |
| Juvenile Male | 1 | 50.0% | 1.0 | 50.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 1 | 10.0% | 1.0 | 10.0% |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 1 | 10.0% | 1.0 | 10.0% |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 1 | 10.0% | 1.0 | 10.0% |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 1 | 50.0% | 1.0 | 50.0% | 1 | 10.0% | 1.0 | 10.0% |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | 1 | 10.0% | 1.0 | 10.0% |
| Total | 2 | 100.0% | 2.1 | 100.0% | 10 | 100.0% | 10.5 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 3.0 | 1.0 | 4.0 | 1992 | 20.0 | 3.0 | 23.0 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 13.3 | 0.0 | 13.3 |
| 1994 | 3.2 | 0.0 | 3.2 | 1994 | 14.5 | 0.0 | 14.5 |
| 1995 | 1.0 | 1.0 | 2.0 | 1995 | 5.0 | 0.0 | 5.0 |
| 1996 | 6.0 | 1.0 | 7.0 | 1996 | 12.0 | 1.0 | 13.0 |
| 1997 | 6.6 | 1.3 | 7.9 | 1997 | 7.9 | 0.0 | 7.9 |
| 1998 | 3.1 | 0.0 | 3.1 | 1998 | 7.3 | 0.0 | 7.3 |
| 2000 | 3.2 | 0.0 | 3.2 | 2000 | 17.6 | 0.0 | 17.6 |
| 2001 | 1.4 | 0.0 | 1.4 | 2001 | 7.2 | 0.0 | 7.2 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 6.3 | 0.0 | 6.3 |
| 2003 | 2.7 | 1.4 | 4.1 | 2003 | 5.5 | 0.0 | 5.5 |
| 2004 | 1.4 | 0.0 | 1.4 | 2004 | 4.2 | 1.4 | 5.6 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 6.9 | 0.0 | 6.9 |
| 2006 | 2.3 | 0.0 | 2.3 | 2006 | 13.6 | 1.1 | 14.7 |
| 2007 | 3.0 | 0.0 | 3.0 | 2007 | 7.0 | 0.0 | 7.0 |
| 2008 | 2.1 | 3.1 | 5.2 | 2008 | 10.5 | 5.2 | 15.7 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2009.

Table 30. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Karluk, 2008

CENSUS Total Native Households 14
Surveyed Households 14
Sampling Fraction 100.0%

Sample Household Members 36
Estimated Household Members 36.0
2000 U.S. Census Estimated Native Population 26

HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest

| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
|-----------|-------------|-------------|------------------------------|-------------|-------------|
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | N/A | N/A | Total Number Harvested | 0.0 | 0.0 |
| Hunted | 0.0% | 0.0% | Total Number Struck and Lost | 0.0 | 0.0 |
| Harvested | 0.0% | 0.0% | Total Number Taken | 0.0 | 0.0 |
| Received | N/A | N/A | | | |
| Gave Away | N/A | N/A | Number Harvested Per Capita | 0.00 | 0.00 |

| SEA LION H | SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|-----------------------------------|---------|--------|---------|----------|---------|--------|--------|----------|-------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HARV | EST AND | TAKE BY | SAMPLE | D HOUSE | HOLDS (l | JNEXPAN | IDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED HA | RVEST | AND T | AKE BY | сомми | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED SE | EASONA | ALLY AD | JUSTE | HARV | EST AND | TAKE | BY COM | тилимі | Y (EXPAN | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | , | | - |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

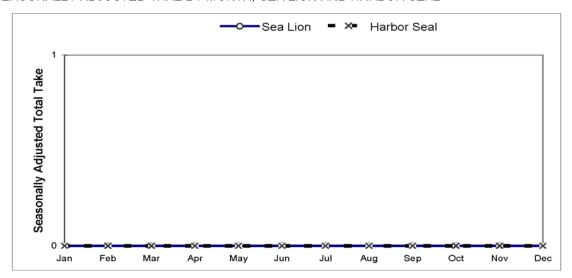
| HARBOR SE | EAL HA | ARVES | ST BY I | MONT. | Н | | | | | | | Ų | Jnknown | |
|----------------|--------|-------|---------|--------|----------|--------|--------|--------|----------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HA | RVEST | AND T | AKE BY | SAMPLE | D HOUS | SEHOLE | S (UNE | XPAND | ED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED HA | ARVEST | AND T | AKE BY | СОММ | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED SE | EASONA | LLY A | JUSTED | HARVI | EST AND | TAKE | BY COM | тилимі | Y (EXPAN | IDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | - |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

SOURCE: ANHSC Household Surveys, (Numbers based on local assistant personal communication, 2009).

Table 30. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Karluk, 2008

| | | Sea | Lion | | Harbor Seal | | | | |
|----------------------|---------|------|--------|----------|-------------|------|---------|---------|--|
| | Reporte | d by | Commun | ity Est. | Reported | l by | Communi | ty Est. | |
| | Samp | ole | (Expan | ded) | Samp | le | (Expan | ded) | |
| | Number | % | Number | % | Number | % | Number | % | |
| Adult Male | 0 | | 0.0 | | 0 | | 0.0 | | |
| Adult Female | 0 | | 0.0 | | 0 | | 0.0 | | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | |
| Juvenile Male | 0 | | 0.0 | | 0 | | 0.0 | | |
| Juvenile Female | 0 | | 0.0 | | 0 | | 0.0 | | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | |
| Pup Male | 0 | | 0.0 | | 0 | | 0.0 | | |
| Pup Female | 0 | | 0.0 | | 0 | | 0.0 | | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | |
| Male Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | | |
| Female Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | | 0.0 | | |
| Total | 0 | | 0.0 | | 0 | | 0.0 | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| SEA LION | | | | | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 16.5 | 1.5 | 18.0 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 10.0 | 1.3 | 11.3 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 7.5 | 0.0 | 7.5 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 28.1 | 6.8 | 34.9 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 15.1 | 0.0 | 15.1 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 19.0 | 0.0 | 19.0 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 11.0 | 0.0 | 11.0 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 19.5 | 1.5 | 21.0 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 8.3 | 0.0 | 8.3 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 8.3 | 0.0 | 8.3 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 4.3 | 0.0 | 4.3 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 3.1 | 0.0 | 3.1 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 19.4 | 0.0 | 19.4 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 19.4 | 0.0 | 19.4 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 0.0 | 0.0 | 0.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 0.0 | 0.0 | 0.0 |
| | | | | | | | |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2009 (2008 harvest estimates based on local assistant personal communication).

Table 31. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kodiak City, 2008

SAMPLING DESIGN: CHAIN REFERRAL

Total Referred Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
178.2

829

HARVEST AND USE INFORMATION

Percentage of Sample Households: Estimated Community Harvest

2000 U.S. Census Estimated Native Population

Harbor and Take (Expanded): Sea Sea Harbor Lion <u>Seal</u> <u>Lion</u> <u>Seal</u> **Total Number Harvested** Used 0.0% 100.0% 0.0 62.6 Hunted 0.0% 88.0% Total Number Struck and Lost 0.0 8.6 Harvested 0.0% 64.0% **Total Number Taken** 71.3 Received 0.0% 56.0% Gave Away Number Harvested Per Capita 0.0% 60.0% 0.00 0.08

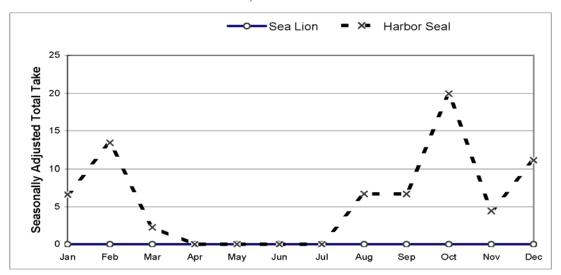
SEA LION HARVEST BY MONTH Unknown Mav Jun Jul Aug Sep Oct Nov Dec Month Total Mar Apr Jan REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED) 0 0 0 0 0 0 0 0 Harvest Struck & Lost 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Total Take 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Harvest Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED) Harvest 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 Total Take (%) Cum. Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Cum. Take (%)

| HARBOR S | ARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|-------------------------------------|---------|---------|-------|----------|---------|---------|--------|----------|--------|-------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND | TAKE BY | SAMPL | .ED HO | JSEHOL | .DS (UN | EXPAN | DED) | | | | | |
| Harvest | 2 | 6 | 1 | 0 | 0 | 0 | 0 | 3 | 3 | 7 | 2 | 4 | 1 | 29 |
| Struck & Lost | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 4 |
| Total Take | 3 | 6 | 1 | 0 | 0 | 0 | 0 | 3 | 3 | 9 | 2 | 5 | 1 | 33 |
| ESTIMATED H | HARVES | T AND | TAKE BY | СОММ | IUNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 4.3 | 13.0 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 6.5 | 15.1 | 4.3 | 8.6 | 2.2 | 62.6 |
| Struck & Lost | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 0.0 | 2.2 | 0.0 | 8.6 |
| Total Take | 6.5 | 13.0 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 6.5 | 19.4 | 4.3 | 10.8 | 2.2 | 71.3 |
| ESTIMATED S | SEASON | IALLY A | DJUSTE | D HAR | /EST AN | ID TAKE | ВУСО | мминіт | TY (EXP. | ANDED) | | | | |
| Harvest | 4.5 | 13.4 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7 | 6.7 | 15.7 | 4.5 | 8.9 | | 62.6 |
| Struck & Lost | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 0.0 | 2.2 | | 8.6 |
| Total Take | 6.6 | 13.4 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7 | 6.7 | 20.0 | 4.5 | 11.1 | | 71.3 |
| Total Take (%) | 9.3% | 18.8% | 3.1% | 0.0% | 0.0% | 0.0% | 0.0% | 9.4% | 9.4% | 28.0% | 6.3% | 15.6% | | 100.0% |
| Cum. Take | 6.6 | 20.1 | 22.3 | 22.3 | 22.3 | 22.3 | 22.3 | 29.0 | 35.7 | 55.7 | 60.2 | 71.3 | | |
| Cum. Take (%) | 9.3% | 28.1% | 31.3% | 31.3% | 31.3% | 31.3% | 31.3% | 40.7% | 50.1% | 78.1% | 84.4% | 100.0% | | |

Table 31. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kodiak City, 2008

| | | Sea | a Lion | | Harbor Seal | | | | | | |
|----------------------|---------|------|---------|----------|-------------|--------|--------|-----------|--|--|--|
| | Reporte | d by | Communi | ity Est. | Report | ed by | Commu | nity Est. | | | |
| | Samp | ole | (Expan | ded) | Sam | ple | (Ехра | nded) | | | |
| | Number | % | Number | % | Number | % | Number | % | | | |
| Adult Male | 0 | | 0.0 | | 26 | 89.7% | 56.2 | 89.7% | | | |
| Adult Female | 0 | | 0.0 | | 2 | 6.9% | 4.3 | 6.9% | | | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | | |
| Unknown Sex and Age | 0 | | 0.0 | | 1 | 3.4% | 2.2 | 3.4% | | | |
| Total | 0 | | 0.0 | | 29 | 100.0% | 62.6 | 100.0% | | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | IARBO | R SEA | L |
|-------------|----------------|-------------|-------------|------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | Year | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 36.9 | 0.0 | 36.9 |
| 1993 | 0.0 | 12.7 | 12.7 | 1993 | 6.0 | 1.0 | 7.0 |
| 1994 | 1.1 | 0.0 | 1.1 | 1994 | 7.6 | 0.0 | 7.6 |
| 1995 | 2.2 | 0.0 | 2.2 | 1995 | 8.8 | 0.0 | 8.8 |
| 1996 | 3.0 | 0.0 | 3.0 | 1996 | 9.0 | 0.0 | 9.0 |
| 1997 | 3.0 | 0.0 | 3.0 | 1997 | 13.0 | 0.0 | 13.0 |
| 1998 | 0.0 | 1.0 | 1.0 | 1998 | 11.0 | 0.0 | 11.0 |
| 2000 | 2.4 | 0.0 | 2.4 | 2000 | 21.6 | 4.8 | 26.4 |
| 2001 | 2.5 | 0.0 | 2.5 | 2001 | 17.5 | 0.0 | 17.5 |
| 2002 | 2.5 | 0.0 | 2.5 | 2002 | 17.5 | 0.0 | 17.5 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 32.0 | 6.0 | 38.0 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 21.0 | 4.5 | 25.5 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 10.8 | 0.0 | 10.8 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 10.8 | 0.0 | 10.8 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 21.3 | 2.2 | 23.6 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 62.6 | 8.6 | 71.3 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2009.

Table 32. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Larsen Bay, 2008

CENSUS Total Native Households 28
Surveyed Households 27

Sampling Fraction 96.4% Sample Household Members 67 Estimated Household Members 69.5

2000 U.S. Census Estimated Native Population
HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest

Harbor and Take (Expanded): Sea Harbor Seal Lion Lion <u>Seal</u> Used 0.0% **Total Number Harvested** 44 4% 0.0 5.2 Hunted Total Number Struck and Lost 0.0% 18.5% 0.0 0.0 Total Number Taken Harvested 0.0% 18.5% 0.0 5.2 Received 0.0% 29.6% Number Harvested Per Capita Gave Away 0.0% 22.2% 0.00 0.06

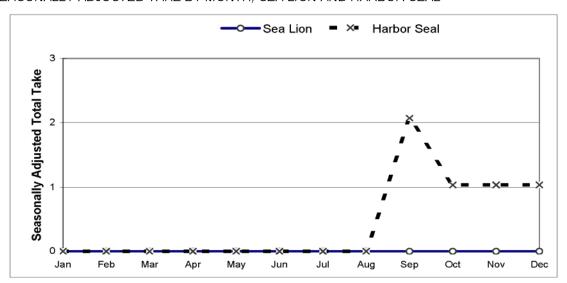
SEA LION HARVEST BY MONTH Unknown Month May Aug Sep Oct Dec Total Feb Mar Jun Nov Jan REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Harvest Struck & Lost Ω 0 0 0 0 0 0 0 0 0 0 0 0 0 Total Take 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Harvest 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED) 0.0 0.0 0.0 0.0 Harvest 0.0 0.0 0.0 0.0 0.0 0.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take (%) ------Cum. Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Cum. Take (%)

| HARBOR S | IARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|--------------------------------------|---------|---------|--------|---------|--------|---------|--------|---------|-------|-------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | AKE BY | SAMPL | ED HOL | JSEHOL | DS (UNI | EXPANI | DED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 5 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 1 | 0 | 5 |
| ESTIMATED H | HARVES | T AND T | TAKE BY | COMM | UNITY (| EXPANI | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 1.0 | 1.0 | 1.0 | 0.0 | 5.2 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 1.0 | 1.0 | 1.0 | 0.0 | 5.2 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HARV | 'EST AN | D TAKE | BY CO | мм∪иг | ΓΥ (EXP | ANDED |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 1.0 | 1.0 | 1.0 | | 5.2 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 1.0 | 1.0 | 1.0 | | 5.2 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 40.0% | 20.0% | 20.0% | 20.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 3.1 | 4.1 | 5.2 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 40.0% | 60.0% | 80.0% | 100.0% | | |

Table 32. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Larsen Bay, 2008

| | | Sea | a Lion | | Harbor Seal | | | | | |
|----------------------|---------|------|---------|---------|-------------|--------|--------|-----------|--|--|
| | Reporte | d by | Communi | ty Est. | Report | ed by | Commu | nity Est. | | |
| | Samp | ole | (Expand | ded) | Sam | ple | (Expa | ınded) | | |
| | Number | % | Number | % | Number | % | Number | % | | |
| Adult Male | 0 | | 0.0 | | 5 | 100.0% | 5.2 | 100.0% | | |
| Adult Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | | |
| Total | 0 | | 0.0 | | 5 | 100.0% | 5.2 | 100.0% | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|---------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> |
| 1992 | 1.1 | 0.0 | 1.1 | 1992 | 6.5 | 0.0 | 6.5 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 7.7 | 5.5 | 13.2 |
| 1994 | 2.2 | 0.0 | 2.2 | 1994 | 13.4 | 2.2 | 15.7 |
| 1995 | 2.0 | 1.0 | 3.0 | 1995 | 11.0 | 0.0 | 11.0 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 15.0 | 0.0 | 15.0 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 9.8 | 4.2 | 13.9 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 1.7 | 0.0 | 1.7 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 18.6 | 0.0 | 18.6 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 9.0 | 1.1 | 10.2 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 3.3 | 0.0 | 3.3 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 2.5 | 0.0 | 2.5 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 12.5 | 0.0 | 12.5 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 17.0 | 0.0 | 17.0 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 20.3 | 0.0 | 20.3 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 8.6 | 0.0 | 8.6 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 5.2 | 0.0 | 5.2 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2009.

Table 33. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Old Harbor, 2008

CENSUS Total Native Households 75
Surveyed Households 64

Sampling Fraction 85.3%
Sample Household Members 173
Estimated Household Members 202.7

203

2000 U.S. Census Estimated Native Population

HARVEST AND USE INFORMATION

| Percentage of Sample F | louse | holds: | Estimated Community Harvest | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 56.3% | 79.7% | Total Number Harvested | 7.0 | 35.2 |
| Hunted | 9.4% | 20.3% | Total Number Struck and Lost | 3.5 | 3.5 |
| Harvested | 7.8% | 20.3% | Total Number Taken | 10.5 | 38.7 |
| Received | 56.3% | 79.7% | | | |
| Gave Away | 53.1% | 71.9% | Number Harvested Per Capita | 0.03 | 0.17 |

| SEA LION I | EA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|----------------------------------|----------|----------|----------|----------|--------|-------|--------|--------|--------|-------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | RVEST ANI | D TAKE B | Y SAMPLI | ED HOUSI | EHOLDS (| UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 2 | 0 | 6 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 3 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 0 | 3 | 0 | 9 |
| ESTIMATED H | HARVES | T AND T | AKE BY | сомм | UNITY (| EXPAND | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 3.5 | 0.0 | 2.3 | 0.0 | 7.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 1.2 | 0.0 | 1.2 | 0.0 | 3.5 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 4.7 | 0.0 | 3.5 | 0.0 | 10.5 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HARV | EST AN | D TAKE | BY CO | мминіт | Y (EXP | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 3.5 | 0.0 | 2.3 | | 7.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 1.2 | 0.0 | 1.2 | | 3.5 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 4.7 | 0.0 | 3.5 | | 10.5 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 22.2% | 0.0% | 44.4% | 0.0% | 33.3% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 2.3 | 7.0 | 7.0 | 10.5 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 22.2% | 22.2% | 66.7% | 66.7% | 100.0% | | |
| /// 00000 | | 45175 | 0 T 0 V | 1.40.1/- | .,, | | | | | | | | | |

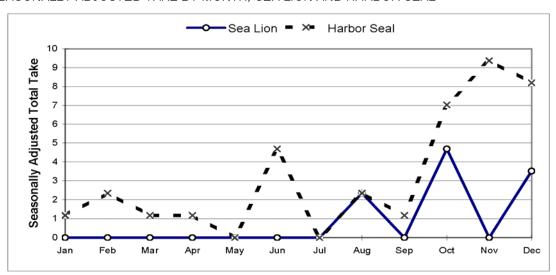
| HARBOR S | HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|--------------------------------------|---------|---------|-------|---------|---------|--------|--------|----------|--------|-------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | AKE BY | SAMPL | .ED HO | JSEHOL | DS (UN | EXPAND | DED) | | | | | |
| Harvest | 1 | 2 | 1 | 1 | 0 | 3 | 0 | 2 | 1 | 6 | 7 | 6 | 0 | 30 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 3 |
| Total Take | 1 | 2 | 1 | 1 | 0 | 4 | 0 | 2 | 1 | 6 | 8 | 7 | 0 | 33 |
| ESTIMATED H | HARVES | T AND | TAKE BY | COMM | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 1.2 | 2.3 | 1.2 | 1.2 | 0.0 | 3.5 | 0.0 | 2.3 | 1.2 | 7.0 | 8.2 | 7.0 | 0.0 | 35.2 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 0.0 | 3.5 |
| Total Take | 1.2 | 2.3 | 1.2 | 1.2 | 0.0 | 4.7 | 0.0 | 2.3 | 1.2 | 7.0 | 9.4 | 8.2 | 0.0 | 38.7 |
| ESTIMATEDS | SEASON | ALLY A | DJUSTE | D HAR | /EST AN | ID TAKE | BY CO | ММИМІ | TY (EXP. | ANDED) | | | | |
| Harvest | 1.2 | 2.3 | 1.2 | 1.2 | 0.0 | 3.5 | 0.0 | 2.3 | 1.2 | 7.0 | 8.2 | 7.0 | | 35.2 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | | 3.5 |
| Total Take | 1.2 | 2.3 | 1.2 | 1.2 | 0.0 | 4.7 | 0.0 | 2.3 | 1.2 | 7.0 | 9.4 | 8.2 | | 38.7 |
| Total Take (%) | 3.0% | 6.1% | 3.0% | 3.0% | 0.0% | 12.1% | 0.0% | 6.1% | 3.0% | 18.2% | 24.2% | 21.2% | | 100.0% |
| Cum. Take | 1.2 | 3.5 | 4.7 | 5.9 | 5.9 | 10.5 | 10.5 | 12.9 | 14.1 | 21.1 | 30.5 | 38.7 | | |
| Cum. Take (%) | 3.0% | 9.1% | 12.1% | 15.2% | 15.2% | 27.3% | 27.3% | 33.3% | 36.4% | 54.5% | 78.8% | 100.0% | | |

SOURCE: ANHSC Household Surveys, (Numbers based on 2007 harvest estimates).

Table 33. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Old Harbor, 2008

| | | Sea | a Lion | | Harbor Seal | | | | | | |
|----------------------|--------|--------|--------|-----------|-------------|--------|--------|-----------|--|--|--|
| | Report | ed by | Commur | nity Est. | Report | ed by | Commu | nity Est. | | | |
| | Sam | ple | (Ехраі | nded) | Sam | ple | (Ехра | nded) | | | |
| | Number | % | Number | % | Number | % | Number | % | | | |
| Adult Male | 6 | 100.0% | 7.0 | 100.0% | 21 | 70.0% | 24.6 | 70.0% | | | |
| Adult Female | 0 | 0.0% | 0.0 | 0.0% | 1 | 3.3% | 1.2 | 3.3% | | | |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | | |
| Juvenile Male | 0 | 0.0% | 0.0 | 0.0% | 8 | 26.7% | 9.4 | 26.7% | | | |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | | |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | | |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | | |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | | |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | | |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | | |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | | |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | | |
| Total | 6 | 100.0% | 7.0 | 100.0% | 30 | 100.0% | 35.2 | 100.0% | | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | IARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 32.9 | 13.2 | 46.1 | 1992 | 86.8 | 5.3 | 92.1 |
| 1993 | 32.1 | 1.0 | 33.2 | 1993 | 67.6 | 2.7 | 70.3 |
| 1994 | 46.2 | 1.3 | 47.5 | 1994 | 83.7 | 1.3 | 85.0 |
| 1995 | 107.1 | 5.7 | 112.9 | 1995 | 112.0 | 2.4 | 114.4 |
| 1996 | 44.9 | 5.3 | 50.2 | 1996 | 113.5 | 1.3 | 114.8 |
| 1997 | 22.7 | 3.6 | 26.3 | 1997 | 0.08 | 4.8 | 84.8 |
| 1998 | 10.3 | 2.3 | 12.6 | 1998 | 55.1 | 1.1 | 56.2 |
| 2000 | 12.9 | 0.0 | 12.9 | 2000 | 59.1 | 0.0 | 59.1 |
| 2001 | 26.3 | 2.2 | 28.5 | 2001 | 71.3 | 0.0 | 71.3 |
| 2002 | 8.5 | 0.0 | 8.5 | 2002 | 40.5 | 0.0 | 40.5 |
| 2003 | 27.6 | 4.4 | 31.9 | 2003 | 66.7 | 2.9 | 69.6 |
| 2004 | 8.3 | 3.5 | 11.8 | 2004 | 37.8 | 5.9 | 43.7 |
| 2005 | 18.2 | 3.2 | 21.4 | 2005 | 37.5 | 1.1 | 38.6 |
| 2006 | 1.1 | 0.0 | 1.1 | 2006 | 20.2 | 0.0 | 20.2 |
| 2007 | 7.0 | 3.5 | 10.5 | 2007 | 35.2 | 3.5 | 38.7 |
| 2008 | 7.0 | 3.5 | 10.5 | 2008 | 35.2 | 3.5 | 38.7 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2009. (Numbers based on 2007 harvest estimates).

Table 34. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ouzinkie, 2008

SAMPLING DESIGN: CHAIN REFERRAL

RAL Total Native Households 29
Surveyed Households 28
Sampling Fraction 96.6%
Sample Household Members 93
Estimated Household Members 95.9
2000 U.S. Census Estimated Native Population 197

HARVEST AND USE INFORMATION

| Percentage of Sample F | louse | holds: | Estimated Community Harvest | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 0.0% | 100.0% | Total Number Harvested | 0.0 | 32.1 |
| Hunted | 0.0% | 82.1% | Total Number Struck and Lost | 0.0 | 3.1 |
| Harvested | 0.0% | 57.1% | Total Number Taken | 0.0 | 35.2 |
| Received | 0.0% | 67.9% | | | |
| Gave Away | 0.0% | 60.7% | Number Harvested Per Capita | 0.00 | 0.16 |

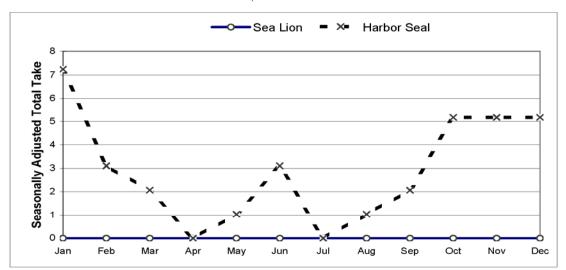
| SEA LION F | SEA LION HARVEST BY MONTH | | | | | | | | | | | | | |
|----------------|---------------------------|---------|----------|---------|----------|---------|--------|--------|---------|-------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HARV | /EST AND | TAKE B | Y SAMPLE | D HOUSE | HOLDS (| UNEXPAN | IDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | AND T | AKE BY | СОММ | JNITY (E | EXPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTE | HARV | EST AN | D TAKE | BY COM | имиміт | Y (EXPA | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR SEAL HARVEST BY MONTH Unknown Unknown | | | | | | | | | | | | | | |
|--|--------|---------|---------|--------|----------|---------|--------|--------|---------|--------|-------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED I | HARVES | T AND | TAKE BY | 'SAMPI | ED HO | JSEHOL | DS (UN | EXPANI | DED) | | | | | |
| Harvest | 7 | 2 | 1 | 0 | 1 | 2 | 0 | 1 | 2 | 5 | 5 | 5 | 0 | 31 |
| Struck & Lost | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total Take | 7 | 3 | 2 | 0 | 1 | 3 | 0 | 1 | 2 | 5 | 5 | 5 | 0 | 34 |
| ESTIMATED | HARVES | T AND | TAKE B | Y COMM | IUNITY (| (EXPAN | DED) | | | | | | | |
| Harvest | 7.3 | 2.1 | 1.0 | 0.0 | 1.0 | 2.1 | 0.0 | 1.0 | 2.1 | 5.2 | 5.2 | 5.2 | 0.0 | 32.1 |
| Struck & Lost | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 |
| Total Take | 7.3 | 3.1 | 2.1 | 0.0 | 1.0 | 3.1 | 0.0 | 1.0 | 2.1 | 5.2 | 5.2 | 5.2 | 0.0 | 35.2 |
| ESTIMATED | SEASON | NALLY A | DJUSTE | D HAR | /EST AN | ND TAKE | BY CC | имим | TY (EXP | ANDED) |) | | | |
| Harvest | 7.3 | 2.1 | 1.0 | 0.0 | 1.0 | 2.1 | 0.0 | 1.0 | 2.1 | 5.2 | 5.2 | 5.2 | | 32.1 |
| Struck & Lost | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 3.1 |
| Total Take | 7.3 | 3.1 | 2.1 | 0.0 | 1.0 | 3.1 | 0.0 | 1.0 | 2.1 | 5.2 | 5.2 | 5.2 | | 35.2 |
| Total Take (%) | 20.6% | 8.8% | 5.9% | 0.0% | 2.9% | 8.8% | 0.0% | 2.9% | 5.9% | 14.7% | 14.7% | 14.7% | | 100.0% |
| Cum. Take | 7.3 | 10.4 | 12.4 | 12.4 | 13.5 | 16.6 | 16.6 | 17.6 | 19.7 | 24.9 | 30.0 | 35.2 | | |
| Cum. Take (%) | 20.6% | 29.4% | 35.3% | 35.3% | 38.2% | 47.1% | 47.1% | 50.0% | 55.9% | 70.6% | 85.3% | 100.0% | | |

Table 34. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ouzinkie, 2008

| | | Sea | a Lion | | Harbor Seal | | | | |
|----------------------|---------|------|---------|---------|-------------|--------|--------|-----------|--|
| | Reporte | d by | Communi | ty Est. | Report | ed by | Commu | nity Est. | |
| | Samp | ole | (Expand | ded) | Sam | ple | (Expai | nded) | |
| | Number | % | Number | % | Number | % | Number | % | |
| Adult Male | 0 | | 0.0 | | 27 | 87.1% | 28.0 | 87.1% | |
| Adult Female | 0 | | 0.0 | | 3 | 9.7% | 3.1 | 9.7% | |
| Adult Unknown Sex | 0 | | 0.0 | | 1 | 3.2% | 1.0 | 3.2% | |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | |
| Total | 0 | | 0.0 | | 31 | 100.0% | 32.1 | 100.0% | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| SEA LION | | | | H | HARBO | R SEA | L. |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 3.4 | 0.0 | 3.4 | 1992 | 21.8 | 1.1 | 23.0 |
| 1993 | 5.4 | 2.2 | 7.6 | 1993 | 41.2 | 8.7 | 49.8 |
| 1994 | 4.4 | 2.9 | 7.3 | 1994 | 33.4 | 0.0 | 33.4 |
| 1995 | 15.6 | 0.0 | 15.6 | 1995 | 56.1 | 0.0 | 56.1 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 16.7 | 2.6 | 19.3 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 55.2 | 9.4 | 64.6 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 82.0 | 2.5 | 84.5 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 43.0 | 1.0 | 44.0 |
| 2001 | 2.6 | 0.0 | 2.6 | 2001 | 33.4 | 2.6 | 36.0 |
| 2002 | 5.1 | 0.0 | 5.1 | 2002 | 63.4 | 10.2 | 73.6 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 48.8 | 4.1 | 52.8 |
| 2004 | 2.6 | 0.0 | 2.6 | 2004 | 73.0 | 3.9 | 76.9 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 136.6 | 9.5 | 146.1 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 49.0 | 9.1 | 58.1 |
| 2007 | 2.1 | 0.0 | 2.1 | 2007 | 49.5 | 0.0 | 49.5 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 32.1 | 3.1 | 35.2 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2009.

Table 35. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Port Lions, 2008

CHAIN REFERRAL Total Referred Households 15
Surveyed Households 15
Sampling Fraction 100.0%

Sample Household Members 40
Estimated Household Members 40.0
2000 U.S. Census Estimated Native Population 163

HARVEST AND USE INFORMATION

Percentage of Sample Households: Estimated Community Harvest

and Take (Expanded): Harbor Sea Harbor Sea **Lion** Seal <u>Lion</u> <u>Seal</u> Total Number Harvested Used 13.3% 40.0% 3.0 20.0 Total Number Struck and Lost Hunted 13.3% 40.0% 0.0 6.0 Total Number Taken Harvested 13.3% 3.0 26.0 33.3% Received 0.0% 20.0% Number Harvested Per Capita Gave Away 13.3% 26.7% 0.02 0.12

SEA LION HARVEST BY MONTH Unknown Jul Aug Sep Oct Nov Dec Month Total REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED) Harvest 1 0 0 0 0 0 0 Ω 0 0 0 3 0 Struck & Lost 0 0 0 0 0 0 0 0 0 0 0 0 0 Total Take 1 0 0 0 0 0 0 0 0 3 1 ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED) Harvest 1.0 0.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 3.0 1.0 0.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED) Harvest 1.0 0.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 1.0 0.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 3.0 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 100.0% Total Take (%) 33.3% 33.3% 33.3% Cum. Take 1.0 1.0 20 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 33.3% Cum. Take (%) 33.3% 66.7% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

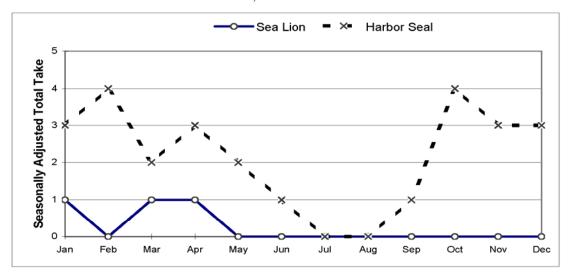
| HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|--------------------------------------|--------|---------|---------|---------|---------|---------|--------|-------|---------|-------|-------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | HARVES | T AND | TAKE BY | / SAMPI | ED HO | JSEHOI | DS (UN | EXPAN | DED) | | | | | |
| Harvest | 2 | 3 | 1 | 3 | 2 | 1 | 0 | 0 | 1 | 3 | 2 | 2 | 0 | 20 |
| Struck & Lost | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 6 |
| Total Take | 3 | 4 | 2 | 3 | 2 | 1 | 0 | 0 | 1 | 4 | 3 | 3 | 0 | 26 |
| ESTIMATED | HARVES | ST AND | TAKE B | Y COMM | UNITY | (EXPAN | DED) | | | | | | | |
| Harvest | 2.0 | 3.0 | 1.0 | 3.0 | 2.0 | 1.0 | 0.0 | 0.0 | 1.0 | 3.0 | 2.0 | 2.0 | 0.0 | 20.0 |
| Struck & Lost | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 0.0 | 6.0 |
| Total Take | 3.0 | 4.0 | 2.0 | 3.0 | 2.0 | 1.0 | 0.0 | 0.0 | 1.0 | 4.0 | 3.0 | 3.0 | 0.0 | 26.0 |
| ESTIMATED | SEASON | NALLY A | DJUSTE | D HAR | /EST AN | ND TAKE | BY CC | ммилі | TY (EXP | ANDED |) | | | |
| Harvest | 2.0 | 3.0 | 1.0 | 3.0 | 2.0 | 1.0 | 0.0 | 0.0 | 1.0 | 3.0 | 2.0 | 2.0 | | 20.0 |
| Struck & Lost | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | | 6.0 |
| Total Take | 3.0 | 4.0 | 2.0 | 3.0 | 2.0 | 1.0 | 0.0 | 0.0 | 1.0 | 4.0 | 3.0 | 3.0 | | 26.0 |
| Total Take (%) | 11.5% | 15.4% | 7.7% | 11.5% | 7.7% | 3.8% | 0.0% | 0.0% | 3.8% | 15.4% | 11.5% | 11.5% | | 100.0% |
| Cum. Take | 3.0 | 7.0 | 9.0 | 12.0 | 14.0 | 15.0 | 15.0 | 15.0 | 16.0 | 20.0 | 23.0 | 26.0 | | |
| Cum. Take (%) | 11.5% | 26.9% | 34.6% | 46.2% | 53.8% | 57.7% | 57.7% | 57.7% | 61.5% | 76.9% | 88.5% | 100.0% | | |

SOURCE: ANHSC Household Surveys, 2009

Table 35. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Lions, 2008

| | | S | sea Lion | | | Har | bor Seal | |
|----------------------|--------|--------|----------|-----------|--------|--------|----------|-----------|
| | Report | ed by | Commur | nity Est. | Report | ed by | Commur | nity Est. |
| | Sam | nple | (Expai | nded) | Sam | ple | (Expar | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | 0.0% | 0.0 | 0.0% | 12 | 60.0% | 12.0 | 60.0% |
| Adult Female | 0 | 0.0% | 0.0 | 0.0% | 5 | 25.0% | 5.0 | 25.0% |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 3 | 15.0% | 3.0 | 15.0% |
| Juvenile Male | 3 | 100.0% | 3.0 | 100.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Total | 3 | 100.0% | 3.0 | 100.0% | 20 | 100.0% | 20.0 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 1.1 | 2.2 | 3.3 | 1992 | 36.9 | 2.2 | 39.1 |
| 1993 | 4.0 | 1.0 | 5.0 | 1993 | 26.0 | 1.0 | 27.0 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 8.0 | 0.0 | 8.0 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 2.0 | 0.0 | 2.0 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 4.0 | 0.0 | 4.0 |
| 1997 | 1.0 | 0.0 | 1.0 | 1997 | 5.0 | 0.0 | 5.0 |
| 1998 | 1.0 | 0.0 | 1.0 | 1998 | 6.0 | 0.0 | 6.0 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 6.4 | 0.0 | 6.4 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 8.8 | 1.1 | 9.9 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 13.0 | 0.0 | 13.0 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 12.9 | 0.0 | 12.9 |
| 2004 | 1.2 | 0.0 | 1.2 | 2004 | 20.6 | 0.0 | 20.6 |
| 2005 | 3.7 | 0.0 | 3.7 | 2005 | 77.0 | 0.0 | 77.0 |
| 2006 | 3.7 | 0.0 | 3.7 | 2006 | 77.0 | 0.0 | 77.0 |
| 2007 | 3.7 | 0.0 | 3.7 | 2007 | 77.0 | 0.0 | 77.0 |
| 2008 | 3.0 | 0.0 | 3.0 | 2008 | 20.0 | 6.0 | 26.0 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2009.

Table 36. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Chignik Bay, 2008

CENSUS Total Native Households 16

Surveyed Households 14 Sampling Fraction 87.5% Sample Household Members 36

41.1

Number Harvested Per Capita

0.00

0.05

Estimated Household Members 2000 U.S. Census Estimated Native Population 48

HARVEST AND USE INFORMATION

Gave Away

0.0%

7.1%

Percentage of Native Households: Estimated Community Harvest

Harbor and Take (Expanded): Sea Harbor <u>Lion</u> <u>Seal</u> <u>Lion</u> <u>Seal</u> Total Number Harvested Used 14.3% 0.0% 0.0 2.3 Total Number Struck and Lost Hunted 0.0% 7.1% 0.0 0.0 Harvested Total Number Taken 0.0% 7.1% 2.3 Received 0.0% 7 1%

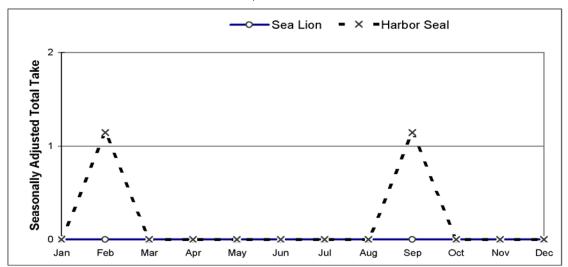
SEA LION HARVEST BY MONTH Unknown Apr May Jun Jul Aug Sep Oct Nov Dec Month Total REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED) 0 0 0 0 0 0 0 Harvest 0 0 0 0 0 0 0 Struck & Lost 0 0 0 0 0 0 0 0 0 0 0 Total Take 0 0 0 0 0 0 0 0 0 0 0 0 0 0 ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED) Harvest 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED) Harvest 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take (%) ---Cum. Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Cum. Take (%)

| HARBOR S | HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|--------------------------------------|---------|---------|--------|--------|--------|---------|--------|----------|---------|--------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND | TAKE B | YSAMP | LED HO | USEHO | LDS (UI | NEXPAN | NDED) | | | | | |
| Harvest | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| ESTIMATED H | HARVES | ST AND | TAKE B | Y COM | MUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 |
| ESTIMATEDS | SEASO | NALLY A | ADJUSTI | ED HAR | VEST A | ND TAK | E BY C | омми | ITY (EXF | PANDED) |) | | | |
| Harvest | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | | 2.3 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | | 2.3 |
| Total Take (%) | 0.0% | 50.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 50.0% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 2.3 | 2.3 | 2.3 | 2.3 | | |
| Cum. Take (%) | 0.0% | 50.0% | 50.0% | 50.0% | 50.0% | 50.0% | 50.0% | 50.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 36. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chignik Bay, 2008

| | | Se | a Lion | | | Harbo | r Seal | |
|----------------------|---------|------|--------|----------|---------|--------|--------|-----------|
| | Reporte | d by | Commun | ity Est. | Reporte | d by | Commu | nity Est. |
| | Samp | le | (Expan | ded) | Samp | ole | (Expai | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Adult Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Adult Unknown Sex | 0 | | 0.0 | | 2 | 100.0% | 2.3 | 100.0% |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 2 | 100.0% | 2.3 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | HARBO | OR SEA | L |
|-------------|----------------|-------------|-------------|-----------|-------------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Ye</u> | <u>ar Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 19 | 92 2.4 | 1.2 | 3.6 |
| 1993 | 0.0 | 0.0 | 0.0 | 19 | 93 6.3 | 5.0 | 11.3 |
| 1994 | 0.0 | 0.0 | 0.0 | 19 | 94 3.4 | 0.0 | 3.4 |
| 1995 | 0.0 | 0.0 | 0.0 | 19 | 95 0.0 | 0.0 | 0.0 |
| 1996 | 0.0 | 0.0 | 0.0 | 19 | 96 1.0 | 0.0 | 1.0 |
| 1997 | 0.0 | 0.0 | 0.0 | 19 | 97 0.0 | 0.0 | 0.0 |
| 1998 | 0.0 | 0.0 | 0.0 | 19 | 98 0.0 | 0.0 | 0.0 |
| 2000 | 0.0 | 0.0 | 0.0 | 20 | 0.0 | 0.0 | 0.0 |
| 2001 | 0.0 | 0.0 | 0.0 | 20 | 0.0 | 0.0 | 0.0 |
| 2002 | 0.0 | 0.0 | 0.0 | 20 | 02 1.3 | 0.0 | 1.3 |
| 2003 | 0.0 | 0.0 | 0.0 | 20 | 03 2.8 | 0.0 | 2.8 |
| 2004 | 0.0 | 0.0 | 0.0 | 20 | 0.0 | 0.0 | 0.0 |
| 2005 | 0.0 | 0.0 | 0.0 | 20 | 0.0 | 0.0 | 0.0 |
| 2006 | 0.0 | 0.0 | 0.0 | 20 | 06 4.3 | 1.4 | 5.8 |
| 2007 | 0.0 | 0.0 | 0.0 | 20 | 07 4.3 | 0.0 | 4.3 |
| 2008 | 0.0 | 0.0 | 0.0 | 20 | 08 2.3 | 0.0 | 2.3 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2000-2009.

Table 37. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES:

| (| hignikد | Lagoon, | 2008 |
|----------|---------|---------|------|
| SAMPLING | DESIGN | V: | |

| SAMPLING DESIGN: | | |
|------------------|--------------------------|-------|
| CENSUS | Total Native Households | 25 |
| | Surveyed Households | 17 |
| | Sampling Fraction | 68.0% |
| | Sample Household Members | 47 |
| | | 00.4 |

Estimated Household Members 69.1 2000 U.S. Census Estimated Native Population 85

HARVEST AND USE INFORMATION

| Percentage of Native Househ | iolds: | Estimated Community Harvest |
|-----------------------------|--------|-----------------------------|
| Sea | Harbor | and Take (Expanded): |

Sea Harbor and Take (Expanded): Lion <u>Seal</u> <u>Seal</u> <u>Lion</u> Used 0.0% 0.0% Total Number Harvested 0.0 0.0 Hunted 0.0% Total Number Struck and Lost 0.0 0.0% 0.0 Harvested 0.0% Total Number Taken 0.0 0.0% 0.0 Received 0.0% 0.0% Gave Away 0.0% Number Harvested Per Capita 0.00 0.0% 0.00

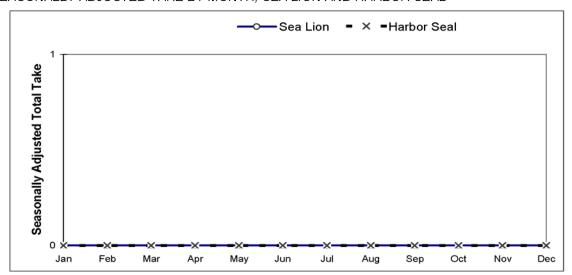
| SEA LION F | IARVE | ST BY | MON' | TH | | | | | | | | Į | Jnknown | |
|----------------|----------|---------|----------|---------|----------|---------|-------|--------|----------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | /EST AND | TAKE B | Y SAMPLE | ED HOUS | EHOLDS (| (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES | T AND T | AKE BY | СОММ | UNITY (| EXPANI | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | DJUSTE | D HAR\ | /EST AN | D TAKE | BY CO | мминіт | ΓΥ (EXPA | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR S. | EAL H, | ARVE | ST BY . | MONT | Н | | | | | | | Ų | Jnknown | |
|----------------|--------|---------|---------|--------|---------|--------|--------|--------|----------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | ARVEST | AND T | AKE BY | SAMPL | ED HOL | ISEHOL | DS (UN | EXPAN | DED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES | T AND T | AKE BY | СОММ | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | JUSTEI | O HAR√ | EST AN | D TAKE | BY CO | ММИМІТ | ΓΥ (EXPA | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

Table 37. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chignik Lagoon, 2008

| | | Se | ea Lion | | | Harb | or Seal | |
|----------------------|---------|------|---------|-----------|---------|------|---------|---------|
| | Reporte | d by | Commu | nity Est. | Reporte | d by | Communi | ty Est. |
| | Samp | le | (Expar | nded) | Samp | ole | (Expan | ded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Adult Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Male Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Female Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Total | 0 | | 0.0 | | 0 | | 0.0 | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | ı | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 4.0 | 0.0 | 4.0 |
| 1993 | 1.1 | 0.0 | 1.1 | 1993 | 4.3 | 1.1 | 5.3 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 0.0 | 1.0 | 1.0 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 0.0 | 0.0 | 0.0 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 0.0 | 0.0 | 0.0 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 1.3 | 1.3 | 2.7 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 0.0 | 0.0 | 0.0 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 1.2 | 0.0 | 1.2 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 1.1 | 0.0 | 1.1 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 0.0 | 0.0 | 0.0 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 0.0 | 0.0 | 0.0 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 1.1 | 0.0 | 1.1 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 0.0 | 0.0 | 0.0 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 0.0 | 0.0 | 0.0 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 0.0 | 0.0 | 0.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 0.0 | 0.0 | 0.0 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2000-2009.

Table 38. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Chignik Lake, 2008

CENSUS Total Native Households 19
Surveyed Households 15

Sampling Fraction 78.9% Sample Household Members 42 Estimated Household Members 52.8

2000 U.S. Census Estimated Native Population 127

HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest Sea Harbor and Take (Expanded): Sea Harbor <u>Lion</u> <u>Seal</u> <u>Lion</u> <u>Seal</u> Used 0.0% 40.0% Total Number Harvested 0.0 20.3 Hunted 0.0% 40.0% Total Number Struck and Lost 0.0 0.0 Harvested 0.0% Total Number Taken 0.0 40.0% 20.3

Received 0.0% 13.3% Gave Away 0.0% 13.3%

Number Harvested Per Capita 0.00 0.16

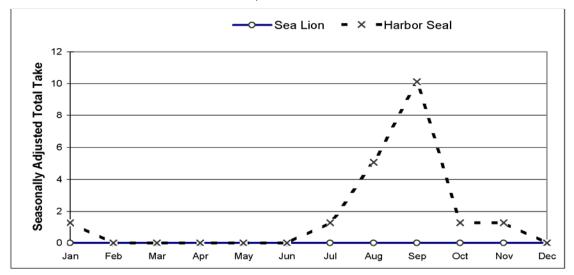
| SEA LION HARVEST BY MONTH | | | | | | | | | | | | | | |
|---------------------------|----------|---------|----------|---------|----------|----------|-------|------|---------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | /EST AND | TAKE B | Y SAMPLE | ED HOUS | EHOLDS (| (UNEXPAI | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES | T AND T | AKE BY | COMM | UNITY (| EXPAND | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | DJUSTE | D HARV | EST AN | D TAKE | BY CO | ММИП | Y (EXPA | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |
| HARBOR S | EAL H. | ARVE | ST BY | MONT | Н | | | | | | | Ţ | Jnknown | |

| HARBOR S | SEAL H | IARVE | ST BY | MON7 | Ή | | | | | | | l | Jnknown | |
|----------------|--------|---------|---------|-------|---------|--------|---------|--------|---------|--------|--------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | HARVES | T AND T | AKE BY | SAMPL | ED HO | JSEHO | LDS (UN | NEXPAN | DED) | | | | | |
| Harvest | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 8 | 1 | 1 | 0 | 0 | 16 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 8 | 1 | 1 | 0 | 0 | 16 |
| ESTIMATED I | HARVES | TAND | TAKE BY | COMM | UNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 5.1 | 10.1 | 1.3 | 1.3 | 0.0 | 0.0 | 20.3 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 5.1 | 10.1 | 1.3 | 1.3 | 0.0 | 0.0 | 20.3 |
| ESTIMATED S | SEASON | IALLY A | DJUSTE | D HAR | /EST AN | ND TAK | E BY CC | оммии | TY (EXP | ANDED) |) | | | |
| Harvest | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 5.1 | 10.1 | 1.3 | 1.3 | 0.0 | | 20.3 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 5.1 | 10.1 | 1.3 | 1.3 | 0.0 | | 20.3 |
| Total Take (%) | 6.3% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 6.3% | 25.0% | 50.0% | 6.3% | 6.3% | 0.0% | | 100.0% |
| Cum. Take | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 2.5 | 7.6 | 17.7 | 19.0 | 20.3 | 20.3 | | |
| Cum. Take (%) | 6.3% | 6.3% | 6.3% | 6.3% | 6.3% | 6.3% | 12.5% | 37.5% | 87.5% | 93.8% | 100.0% | 100.0% | | |

Table 38. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chignik Lake, 2008

| | | Se | ea Lion | | | Har | bor Seal | |
|----------------------|---------|------|---------|----------|---------|--------|----------|-----------|
| | Reporte | d by | Commun | ity Est. | Reporte | ed by | Commur | nity Est. |
| | Samp | ole | (Expan | ded) | Samp | ole | (Expar | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 11 | 68.8% | 13.9 | 68.8% |
| Adult Female | 0 | | 0.0 | | 1 | 6.3% | 1.3 | 6.3% |
| Adult Unknown Sex | 0 | | 0.0 | | 1 | 6.3% | 1.3 | 6.3% |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 3 | 18.8% | 3.8 | 18.8% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 16 | 100.0% | 20.3 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | ı | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 8.3 | 2.1 | 10.3 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 15.2 | 5.5 | 20.8 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 20.8 | 1.3 | 22.1 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 3.2 | 1.1 | 4.3 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 3.5 | 0.0 | 3.5 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 2.2 | 1.1 | 3.3 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 1.9 | 0.0 | 1.9 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 3.3 | 0.0 | 3.3 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 1.3 | 1.3 | 2.6 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 2.9 | 0.0 | 2.9 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 8.9 | 3.0 | 11.8 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 6.7 | 3.3 | 10.0 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 3.6 | 1.2 | 4.8 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 0.0 | 2.9 | 2.9 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 8.1 | 0.0 | 8.1 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 20.3 | 0.0 | 20.3 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2000-2009.

Table 39. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: False Pass, 2008

CENSUS Total Native Households 11

Surveyed Households 8 Sampling Fraction 72.7%

42

Sample Household Members 27
Estimated Household Members 37.1

2000 U.S. Census Estimated Native Population

HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest

Sea Harbor and Take (Expanded): Sea Harbor <u>Lion</u> <u>Seal</u> <u>Seal</u> <u>Lion</u> Used 0.0% 75.0% Total Number Harvested 0.0 2.8 Hunted 12.5% Total Number Struck and Lost 0.0 Harvested 0.0% Total Number Taken 12.5% 2.8 Received 0.0% 62.5%

Gave Away 0.0% 12.5% Number Harvested Per Capita 0.00 0.07

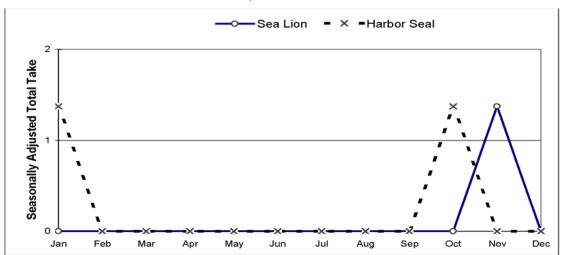
| SEA LION I | SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|-----------------------------------|----------|---------|---------|---------|---------|-------|-------|---------|--------|--------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | RVEST AN | D TAKE B | Y SAMPL | ED HOUS | EHOLDS | (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| ESTIMATED H | HARVES | TAND | TAKE BY | COMM | IUNITY | (EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 1.4 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 1.4 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HAR | /EST AN | ND TAKE | BY CC | ммині | TY (EXP | ANDED) |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | | 1.4 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | | 1.4 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | | |

| HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|--------------------------------------|--------|---------|--------|--------|--------|--------|---------|--------|----------|--------|--------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED I | HARVES | ST AND | TAKE B | YSAMP | LED HO | USEHO | LDS (UI | NEXPAN | IDED) | | | | | |
| Harvest | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| ESTIMATED | HARVES | ST AND | TAKE B | Y COM | JUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 2.8 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 2.8 |
| ESTIMATED | SEASO | NALLY A | DJUSTI | ED HAR | VEST A | ND TAK | E BY C | OMMUN | ITY (EXF | PANDED |) | | | |
| Harvest | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | | 2.8 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | | 2.8 |
| Total Take (%) | 50.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 50.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 2.8 | 2.8 | 2.8 | | |
| Cum. Take (%) | 50.0% | 50.0% | 50.0% | 50.0% | 50.0% | 50.0% | 50.0% | 50.0% | 50.0% | 100.0% | 100.0% | 100.0% | | |

Table 39. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: False Pass, 2008

| | | Se | a Lion | | | Harbo | r Seal | |
|----------------------|---------|------|---------|---------|---------|--------|--------|-----------|
| | Reporte | d by | Communi | ty Est. | Reporte | d by | Commu | nity Est. |
| | Samp | ole | (Expand | ded) | Samp | ole | (Expai | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 1 | 50.0% | 1.4 | 50.0% |
| Adult Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | | 0.0 | | 1 | 50.0% | 1.4 | 50.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 2 | 100.0% | 2.8 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| SEA LION | | | ı | L | | | | |
|-------------|----------------|-------------|-------------|---|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | • | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | | 1992 | 18.0 | 0.0 | 18.0 |
| 1993 | 0.0 | 0.0 | 0.0 | | 1993 | 19.0 | 0.0 | 19.0 |
| 1994 | 0.0 | 0.0 | 0.0 | | 1994 | 12.6 | 2.1 | 14.7 |
| 1995 | 0.0 | 0.0 | 0.0 | | 1995 | 25.9 | 1.2 | 27.1 |
| 1996 | 0.0 | 0.0 | 0.0 | | 1996 | 13.9 | 0.0 | 13.9 |
| 1997 | 0.0 | 0.0 | 0.0 | | 1997 | 8.0 | 0.0 | 8.0 |
| 1998 | 0.0 | 0.0 | 0.0 | | 1998 | 17.8 | 1.3 | 19.1 |
| 2000 | 0.0 | 0.0 | 0.0 | | 2000 | 2.5 | 1.2 | 3.7 |
| 2001 | 0.0 | 0.0 | 0.0 | | 2001 | 2.5 | 1.2 | 3.7 |
| 2002 | 0.0 | 0.0 | 0.0 | | 2002 | 2.5 | 0.0 | 2.5 |
| 2003 | 0.0 | 0.0 | 0.0 | | 2003 | 2.8 | 0.0 | 2.8 |
| 2004 | 0.0 | 0.0 | 0.0 | | 2004 | 2.8 | 0.0 | 2.8 |
| 2005 | 0.0 | 0.0 | 0.0 | | 2005 | 5.7 | 0.0 | 5.7 |
| 2006 | 0.0 | 0.0 | 0.0 | | 2006 | 0.0 | 0.0 | 0.0 |
| 2007 | 0.0 | 0.0 | 0.0 | | 2007 | 1.0 | 0.0 | 1.0 |
| 2008 | 0.0 | 1.4 | 1.4 | | 2008 | 2.8 | 0.0 | 2.8 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2000-2009.

Table 40. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ivanof Bay, 2008

| SAMPLING DESIGN: | | |
|------------------|------------------------------------|------|
| CENSUS | Total Native Households | 0 |
| | Surveyed Households | 0 |
| | Sampling Fraction | 0.0% |
| | Sample Household Members | 0 |
| | Estimated Household Members | 0.0 |
| 2000 U.S. | Census Estimated Native Populatior | 21 |
| | | |

HARVEST AND USE INFORMATION

| Percentage of Native Ho | ouseh | olds: | Estimated Community Harvest | | |
|-------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 0.0% | 0.0% | Total Number Harvested | 0.0 | 0.0 |
| Hunted | 0.0% | 0.0% | Total Number Struck and Lost | 0.0 | 0.0 |
| Harvested | 0.0% | 0.0% | Total Number Taken | 0.0 | 0.0 |
| Received | 0.0% | 0.0% | | | |
| Gave Away | 0.0% | 0.0% | Number Harvested Per Capita | 0.00 | 0.00 |

| SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|-----------------------------------|----------|---------|----------|--------|----------|---------|-------|--------|----------|-------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | TAKE B | Y SAMPLE | D HOUS | EHOLDS (| (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | IARVES | TANDT | AKE BY | СОММ | UNITY (| EXPANI | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY AI | DJUSTE |) HARV | EST AN | D TAKE | BY CO | ММИМІТ | ΓΥ (EXPA | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

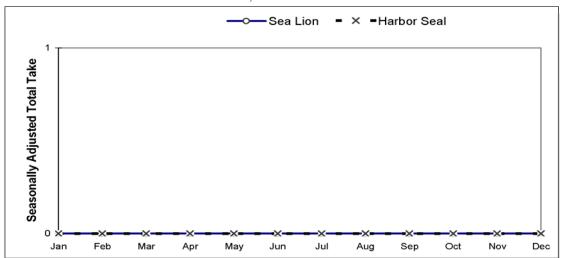
| HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|--------------------------------------|--------|---------|--------|--------|---------|--------|--------|--------|----------|--------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | ARVEST | AND T | AKE BY | SAMPL | ED HOU | JSEHOL | DS (UN | EXPAND | DED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES | T AND T | AKE BY | СОММ | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | DJUSTE | D HAR√ | EST AN | D TAKE | BY CO | ММИМІТ | ΓΥ (EXPA | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

SOURCE: AMMC Household Surveys, (No residents lived in Ivanof Bay in 2008).

Table 40. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ivanof Bay, 2008

| THE THE PERSON OF THE PERSON OF | _/\ | | | | | | | |
|---------------------------------|---------|------|---------|---------|------------|------|---------|---------|
| | | Se | a Lion | | | Harb | or Seal | |
| | Reporte | d by | Communi | ty Est. | Reported b | ру | Communi | ty Est. |
| | Samp | ole | (Expand | ded) | Sample | | (Expan | ded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Adult Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Male Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Female Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Total | 0 | | 0.0 | | 0 | | 0.0 | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | ŀ | HARBO | R SEA | L |
|-------------|----------------|---------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 0.0 | 0.0 | 0.0 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 0.0 | 0.0 | 0.0 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 0.0 | 0.0 | 0.0 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 18.7 | 2.7 | 21.3 |
| 1996 | 2.4 | 0.0 | 2.4 | 1996 | 13.2 | 0.0 | 13.2 |
| 1997 | 1.8 | 0.0 | 1.8 | 1997 | 9.0 | 1.8 | 10.8 |
| 1998 | 1.8 | 0.0 | 1.8 | 1998 | 9.0 | 1.8 | 10.8 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 3.2 | 0.0 | 3.2 |
| 2001 | 1.4 | 1.4 | 2.8 | 2001 | 7.0 | 1.4 | 8.4 |
| 2002 | 1.4 | 1.4 | 2.8 | 2002 | 7.0 | 1.4 | 8.4 |
| 2003* | 0.0 | 0.0 | 0.0 | 2003* | 0.0 | 0.0 | 0.0 |
| 2004* | 0.0 | 0.0 | 0.0 | 2004* | 0.0 | 0.0 | 0.0 |
| 2005* | 0.0 | 0.0 | 0.0 | 2005* | 0.0 | 0.0 | 0.0 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 3.0 | 0.0 | 3.0 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 3.0 | 0.0 | 3.0 |
| 2008* | 0.0 | 0.0 | 0.0 | 2008* | 0.0 | 0.0 | 0.0 |

^{*}From 2003-2005 and 2008 there were no year round residents in Ivanof Bay.

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2000-2009.

Table 41. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: King Cove, 2008

SAMPLING DESIGN: CHAIN REFERRAL

RAL Total Referred Households 14
Surveyed Households 11
Sampling Fraction 78.6%
Sample Household Members 37
Estimated Household Members 47.1
2000 U.S. Census Estimated Native Populatior 379

Number Harvested Per Capita 0.00

HARVEST AND USE INFORMATION

Gave Away 0.0%

| Percentage of Sample I | House | holds: | Estimated Community Harvest | | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|--|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor | |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> | |
| Used | 9.1% | 27.3% | Total Number Harvested | 1.3 | 3.8 | |
| Hunted | 9.1% | 18.2% | Total Number Struck and Lost | 0.0 | 0.0 | |
| Harvested | 9.1% | 18.2% | Total Number Taken | 1.3 | 3.8 | |
| Received | 0.0% | 18.2% | | | | |

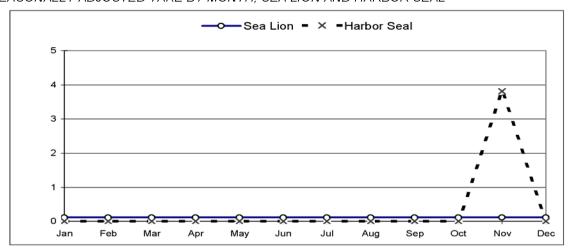
| SEA LION HARVEST BY MONTH | | | | | | | | | | | | | | |
|---------------------------|---------|-----------|----------|--------|---------|--------|---------|--------|----------|--------|-------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AN | ID TAKE E | BY SAMPI | ED HOU | SEHOLDS | (UNEXP | ANDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| ESTIMATED H | HARVES | ST AND | TAKE B | Y COMI | JUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 |
| ESTIMATED S | SEASO | ALLY A | DJUSTI | ED HAR | VEST A | ND TAK | E BY CO | OMMUNI | ITY (EXP | ANDED) | | | | |
| Harvest | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | 1.3 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | 1.3 |
| Total Take (%) | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | | 100.0% |
| Cum. Take | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 8.0 | 1.0 | 1.1 | 1.2 | 1.3 | | |
| Cum. Take (%) | 8.3% | 16.7% | 25.0% | 33.3% | 41.7% | 50.0% | 58.3% | 66.7% | 75.0% | 83.3% | 91.7% | 100.0% | | |
| HARBOR S | SEAL H | JARVE | STRY | MON | TH | | | | | | | ı | Jnknown | |

| | | | | | | | | | | | Jnknown | | | |
|----------------|--------|---------|---------|-------|---------|---------|---------|-------|----------|--------|---------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | AKE BY | SAMPL | ED HO | USEHO | LDS (UN | EXPAN | DED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 |
| ESTIMATED H | HARVES | T AND T | TAKE BY | COMM | UNITY | (EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 2.5 | 3.8 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 2.5 | 3.8 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HAR | /EST AI | ND TAKI | E BY CO | MMUNI | TY (EXP. | ANDED) |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 0.0 | | 3.8 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 0.0 | | 3.8 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 3.8 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | | |

Table 41. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: King Cove, 2008

| HANVEST DI AGE AND S | | | | | | | | |
|----------------------|--------|--------|--------|-----------|---------|--------|--------|-----------|
| | | Sea | Lion | | | Harboi | r Seal | |
| | Report | ed by | Commu | nity Est. | Reporte | ed by | Commu | nity Est. |
| | San | nple | (Expai | nded) | Samp | ole | (Expa | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 1 | 100.0% | 1.3 | 100.0% | 3 | 100.0% | 3.8 | 100.0% |
| Adult Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Total | 1 | 100.0% | 1.3 | 100.0% | 3 | 100.0% | 3.8 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | - 1 | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 1.3 | 0.0 | 1.3 | 1992 | 26.0 | 6.7 | 32.7 |
| 1993 | 1.2 | 0.0 | 1.2 | 1993 | 12.8 | 3.5 | 16.3 |
| 1994 | 3.2 | 1.1 | 4.3 | 1994 | 20.9 | 1.1 | 22.0 |
| 1995 | 5.0 | 0.0 | 5.0 | 1995 | 49.0 | 3.0 | 52.0 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 14.0 | 5.0 | 19.0 |
| 1997 | 4.2 | 0.0 | 4.2 | 1997 | 16.9 | 2.1 | 19.1 |
| 1998 | 4.3 | 0.0 | 4.3 | 1998 | 18.2 | 0.0 | 18.2 |
| 2000 | 4.3 | 0.0 | 4.3 | 2000 | 19.3 | 2.1 | 21.4 |
| 2001 | 3.0 | 0.0 | 3.0 | 2001 | 22.0 | 4.0 | 26.0 |
| 2002 | 0.0 | 1.5 | 1.5 | 2002 | 7.5 | 3.0 | 10.5 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 11.0 | 4.4 | 15.4 |
| 2004 | 1.7 | 0.0 | 1.7 | 2004 | 32.3 | 0.0 | 32.3 |
| 2005 | 3.2 | 0.0 | 3.2 | 2005 | 21.5 | 0.0 | 21.5 |
| 2006 | 11.8 | 1.1 | 12.9 | 2006 | 14.0 | 0.0 | 14.0 |
| 2007 | 1.3 | 0.0 | 1.3 | 2007 | 3.9 | 1.3 | 5.1 |
| 2008 | 1.3 | 0.0 | 1.3 | 2008 | 3.8 | 0.0 | 3.8 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2000-2009.

Table 42. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Perryville, 2008

CENSUS

Total Native Households 34

Surveyed Households 13

Sampling Fraction 38.2%

92.3%

Sampling Fraction 38.2%
Sample Household Members 54
Estimated Household Members 141.2
2000 U.S. Census Estimated Native Populatior 105

Number Harvested Per Capita 0.02

0.45

HARVEST AND USE INFORMATION

Gave Away 7.7%

Percentage of Native Households: Estimated Community Harvest Sea Harbor and Take (Expanded): Sea Harbor <u>Lion</u> <u>Seal</u> <u>Lion</u> <u>Seal</u> Used 7.7% Total Number Harvested 100.0% 2.6 47.1 Total Number Struck and Lost 0.0 Hunted 7.7% 84.6% 15.7 Harvested 7.7% Total Number Taken 69.2% 2.6 62.8 Received 0.0% 53.8%

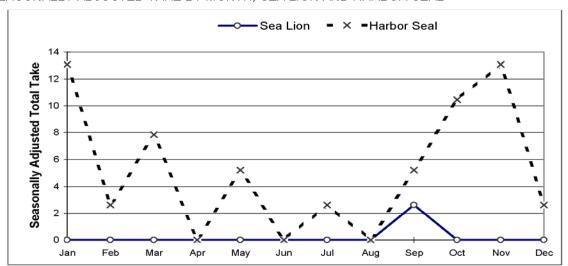
| SEA LION | HARVE | EST B | Y MON | ITH | | | | | | | | Į | Jnknown | |
|----------------|----------|----------|---------|---------|---------|---------|---------|------|----------|---------|--------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAF | RVEST AN | D TAKE E | Y SAMPL | ED HOUS | SEHOLDS | (UNEXPA | ANDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| ESTIMATED | HARVES | T AND | TAKE B | COMM | UNITY | (EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 |
| ESTIMATED | SEASON | IALLY A | DJUSTE | D HAR | /EST AI | ND TAKE | E BY CC | MMUN | ITY (EXF | PANDED) |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | | 2.6 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | | 2.6 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 2.6 | 2.6 | 2.6 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |
| HARRORS | SEALL | IADVE | STRV | MON | ТН | | | | | | | | Inknown | |

| HARBOR SEAL HARVEST BY MONTH | | | | | | | | | | | | | | |
|------------------------------|--------|---------|--------|--------|--------|--------|---------|--------|----------|--------|-------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED I | HARVES | T AND | TAKE B | YSAMP | LED HO | USEHO | LDS (UI | NEXPAN | IDED) | | | | | |
| Harvest | 3 | 1 | 3 | 0 | 2 | 0 | 1 | 0 | 1 | 3 | 4 | 0 | 0 | 18 |
| Struck & Lost | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 6 |
| Total Take | 5 | 1 | 3 | 0 | 2 | 0 | 1 | 0 | 2 | 4 | 5 | 1 | 0 | 24 |
| ESTIMATED | HARVES | ST AND | TAKE B | Y COM | JUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 7.8 | 2.6 | 7.8 | 0.0 | 5.2 | 0.0 | 2.6 | 0.0 | 2.6 | 7.8 | 10.5 | 0.0 | 0.0 | 47.1 |
| Struck & Lost | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 2.6 | 2.6 | 2.6 | 0.0 | 15.7 |
| Total Take | 13.1 | 2.6 | 7.8 | 0.0 | 5.2 | 0.0 | 2.6 | 0.0 | 5.2 | 10.5 | 13.1 | 2.6 | 0.0 | 62.8 |
| ESTIMATED | SEASON | NALLY A | DJUSTI | ED HAR | VEST A | ND TAK | E BY C | NUMMC | ITY (EXF | ANDED) | | | | |
| Harvest | 7.8 | 2.6 | 7.8 | 0.0 | 5.2 | 0.0 | 2.6 | 0.0 | 2.6 | 7.8 | 10.5 | 0.0 | | 47.1 |
| Struck & Lost | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 2.6 | 2.6 | 2.6 | | 15.7 |
| Total Take | 13.1 | 2.6 | 7.8 | 0.0 | 5.2 | 0.0 | 2.6 | 0.0 | 5.2 | 10.5 | 13.1 | 2.6 | | 62.8 |
| Total Take (%) | 20.8% | 4.2% | 12.5% | 0.0% | 8.3% | 0.0% | 4.2% | 0.0% | 8.3% | 16.7% | 20.8% | 4.2% | | 100.0% |
| Cum. Take | 13.1 | 15.7 | 23.5 | 23.5 | 28.8 | 28.8 | 31.4 | 31.4 | 36.6 | 47.1 | 60.2 | 62.8 | | |
| Cum. Take (%) | 20.8% | 25.0% | 37.5% | 37.5% | 45.8% | 45.8% | 50.0% | 50.0% | 58.3% | 75.0% | 95.8% | 100.0% | | |

Table 42. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Perryville, 2008

| | | Sea | Lion | | | Harboi | r Seal | |
|----------------------|--------|--------|--------|-----------|---------|--------|--------|-----------|
| | Report | ed by | Commu | nity Est. | Reporte | d by | Commu | nity Est. |
| | Sam | ple | (Expai | nded) | Samp | ole | (Expai | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 1 | 100.0% | 2.6 | 100.0% | 8 | 44.4% | 20.9 | 44.4% |
| Adult Female | 0 | 0.0% | 0.0 | 0.0% | 4 | 22.2% | 10.5 | 22.2% |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Male | 0 | 0.0% | 0.0 | 0.0% | 2 | 11.1% | 5.2 | 11.1% |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Se> | 0 | 0.0% | 0.0 | 0.0% | 1 | 5.6% | 2.6 | 5.6% |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 2 | 11.1% | 5.2 | 11.1% |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 1 | 5.6% | 2.6 | 5.6% |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Total | 1 | 100.0% | 2.6 | 100.0% | 18 | 100.0% | 47.1 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | ı | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|---|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | _ | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 1.1 | 0.0 | 1.1 | | 1992 | 8.9 | 2.2 | 11.1 |
| 1993 | 0.0 | 0.0 | 0.0 | | 1993 | 12.8 | 2.1 | 15.0 |
| 1994 | 1.4 | 0.0 | 1.4 | | 1994 | 21.1 | 0.0 | 21.1 |
| 1995 | 3.1 | 0.0 | 3.1 | | 1995 | 11.0 | 3.1 | 14.1 |
| 1996 | 1.3 | 1.3 | 2.6 | | 1996 | 20.5 | 0.0 | 20.5 |
| 1997 | 2.3 | 0.0 | 2.3 | | 1997 | 21.7 | 5.7 | 27.4 |
| 1998 | 1.1 | 0.0 | 1.1 | | 1998 | 21.0 | 4.4 | 25.4 |
| 2000 | 4.5 | 0.0 | 4.5 | | 2000 | 21.0 | 15.0 | 36.0 |
| 2001 | 1.1 | 0.0 | 1.1 | | 2001 | 24.0 | 6.9 | 30.9 |
| 2002 | 2.5 | 1.3 | 3.8 | | 2002 | 33.8 | 15.0 | 48.8 |
| 2003 | 1.2 | 2.4 | 3.7 | | 2003 | 51.3 | 6.1 | 57.4 |
| 2004 | 2.2 | 0.0 | 2.2 | | 2004 | 20.0 | 5.6 | 25.6 |
| 2005 | 1.0 | 0.0 | 1.0 | | 2005 | 21.0 | 6.0 | 27.0 |
| 2006 | 0.0 | 0.0 | 0.0 | | 2006 | 27.4 | 14.3 | 41.7 |
| 2007 | 0.0 | 0.0 | 0.0 | | 2007 | 18.9 | 12.1 | 31.0 |
| 2008 | 2.6 | 0.0 | 2.6 | | 2008 | 47.1 | 15.7 | 62.8 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2000-2009.

Table 43. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Sand Point, 2008

SAMPLING DESIGN: CHAIN REFERRAL

Total Referred Households
Surveyed Households
Sampling Fraction
Sample Household Members
Estimated Household Members
90.6

2000 U.S. Census Estimated Native Population 421

HARVEST AND USE INFORMATION

| Percentage of Sample I | House | holds: | Estimated Community Harvest | | |
|------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 11.8% | 64.7% | Total Number Harvested | 3.3 | 31.3 |
| Hunted | 5.9% | 41.2% | Total Number Struck and Lost | 0.0 | 1.6 |
| Harvested | 5.9% | 41.2% | Total Number Taken | 3.3 | 32.9 |
| Received | 5.9% | 23.5% | | | |
| Gave Away | 5.9% | 47.1% | Number Harvested Per Capita | 0.01 | 0.07 |

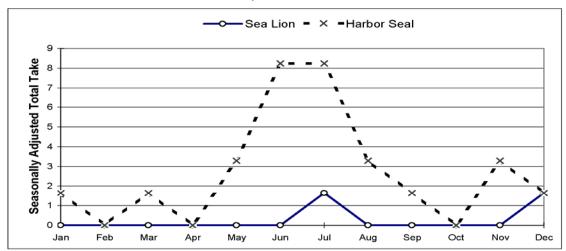
| SEA LION I | HARVE | EST B | YMON | ΙΤΗ | | | | | | | | l | Unknown | |
|----------------|----------|----------|---------|---------|---------|---------|--------|-------|----------|--------|-------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAF | RVEST AN | D TAKE E | Y SAMPL | ED HOUS | EHOLDS | (UNEXP. | ANDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| ESTIMATED H | HARVES | TAND | TAKE B | COMM | IUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 3.3 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 3.3 |
| ESTIMATED S | SEASON | IALLY A | DJUSTE | D HAR | /EST AI | ND TAK | E BY C | OMMUN | ITY (EXP | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | | 3.3 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | | 3.3 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 50.0% | 0.0% | 0.0% | 0.0% | 0.0% | 50.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 3.3 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 50.0% | 50.0% | 50.0% | 50.0% | 50.0% | 100.0% | | |
| HARBOR S | SFAL H | IARVE | ST BY | MONT | ГН | | | | | | | | Unknown | |

| ∥ HARBOR S | EAL H | IARVE | SI BY | 'MON | ΙH | | | | | | | ι | Jnknown | |
|----------------|--------|--------|--------|--------|--------|--------|---------|--------|----------|--------|-------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND | TAKE B | YSAMP | LED HO | USEHO | LDS (UI | NEXPAN | IDED) | | | | | |
| Harvest | 1 | 0 | 1 | 0 | 2 | 4 | 5 | 2 | 1 | 0 | 2 | 1 | 0 | 19 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Take | 1 | 0 | 1 | 0 | 2 | 5 | 5 | 2 | 1 | 0 | 2 | 1 | 0 | 20 |
| ESTIMATED H | HARVES | T AND | TAKE B | Y COM | NUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 1.6 | 0.0 | 1.6 | 0.0 | 3.3 | 6.6 | 8.2 | 3.3 | 1.6 | 0.0 | 3.3 | 1.6 | 0.0 | 31.3 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 |
| Total Take | 1.6 | 0.0 | 1.6 | 0.0 | 3.3 | 8.2 | 8.2 | 3.3 | 1.6 | 0.0 | 3.3 | 1.6 | 0.0 | 32.9 |
| ESTIMATED S | SEASON | ALLY A | DJUSTI | ED HAR | VEST A | ND TAK | E BY CO | OMMUN | ITY (EXP | ANDED) | | | | |
| Harvest | 1.6 | 0.0 | 1.6 | 0.0 | 3.3 | 6.6 | 8.2 | 3.3 | 1.6 | 0.0 | 3.3 | 1.6 | | 31.3 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 1.6 |
| Total Take | 1.6 | 0.0 | 1.6 | 0.0 | 3.3 | 8.2 | 8.2 | 3.3 | 1.6 | 0.0 | 3.3 | 1.6 | | 32.9 |
| Total Take (%) | 5.0% | 0.0% | 5.0% | 0.0% | 10.0% | 25.0% | 25.0% | 10.0% | 5.0% | 0.0% | 10.0% | 5.0% | | 100.0% |
| Cum. Take | 1.6 | 1.6 | 3.3 | 3.3 | 6.6 | 14.8 | 23.1 | 26.4 | 28.0 | 28.0 | 31.3 | 32.9 | | |
| Cum. Take (%) | 5.0% | 5.0% | 10.0% | 10.0% | 20.0% | 45.0% | 70.0% | 80.0% | 85.0% | 85.0% | 95.0% | 100.0% | | |

Table 43. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Sand Point, 2008

| HARVEST BT AGE AND S | | | | | | | | |
|----------------------|--------|--------|--------|-----------|---------|--------|--------|-----------|
| | | Sea | Lion | | | Harbo | r Seal | |
| | Report | ed by | Commu | nity Est. | Reporte | d by | Commu | nity Est. |
| | Sam | nple | (Expa | nded) | Sam | ole | (Expa | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | 0.0% | 0.0 | 0.0% | 7 | 36.8% | 11.5 | 36.8% |
| Adult Female | 2 | 100.0% | 3.3 | 100.0% | 1 | 5.3% | 1.6 | 5.3% |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 3 | 15.8% | 4.9 | 15.8% |
| Juvenile Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 3 | 15.8% | 4.9 | 15.8% |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 1 | 5.3% | 1.6 | 5.3% |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | 4 | 21.1% | 6.6 | 21.1% |
| Total | 2 | 100.0% | 3.3 | 100.0% | 19 | 100.0% | 31.3 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | ı | HARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 37.9 | 0.0 | 37.9 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 13.3 | 1.2 | 14.4 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 7.8 | 4.3 | 12.1 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 9.2 | 0.0 | 9.2 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 20.2 | 0.0 | 20.2 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 9.1 | 0.0 | 9.1 |
| 1998 | 2.0 | 0.0 | 2.0 | 1998 | 12.0 | 0.0 | 12.0 |
| 2000 | 5.0 | 0.0 | 5.0 | 2000 | 15.0 | 0.0 | 15.0 |
| 2001 | 4.7 | 0.0 | 4.7 | 2001 | 10.9 | 1.6 | 12.4 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 15.0 | 0.0 | 15.0 |
| 2003 | 1.3 | 0.0 | 1.3 | 2003 | 14.3 | 0.0 | 14.3 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 15.0 | 1.3 | 16.3 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 15.0 | 1.3 | 16.3 |
| 2006 | 5.6 | 0.0 | 5.6 | 2006 | 3.8 | 1.9 | 5.6 |
| 2007 | 8.4 | 0.0 | 8.4 | 2007 | 48.8 | 5.1 | 53.9 |
| 2008 | 3.3 | 0.0 | 3.3 | 2008 | 31.3 | 1.6 | 32.9 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2000-2009.

Table 44. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Adak, 2008

CHAIN REFERRAL Total Referred Households 2 Surveyed Households 2

Sampling Fraction
Sample Household Members
Estimated Household Members

0.0
2000 U.S. Census Estimated Native Population

1100.0%
1118

HARVEST AND USE INFORMATION

Gave Away 100.0%

Percentage of Native Households: Estimated Community Harvest and Take (Expanded):

100.0%

Sea Harbor <u>Lion</u> <u>Seal</u> Lion <u>Seal</u> Used 100.0% 100.0% **Total Number Harvested** 4.0 2.0 Hunted 100.0% Total Number Struck and Lost 0.0 Harvested 100.0% Total Number Taken 100.0% 4.0 2.0 Received 0.0% 0.0%

Number Harvested Per Capita

0.03

0.02

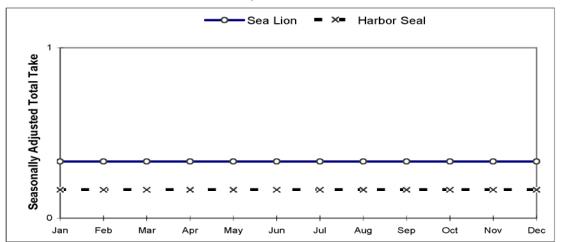
SEA LION HARVEST BY MONTH Unknown Мау Sep Dec Feb Jul Oct Nov Total Jan Jun Aug Month REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED) 0 0 0 0 0 0 0 0 0 0 0 0 Harvest 0 Struck & Lost 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Total Take 0 0 0 0 0 0 0 0 0 4 4 ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED) Harvest 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.0 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Struck & Lost 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.0 4.0 ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED) 0.3 4.0 Harvest 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 4.0 Total Take (%) 8.3% 8.3% 8.3% 8.3% 8.3% 8.3% 8.3% 8.3% 8.3% 8.3% 8.3% 8.3% 100.0% Cum. Take 0.3 0.7 1.0 1.3 1.7 2.0 2.3 2.7 3.0 3.3 3.7 4.0 50.0% Cum. Take (%) 8.3% 16.7% 25.0% 33.3% 41.7% 58.3% 66.7% 75.0% 83.3% 91.7% 100.0%

| HARBOR S | HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|--------------------------------------|---------|--------|--------|--------|--------|---------|--------|---------|--------|------------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND | TAKE B | Y SAMP | LED HO | USEHO | LDS (UI | NEXPAN | DED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| ESTIMATED H | HARVES | ST AND | TAKE B | Y COM | JUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 |
| ESTIMATEDS | SEASO | NALLY A | DJUST | ED HAR | VEST A | ND TAK | E BY CO | оммии | TY (EXF | PANDED |)) | | | |
| Harvest | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | | 2.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | | 2.0 |
| Total Take (%) | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | 8.3% | | 100.0% |
| Cum. Take | 0.2 | 0.3 | 0.5 | 0.7 | 0.8 | 1.0 | 1.2 | 1.3 | 1.5 | 1.7 | 1.8 | 2.0 | | |
| Cum. Take (%) | 8.3% | 16.7% | 25.0% | 33.3% | 41.7% | 50.0% | 58.3% | 66.7% | 75.0% | 83.3% | 91.7% | 100.0% | | |

Table 44. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Adak, 2008

| | | S | Sea Lion | | | Harbor Seal | | | | |
|----------------------|--------|--------|----------|------------|--------|-------------|--------|-----------|--|--|
| | Report | ed by | Commur | ity Est. | Report | ed by | Commu | nity Est. | | |
| | Sample | | (Expar | (Expanded) | | Sample | | nded) | | |
| | Number | % | Number | % | Number | % | Number | % | | |
| Adult Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Adult Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Unknown Sex and Age | 4 | 100.0% | 4.0 | 100.0% | 2 | 100.0% | 2.0 | 100.0% | | |
| Total | 4 | 100.0% | 4.0 | 100.0% | 2 | 100.0% | 2.0 | 100.0% | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | HARBO | R SEA | L |
|-------------|----------------|---------|-------------|-------------|----------------|---------|----|
| | | Struck/ | Total | | | Struck/ | To |
| <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | Lost | Ta |
| 1992 | | | | 1992 | | | |
| 1993 | | | | 1993 | | | |
| 1994 | | | | 1994 | | | |
| 1995 | | | | 1995 | · | | |
| 1996 | | | | 1996 | | | |
| 1997 | | | | 1997 | | | |
| 1998 | | | | 1998 | | | |
| 2000 | | | | 2000 |) | | |
| 2001 | | | | 2001 | | | |
| 2002 | | | | 2002 | ! | | |
| 2003 | 1.0 | 0.0 | 1.0 | 2003 | 4.0 | 1.0 | 5. |
| 2004 | 2.0 | 1.0 | 3.0 | 2004 | 0.0 | 0.0 | 0. |
| 2005 | 4.0 | 0.0 | 4.0 | 2005 | 12.0 | 0.0 | 12 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 0.0 | 0.0 | 0. |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 4.0 | 0.0 | 4. |
| 2008 | 4.0 | 0.0 | 4.0 | 2008 | 2.0 | 0.0 | 2. |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998, AMMC Household Surveys, 2003-2009.

Table 45. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Akutan, 2008

CENSUS Total Native Households 35
Surveyed Households 33

Sampling Fraction 94.3%
Sample Household Members 72
Estimated Household Members 76.4

2000 U.S. Census Estimated Native Population 117

HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest

Sea Harbor and Take (Expanded): Sea Harbor <u>Seal</u> <u>Lion</u> <u>Lion</u> <u>Seal</u> 54.5% 54.5% Total Number Harvested 4.2 17.0 Hunted 12.1% Total Number Struck and Lost 24.2% 0.0 0.0 Harvested 9.1% Total Number Taken 17.0 24.2% Received 45.5% 39.4% Number Harvested Per Capita Gave Away 0.04 0.15

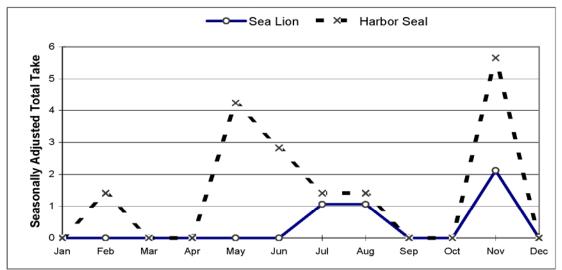
SEA LION HARVEST BY MONTH Unknown Nov Dec Jan Feb May Jun Aug Sep Oct Month Total REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED) Harvest 0 0 0 0 2 0 0 4 Struck & Lost 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Total Take 0 0 0 0 0 0 0 0 2 0 0 4 ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED) Harvest 0.0 0.0 0.0 0.0 1.1 1.1 0.0 0.0 2.1 0.0 0.0 4.2 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2 1.1 1.1 2.1 0.0 ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED) Harvest 0.0 0.0 0.0 0.0 0.0 0.0 11 11 0.0 0.0 21 0.0 42 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 2.1 0.0 4.2 0.0 1.1 1.1 0.0 0.0 Total Take (%) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 25.0% 25.0% 0.0% 0.0% 50.0% 0.0% 100.0% Cum. Take 0.0 0.0 0.0 0.0 0.0 0.0 1.1 2.1 2.1 2.1 4.2 4.2 100.0% Cum. Take (%) 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 25.0% 50.0% 50.0% 50.0% 100.0%

| HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|--|--------|--------|---------|-------|--------|--------|---------|-------|---------|-------|--------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED) | | | | | | | | | | | | | | |
| Harvest | 0 | 1 | 0 | 0 | 3 | 2 | 1 | 1 | 0 | 0 | 4 | 0 | 4 | 16 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 1 | 0 | 0 | 3 | 2 | 1 | 1 | 0 | 0 | 4 | 0 | 4 | 16 |
| ESTIMATED H | HARVES | T AND | TAKE BY | COM | JUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 0.0 | 1.1 | 0.0 | 0.0 | 3.2 | 2.1 | 1.1 | 1.1 | 0.0 | 0.0 | 4.2 | 0.0 | 4.2 | 17.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 1.1 | 0.0 | 0.0 | 3.2 | 2.1 | 1.1 | 1.1 | 0.0 | 0.0 | 4.2 | 0.0 | 4.2 | 17.0 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HAR | VEST A | ND TAK | E BY CC | имими | TY (EXF | PANDE | O) | | | |
| Harvest | 0.0 | 1.4 | 0.0 | 0.0 | 4.2 | 2.8 | 1.4 | 1.4 | 0.0 | 0.0 | 5.7 | 0.0 | | 17.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 1.4 | 0.0 | 0.0 | 4.2 | 2.8 | 1.4 | 1.4 | 0.0 | 0.0 | 5.7 | 0.0 | | 17.0 |
| Total Take (%) | 0.0% | 8.3% | 0.0% | 0.0% | 25.0% | 16.7% | 8.3% | 8.3% | 0.0% | 0.0% | 33.3% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 1.4 | 1.4 | 1.4 | 5.7 | 8.5 | 9.9 | 11.3 | 11.3 | 11.3 | 17.0 | 17.0 | | |
| Cum. Take (%) | 0.0% | 8.3% | 8.3% | 8.3% | 33.3% | 50.0% | 58.3% | 66.7% | 66.7% | 66.7% | 100.0% | 100.0% | | |

Table 45. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Akutan, 2008

| | | S | Sea Lion | | | Harbor Seal | | | | |
|----------------------|--------|--------|----------|------------|--------|-------------|----------------|------------|--|--|
| | Report | ed by | Commu | nity Est. | Report | ed by | Community Est. | | | |
| | Sam | ple | (Expa | (Expanded) | | Sample | | (Expanded) | | |
| | Number | % | Number | % | Number | % | Number | % | | |
| Adult Male | 3 | 75.0% | 3.2 | 75.0% | 6 | 37.5% | 6.4 | 37.5% | | |
| Adult Female | 1 | 25.0% | 1.1 | 25.0% | 6 | 37.5% | 6.4 | 37.5% | | |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% | | |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | 4 | 25.0% | 4.2 | 25.0% | | |
| Total | 4 | 100.0% | 4.2 | 100.0% | 16 | 100.0% | 17.0 | 100.0% | | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| SEA LION | | | | _ | HARBOR SEAL | | | | | |
|-------------|----------------|-------------|-------------|---|-------------|----------------|---------|-------------|--|--|
| | | Struck/ | Total | - | | | Struck/ | Total | | |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> | | |
| 1992 | 25.7 | 4.3 | 30.0 | | 1992 | 12.9 | 4.3 | 17.1 | | |
| 1993 | 14.5 | 8.9 | 23.4 | | 1993 | 15.6 | 4.5 | 20.1 | | |
| 1994 | 12.7 | 3.5 | 16.2 | | 1994 | 13.8 | 3.5 | 17.3 | | |
| 1995 | 6.0 | 0.0 | 6.0 | | 1995 | 7.0 | 0.0 | 7.0 | | |
| 1996 | 11.0 | 5.0 | 16.0 | | 1996 | 8.0 | 7.0 | 15.0 | | |
| 1997 | 6.4 | 0.0 | 6.4 | | 1997 | 14.0 | 3.8 | 17.8 | | |
| 1998 | 6.4 | 0.0 | 6.4 | | 1998 | 14.0 | 3.8 | 17.8 | | |
| 2000 | 4.1 | 1.4 | 5.4 | | 2000 | 25.7 | 5.4 | 31.1 | | |
| 2001 | 15.0 | 2.7 | 17.7 | | 2001 | 13.6 | 2.7 | 16.4 | | |
| 2002 | 2.9 | 0.0 | 2.9 | | 2002 | 10.2 | 0.0 | 10.2 | | |
| 2003 | 8.7 | 0.0 | 8.7 | | 2003 | 10.8 | 4.3 | 15.2 | | |
| 2004 | 4.8 | 0.0 | 4.8 | | 2004 | 9.5 | 1.6 | 11.1 | | |
| 2005 | 4.8 | 0.0 | 4.8 | | 2005 | 8.5 | 2.4 | 10.9 | | |
| 2006 | 2.4 | 0.0 | 2.4 | | 2006 | 2.4 | 0.0 | 2.4 | | |
| 2007 | 5.1 | 1.3 | 6.4 | | 2007 | 11.5 | 1.3 | 12.7 | | |
| 2008 | 4.2 | 0.0 | 4.2 | | 2008 | 17.0 | 0.0 | 17.0 | | |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2000-2009.

Table 46. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Atka, 2008

CENSUS Total Native Households 25 Surveyed Households 10

Sampling Fraction
Sample Household Members
Estimated Household Members
73.6
2000 U.S. Census Estimated Native Population
84

HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest

and Take (Expanded): Harbor Sea Harbor Sea Lion Seal <u>Lion</u> <u>Seal</u> Total Number Harvested Used 90.0% 70.0% 35.0 17.5 Hunted 40.0% Total Number Struck and Lost 0.0 5.0 Harvested 40.0% Total Number Taken 22.5 30.0% Received 70.0% 50.0% Number Harvested Per Capita 0.42 Gave Away 60.0% 30.0% 0.21

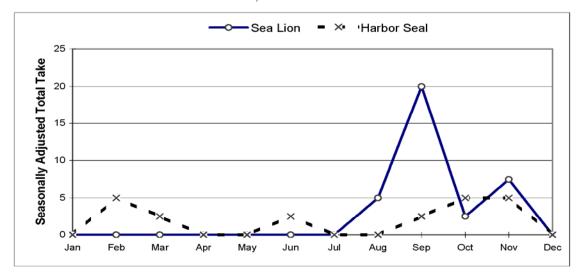
| SEA LION I | HARVE | STBY | ′ MON | TH | | | | | | | | l | Jnknown | |
|----------------|---------|----------|----------|----------|----------|---------|--------|--------|---------|-------|--------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AN | D TAKE B | Y SAMPLE | ED HOUSE | EHOLDS (| UNEXPAN | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 1 | 3 | 0 | 0 | 14 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 8 | 1 | 3 | 0 | 0 | 14 |
| ESTIMATED H | IARVES | T AND T | AKE BY | COMM | UNITY (I | EXPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 20.0 | 2.5 | 7.5 | 0.0 | 0.0 | 35.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 20.0 | 2.5 | 7.5 | 0.0 | 0.0 | 35.0 |
| ESTIMATED S | EASON | ALLY A | DJUSTE | D HARV | EST AN | D TAKE | BY COI | имиліт | Y (EXPA | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 20.0 | 2.5 | 7.5 | 0.0 | | 35.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 20.0 | 2.5 | 7.5 | 0.0 | | 35.0 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 14.3% | 57.1% | 7.1% | 21.4% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 25.0 | 27.5 | 35.0 | 35.0 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 14.3% | 71.4% | 78.6% | 100.0% | 100.0% | | |
| HARBOR S | | | | MONT | | | | | | | | | Jnknown | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
|----------------|--------|---------|---------|--------|---------|---------|---------|--------|---------|--------|--------|--------|-------|--------|
| REPORTED H | IARVES | T AND T | TAKE BY | 'SAMPL | .ED HO | JSEHOL | DS (UNI | EXPAND | DED) | • | | • | • | • |
| Harvest | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 7 |
| Struck & Lost | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| Total Take | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 9 |
| ESTIMATED H | HARVES | T AND | TAKE BY | COMM | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 5.0 | 5.0 | 0.0 | 0.0 | 17.5 |
| Struck & Lost | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| Total Take | 0.0 | 5.0 | 2.5 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 2.5 | 5.0 | 5.0 | 0.0 | 0.0 | 22.5 |
| ESTIMATED S | SEASON | ALLY A | DJUSTE | D HARV | EST AN | ID TAKE | BY CO | мминіт | Y (EXPA | ANDED) | | | | |
| Harvest | 0.0 | 5.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 5.0 | 5.0 | 0.0 | | 17.5 |
| Struck & Lost | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | | 5.0 |
| Total Take | 0.0 | 5.0 | 2.5 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 2.5 | 5.0 | 5.0 | 0.0 | | 22.5 |
| Total Take (%) | 0.0% | 22.2% | 11.1% | 0.0% | 0.0% | 11.1% | 0.0% | 0.0% | 11.1% | 22.2% | 22.2% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 5.0 | 7.5 | 7.5 | 7.5 | 10.0 | 10.0 | 10.0 | 12.5 | 17.5 | 22.5 | 22.5 | | |
| Cum. Take (%) | 0.0% | 22.2% | 33.3% | 33.3% | 33.3% | 44.4% | 44.4% | 44.4% | 55.6% | 77.8% | 100.0% | 100.0% | | |

Table 46. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Atka, 2008

| | | Sea | ı Lion | | | Harbo | · Seal | |
|----------------------|--------|--------|--------|----------|---------|--------|--------|-----------|
| | Report | ed by | Commur | ity Est. | Reporte | d by | Commu | nity Est. |
| | Sam | ple | (Expar | ided) | Samp | ole | (Expa | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 4 | 28.6% | 10.0 | 28.6% | 1 | 14.3% | 2.5 | 14.3% |
| Adult Female | 3 | 21.4% | 7.5 | 21.4% | 2 | 28.6% | 5.0 | 28.6% |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Male | 4 | 28.6% | 10.0 | 28.6% | 2 | 28.6% | 5.0 | 28.6% |
| Juvenile Female | 3 | 21.4% | 7.5 | 21.4% | 2 | 28.6% | 5.0 | 28.6% |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Total | 14 | 100.0% | 35.0 | 100.0% | 7 | 100.0% | 17.5 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | - | HARBO | R SEA | _ |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 28.6 | 9.9 | 38.5 | 1992 | 28.6 | 9.9 | 38.5 |
| 1993 | 25.1 | 0.0 | 25.1 | 1993 | 32.7 | 0.0 | 32.7 |
| 1994 | 45.5 | 8.7 | 54.2 | 1994 | 73.7 | 8.7 | 82.3 |
| 1995 | 40.0 | 0.0 | 40.0 | 1995 | 42.5 | 0.0 | 42.5 |
| 1996 | 17.3 | 0.0 | 17.3 | 1996 | 22.7 | 2.2 | 24.8 |
| 1997 | 12.2 | 0.0 | 12.2 | 1997 | 26.0 | 1.5 | 27.5 |
| 1998 | 16.8 | 0.0 | 16.8 | 1998 | 16.8 | 0.0 | 16.8 |
| 2000 | 16.8 | 0.0 | 16.8 | 2000 | 16.8 | 0.0 | 16.8 |
| 2001 | 33.3 | 11.7 | 45.0 | 2002 | 63.3 | 6.7 | 70.0 |
| 2002 | 73.5 | 12.0 | 85.5 | 2001 | 36.0 | 0.0 | 36.0 |
| 2003 | 68.8 | 12.8 | 81.6 | 2003 | 57.6 | 1.6 | 59.2 |
| 2004 | 50.7 | 12.7 | 63.3 | 2004 | 73.9 | 16.9 | 90.8 |
| 2005 | 54.9 | 6.1 | 61.0 | 2005 | 47.2 | 9.1 | 56.4 |
| 2006 | 52.0 | 14.0 | 66.0 | 2006 | 26.0 | 4.0 | 30.0 |
| 2007 | 46.0 | 8.0 | 54.0 | 2007 | 38.0 | 2.0 | 40.0 |
| 2008 | 35.0 | 0.0 | 35.0 | 2008 | 17.5 | 5.0 | 22.5 |

Table 47. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Nikolski, 2008

CENSUS

Total Native Households 7
Surveyed Households 7
Sampling Fraction 100.0%
Sample Household Members 12
Estimated Household Members 12.0
2000 U.S. Census Estimated Native Population 27

HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest

| | Sea <u>Lion</u> | Harbor <u>Seal</u> | and Take (Expanded): | Sea <u>Lion</u> | Harbor <u>Seal</u> |
|-----------|--------------------|-----------------------|------------------------------|--------------------|-----------------------|
| Used | 0.0% | 42.9% | Total Number Harvested | 0.0 | 7.0 |
| Hunted | 0.0% | 42.9% | Total Number Struck and Lost | 0.0 | 1.0 |
| Harvested | 0.0% | 42.9% | Total Number Taken | 0.0 | 8.0 |
| Received | 0.0% | 0.0% | | | |
| Gave Away | 0.0% | 42.9% | Number Harvested Per Capita | 0.00 | 0.26 |

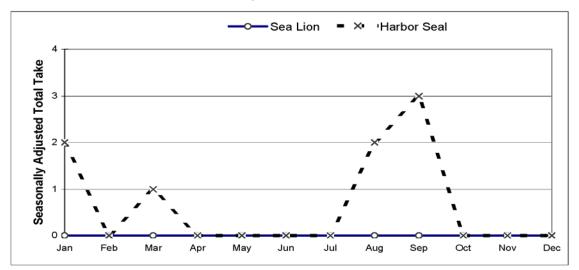
| SEA LION F | IARVE | ST BY | MON7 | Н | | | | | | | | Į | Jnknown | |
|----------------|----------|---------|----------|---------|----------|---------|--------|--------|--------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | /EST AND | TAKE BY | / SAMPLE | D HOUSE | HOLDS (L | JNEXPAN | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | ANDT | AKE BY | сомми | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTE | HARV | EST AND | TAKE | ВҮ СОМ | MUNITY | (EXPAN | IDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR S | SEAL F | IARVE | ST BY | MON7 | ΓН | | | | | | | Į | Jnknown | |
|----------------|--------|---------|---------|--------|---------|---------|---------|--------|----------|--------|--------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | HARVES | T AND T | TAKE BY | 'SAMPL | .ED HOL | JSEHOL | DS (UNI | EXPAN | DED) | | | | | |
| Harvest | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 7 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Total Take | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 8 |
| ESTIMATED | HARVES | T AND | TAKE B | COMM | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 2.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 |
| Total Take | 2.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.0 |
| ESTIMATED : | SEASON | ALLY A | DJUSTE | D HARV | EST AN | ID TAKE | BY CO | ММИМІТ | ΓΥ (EXPA | ANDED) | | | | |
| Harvest | 2.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | | 7.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | | 1.0 |
| Total Take | 2.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 3.0 | 0.0 | 0.0 | 0.0 | | 8.0 |
| Total Take (%) | 25.0% | 0.0% | 12.5% | 0.0% | 0.0% | 0.0% | 0.0% | 25.0% | 37.5% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 2.0 | 2.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 5.0 | 8.0 | 8.0 | 8.0 | 8.0 | | |
| Cum. Take (%) | 25.0% | 25.0% | 37.5% | 37.5% | 37.5% | 37.5% | 37.5% | 62.5% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 47. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Nikolski, 2008

| | | Se | a Lion | | | Harbor | Seal | |
|----------------------|---------|------|---------|---------|---------|--------|--------|-----------|
| | Reporte | d by | Communi | ty Est. | Reporte | d by | Commu | nity Est. |
| | Samp | ole | (Expand | ded) | Samp | ole | (Expa | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 4 | 57.1% | 4.0 | 57.1% |
| Adult Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Adult Unknown Sex | 0 | | 0.0 | | 3 | 42.9% | 3.0 | 42.9% |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 7 | 100.0% | 7.0 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | HARBO | R SEA | _ |
|-------------|----------------|-------------|-------------|-------------|----------------|---------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> |
| 1992 | 8.2 | 0.0 | 8.2 | 1992 | 5.8 | 3.5 | 9.3 |
| 1993 | 6.0 | 0.0 | 6.0 | 1993 | 4.0 | 1.0 | 5.0 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 6.0 | 0.0 | 6.0 |
| 1995 | | | | 1995 | | | |
| 1996 | 3.0 | 0.0 | 3.0 | 1996 | 4.0 | 1.0 | 5.0 |
| 1997 | 3.0 | 0.0 | 3.0 | 1997 | 4.0 | 1.0 | 5.0 |
| 1998 | 1.1 | 0.0 | 1.1 | 1998 | 2.2 | 0.0 | 2.2 |
| 2000 | 1.1 | 0.0 | 1.1 | 2000 | 2.2 | 0.0 | 2.2 |
| 2001 | 6.7 | 0.0 | 6.7 | 2001 | 5.3 | 0.0 | 5.3 |
| 2002 | 1.0 | 0.0 | 1.0 | 2002 | 3.0 | 1.0 | 4.0 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 11.0 | 3.0 | 14.0 |
| 2004 | 2.0 | 0.0 | 2.0 | 2004 | 6.0 | 1.0 | 7.0 |
| 2005 | 2.0 | 0.0 | 2.0 | 2005 | 6.0 | 1.0 | 7.0 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 17.0 | 1.0 | 18.0 |
| 2007 | 1.2 | 0.0 | 1.2 | 2007 | 6.0 | 0.0 | 6.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 7.0 | 1.0 | 8.0 |

Table 48. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Unalaska, 2008

SAMPLING DESIGN: CHAIN REFERRAL

RAL Total Referred Households 18
Surveyed Households 7
Sampling Fraction 38.9%
Sample Household Members 20
Estimated Household Members 51.9
2000 U.S. Census Estimated Native Population 397

HARVEST AND USE INFORMATION

| Percentage of Native Ho | ouseh | olds: | Estimated Community Harvest | | |
|-------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 28.6% | 14.3% | Total Number Harvested | 2.6 | 0.0 |
| Hunted | 28.6% | 0.0% | Total Number Struck and Lost | 2.6 | 0.0 |
| Harvested | 14.3% | 0.0% | Total Number Taken | 5.1 | 0.0 |
| Received | 14.3% | 14.3% | | | |
| Gave Away | 14.3% | 0.0% | Number Harvested Per Capita | 0.01 | 0.00 |

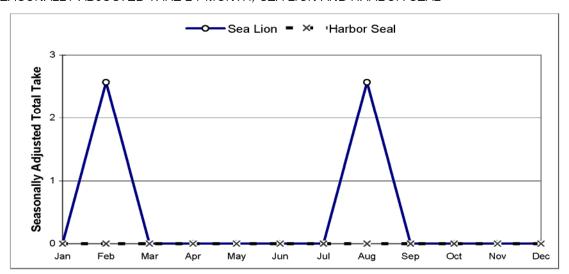
| | | | | | | | | | | | | Unknown | | |
|----------------|----------|-----------|----------|---------|---------|---------|-------|--------|----------|--------|--------|---------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | RVEST AN | ID TAKE E | BY SAMPL | ED HOUS | EHOLDS | (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Struck & Lost | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Take | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| ESTIMATED H | HARVES | T AND | TAKE BY | COMM | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 |
| Struck & Lost | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 |
| Total Take | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.1 |
| ESTIMATED S | SEASON | IALLY A | DJUSTE | D HARV | EST AN | ID TAKE | BY CO | ммилі | ΓΥ (EXP. | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | | 2.6 |
| Struck & Lost | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 2.6 |
| Total Take | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | | 5.1 |
| Total Take (%) | 0.0% | 50.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 50.0% | 0.0% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | | |
| Cum. Take (%) | 0.0% | 50.0% | 50.0% | 50.0% | 50.0% | 50.0% | 50.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

| HARBOR S. | EAL HA | ARVES | ST BY I | MONTI | Н | | | | | | | Į | Jnknown | |
|----------------|--------|---------|---------|--------|----------|--------|--------|--------|--------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | ARVEST | AND TA | KE BY | SAMPLE | D HOUS | SEHOLD | S (UNE | XPANDE | ED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | AND T | AKE BY | COMMU | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTED | HARVE | EST AND | TAKE I | BY COM | MUNITY | (EXPAI | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

Table 48. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Unalaska, 2008

| | | S | ea Lion | | | Harbo | r Seal | |
|----------------------|--------|--------|---------|-----------|---------|-------|--------|----------|
| | Report | ed by | Commu | nity Est. | Reporte | d by | Commun | ity Est. |
| | San | nple | (Expa | nded) | Samp | ole | (Expan | ded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Adult Female | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Juvenile Male | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Unknown Sex and Age | 1 | 100.0% | 2.6 | 100.0% | 0 | | 0.0 | |
| Total | 1 | 100.0% | 2.6 | 100.0% | 0 | | 0.0 | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | IARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 41.8 | 16.7 | 58.5 | 1992 | 47.0 | 3.7 | 50.8 |
| 1993 | 53.4 | 15.9 | 69.3 | 1993 | 32.7 | 9.9 | 42.6 |
| 1994 | 43.6 | 8.4 | 51.9 | 1994 | 31.4 | 10.5 | 41.8 |
| 1995 | 39.0 | 11.1 | 50.1 | 1995 | 37.4 | 9.7 | 47.1 |
| 1996 | 15.2 | 6.3 | 21.6 | 1996 | 20.3 | 5.1 | 25.4 |
| 1997 | 29.1 | 1.3 | 30.3 | 1997 | 26.5 | 0.0 | 26.5 |
| 1998 | 7.3 | 5.5 | 12.7 | 1998 | 12.7 | 0.0 | 12.7 |
| 2000 | 49.2 | 3.4 | 52.6 | 2000 | 34.3 | 5.1 | 39.4 |
| 2001 | 23.1 | 5.3 | 28.4 | 2001 | 37.8 | 3.2 | 41.0 |
| 2002 | 10.0 | 5.7 | 15.7 | 2002 | 14.3 | 1.4 | 15.7 |
| 2003 | 10.0 | 5.7 | 15.7 | 2003 | 14.3 | 1.4 | 15.7 |
| 2004 | 11.4 | 11.4 | 22.9 | 2004 | 28.6 | 8.6 | 37.1 |
| 2005 | 12.0 | 4.5 | 16.5 | 2005 | 30.0 | 4.5 | 34.5 |
| 2006 | 9.0 | 5.4 | 14.4 | 2006 | 9.0 | 3.6 | 12.6 |
| 2007 | 9.0 | 5.4 | 14.4 | 2007 | 9.0 | 3.6 | 12.6 |
| 2008 | 2.6 | 2.6 | 5.1 | 2008 | 0.0 | 0.0 | 0.0 |

Table 49. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: St. George, 2008

CHAIN REFERRAL Total Referred Households 7

Surveyed Households 3
Sampling Fraction 42.9%
Sample Household Members 9

Estimated Household Members 21.0 2000 U.S. Census Estimated Native Population 140

HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest Sea Harbor and Take (Expanded): Sea Harbor <u>Lion</u> Seal <u>Lion</u> <u>Seal</u> Total Number Harvested Used 100.0% 9.3 0.0% 0.0 Total Number Struck and Lost 4.7 Hunted 100.0% 0.0 Harvested 100.0% Total Number Taken 14.0 0.0% 0.0

Received 66.7% 0.0%

Gave Away 100.0% 0.0%

Number Harvested Per Capita 0.07 0.00

| SEA LION I | HARVE | EST B | Y MON | ITH | | | | | | | | Į | Jnknown | |
|----------------|----------|----------|----------|--------|---------|--------|---------|-------|---------|--------|----------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | RVEST AN | D TAKE E | BY SAMPI | ED HOU | SEHOLDS | (UNEXP | ANDED) | | | | | | | |
| Harvest | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| Struck & Lost | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| Total Take | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 6 |
| ESTIMATED H | HARVES | T AND | TAKE B | Y COM | JUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 9.3 |
| Struck & Lost | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 | 4.7 |
| Total Take | 0.0 | 0.0 | 9.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 2.3 | 0.0 | 0.0 | 0.0 | 14.0 |
| ESTIMATED S | SEASON | ALLY A | DJUSTI | ED HAR | VEST A | ND TAK | E BY CO | оммии | ITY (EX | PANDE |) | | | |
| Harvest | 0.0 | 0.0 | 7.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 | | 9.3 |
| Struck & Lost | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | | 4.7 |
| Total Take | 0.0 | 0.0 | 9.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 2.3 | 0.0 | 0.0 | | 14.0 |
| Total Take (%) | 0.0% | 0.0% | 66.7% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 16.7% | 16.7% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 11.7 | 14.0 | 14.0 | 14.0 | | |
| Cum. Take (%) | 0.0% | 0.0% | 66.7% | 66.7% | 66.7% | 66.7% | 66.7% | 66.7% | 83.3% | 100.0% | 100.0% | 100.0% | | |

| HARBOR S | EAL H. | ARVE | ST BY. | MONT | Н | | | | | | | Į | Jnknown | |
|----------------|--------|---------|---------|--------|---------|--------|--------|--------|--------|--------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | ARVEST | AND T | AKE BY | SAMPL | ED HOL | JSEHOL | DS (UN | EXPAND | DED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES | T AND T | AKE BY | COMM | UNITY (| EXPAND | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | DJUSTEI | D HARV | EST AN | D TAKE | BY CO | ММИМІТ | Y (EXP | ANDED) | 1 | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

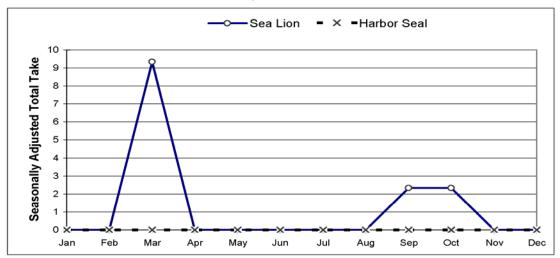
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys,

with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, 2003. (Numbers based on 2003 Survey Estimates)

Table 49. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: St. George, 2008

| | | S | ea Lion | | | Harb | or Seal | |
|----------------------|--------|--------|---------|-----------|---------|------|---------|----------|
| | Report | ed by | Commu | nity Est. | Reporte | d by | Communi | ity Est. |
| | Sam | ıple | (Expai | nded) | Samp | ole | (Expan | ded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 1 | 25.0% | 2.3 | 25.0% | 0 | | 0.0 | |
| Adult Female | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Juvenile Male | 3 | 75.0% | 7.0 | 75.0% | 0 | | 0.0 | |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | 0 | | 0.0 | |
| Total | 4 | 100.0% | 9.3 | 100.0% | 0 | | 0.0 | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | IARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 14.9 | 55.0 | 69.9 | 1992 | 0.0 | 0.0 | 0.0 |
| 1993 | 3.7 | 14.8 | 18.6 | 1993 | 0.0 | 0.0 | 0.0 |
| 1994 | 2.8 | 17.1 | 19.9 | 1994 | 0.0 | 0.0 | 0.0 |
| 1995 | 4.0 | 4.0 | 8.0 | 1995 | 0.0 | 0.0 | 0.0 |
| 1996 | 4.0 | 4.0 | 8.0 | 1996 | 0.0 | 0.0 | 0.0 |
| 1997 | 19.6 | 8.1 | 27.7 | 1997 | 0.0 | 0.0 | 0.0 |
| 1998 | 11.8 | 8.5 | 20.3 | 1998 | 0.0 | 0.0 | 0.0 |
| 2000 | 11.8 | 8.5 | 20.3 | 2000 | 0.0 | 0.0 | 0.0 |
| 2001 | 7.0 | 7.0 | 14.0 | 2001 | 0.0 | 1.0 | 1.0 |
| 2002 | 6.0 | 1.0 | 7.0 | 2002 | 0.0 | 0.0 | 0.0 |
| 2003 | 9.3 | 4.7 | 14.0 | 2003 | 0.0 | 0.0 | 0.0 |
| 2004 | 9.3 | 4.7 | 14.0 | 2004 | 0.0 | 0.0 | 0.0 |
| 2005 | 9.3 | 4.7 | 14.0 | 2005 | 0.0 | 0.0 | 0.0 |
| 2006 | 9.3 | 4.7 | 14.0 | 2006 | 0.0 | 0.0 | 0.0 |
| 2007 | 9.3 | 4.7 | 14.0 | 2007 | 0.0 | 0.0 | 0.0 |
| 2008 | 9.3 | 4.7 | 14.0 | 2008 | 0.0 | 0.0 | 0.0 |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; St George Traditional IRA Council and St. George Tanaq Corporation 2000-2009 (Numbers based on 2003 harvest estimates).

Table 50. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: St. Paul, 2008

CENSUS Total Native Households N/A
Surveyed Households N/A
Sampling Fraction N/A
Sample Household Members N/A
Estimated Household Members N/A

N/A

2000 U.S. Census Estimated Native Population 460

HARVEST AND USE INFORMATION

Gave Away N/A

| Percentage of Native Ho | usend | olas: | Estimated Community Harvest | | |
|-------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | N/A | N/A | Total Number Harvested | 20.0 | N/A |
| Hunted | N/A | N/A | Total Number Struck and Lost | 2.0 | N/A |
| Harvested | N/A | N/A | Total Number Taken | 22.0 | N/A |
| Received | N/A | N/A | | | |

Number Harvested Per Capita 0.04

N/A

| SEA LION I | HARVE | STBY | 'MON | TH | | | | | | | | Ų | Jnknown | |
|----------------|----------|---------|--------|---------|-----------|---------|--------|---------|--------|-------|-------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | TAKE BY | SAMPLE | D HOUSE | EHOLDS (I | JNEXPAN | IDED) | | | | | | | |
| Harvest | 2 | 0 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 5 | 2 | 2 | 0 | 20 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Total Take | 2 | 0 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 5 | 4 | 2 | 0 | 22 |
| ESTIMATED F | IARVES | F AND T | AKE BY | СОММ | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 2.0 | 0.0 | 0.0 | 5.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 2.0 | 2.0 | 0.0 | 20.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 | 2.0 |
| Total Take | 2.0 | 0.0 | 0.0 | 5.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 4.0 | 2.0 | 0.0 | 22.0 |
| ESTIMATED S | EASON | ALLY AD | JUSTE | D HARV | EST ANI |) TAKE | BY COM | IMUNITY | (EXPAI | NDED) | | | | |
| Harvest | 2.0 | 0.0 | 0.0 | 5.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 2.0 | 2.0 | | 20.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | | 2.0 |
| Total Take | 2.0 | 0.0 | 0.0 | 5.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 | 4.0 | 2.0 | | 22.0 |
| Total Take (%) | 9.1% | 0.0% | 0.0% | 22.7% | 18.2% | 0.0% | 0.0% | 0.0% | 0.0% | 22.7% | 18.2% | 9.1% | | 100.0% |
| Cum. Take | 2.0 | 2.0 | 2.0 | 7.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 16.0 | 20.0 | 22.0 | | |
| Cum. Take (%) | 9.1% | 9.1% | 9.1% | 31.8% | 50.0% | 50.0% | 50.0% | 50.0% | 50.0% | 72.7% | 90.9% | 100.0% | | |
| HARRORS | EAL H | ARVES | STRV | MONT | Ή | | | | | | | | Inknown | |

| HARBOR S | EAL HA | ARVES | ST BY I | MONT | 1 | | | | | | | l | Jnknown | |
|----------------|--------|--------|---------|--------|----------|--------|---------|--------|--------|------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | ARVEST | AND TA | KE BY | SAMPLE | D HOUS | SEHOLD | S (UNEX | PANDE | D) | | | | | |
| Harvest | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Struck & Lost | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Take | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| ESTIMATED H | ARVEST | AND TA | AKE BY | сомми | NITY (E. | XPANDE | D) | | | | | | | |
| Harvest | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Struck & Lost | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Take | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| ESTIMATED S | EASONA | LLY AD | JUSTED | HARVE | ST AND | TAKE E | Y COM | YTINUN | (EXPAN | DED) | | | | |
| Harvest | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Struck & Lost | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Take | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | | | | | | | | | | | | | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

SOURCE: Jones 2009.

Table 50. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: St. Paul, 2008

| | | Sea | Lion | | | Harb | or Seal | |
|----------------------|--------|--------|--------|-----------|---------|------|---------|---------|
| | Report | ed by | Commur | nity Est. | Reporte | d by | Commun | ty Est. |
| | Sam | ple | (Expai | nded) | Samp | ole | (Expan | ded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Adult Female | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Adult Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Juvenile Male | 20 | 100.0% | 20.0 | 100.0% | N/A | | N/A | |
| Juvenile Female | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Juvenile Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Pup Male | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Pup Female | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Pup Unknown Sex | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Male Unknown Age | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Female Unknown Age | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Unknown Sex and Age | 0 | 0.0% | 0.0 | 0.0% | N/A | | N/A | |
| Total | 20 | 100.0% | 20.0 | 100.0% | N/A | | N/A | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | HARBO | R SEA | L |
|------|----------------|---------|-------|-------------|----------------|---------|-------|
| | | Struck/ | Total | | | Struck/ | Total |
| Year | <u>Harvest</u> | Lost | Take | <u>Year</u> | <u>Harvest</u> | Lost | Take |
| 1992 | 161.7 | 65.2 | 226.8 | 1992 | 2.3 | 1.2 | 3.5 |
| 1993 | 161.7 | 65.2 | 226.8 | 1993 | 2.3 | 1.2 | 3.5 |
| 1994 | 147.0 | 26.4 | 173.4 | 1994 | 7.3 | 0.0 | 7.3 |
| 1995 | 53.6 | 6.3 | 59.9 | 1995 | 2.5 | 0.0 | 2.5 |
| 1996 | 28.2 | 10.2 | 38.4 | 1996 | 0.0 | 0.0 | 0.0 |
| 1997 | 25.9 | 2.3 | 28.2 | 1997 | 0.0 | 0.0 | 0.0 |
| 1998 | 41.0 | 16.9 | 57.8 | 1998 | 4.6 | 0.0 | 4.6 |
| 2000 | 17.3 | 5.7 | 23.0 | 2000 | N/A | N/A | N/A |
| 2001 | 12.0 | 12.0 | 24.0 | 2001 | N/A | N/A | N/A |
| 2002 | 18.0 | 18.0 | 36.0 | 2002 | N/A | N/A | N/A |
| 2003 | 13.0 | 5.0 | 18.0 | 2003 | N/A | N/A | N/A |
| 2004 | 9.0 | 9.0 | 18.0 | 2004 | N/A | N/A | N/A |
| 2005 | 19.0 | 3.0 | 22.0 | 2005 | N/A | N/A | N/A |
| 2006 | 20.0 | 6.0 | 26.0 | 2006 | N/A | N/A | N/A |
| 2007 | 22.0 | 12.0 | 34.0 | 2007 | N/A | N/A | N/A |
| 2008 | 20.0 | 2.0 | 22.0 | 2008 | N/A | N/A | N/A |

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998;

2000-2004 Zavadil et al. (2006); 2005 Lestenkof and Zavadil (2005); 2006 Lestenkof et al. (2007); 2007 Lestenkof et al. (2008); 2008 Jones (2009).

Table 51. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Egegik, 2008

CENSUS
Total Native Households 28
Surveyed Households 25
Sampling Fraction 89.3%

Sample Household Members 49
Estimated Household Members 54.9
2000 U.S. Census Estimated Native Population 89

HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest

and Take (Expanded): Sea Harbor Sea Harbor <u>Lion</u> <u>Seal</u> <u>Lion</u> <u>Seal</u> Total Number Harvested Used 0.0% 0.0 Hunted 0.0% 4.0% Total Number Struck and Lost 0.0 1.1 Harvested 0.0% Total Number Taken 0.0 0.0% 1.1 Received 0.0% 0.0%

Gave Away 0.0% 0.0% Number Harvested Per Capita 0.00 0.00

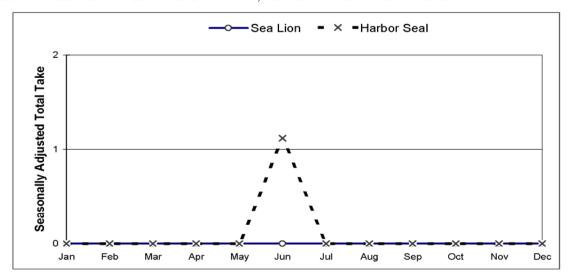
| SEA LION F | HARVE | STBY | MON' | ΤΗ | | | | | | | | Į | Jnknown | |
|----------------|----------|---------|----------|--------|----------|--------|-------|------|---------|--------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | TAKE B | Y SAMPLE | D HOUS | EHOLDS (| UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES | T AND T | AKE BY | СОММ | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | DJUSTE | O HAR√ | EST AN | D TAKE | BY CO | ММИП | TY (EXP | ANDED) | ı | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR S | SEAL H | IARVE | ST BY | MONT | ГН | | Unknown Jun Jul Aug Sep Oct Nov Dec Month Total | | | | | | | |
|----------------|--------|---------|---------|-------|--------|--------|--|--------|---------|--------|----------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | TAKE BY | SAMPL | ED HC | USEHC | DLDS (U | NEXPAI | NDED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| ESTIMATED H | HARVES | T AND | TAKE BY | COMN | IUNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| ESTIMATEDS | SEASON | ALLY A | DJUSTE | D HAR | /EST A | ND TAK | E BY C | NUMMC | ITY (EX | PANDEI |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 1.1 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 1.1 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 51. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Egegik, 2008

| | | Sea | a Lion | | | Harbo | r Seal | |
|----------------------|---------|------|---------|---------|---------|-------|----------|---------|
| | Reporte | d by | Communi | ty Est. | Reporte | d by | Communit | ty Est. |
| | Samp | le | (Expand | ded) | Samp | le | (Expan | ded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Adult Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Male Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Female Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Total | 0 | | 0.0 | | 0 | | 0.0 | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | IARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 3.3 | 14.3 | 17.7 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 7.7 | 3.3 | 11.0 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 12.8 | 0.0 | 12.8 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 1.4 | 0.0 | 1.4 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 2.8 | 0.0 | 2.8 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 1.6 | 0.0 | 1.6 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 0.0 | 0.0 | 0.0 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 4.0 | 3.0 | 7.0 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 6.3 | 1.0 | 7.3 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 2.2 | 1.1 | 3.2 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 4.0 | 1.0 | 5.0 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 15.4 | 4.4 | 19.8 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 1.1 | 2.1 | 3.2 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 3.0 | 0.0 | 3.0 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 3.0 | 0.0 | 3.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 0.0 | 1.1 | 1.1 |

Table 52. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: King Salmon, 2008

CENSUS Total Native Households 19
Surveyed Households 11

Sampling Fraction 57.9% Sample Household Members 39 Estimated Household Members 67.4

2000 U.S. Census Estimated Native Population 133

HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest

Sea Harbor and Take (Expanded): Sea Harbor <u>Lion</u> <u>Seal</u> <u>Lion</u> <u>Seal</u> Used 0.0% Total Number Harvested 9.1% 0.0 0.0 Hunted 0.0% Total Number Struck and Lost 0.0% 0.0 0.0 Harvested 0.0% 0.0% Total Number Taken 0.0 Received 0.0% 9.1% Gave Away 0.0% Number Harvested Per Capita 0.00 0.0% 0.00

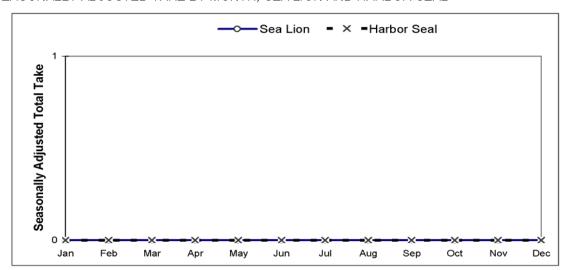
| SEA LION F | SEA LION HARVEST BY MONTH Unknown Lan Feb Mar Apr May Jun Jul Aug Sen Oct New Dec Month Total | | | | | | | | | | | | | |
|----------------|---|---------|----------|--------|----------|--------|-------|------|---------|--------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | TAKE B | Y SAMPLE | D HOUS | EHOLDS (| UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | IARVES | T AND T | AKE BY | СОММ | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | DJUSTEI |) HARV | EST AN | D TAKE | BY CO | ММИП | ΓΥ (ΕΧΡ | ANDED) |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR SEAL HARVEST BY MONTH Unknown Lab Feb Mar Apr May Jun Jul Aug Sep Oct New Doc Marth Total | | | | | | | | | | | | | | |
|--|--------|---------|--------|--------|---------|--------|--------|--------|---------|--------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | ARVES1 | ANDT | AKE BY | SAMPL | .ED HOL | JSEHOL | DS (UN | EXPAN | DED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | IARVES | T AND T | AKE BY | сомм | UNITY (| EXPANI | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY AI | DJUSTE | D HARV | /EST AN | D TAKE | BY CO | мминіт | TY (EXP | ANDED) | ı | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

Table 52. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: King Salmon, 2008

| | | Se | ea Lion | | | Harb | or Seal | |
|----------------------|---------|------|---------|---------|---------|------|---------|---------|
| | Reporte | d by | Communi | ty Est. | Reporte | d by | Communi | ty Est. |
| | Samp | ole | (Expan | ded) | Samp | ole | (Expand | ded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Adult Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Unknown Se> | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Male Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Female Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Total | 0 | | 0.0 | | 0 | | 0.0 | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | IARBO | R SEA | .L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 10.2 | 0.0 | 10.2 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 21.3 | 10.7 | 32.0 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 17.0 | 4.5 | 21.5 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 13.0 | 3.0 | 16.0 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 9.5 | 2.4 | 11.9 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 9.7 | 0.0 | 9.7 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 5.2 | 0.0 | 5.2 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 3.3 | 9.8 | 13.0 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 8.5 | 6.1 | 14.6 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 2.9 | 0.0 | 2.9 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 7.3 | 6.1 | 13.4 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 5.0 | 3.3 | 8.3 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 0.0 | 0.0 | 0.0 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 7.0 | 0.0 | 7.0 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 1.3 | 0.0 | 1.3 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 0.0 | 0.0 | 0.0 |

Table 53. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Levelock, 2008

CENSUS

Total Native Households 29 Surveyed Households 20 Sampling Fraction 69.0% Sample Household Members 67 97.2 **Estimated Household Members** 2000 U.S. Census Estimated Native Population 116

HARVEST AND USE INFORMATION

0.0%

45.0%

Percentage of Native Households: Estimated Community Harvest

> Sea Harbor and Take (Expanded): Sea Harbor <u>Lion</u> <u>Seal</u> **Lion** <u>Seal</u> Used 0.0% 65.0% Total Number Harvested 13.1 Hunted 0.0% Total Number Struck and Lost 0.0 13.1 60.0% Harvested 0.0% Total Number Taken 30.0% 26.1 Received 0.0% 45.0% Gave Away Number Harvested Per Capita 0.00

0.11

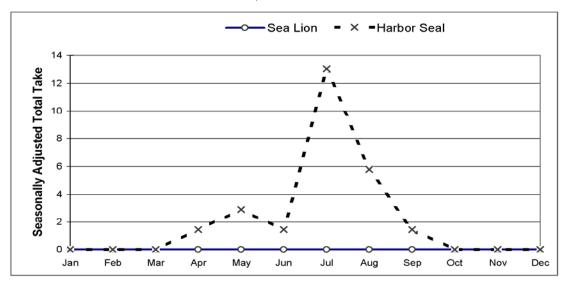
SEA LION HARVEST BY MONTH Unknown Aug Sep Oct Nov Dec Total Jan Feb Mav Jun Jul Month REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED) 0 0 0 0 0 0 Harvest 0 0 0 0 0 Struck & Lost 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Total Take 0 0 0 0 0 0 Ω 0 0 0 0 0 0 0 ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Harvest Struck & Lost 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Total Take (%) ------0.0 Cum. Take 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Cum. Take (%)

| HARBOR S | HARBOR SEAL HARVEST BY MONTH Unknown Lan Each Mar Apr May Jun Jul Aug Sep Oct Nov Dec Month Total | | | | | | | | | | | | | |
|----------------|---|---------|---------|-------|--------|--------|---------|--------|---------|--------|----------|--------|-------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | AKE BY | SAMP | LED HO | USEHO | LDS (UI | NEXPAN | NDED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 9 |
| Struck & Lost | 0 | 0 | 0 | 1 | 1 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 9 |
| Total Take | 0 | 0 | 0 | 1 | 2 | 1 | 9 | 4 | 1 | 0 | 0 | 0 | 0 | 18 |
| ESTIMATED H | HARVES | T AND | TAKE BY | COM | JUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 0.0 | 7.3 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 13.1 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 1.5 | 1.5 | 1.5 | 5.8 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.1 |
| Total Take | 0.0 | 0.0 | 0.0 | 1.5 | 2.9 | 1.5 | 13.1 | 5.8 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 26.1 |
| ESTIMATED | SEASON | IALLY A | DJUSTE | D HAR | VEST A | ND TAK | E BY CO | OMMUN | ITY (EX | PANDEI |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 0.0 | 7.3 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 | | 13.1 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 1.5 | 1.5 | 1.5 | 5.8 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | | 13.1 |
| Total Take | 0.0 | 0.0 | 0.0 | 1.5 | 2.9 | 1.5 | 13.1 | 5.8 | 1.5 | 0.0 | 0.0 | 0.0 | | 26.1 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 5.6% | 11.1% | 5.6% | 50.0% | 22.2% | 5.6% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 1.5 | 4.4 | 5.8 | 18.9 | 24.7 | 26.1 | 26.1 | 26.1 | 26.1 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 5.6% | 16.7% | 22.2% | 72.2% | 94.4% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 53. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Levelock, 2008

| | | S | ea Lion | | | | Ha | ırbor Seal | |
|----------------------|---------|------|---------|--------|---------|--------|--------|------------|-----------|
| | Reporte | d by | Со | mmuni | ty Est. | Report | ed by | Commu | nity Est. |
| | Samp | ole | (| Expand | ded) | Sam | ple | (Expa | nded) |
| | Number | % | Nun | nber | % | Number | % | Number | % |
| Adult Male | 0 | | | 0.0 | | 4 | 44.4% | 5.8 | 44.4% |
| Adult Female | 0 | | | 0.0 | | 5 | 55.6% | 7.3 | 55.6% |
| Adult Unknown Sex | 0 | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Male | 0 | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | | 0.0 | | 9 | 100.0% | 13.1 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | IARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 10.8 | 0.0 | 10.8 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 2.7 | 5.4 | 8.1 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 0.0 | 0.0 | 0.0 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 0.0 | 0.0 | 0.0 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 0.0 | 0.0 | 0.0 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 0.0 | 0.0 | 0.0 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 0.0 | 0.0 | 0.0 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 2.8 | 0.0 | 2.8 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 0.0 | 0.0 | 0.0 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 0.0 | 0.0 | 0.0 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 0.0 | 0.0 | 0.0 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 0.0 | 0.0 | 0.0 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 2.7 | 0.0 | 2.7 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 0.0 | 0.0 | 0.0 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 0.0 | 0.0 | 0.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 13.1 | 13.1 | 26.1 |

Table 54. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Naknek, 2008

TWO-STRATA Total Referred Households 68
Surveyed Households 42
Sampling Fraction 61.8%
Sample Household Members 119

Sample Household Members 119
Estimated Household Members 195.3
2000 U.S. Census Estimated Native Population 319

HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest

and Take (Expanded): Sea Harbor Sea Harbor <u>Lion</u> <u>Seal</u> <u>Lion</u> <u>Seal</u> Used 0.0% 17.2% Total Number Harvested 0.0 15.1 Hunted 0.0% Total Number Struck and Lost 11.1% 7.6 Harvested 0.0% 6.5% Total Number Taken 22.7 Received 0.0% 10.6% Number Harvested Per Capita 0 00 Gave Away 0.0% 0.05

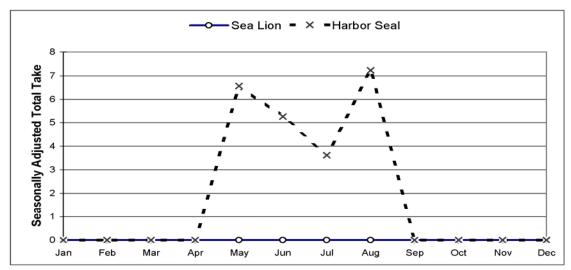
| SEA LION I | HARVE | STBY | ′ MON | TH | | | | | | | | l | Jnknown | |
|----------------|----------|---------|----------|---------|----------|----------|--------|--------|-------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | TAKE B | Y SAMPLE | ED HOUS | EHOLDS (| (UNEXPAI | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED F | IARVES | TANDT | AKE BY | СОММ | UNITY (| EXPAND | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY AI | DJUSTE | D HARV | EST AN | D TAKE | BY COM | MUNITY | (EXPA | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |
| HARBOR S | EAL H | ARVE, | ST BY | MONT | Н | | | | | | | Į | Jnknown | |

| HARBOR S | SEAL H | IARVE | ST BY | MON | TH | | | | | | | Į | Jnknown | |
|----------------|--------|---------|---------|-------|--------|--------|---------|--------|----------|--------|--------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | AKE BY | SAMP | LED HO | USEHO | LDS (UN | IEXPAN | DED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 4 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 10 |
| Struck & Lost | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| Total Take | 0 | 0 | 0 | 0 | 5 | 4 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 15 |
| ESTIMATED H | HARVES | TAND | TAKE BY | COM | JUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 2.6 | 3.6 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.1 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 2.6 | 0.0 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.6 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 5.3 | 3.6 | 7.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.7 |
| ESTIMATED S | SEASON | IALLY A | DJUSTE | D HAR | VEST A | ND TAK | E BY CC | ПИПМИ | TY (EXP. | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 2.6 | 3.6 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | | 15.1 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 2.6 | 0.0 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | | 7.6 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 5.3 | 3.6 | 7.2 | 0.0 | 0.0 | 0.0 | 0.0 | | 22.7 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 29.0% | 23.2% | 16.0% | 31.9% | 0.0% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 11.8 | 15.4 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 29.0% | 52.1% | 68.1% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 54. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Naknek, 2008

| | | Se | ea Lion | | | Harbo | r Seal | |
|----------------------|---------|------|---------|----------|--------|--------|--------|-----------|
| | Reporte | d by | Commun | ity Est. | Report | ed by | Commu | nity Est. |
| | Samp | ole | (Expan | ded) | Sam | ple | (Expar | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 6 | 60.0% | 9.4 | 62.0% |
| Adult Female | 0 | | 0.0 | | 2 | 20.0% | 3.1 | 20.7% |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | | 0.0 | | 1 | 10.0% | 1.3 | 8.7% |
| Juvenile Unknown Se> | 0 | | 0.0 | | 1 | 10.0% | 1.3 | 8.7% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 10 | 100.0% | 15.1 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | Н | ARBOR | R SEAL | _ |
|-------------|----------------|-------------|-------------|-------------|----------------|---------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | Lost | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 26.6 | 7.0 | 33.6 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 2.7 | 0.0 | 2.7 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 21.4 | 8.3 | 29.7 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 34.8 | 15.3 | 50.2 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 16.2 | 7.5 | 23.7 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 24.8 | 6.5 | 31.2 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 15.7 | 7.8 | 23.5 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 16.3 | 0.0 | 16.3 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 15.1 | 4.3 | 19.4 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 26.2 | 12.5 | 38.7 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 10.5 | 0.0 | 10.5 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 15.2 | 3.8 | 19.0 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 6.2 | 0.0 | 6.2 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 15.1 | 7.5 | 22.6 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 20.1 | 0.0 | 20.1 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 15.1 | 7.6 | 22.7 |

Table 55. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Pilot Point, 2008

CENSUS
Total Native Households 21
Surveyed Households 8
Sampling Fraction 38.1%

Sample Household Members 15
Estimated Household Members 39.4
2000 U.S. Census Estimated Native Population 86

HARVEST AND USE INFORMATION

| Percentage of Native Ho | ouseh | olds: | Estimated Community Harvest | | |
|-------------------------|-------------|-------------|------------------------------|-------------|-------------|
| | Sea | Harbor | and Take (Expanded): | Sea | Harbor |
| | <u>Lion</u> | <u>Seal</u> | | <u>Lion</u> | <u>Seal</u> |
| Used | 0.0% | 12.5% | Total Number Harvested | 0.0 | 2.6 |
| Hunted | 0.0% | 12.5% | Total Number Struck and Lost | 0.0 | 0.0 |

Harvested 0.0% 12.5% Received 0.0% 0.0%

Gave Away 0.0% 0.0% Number Harvested Per Capita 0.00 0.03

Total Number Taken 0.0

2.6

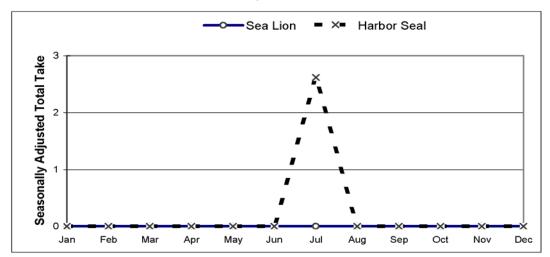
| SEA LION F | HARVE | ST BY | / MON | TH | | | | | | | | Į | Jnknown | |
|----------------|----------|--------|----------|---------|---------|---------|-------|--------|--------|--------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | TAKE B | Y SAMPLE | ED HOUS | EHOLDS | (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES | TAND | TAKE BY | СОММ | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | DJUSTE | D HARV | EST AN | D TAKE | BY CO | ММИМІТ | Y (EXP | ANDED) | ı | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR S | SEAL H | IARVE | ST BY | MON | ТН | | | | | | | l | Jnknown | |
|----------------|--------|---------|---------|--------|---------|--------|---------|--------|---------|--------|------------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | HARVES | T AND T | TAKE BY | 'SAMPI | ED HO | USEHC | DLDS (U | NEXPAN | NDED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| ESTIMATED I | HARVES | TAND | TAKE BY | COMM | UNITY | (EXPAI | NDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 |
| ESTIMATED S | SEASON | IALLY A | DJUSTE | D HAR | /EST AI | ND TAK | E BY C | OMMUN | ITY (EX | PANDE | D) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 2.6 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 2.6 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 55. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Pilot Point, 2008

| | | Se | a Lion | | | Harb | or Seal | |
|----------------------|---------|------|---------|---------|--------|--------|---------|-----------|
| | Reporte | d by | Communi | ty Est. | Report | ed by | Commu | nity Est. |
| | Samp | le | (Expand | ded) | Sam | ıple | (Expai | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Adult Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Se> | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 1 | 100.0% | 2.6 | 100.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 1 | 100.0% | 2.6 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | _ | H | IARBO | R SEA | L |
|-------------|----------------|-------------|-------------|---|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | _ | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | | 1992 | 5.4 | 4.3 | 9.7 |
| 1993 | 0.0 | 0.0 | 0.0 | | 1993 | 2.2 | 0.0 | 2.2 |
| 1994 | 0.0 | 0.0 | 0.0 | | 1994 | 3.1 | 0.0 | 3.1 |
| 1995 | 0.0 | 0.0 | 0.0 | | 1995 | 0.0 | 0.0 | 0.0 |
| 1996 | 0.0 | 0.0 | 0.0 | | 1996 | 0.0 | 0.0 | 0.0 |
| 1997 | 0.0 | 0.0 | 0.0 | | 1997 | 0.0 | 0.0 | 0.0 |
| 1998 | 0.0 | 0.0 | 0.0 | | 1998 | 0.0 | 0.0 | 0.0 |
| 2000 | 0.0 | 0.0 | 0.0 | | 2000 | 5.3 | 2.1 | 7.4 |
| 2001 | 0.0 | 0.0 | 0.0 | | 2001 | 2.0 | 2.0 | 4.0 |
| 2002 | 0.0 | 0.0 | 0.0 | | 2002 | 2.0 | 2.0 | 4.0 |
| 2003 | 0.0 | 0.0 | 0.0 | | 2003 | 2.7 | 2.7 | 5.3 |
| 2004 | 0.0 | 0.0 | 0.0 | | 2004 | 1.9 | 5.6 | 7.4 |
| 2005 | 0.0 | 0.0 | 0.0 | | 2005 | 0.0 | 0.0 | 0.0 |
| 2006 | 0.0 | 0.0 | 0.0 | | 2006 | 3.0 | 0.0 | 3.0 |
| 2007 | 0.0 | 0.0 | 0.0 | | 2007 | 3.0 | 0.0 | 3.0 |
| 2008 | 0.0 | 0.0 | 0.0 | | 2008 | 2.6 | 0.0 | 2.6 |

Table 56. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Port Heiden, 2008

CENSUS Total Native Households 23
Surveyed Households 21

Sampling Fraction 91.3%
Sample Household Members 70
Estimated Household Members 76.7

2000 U.S. Census Estimated Native Population

HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest

and Take (Expanded): Sea Harbor Sea Harbor <u>Lion</u> <u>Seal</u> <u>Lion</u> <u>Seal</u> Used 0.0% 38.1% Total Number Harvested 0.0 36.1 Hunted 0.0% Total Number Struck and Lost 0.0 38.1% 16.4 Harvested 0.0% 28.6% Total Number Taken 52.6 Received 0.0% 14.3%

93

Gave Away 0.0% 28.6% Number Harvested Per Capita 0.00 0.39

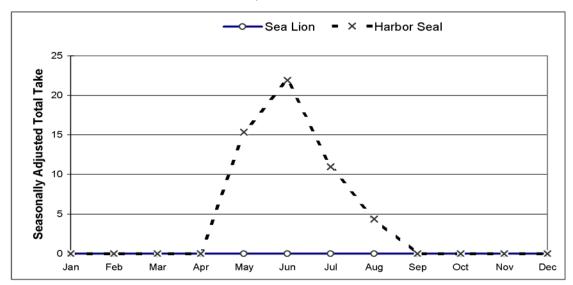
| SEA LION H | HARVE | STBY | / MON | TH | | | | | | | | Į | Jnknown | |
|----------------|----------|---------|----------|--------|----------|---------|-------|--------|----------|--------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | TAKE B | Y SAMPLE | D HOUS | EHOLDS (| (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | IARVES | T AND T | AKE BY | СОММ | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY AI | DJUSTEI | D HAR√ | EST AN | D TAKE | BY CO | ММИМІТ | TY (EXPA | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR S | SEAL H | IARVE | ST BY | MON | TH | | | | | | | Į | Jnknown | |
|----------------|--------|---------|---------|-------|--------|--------|--------|--------|-----------|---------|--------|--------|---------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | IARVES | T AND T | TAKE BY | SAMP | LED HO | USEHO | LDS (U | NEXPAI | NDED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 6 | 14 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 33 |
| Struck & Lost | 0 | 0 | 0 | 0 | 8 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Total Take | 0 | 0 | 0 | 0 | 14 | 20 | 10 | 4 | 0 | 0 | 0 | 0 | 0 | 48 |
| ESTIMATED I | HARVES | T AND | TAKE BY | COM | MUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 15.3 | 9.9 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 36.1 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 | 6.6 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.4 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 15.3 | 21.9 | 11.0 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 52.6 |
| ESTIMATED S | SEASON | IALLY A | DJUSTE | D HAR | VEST A | ND TAK | E BY C | NUMMC | IITY (EXF | PANDED) |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 15.3 | 9.9 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | | 36.1 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 | 6.6 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 16.4 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 15.3 | 21.9 | 11.0 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | | 52.6 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 29.2% | 41.7% | 20.8% | 8.3% | 0.0% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 15.3 | 37.2 | 48.2 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 29.2% | 70.8% | 91.7% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 56. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Heiden, 2008

| | | Se | a Lion | | | Harb | or Seal | |
|----------------------|---------|------|---------|---------|---------|--------|---------|-----------|
| | Reporte | d by | Communi | ty Est. | Reporte | d by | Commur | nity Est. |
| | Samp | ole | (Expan | ded) | Samp | ole | (Expar | nded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 13 | 39.4% | 14.2 | 39.4% |
| Adult Female | 0 | | 0.0 | | 5 | 15.2% | 5.5 | 15.2% |
| Adult Unknown Sex | 0 | | 0.0 | | 13 | 39.4% | 14.2 | 39.4% |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 2 | 6.1% | 2.2 | 6.1% |
| Total | 0 | | 0.0 | | 33 | 100.0% | 36.1 | 100.0% |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | I | HARBO | R SEA | <u>L</u> |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 40.5 | 36.0 | 76.5 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 30.7 | 19.9 | 50.6 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 63.0 | 45.3 | 108.3 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 17.0 | 10.0 | 27.0 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 34.3 | 34.3 | 68.6 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 69.2 | 50.0 | 119.2 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 36.1 | 18.6 | 54.7 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 19.6 | 0.0 | 19.6 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 10.1 | 3.4 | 13.4 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 30.4 | 18.3 | 48.7 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 10.0 | 5.6 | 15.6 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 20.0 | 13.0 | 33.0 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 13.0 | 19.5 | 32.5 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 17.3 | 6.5 | 23.8 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 24.0 | 22.0 | 46.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 36.1 | 16.4 | 52.6 |

Table 57. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: South Naknek, 2008

CENSUS Total Native Households 21
Surveyed Households 9
Sampling Fraction 42.9%

Sample Household Members 24
Estimated Household Members 56.0
2000 U.S. Census Estimated Native Population 115

HARVEST AND USE INFORMATION

Percentage of Native Households: Estimated Community Harvest

Sea Harbor and Take (Expanded): Sea Harbor <u>Lion</u> <u>Seal</u> <u>Lion</u> <u>Seal</u> Used 0.0% Total Number Harvested 33.3% 0.0 0.0 Hunted 0.0% Total Number Struck and Lost 0.0% 0.0 0.0 Harvested 0.0% 0.0% Total Number Taken 0.0 Received 0.0% 33.3% Gave Away 0.0% Number Harvested Per Capita 0 00 0.0% 0.00

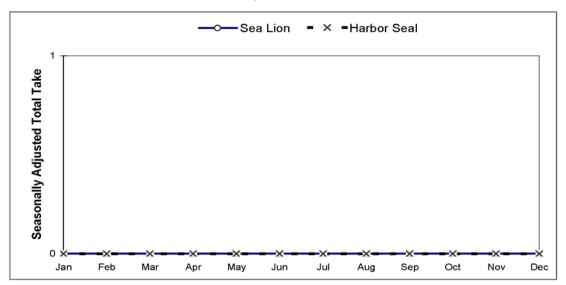
| SEA LION F | IARVE | ST BY | MON' | TH | | | | | | | | Į | Jnknown | |
|----------------|----------|---------|----------|--------|----------|---------|-------|--------|--------|--------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HARV | /EST AND | TAKE B | Y SAMPLE | D HOUS | EHOLDS (| (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES | T AND T | AKE BY | СОММ | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | JUSTE | O HAR√ | EST AN | D TAKE | BY CO | мминіт | Y (EXP | ANDED) |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

| HARBOR SEAL HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|--------------------------------------|--------|---------|--------|--------|---------|--------|--------|-------|--------|--------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED H | ARVEST | ANDT | AKE BY | SAMPL | .ED HOL | JSEHOL | DS (UN | EXPAN | DED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES | T AND T | AKE BY | COMM | UNITY (| EXPAND | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY AI | DJUSTE | D HARV | /EST AN | D TAKE | BY CO | ММИП | Y (EXP | ANDED) | 1 | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

Table 57. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: South Naknek, 2008

| | | Se | a Lion | | | Harbo | r Seal | |
|----------------------|---------|------|---------|---------|---------|-------|---------|---------|
| | Reporte | d by | Communi | ty Est. | Reporte | d by | Communi | ty Est. |
| | Samp | ole | (Expand | ded) | Samp | ole | (Expand | ded) |
| | Number | % | Number | % | Number | % | Number | % |
| Adult Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Adult Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Male | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Female | 0 | | 0.0 | | 0 | | 0.0 | |
| Pup Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | |
| Male Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Female Unknown Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | | 0.0 | |
| Total | 0 | | 0.0 | | 0 | | 0.0 | |

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA I | LION | | | IARBO | R SEA | L |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1992 | 2.3 | 6.9 | 9.2 |
| 1993 | 0.0 | 0.0 | 0.0 | 1993 | 6.4 | 18.0 | 24.4 |
| 1994 | 0.0 | 0.0 | 0.0 | 1994 | 4.4 | 1.1 | 5.5 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 2.1 | 0.0 | 2.1 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 1.0 | 0.0 | 1.0 |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 2.5 | 9.8 | 12.3 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 5.2 | 7.9 | 13.1 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 4.1 | 2.7 | 6.8 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 11.0 | 3.0 | 14.0 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 16.0 | 3.0 | 19.0 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 1.1 | 0.0 | 1.1 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 15.4 | 4.4 | 19.8 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 17.3 | 9.2 | 26.5 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 0.0 | 0.0 | 0.0 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 1.0 | 0.0 | 1.0 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 0.0 | 0.0 | 0.0 |

Table 58. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Aleknagik, 2008

| SAMPLING DESIGN: | | <u>Total</u> | |
|------------------|---|--------------|--|
| CENSUS | Total Native Households | 45 | |
| | Surveyed Households | 27 | |
| | Sampling Fraction | 60.0% | |
| | Sample Household Members | 113 | |
| | Estimated Household Members | 187.6 | |
| 2000 U | J.S. Census Estimated Native Population | 187 | |

| HARVEST AND USE IN | IFOR | MATION | | | | |
|-------------------------|-------------|-----------------|------------------------------|-------------|-------------|-------------|
| Percentage of Native Ho | ouseh | olds: | Estimated Community Harvest | | | |
| | Sea | Harbor Seal and | and Take (Expanded): | Sea | Harbor | Spotted |
| | <u>Lion</u> | Spotted Seal | | <u>Lion</u> | <u>Seal</u> | <u>Seal</u> |
| Used | 0.0% | 48.1% | Total Number Harvested | 0.0 | 5.0 | 6.7 |
| Hunted | 0.0% | 18.5% | Total Number Struck and Lost | 0.0 | 1.7 | 0.0 |
| Harvested | 0.0% | 14.8% | Total Number Taken | 0.0 | 6.7 | 6.7 |
| Received | 0.0% | 33.3% | | | | |
| Gave Away | 0.0% | 22.2% | Number Harvested Per Capita | 0.00 | 0.03 | 0.04 |

| SEA LION F | SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | |
|----------------|-----------------------------------|---------|----------|---------|-----------|----------|--------|--------|--------|------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | TAKE B | Y SAMPLE | ED HOUS | EHOLDS (L | JNEXPAND | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES | T AND T | AKE BY | СОММ | UNITY (E | XPANDE | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | DJUSTE | D HARV | EST AND | TAKE E | BY COM | JUNITY | EXPAND | DED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

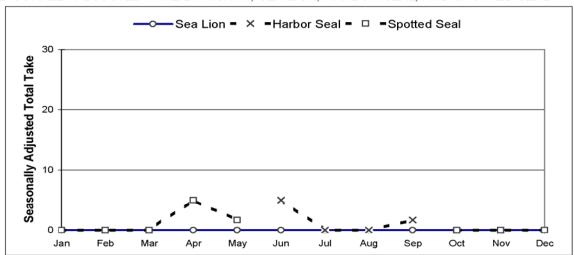
| HARBOR | SEAL A | ND SF | POTTE | D SEA | L HAR | VEST I | ЗҮ МО | NTH | | | | | | |
|----------------|--------|---------|-----------|---------|----------|---------|---------|--------|--------|--------|-----------|--------|---------|--------|
| 1 [| | | otted Sea | | | | Harbor | | | | otted Sea | | Unknown | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED | HARVES | T AND T | AKE BY | / SAMPI | LED HOU | JSEHOLI | OS (UNE | XPANDE | ED) | | | | | |
| Harvest | 0 | 0 | 0 | 3 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 7 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Take | 0 | 0 | 0 | 3 | 1 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 8 |
| ESTIMATED | HARVES | TAND | TAKE B | Y COMM | IUNITY (| EXPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 5.0 | 1.7 | 3.3 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 11.7 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| Total Take | 0.0 | 0.0 | 0.0 | 5.0 | 1.7 | 5.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 13.8 |
| ESTIMATED | SEASON | IALLY A | DJUSTE | D HAR | VEST AN | ID TAKE | BY COM | MUNITY | (EXPAI | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 5.0 | 1.7 | 3.3 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | | 11.7 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 1.7 |
| Total Take | 0.0 | 0.0 | 0.0 | 5.0 | 1.7 | 5.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | | 13.3 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 37.5% | 12.5% | 37.5% | 0.0% | 0.0% | 12.5% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 5.0 | 6.7 | 11.7 | 11.7 | 11.7 | 13.3 | 13.3 | 13.3 | 13.3 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 37.5% | 50.0% | 87.5% | 87.5% | 87.5% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 58. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Aleknagik, 2008

| | | Sea | Lion | | | Harbo | r Seal | | | Spotte | ed Seal | |
|----------------------|---------------|----------|---------------|----------|---------------|----------|---------------|-----------|---------------|----------|---------------|-----------|
| | Reporte | d by | Commun | ity Est. | Reporte | ed by | Commur | nity Est. | Report | ed by | Commur | nity Est. |
| | Samp | le | (Expanded) | | Sample* | | (Expanded) | | Sample* | | (Expar | nded) |
| | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> |
| Adult Male | 0 | | | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Adult Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Adult Unknown Sex | _ | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | _ | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | | 0 | | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | 0 | | | 3 | 100.0% | 5.0 | 100.0% | 4 | 100.0% | 6.7 | 100.0% |
| Total | 0 | | 0.0 | | 3 | 100.0% | 5.0 | 100.0% | 4 | 100.0% | 6.7 | 100.0% |

^{*} Harvest in unknown months is not included in the sample harvest, but is included in the community estimate column.

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION, HARBOR SEAL, AND SPOTTED SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | _ | H | HARBO | R SEAL | _ | _ | S | POTTE | D SEA | ۱L |
|-------------|----------------|-------------|-------------|---|-------------|----------------|-------------|-------------|---|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | | Struck/ | Total | | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | | 1992 | 0.0 | 3.6 | 3.6 | | 1992 | 28.6 | 5.5 | 34.1 |
| 1993 | 0.0 | 0.0 | 0.0 | | 1993 | 0.0 | 0.0 | 0.0 | | 1993 | 4.8 | 0.0 | 4.8 |
| 1994 | 0.0 | 0.0 | 0.0 | | 1994 | 0.0 | 3.3 | 3.3 | | 1994 | 21.5 | 0.0 | 21.5 |
| 1995 | 0.0 | 0.0 | 0.0 | | 1995 | 0.0 | 0.0 | 0.0 | | 1995 | 11.8 | 13.0 | 24.9 |
| 1996 | 0.0 | 0.0 | 0.0 | | 1996 | 0.0 | 0.0 | 0.0 | | 1996 | 7.1 | 0.0 | 7.1 |
| 1997 | 0.0 | 0.0 | 0.0 | | 1997 | 1.2 | 0.0 | 1.2 | | 1997 | 10.8 | 0.0 | 10.8 |
| 1998 | 0.0 | 0.0 | 0.0 | | 1998 | 3.1 | 0.0 | 3.1 | | 1998 | 5.2 | 0.0 | 5.2 |
| 2000 | 0.0 | 0.0 | 0.0 | | 2000 | 2.5 | 0.0 | 2.5 | | 2000 | 6.1 | 2.5 | 8.6 |
| 2001 | 0.0 | 0.0 | 0.0 | | 2001 | 0.0 | 1.2 | 1.2 | | 2001 | 0.0 | 0.0 | 0.0 |
| 2002 | 0.0 | 0.0 | 0.0 | | 2002 | 0.0 | 2.2 | 2.2 | | 2002 | 6.6 | 11.0 | 17.6 |
| 2003 | 0.0 | 0.0 | 0.0 | | 2003 | 0.0 | 0.0 | 0.0 | | 2003 | 3.8 | 0.0 | 3.8 |
| 2004 | 0.0 | 0.0 | 0.0 | | 2004 | 0.0 | 0.0 | 0.0 | | 2004 | 4.6 | 1.5 | 6.1 |
| 2005 | 0.0 | 0.0 | 0.0 | | 2005 | 0.0 | 0.0 | 0.0 | | 2005 | 9.6 | 7.2 | 16.9 |
| 2006 | 0.0 | 0.0 | 0.0 | | 2006 | 0.0 | 0.0 | 0.0 | | 2006 | 9.6 | 7.2 | 16.9 |
| 2007 | 0.0 | 0.0 | 0.0 | | 2007 | 0.0 | 0.0 | 0.0 | | 2007 | 14.3 | 3.9 | 18.2 |
| 2008 | 0.0 | 0.0 | 0.0 | | 2008 | 5.0 | 1.7 | 6.7 | | 2008 | 6.7 | 0.0 | 6.7 |

Table 59. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Clark's Point, 2008

| SAMPLING DESIGN: | | <u>Total</u> |
|------------------|---------------------------------------|--------------|
| CENSUS | Total Native Households | 18 |
| | Surveyed Households | 11 |
| | Sampling Fraction | 61.1% |
| | Sample Household Members | 23 |
| | Estimated Household Members | 37.6 |
| 2000 U.\$ | S. Census Estimated Native Population | 69 |

| HARVEST AND USE IN | IFOR. | MATION | | | | |
|-------------------------|-------------|-----------------|------------------------------|-------------|-------------|-------------|
| Percentage of Native Ho | ouseh | nolds: | Estimated Community Harvest | | | |
| | Sea | Harbor Seal and | and Take (Expanded): | Sea | Harbor | Spotted |
| | <u>Lion</u> | Spotted Seal | | <u>Lion</u> | <u>Seal</u> | <u>Seal</u> |
| Used | 0.0% | 45.5% | Total Number Harvested | 0.0 | 0.0 | 14.7 |
| Hunted | 0.0% | 27.3% | Total Number Struck and Lost | 0.0 | 0.0 | 3.3 |
| Harvested | 0.0% | 27.3% | Total Number Taken | 0.0 | 0.0 | 18.0 |
| Received | 0.0% | 18.2% | | | | |
| Gave Away | 0.0% | 9.1% | Number Harvested Per Capita | 0.00 | 0.00 | 0.21 |

| SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|-----------------------------------|----------|---------|----------|---------|----------|---------|--------|--------|--------|-------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR\ | /EST AND | TAKE BY | / SAMPLE | D HOUSE | HOLDS (L | JNEXPAN | DED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | AND T | AKE BY | сомми | JNITY (E | XPAND | ED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY AD | JUSTE | HARVI | EST AND | TAKE I | BY COM | MUNITY | (EXPAI | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

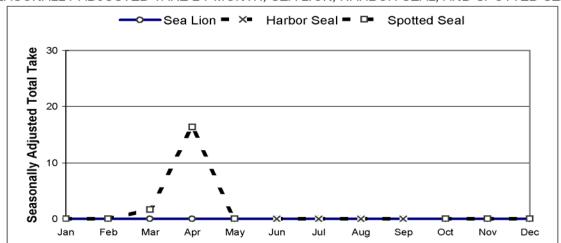
| HARBOR | SEAL A | ND SF | POTTE | D SE | 4L HAI | RVEST | BYM | ONTH | | | | | | |
|----------------|--------|---------|-----------|---------|---------|---------|---------|--------|--------|--------|-----------|--------|---------|--------|
| | | | otted Sea | | | | Harbor | | | | otted Sea | | Unknown | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED | HARVES | T AND T | AKE BY | / SAMPI | ED HO | JSEHOL | .DS (UN | EXPAND | DED) | | | | | |
| Harvest | 0 | 0 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Struck & Lost | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Total Take | 0 | 0 | 1 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| ESTIMATED | HARVES | T AND T | AKE B | Y COMM | UNITY (| (EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 1.6 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.7 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 |
| Total Take | 0.0 | 0.0 | 1.6 | 16.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.0 |
| ESTIMATED | SEASON | ALLY A | DJUSTE | ED HAR | /EST AN | ND TAKE | BY CO | ММИП | Y (EXP | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 1.6 | 13.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 14.7 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 3.3 |
| Total Take | 0.0 | 0.0 | 1.6 | 16.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 18.0 |
| Total Take (%) | 0.0% | 0.0% | 9.1% | 90.9% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 1.6 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | | |
| Cum. Take (%) | 0.0% | 0.0% | 9.1% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 59. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Clark's Point, 2008

| | | Sea | Lion | | | Harbo | r Seal | | | Spotte | d Seal | |
|----------------------|--------------------------------|----------|---------------|----------|---------------|------------------|---------------|----------|---------------|------------------|---------------|----------|
| | Reported by Sample Number % 0 | | Commun | ity Est. | Reporte | d by | Communi | ity Est. | Report | ed by | Commun | ity Est. |
| | Samp | ole | (Expan | ided) | Samp | ole [*] | (Expan | ded) | Sam | ple [*] | (Expar | nded) |
| | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> |
| Adult Male | 0 | | 0.0 | | 0 | | 0.0 | | 3 | 33.3% | 4.9 | 33.3% |
| Adult Female | 0 | | 0.0 | | 0 | | 0.0 | | 1 | 11.1% | 1.6 | 11.1% |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | 1 | 11.1% | 1.6 | 11.1% |
| Juvenile Male | 0 | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | 4 | 44.4% | 6.5 | 44.4% |
| Pup Male | 0 | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 0 | | 0.0 | | 9 | 100.0% | 14.7 | 100.0% |

^{*} Harvest in unknown months is not included in the sample harvest, but is included in the community estimate column.

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION, HARBOR SEAL, AND SPOTTED SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | H | IARBO | R SEA | L | S | POTTE | D SEA | ٩L |
|-------------|----------------|-------------|-------------|---|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | _ | <u>rear</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 1 | 992 | 0.0 | 0.0 | 0.0 | 1992 | 10.6 | 8.5 | 19.1 |
| 1993 | 0.0 | 0.0 | 0.0 | 1 | 993 | 0.0 | 0.0 | 0.0 | 1993 | 2.0 | 0.0 | 2.0 |
| 1994 | 0.0 | 0.0 | 0.0 | 1 | 994 | 0.0 | 0.0 | 0.0 | 1994 | 2.0 | 0.0 | 2.0 |
| 1995 | 0.0 | 0.0 | 0.0 | 1 | 995 | 0.0 | 0.0 | 0.0 | 1995 | 10.0 | 5.0 | 15.0 |
| 1996 | 0.0 | 0.0 | 0.0 | 1 | 996 | 0.0 | 0.0 | 0.0 | 1996 | 17.1 | 3.8 | 20.9 |
| 1997 | 0.0 | 0.0 | 0.0 | 1 | 997 | 1.3 | 0.0 | 1.3 | 1997 | 3.8 | 1.3 | 5.0 |
| 1998 | 0.0 | 0.0 | 0.0 | 1 | 998 | 1.3 | 0.0 | 1.3 | 1998 | 3.8 | 1.3 | 5.0 |
| 2000 | 0.0 | 0.0 | 0.0 | 2 | 2000 | 0.0 | 0.0 | 0.0 | 2000 | 22.4 | 1.4 | 23.8 |
| 2001 | 0.0 | 0.0 | 0.0 | 2 | 001 | 0.0 | 0.0 | 0.0 | 2001 | 28.2 | 11.5 | 39.7 |
| 2002 | 0.0 | 0.0 | 0.0 | 2 | 002 | 0.0 | 0.0 | 0.0 | 2002 | 81.0 | 13.3 | 94.3 |
| 2003 | 0.0 | 0.0 | 0.0 | 2 | 2003 | 0.0 | 0.0 | 0.0 | 2003 | 2.0 | 0.0 | 2.0 |
| 2004 | 0.0 | 0.0 | 0.0 | 2 | 004 | 0.0 | 0.0 | 0.0 | 2004 | 27.0 | 15.0 | 42.0 |
| 2005 | 0.0 | 0.0 | 0.0 | 2 | 005 | 2.8 | 0.0 | 2.8 | 2005 | 5.5 | 0.0 | 5.5 |
| 2006 | 0.0 | 0.0 | 0.0 | 2 | 006 | 0.0 | 0.0 | 0.0 | 2006 | 14.1 | 2.6 | 16.6 |
| 2007 | 0.0 | 0.0 | 0.0 | 2 | 007 | 0.0 | 0.0 | 0.0 | 2007 | 24.1 | 0.0 | 24.1 |
| 2008 | 0.0 | 0.0 | 0.0 | 2 | 800 | 0.0 | 0.0 | 0.0 | 2008 | 14.7 | 3.3 | 18.0 |

Table 60. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Dillingham, 2008

| SAMPLING DESIG | N: | <u>Active</u> | <u>Other</u> | <u>Total</u> | |
|-----------------|--------------------------------|---------------|--------------|--------------|--|
| TWO-STRATA | Total Native Households | | 156 | 175 | |
| | Surveyed Households | 15 | 143 | 158 | |
| | Sampling Fraction | 78.9% | 91.7% | 90.3% | |
| | Sample Household Members | 40 | 437 | 477 | |
| E | stimated Household Members | 50.7 | 477.2 | 527.9 | |
| 2000 U.S. Censu | is Estimated Native Population | | | 1503 | |

HARVEST AND USE INFORMATION

| Percentage of Native He | ouseh | nolds: | Estimated Community Harvest | | | |
|-------------------------|-------------|-----------------|------------------------------|------|-------------|-------------|
| | Sea | Harbor Seal and | and Take (Expanded): | Sea | Harbor | Spotted |
| | <u>Lion</u> | Spotted Seal | | Lion | <u>Seal</u> | <u>Seal</u> |
| Used | 0.0% | 65.3% | Total Number Harvested | 0.0 | 5.5 | 1.1 |
| Hunted | 0.0% | 3.2% | Total Number Struck and Lost | 0.0 | 0.0 | 1.1 |
| Harvested | 0.0% | 1.2% | Total Number Taken | 0.0 | 5.5 | 2.2 |
| Received | 0.0% | 65.3% | | | | |
| Gave Away | 0.0% | 2.0% | Number Harvested Per Capita | 0.00 | 0.00 | 0.00 |

| SEA LION F | <i>IARVE</i> | STBY | / MON | ГН | | | | | | | | Į | Jnknown | |
|----------------|--------------|---------|----------|--------|----------|--------|-------|--------|---------|--------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HARV | /EST AND | TAKE B | Y SAMPLE | D HOUS | EHOLDS (| UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVEST | Γ AND Τ | AKE BY | COMM | UNITY (| EXPAN | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASONA | ALLY A | DJUSTEI |) HARV | 'EST AN | D TAKE | BY CO | ММИМІТ | TY (EXP | ANDED) | ı | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

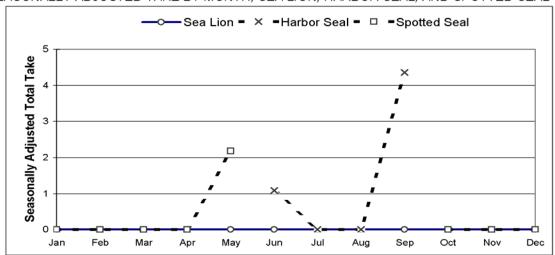
| HARBOR | SEAL A | ND SF | POTTE | D SEA | AL HAF | RVEST | BYM | ONTH | 1 | | | | | |
|----------------|--------|---------|------------|-------|--------|--------|---------|--------|---------|--------|-----------|--------|---------|--------|
| | | | otted Seal | | | | Harbor | | | | otted Sea | | Jnknown | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED | HARVES | T AND T | TAKE BY | SAMP | LED HC | USEHO | LDS (UI | 1EXPA1 | NDED) | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 6 |
| Struck & Lost | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Take | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 7 |
| ESTIMATED | HARVES | T AND | TAKE BY | COM | JUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 1.1 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 7.6 |
| ESTIMATED | SEASON | IALLY A | DJUSTE | D HAR | VEST A | ND TAK | E BY CO | MMUN | ITY (EX | PANDEI |) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 0.0 | | 6.5 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 1.1 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 1.1 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 0.0 | | 7.6 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 28.6% | 14.3% | 0.0% | 0.0% | 57.1% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 3.3 | 3.3 | 3.3 | 7.6 | 7.6 | 7.6 | 7.6 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 0.0% | 28.6% | 42.9% | 42.9% | 42.9% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 60. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Dillingham, 2008

| | | Sea | Lion | | | Harbo | r Seal | | | Spotte | d Seal | |
|----------------------|---------------|----------|---------------|----------|---------------|------------------|---------------|-----------|---------------|------------------|---------------|-----------|
| | Reporte | d by | Commun | ity Est. | Reporte | ed by | Commur | nity Est. | Report | ed by | Commur | nity Est. |
| | Samp | le | (Expan | ded) | Sam | ole [*] | (Expar | nded) | Sam | ple [*] | (Expar | nded) |
| | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> |
| Adult Male | 0 | | 0.0 | | 2 | 40.0% | 2.2 | 40.0% | 1 | 100.0% | 1.1 | 100.0% |
| Adult Female | 0 | | 0.0 | | 2 | 40.0% | 2.2 | 40.0% | 0 | 0.0% | 0.0 | 0.0% |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 1 | 20.0% | 1.1 | 20.0% | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 5 | 100.0% | 5.5 | 100.0% | 1 | 100.0% | 1.1 | 100.0% |

^{*} Harvest in unknown months is not included in the sample harvest, but is included in the community estimate column.

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION, HARBOR SEAL, AND SPOTTED SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | HARBOR SEAL SPOTTED S | | | | | | D SE | 4L | |
|-------------|----------------|-------------|-------------|-----------------------|----------------|---------|-------------|--|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total | | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Yea</u> | <u>r Harve</u> | st Lost | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 0.0 | 0.0 | 0.0 | 199 | 2 29.2 | 3.8 | 32.9 | | 1992 | 49.6 | 3.8 | 53.3 |
| 1993 | 0.0 | 0.0 | 0.0 | 199 | 3 18.0 | 4.2 | 22.2 | | 1993 | 26.1 | 0.0 | 26.1 |
| 1994 | 0.0 | 0.0 | 0.0 | 199 | 4 16.2 | 0.0 | 16.2 | | 1994 | 35.2 | 3.0 | 38.2 |
| 1995 | 0.0 | 0.0 | 0.0 | 199 | 5 13.3 | 0.0 | 13.3 | | 1995 | 7.5 | 7.5 | 15.0 |
| 1996 | 0.0 | 0.0 | 0.0 | 199 | 6 0.0 | 0.0 | 0.0 | | 1996 | 40.6 | 1.0 | 41.6 |
| 1997 | 0.0 | 0.0 | 0.0 | 199 | 7 1.2 | 0.0 | 1.2 | | 1997 | 18.0 | 0.0 | 18.0 |
| 1998 | 0.0 | 0.0 | 0.0 | 199 | 8 8.5 | 0.0 | 8.5 | | 1998 | 12.2 | 1.2 | 13.4 |
| 2000 | 0.0 | 0.0 | 0.0 | 200 | 0.0 | 0.0 | 0.0 | | 2000 | 11.9 | 3.6 | 15.5 |
| 2001 | 0.0 | 0.0 | 0.0 | 200 | 1 0.0 | 0.0 | 0.0 | | 2001 | 6.1 | 3.6 | 9.7 |
| 2002 | 0.0 | 0.0 | 0.0 | 200 | 2 0.0 | 0.0 | 0.0 | | 2002 | 7.7 | 0.0 | 7.7 |
| 2003 | 0.0 | 0.0 | 0.0 | 200 | 3 0.0 | 0.0 | 0.0 | | 2003 | 4.1 | 0.0 | 4.1 |
| 2004 | 0.0 | 0.0 | 0.0 | 200 | 4 0.0 | 0.0 | 0.0 | | 2004 | 0.0 | 0.0 | 0.0 |
| 2005 | 0.0 | 0.0 | 0.0 | 200 | 5 1.3 | 0.0 | 1.3 | | 2005 | 22.5 | 3.8 | 26.2 |
| 2006 | 0.0 | 0.0 | 0.0 | 200 | 6 0.0 | 1.0 | 1.0 | | 2006 | 15.2 | 0.0 | 15.2 |
| 2007 | 0.0 | 0.0 | 0.0 | 200 | 7 0.0 | 1.0 | 1.0 | | 2007 | 15.2 | 0.0 | 15.2 |
| 2008 | 0.0 | 0.0 | 0.0 | 200 | 8 5.5 | 0.0 | 5.5 | | 2008 | 1.1 | 1.1 | 2.2 |

Table 61. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Manokotak, 2008

| SAMPLING DESI | GN: | <u>Active</u> | <u>Other</u> | <u>Total</u> | |
|----------------|---------------------------------|---------------|--------------|--------------|--|
| TWO-STRATA | Total Native Households | 26 | 71 | 97 | |
| | Surveyed Households | 25 | 50 | 75 | |
| | Sampling Fraction | 96.2% | 70.4% | 77.3% | |
| | Sample Household Members | 115 | 203 | 318 | |
| | Estimated Household Members | 119.6 | 288.3 | 407.9 | |
| 2000 U.S. Cens | sus Estimated Native Populatior | | | 378 | |

HARVEST AND USE INFORMATION

| Percentage of Native Ho | ouser. | iolds: | Estimated Community Harvest | | | |
|-------------------------|-------------|-----------------|------------------------------|-------------|-------------|-------------|
| | Sea | Harbor Seal and | and Take (Expanded): | Sea | Harbor | Spotted |
| | <u>Lion</u> | Spotted Seal | | <u>Lion</u> | <u>Seal</u> | <u>Seal</u> |
| Used | 0.0% | 58.8% | Total Number Harvested | 0.0 | 9.2 | 16.6 |
| Hunted | 0.0% | 22.8% | Total Number Struck and Lost | 0.0 | 1.4 | 7.4 |
| Harvested | 0.0% | 13.1% | Total Number Taken | 0.0 | 10.6 | 24.0 |
| Received | 0.0% | 52.3% | | | | |
| Gave Away | 0.0% | 26.1% | Number Harvested Per Capita | 0.00 | 0.02 | 0.04 |

| SEA LION H | <i>HARVE</i> | ST BY | / MON | TH | | | | | | | | Į | Jnknown | |
|----------------|--------------|---------|----------|---------|----------|---------|-------|--------|---------|-------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | VEST AND | TAKE B | Y SAMPLE | ED HOUS | EHOLDS | (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | IARVES | TANDT | AKE BY | COMM | IUNITY (| EXPANI | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON. | ALLY AI | DJUSTE | D HAR\ | /EST AN | D TAKE | BY CO | имиміт | Y (EXPA | NDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

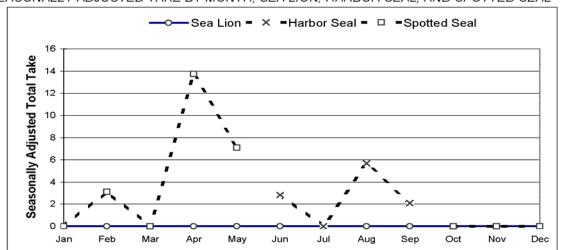
| HARBOR | SEAL A | ND SF | POTTE | D SEA | AL HAF | RVEST | BYM | ONTH | | · | | | | |
|----------------|--------|---------|-----------|--------|--------|--------|---------|--------|---------|--------|-----------|--------|---------|--------|
| 1 [| | | otted Sea | | | | Harbor | | | | otted Sea | | Jnknown | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED | HARVES | T AND T | TAKE BY | SAMP | LED HO | USEHO | LDS (UN | IEXPAN | DED) | | | | | |
| Harvest | 0 | 2 | 0 | 6 | 5 | 1 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 20 |
| Struck & Lost | 0 | 1 | 0 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Total Take | 0 | 3 | 0 | 11 | 5 | 2 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 27 |
| ESTIMATED | HARVES | T AND | TAKE B | Y COMN | MUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 0.0 | 2.1 | 0.0 | 7.4 | 7.1 | 1.4 | 0.0 | 5.7 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 25.7 |
| Struck & Lost | 0.0 | 1.0 | 0.0 | 6.4 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.0 |
| Total Take | 0.0 | 3.1 | 0.0 | 13.8 | 7.1 | 2.8 | 0.0 | 5.7 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 34.7 |
| ESTIMATED | SEASON | ALLY A | DJUSTE | D HAR | VEST A | ND TAK | E BY CC | ммии | TY (EXF | PANDED |)) | | | |
| Harvest | 0.0 | 2.1 | 0.0 | 7.4 | 7.1 | 1.4 | 0.0 | 5.7 | 2.1 | 0.0 | 0.0 | 0.0 | | 25.7 |
| Struck & Lost | 0.0 | 1.0 | 0.0 | 6.4 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 8.8 |
| Total Take | 0.0 | 3.1 | 0.0 | 13.8 | 7.1 | 2.8 | 0.0 | 5.7 | 2.1 | 0.0 | 0.0 | 0.0 | | 34.6 |
| Total Take (%) | 0.0% | 9.0% | 0.0% | 39.8% | 20.5% | 8.2% | 0.0% | 16.4% | 6.0% | 0.0% | 0.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 3.1 | 3.1 | 16.9 | 24.0 | 26.8 | 26.8 | 32.5 | 34.6 | 34.6 | 34.6 | 34.6 | | |
| Cum. Take (%) | 0.0% | 9.0% | 9.0% | 48.8% | 69.3% | 77.6% | 77.6% | 94.0% | 100.0% | 100.0% | 100.0% | 100.0% | | |

Table 61. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Manokotak, 2008

| | | Sea L | | | | Harbo | r Seal | | | Spotte | d Seal | |
|----------------------|---------|---------------|--------|----------------|---------------|----------|----------------|----------|-------------|----------|---------------|-----------|
| | Reporte | Reported by (| | Community Est. | | ed by | Community Est. | | Reported by | | Commur | nity Est. |
| | Samp | Sample | | (Expanded) | | Sample* | | nded) | Sample* | | (Expar | nded) |
| | Number | <u>%</u> | Number | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | Number | <u>%</u> | <u>Number</u> | <u>%</u> |
| Adult Male | 0 | | 0.0 | | 2 | 28.6% | 2.1 | 22.7% | 2 | 15.4% | 2.5 | 14.9% |
| Adult Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 1 | 7.7% | 1.4 | 8.6% |
| Adult Unknown Sex | 0 | | 0.0 | | 4 | 57.1% | 5.7 | 61.9% | 2 | 15.4% | 2.8 | 17.1% |
| Juvenile Male | 0 | | 0.0 | | 1 | 14.3% | 1.4 | 15.5% | 2 | 15.4% | 2.1 | 12.6% |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 1 | 7.7% | 1.0 | 6.3% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 4 | 30.8% | 5.7 | 34.3% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 1 | 7.7% | 1.0 | 6.3% |
| Female Unknown Age | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Total | 0 | | 0.0 | | 7 | 100.0% | 9.2 | 100.0% | 13 | 100.0% | 16.6 | 100.0% |

^{*} Harvest in unknown months is not included in the sample harvest, but is included in the community estimate column.

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION, HARBOR SEAL, AND SPOTTED SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | Н | ARBO | R SEA | L | S | POTTE | D SEA | AL |
|-------------|----------------|-------------|-------------|------------|-----------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | | Struck/ | Total | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Yea</u> | <u>ır</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 3.9 | 0.0 | 3.9 | 199 | 2 | 4.9 | 3.8 | 8.7 | 1992 | 25.1 | 1.0 | 26.1 |
| 1993 | 0.0 | 0.0 | 0.0 | 199 | 3 | 3.2 | 0.0 | 3.2 | 1993 | 7.4 | 0.0 | 7.4 |
| 1994 | 0.0 | 0.0 | 0.0 | 199 | 4 | 0.0 | 0.0 | 0.0 | 1994 | 13.7 | 0.0 | 13.7 |
| 1995 | 0.0 | 0.0 | 0.0 | 199 | 95 | 9.3 | 2.4 | 11.7 | 1995 | 22.9 | 3.6 | 26.5 |
| 1996 | 0.0 | 0.0 | 0.0 | 199 | 6 | 2.4 | 3.6 | 6.0 | 1996 | 31.5 | 8.4 | 39.9 |
| 1997 | 0.0 | 0.0 | 0.0 | 199 | 7 | 0.0 | 0.0 | 0.0 | 1997 | 19.7 | 7.2 | 26.9 |
| 1998 | 0.0 | 0.0 | 0.0 | 199 | 8 | 4.0 | 0.0 | 4.0 | 1998 | 4.2 | 1.0 | 5.2 |
| 2000 | 0.0 | 0.0 | 0.0 | 200 | 00 | 1.2 | 0.0 | 1.2 | 2000 | 23.0 | 4.7 | 27.7 |
| 2001 | 0.0 | 0.0 | 0.0 | 200 |)1 | 3.5 | 0.0 | 3.5 | 2001 | 8.3 | 1.2 | 9.4 |
| 2002 | 0.0 | 0.0 | 0.0 | 200 | 2 | 0.0 | 0.0 | 0.0 | 2002 | 0.0 | 0.0 | 0.0 |
| 2003 | 0.0 | 0.0 | 0.0 | 200 | 3 | 2.2 | 0.0 | 2.2 | 2003 | 5.5 | 1.1 | 6.5 |
| 2004 | 0.0 | 0.0 | 0.0 | 200 |)4 | 4.0 | 0.0 | 4.0 | 2004 | 27.1 | 29.6 | 56.7 |
| 2005 | 0.0 | 0.0 | 0.0 | 200 |)5 | 6.6 | 8.9 | 15.5 | 2005 | 45.9 | 8.9 | 54.8 |
| 2006 | 0.0 | 0.0 | 0.0 | 200 | 6 | 6.6 | 8.9 | 15.5 | 2006 | 45.9 | 8.9 | 54.8 |
| 2007 | 0.0 | 0.0 | 0.0 | 200 |)7 | 0.0 | 0.0 | 0.0 | 2007 | 18.3 | 2.6 | 20.8 |
| 2008 | 0.0 | 0.0 | 0.0 | 200 | 8 | 9.2 | 1.4 | 10.6 | 2008 | 16.6 | 7.4 | 24.0 |

| Table 62. | SEA LION. | SPOTTED SEA | L, AND HARBOR S | SEAL HARVEST: | Togiak, 2008 |
|-----------|-----------|-------------|-----------------|---------------|--------------|
| | | | | | |

| SAMPLING DESIGN: | | | <u>Active</u> | <u>Other</u> | | Γota | <u>l</u> | |
|----------------------|-------------|-----------------------|---------------|-------------------|----------|------|-------------|-------------|
| TWO-STRATA | Tota | al Native Households | 28 | 140 | | 168 | 3 | |
| | S | Surveyed Households | 21 | 118 | | 139 | 9 | |
| | | Sampling Fraction | 75.0% | 84.3% | 82 | 2.7% | , 0 | |
| S | ample | Household Members | 106 | 469 | | 575 | 5 | |
| Est | mated | Household Members | 141.3 | 556.4 | 6 | 97.8 | 3 | |
| 2000 U.S. Census | Estima | ted Native Population | | | | 750 |) | |
| HARVEST AND USE | INFOF | MATION | | | | | | |
| Percentage of Native | Housel | nolds: | Estimated Co | ommunity Harve | st | | | |
| | Sea | Harbor Seal and | and Ta | ake (Expanded): | 8 | Sea | Harbor | Spotted |
| | <u>Lion</u> | Spotted Seal | | | <u>L</u> | ion | <u>Seal</u> | <u>Seal</u> |
| Use | d 0.0% | 70.1% | Т | otal Number Harve | sted (| 0.0 | 46.0 | 167.7 |

| 0000 | 0.070 | 7 0. 1 70 | Total Hallibol Hallibototo | 0.0 | 70.0 | 101.1 |
|-----------|-------|-----------|------------------------------|------|------|-------|
| Hunted | 0.0% | 36.6% | Total Number Struck and Lost | 0.0 | 14.1 | 42.2 |
| Harvested | 0.0% | 33.7% | Total Number Taken | 0.0 | 60.0 | 209.9 |
| Received | 0.0% | 46.3% | | | | |
| Gave Away | 0.0% | 37.9% | Number Harvested Per Capita | 0.00 | 0.06 | 0.22 |

| SEA LION F | HARVE | ST BY | MON' | TΗ | | | | | | | | Į | Jnknown | |
|----------------|----------|---------|----------|--------|----------|---------|-------|-------|---------|--------|-----|-----|---------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HAR | /EST AND | TAKE B | Y SAMPLE | D HOUS | EHOLDS (| (UNEXPA | NDED) | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ARVES | T AND T | AKE BY | СОММ | UNITY (| EXPANI | DED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | DJUSTE | O HARV | EST AN | D TAKE | BY CO | ММИМІ | ΓΥ (ΕΧΡ | ANDED) | l | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

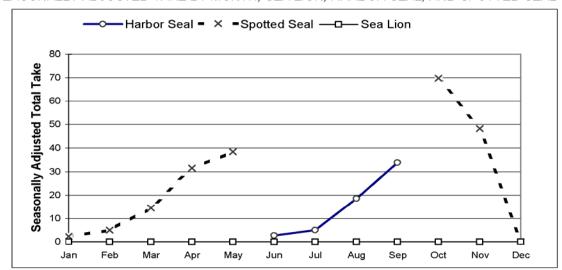
| HARBOR | SEAL A | ND SF | POTTE | D SEA | AL HAI | RVEST | BYM | ONTH | | | | | | |
|----------------|--------|---------|-----------|--------|---------|--------|---------|--------|----------|--------|-----------|--------|---------|--------|
| 1 [| | | otted Sea | | | | Harbor | | | | otted Sea | | Jnknown | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED | HARVES | T AND T | AKE BY | SAMP | LED HC | USEHO | LDS (UN | NEXPAN | IDED) | | | | | |
| Harvest | 2 | 3 | 11 | 19 | 22 | 1 | 3 | 13 | 20 | 45 | 35 | 0 | 0 | 174 |
| Struck & Lost | 0 | 1 | 1 | 7 | 9 | 1 | 1 | 2 | 7 | 12 | 4 | 0 | 0 | 47 |
| Total Take | 2 | 4 | 12 | 26 | 31 | 2 | 4 | 15 | 27 | 57 | 39 | 0 | 0 | 221 |
| ESTIMATED | HARVES | T AND | TAKE B | Y COMI | /JUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 2.4 | 3.7 | 13.2 | 23.1 | 27.1 | 1.3 | 3.7 | 15.9 | 25.1 | 55.3 | 42.8 | 0.0 | 0.0 | 213.6 |
| Struck & Lost | 0.0 | 1.3 | 1.3 | 8.5 | 11.3 | 1.3 | 1.3 | 2.7 | 8.7 | 14.5 | 5.3 | 0.0 | 0.0 | 58.7 |
| Total Take | 2.4 | 5.0 | 14.5 | 31.6 | 38.4 | 2.7 | 5.0 | 18.5 | 33.8 | 69.8 | 48.2 | 0.0 | 0.0 | 272.3 |
| ESTIMATED | SEASON | IALLY A | DJUSTE | D HAR | VEST A | ND TAK | E BY CO | оммии | ITY (EXI | PANDEI |) | | | |
| Harvest | 2.4 | 3.7 | 13.2 | 23.1 | 27.1 | 1.3 | 3.7 | 15.9 | 25.1 | 55.3 | 42.8 | 0.0 | | 213.6 |
| Struck & Lost | 0.0 | 1.3 | 1.3 | 8.5 | 11.3 | 1.3 | 1.3 | 2.7 | 8.7 | 14.5 | 5.3 | 0.0 | | 56.3 |
| Total Take | 2.4 | 5.0 | 14.5 | 31.6 | 38.4 | 2.7 | 5.0 | 18.5 | 33.8 | 69.8 | 48.2 | 0.0 | | 270.0 |
| Total Take (%) | 0.9% | 1.9% | 5.4% | 11.7% | 14.2% | 1.0% | 1.9% | 6.9% | 12.5% | 25.9% | 17.8% | 0.0% | | 100.0% |
| Cum. Take | 2.4 | 7.4 | 21.9 | 53.5 | 91.9 | 94.6 | 99.6 | 118.2 | 152.0 | 221.8 | 270.0 | 270.0 | | |
| Cum. Take (%) | 0.9% | 2.7% | 8.1% | 19.8% | 34.0% | 35.0% | 36.9% | 43.8% | 56.3% | 82.2% | 100.0% | 100.0% | | |

Table 62. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Togiak, 2008

| | | Sea L | | | | Harbo | r Seal | | | | | |
|----------------------|---------------|----------|---------------|----------------|---------------|-------------|---------------|------------|-------------|----------|---------------|-----------|
| | Reporte | d by | Commun | Community Est. | | Reported by | | nity Est. | Reported by | | Commur | nity Est. |
| | Samp | Sample | | (Expanded) | | Sample* | | (Expanded) | | Sample* | | nded) |
| | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | Number | <u>%</u> | <u>Number</u> | <u>%</u> |
| Adult Male | 0 | | 0.0 | | 6 | 16.2% | 7.3 | 15.8% | 45 | 32.8% | 55.2 | 32.9% |
| Adult Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 17 | 12.4% | 20.5 | 12.2% |
| Adult Unknown Sex | 0 | | 0.0 | | 8 | 21.6% | 9.9 | 21.6% | 24 | 17.5% | 28.9 | 17.2% |
| Juvenile Male | 0 | | 0.0 | | 3 | 8.1% | 3.9 | 8.4% | 7 | 5.1% | 8.6 | 5.1% |
| Juvenile Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 2 | 1.5% | 2.7 | 1.6% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 8 | 21.6% | 10.7 | 23.2% | 22 | 16.1% | 27.4 | 16.4% |
| Pup Male | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 1 | 0.7% | 1.3 | 0.8% |
| Pup Female | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 4 | 2.9% | 5.3 | 3.2% |
| Male Unknown Age | 0 | | 0.0 | | 3 | 8.1% | 3.6 | 7.7% | 2 | 1.5% | 2.4 | 1.4% |
| Female Unknown Age | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 9 | 24.3% | 10.7 | 23.2% | 13 | 9.5% | 15.4 | 9.2% |
| Total | 0 | | 0.0 | | 37 | 100.0% | 46.0 | 100.0% | 137 | 100.0% | 167.7 | 100.0% |

^{*} Harvest in unknown months is not included in the sample harvest, but is included in the community estimate column.

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION, HARBOR SEAL, AND SPOTTED SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | H | IARBO | R SEA | L | | s | POTTE | D SEA | AL |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|---|-------------|----------------|-------------|-------------|
| | | Struck/ | Total | | | Struck/ | Total | - | | | Struck/ | Total |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> |
| 1992 | 3.9 | 0.0 | 3.9 | 1992 | 24.3 | 2.0 | 26.3 | | 1992 | 250.2 | 53.8 | 304.0 |
| 1993 | 3.3 | 3.3 | 6.5 | 1993 | 24.9 | 15.8 | 40.7 | | 1993 | 174.7 | 49.1 | 223.8 |
| 1994 | 1.2 | 0.0 | 1.2 | 1994 | 0.0 | 0.0 | 0.0 | | 1994 | 154.2 | 39.9 | 194.1 |
| 1995 | 0.0 | 0.0 | 0.0 | 1995 | 3.3 | 0.0 | 3.3 | | 1995 | 111.5 | 4.4 | 115.9 |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 3.9 | 0.0 | 3.9 | | 1996 | 101.9 | 7.8 | 109.7 |
| 1997 | 3.6 | 0.0 | 3.6 | 1997 | 6.7 | 0.0 | 6.7 | | 1997 | 79.2 | 7.1 | 86.4 |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 14.1 | 1.4 | 15.5 | | 1998 | 105.0 | 15.3 | 120.4 |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 5.1 | 1.1 | 6.3 | | 2000 | 147.0 | 26.7 | 173.6 |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 5.3 | 0.0 | 5.3 | | 2001 | 60.8 | 4.5 | 65.3 |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 13.9 | 3.6 | 17.4 | | 2002 | 79.2 | 18.6 | 97.9 |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 22.0 | 0.0 | 22.0 | | 2003 | 32.8 | 8.9 | 41.7 |
| 2004 | 0.0 | 0.0 | 0.0 | 2004 | 6.9 | 9.7 | 16.6 | | 2004 | 63.8 | 0.0 | 63.8 |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 10.8 | 0.0 | 10.8 | | 2005 | 82.0 | 10.9 | 92.9 |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 11.5 | 0.0 | 11.5 | | 2006 | 50.9 | 7.4 | 58.3 |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 7.8 | 2.2 | 10.0 | | 2007 | 63.3 | 7.8 | 71.1 |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 46.0 | 14.1 | 60.0 | | 2008 | 167.7 | 42.2 | 209.9 |

| <u>Total</u> |
|--------------|
| 22 |
| 20 |
| 90.9% |
| 58 |
| 63.8 |
| 65 |
| |

| HARVEST AND USE IN | IFOR. | MATION | | | | | |
|------------------------|-------------|-----------------|------------------------------|-------------|-------------|-------------|--|
| Percentage of Sample F | House | holds: | Estimated Community Harvest | | | | |
| | Sea | Harbor Seal and | and Take (Expanded): | Sea | Harbor | Spotted | |
| | <u>Lion</u> | Spotted Seal | | <u>Lion</u> | <u>Seal</u> | <u>Seal</u> | |
| Used | 0.0% | 60.0% | Total Number Harvested | 0.0 | 0.0 | 6.6 | |
| Hunted | 0.0% | 15.0% | Total Number Struck and Lost | 0.0 | 0.0 | 4.4 | |
| Harvested | 0.0% | 15.0% | Total Number Taken | 0.0 | 0.0 | 11 0 | |

 Harvested Received O.0%
 15.0%
 Total Number Taken
 0.0
 0.0
 11.0

 Gave Away
 0.0%
 15.0%
 Number Harvested Per Capita
 0.00
 0.00
 0.10

| SEA LION HARVEST BY MONTH Unknown | | | | | | | | | | | | | | |
|--|--|--------|--------|--------|--------|--------|-------|--------|---------|--------|-----|-----|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED) | | | | | | | | | | | | | | |
| Harvest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Struck & Lost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Take | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESTIMATED H | ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED) | | | | | | | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| ESTIMATED S | EASON | ALLY A | DJUSTE | D HARV | EST AN | D TAKE | BY CO | ММИМІТ | TY (EXP | ANDED) | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0.0 |
| Total Take (%) | | | | | | | | | | | | | | |
| Cum. Take | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Cum. Take (%) | | | | | | | | | | | | | | |

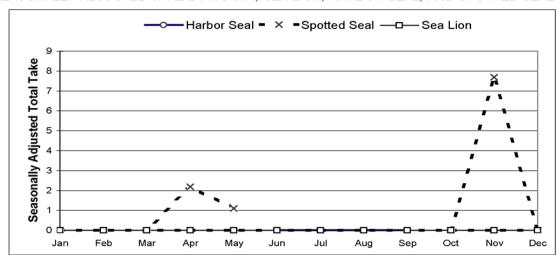
| HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH | | | | | | | | | | | | | | |
|--|--------|---------|------------|-------|---------|--------|---------|-------------|----------|--------------|------------|--------|---------|--------|
| l [| | | otted Seal | | | | | Harbor Seal | | Spotted Seal | | | Unknown | |
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Month | Total |
| REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED) | | | | | | | | | | | | | | |
| Harvest | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 6 |
| Struck & Lost | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 4 |
| Total Take | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 10 |
| ESTIMATED | HARVES | T AND | TAKE BY | COM | /JUNITY | (EXPAN | IDED) | | | | | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 6.6 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 | 4.4 |
| Total Take | 0.0 | 0.0 | 0.0 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 0.0 | 0.0 | 11.0 |
| ESTIMATED | SEASON | IALLY A | DJUSTE | D HAR | VEST A | ND TAK | E BY CO | оммии | ITY (EXI | PANDE | D) | | | |
| Harvest | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 | 0.0 | | 6.6 |
| Struck & Lost | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | | 4.4 |
| Total Take | 0.0 | 0.0 | 0.0 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.7 | 0.0 | | 11.0 |
| Total Take (%) | 0.0% | 0.0% | 0.0% | 20.0% | 10.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 70.0% | 0.0% | | 100.0% |
| Cum. Take | 0.0 | 0.0 | 0.0 | 2.2 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 11.0 | 11.0 | | |
| Cum. Take (%) | 0.0% | 0.0% | 0.0% | 20.0% | 30.0% | 30.0% | 30.0% | 30.0% | 30.0% | 30.0% | 100.0% | 100.0% | | |

Table 63. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Twin Hills, 2008

| | | Sea | Lion | | | Harbo | r Seal | | Spotted Seal | | | |
|----------------------|----------------------------|----------|---------------|----------|---------------|----------|---------------|----------------|---------------|-------------|---------------|-----------|
| | Reported by Community Est. | | | | Reporte | d by | Commun | Community Est. | | Reported by | | nity Est. |
| | Sample | | (Expanded) | | Sample* | | (Expanded) | | Sample* | | (Expar | nded) |
| | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> | <u>Number</u> | <u>%</u> |
| Adult Male | - | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Adult Female | - | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Adult Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Male | - | | 0.0 | | 0 | | 0.0 | | 1 | 16.7% | 1.1 | 16.7% |
| Juvenile Female | 0 | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Juvenile Unknown Sex | 0 | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Male | | | 0.0 | | 0 | | 0.0 | | 1 | 16.7% | 1.1 | 16.7% |
| Pup Female | | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Pup Unknown Sex | | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Male Unknown Age | | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Female Unknown Age | | | 0.0 | | 0 | | 0.0 | | 0 | 0.0% | 0.0 | 0.0% |
| Unknown Sex and Age | 0 | | 0.0 | | 0 | | 0.0 | | 4 | 66.7% | 4.4 | 66.7% |
| Total | 0 | | 0.0 | - | 0 | | 0.0 | - | 6 | 100.0% | 6.6 | 100.0% |

^{*} Harvest in unknown months is not included in the sample harvest, but is included in the community estimate column.

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION, HARBOR SEAL, AND SPOTTED SEAL



ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR

| | SEA | LION | | | HARBOR SEAL | | | | | SPOTTED SEAL | | | | | |
|-------------|----------------|-------------|-------------|-------------|----------------|-------------|-------------|--|-------------|----------------|-------------|-------------|--|--|--|
| | | Struck/ | Total | | | Struck/ | Total | | | | Struck/ | Total | | | |
| <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | <u>Year</u> | <u>Harvest</u> | <u>Lost</u> | <u>Take</u> | | | |
| 1992 | | | | 1992 | | | | | 1992 | | | | | | |
| 1993 | | | | 1993 | | | | | 1993 | | | | | | |
| 1994 | | | | 1994 | | | | | 1994 | | | | | | |
| 1995 | | | | 1995 | | | | | 1995 | | | | | | |
| 1996 | 0.0 | 0.0 | 0.0 | 1996 | 23.3 | 6.5 | 29.8 | | 1996 | 3.9 | 3.9 | 7.8 | | | |
| 1997 | 0.0 | 0.0 | 0.0 | 1997 | 8.4 | 2.1 | 10.5 | | 1997 | 2.1 | 1.1 | 3.2 | | | |
| 1998 | 0.0 | 0.0 | 0.0 | 1998 | 2.2 | 2.2 | 4.4 | | 1998 | 15.5 | 6.6 | 22.1 | | | |
| 2000 | 0.0 | 0.0 | 0.0 | 2000 | 1.6 | 0.0 | 1.6 | | 2000 | 6.6 | 1.6 | 8.2 | | | |
| 2001 | 0.0 | 0.0 | 0.0 | 2001 | 0.0 | 0.0 | 0.0 | | 2001 | 2.5 | 0.0 | 2.5 | | | |
| 2002 | 0.0 | 0.0 | 0.0 | 2002 | 1.7 | 1.7 | 3.3 | | 2002 | 10.0 | 1.7 | 11.7 | | | |
| 2003 | 0.0 | 0.0 | 0.0 | 2003 | 5.6 | 1.4 | 7.0 | | 2003 | 4.2 | 0.0 | 4.2 | | | |
| 2004 | 1.2 | 0.0 | 1.2 | 2004 | 6.8 | 1.9 | 8.8 | | 2004 | 1.4 | 0.4 | 1.8 | | | |
| 2005 | 0.0 | 0.0 | 0.0 | 2005 | 2.5 | 0.0 | 2.5 | | 2005 | 4.9 | 0.0 | 4.9 | | | |
| 2006 | 0.0 | 0.0 | 0.0 | 2006 | 1.0 | 0.0 | 1.0 | | 2006 | 4.0 | 4.0 | 8.0 | | | |
| 2007 | 0.0 | 0.0 | 0.0 | 2007 | 1.0 | 2.0 | 3.0 | | 2007 | 2.0 | 2.0 | 4.0 | | | |
| 2008 | 0.0 | 0.0 | 0.0 | 2008 | 0.0 | 0.0 | 0.0 | | 2008 | 6.6 | 4.4 | 11.0 | | | |