The Subsistence Harvest of Harbor Seals and Sea Lions by Alaska Natives in 2004

Technical Paper No. 303

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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 2004, 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 Division of Subsistence, Alaska Department of Fish and Game in cooperation with the Alaska Native Harbor Seal Commission and the Aleut Marine Mammal Commission, under contract with the National Marine Fisheries Service of the National Oceanic and Atmospheric Administration. Information derives from systematic interviews with hunters and users of marine mammals in 1,209 households in 62 coastal communities within the geographic ranges of the two species. 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 2004, the estimated subsistence take of harbor seals by Alaska Natives was 1,822 seals, with a 95 percent confidence range of between 1,420 to 2,469 seals. Of the take, 14.0 percent (256 seals) were struck and lost and 86.0 percent (1,566 seals) were harvested. The 2004 take of harbor seals came from the following stocks: Southeast Alaska stock (845 seals), Gulf of Alaska stock (858 seals), and Bering Sea stock (119 seals). Harbor seals were taken in 51 of 62 surveyed communities. Hunters reported taking males over females by about 2.4 to 1 and adults (79.7 percent) over juveniles (17.9 percent) or pups (2.3 percent). The 2004 take of harbor seals (1,822 seals) was the 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), and 2,030 (2003). Reasons for declining harbor seal harvests are uncertain, but declining harvests are associated with fewer seal hunters statewide, particularly in the Southeast Region.

During 2004, the estimated subsistence take of sea lions by Alaska Natives was 216 sea lions, with a 95 percent confidence range of between 147 to 335 sea lions. Of the take, 28.4 percent (61.4 sea lions) were struck and lost and 71.6 percent (154.4 sea lions) were harvested. Sea lions were taken in 21 of 62 surveyed communities. Hunters reported taking males over females by about 1.8 to 1 and adults (57.7 percent) over juveniles (42.3 percent) and pups (none reported harvested). Sea lion takes sharply declined from 1992 to 1995 with takes leveling off between 1996 to 2003 – 549 (1992), 487 (1993), 416 (1994), 339 (1995), 186 (1996), 164 (1997), 178 (1998), 171 (2000), 198 (2001), 185 (2002), and 212 (2003). Declines in sea lion takes are associated with fewer hunters hunting 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 use 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 thirty-eight local researchers who conducted household interviews deserve to be recognized individually for their high level of interest and work. We look forward to working with many again in the near future as the project moves into its thirteenth year:

Michael Eluska, Akhiok
Antone Shelikoff, Akutan
Nina Tinker, Aleknagik and Dillingham
Harriet Silva, Angoon
Pete Kompkoff Jr., Chenega Bay
Amy Skonberg, Chignik Bay
Laura Stepanoff, Chignik Lagoon
Nailene Lind, Chignik Lake
Frederick Hamilton, Craig
Virgie Alto, Egegik
Diane Stickler, Haines
Harlena Warford, Hoonah
Henry Smith, Kake
Alicia Reft, Karluk
Nyna Fleury, Ketchikan and Saxman
Lef Kenezuroff, King Cove
Mary Brown, King Salmon, Naknek and South Naknek
James Rowan, Klawock
Larry Amox, Jr. Kodiak City
Marlene Aga, Larsen Bay
Rhonda Nick, Manokotak
Nick Tanape Sr., Nanwalek
Andrew R. Lestinkof Jr., Nikolski
Matilda Christiansen, Old Harbor
Victoria Cornwell, Ouzinkie
Andy Shangin, Perryville
Byron Lyons, Petersburg
Jerry Robart, Port Graham
Candace Nelson, Port Lions
Greta Kosbruk, Port Heiden and Pilot Point
Lila Sanders, Sand Point
Min Bartels, Sitka
Peggy Totemoff, Tatitlek
Elizabeth Myas, Togiak and Twin Hills
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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 2004. The report covers the twelveth year documenting subsistence takes of harbor seals and sea lions in Alaska. Subsistence takes have been documented from 1992 through 2004, with no surveys in 1999 (Wolfe and Mishler 1993, 1994, 1995, 1996, 1997, 1998; Wolfe and Hutchinson-Scarbrough 1999; Wolfe 2001; Wolfe, Fall, and Stanek 2002, 2003, 2004). The research for calendar year 2004 was conducted by the Division of Subsistence of the Alaska Department of Fish and Game, the Alaska Native Harbor Seal Commission, and the Aleut Marine Mammal Commission, under contract with the National Marine Fisheries Service of the National Oceanic and Atmospheric Administration. The research was conducted in cooperation with tribal governments in the study communities.

This report provides information on the subsistence takes of harbor seals and sea lions during 2004, 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 (Fig. 1, Table 2). Information was collected principally by local researchers trained in each community working within a network of local and regional researchers.

The geographic area covered by this report was defined as the Alaska coastal waters south of Cape Newenham, including the Pribilof Islands, which corresponds with the general distributions of harbor seals and sea lions in Alaska (Figs. 2 and 3, from Burns, Frost, and Lowry 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, since before

historic contact through to the present. 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. More occasional use of harbor seals is made by the Dena'ina of Cook Inlet. 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 more occasionally by Tlingit, Haida, Tsimshian, and Yup'ik groups. Subsistence products derived from harbor seals and sea lions by Alaska Natives include oil, meat, and skins, as described in 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 2004 and The Subsistence Take of Sea Lions in 2004) 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 2004 survey year, including summaries of harvest patterns since 1992. 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.

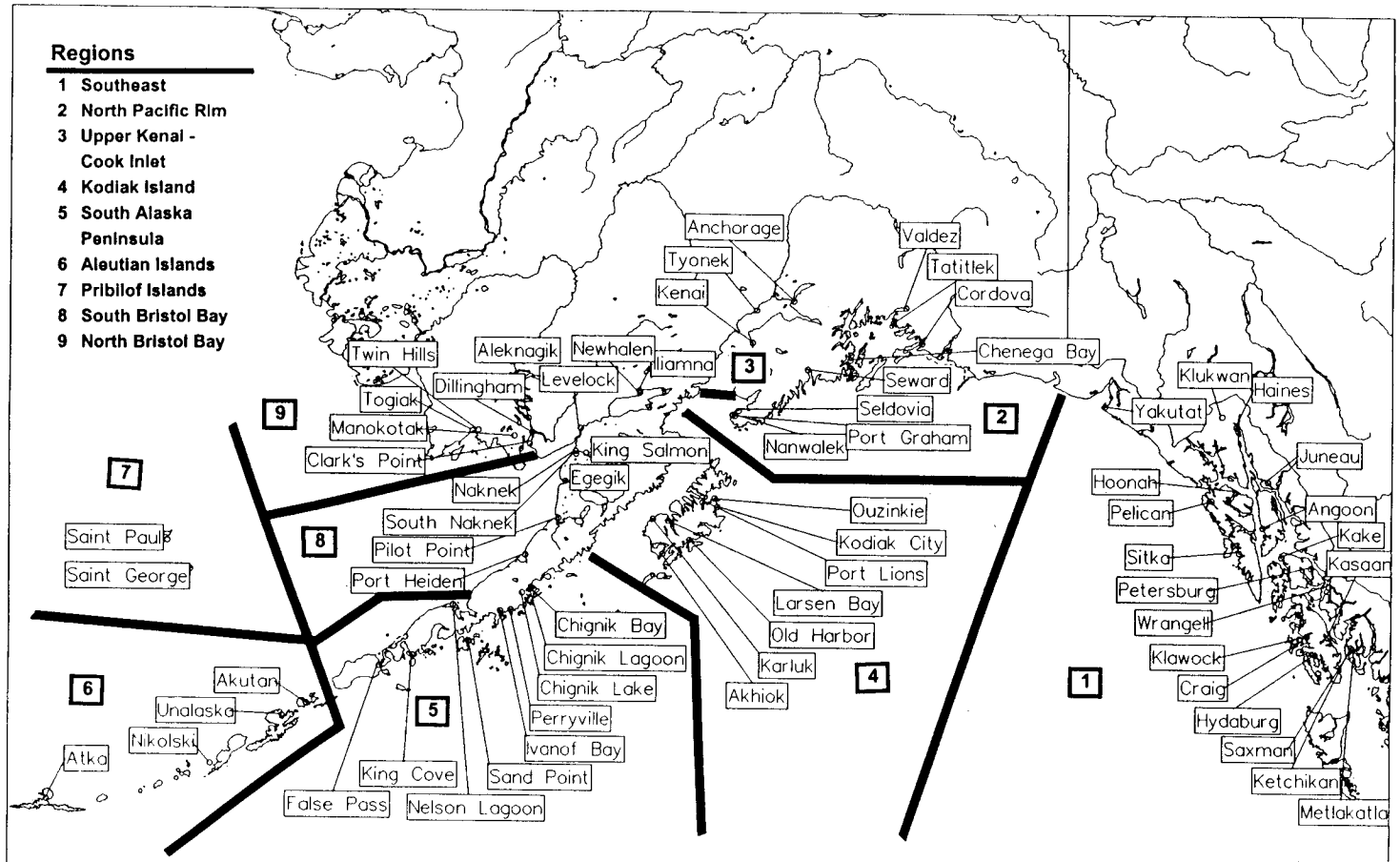


Fig. 1. Map of study area and regions

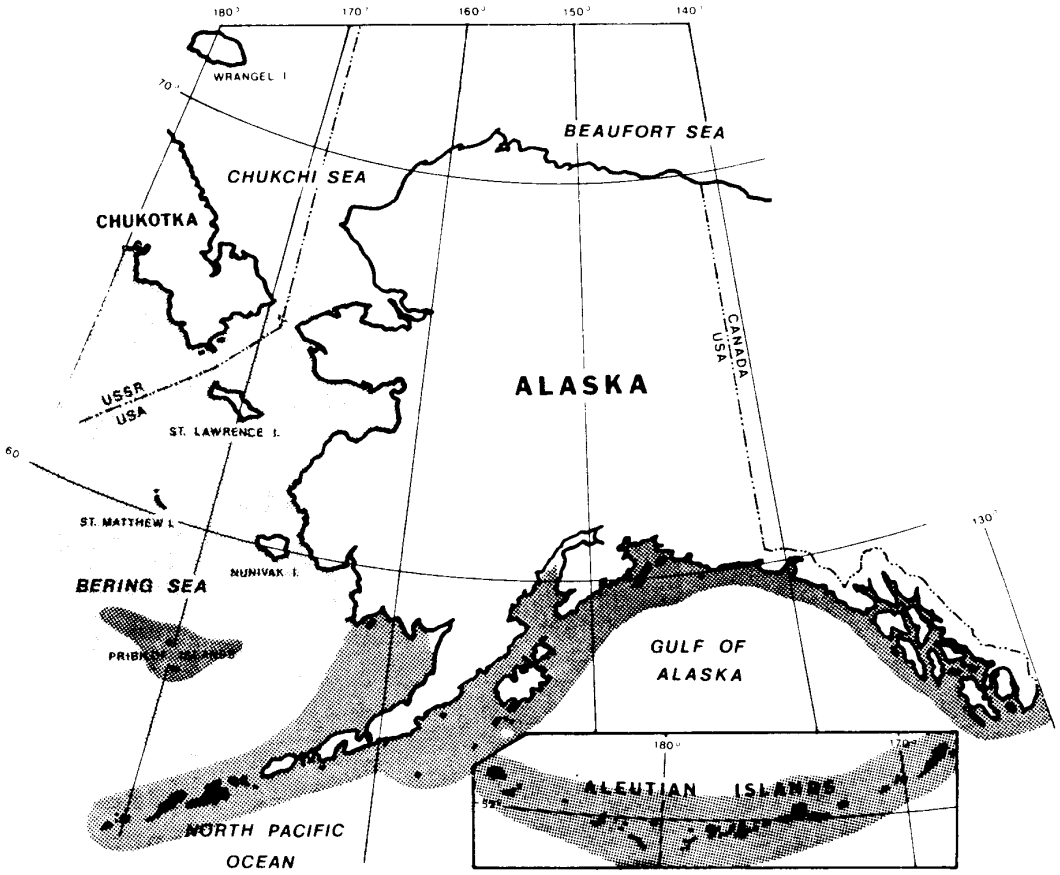


Fig. 2. General distribution of sea lions (*Eumetopias jubatus*) in Alaska. (Source: Burns, Frost, and Lowry 1985).

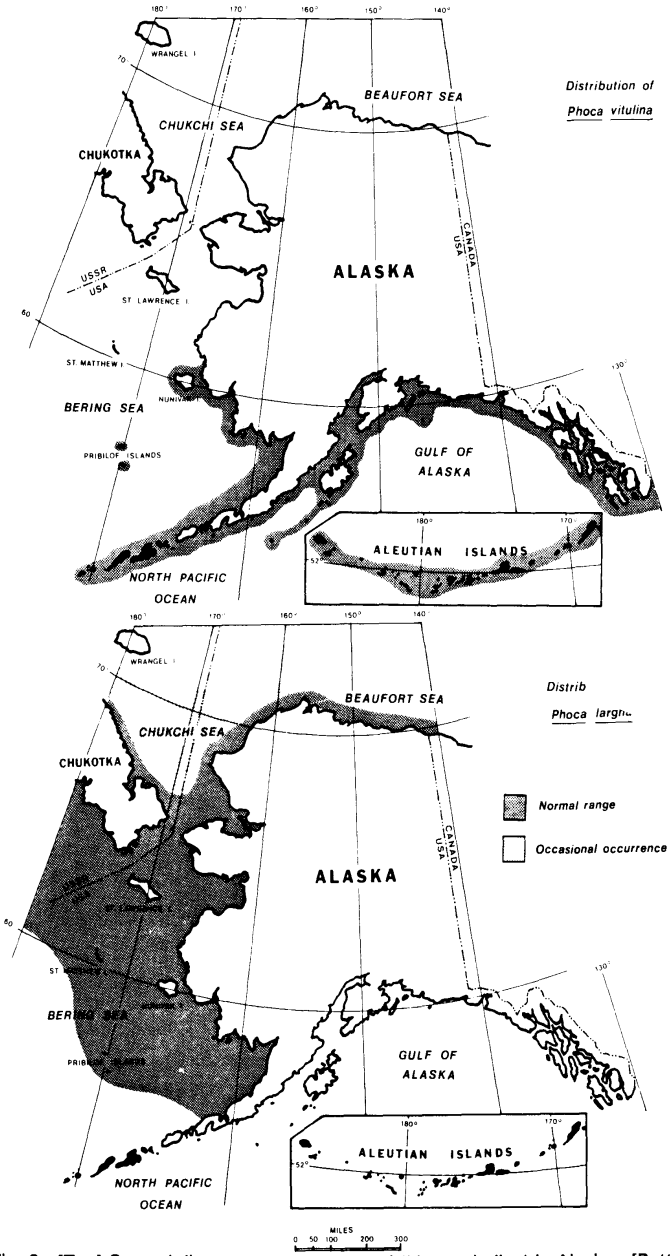


Fig. 3. [Top] General distribution of harbor seal (Phoca vitulina) in Alaska. [Bottom] General distribution of spotted seal (Phoca largha) in Alaska. (Source: Burns, Frost, and Lowry 1985)

METHODOLOGY

This report includes information on the subsistence takes of harbor seals and sea lions in 62 coastal communities (Table 2). Information for 61 communities was collected in this project through interviews with persons in 1,209 Alaska Native households. In addition, the report includes information about subsistence takes of sea lions by hunters in St. Paul collected through a separate project run by the Ecosystem Conservation Office of the Aleut Community of St. Paul (Zavadil et al. 2004; see also Lestenkof and Zavadil 2001; Lestenkof et al. 2002; and Zavadil et al. 2003). In the Division of Subsistence study, respondents were asked to recall information about their household's use of harbor seals and sea lions during the previous year. The survey instrument administered in household interviews was similar to one used in 1992-2003, 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 local researchers hired and trained as part of the project, augmented by regional researchers of the Alaska Native Harbor Seal Commission and the Division of Subsistence in select communities. A single survey was administered in January to March 2005 to cover the period from January through December 2004.

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 seals and sea lions management were contacted to obtain suggestions about project design, including the

Alaska Federation of Natives, the Aleutians East Borough, Aleutian-Pribilof Islands Association, Bristol Bay Native Association, Central Council of Tlingit and Haida Indian Tribes of Alaska, Cook Inlet Region, Inc., IPCoMM (meeting through RurAL CAP), 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 five years of the project, through a subcontract with the Division of Subsistence. Since 1997, formal technical oversight for the project has been provided by the Alaska Native Harbor Seal Commission (ANHSC).

During 2004, the ANHSC received funding directly from the National Marine Fisheries Service and entered into a cooperative agreement with the Division of Subsistence to jointly conduct the harvest assessment project. The ANHSC provided a project coordinator and an analyst for writing the final report. The ANHSC coordinated the research activities in the Prince William Sound, Cook Inlet, and Kodiak Island Borough communities. Under the cooperative agreement, the Division of Subsistence coordinated research activities in other regions and was responsible for data analysis.

The survey in the Aleutian Islands region was conducted in cooperation with the Aleut Marine Mammal Commission (AMMC). The AMMC represents ten Alaska Native tribes in nine communities of the lower Alaska Peninsula and Aleutian Islands. The AMMC assisted with introducing the project in its member communities, helped identify local research assistants, and reviewed the survey instrument and draft study findings.

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 above, at 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 the National Marine Fisheries Service. The methodologies and findings of the tribal project are described in Zavadil et al. 2004. Data from that program pertaining to

Table 1.
Community Organizations Contacted During the Project, 1992 - 2004

Community	Government/Organization
Adak	Aleut Marine Mammal Commission
	Aleut Corporation
Akhiok	Akhiok Tribal Council
	City of Akhiok
Akutan	Akutan Traditional Village Council
	City of Akutan
	Akutan Corporation
Aleknagik	Aleknagik Traditional Council
Anchorage	Cook Inlet Tribal Council
	Alaska Federation of Natives
Angoon	City of Angoon
	Angoon Community Association
Atka	Atka IRA Council
	City of Atka
Chenega Bay	Chenega IRA Council
Chignik Bay	Chignik Bay Traditional Village Council
Chignik Lagoon	Chignik Lagoon Traditional Village Council
Chignik Lake	Chignik Lake Traditional Village Council
Clark's Point	Clark's Point Village Council
Cordova	Traditional Village of Eyak
Craig	Shaan-Seet, Inc.
	City of Craig
	Craig Community Association
Dillingham	Curyung Tribal Council
Egegik	Egegik Traditional Council
False Pass	False Pas Tribal Council
	City of False Pass
Haines	Chilkoot Indian Association
Hoonah	Hoonah Indian Association
	Hoonah Traditional Council
Hydaburg	Haida Corporation
	Hydaburg Cooperative Association
	City of Hydaburg
Iliamna	Iliamna Village Council
Ivanof Bay	Ivanof Bay Traditional Village Council
Juneau	Tlingit and Haida Central Council
	Sealaska
	Auke Tribe Council
	Alaska Native Brotherhood/Sisterhood
	Douglas Indian Association
Kake	Organized Village of Kake
	City of Kake
Karluk	Karluk IRA Council
Kenai	Kenaitze Indian Tribe IRA
	Cook Inlet Region, Inc.
Ketchikan	Ketchikan Indian Community
King Cove	Agdaagux Tribe of King Cove
	Belkofsky Village Council
	City of King Cove
King Salmon	King Salmon Village Council
Klawock	Klawock Cooperative Association
	Klawock Heenya Corporation
Klukwan	Chilkat Indian Village
Kodiak City	Kodiak Tribal Council
	Kodiak Area Native Association

Community	Government/Organization
Larsen Bay	Larsen Bay Tribal Council
	City of Larsen Bay
Levelock	Levelock Village Council
Manokotak	Manokotak Village Council
Metlakatla	Council Annette Islands Reserve
	Metlakatla Indian Community
Naknek	Naknek Native Village Council
Nanwalek	Nanwalek Traditional Council
	English Bay Corporation
Nelson Lagoon	Nelson Lagoon Village Council
Newhalen	Newhalen Traditional Council
Nikolski	Nikolski IRA Council
	Chaluka Corporation
Old Harbor	Old Harbor Tribal Council
	City of Old Harbor
Ouzinkie	Ouzinkie Native Corporation
	Ouzinkie Tribal Council
	City of Ouzinkie
Pelican	Tlingit and Haida Indians of Pelican
	Pelican Community Council
	City of Pelican
Perryville	Perryville Traditional Village Council
Petersburg	Petersburg Indian Association
Pilot Point	Pilot Point Traditional Council
Port Graham	Port Graham Village Council
	Port Graham Corporation
Port Heiden	Port Heiden Native Council
Port Lions	Port Lions Tribal Council
	City of Port Lions
Saint George	Saint George Traditional IRA Council
	Saint George Tanaq Corporation
	City of Saint George
Saint Paul	Tribal Government of Saint Paul
	City of Saint Paul
Sand Point	Unga Tribal Council
	Qagan Tayagugin Tribe of Sand Point
	City of Sand Point
Saxman	Organized Village of Saxman
	City of Saxman
Seldovia	Seldovia Village Tribe
Seward	Qutekcak Native Tribe
Sitka	Sitka Tribe of Alaska
	Alaska Native Brotherhood
South Naknek	South Naknek Village Council
Tatitlek	Tatitlek IRA Council
Togiak	Togiak Traditional Council
Twin Hills	Twin Hills Village Council
Tyonek	Native Village of Tyonek
Unalaska	Qawalangin Tribal Council
Valdez	Valdez Native Association
Wrangell	Wrangell Cooperative Association
Yakutat	Yakutat Tlingit Tribe
	Yak-Tat Kwaan
	Alaska Native Brotherhood/
	Alaska Native Sisterhood

four years at St. Paul (2000-2003) are included in this report, based on published papers (see Lestenkof and Zavadil 2001; Lestenkof et al. 2002; and Zavadil et al. 2003).

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, regional Division of Subsistence researchers, and ANHSC staff was used to collect information on subsistence takes of sea lions and harbor seals during 2004. Newly-hired local researchers received in-person training from regional researchers or ANHSC staff, whereas 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

Table 2
Sampling Methodology By Community
Harbor Seal and Sea Lion Surveys, 2004

Region and Community	2000 U.S. Census Estimated Native Population	Type of Design	Identified Household Universe[1]	Surveyed Households	Percentage Households Surveyed
1. SOUTHEAST					
Angoon	494	Chain Referral	40	38	95.0%
Craig	432	Chain Referral	22	20	90.9%
Haines	335	Chain Referral	17	17	100.0%
Hoonah	597	Chain Referral	54	30	55.6%
** Hydaburg	342	Chain Referral	16	10	62.5%
Juneau	5,084	Chain Referral	34	15	44.1%
Kake	530	Chain Referral	40	37	92.5%
Ketchikan	1,802	Chain Referral	3	3	100.0%
Klawock	496	Chain Referral	33	26	78.8%
** Klukwan	123	Chain Referral	8	3	37.5%
** Pelican	42	Chain Referral	7	4	57.1%
Petersburg	388	Chain Referral	30	29	96.7%
Saxman	302	Chain Referral	15	3	20.0%
Sitka	2,178	Chain Referral	65	64	98.5%
Wrangell	550	Chain Referral	10	6	60.0%
Yakutat	375	Chain Referral	48	39	81.3%
Region Total	**14,070**		**442**	**344**	**77.8%**
2. NORTH PACIFIC RIM					
Chenega Bay	67	Census	19	18	94.7%
** Cordova	368	Chain Referral	15	11	73.3%
Nanwalek	165	Census	49	47	95.9%
Port Graham	151	Census	50	36	72.0%
Seldovia	66	Chain Referral	4	4	100.0%
Seward	592	Chain Referral	2	2	100.0%
Tatitlek	91	Chain Referral	19	19	100.0%
Valdez	410	Chain Referral	4	2	50.0%
Region Total	**1,910**		**162**	**139**	**85.8%**
3. UPPER KENAI-COOK INLET					
Anchorage	26,995	Chain Referral	29	13	44.8%
Homer	371	Chain Referral	13	7	53.8%
Kenai	2120	Chain Referral	3	1	33.3%
Tyonek	184	Chain Referral	2	2	100.0%
Region Total	**29,670**		**47**	**23**	**48.9%**
4. KODIAK ISLAND					
Akhiok	75	Census	14	10	71.4%
Karluk	26	Census	14	9	64.3%
Kodiak City	829	Chain Referral	15	10	66.7%
Larsen Bay	91	Census	35	28	80.0%
Old Harbor	203	Census	65	55	84.6%
Ouzinkie	197	Census	43	33	76.7%
Port Lions	163	Chain Referral	17	14	82.4%
Region Total	**1,584**		**203**	**159**	**78.3%**

[1] For Chain Referral communities, the "Identified Household Universe" is smaller than the total number of Native households.

Table 2 (Continued)
Sampling Methodology by Community,
Harbor Seal and Sea Lion Surveys, 2004

Region and Community	2000 U.S. Census Estimated Native Population	Type of Design	Identified Household Universe	Surveyed Households	Percentage Households Surveyed
5. SOUTH ALASKA PENINSULA					
Chignik Bay	48	Census	26	17	65.4%
Chignik Lagoon	85	Census	19	17	89.5%
Chignik Lake	127	Census	20	6	30.0%
** False Pass	42	Census	18	13	72.2%
King Cove	379	Chain Referral	17	10	58.8%
Perryville	105	Census	30	27	90.0%
Sand Point	421	Chain Referral	15	12	80.0%
Region Total	**1,207**		**145**	**102**	**70.3%**
6. ALEUTIAN ISLANDS					
Adak	118	Chain Referral	1	1	100.0%
Akutan	117	Census	27	17	63.0%
Atka	84	Chain Referral	19	9	47.4%
Nikolski	27	Chain Referral	4	4	100.0%
Unalaska	397	Chain Referral	20	7	35.0%
Region Total	**743**		**71**	**38**	**53.5%**
7. PRIBILOF ISLANDS					
** St. George	140	Chain Referral	7	3	42.9%
* St. Paul	460	Chain Referral	18	18	100.0%
Region Total	**600**		**25**	**21**	**84.0%**
8. SOUTH BRISTOL BAY					
Egegik	89	Chain Referral	29	28	96.6%
King Salmon	133	Chain Referral	20	12	60.0%
Levelock	116	Chain Referral	22	13	59.1%
Naknek	319	Two Strata	39	23	59.0%
Pilot Point	86	Census	13	7	53.8%
Port Heiden	93	Chain Referral	26	26	100.0%
South Naknek	115	Census	22	20	90.9%
Region Total	**951**		**171**	**129**	**75.4%**
9. NORTH BRISTOL BAY					
Aleknagik	187	Census	43	28	65.1%
Clark's Point	69	Chain Referral	21	7	33.3%
Dillingham	1,503	Two Strata	98	37	37.8%
Manokotak	378	Two Strata	97	81	83.5%
Togiak	750	Two Strata	131	83	63.4%
Twin Hills	65	Chain Referral	21	18	85.7%
Region Total	**2,952**		**411**	**254**	**61.8%**
TOTAL	**53,687**		**1,677**	**1,209**	**72.1%**
(Excl. Anchorage)	(26,692)		(1,648)	(1,196)	**(72.6%)**

* St. Paul estimates derive from Zavadil et al (2004) and represent interim estimates based on 2003 data.

** Community not surveyed in 2005.

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2005.

Table 3
Sampling Methodology for Communities
With Two Strata Designs,
Harbor Seal and Sea Lion Surveys, 2004

Community	Number High Stratum Households	Sampled High Stratum Households	Percent High Stratum	Number Low Stratum Households	Sampled Low Stratum Households	Percent Low Stratum
Dillingham	24	13	54.2%	74	24	32.4%
Manokotak	36	33	91.7%	61	48	78.7%
Naknek	14	11	78.6%	25	12	48.0%
Togiak	74	49	66.2%	57	34	59.6%
Total	148	106	71.6%	217	118	54.4%

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2005.

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, consulting local researchers to resolve data questions in preparation for data entry and analysis, writing reports on each community's survey experience, and entering field notes into a centralized database.

In 2004, 38 local researchers collected information in 44 communities. Five communities (Anchorage, Homer, Kenai-Soldotna, Seward, and Tyonek) were surveyed by the project coordinator with the ANHSC (Joni Byrant). New harvest information was not collected in six communities (Cordova, False Pass, Hydaburg, Klukwan, Pelican, and St. George) 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 these six communities, as noted in Appendix C. With no year-round households in 2003 and

2004, Ivanof Bay was dropped as a survey community, although several households formerly residing at Ivanof Bay were included on the Perryville household lists. Adak was added as a survey community in 2003 with about fifteen year-round Alaska Native households. As stated above, in recent years harvest information at St. Paul has been collected under a program of the St. Paul tribe. Harvest information for 2004 was not available at the time of this report's publication, so interim harvest estimates for St. Paul were used, based on 2003 harvest information as reported in Zavadil et al. (2004). The interim estimates will be updated in subsequent annual reports.

Households were selected using three main designs, depending upon the community -- census sampling, chain referral sampling, and two-strata random sampling. The type of design used 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 random 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, 75.1 percent of identified households (985 of 1,312 households) were successfully contacted and interviewed. For communities with two-strata designs, 71.6 percent of high stratum households were successfully contacted and interviewed (106 of 148 households), while 54.4 percent of low stratum households were interviewed (118 of 217 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 all communities. The non-

response rate was due in large part to logistical problems in contacting households, rather than refusals to participate.

In the appendices, the statistical analysis presents harvest data in three different tables for each community. In the first table, the unexpanded reported take is presented for each community, representing actual animals reported killed by surveyed hunters with no fractions of animals. The second table presents the combined estimated expanded take for each stratum in the community. 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's 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 follow methods for stratified samples in Cochran (1977:5.13, 5.15). In this process, the unexpanded reported take (that is, the known take) was used as the lower range for a community if it was higher than the statistically-calculated lower take estimate.

THE SUBSISTENCE TAKE OF HARBOR SEALS IN 2004

Estimated Size of the Harbor Seals Take, 2004

The estimated size of the total take of harbor seals (*Phoca vitulina*) by Alaska Natives in 2004 is presented in Tables 4 and 5. In 2004, there were an estimated 1,822 harbor seals taken by Alaska Natives for subsistence uses (with a 95 percent confidence range of between 1,420 to 2,469 animals) (Table 4). Of the 2004 subsistence take, 14.0 percent (256 harbor seals) were struck and lost, and 86.0 percent (1,566 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 (*Phoca vitulina)* and spotted seals (*Phoca largha)* (see Fig. 3). Local indigenous Yup'ik taxonomies categorize adults of the two Linnaean species as a single type (*issuriq*) in this area, and categorize pups into two different types. Of the total North Bristol Bay take, we classified 29 seals as *Phoca vitulina* and 170 seals as *Phoca largha*, based on ecological features of the kill (degree of association with seasonal ice) (Appendix B, Table 9). Of the animals classified as *Phoca largha*, 27.3 percent (47 animals) were reported struck and lost, and 72.7 percent (124 animals) were harvested (Appendix B, Table 9). In Table 4, we also assumed the entire South Bristol Bay take of 90 animals was *Phoca vitulina*. Changing these assumptions will change the total statewide take estimate up or down. As stated above, we believe the best estimate of the subsistence take in 2004 is 1,822 harbor seals, based on the assumptions above.

Table 4
Estimated Subsistence Takes of
Harbor Seals (*Phoca vitulina*)
By Alaska Natives, 1992 - 2004

Year	Estimated Total: Harvest	Estimated Total: Struck and Lost	Estimated Total: Total Take	Lower and Upper Confidence Range for Total Take
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%*	
1994	2,313	308	2,621	2,110 - 3,457
	88.2%	*11.8%*	*100.0%*	
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%*	
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%*	
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%*	
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%*	

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 2005

Table 5
Regional Distribution of Subsistence Takes of
Harbor Seals (*Phoca vitulina*) by Alaska Natives, 2004
With Confidence Intervals and Statistical Ranges

Region	Estimated Total			Total Take			Percentage		
	Harvest	Struck and Lost	Take	Confidence Interval (+/- %)	Lower Range Estimate	Upper Range Estimate	of Take by Region	Per Capita Harvest	Struck and Lost Rate
Southeast	743.0	102.3	845.3	29.1%	698.0	1,091.4	46.4%	0.05	12.1%
North Pacific Rim	322.7	43.2	365.9	28.2%	299.3	469.1	20.1%	0.15	11.8%
Upper Kenai-Cook Inlet	56.6	13.4	69.9	70.6%	35.0	119.4	3.8%	0.00	19.1%
Kodiak Island	172.2	15.7	188.0	31.4%	148.0	247.0	10.3%	0.11	8.4%
South Alaska Peninsula	77.9	10.1	88.0	46.2%	65.6	128.7	4.8%	0.06	11.5%
Aleutian Islands	118.0	28.0	146.0	63.8%	77.8	239.2	8.0%	0.16	19.2%
Pribilof Islands	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.00	0.0%
South Bristol Bay	58.5	31.2	89.6	41.3%	75.0	126.6	4.9%	0.06	34.8%
North Bristol Bay	17.6	11.7	29.3	62.6%	20.9	47.6	1.6%	0.01	39.8%
ALASKA	1,566.4	255.6	1,822.0	35.5%	1,419.6	2,469.0	100.0%		14.0%
Percentage of Take	*86.0%*	*14.0%*	*100.0%*						

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2005.

Table 6
Subsistence Harbor Seal Harvest, Take, and Use by Alaska Natives, 2004
With Confidence Intervals and Statistical Ranges, by Community

	Harbor Seal Harvest Per Capita	Native Households Harvesting Harbor Seal	Native Households Using Harbor Seal	Harvest	Struck and Lost	Total Take	Total Take: Confidence Interval (+/- %)	Total Take: Lower Range Estimate	Total Take: Upper Range Estimate
SOUTHEAST ALASKA									
Angoon	.10	--	--	47.4	3.2	50.5	15.1%	48.0	58.1
Craig	.07	--	--	29.7	5.5	35.2	29.6%	32.0	45.6
Haines	.02	--	--	7.0	0.0	7.0	0.0%	7.0	7.0
Hoonah	.18	--	--	106.2	9.0	115.2	51.3%	64.0	174.4
Hydaburg	.04	--	--	14.4	0.0	14.4	54.3%	9.0	22.2
Juneau	.00	--	--	13.6	9.1	22.7	70.0%	10.0	38.5
Kake	.18	--	--	96.2	0.0	96.2	13.3%	89.0	109.0
Ketchikan	.03	--	--	60.0	5.0	65.0	0.0%	65.0	65.0
Klawock	.06	--	--	29.2	7.6	36.8	29.2%	29.0	47.6
Klukwan	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Pelican	.04	--	--	1.8	0.0	1.8	128.3%	1.0	4.0
Petersburg	.03	--	--	10.3	8.3	18.6	12.6%	18.0	21.0
Saxman	.02	--	--	5.0	0.0	5.0	175.3%	1.0	13.8
Sitka	.06	--	--	141.2	19.3	160.5	8.9%	158.0	174.8
Wrangell	.06	--	--	33.3	8.3	41.7	82.9%	25.0	76.2
Yakutat	.39	--	--	147.7	27.1	174.8	34.0%	142.0	234.3
NORTH PACIFIC RIM									
Chenega Bay	.32	38.9%	100.0%	21.1	1.1	22.2	18.8%	21.0	26.3
Cordova	.21	--	--	77.7	2.7	80.5	30.6%	59.0	105.0
Nanwalek	.18	14.9%	100.0%	30.2	12.5	42.7	21.5%	41.0	51.9
Port Graham	.29	11.1%	55.6%	44.4	2.8	47.2	73.6%	34.0	82.0
Seldovia	.02	--	--	1.0	1.0	2.0	0.0%	2.0	2.0
Seward	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Tatitlek	.99	52.6%	100.0%	90.2	23.1	113.3	0.0%	113.3	113.3
Valdez	.14	--	--	58.0	0.0	58.0	52.6%	29.0	88.5
UPPER KENAI-COOK INLET									
Anchorage	.00	--	--	46.8	13.4	60.2	76.7%	27.0	106.4
Homer	.01	--	--	3.7	0.0	3.7	86.0%	2.0	6.9
Kenai	.00	--	--	6.0	0.0	6.0	0.0%	6.0	6.0
Tyonek	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
KODIAK ISLAND									
Akhiok	.06	20.0%	40.0%	4.2	1.4	5.6	80.0%	4.0	10.1
Karluk	.12	22.2%	77.8%	3.1	0.0	3.1	77.5%	2.0	5.5
Kodiak City	.03	--	--	21.0	4.5	25.5	35.8%	17.0	34.6
Larsen Bay	.14	21.4%	42.9%	12.5	0.0	12.5	40.3%	10.0	17.5
Old Harbor	.19	25.5%	78.2%	37.8	5.9	43.7	22.8%	37.0	53.7
Ouzinkie	.37	--	--	73.0	3.9	76.9	20.7%	61.0	92.8
Port Lions	.13	--	--	20.6	0.0	20.6	58.7%	17.0	32.8
SOUTH ALASKA PENINSULA									
Chignik Bay	.00	0.0%	11.8%	0.0	0.0	0.0	0.0%	0.0	0.0
Chignik Lagoon	.01	5.9%	5.9%	1.1	0.0	1.1	63.6%	1.0	1.8
Chignik Lake	.05	16.7%	66.7%	6.7	3.3	10.0	164.0%	3.0	26.4
False Pass	.07	7.7%	46.2%	2.8	0.0	2.8	103.3%	2.0	5.6
King Cove	.09	90.0%	90.0%	32.3	0.0	32.3	26.9%	23.6	41.0
Perryville	.19	22.2%	85.2%	20.0	5.6	25.6	26.5%	23.0	32.3
Sand Point	.04	50.0%	66.7%	15.0	1.3	16.3	32.2%	13.0	21.5

Table 6 (Continued)
Subsistence Harbor Seal Harvest, Take, and Use by Alaska Natives, 2004
With Confidence Intervals and Statistical Ranges, by Community

	Harbor Seal Harvest Per Capita	Native Households Harvesting Harbor Seal[1]	Native Households Using Harbor Seal[1]	Harvest	Struck and Lost	Total Take	Total Take: Confidence Interval (+/- %)	Total Take: Lower Range Estimate	Total Take: Upper Range Estimate
ALEUTIAN ISLANDS									
Adak	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Akutan	.08	17.6%	41.2%	9.5	1.6	11.1	74.8%	7.0	19.4
Atka	.88	77.8%	100.0%	73.9	16.9	90.8	44.0%	50.8	130.7
Nikolski	.22	100.0%	100.0%	6.0	1.0	7.0	0.0%	7.0	7.0
Unalaska	.07	28.6%	57.1%	28.6	8.6	37.1	120.9%	13.0	82.1
PRIBILOF ISLANDS									
St. George	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
St. Paul	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
SOUTH BRISTOL BAY									
Egegik	.01	3.6%	3.6%	1.0	1.0	2.1	36.4%	2.0	2.8
King Salmon	.04	16.7%	33.3%	5.0	3.3	8.3	68.1%	5.0	14.0
Levelock	.00	0.0%	61.5%	0.0	0.0	0.0	0.0%	0.0	0.0
Naknek	.05	13.9%	39.8%	15.2	3.8	19.0	63.9%	13.0	31.1
Pilot Point	.02	14.3%	71.4%	1.9	5.6	7.4	133.2%	4.0	17.3
Port Heiden	.22	38.5%	61.5%	20.0	13.0	33.0	0.0%	33.0	33.0
South Naknek	.13	20.0%	30.0%	15.4	4.4	19.8	43.1%	18.0	28.3
NORTH BRISTOL BAY									
Aleknagik	.00	7.1%	92.9%	0.0	0.0	0.0	0.0%	0.0	0.0
Clark's Point	.00	57.1%	100.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Dillingham	.00	0.0%	93.7%	0.0	0.0	0.0	0.0%	0.0	0.0
Manokotak	.01	14.8%	77.2%	4.0	0.0	4.0	60.3%	3.3	6.3
Togiak	.01	19.0%	41.7%	6.9	9.7	16.6	74.7%	10.2	29.0
Twin Hills	.10	22.2%	61.1%	6.8	1.9	8.8	40.8%	7.5	12.3
ALASKA TOTAL				1,566.4	255.6	1,822.0	35.5%	1,419.6	2,469.0
SPOTTED SEALS, NORTH BRISTOL BAY									
Aleknagik	.02	7.1%	92.9%	4.6	1.5	6.1	68.7%	4.0	10.4
Clark's Point	.39	57.1%	100.0%	27.0	15.0	42.0	67.6%	14.0	70.4
Dillingham	.00	0.0%	93.7%	0.0	0.0	0.0	0.0%	0.0	0.0
Manokotak	.07	14.8%	77.2%	27.1	29.6	56.7	35.7%	46.7	77.0
Togiak	.09	--	--	63.8	0.0	63.8	32.9%	42.8	84.8
Twin Hills	.02	22.2%	61.1%	1.4	0.4	1.8	53.9%	1.5	2.7
TOTAL WITH OTHER SEALS				1,690.3	302.1	1,992.4	36.2%	1,528.7	2,714.1

[1] In North Bristol Bay, percentage of households harvesting and using *Issuriq*.

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2005.

Geographic Distribution of Harbor Seal Takes

Table 5 shows the regional distribution of harbor seal takes by Alaska Natives in 2004. The largest takes in absolute numbers were by the Tlingit and Haida of the Southeast region. About 46.4 percent (845 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 (366 seals, or 20.1 percent of the statewide take) and Kodiak Island (188 seals, or 10.3 percent). The remainder of the statewide harbor seal take (423 animals, or 23.2 percent) was distributed among the other six regions.

The geographic distribution of harbor seal takes by community is shown in Table 6. Of the top ten communities (in absolute numbers of harbor seals taken in 2004), five were in the Southeast region, two in the North Pacific Rim region, and one each in the Aleutian Islands, Kodiak Islands, and Upper Kenai-Cook Inlet regions. The ten top ranking communities were Yakutat (175 seals), Sitka (160 seals), Hoonah (115 seals), Tatitlek (113 seals), Kake (96 seals), Atka (91 seals), Cordova (80 seals), Ouzinkie (77 seals), Ketchikan (65 seals), and Anchorage (60 seals). There were eleven communities with no reported harbor seals taken in 2004 – Adak, Aleknagik, Chignik Bay, Clark's Point, Dillingham, Klukwan, Levelock, Seward, St. George, St. Paul, and Tyonek (spotted seals were reported taken at Aleknagik and Clark's Point, 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 ten communities in terms of harvests per capita in 2004 were Tatitlek (.99 seals harvested per person), Atka (.88), Yakutat (.39), Ouzinkie (.37), Chenega Bay (.32), Port Graham (.29), Nikolski (.22), Port Heiden (.22), Cordova (.21), and Perryville (.19). There was greater parity across regions in per capita harvests compared with total community take (Table 6). Among the top ten communities for per capita harvests, four were in the North Pacific Rim, two in

the Aleutian Islands, and one each in the Southeast, Kodiak Islands, South Alaska Peninsula, and South Bristol Bay regions.

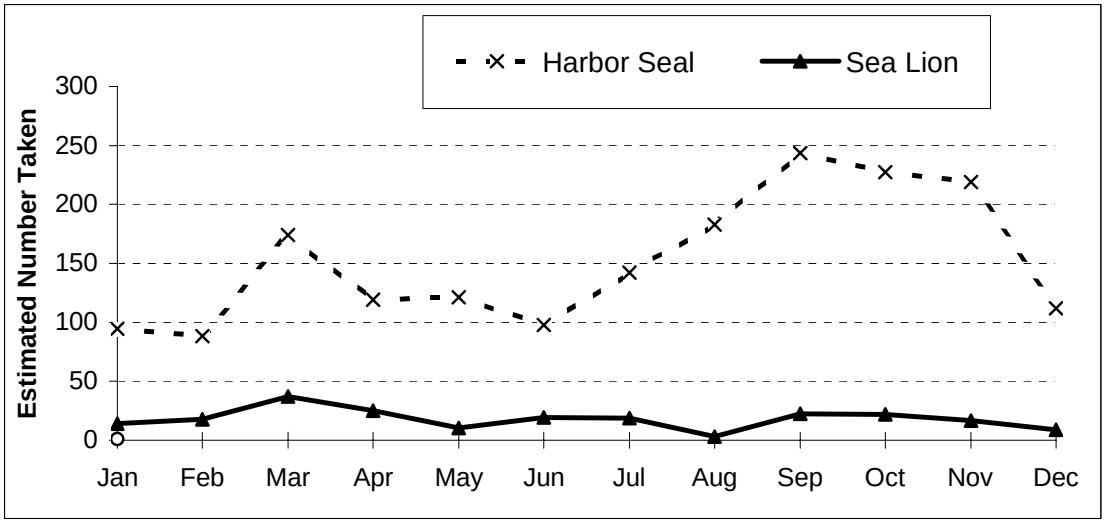
Seasonal Distribution of Harbor Seal Takes

The seasonal distribution of the statewide harbor seal take in 2004 is depicted in Figs. 4 and 5. Seals were taken during all months in 2004. Since 1992, the seasonal patterning of harbor seal takes commonly has shown two distinct hunting peaks, one during spring and a second during fall-early winter, and a low point in June (Fig. 5). This general pattern was repeated during 2004, with the early peak occurring in March and second period of productive hunting extended from August through November (Fig. 4). Overall, harbor seal hunting during 2004 was toward the low range for each month compared with other years. Harbor seal takes in January, February, and December were the lowest recorded for those months since surveys began in 1992. The fewest seals were taken during January, February, and June. Seasonal hunting patterns of each region and community are shown in the tables and figures of Appendices B and C.

Age and Sex Composition of Harbor Seal Harvests

The estimated age and sex composition of the 2004 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 2.4 to 1 (800 males to 333 females of harvests with reported sex). Hunters also reported harvesting substantially more adult harbor seals (79.7 percent) than juveniles (17.9 percent) or pups (2.3 percent). Overall, adult females (256 animals) comprised about 22.8 percent of the total harbor seal harvest whose age and sex was reported in 2004. Hunters did not report the

Figure 4
Seasonally Adjusted Takes of
Harbor Seals and Sea Lions
By Alaska Natives, 2004



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Harbor Seal	94.6	88.1	174.2	119.4	121.2	97.9	142.0	182.7	243.4	227.3	219.2	111.9
Percentage	*5.2%*	*4.8%*	*9.6%*	*6.6%*	*6.6%*	*5.4%*	*7.8%*	*10.0%*	*13.4%*	*12.5%*	*12.0%*	*6.1%*
Cum. Percent	*5.2%*	*10.0%*	*19.6%*	*26.1%*	*32.8%*	*38.2%*	*46.0%*	*56.0%*	*69.4%*	*81.8%*	*93.9%*	*100%*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sea Lion	14.0	17.7	37.0	25.2	10.5	19.4	19.0	2.9	22.3	22.2	17.0	8.8
Percentage	*6.5%*	*8.2%*	*17.1%*	*11.7%*	*4.9%*	*9.0%*	*8.8%*	*1.4%*	*10.3%*	*10.3%*	*7.9%*	*4.1%*
Cum. Percent	*6.5%*	*14.7%*	*31.8%*	*43.5%*	*48.3%*	*57.3%*	*66.1%*	*67.5%*	*77.8%*	*88.1%*	*95.9%*	*100%*

Source: Alaska Department of Fish and Game, Division of Subsistence Household Surveys, 2005.

Figure 5
Estimated Seasonally Adjusted Takes of Harbor Seals
by Alaska Natives, 1992 - 2004

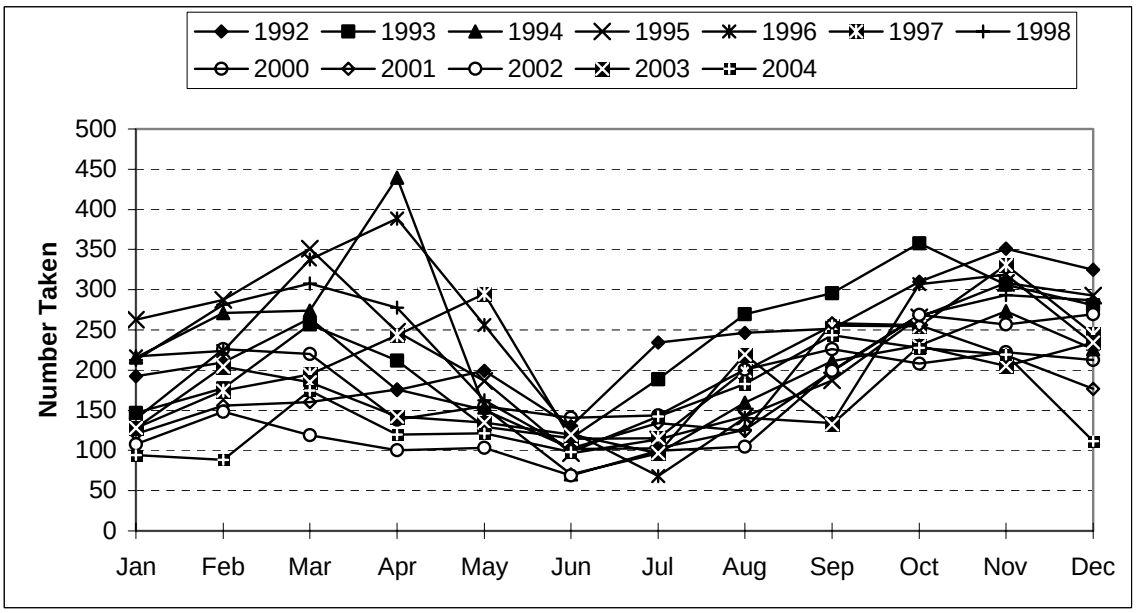
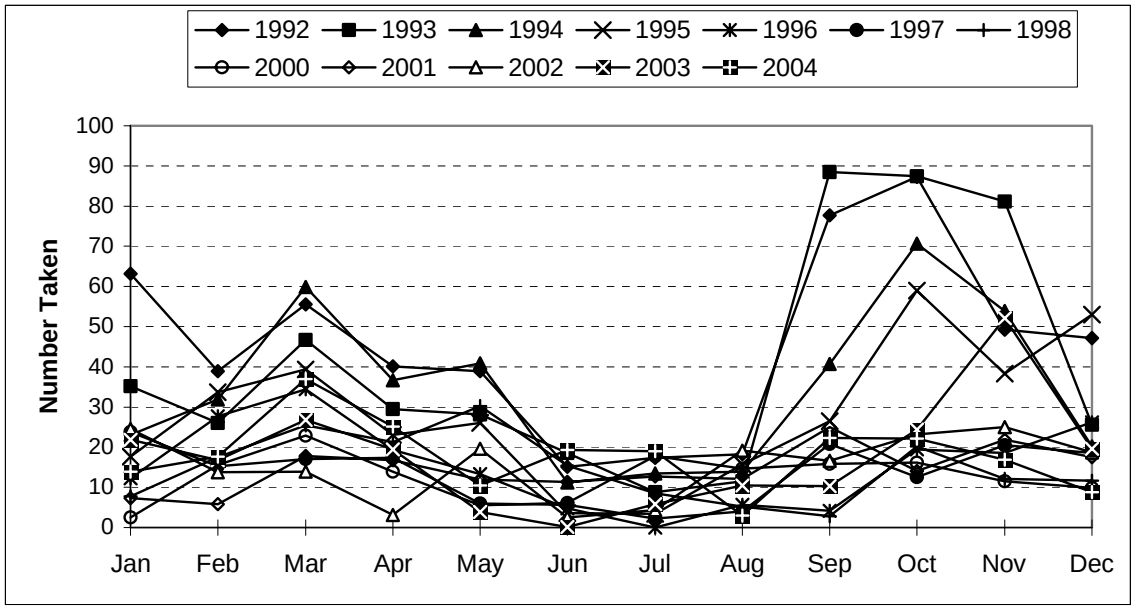


Figure 6
Estimated Seasonally Adjusted Takes of Sea Lions
by Alaska Natives, 1992 - 2004



Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2005.

Table 7
Age and Sex Composition of Harbor Seal Harvests
By Alaska Natives, 2004

	Male	Female	Unknown Sex	Total
Adult	675.4	255.7	158.1	1,089.2
Row Percent	*62.0%*	*23.5%*	*14.5%*	*100.0%*
Column Percent	*84.4%*	*76.7%*	*36.6%*	*69.6%*
Juvenile	102.6	69.0	73.4	244.9
Row Percent	*41.9%*	*28.2%*	*30.0%*	*100.0%*
Column Percent	*12.8%*	*20.7%*	*17.0%*	*15.6%*
Pup	11.3	8.5	12.0	31.9
Row Percent	*35.6%*	*26.7%*	*37.7%*	*100.0%*
Column Percent	*1.4%*	*2.6%*	*2.8%*	*2.0%*
Unknown Age	10.9	0.0	189.0	200.0
Row Percent	*5.5%*	*0.0%*	*94.5%*	*100.0%*
Column Percent	*1.4%*	*0.0%*	*43.7%*	*12.8%*
Total	800.2	333.2	432.5	1,566.0
Row Percent	*51.1%*	*21.3%*	*27.6%*	*100.0%*
Column Percent	*100.0%*	*100.0%*	*100.0%*	*100.0%*

Source: Alaska Department of Fish and Game, Division of Subsistence Surveys, 2005.

Table 8
Age and Sex Composition of Harbor Seal Harvests
By Alaska Natives by Region, 2004

AGE AND SEX	Southeast	North Pacific Rim	Upper Kenai-Cook Inlet	Kodiak Island	South Alaska Peninsula	Aleutian Islands	Pribilof Islands	South Bristol Bay	North Bristol Bay	Alaska
Adult Male	376.0	91.9	4.1	102.7	39.7	34.2	0.0	25.2	1.7	675.4
Adult Female	153.1	39.2	7.9	27.0	2.8	14.8	0.0	9.3	1.7	255.7
Adult Unknown Sex	31.0	36.2	15.6	30.4	18.9	8.4	0.0	13.9	3.7	158.1
Juvenile Male	64.3	17.8	2.2	11.0	1.1	0.0	0.0	2.1	4.0	102.6
Juvenile Female	29.4	22.2	2.2	1.2	1.1	12.8	0.0	0.0	0.0	69.0
Juvenile Unknown Sex	3.5	40.9	0.0	0.0	7.8	14.6	0.0	3.0	3.6	73.4
Pup Male	1.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3
Pup Female	1.2	4.4	0.0	0.0	0.0	2.9	0.0	0.0	0.0	8.5
Pup Unknown Sex	0.0	8.0	0.0	0.0	0.0	2.9	0.0	0.0	1.2	12.0
Male Unknown Age	7.1	1.1	0.0	0.0	2.8	0.0	0.0	0.0	0.0	10.9
Female Unknown Age	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown Age and Sex	76.3	50.6	24.5	0.0	3.8	27.4	0.0	5.0	1.3	189.0
TOTAL	743.0	322.7	56.6	172.2	77.9	118.0	0.0	58.5	17.2	1,566.0
AGE ONLY										
Adult	560.0	167.3	27.6	160.1	61.3	57.5	0.0	48.4	7.1	1,089.2
Juvenile	97.3	80.9	4.5	12.2	10.0	27.4	0.0	5.1	7.6	244.9
Pup	2.2	22.7	0.0	0.0	0.0	5.7	0.0	0.0	1.2	31.9
Unknown Age	83.4	51.7	24.5	0.0	6.5	27.4	0.0	5.0	1.3	200.0
TOTAL	743.0	322.7	56.6	172.2	77.9	118.0	0.0	58.5	17.2	1,566.0
SEX ONLY										
Male	448.4	121.1	6.3	113.6	43.5	34.2	0.0	27.3	5.7	800.2
Female	183.7	65.8	10.1	28.2	3.9	30.4	0.0	9.3	1.7	333.2
Unknown Sex	110.8	135.8	40.2	30.4	30.4	53.3	0.0	21.9	9.8	432.5
TOTAL	743.0	322.7	56.6	172.2	77.9	118.0	0.0	58.5	17.2	1,566.0

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2005.

sex for 27.6 percent of the harvest or the age for about 12.8 percent 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.

Hunter Assessments of Harbor Seal Population Trends

During 2000 and 2004, surveyed households were asked to make subjective assessments of harbor seal population trends in their hunting areas. Households were asked, “compared to five 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, and comparing 2004 with 1999 (see 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.” 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%). "Stable" seal populations was the most common assessment in all other regions, except for the Aleutian Islands where half of the hunters reported that populations "declined." Notable shifts in hunter assessments of trends between the two comparison periods are apparent for the North Pacific Rim (from 60.0 percent "declined" to 60.7 percent "stable"), Kodiak Island (from 18.7 percent "increased" to 52.9 percent "increased"), Southeast (from 10.1 percent "declined" to 28.5 percent "declined"), and South Alaska Peninsula (from 55.8 percent "declined" to 69.2 percent "stable"). Overall, based on hunter assessments of recent trends, harbor seal populations in most regions were primarily judged to be "stable" or "increased," except for the Aleutian Islands, where seal populations were assessed as "stable" or "declined."

Table 9
Local Harbor Seal Population Changes
Compared to Five Years Ago, Hunters' Assessments

Comparing 2000 with 1995

Region	Increased	Remained Stable	Declined
Southeast Alaska	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

Region	Increased	Remained Stable	Declined
Southeast Alaska	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%

*** May refer primarily to spotted seals in the mixed harbor seal-spotted seal population.*

Source: ADF&G, Division of Subsistence, Household Surveys, 2001 and 2005.

Table 10
Estimated Subsistence Takes of
Sea Lions (*Eumetopias jubatus*)
By Alaska Natives, 1992 - 2004

Year	Estimated Total: Harvest	Estimated Total: Struck and Lost	Estimated Total: Total Take	Lower and Upper Confidence Range for Total Take
1992	370	179	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%	*9.5%*	*100.0%*	
1996	152	34	186	165 - 226
	81.7%	*18.3%*	*100.0%*	
1997	146	18	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%	*13.9%*	*99.4%*	
2001	156	42	198	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
	78.0%	*22.0%*	*100.0%*	
2004	154.4	61.4	216	147 - 335
	71.6%	*28.4%*	*100.0%*	

Sources: Alaska Department of Fish and Game, Division of Surveys 2005; Lestenkof and Zavadil (2001); Lestenkoff, Zavadil, and Williams (2002); and Zavadil et al (2003, 2004)

THE SUBSISTENCE TAKE OF SEA LIONS IN 2004

Estimated Size of the Sea Lion Take, 2004

The estimated size of the total take of Steller sea lions by Alaska Natives in 2004 is presented in Tables 10 and 11. In 2004, there were an estimated 216 sea lions taken by Alaska Natives for subsistence uses (with a 95 percent confidence range of between 147 to 335 animals) (Table 10). Of the 2004 subsistence take, 28.4 percent (61.4 sea lions) were struck and lost, and 71.6 percent (154.4 sea lions) were harvested.

Geographic Distribution of Sea Lion Takes

Table 11 shows the regional distribution of sea lion takes in 2004 by Alaska Natives. In 2004, the takes were split among four main regions – the Aleutian Islands (96 sea lions, or 44.5 percent of the total statewide take of sea lions), the North Pacific Rim (54 sea lions, or 25.0 percent), Kodiak Island (17 sea lions, or 7.9 percent), and the Pribilof Islands (32 sea lions, or 14.8 percent). Other regions harvesting sea lions were the Southeast region (12 sea lions, 5.5 percent), South Alaska Peninsula (4 sea lions, 1.8 percent), and North Bristol Bay (1 sea lion, 0.5 percent) (Table 11).

The geographic distribution of sea lion takes by community is shown in Table 12. In 2004, 21 of 62 surveyed communities reported harvesting sea lions. Nine communities had takes of five or more sea lions in 2004. Twelve more communities reported a take of less than five sea lions each. The seven top ranking communities were Atka (63.3 sea lions), Tatitlek (36.6 sea lions), Unalaska (22.9 sea lions), St. Paul (18.0 sea lions), St. George (14.0 sea lions), Port Graham (12.5 sea lions), and Old Harbor (11.8 sea lions). These seven communities accounted for 179.1 sea lions, or 83.0 percent of the total Alaska take.

Table 11
Regional Distribution of Subsistence Takes of
Sea Lions (*Eumetopias jubatus*) by Alaska Natives, 2004
With Confidence Intervals and Statistical Ranges

	Estimated Total			Total Take					
Region	Harvest	Struck and Lost	Take	Confidence Interval (+/-)%	Lower Range Estimate	Upper Range Estimate	Percentage of Take by Region	Per Capita Harvest	Struck and Lost Rate
Southeast	4.6	7.2	11.8	81.3%	8.0	21.3	5.5%	0.00	61.2%
North Pacific Rim	38.0	15.8	53.9	25.5%	49.6	67.6	25.0%	0.02	29.4%
Upper Kenai-Cook Inlet	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.00	0.0%
Kodiak Island	13.5	3.5	17.0	46.2%	14.0	24.9	7.9%	0.01	20.8%
South Alaska Peninsula	3.9	0.0	3.9	78.9%	3.0	7.0	1.8%	0.00	0.0%
Aleutian Islands	70.9	25.1	96.0	81.6%	46.0	174.2	44.5%	0.10	26.2%
Pribilof Islands	22.3	9.7	32.0	0.0%	25.0	38.0	14.8%	0.04	30.2%
South Bristol Bay	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.00	0.0%
North Bristol Bay	1.2	0.0	1.2	74.1%	1.0	2.0	0.5%	0.00	0.0%
ALASKA	154.4	61.4	215.7	55.3%	146.6	335.1	100.0%		28.4%
Percentage of Take	*71.6%*	*28.4%*	*100.0%*						

Sources: Alaska Department of Fish and Game, Division of Subsistence Surveys, 2005 and Zavadil et al (2004).

Seasonal Distribution of Sea Lion Takes

The seasonal distribution of the sea lion take in 2004 is depicted in Figs. 4 and 6. Sea lions were reported killed during every month in 2004. Productivity was greatest in March (37.0 sea lions) and lowest in August (2.9 sea lions). The monthly productivity of sea lion hunting in 2004 showed a mid-range of productivity compared with recent years. Overall, productivity was substantially poorer compared with the period 1992 through 1995. The declines of productivity during both the spring and fall periods are particularly notable in Fig. 6. Seasonal hunting patterns of regions and communities are depicted in the tables and figures of Appendices B and C.

Age and Sex Composition of Sea Lion Harvests

The reported age and sex compositions of the 2004 sea lion harvests are shown in Tables 13 and 14. Hunters reported harvesting male over female sea lions by a ratio of about 1.8 to 1 (84.7 males to 46.2 females of animals with sex reported), below the previous five-year average of 4.1 to 1 (Fig. 26). In 2004, hunters reported taking more adult sea lions (77.2 adults, 57.7 percent of the take with age reported) than juvenile sea lions (56.6 juveniles, 42.3 percent), with no sea lion pups reported taken by surveyed hunters. From 1992 to 1995, juvenile harvests outnumbered adult harvests by at least 2 to 1 – 2.3 juveniles to one adult (1992), 1.9 (1993), 2.2 (1994), and 2.0 (1995). Since 1996, the ratio of juveniles to adults has decreased substantially – 1.0 juveniles to one 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 one), a ratio repeated in 2003 (0.5 to one). In 2004, the ratio was 0.7 juveniles for one adult, similar to the ratio in 1998. Adult females (24 animals) comprised about 20.5 percent of the total harvest of sea lions of known age and sex in 2004. Hunters did not report the

Table 12
Subsistence Sea Lion Harvest, Take, and Use by Alaska Natives, 2004
With Confidence Intervals and Statistical Ranges, by Community

	Sea Lion Harvest Per Capita	Native Households Harvesting Sea Lion	Native Households Using Sea Lion	Harvest	Struck and Lost	Total Take	Total Take: Confidence Interval (+/- %)	Total Take: Lower Range Estimate	Total Take: Upper Range Estimate
SOUTHEAST ALASKA									
Angoon	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Craig	.01	--	--	3.3	0.0	3.3	32.3%	3.0	4.4
Haines	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Hoonah	.00	--	--	0.0	7.2	7.2	102.2%	4.0	14.6
Hydaburg	.00	--	--	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
Kake	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Ketchikan	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Klawock	.00	--	--	1.3	0.0	1.3	90.3%	1.0	2.4
Klukwan	.00	--	--	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
Petersburg	.00	--	--	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
Sitka	.00	--	--	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
Yakutat	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
NORTH PACIFIC RIM									
Chenega Bay	.00	0.0%	16.7%	0.0	0.0	0.0	0.0%	0.0	0.0
Cordova	.01	--	--	2.7	0.0	2.7	101.2%	2.0	5.5
Nanwalek	.01	4.3%	31.9%	2.1	0.0	2.1	27.7%	2.0	2.7
Port Graham	.05	5.6%	27.8%	6.9	5.6	12.5	83.3%	9.0	22.9
Seldovia	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Seward	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Tatitlek	.29	42.1%	78.9%	26.3	10.3	36.6	0.0%	36.6	36.6
Valdez	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
UPPER KENAI-COOK INLET									
Anchorage	.00	--	--	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
Kenai	.00	--	--	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
KODIAK ISLAND									
Akhiok	.02	10.0%	20.0%	1.4	0.0	1.4	104.8%	1.0	2.9
Karluk	.00	0.0%	0.0%	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
Larsen Bay	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Old Harbor	.04	10.9%	60.0%	8.3	3.5	11.8	31.2%	10.0	15.5
Ouzinkie	.01	--	--	2.6	0.0	2.6	65.8%	2.0	4.3
Port Lions	.01	--	--	1.2	0.0	1.2	82.3%	1.0	2.2
SOUTH ALASKA PENINSULA									
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 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	0.0	0.0	0.0%	0.0	0.0
King Cove	.00	10.0%	30.0%	1.7	0.0	1.7	125.8%	1.0	3.8
Perryville	.02	7.4%	11.1%	2.2	0.0	2.2	43.0%	2.0	3.2
Sand Point	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0

Table 12 (Continued)
Subsistence Sea Lion Harvest, Take, and Use by Alaska Natives, 2004
With Confidence Intervals and Statistical Ranges, by Community

	Sea Lion Harvest Per Capita	Native Households Harvesting Sea Lion	Native Households Using Sea Lion	Harvest	Struck and Lost	Total Take	Total Take: Confidence Interval (+/- %)	Total Take: Lower Range Estimate	Total Take: Upper Range Estimate
ALEUTIAN ISLANDS									
Adak	.02	--	--	2.0	1.0	3.0	0.0%	3.0	3.0
Akutan	.04	11.8%	58.8%	4.8	0.0	4.8	86.7%	3.0	8.9
Atka	.60	55.6%	100.0%	50.7	12.7	63.3	67.8%	30.0	106.3
Nikolski	.07	50.0%	50.0%	2.0	0.0	2.0	0.0%	2.0	2.0
Unalaska	.03	14.3%	28.6%	11.4	11.4	22.9	136.4%	8.0	54.0
PRIBILOF ISLANDS									
St. George	.07	100.0%	100.0%	9.3	4.7	14.0	42.8%	7.0	20.0
St. Paul	.03	N/A	N/A	13.0	5.0	18.0	0.0	18.0	18.0
SOUTH BRISTOL BAY									
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 BRISTOL 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
Twin Hills	.02	5.6%	5.6%	1.2	0.0	1.2	74.1%	1.0	2.0
ALASKA TOTAL				154.4	61.4	215.7	55.3%	146.6	335.1

Sources: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2005 and Zavadil et al (2004).

Table 13
Age and Sex Composition of Sea Lion Harvests
By Alaska Natives, 2004

	Male	Female	Unknown Sex	Total
Adult	47.5	24.2	5.5	77.2
Row Percent	61.6%	31.3%	7.1%	100.0%
Column Percent	56.1%	52.4%	23.3%	50.0%
Juvenile	35.1	11.5	9.9	56.5
Row Percent	62.1%	20.3%	17.6%	100.0%
Column Percent	41.4%	24.8%	42.4%	36.6%
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	2.1	10.6	8.0	20.7
Row Percent	10.2%	51.0%	38.8%	100.0%
Column Percent	2.5%	22.8%	34.2%	13.4%
Total	84.7	46.2	23.4	154.4
Row Percent	54.9%	29.9%	15.2%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%

Sources: Alaska Department of Fish and Game, Division of Subsistence Surveys, 2005

Table 14
Age and Sex Composition of Sea Lion Harvests
By Alaska Natives by Region, 2004

AGE AND SEX	Southeast	North Pacific Rim	Upper Kenai-Cook Inlet	Kodiak Island	South Alaska Peninsula	Aleutian Islands	Pribilof Islands	South Bristol Bay	North Bristol Bay	Alaska
Adult Male	0.0	9.8	0.0	11.1	1.7	22.6	2.3	0.0	0.0	47.5
Adult Female	0.0	2.4	0.0	0.0	0.0	21.8	0.0	0.0	0.0	24.2
Adult Unknown Sex	3.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
Juvenile Male	1.1	4.4	0.0	2.4	2.2	3.9	20.0	0.0	1.2	35.1
Juvenile Female	0.0	4.4	0.0	0.0	0.0	7.1	0.0	0.0	0.0	11.5
Juvenile Unknown Sex	0.0	7.1	0.0	0.0	0.0	2.9	0.0	0.0	0.0	9.9
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	2.1	0.0	0.0	0.0	2.1
Female Unknown Age	0.0	0.0	0.0	0.0	0.0	10.6	0.0	0.0	0.0	10.6
Unknown Age and Sex	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
TOTAL	4.6	38.0	0.0	13.5	3.9	70.9	22.3	0.0	1.2	154.4
AGE ONLY										
Adult	3.5	14.2	0.0	11.1	1.7	44.4	2.3	0.0	0.0	77.2
Juvenile	1.1	15.9	0.0	2.4	2.2	13.8	20.0	0.0	1.2	56.5
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	8.0	0.0	0.0	0.0	12.7	0.0	0.0	0.0	20.7
TOTAL	4.6	38.0	0.0	13.5	3.9	70.9	22.3	0.0	1.2	154.4
SEX ONLY										
Male	1.1	14.2	0.0	13.5	3.9	28.6	22.3	0.0	1.2	84.7
Female	0.0	6.8	0.0	0.0	0.0	39.4	0.0	0.0	0.0	46.2
Unknown Sex	3.5	17.1	0.0	0.0	0.0	2.9	0.0	0.0	0.0	23.4
TOTAL	4.6	38.0	0.0	13.5	3.9	70.9	22.3	0.0	1.2	154.4

Sources: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2005

Table 15
Local Sea Lion Population Changes
Compared to Five Years Ago, Hunters' Assessments

Comparing 2000 with 1995

Region	Increased	Remained Stable	Declined
Southeast Alaska	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

Region	Increased	Remained Stable	Declined
Southeast Alaska	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%

*** May refer primarily to spotted seals in the mixed harbor seal-spotted seal population.*

Source: ADF&G, Division of Subsistence, Household Surveys, 2001 and 2005.

sex for 15.2 percent of the harvest or the age for about 13.4 percent of the harvest. The age and sex also are unknown for sea lions that were struck and lost by surveyed hunters.

Hunter Assessments of Sea Lion Population Trends

During 2000 and 2004, surveyed households were asked to make subjective assessments of sea lion population trends in their hunting areas. Households were asked, “compared to five 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, and comparing 2004 with 1999 (see 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 three 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 three regions, 16.7 percent or less of hunters reported sea lion populations had "declined" comparing 2004 with 1999. By contrast, in the South Alaska Peninsula, 66.7 percent of hunters reported sea lion populations had "declined" comparing 2004 with 1999, similar to the assessment comparing 2000 with 1995 (63.6 percent of hunters reported "declined"). In the Aleutian Islands, half of surveyed hunters assessed that sea lion populations had "declined" comparing 2004 with 1999, while half assessed populations as "stable."

Table 16
Participation Rates of Alaska Native Households in Hunting Harbor Seals or Sea Lions, 1992 - 2004

		HARBOR SEAL			SEA LION		
		Households	Percent of Households	Percent of Hunting HHs	Households	Percent of Households	Percent of Hunting HHs
1992	Did Not Hunt	2,698	73%	--	4,142	95%	--
	Hunted Unsuccessfully	290	8%	29%	78	2%	35%
	Hunted Successfully	724	19%	71%	144	3%	65%
	Total Households	3,712	100%	--	4,364	100%	--
	Total Hunting Households	1,014	27%	100%	222	5%	100%
1993	Did Not Hunt	3,510	80%	--	4,142	95%	--
	Hunted Unsuccessfully	216	5%	25%	78	2%	35%
	Hunted Successfully	638	15%	75%	144	3%	65%
	Total Households	4,364	100%	--	4,364	100%	--
	Total Hunting Households	854	20%	100%	222	5%	100%
1994	Did Not Hunt	3,311	77%	--	4,072	95%	--
	Hunted Unsuccessfully	362	8%	37%	85	2%	40%
	Hunted Successfully	608	14%	63%	125	3%	60%
	Total Households	4,282	100%	--	4,282	100%	--
	Total Hunting Households	971	23%	100%	210	5%	100%
1995	Did Not Hunt	2,926	78%	--	3,573	96%	--
	Hunted Unsuccessfully	208	6%	26%	39	1%	24%
	Hunted Successfully	597	16%	74%	120	3%	76%
	Total Households	3,731	100%	--	3,731	100%	--
	Total Hunting Households	805	22%	100%	158	4%	100%
1996	Did Not Hunt	2,781	76%	--	3,510	96%	--
	Hunted Unsuccessfully	240	7%	28%	45	1%	35%
	Hunted Successfully	619	17%	72%	85	2%	65%
	Total Households	3,640	100%	--	3,640	100%	--
	Total Hunting Households	859	24%	100%	130	4%	100%
1997	Did Not Hunt	2,172	75%	--	2,813	97%	--
	Hunted Unsuccessfully	150	5%	20%	23	1%	23%
	Hunted Successfully	588	20%	80%	75	3%	77%
	Total Households	2,910	100%	--	2,910	100%	--
	Total Hunting Households	738	25%	100%	97	3%	100%
1998	Did Not Hunt	1,862	72%	--	2,458	96%	--
	Hunted Unsuccessfully	100	4%	14%	36	1%	33%
	Hunted Successfully	607	24%	86%	75	3%	67%
	Total Households	2,569	100%	--	2,569	100%	--
	Total Hunting Households	707	28%	100%	111	4%	100%
2000	Did Not Hunt	1,744	70%	--	2,403	97%	--
	Hunted Unsuccessfully	124	5%	17%	16	1%	19%
	Hunted Successfully	620	25%	83%	70	3%	81%
	Total Households	2,489	100%	--	2,489	100%	--
	Total Hunting Households	745	30%	100%	86	3%	100%
2001	Did Not Hunt	1,756	75%	--	2,233	96%	--
	Hunted Unsuccessfully	83	4%	14%	20	1%	21%
	Hunted Successfully	491	21%	86%	78	3%	79%
	Total Households	2,331	100%	--	2,331	100%	--
	Total Hunting Households	575	25%	100%	98	4%	100%
2002	Did Not Hunt	1,168	66%	--	1,666	94%	--
	Hunted Unsuccessfully	105	6%	17%	32	2%	31%
	Hunted Successfully	495	28%	83%	70	4%	69%
	Total Households	1,768	100%	--	1,768	100%	--
	Total Hunting Households	600	34%	100%	102	6%	100%
2003	Did Not Hunt	1,179	68%	--	1,646	94%	--
	Hunted Unsuccessfully	111	6%	20%	21	1%	22%
	Hunted Successfully	453	26%	80%	76	4%	78%
	Total Households	1,743	100%	--	1,743	100%	--
	Total Hunting Households	564	32%	100%	97	6%	100%
2004	Did Not Hunt	1,142	68%	--	1,579	94%	--
	Hunted Unsuccessfully	78	5%	15%	22	1%	22%
	Hunted Successfully	457	27%	85%	76	5%	78%
	Total Households	1,677	100%	--	1,677	100%	--
	Total Hunting Households	535	32%	100%	98	6%	100%

Source: Alaska Department of Fish and Game, Division of Subsistence Surveys, 2005.
Note: St. Paul Island included between 1992 and 1998, but not thereafter.

Figure 7. Specialization in Harbor Seal and Sea Lion Takes: Percentage of Hunting Households by Percentage of Take, 2004

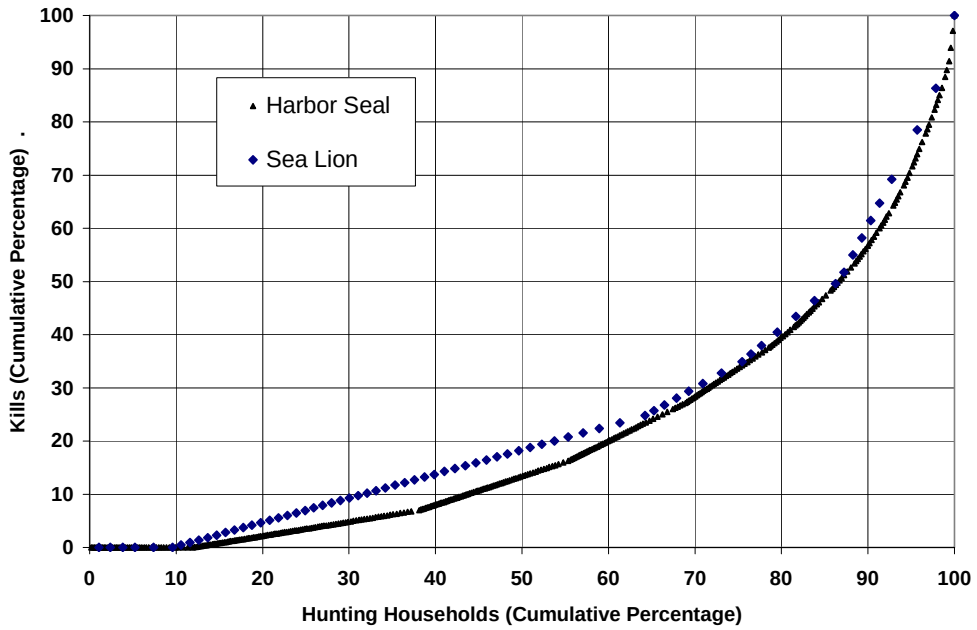


Figure 8. Trends in Numbers of Households Hunting Harbor Seals and Sea Lions, 1992 - 2004

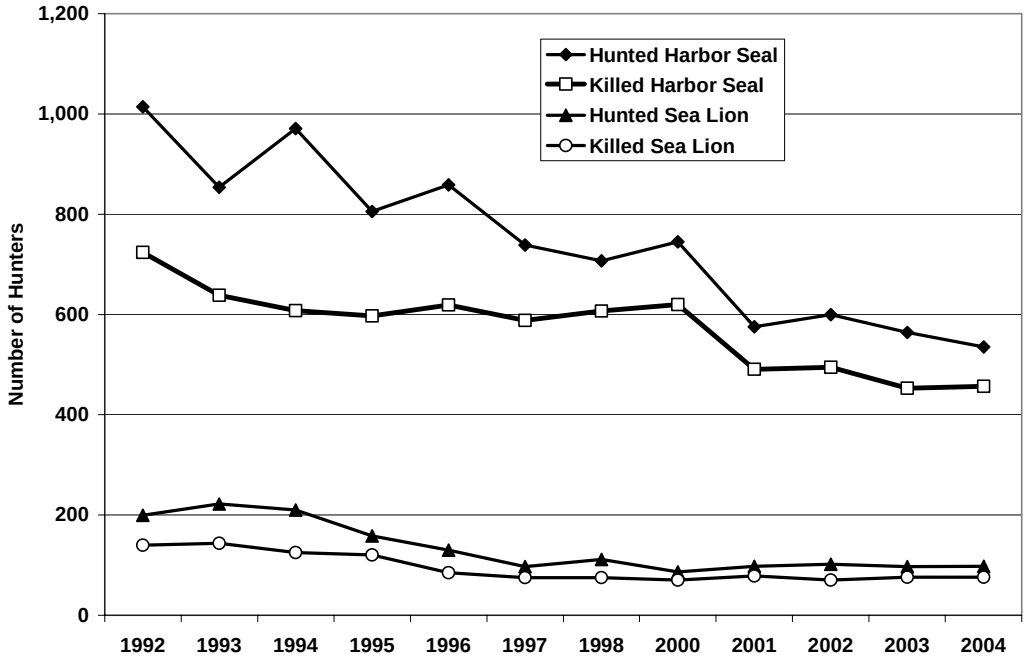


Table 17
Time and Effort Spent Hunting Harbor Seals in 2000
Compared with Five Years Ago, Hunters' Assessments

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.

Source: ADF&G, Division of Subsistence, Household Surveys, 2001.

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%

Source: ADF&G, Division of Subsistence, Household Surveys, 2001.

HUNTING PARTICIPATION AND EFFORT

In calendar year 2004, there were about 535 households hunting harbor seals and 98 households hunting sea lions (Table 16). Since 1992, there has been a substantial decline in the numbers of hunters for harbor seals and for sea lions (Fig. 8). Based on survey findings, the estimated numbers of households that reported at least one 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), and 564 (2003). The estimated numbers of households that reported at least one member hunting sea lions were 199 (1992), 222 (1993), 210 (1994), 158 (1995), 130 (1996), 97 (1997), 111 (1998), 86 (2000), 98 (2001), 90 (2002), and 97 (2003).

The percentage of hunting households that reported hunting unsuccessfully for harbor seals in 2004 was 15 percent, compared with 29 percent (1992), 25 percent (1993), 37 percent (1994), 26 percent (1995), 28 percent (1996), 20 percent (1997), 14 percent (1998), 17 percent (2000), 14 percent (2001), 17 percent (2002), and 20 percent (2003). Therefore, seal hunter success rates have slightly improved while the absolute number of hunters has fallen. The percentage of unsuccessful hunting households for sea lions was 22 percent in 2004, compared with 30 percent (1992), 35 percent (1993), 40 percent (1994), 24 percent (1995), 35 percent (1997), 23 percent (1997), 33 percent (1998), 25 percent (2000), 21 percent (2001), 29 percent (2002), and 22 percent (2003).

In the 2000 survey cycle, surveyed households were asked to make a subjective assessment of their hunting effort in 2000 compared with five years before. Households were asked, “compared to five 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 five 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 1995-1999. The subjective assessments for hunting households are shown in Tables 17 and 18 (responses of households not hunting during the previous five 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 percent reported taking the “same time and effort” for hunting seals, while 30.2 percent reported taking “less time and effort.” Only 8.7 percent of households reported taking “more time and effort” compared with the prior five years. By contrast, larger percentages of households reported taking “more time and effort” in seal hunting in the Aleutian Islands (42.6 percent), North Pacific Rim (33.7 percent), and Kodiak Island (29.5 percent). 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 five years – 17.4 percent (North Pacific Rim) and 20.0 percent (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 1995-1999. More than half of the households reported taking “more time and effort” in hunting sea lions in the Aleutian Islands (67.3 percent) and the Kodiak Islands (55.3 percent). In the North Pacific Rim, 44.7 percent reported taking the “same time and effort” and 28.9 percent reported “less time and effort.” A relatively large percentage of households reported that they had stopped hunting sea lions during the prior five years in the South Alaska Peninsula (37.5 percent) and Kodiak Island (21.1 percent).

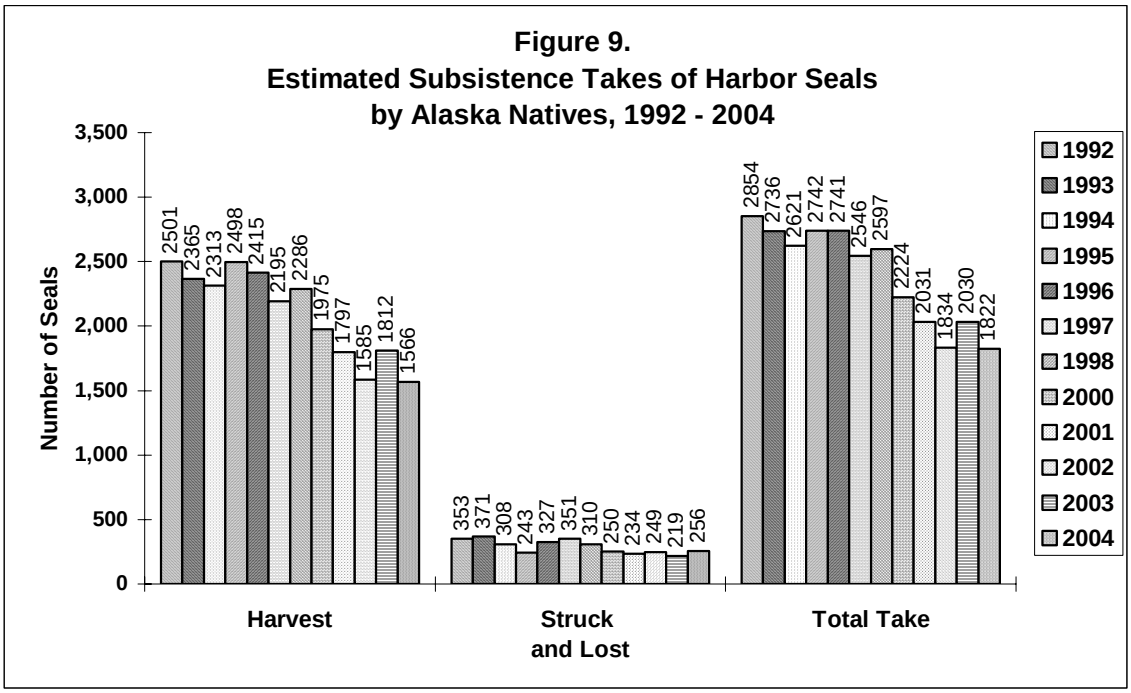


Figure 9.
Estimated Subsistence Takes of Harbor Seals
by Alaska Natives, 1992 - 2004
Number of Seals
3,500
3,000
2,500
2,000
1,500
1,000
500
0
2501 2365 2313 2498 2415 2195 2286 1975 1797 1585 1812 1566
353 371 308 243 327 351 310 250 234 249 219 256
2854 2736 2621 2742 2741 2546 2597 2224 2031 1834 2030 1822
Harvest
Struck and Lost
Total Take
1992
1993
1994
1995
1996
1997
1998
2000
2001
2002
2003
2004

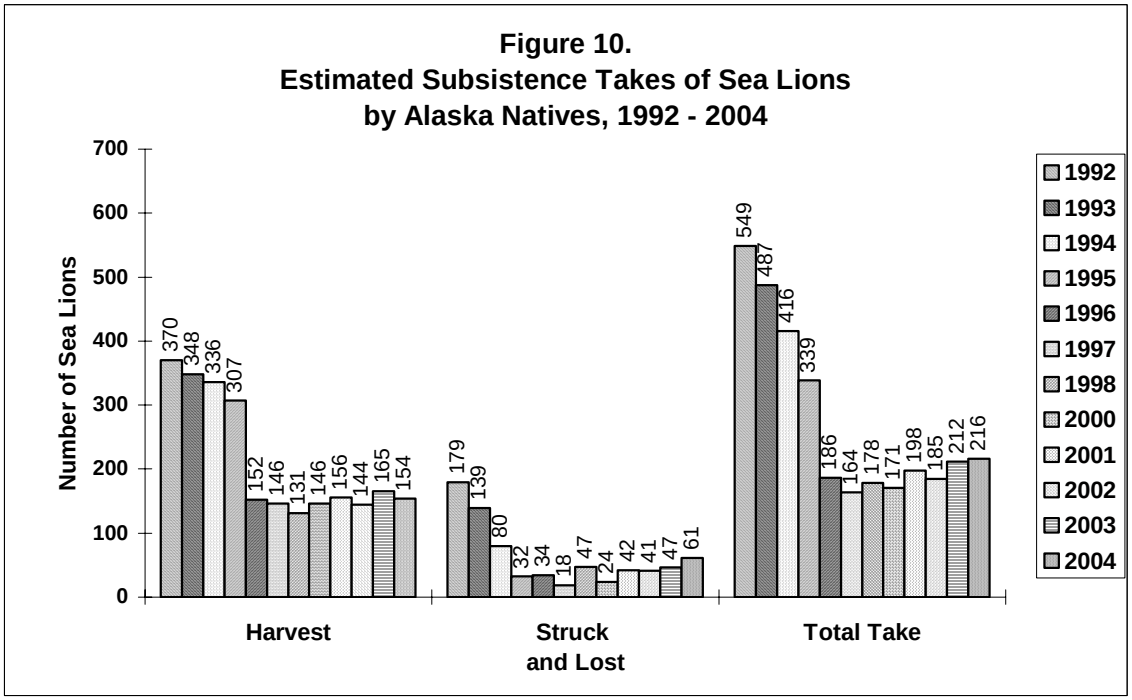
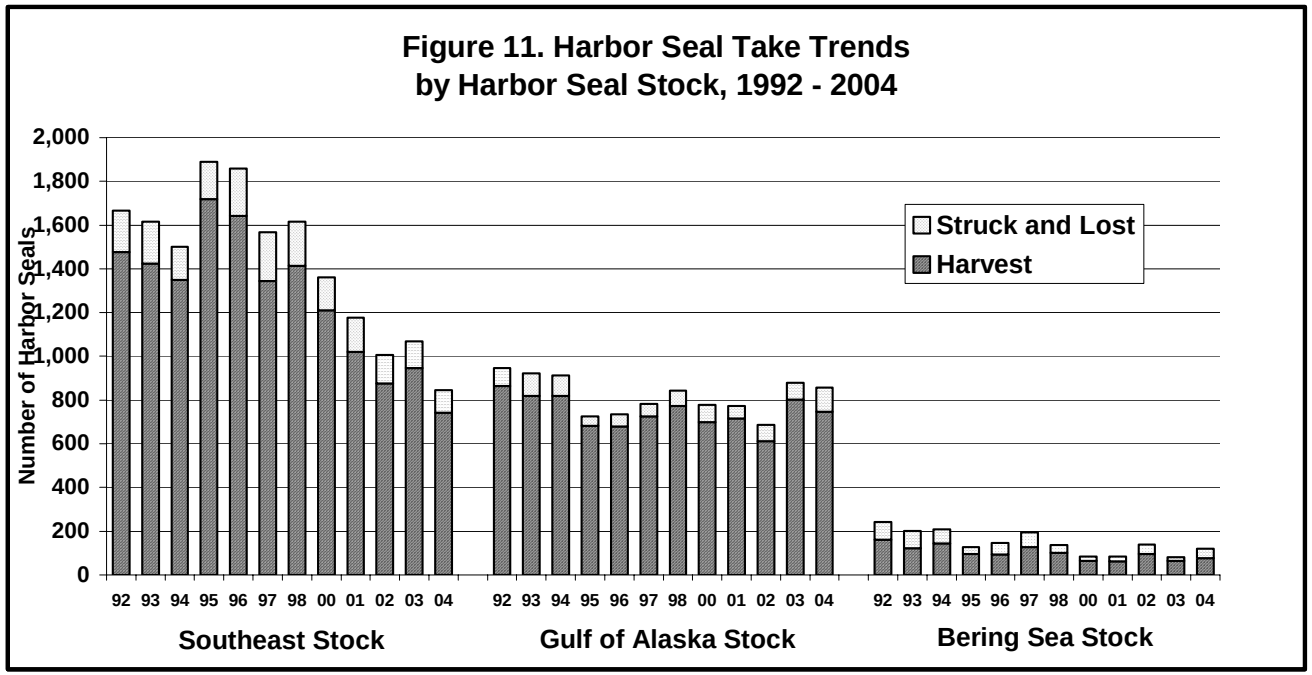


Figure 10.
Estimated Subsistence Takes of Sea Lions
by Alaska Natives, 1992 - 2004
Number of Sea Lions
700
600
500
400
300
200
100
0
370 348 336 307 152 146 131 146 156 144 165 154
179 139 80 32 34 18 47 24 42 41 47 61
549 487 416 339 186 164 178 171 198 185 212 216
Harvest
Struck and Lost
Total Take
1992
1993
1994
1995
1996
1997
1998
2000
2001
2002
2003
2004



	Southeast Alaska Stock			Gulf of Alaska Stock			Bering Sea Stock		
	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck 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

Source: Alaska Department of Fish and Game, Division of Subsistence and Alaska Native Harbor Seal Commission, 2005

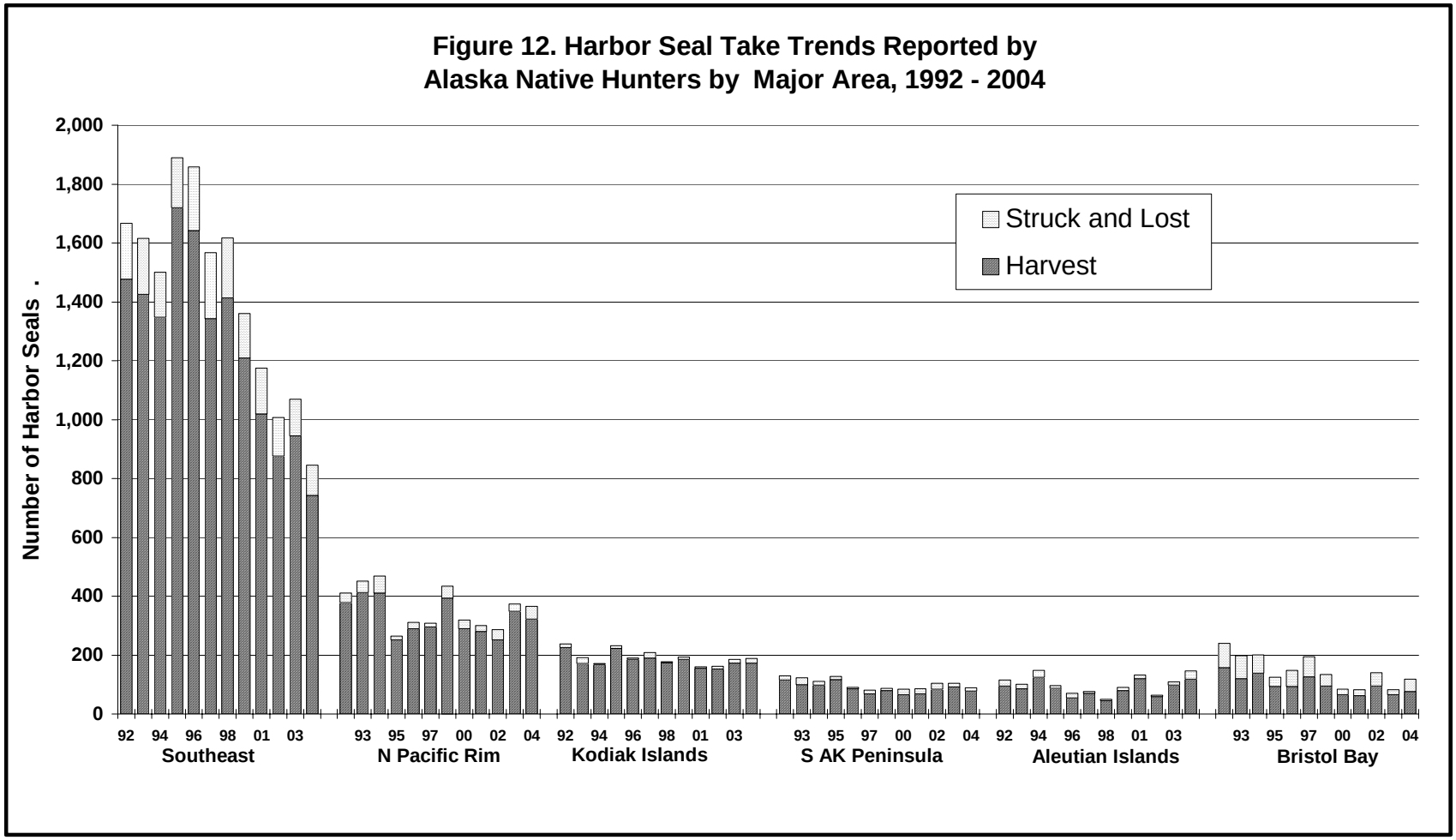


Figure 12. Harbor Seal Take Trends Reported by
Alaska Native Hunters by Major Area, 1992 - 2004
Number of Harbor Seals
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
Struck and Lost
Harvest
92 94 96 98 01 03
Southeast
93 95 97 00 02 04
N Pacific Rim
92 94 96 98 01 03
Kodiak Islands
93 95 97 00 02 04
S AK Peninsula
92 94 96 98 01 03
Aleutian Islands
93 95 97 00 02 04
Bristol Bay

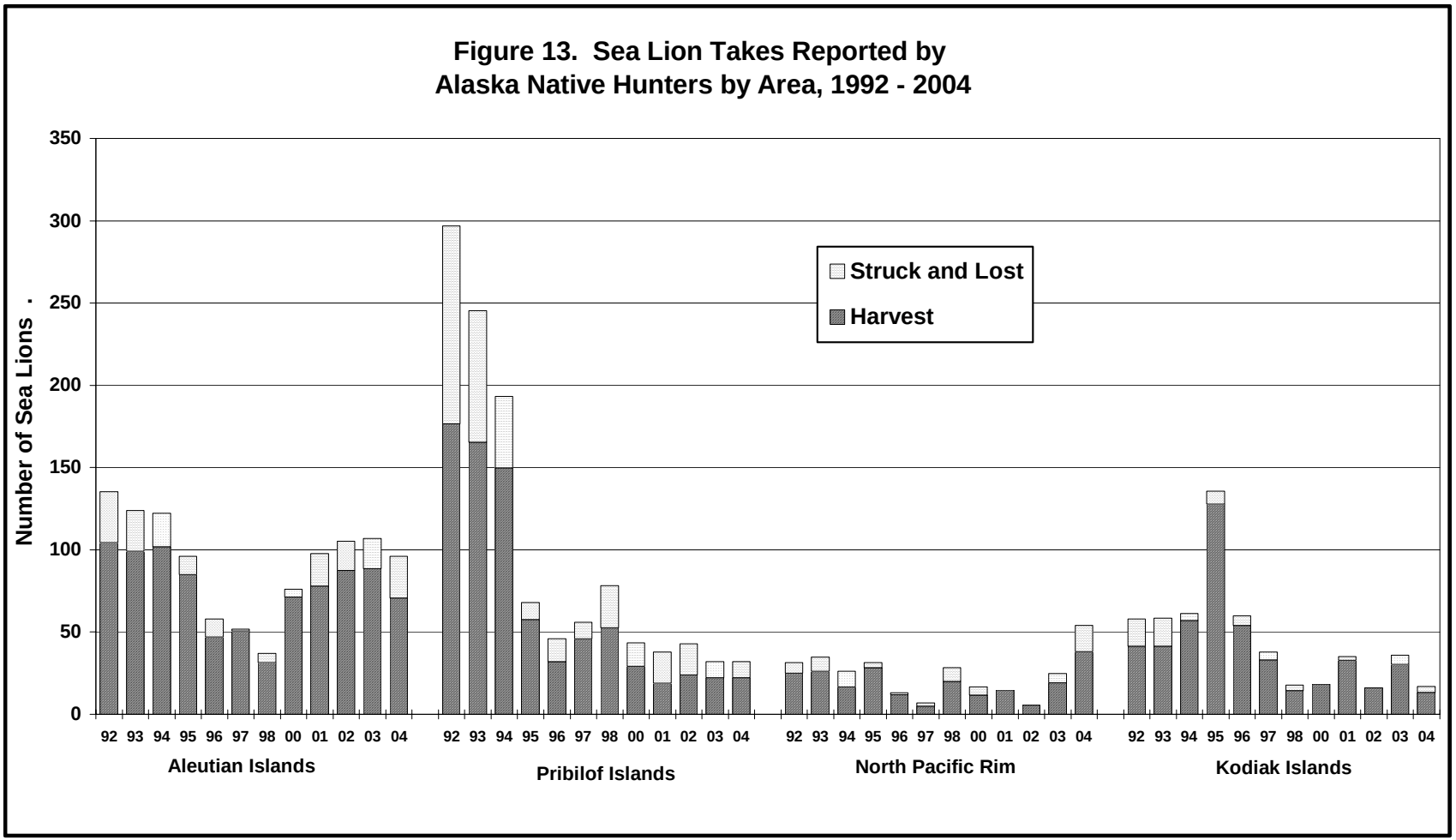


Figure 13. Sea Lion Takes Reported by
Alaska Native Hunters by Area, 1992 - 2004
Number of Sea Lions
350
300
250
200
150
100
50
0
Struck and Lost
Harvest
92 93 94 95 96 97 98 00 01 02 03 04
Aleutian Islands
Pribilof Islands
North Pacific Rim
Kodiak Islands

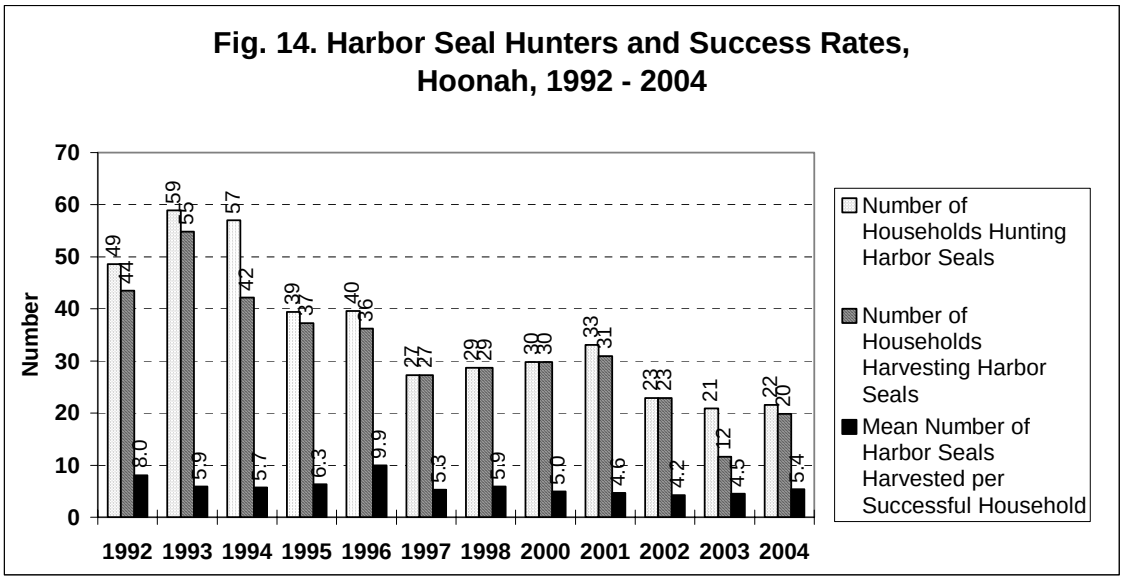


Fig. 14. Harbor Seal Hunters and Success Rates,
Hoonah, 1992 - 2004
Number
70
60
50
40
30
20
10
0
1992 1993 1994 1995 1996 1997 1998 2000 2001 2002 2003 2004
Number of Households Hunting Harbor Seals
Number of Households Harvesting Harbor Seals
Mean Number of Harbor Seals Harvested per Successful Household

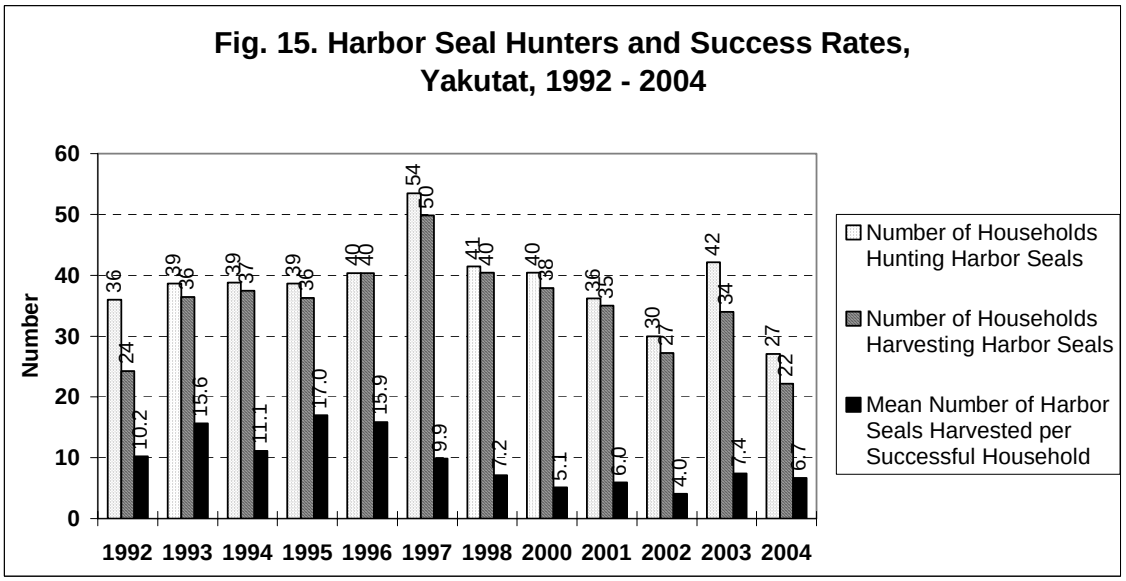


Fig. 15. Harbor Seal Hunters and Success Rates,
Yakutat, 1992 - 2004
Number
60
50
40
30
20
10
0
1992 1993 1994 1995 1996 1997 1998 2000 2001 2002 2003 2004
Number of Households Hunting Harbor Seals
Number of Households Harvesting Harbor Seals
Mean Number of Harbor Seals Harvested per Successful Household

Fig. 16. Harbor Seal Hunters and Success Rates, Sitka, 1992 - 2004

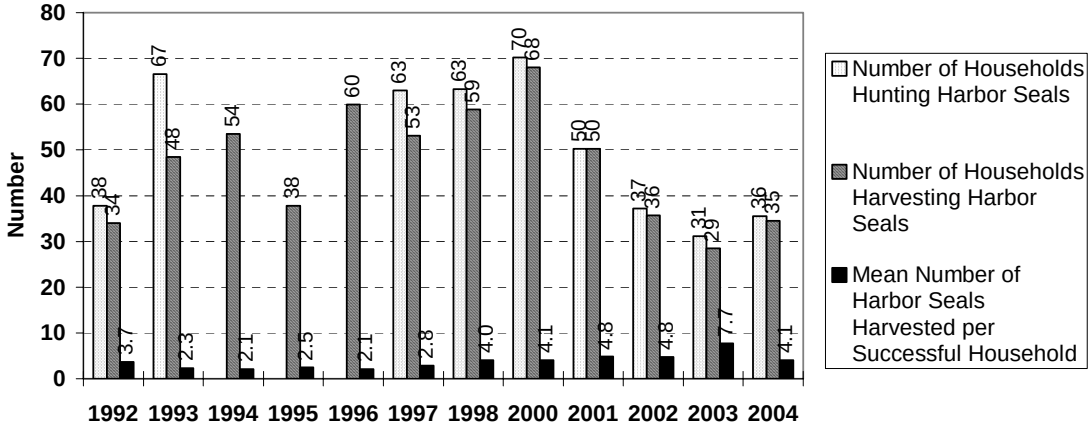


Fig. 17. Harbor Seal Hunters and Success Rates, Tatitlek, 1992 - 2004

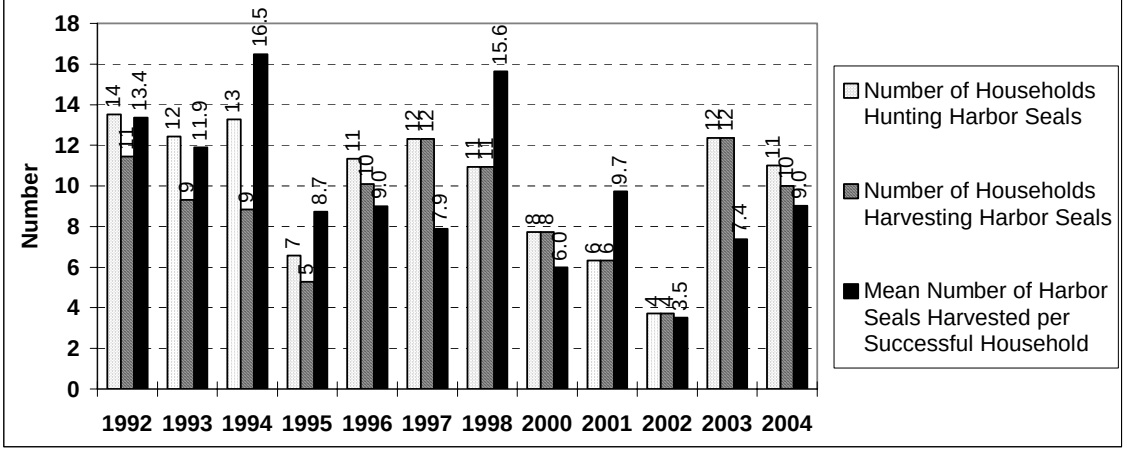


Fig. 18. Harbor Seal Hunters and Success Rates, Nanwalek, 1992 - 2004

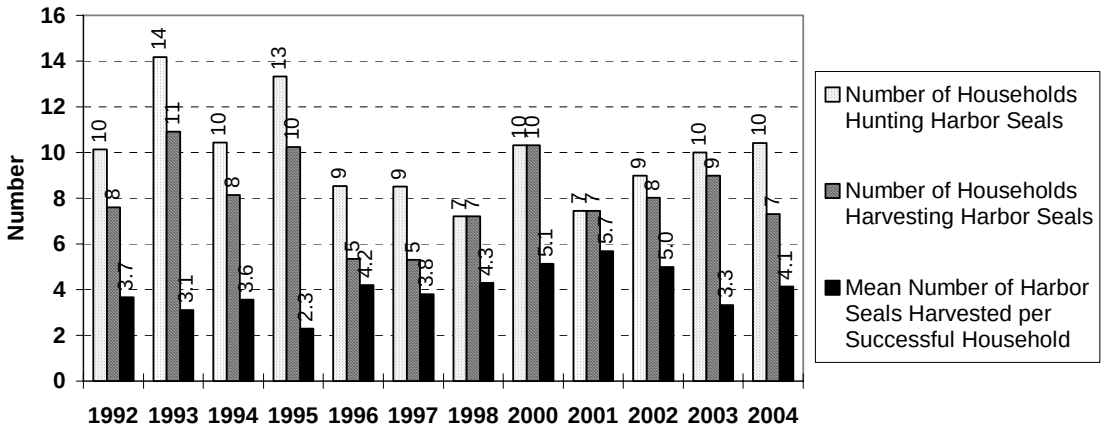


Fig. 19. Harbor Seal Hunters and Success Rates, Old Harbor, 1992 - 2004

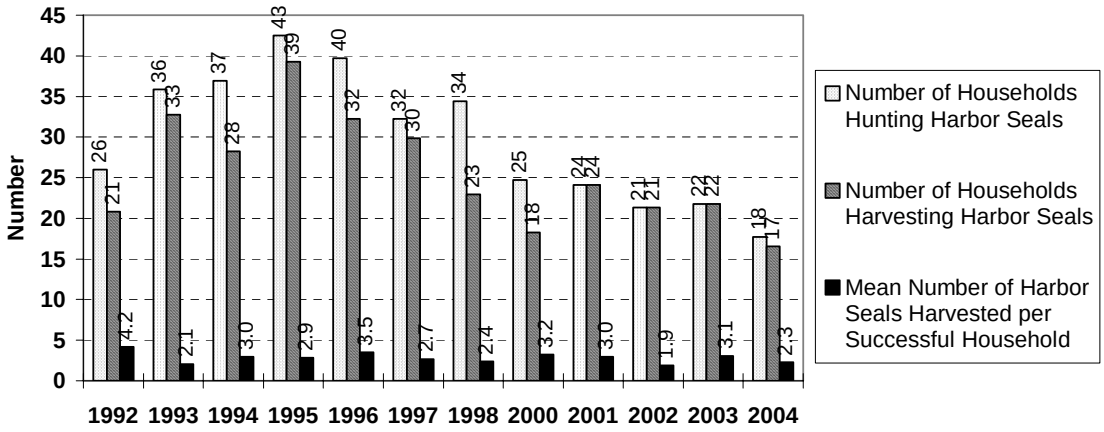
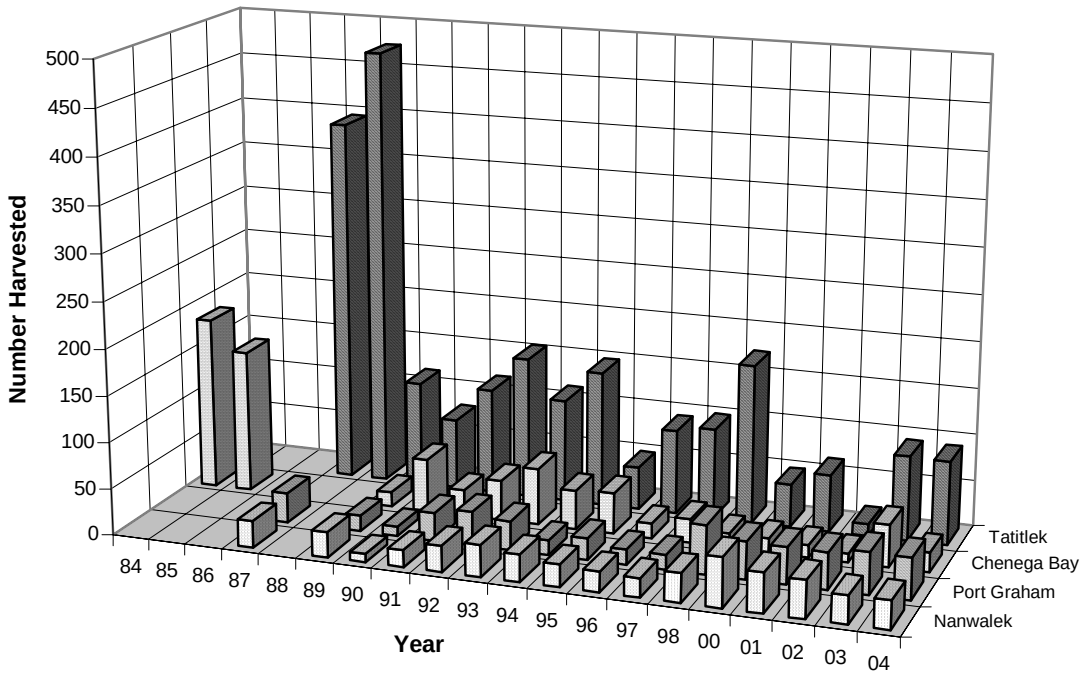
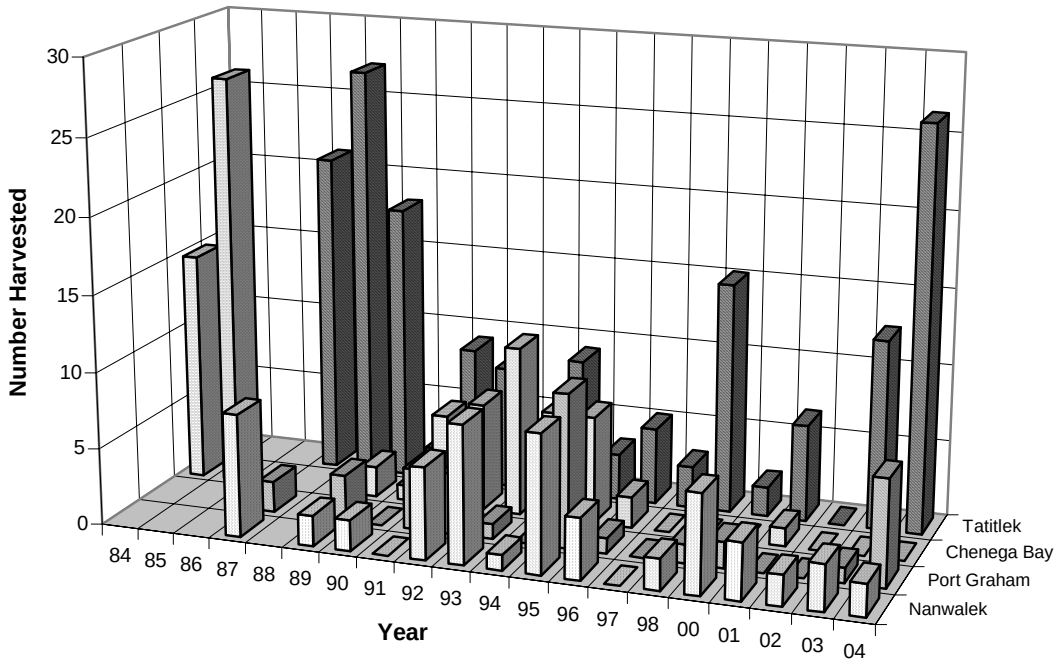


Figure 20
Change in Harbor Seal Harvests,
North Pacific Rim Communities



HARBOR SEAL HARVESTS				
Year	Nanwalek	Port Graham	Chenega Bay	Tatitlek
84			186	
85			154	
86				
87	29	32		393
88				473
89	27	17	16	113
90	9	10	57	76
91	18	30	28	114
92	28	36	43	153
93	34	31	61	111
94	29	16	42	146
95	24	23	44	46
96	22	16	16	91
97	20	16	26	97
98	31	52	16	171
00	53	40	15	46
01	42	39	13	62
02	40	39	9	13
03	30	45	45	91
04	30	44	21	90

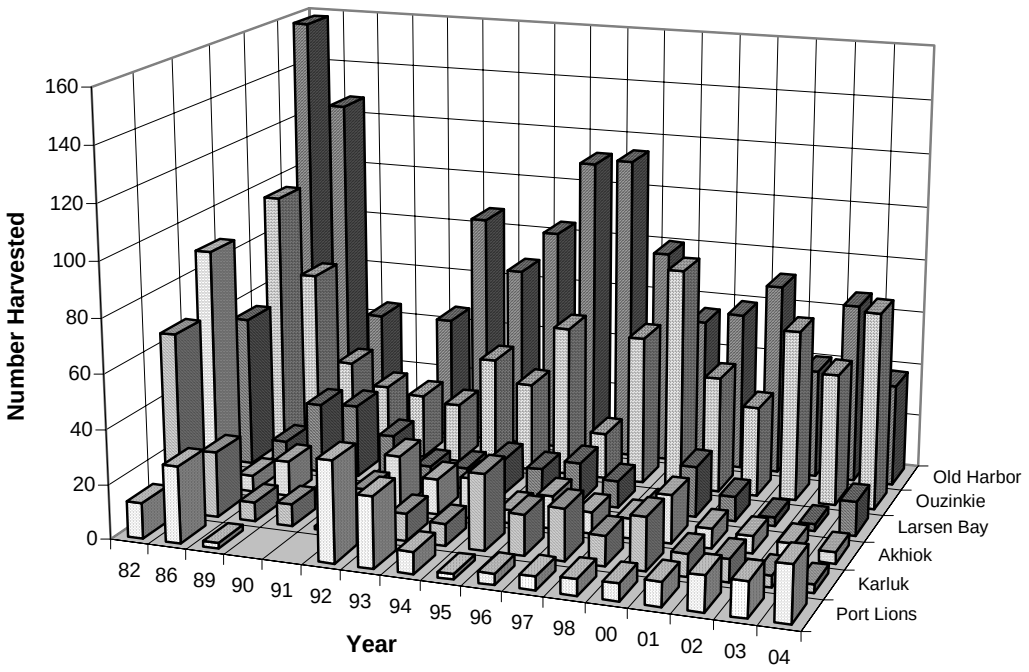
Figure 21
Change in Sea Lion Harvests,
North Pacific Rim Communities



SEA LION HARVESTS

Year	Nanwalek	Port Graham	Chenega Bay	Tatitlek
84			15	
85			27	
86				
87	8	2		21
88				27
89	2	3	2	18
90	2	0	1	2
91	0	4	6	9
92	6	4	7	8
93	9	1	11	4
94	1	0	7	9
95	9	10	7	3
96	4	1	2	5
97	0	0	0	3
98	2	1	0	15
00	6	2	0	2
01	4	0	1	6
02	2	0	0	0
03	3	1	0	12
04	2	7	0	26

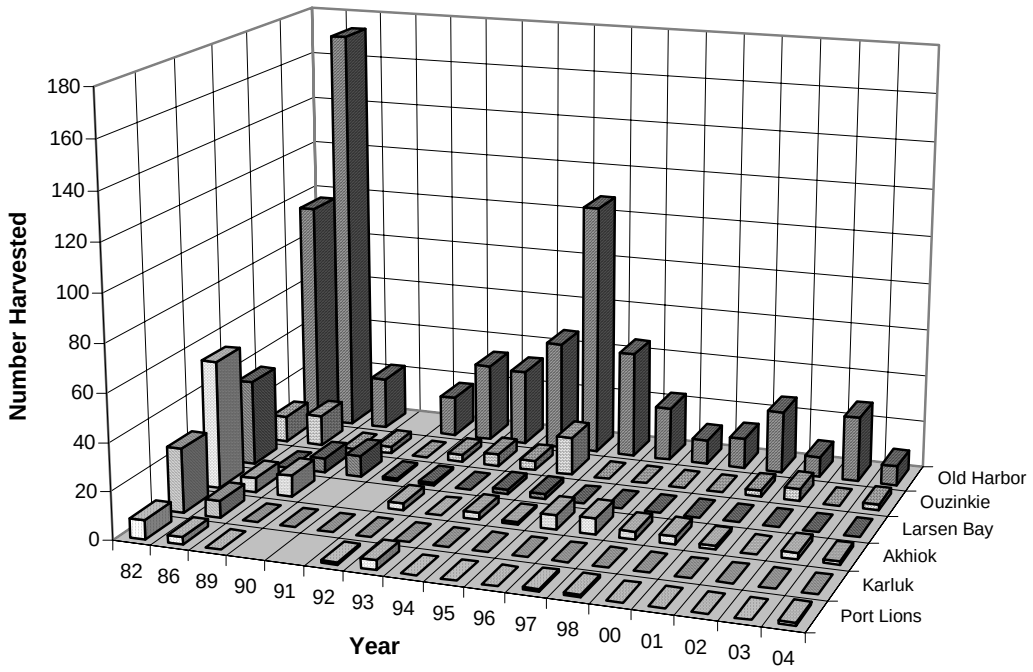
Figure 22
Change in Harbor Seal Harvests,
Kodiak Island Communities



HARBOR SEAL HARVESTS

	Port Lions	Karluk	Akhiok	Larsen Bay	Ouzinkie	Old Harbor
82	13	66	89	56	96	158
86	28	24	6	10	67	127
89	2	7	13	26	34	45
90		8		27	26	
91		1		17	24	46
92	37	17	20	7	22	87
93	26	10	13	8	41	68
94	8	8	15	13	33	84
95	2	28	5	11	56	112
96	4	15	12	15	17	114
97	5	19	8	10	55	80
98	6	11	7	2	82	55
00	6	20	18	19	43	59
01	9	8	7	9	33	71
02	13	8	6	3	63	40
03	13	4	5	3	49	67
04	21	3	4	13	73	38

Figure 23
Change in Sea Lion Harvests,
Kodiak Island Communities



SEA LION HARVESTS

	Port Lions	Karluk	Akhiok	Larsen Bay	Ouzinkie	Old Harbor
82	8	27	54	36	11	96
86	3	7	6	0	13	173
89	0	0	9	6	0	22
90		0		9	3	
91		0		1	0	17
92	1	0	3	1	3	33
93	4	0	0	0	5	32
94	0	0	3	2	4	46
95	0	0	1	2	16	107
96	0	0	6	0	0	45
97	1	0	7	0	0	23
98	1	0	3	0	0	10
00	0	0	3	0	0	13
01	0	0	1	0	3	26
02	0	0	0	0	5	9
03	0	0	3	0	0	28
04	1	0	1	0	3	8

Figure 24.
Percentage Annual Changes in Harvest, Struck and Lost, and Total Take, Harbor Seals, 1992 - 2004

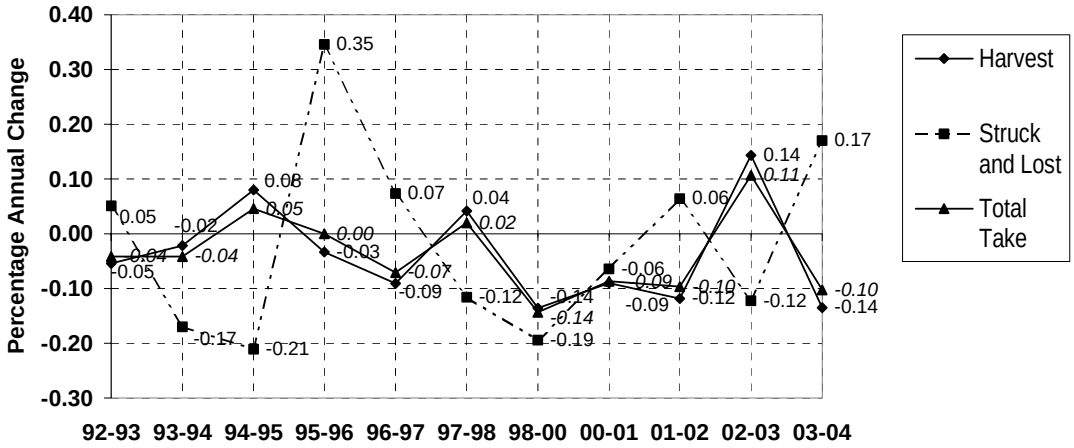
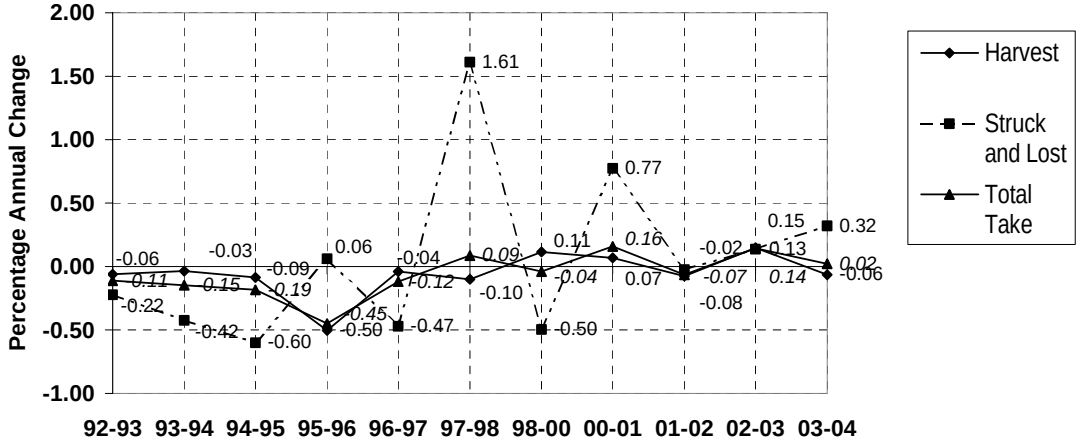


Figure 25.
Percentage Annual Changes in Harvest, Struck and Lost, and Total Take, Sea Lions, 1992 - 2004



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, as shown in Table 16. In 2004, about 68 percent of surveyed households did not hunt harbor seals and about 94 percent did not hunt sea lions. Among hunters, there also was substantial specialization in productivity (see Fig. 7). A relatively small core of highly-productive hunters reported taking most of the subsistence kills during 2004, similar to previous years. About 30 percent of the hunters reported taking about 72 percent of all harbor seals and about 69 percent of all sea lions. Highly-productive hunters commonly distributed marine mammal products to other households through non-commercial networks of sharing and trade.

DISCUSSION

Somewhat different trends characterize the subsistence takes of harbor seals and sea lions since 1992. At the state 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, 1992-2004

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 2004 (1,822 seals), the lowest take since surveys began in 1992 (Table 4, Fig. 9). Comparing consecutive paired survey years since 1992, harbor seal takes have declined seven of the years, increased

three years, and remained unchanged one year (Fig. 24). This indicates a declining trend in the annual subsistence takes of harbor seals in Alaska. The total take of harbor seals in 2004 (1,822 seals) was 36.2 percent lower than takes in 1992 (2,854 seals) and 10.2 percent lower than takes in 2003 (2,030 seals) (Fig. 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) (see Fig. 5).

Harbor seal populations in Alaska are divided into three stocks for biological assessment – the Southeast Alaska stock, Gulf of Alaska stock, and Bering Sea stock. Harbor seal takes from the three stocks are shown in Figure 11. Total annual takes from the Southeast Alaska stock showed an overall decline of 49.3 percent from 1992 to 2004 (from 1,666 to 845 seals). Takes from the Gulf of Alaska stock in 2004 (858 seals) was about 9.3 percent lower than the take in 1992 (946 seals), rebounding from a low of 688 seals taken in 2002. Takes from the Bering Sea stock have declined from 243 seals in 1992 to 119 seals in 2004, a decrease of about 51.0 percent. 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 a downward direction, the trends are less clear than for the Southeast region.

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 (Fig. 8, Table 16). Between-year fluctuations in harvests at the community level are influenced in part by local conditions such as food needs, prey availability, and personal circumstances of hunters. A closer examination of trends in some selected communities (Hoonah, Nanwalek, Old Harbor, Sitka, Tatitlek, and Yakutat) allows for us to see the interplay of factors like numbers of hunters, hunting success, and harvest rates in particular locations (Figs. 14-19). For example, at Hoonah and Yakutat, two major harbor seal hunting communities (Fig. 14-15), there have been fewer hunters and lower harvest rates per successful hunter in recent years, resulting in

declining numbers of seals harvested. At Sitka (Fig. 16) we find fewer harbor seal hunters, but relatively stable harvest rates per successful hunter in recent years, so that the total harvest in 2004 (141 seals) was about 38.4 percent lower than the previous five-year average (229 seals). As shown in Fig. 17, seal hunting at Tatitlek rebounded in 2003 and 2004 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 2004 were at their lowest points since 1992 (Fig. 19). No clear trends are evident in the harvests, hunters, and harvest rates at Nanwalek (Fig. 18). These case communities suggest that a complex of local factors are influencing harvest patterns at the local level.

For harvests in two 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 ten-year survey period compared with harvests recorded prior to 1989, the year of the *Exxon Valdez* oil spill (Fig. 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 2004 surveys at Tatitlek (90 seals) and Chenega Bay (21 seals) in Prince William Sound recorded a rebound from 2002, the poorest seal harvests on record in those two communities (13 and 9 seals respectively). For Kodiak Island villages, the 151 seals harvested in 2004 were substantially fewer than those recorded a decade before -- 478 seals (1982) and 262

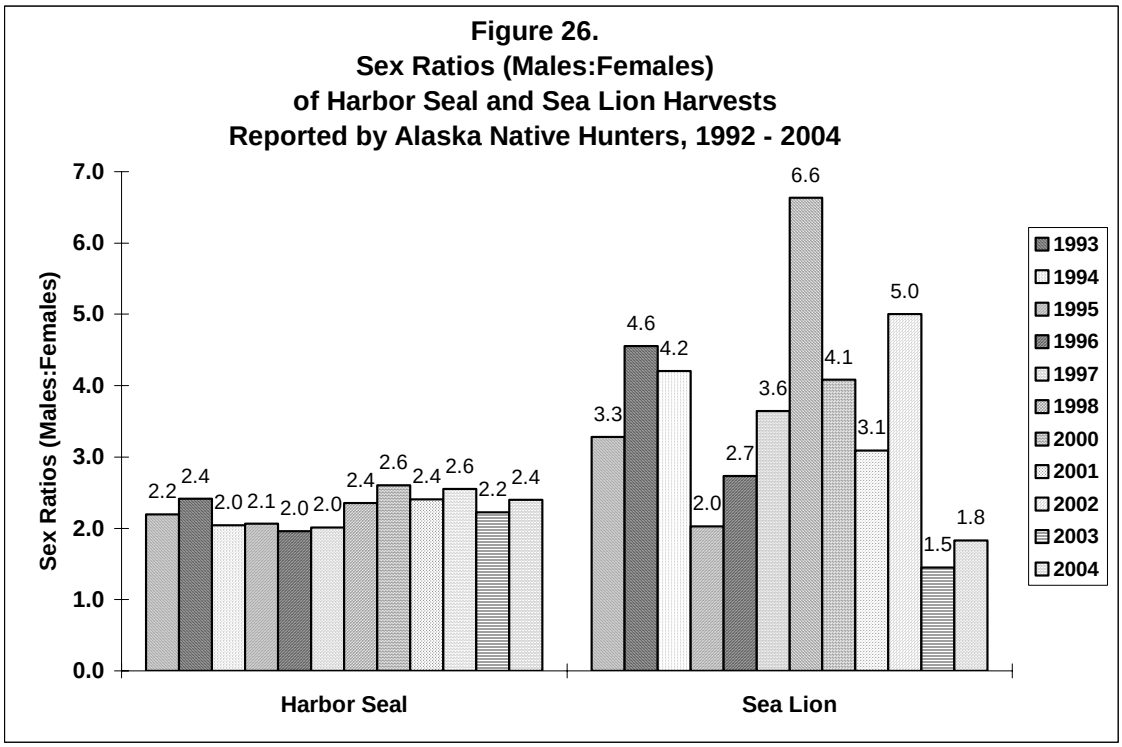


Figure 26.
Sex Ratios (Males:Females)
of Harbor Seal and Sea Lion Harvests
Reported by Alaska Native Hunters, 1992 - 2004
Sex Ratios (Males:Females)
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
2.2 2.4 2.0 2.1 2.0 2.0 2.4 2.6 2.4 2.6 2.2 2.4
3.3 4.6 4.2 2.0 2.7 3.6 6.6 4.1 3.1 5.0 1.5 1.8
Harbor Seal
Sea Lion
1993
1994
1995
1996
1997
1998
2000
2001
2002
2003
2004

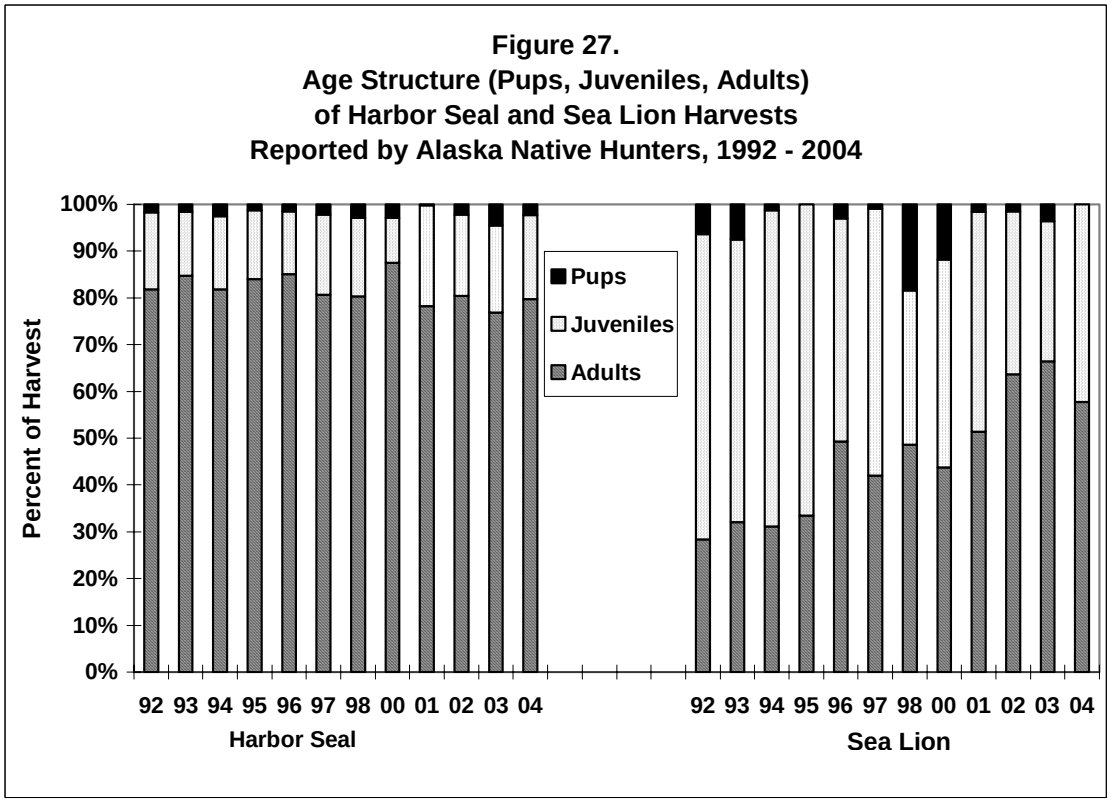


Figure 27.
Age Structure (Pups, Juveniles, Adults)
of Harbor Seal and Sea Lion Harvests
Reported by Alaska Native Hunters, 1992 - 2004
Percent of Harvest
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Pups
Juveniles
Adults
92 93 94 95 96 97 98 00 01 02 03 04
Harbor Seal
92 93 94 95 96 97 98 00 01 02 03 04
Sea Lion

Figure 28. Percentage of Harbor Seal Harvests Reported as Male Seals by Hunters, 1992 - 2004

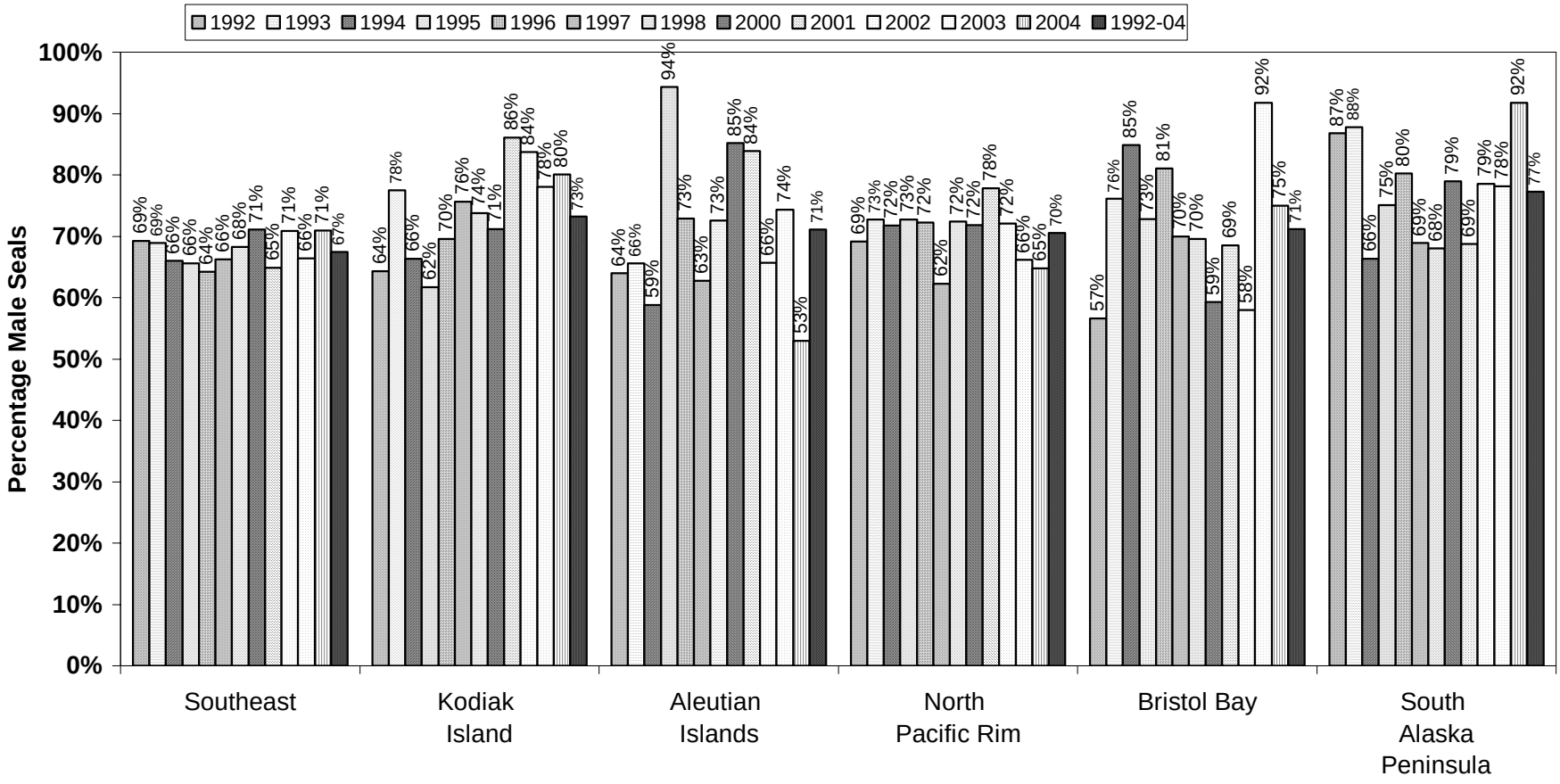


Figure 29. Percentage of Harbor Seal Harvests Reported as Juvenile Seals by Hunters, 1992 - 2004

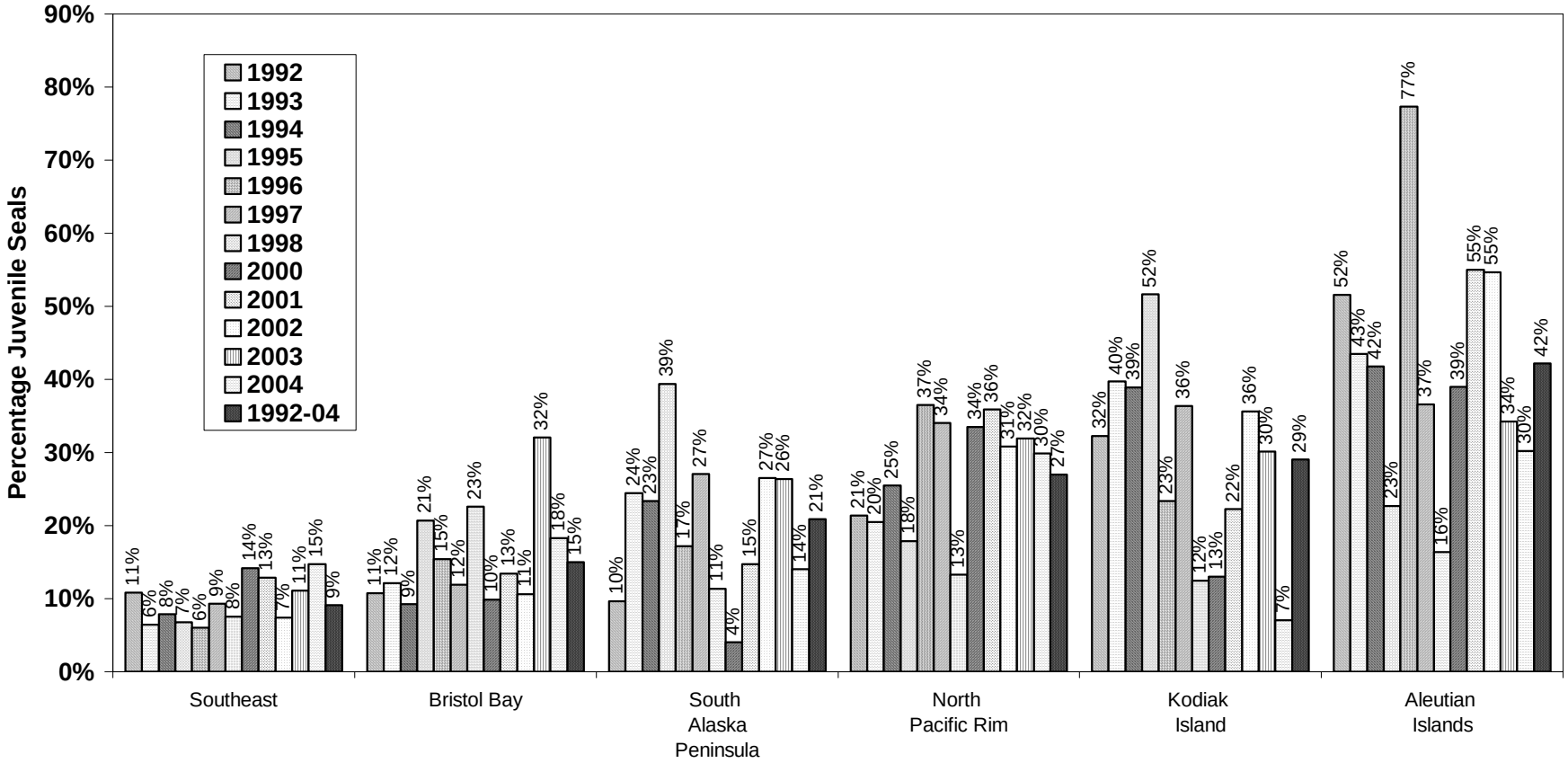


Fig. 30. Adult and Juvenile Harbor Seal Harvests by Month, January 1992 - December 2004, Southeast Alaska

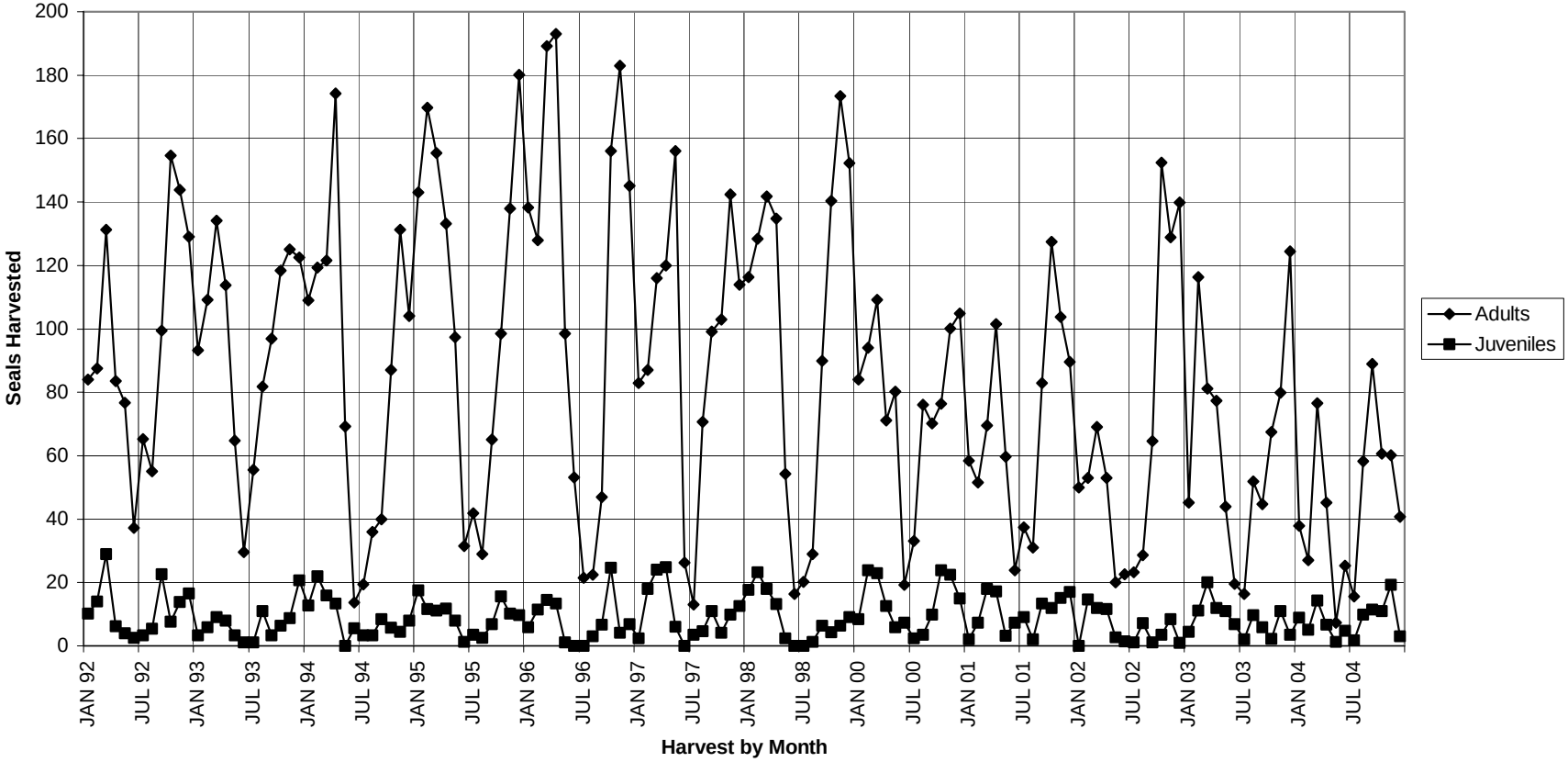


Fig. 31. Adult and Juvenile Harbor Seal Harvests by Month, January 1992 - December 2004, Kodiak Island Region

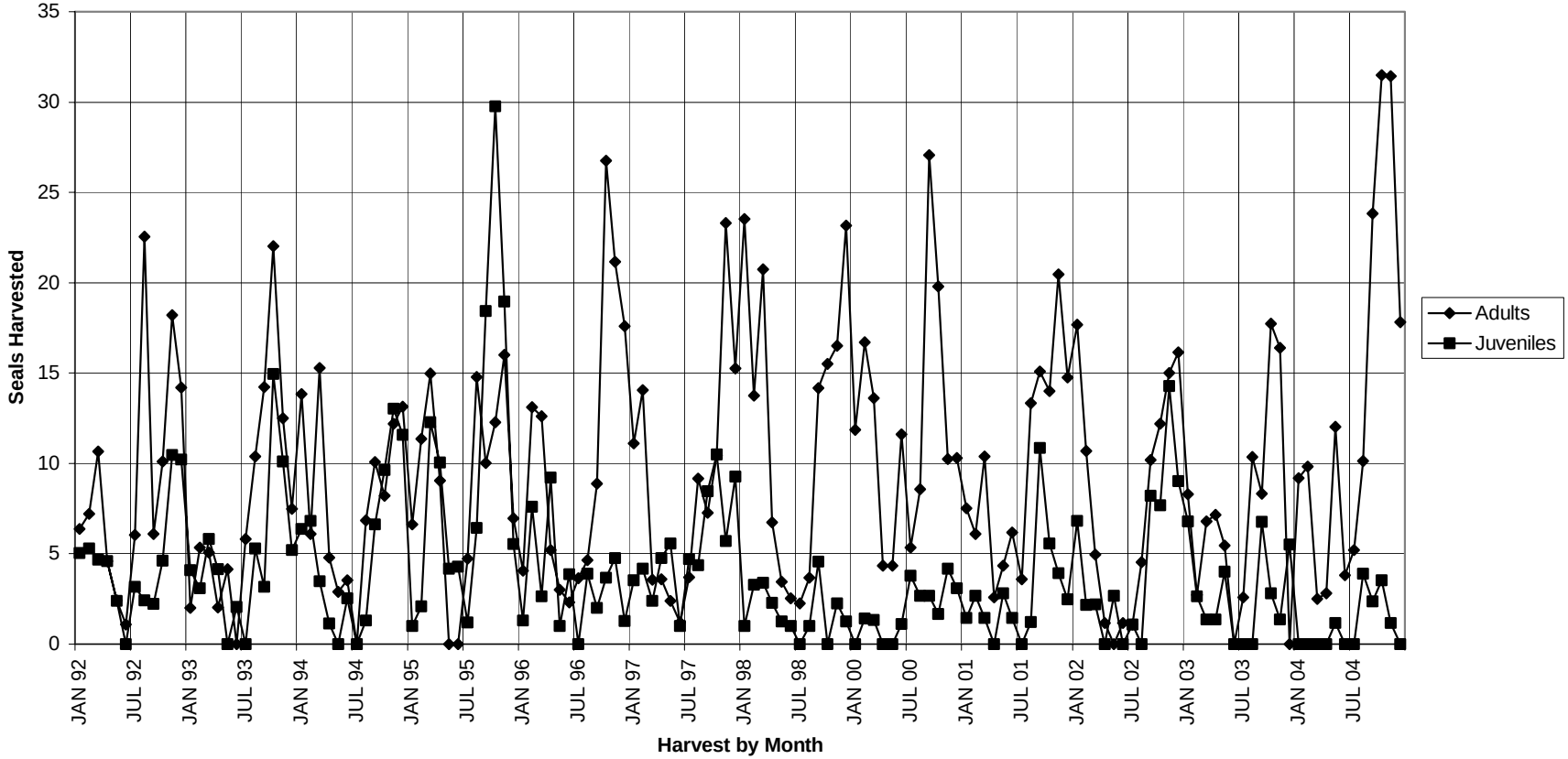
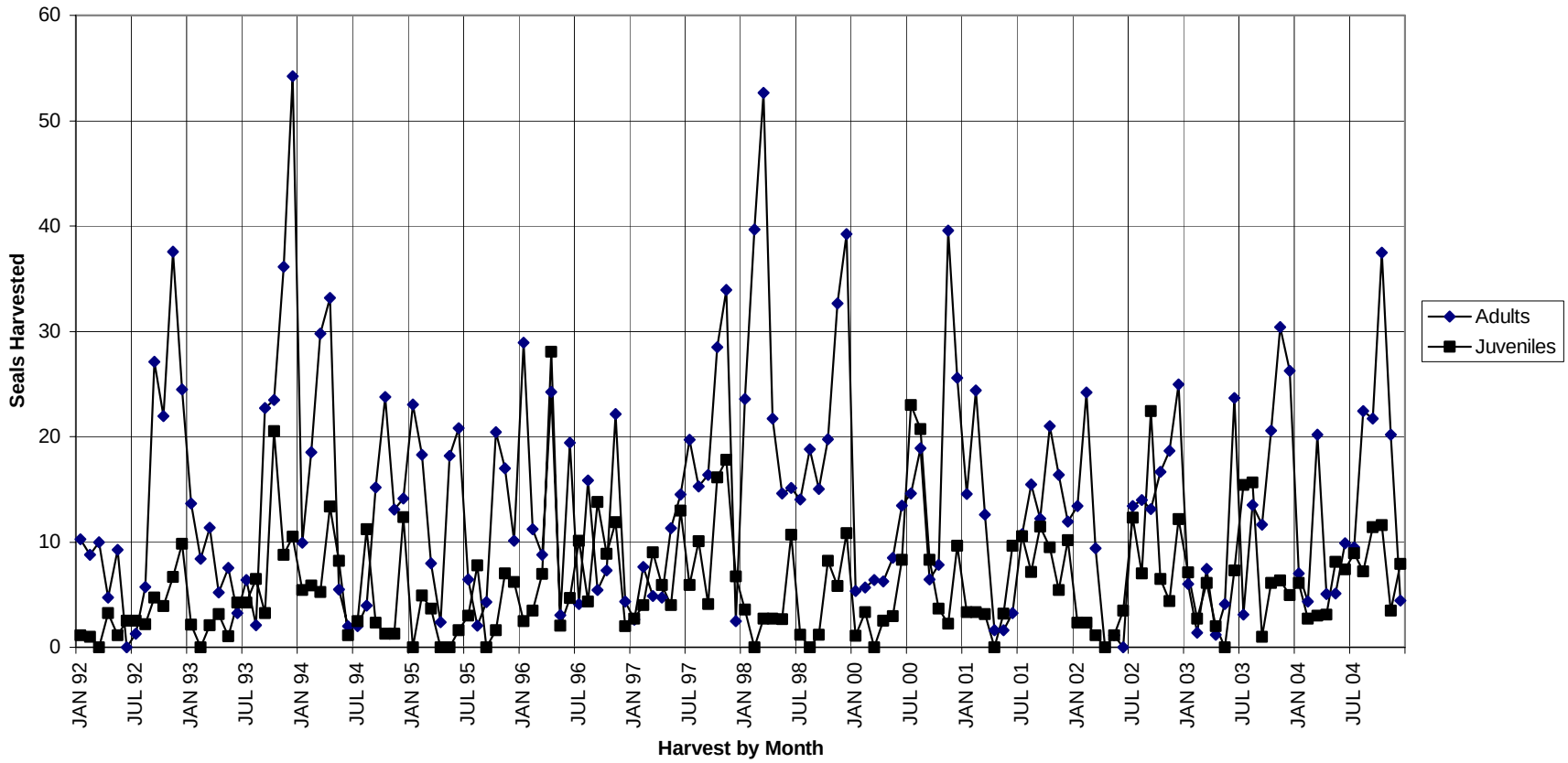


Fig. 32. Adult and Juvenile Harbor Seal Harvests by Month, January 1992 - December 2004, North Pacific Rim Region



seals (1986) (Fig. 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 during 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 1992-2004 in those areas may represent observations at relatively low points of 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.

In contrast with the declining takes of harbor seals from 1992-2004, there has been remarkable consistency in the reported 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 kills of known sex, male to female sex ratios have been similar across survey years for harbor seals – 2.2 males to 1 female (1992), 2.4 (1993), 2.0 (1994), 2.1 (1995), 2.0 (1996), 2.0 (1997), 2.4 (1998), 2.6 (2000), 2.4 (2001), 2.6 (2002), 2.2 (2003), and 2.4 (2004) (Fig. 26). At the statewide level, age composition also is similar between years (Fig. 27): hunters continued to report harvesting primarily adult harbor seals (from 77 to 85 percent of the annual harvest), with smaller proportions of juvenile seals (10 to 22 percent) and pups (1 to 5 percent).

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 (Fig. 28). Counting harvested animals whose sex was reported between 1992-2004, all regions showed more male seals to female seals harvested – Southeast (67 percent males), North Pacific Rim (70 percent males), Kodiak Island (73 percent males), South Alaska Peninsula (77 percent males), Aleutian Islands (71 percent males), and North and South Bristol Bay (71 percent 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 two factors – sex segregation in seal groups, and 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).

The age composition of the subsistence harvest of harbor seals varies substantially between regions and presents a more complex picture than sex ratios (Fig. 29). Since 1992, hunters have been asked to classify the seal harvest into three categories – "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 percent 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 percent of adult weight (Bigg 1969: 21; Pitcher and Caulkins 1979:30).

Based on hunter reports, the percentages of juveniles in the harvest differed substantially between regions during 1992-2004 (Fig. 29). Of all the seals harvested during 1992-2004 in the Southeast Region, only 9 percent were reported to be juvenile seals. Bristol Bay seal harvests also had a relatively low juvenile composition of 15

percent juvenile seals. Other regions had substantially greater proportions of juvenile seals in their annual harvests, including South Alaska Peninsula (21 percent), North Pacific Rim (27 percent), Kodiak Islands (29 percent), and the Aleutian Islands (42 percent). 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 Fig. 29, the reported age compositions of the seal harvests have seen substantial between-year changes for some regions. In 1998 and 2000, the proportions of juvenile seals fell substantially in the Kodiak Islands (to 12 percent and 13 percent) and the South Alaska Peninsula (to 11 percent and 4 percent). In both areas, the lower juvenile proportions resembled those of the Southeast and Bristol Bay regions. In the North Pacific Rim and Aleutian Islands, the juvenile proportions fell markedly in 1998, but rose again in 2000 to the relatively higher levels of previous years.

The reasons for these dramatic single-year 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 two 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 three regions are illustrated in Figures 30 to 32, which present adult and juvenile harbor seal harvests by month from January 1992 through December 2004 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 Fig. 29, but allows for a combination of the calendar years to better visualize trends. A comparison of the Southeast harvest (Fig. 30) with the Kodiak harvest (Fig. 31) clearly illustrates the difference in the proportion of juveniles in the harvests – in Southeast Alaska juveniles are a relatively low part of the harvest compared with Kodiak Island where as many juveniles are taken as adults on some years. The Kodiak Island harvest time series (Fig. 31) shows that, compared with other years, there were lower juvenile harvests relative to adults in July 1996 through June 1997 as well as November 1997 through December 1998 and January 2000 through December 2000. By contrast, in the neighboring North Pacific Rim (see Fig. 31), juvenile harvests were high relative to adults in July 1996 through 1997, low from January 1998 through December, and high from January through October 2000. In the Southeast series, the proportion of juveniles increased during 2000, 2001, 2003, and 2004 (see Fig. 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.

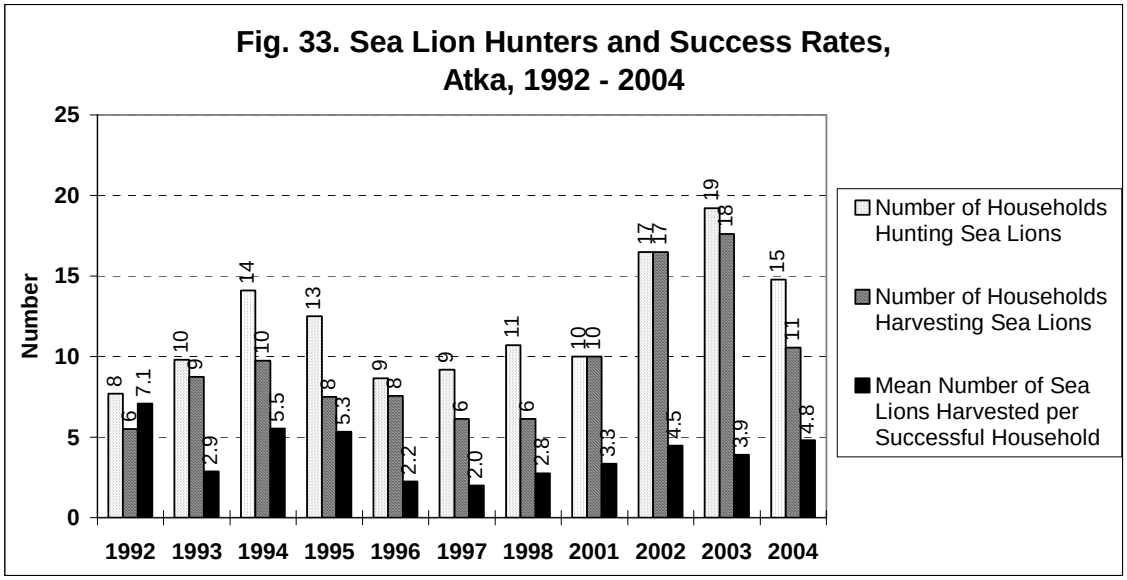


Fig. 33. Sea Lion Hunters and Success Rates,
Atka, 1992 - 2004
Number
25
20
15
10
5
0
1992
1993
1994
1995
1996
1997
1998
2001
2002
2003
2004
Number of Households Hunting Sea Lions
Number of Households Harvesting Sea Lions
Mean Number of Sea Lions Harvested per Successful Household

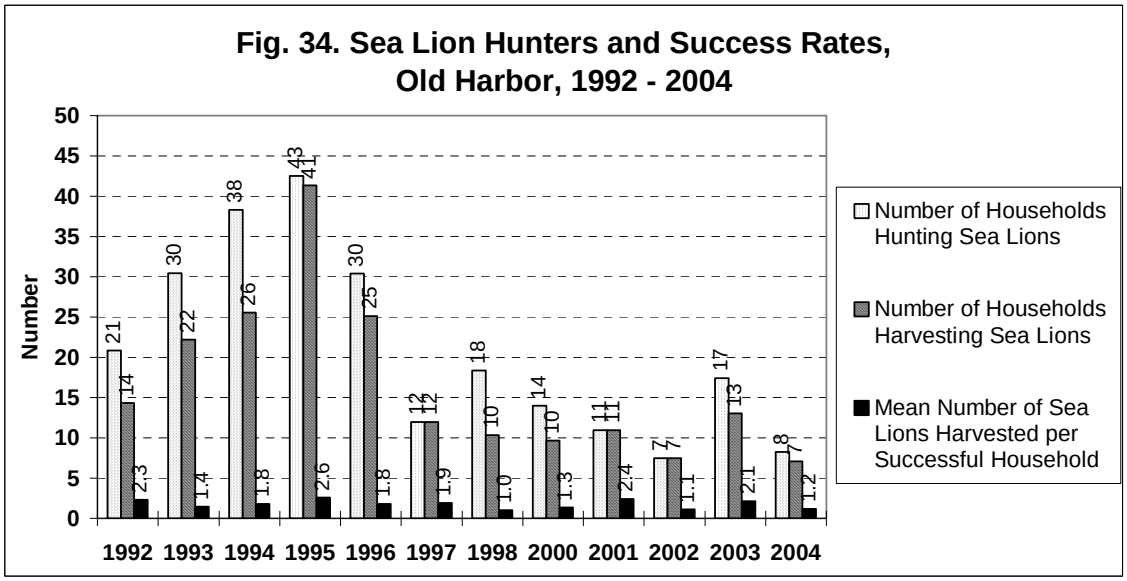


Fig. 34. Sea Lion Hunters and Success Rates,
Old Harbor, 1992 - 2004
Number
50
45
40
35
30
25
20
15
10
5
0
1992
1993
1994
1995
1996
1997
1998
2000
2001
2002
2003
2004
Number of Households Hunting Sea Lions
Number of Households Harvesting Sea Lions
Mean Number of Sea Lions Harvested per Successful Household

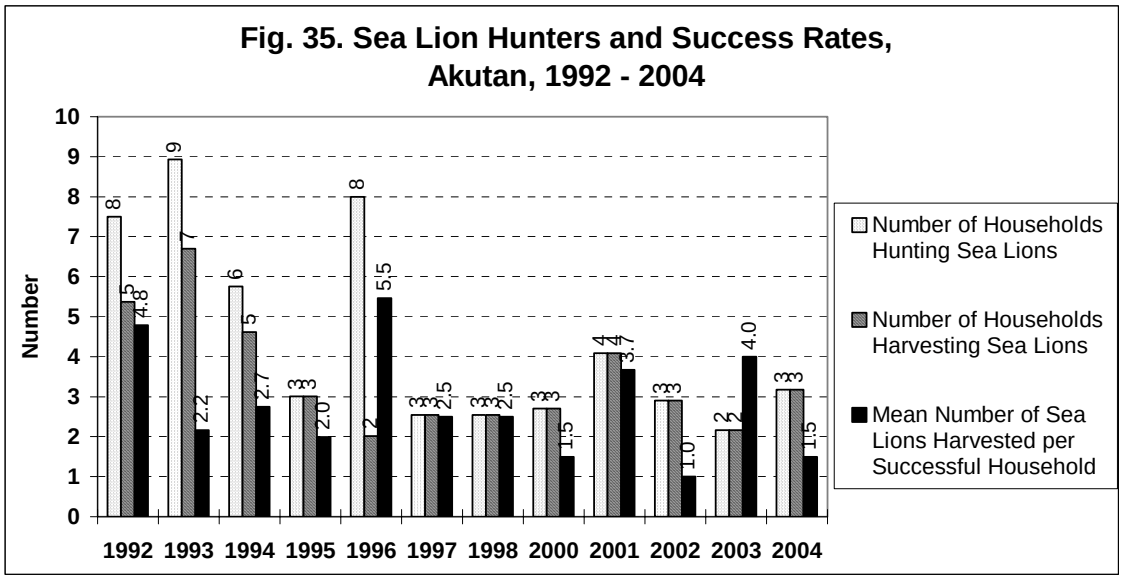


Fig. 35. Sea Lion Hunters and Success Rates,
Akutan, 1992 - 2004
Number
0
1
2
3
4
5
6
7
8
9
10
1992
1993
1994
1995
1996
1997
1998
2000
2001
2002
2003
2004
Number of Households Hunting Sea Lions
Number of Households Harvesting Sea Lions
Mean Number of Sea Lions Harvested per Successful Household

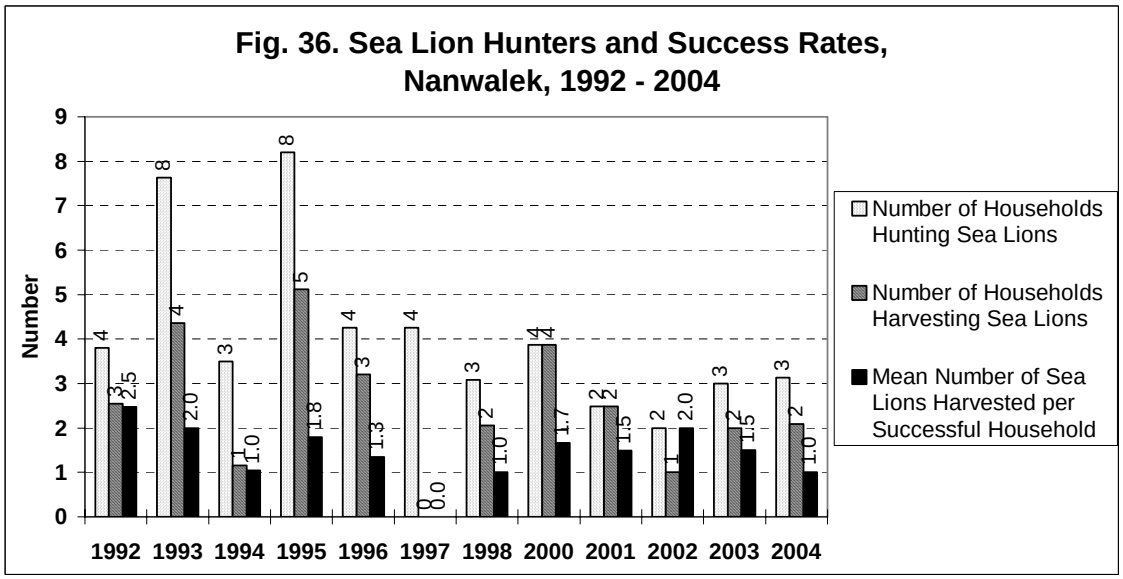


Fig. 36. Sea Lion Hunters and Success Rates,
Nanwalek, 1992 - 2004
Number
0
1
2
3
4
5
6
7
8
9
1992
1993
1994
1995
1996
1997
1998
2000
2001
2002
2003
2004
Number of Households Hunting Sea Lions
Number of Households Harvesting Sea Lions
Mean Number of Sea Lions Harvested per Successful Household

Sea Lion Subsistence Trends, 1992-2004

Total subsistence takes of sea lions by Alaska Natives sharply declined from 1992 to 1995, with takes leveling off between 1996 to 2004 (Fig 10). The lowest recorded sea lion takes (164 animals) occurred in 1997. The subsistence take of 216 sea lions in 2004 was 39 percent of the subsistence take in 1992 (549 animals).

At the regional level, notable declines in sea lion takes have been reported by hunters from the Pribilof Islands (see Fig. 13), where total sea lion takes fell from 297 animals (1992) to 32 animals (2004), a decline of 89 percent. The sea lion take in the Aleutian Islands area increased to 96 animals in 2004 from a low of 37 animals in 1998, but was below the 135 animals taken in 1992. In Kodiak Island areas, the sea lion take in 2004 (17 animals) represented a 71 percent decrease from 1992 (58 animals) (Fig. 13).

In the North Pacific Rim and Kodiak Island regions, longer time series are available (see Figs. 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 2004, no sea lions were reported harvested in Chenega Bay, while 26 were harvested at Tatitlek (Fig. 21). Harvests at Nanwalek and Port Graham show substantial yearly variation (between one and nineteen animals). Nine sea lions were harvested between the two communities in 2004. 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 harvests were 14 sea lions in 2004, with none reported for two of six villages (Fig. 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.

Declines in sea lion takes documented over the last seven years appear to be associated with drops in hunter numbers, as illustrated in Fig. 8. Sea lion hunters fell

from a five-year average of 184 hunters (1992-96) to 99 hunters (1998-2003). Successful sea lion hunters fell from a five-year average of 123 hunters (1992-96) to 74 hunters (1998-2003). 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. As shown in Fig. 33, the numbers of households hunting sea lions at Atka increased from 8 to 15 households from 1992 to 2004, and the numbers of households successfully harvesting sea lions increased from 6 to 11 households. 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. Recent sea lion harvests of 69 animals in 2003 and 51 animals in 2004 were greater than the five-year average of 28 animals reported during 1994-1998.

Hunting patterns at Old Harbor display somewhat different trends (Fig. 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 2004 there were 7 successful sea lion hunters at Old Harbor, harvesting 8 animals, the lowest reported since 1992. The harvest rate (1.2 animals per successful hunter in 2004) was toward the lower end of previous ranges (1.0 to 2.6 animals).

At Akutan, the numbers of households successfully harvesting sea lions have ranged between two and seven since 1992 (Fig. 35). Mean harvests per successful hunter have ranged from 1.0 to 5.5 sea lions. Sea lion harvests in 2004 (5 animals) and success rates (1.5 animals per successful hunter) were toward the lower range of recent years. At Nanwalek, the numbers of households successfully harvesting sea lions have ranged between one and five since 1992 (Fig. 36). Mean harvests per successful hunter

have ranged from 1.0 to 2.5 sea lions. In 2004, sea lion harvests (2 animals) and success rates (1.0 animals per successful hunter) were in the low range at Nanwalek.

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 percent of the Aleutian Island hunters and 55.3 percent 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 must invest more time and effort in pursuit of the sea lions harvested.

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 constrictive effects of these factors on sea lion harvests appear to have played out. After 1997, the numbers of sea lion hunters and levels of sea lion takes have leveled off. During the most recent five survey years, the numbers of successful sea lion hunters have shown considerable consistency, ranging between 70 and 78 hunters. Similarly, sea lion takes during the most recent five survey years have ranged between 171 and 216 animals, with the high end of this range occurring in the most recent survey year. All together, the information from surveyed hunters indicates a stabilization and perhaps even a slight increase in the takes of sea lions over the last several years for the state as a whole.

Table 19
Subsistence Harbor Seal Takes by Alaska Natives by Region, 1992 - 2004

Region	1992 Harvest	1992 Struck and Lost	1992 Take	1993 Harvest	1993 Struck and Lost	1993 Take	1994 Harvest	1994 Struck and Lost	1994 Take	1995 Harvest	1995 Struck and Lost	1995 Take	1996 Harvest	1996 Struck and Lost	1996 Take
Southeast Alaska	1,476.8	189.5	1,666.2	1,425.0	190.0	1,615.0	1,348.5	151.4	1,499.9	1,719.1	170.9	1,890.0	1,641.6	216.3	1,857.8
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	289.0	22.1	311.1
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	64.3	8.8	73.1
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	185.2	4.9	190.1
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	86.3	5.0	91.3
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	55.0	15.2	70.2
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	0.0	0.0	0.0
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	63.8	44.2	108.0
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	29.6	10.0	39.6
Alaska Total	2,501.0	353.4	2,854.4	2,365.3	371.1	2,736.4	2,312.8	308.0	2,620.8	2,498.5	243.3	2,741.8	2,414.7	326.6	2,741.3

Region	1997 Harvest	1997 Struck and Lost	1997 Take	1998 Harvest	1998 Struck and Lost	1998 Take	2000 Harvest	2000 Struck and Lost	2000 Take	2001 Harvest	2001 Struck and Lost	2001 Take	2002 Harvest	2002 Struck and Lost	2002 Take
Southeast Alaska	1,343.4	224.1	1,567.4	1,414.0	202.4	1,616.4	1,209.7	151.4	1,361.1	1,019.9	155.9	1,175.7	877.0	129.8	1,006.8
North Pacific Rim	295.0	12.8	307.7	393.5	41.4	434.9	289.9	29.8	319.7	279.9	20.1	300.0	251.9	35.2	287.1
U. Kenai-Cook Inlet	101.7	8.8	110.5	79.2	13.5	92.7	79.2	13.5	92.7	91.2	2.7	93.9	75.2	8.0	83.2
Kodiak Island	189.8	18.3	208.2	174.0	3.7	177.7	185.9	7.3	193.2	155.6	4.8	160.4	152.1	10.2	162.3
S. AK Peninsula	68.3	12.1	80.4	79.9	7.5	87.4	65.4	18.4	83.8	68.7	16.3	85.1	70.0	19.4	89.4
Aleutian Islands	70.5	6.3	76.9	45.8	3.8	49.6	79.0	10.5	89.5	120.1	12.5	132.6	63.4	2.4	65.9
Pribilof Islands	0.0	0.0	0.0	4.6	0.0	4.6	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0
South Bristol Bay	107.8	66.3	174.1	62.2	34.3	96.5	55.4	17.6	73.0	52.9	19.8	72.7	79.7	36.8	116.6
North Bristol Bay	18.8	2.1	20.9	33.2	3.6	36.8	10.4	1.1	11.6	8.8	1.2	10.0	15.5	7.4	23.0
Alaska Total	2,195.3	350.8	2,546.2	2,286.4	310.3	2,596.7	1,974.8	249.6	2,224.4	1,797.1	234.3	2,031.4	1,585.0	249.2	1,834.2

Region	2003 Harvest	2003 Struck and Lost	2003 Take	2004 Harvest	2004 Struck and Lost	2004 Take
Southeast Alaska	945.1	123.7	1,068.8	743.0	102.3	845.3
North Pacific Rim	348.8	25.3	374.1	322.7	43.2	365.9
U. Kenai-Cook Inlet	90.8	15.0	105.8	56.6	13.4	69.9
Kodiak Island	172.7	13.0	185.6	172.2	15.7	188.0
S. AK Peninsula	91.1	13.5	104.5	77.9	10.1	88.0
Aleutian Islands	97.7	11.4	109.1	118.0	28.0	146.0
Pribilof Islands	0.0	0.0	0.0	0.0	0.0	0.0
South Bristol Bay	35.6	15.3	50.9	58.5	31.2	89.6
North Bristol Bay	29.8	1.4	31.2	17.6	11.7	29.3
Alaska Total	1,811.6	218.5	2,030.1	1,566.4	255.6	1,822.0

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2005.

Table 20
Subsistence Sea Lion Takes by Alaska Natives by Region, 1992 - 2004

Region	1992 Harvest	1992 Struck and Lost	1992 Take	1993 Harvest	1993 Struck and Lost	1993 Take	1994 Harvest	1994 Struck and Lost	1994 Take	1995 Harvest	1995 Struck and Lost	1995 Take	1996 Harvest	1996 Struck and Lost	1996 Take
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	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	12.4	1.1	13.5
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	3.3	0.0	3.3
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	53.9	6.3	60.2
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	3.7	1.3	5.0
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	46.5	11.3	57.9
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	32.2	14.2	46.4
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	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	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	152.1	34.1	186.2

Region	1997 Harvest	1997 Struck and Lost	1997 Take	1998 Harvest	1998 Struck and Lost	1998 Take	2000 Harvest	2000 Struck and Lost	2000 Take	2001 Harvest	2001 Struck and Lost	2001 Take	2002 Harvest	2002 Struck and Lost	2002 Take
Southeast Alaska	0.0	0.0	0.0	3.3	4.4	7.6	2.3	0.0	2.3	0.0	0.0	0.0	7.0	0.0	7.0
North Pacific Rim	4.5	1.4	5.8	20.0	8.5	28.5	11.7	5.0	16.7	14.7	0.0	14.7	5.5	0.0	5.5
U. Kenai-Cook Inlet	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
Kodiak Island	33.3	4.9	38.2	14.5	3.3	17.8	18.5	0.0	18.5	32.8	2.2	35.0	16.1	0.0	16.1
S. AK Peninsula	8.3	0.0	8.3	9.2	0.0	9.2	13.8	0.0	13.8	10.2	1.4	11.6	3.9	4.2	8.1
Aleutian Islands	50.7	1.3	51.9	31.6	5.5	37.0	71.2	4.8	76.0	78.1	19.6	97.7	87.4	17.7	105.1
Pribilof Islands	45.5	10.4	55.9	52.7	25.4	78.1	29.1	14.2	43.3	19.0	19.0	38.0	24.0	19.0	43.0
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	0.0	0.0	0.0
North Bristol Bay	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
Alaska Total	145.7	17.9	163.7	131.2	47.0	178.2	146.6	24.0	170.6	156.2	42.2	198.4	143.9	40.9	184.7

Region	2003 Harvest	2003 Struck and Lost	2003 Take	2004 Harvest	2004 Struck and Lost	2004 Take
Southeast Alaska	2.3	4.6	6.9	4.6	7.2	11.8
North Pacific Rim	19.1	5.6	24.7	38.0	15.8	53.9
U. Kenai-Cook Inlet	0.0	0.0	0.0	0.0	0.0	0.0
Kodiak Island	30.3	5.7	36.0	13.5	3.5	17.0
S. AK Peninsula	2.5	2.4	5.0	3.9	0.0	3.9
Aleutian Islands	88.5	18.5	107.0	70.9	25.1	96.0
Pribilof Islands*	22.3	9.7	32.0	22.3	9.7	32.0
South Bristol Bay	0.0	0.0	0.0	0.0	0.0	0.0
North Bristol Bay	0.0	0.0	0.0	1.2	0.0	1.2
Alaska Total	165.0	46.5	211.5	154.4	61.4	215.7

Sources: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2005; Lestenkof and Zavadil (2001); Lestenkof, Zavadil, and Williams (2002); and Zavadil et al (2003).

** Harvest Estimates for both St. Paul and St. George are based on 2003 harvest estimates*

Table 21
Subsistence Harbor Seal Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2004

	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
Community	**1992**			**1993**			**1994**			**1995**		
SOUTHEAST ALASKA												
Angoon	125.1	28.9	154.0	56.6	9.9	66.5	66.9	21.1	88.0	80.9	9.7	90.6
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
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
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
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
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
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
Kasaan	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--
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
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
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
Metlakatla	1.3	0.0	1.3	--	--	--	--	--	--	--	--	--
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
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
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
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
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
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
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
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
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
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
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
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
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
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
UPPER KENAI-COOK INLET												
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
Homer	--	--	--	4.8	0.0	4.8	12.0	0.0	12.0	0.0	0.0	0.0
Kenai	33.3	0.0	33.3	20.0	0.0	20.0	--	--	--	--	--	--
Tyonek	1.1	0.0	1.1	--	--	--	--	--	--	--	--	--
KODIAK ISLAND												
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
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
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
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
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
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
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

Table 21 (Continued)
Subsistence Harbor Seal Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2004

	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
Community	**1996**			**1997**			**1998**			**2000**		
SOUTHEAST ALASKA												
Angoon	71.0	2.0	73.0	51.0	7.1	58.1	53.0	2.0	55.0	64.3	6.1	70.4
Craig	48.2	8.0	56.3	62.0	7.5	69.5	52.7	5.2	57.9	35.0	3.0	38.0
Haines	41.1	3.4	44.6	36.8	10.5	47.3	30.7	10.6	41.3	17.5	0.0	17.5
Hoonah	359.7	48.6	408.3	143.8	9.9	153.8	169.7	19.8	189.6	147.9	16.0	163.9
Hydaburg	15.0	0.0	15.0	11.5	0.0	11.5	14.4	0.0	14.4	14.4	0.0	14.4
Juneau	32.8	1.3	34.1	99.0	0.0	99.0	90.4	15.3	105.7	59.9	3.5	63.4
Kake	86.4	0.0	86.4	68.4	7.6	76.0	123.0	6.1	129.1	101.7	3.6	105.3
Kasaan	--	--	--	--	--	--	--	--	--	--	--	--
Ketchikan	25.0	0.0	25.0	27.4	4.3	31.8	26.7	0.0	26.7	111.7	0.0	111.7
Klawock	69.8	0.0	69.8	94.0	0.0	94.0	83.0	0.0	83.0	67.1	0.0	67.1
Klukwan	6.3	0.0	6.3	1.1	0.0	1.1	10.5	0.0	10.5	18.0	0.0	18.0
Metlakatla	--	--	--	--	--	--	--	--	--	--	--	--
Pelican	15.4	0.0	15.4	14.5	0.0	14.5	15.8	2.4	18.2	7.5	0.0	7.5
Petersburg	19.5	2.4	21.9	11.8	4.3	16.2	23.9	9.3	33.2	20.7	7.2	27.9
Saxman	4.9	0.0	4.9	11.0	0.0	11.0	19.6	0.0	19.6	45.6	1.9	47.5
Sitka	126.8	4.1	130.9	150.6	3.7	154.3	237.6	29.4	267.0	276.8	41.1	317.8
Wrangell	79.3	22.2	101.5	68.8	29.2	98.0	174.0	30.0	204.0	28.5	12.0	40.5
Yakutat	640.3	124.1	764.5	491.5	139.9	631.5	289.0	72.3	361.3	193.3	56.8	250.1
NORTH PACIFIC RIM												
Chenega Bay	16.0	3.0	19.0	25.7	0.0	25.7	15.6	0.0	15.6	15.0	0.0	15.0
Cordova	122.2	8.6	130.8	120.8	0.0	120.8	79.1	9.3	88.3	87.8	14.0	101.8
Nanwalek	22.4	0.0	22.4	20.2	0.0	20.2	30.9	1.0	31.9	52.9	3.9	56.8
Port Graham	15.5	2.2	17.7	15.8	3.2	19.0	52.3	3.6	55.9	40.2	1.7	41.9
Seldovia	3.0	0.0	3.0	2.8	2.8	5.5	3.0	0.0	3.0	2.0	0.0	2.0
Seward	5.6	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	4.0
Tatitlek	90.8	3.8	94.6	97.2	6.8	104.0	171.1	19.2	190.2	46.3	1.9	48.2
Valdez	13.5	4.5	18.0	12.5	0.0	12.5	41.7	8.3	50.0	41.7	8.3	50.0
UPPER KENAI-COOK INLET												
Anchorage	28.9	6.2	35.1	23.6	1.2	24.8	43.8	7.5	51.3	43.8	7.5	51.3
Homer	10.5	1.5	12.0	41.1	2.6	43.7	22.8	6.0	28.8	22.8	6.0	28.8
Kenai	22.9	1.1	24.0	35.0	5.0	40.0	12.6	0.0	12.6	12.6	0.0	12.6
Tyonek	2.0	0.0	2.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
KODIAK ISLAND												
Akhiok	12.0	1.0	13.0	7.9	0.0	7.9	7.3	0.0	7.3	17.6	0.0	17.6
Karluk	15.1	0.0	15.1	19.0	0.0	19.0	11.0	0.0	11.0	19.5	1.5	21.0
Kodiak City	9.0	0.0	9.0	13.0	0.0	13.0	11.0	0.0	11.0	21.6	4.8	26.4
Larsen Bay	15.0	0.0	15.0	9.8	4.2	13.9	1.7	0.0	1.7	18.6	0.0	18.6
Old Harbor	113.5	1.3	114.8	80.0	4.8	84.8	55.1	1.1	56.2	59.1	0.0	59.1
Ouzinkie	16.7	2.6	19.3	55.2	9.4	64.6	82.0	2.5	84.5	43.0	1.0	44.0
Port Lions	4.0	0.0	4.0	5.0	0.0	5.0	6.0	0.0	6.0	6.4	0.0	6.4

Table 21 (Continued)
Subsistence Harbor Seal Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2004

Community	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
	2001			2002			2003			2004		
SOUTHEAST ALASKA												
Angoon	85.0	5.2	90.2	72.7	2.2	74.9	54.9	0.0	54.9	47.4	3.2	50.5
Craig	54.0	4.0	58.0	38.9	5.7	44.6	28.0	6.0	34.0	29.7	5.5	35.2
Haines	19.3	1.1	20.4	19.6	26.2	45.8	12.0	0.0	12.0	7.0	0.0	7.0
Hoonah	143.4	13.2	156.7	96.4	6.0	102.4	52.2	10.4	62.6	106.2	9.0	115.2
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
Juneau	29.9	1.6	31.5	17.2	1.4	18.7	30.3	24.8	55.0	13.6	9.1	22.7
Kake	85.6	10.7	96.4	98.2	10.6	108.7	52.1	0.0	52.1	96.2	0.0	96.2
Kasaan	--	--	--	--	--	--	--	--	--	--	--	--
Ketchikan	12.7	0.0	12.7	123.5	1.2	124.6	78.0	0.0	78.0	60.0	5.0	65.0
Klawock	71.5	0.0	71.5	24.0	0.0	24.0	59.8	0.0	59.8	29.2	7.6	36.8
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
Metlakatla	--	--	--	--	--	--	--	--	--	--	--	--
Pelican	9.0	0.0	9.0	1.8	0.0	1.8	1.8	0.0	1.8	1.8	0.0	1.8
Petersburg	16.0	22.0	38.0	45.0	18.0	63.0	9.6	7.2	16.8	10.3	8.3	18.6
Saxman	12.9	0.0	12.9	25.5	3.0	28.5	12.0	0.0	12.0	5.0	0.0	5.0
Sitka	241.3	32.8	274.1	169.7	19.3	189.0	220.4	5.2	225.6	141.2	19.3	160.5
Wrangell	16.0	29.0	45.0	20.0	9.0	29.0	68.0	18.7	86.7	33.3	8.3	41.7
Yakutat	208.8	36.2	245.0	110.3	27.2	137.5	251.7	51.5	303.2	147.7	27.1	174.8
NORTH PACIFIC RIM												
Chenega Bay	13.0	0.0	13.0	9.3	1.2	10.5	44.9	14.6	59.5	21.1	1.1	22.2
Cordova	102.7	5.8	108.5	102.7	5.8	108.5	77.7	2.7	80.5	77.7	2.7	80.5
Nanwalek	42.3	1.2	43.5	40.0	12.0	52.0	30.0	3.0	33.0	30.2	12.5	42.7
Port Graham	39.4	8.3	47.6	39.4	8.3	47.6	45.0	0.0	45.0	44.4	2.8	47.2
Seldovia	3.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0
Seward	0.0	0.0	0.0	3.5	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
Tatitlek	61.6	4.7	66.3	13.1	1.9	14.9	91.1	0.0	91.1	90.2	23.1	113.3
Valdez	18.0	0.0	18.0	44.0	6.0	50.0	60.0	5.0	65.0	58.0	0.0	58.0
UPPER KENAI-COOK INLET												
Anchorage	45.3	2.7	48.0	39.8	8.0	47.7	55.0	15.0	70.0	46.8	13.4	60.2
Homer	21.0	0.0	21.0	23.5	0.0	23.5	10.8	0.0	10.8	3.7	0.0	3.7
Kenai	24.9	0.0	24.9	9.0	0.0	9.0	20.0	0.0	20.0	6.0	0.0	6.0
Tyonek	0.0	0.0	0.0	3.0	0.0	3.0	5.0	0.0	5.0	0.0	0.0	0.0
KODIAK ISLAND												
Akhiok	7.2	0.0	7.2	6.3	0.0	6.3	5.5	0.0	5.5	4.2	1.4	5.6
Karluk	8.3	0.0	8.3	8.3	0.0	8.3	4.3	0.0	4.3	3.1	0.0	3.1
Kodiak City	17.5	0.0	17.5	17.5	0.0	17.5	32.0	6.0	38.0	21.0	4.5	25.5
Larsen Bay	9.0	1.1	10.2	3.3	0.0	3.3	2.5	0.0	2.5	12.5	0.0	12.5
Old Harbor	71.3	0.0	71.3	40.5	0.0	40.5	66.7	2.9	69.6	37.8	5.9	43.7
Ouzinkie	33.4	2.6	36.0	63.4	10.2	73.6	48.8	4.1	52.8	73.0	3.9	76.9
Port Lions	8.8	1.1	9.9	13.0	0.0	13.0	12.9	0.0	12.9	20.6	0.0	20.6

Table 22
Subsistence Harbor Seal Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2004

	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
Community	**1992**			**1993**			**1994**			**1995**		
SOUTH ALASKA PENINSULA												
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
Chignik Lagoon	4.0	0.0	4.0	4.3	1.1	5.3	0.0	1.0	1.0	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
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
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
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
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
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
ALEUTIAN ISLANDS												
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
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
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
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
PRIBILOF ISLANDS												
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
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
SOUTH BRISTOL BAY												
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
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
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
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
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
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
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
NORTH BRISTOL 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
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
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
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
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
Twin Hills	--	--	--	--	--	--	--	--	--	--	--	--

Table 22 (Continued)
Subsistence Harbor Seal Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2004

Community	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
	1996			1997			1998			2000		
SOUTH ALASKA PENINSULA												
Chignik Bay	1.0	0.0	1.0	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	1.3	1.3	2.7	0.0	0.0	0.0	1.2	0.0	1.2
Chignik Lake	3.5	0.0	3.5	2.2	1.1	3.3	1.9	0.0	1.9	3.3	0.0	3.3
False Pass	13.9	0.0	13.9	8.0	0.0	8.0	17.8	1.3	19.1	2.5	1.2	3.7
Ivanof Bay	13.2	0.0	13.2	9.0	1.8	10.8	9.0	1.8	10.8	3.2	0.0	3.2
King Cove	14.0	5.0	19.0	16.9	2.1	19.1	18.2	0.0	18.2	19.3	2.1	21.4
Nelson Lagoon	--	--	--	--	--	--	--	--	--	--	--	--
Perryville	20.5	0.0	20.5	21.7	5.7	27.4	21.0	4.4	25.4	21.0	15.0	36.0
Sand Point	20.2	0.0	20.2	9.1	0.0	9.1	12.0	0.0	12.0	15.0	0.0	15.0
ALEUTIAN ISLANDS												
Adak	--	--	--	--	--	--	--	--	--	--	--	--
Akutan	8.0	7.0	15.0	14.0	3.8	17.8	14.0	3.8	17.8	25.7	5.4	31.1
Atka	22.7	2.2	24.8	26.0	1.5	27.5	16.8	0.0	16.8	16.8	0.0	16.8
Nikolski	4.0	1.0	5.0	4.0	1.0	5.0	2.2	0.0	2.2	2.2	0.0	2.2
Unalaska	20.3	5.1	25.4	26.5	0.0	26.5	12.7	0.0	12.7	34.3	5.1	39.4
PRIBILOF ISLANDS												
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
St. Paul	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	4.6	0.0	0.0	0.0
SOUTH BRISTOL BAY												
Egegik	2.8	0.0	2.8	1.6	0.0	1.6	0.0	0.0	0.0	4.0	3.0	7.0
King Salmon	9.5	2.4	11.9	9.7	0.0	9.7	5.2	0.0	5.2	3.3	9.8	13.0
Levelock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	2.8
Naknek	16.2	7.5	23.7	24.8	6.5	31.2	15.7	7.8	23.5	16.3	0.0	16.3
Pilot Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	2.1	7.4
Port Heiden	34.3	34.3	68.6	69.2	50.0	119.2	36.1	18.6	54.7	19.6	0.0	19.6
South Naknek	1.0	0.0	1.0	2.5	9.8	12.3	5.2	7.9	13.1	4.1	2.7	6.8
NORTH BRISTOL BAY												
Aleknagik	0.0	0.0	0.0	1.2	0.0	1.2	3.1	0.0	3.1	2.5	0.0	2.5
Clark's Point	0.0	0.0	0.0	1.3	0.0	1.3	1.3	0.0	1.3	0.0	0.0	0.0
Dillingham	0.0	0.0	0.0	1.2	0.0	1.2	8.5	0.0	8.5	0.0	0.0	0.0
Manokotak	2.4	3.6	6.0	0.0	0.0	0.0	4.0	0.0	4.0	1.2	0.0	1.2
Togiak	3.9	0.0	3.9	6.7	0.0	6.7	14.1	1.4	15.5	5.1	1.1	6.3
Twin Hills	23.3	6.5	29.8	8.4	2.1	10.5	2.2	2.2	4.4	1.6	0.0	1.6

Table 22 (Continued)
Subsistence Harbor Seal Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2004

Community	2001 Harvest	2001 Struck and Lost	2001 Take	2002 Harvest	2002 Struck and Lost	2002 Take	2003 Harvest	2003 Struck and Lost	2003 Take	2004 Harvest	2004 Struck and Lost	2004 Take
SOUTH ALASKA PENINSULA												
Chignik Bay	0.0	0.0	0.0	1.3	0.0	1.3	2.8	0.0	2.8	0.0	0.0	0.0
Chignik Lagoon	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.1
Chignik Lake	1.3	1.3	2.6	2.9	0.0	2.9	8.9	3.0	11.8	6.7	3.3	10.0
False Pass	2.5	1.2	3.7	2.5	0.0	2.5	2.8	0.0	2.8	2.8	0.0	2.8
Ivanof Bay	7.0	1.4	8.4	7.0	1.4	8.4	--	--	--	--	--	--
King Cove	22.0	4.0	26.0	7.5	3.0	10.5	11.0	4.4	15.4	32.3	0.0	32.3
Nelson Lagoon	--	--	--	--	--	--	--	--	--	--	--	--
Perryville	24.0	6.9	30.9	33.8	15.0	48.8	51.3	6.1	57.4	20.0	5.6	25.6
Sand Point	10.9	1.6	12.4	15.0	0.0	15.0	14.3	0.0	14.3	15.0	1.3	16.3
ALEUTIAN ISLANDS												
Adak	--	--	--	--	--	--	4.0	1.0	5.0	0.0	0.0	0.0
Akutan	13.6	2.7	16.4	10.2	0.0	10.2	10.8	4.3	15.2	9.5	1.6	11.1
Atka	63.3	6.7	70.0	36.0	0.0	36.0	57.6	1.6	59.2	73.9	16.9	90.8
Nikolski	5.3	0.0	5.3	3.0	1.0	4.0	11.0	3.0	14.0	6.0	1.0	7.0
Unalaska	37.8	3.2	41.0	14.3	1.4	15.7	14.3	1.4	15.7	28.6	8.6	37.1
PRIBILOF ISLANDS												
St. George	0.0	1.0	1.0	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	0.0	0.0	0.0
SOUTH BRISTOL BAY												
Egegik	6.3	1.0	7.3	2.2	1.1	3.2	4.0	1.0	5.0	1.0	1.0	2.1
King Salmon	8.5	6.1	14.6	2.9	0.0	2.9	7.3	6.1	13.4	5.0	3.3	8.3
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
Naknek	15.1	4.3	19.4	26.2	12.5	38.7	10.5	0.0	10.5	15.2	3.8	19.0
Pilot Point	2.0	2.0	4.0	2.0	2.0	4.0	2.7	2.7	5.3	1.9	5.6	7.4
Port Heiden	10.1	3.4	13.4	30.4	18.3	48.7	10.0	5.6	15.6	20.0	13.0	33.0
South Naknek	11.0	3.0	14.0	16.0	3.0	19.0	1.1	0.0	1.1	15.4	4.4	19.8
NORTH BRISTOL BAY												
Aleknagik	0.0	1.2	1.2	0.0	2.2	2.2	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
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
Manokotak	3.5	0.0	3.5	0.0	0.0	0.0	2.2	0.0	2.2	4.0	0.0	4.0
Togiak	5.3	0.0	5.3	13.9	3.6	17.4	22.0	0.0	22.0	6.9	9.7	16.6
Twin Hills	0.0	0.0	0.0	1.7	1.7	3.3	5.6	1.4	7.0	6.8	1.9	8.8

Table 23
Subsistence Sea Lion Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2004

	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
Community	**1992**			**1993**			**1994**			**1995**		
SOUTHEAST ALASKA												
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
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
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
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
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
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
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
Kasaan	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
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
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
Metlakatla	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
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
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
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
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
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
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
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
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
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
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
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
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
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
UPPER KENAI-COOK INLET												
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
Homer	--	--	--	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	--	--	--	--	--	--
Tyonek	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--
KODIAK ISLAND												
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
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
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
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
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
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
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

Table 23 (Continued)
Subsistence Sea Lion Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2004

	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
Community	**1996**			**1997**			**1998**			**2000**		
SOUTHEAST ALASKA												
Angoon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0
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
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
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
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
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
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
Kasaan	--	--	--	--	--	--	--	--	--	--	--	--
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
Klawock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3
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
Metlakatla	--	--	--	--	--	--	--	--	--	--	--	--
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
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
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
Sitka	0.0	0.0	0.0	0.0	0.0	0.0	3.3	4.4	7.6	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
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
NORTH PACIFIC RIM												
Chenega Bay	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0
Nanwalek	4.3	1.1	5.3	0.0	0.0	0.0	2.1	0.0	2.1	6.5	0.0	6.5
Port Graham	1.1	0.0	1.1	0.0	0.0	0.0	1.2	0.0	1.2	1.7	3.4	5.0
Seldovia	0.0	0.0	0.0	1.7	0.0	1.7	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
Tatitlek	5.0	0.0	5.0	2.7	1.4	4.1	15.1	6.8	21.9	1.9	0.0	1.9
Valdez	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.3	1.7	1.7	3.3
UPPER KENAI-COOK INLET												
Anchorage	1.0	0.0	1.0	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
Kenai	2.3	0.0	2.3	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
KODIAK ISLAND												
Akhiok	6.0	1.0	7.0	6.6	1.3	7.9	3.1	0.0	3.1	3.2	0.0	3.2
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
Kodiak City	3.0	0.0	3.0	3.0	0.0	3.0	0.0	1.0	1.0	2.4	0.0	2.4
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
Old Harbor	44.9	5.3	50.2	22.7	3.6	26.3	10.3	2.3	12.6	12.9	0.0	12.9
Ouzinkie	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 Lions	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0	1.0	0.0	0.0	0.0

Table 23 (Continued)
Subsistence Sea Lion Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2004

	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
Community	**2001**			**2002**			**2003**			**2004**		
SOUTHEAST ALASKA												
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
Craig	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	3.3
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
Hoonah	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	0.0	7.2	7.2
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
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
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
Kasaan	--	--	--	--	--	--	--	--	--	--	--	--
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
Klawock	0.0	0.0	0.0	1.0	0.0	1.0	2.3	0.0	2.3	1.3	0.0	1.3
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
Metlakatla	--	--	--	--	--	--	--	--	--	--	--	--
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
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
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
Sitka	0.0	0.0	0.0	6.0	0.0	6.0	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
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
NORTH PACIFIC RIM												
Chenega Bay	1.2	0.0	1.2	0.0	0.0	0.0	0.0	2.4	2.4	0.0	0.0	0.0
Cordova	3.5	0.0	3.5	3.5	0.0	3.5	2.7	0.0	2.7	2.7	0.0	2.7
Nanwalek	3.7	0.0	3.7	2.0	0.0	2.0	3.0	2.0	5.0	2.1	0.0	2.1
Port Graham	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	6.9	5.6	12.5
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
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
Tatitlek	6.3	0.0	6.3	0.0	0.0	0.0	12.4	1.1	13.5	26.3	10.3	36.6
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
UPPER KENAI-COOK INLET												
Anchorage	1.3	0.0	1.3	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
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
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
KODIAK ISLAND												
Akhiok	1.4	0.0	1.4	0.0	0.0	0.0	2.7	1.4	4.1	1.4	0.0	1.4
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
Kodiak City	2.5	0.0	2.5	2.5	0.0	2.5	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
Old Harbor	26.3	2.2	28.5	8.5	0.0	8.5	27.6	4.4	31.9	8.3	3.5	11.8
Ouzinkie	2.6	0.0	2.6	5.1	0.0	5.1	0.0	0.0	0.0	2.6	0.0	2.6
Port Lions	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2

Table 24
Subsistence Sea Lion Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2004

	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
Community	**1992**			**1993**			**1994**			**1995**		
SOUTH ALASKA PENINSULA												
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
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
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
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
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
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
Nelson Lagoon	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
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
ALEUTIAN ISLANDS												
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
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
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
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
PRIBILOF ISLANDS												
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
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
SOUTH BRISTOL 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
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
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
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
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
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
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
NORTH BRISTOL 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
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
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
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
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
Twin Hills	--	--	--	--	--	--	--	--	--	--	--	--

Table 24 (Continued)
Subsistence Sea Lion Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2004

	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
Community	**1996**			**1997**			**1998**			**2000**		
SOUTH ALASKA PENINSULA												
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
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
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
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
Ivanof Bay	2.4	0.0	2.4	1.8	0.0	1.8	1.8	0.0	1.8	0.0	0.0	0.0
King Cove	0.0	0.0	0.0	4.2	0.0	4.2	4.3	0.0	4.3	4.3	0.0	4.3
Nelson Lagoon	--	--	--	--	--	--	--	--	--	--	--	--
Perryville	1.3	1.3	2.6	2.3	0.0	2.3	1.1	0.0	1.1	4.5	0.0	4.5
Sand Point	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0	5.0	0.0	5.0
ALEUTIAN ISLANDS												
Adak	--	--	--	--	--	--	--	--	--	--	--	--
Akutan	11.0	5.0	16.0	6.4	0.0	6.4	6.4	0.0	6.4	4.1	1.4	5.4
Atka	17.3	0.0	17.3	12.2	0.0	12.2	16.8	0.0	16.8	16.8	0.0	16.8
Nikolski	3.0	0.0	3.0	3.0	0.0	3.0	1.1	0.0	1.1	1.1	0.0	1.1
Unalaska	15.2	6.3	21.6	29.1	1.3	30.3	7.3	5.5	12.7	49.2	3.4	52.6
PRIBILOF ISLANDS												
St. George	4.0	4.0	8.0	19.6	8.1	27.7	11.8	8.5	20.3	11.8	8.5	20.3
St. Paul	28.2	10.2	38.4	25.9	2.3	28.2	41.0	16.9	57.8	17.3	5.7	23.0
SOUTH BRISTOL 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
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
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
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
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
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
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
NORTH BRISTOL 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
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
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
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
Togiak	0.0	0.0	0.0	3.6	0.0	3.6	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

Table 24 (Continued)
Subsistence Sea Lion Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2004

Community	2001 Harvest	2001 Struck and Lost	2001 Take	2002 Harvest	2002 Struck and Lost	2002 Take	2003 Harvest	2003 Struck and Lost	2003 Take	2004 Harvest	2004 Struck and Lost	2004 Take
SOUTH ALASKA PENINSULA												
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
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
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
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
Ivanof Bay	1.4	1.4	2.8	1.4	1.4	2.8	--	--	--	--	--	--
King Cove	3.0	0.0	3.0	0.0	1.5	1.5	0.0	0.0	0.0	1.7	0.0	1.7
Nelson Lagoon	--	--	--	--	--	--	--	--	--	--	--	--
Perryville	1.1	0.0	1.1	2.5	1.3	3.8	1.2	2.4	3.7	2.2	0.0	2.2
Sand Point	4.7	0.0	4.7	0.0	0.0	0.0	1.3	0.0	1.3	0.0	0.0	0.0
ALEUTIAN ISLANDS												
Adak	--	--	--	--	--	--	1.0	0.0	1.0	2.0	1.0	3.0
Akutan	15.0	2.7	17.7	2.9	0.0	2.9	8.7	0.0	8.7	4.8	0.0	4.8
Atka	33.3	11.7	45.0	73.5	12.0	85.5	68.8	12.8	81.6	50.7	12.7	63.3
Nikolski	6.7	0.0	6.7	1.0	0.0	1.0	0.0	0.0	0.0	2.0	0.0	2.0
Unalaska	23.1	5.3	28.4	10.0	5.7	15.7	10.0	5.7	15.7	11.4	11.4	22.9
PRIBILOF ISLANDS												
St. George	7.0	7.0	14.0	6.0	1.0	7.0	9.3	4.7	14.0	9.3	4.7	14.0
St. Paul	12.0	12.0	24.0	18.0	18.0	36.0	13.0	5.0	18.0	13.0	5.0	18.0
SOUTH BRISTOL 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
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
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
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
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
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
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
NORTH BRISTOL 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
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
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
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
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
Twin Hills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2

Table 25
Seal Harvests by Strata
for Communities With Two Strata Designs, 2004

		Reported by Sample			Expanded		
			Struck and			Struck and	
Community		Harvest	Lost	Take	Harvest	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	11	5	16	12.0	5.5	17.5
	low stratum	15	19	34	19.1	24.1	43.2
Naknek	high stratum	7	3	10	8.9	3.8	12.7
	low stratum	3	0	3	6.3	0.0	6.3
Togiak	high stratum	39	2	41	58.9	3.0	61.9
	low stratum	7	4	11	11.7	6.7	18.4

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2005.

Table 26
Sea Lion Harvests by Strata
for Communities With Two Strata Designs, 2004

		Reported by Sample			Expanded		
			Struck and			Struck and	
Community		Harvest	Lost	Take	Harvest	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

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2005.

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APPENDIX A

SURVEY INSTRUMENT USED IN HOUSEHOLD INTERVIEWS, 2004

The Subsistence Harvest of Harbor Seals and Sea Lions by Alaska Natives in 2004, by Robert J. Wolfe, James A. Fall and Ronald T. Stanek. Technical Paper No. 303, Alaska Department of Fish and Game, Division of Subsistence, Juneau, November 2005. Final Report For Year Twelve, The Subsistence Harvest of Sea Lions and Harbor Seals by Alaska Natives, Harvest Assessment Program, 2003 (No. NA17FX2835), National Marine Fisheries Service.

Are any members of your household Alaska Natives? Yes (___) No (___) If No, thank you for your cooperation. This survey is relevant to Native households.

If yes, how many people lived in your household in 2004? (_____)

CHECK IF APPROPRIATE No Contact (_____)

Hunting location: If you hunted outside your region, where did you hunt? (_____)

DID YOU OR MEMBERS OF YOUR HOUSEHOLD HUNT OR USE HARBOR SEALS IN 2004? Yes ____ No ____

(IF YES TO HARBOR SEALS, COMPLETE THE FOLLOWING QUESTIONS:)

DID YOUR HOUSEHOLD HUNT/USE SEA LIONS IN 2004?

No ____, Thank you | Yes ____, Go to Sea lion form

During 2004, did you or your household:

	Yes	No
1. **Use** harbor seals (meat, hides, or oil)?.		
2. **Hunt** harbor seals?		
3. **Kill and retrieve** harbor seals?		
4. **Receive** harbor seals from other households or communities?		
5. **Give away** harbor seals to other households or communities?		

IF YES TO QUESTION 2 OR 3 ABOVE, GO TO QUESTION 6. IF NO, COMPLETE SEA LION SURVEY.

6. How many harbor seals did your household kill and retrieve? [Enter in total box.]
7. In which months were they killed and retrieved? How many in (January, etc.)? [Enter the numbers by month.]

HARBOR SEAL	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	UNKNOWN	TOTAL
TOTAL														

8. Of the harbor seals killed and retrieved in (January, etc.), how many were male, female, and how many were pups, juveniles, or adults? [Enter the numbers by month.]

HARBOR SEAL (Detail)		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	UNKNOWN	TOTAL
ADULT	MALE														
	FEMALE														
	UNKNOWN														
JUVENILE	MALE														
	FEMALE														
	UNKNOWN														
PUP	MALE														
	FEMALE														
	UNKNOWN														
UNKNOWN AGE	MALE														
	FEMALE														
	UNKNOWN														

During 2004,

9. How many harbor seal 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.]

HARBOR SEAL	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	UNKNOWN	TOTAL
STRUCK AND LOST														

Supplemental Question: Compared to five (5) years ago, has the harbor seal population where members of your household hunted:

Increased _____ (1) Remained Stable _____ (2) Declined _____ (3) Do Not Know _____ (-8) N/A Do Not Hunt _____ (0)

Community: _____(_____) HHID: (_____) List: Hunter Random Interviewer: _____ Date: _____

SEA LIONS **DID YOU OR MEMBERS OF YOUR HOUSEHOLD HUNT OR USE SEA LIONS IN 2004? YES _____ NO _____**

(IF YES, PLEASE COMPLETE THE FOLLOWING QUESTIONS:) **(IF NO, THAT COMPLETES THIS SURVEY. THANK YOU.)**

During 2004, did you or your household:

	Yes	No
1. **Use** sea lions (meat, hides, or oil)?.		
2. **Hunt** sea lions?		
3. **Kill and retrieve** sea lions?		
4. **Receive** sea lions from other households or communities? .		
5. **Give away** sea lions to other households or communities? .		

IF YES TO QUESTION 2 OR 3 ABOVE, GO TO QUESTION 6. **IF NO, THIS COMPLETES THE SURVEY. THANK YOU FOR YOUR COOPERATION.**

6. How many sea lions did your household kill and retrieve? [Enter total number in box.]
7. In which months were they killed and retrieved? How many in (January, etc.)? [Enter the numbers by month.]

SEA LIONS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	UNKNOWN	TOTAL
TOTAL														

8. Of the sea lions killed and retrieved in (January, etc.), how many were male, female, and how many were pups, juveniles, or adults? [Enter the numbers by month.]

SEA LIONS (Detail)		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	UNKNOWN	TOTAL
ADULT	MALE														
	FEMALE														
	UNKNOWN														
JUVENILE	MALE														
	FEMALE														
	UNKNOWN														
PUP	MALE														
	FEMALE														
	UNKNOWN														
UNKNOWN AGE	MALE														
	FEMALE														
	UNKNOWN														

During 2004,

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.]

SEA LIONS	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	UNKNOWN	TOTAL
STRUCK AND LOST														

Supplemental Question: Compared to five (5) years ago, has the sea lion popluation where members of you household hunt:

Increased _____ (1) Remained Stable _____ (2) Declined _____ (3) Do Not Know _____ (-8) N/A (Do not hunt) _____ (0)

THANK YOU FOR YOUR COOPERATION

APPENDIX B

SUBSISTENCE TAKES OF HARBOR SEAL AND SEA LION 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, 2004

SAMPLING DESIGN:		Total
CHAIN REFERRAL	Total Referred Households	442
	Surveyed Households	344
	Sampling Fraction	77.8%
	Sample Household Members	1070
	Estimated Household Members	1373.1
	2000 U.S. Census Estimated Native Population	14070

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	N/A	N/A
Hunted	N/A	N/A
Harvested	N/A	N/A
Received	N/A	N/A
Gave Away	N/A	N/A

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	4.6	743.0
Total Number Struck and Lost	7.2	102.3
Total Number Taken	11.8	845.3
Number Harvested Per Capita	0.00	0.05

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	0	0	0	1	2	0	0	0	0	0	0	4
Struck & Lost	0	0	0	0	0	2	0	1	1	0	0	0	0	4
Total Take	1	0	0	0	0	3	2	1	1	0	0	0	0	8
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.3	0.0	0.0	0.0	0.0	1.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	4.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	3.6	0.0	1.8	1.8	0.0	0.0	0.0	0.0	7.2
Total Take	1.3	0.0	0.0	0.0	0.0	4.7	2.2	1.8	1.8	0.0	0.0	0.0	0.0	11.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.3	0.0	0.0	0.0	0.0	1.1	2.2	0.0	0.0	0.0	0.0	0.0		4.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	3.6	0.0	1.8	1.8	0.0	0.0	0.0		7.2
Total Take	1.3	0.0	0.0	0.0	0.0	4.7	2.2	1.8	1.8	0.0	0.0	0.0		11.8
Total Take (%)	10.8%	0.0%	0.0%	0.0%	0.0%	39.9%	18.7%	15.3%	15.3%	0.0%	0.0%	0.0%		100%
Cum. Take	1.3	1.3	1.3	1.3	1.3	6.0	8.2	10.0	11.8	11.8	11.8	11.8		
Cum. Take (%)	10.8%	10.8%	10.8%	10.8%	10.8%	50.7%	69.4%	84.7%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	37	31	83	49	6	24	14	57	78	59	74	42	62	616
Struck & Lost	4	8	10	7	3	0	5	7	7	10	7	5	9	82
Total Take	41	39	93	56	9	24	19	64	85	69	81	47	71	698
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	47.9	34.1	102.5	58.9	8.6	30.1	17.4	69.1	100.4	72.6	88.7	48.8	63.9	743.0
Struck & Lost	4.2	9.6	15.1	8.8	3.8	0.0	9.3	8.5	8.2	11.8	8.8	5.1	9.1	102.3
Total Take	52.1	43.7	117.5	67.8	12.3	30.1	26.8	77.5	108.7	84.4	97.6	54.0	72.9	845.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	53.4	39.5	108.3	64.3	13.6	35.1	22.4	74.1	106.3	77.6	93.9	54.5		743.0
Struck & Lost	5.1	10.8	15.5	9.5	4.2	0.4	9.8	8.9	8.7	13.3	9.8	6.4		102.3
Total Take	58.5	50.3	123.8	73.9	17.7	35.5	32.2	83.0	115.0	90.9	103.7	60.8		845.3
Total Take (%)	6.9%	6.0%	14.6%	8.7%	2.1%	4.2%	3.8%	9.8%	13.6%	10.8%	12.3%	7.2%		100%
Cum. Take	58.5	108.8	232.6	306.5	324.2	359.7	391.9	474.8	589.8	680.7	784.4	845.3		
Cum. Take (%)	6.9%	12.9%	27.5%	36.3%	38.4%	42.6%	46.4%	56.2%	69.8%	80.5%	92.8%	100.0%		

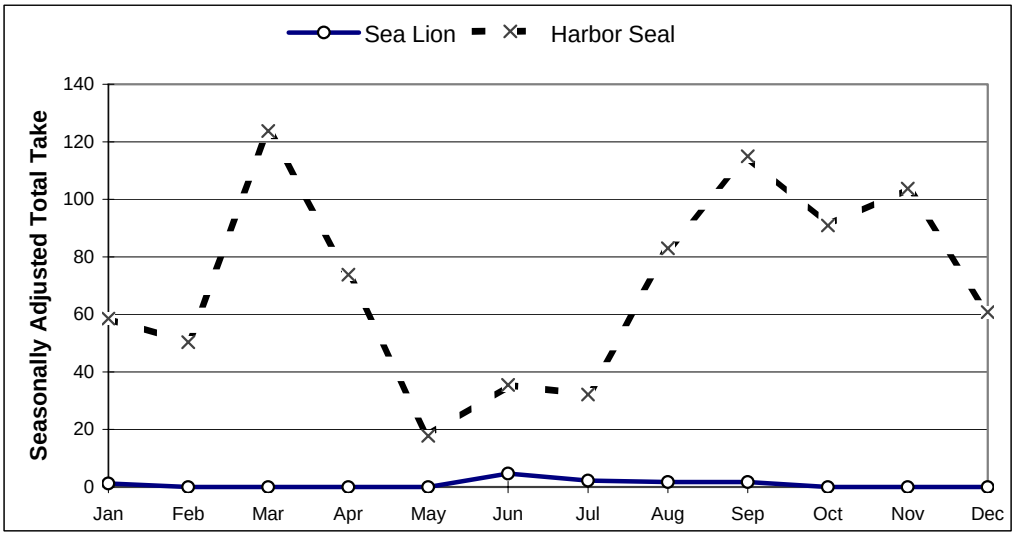
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 1. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTHEAST ALASKA, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	311	50.5%	376.0	50.6%
Adult Female	0	0.0%	0.0	0.0%	124	20.1%	153.1	20.6%
Adult Unknown Sex	3	75.0%	3.5	75.9%	26	4.2%	31.0	4.2%
Juvenile Male	1	25.0%	1.1	24.1%	55	8.9%	64.3	8.7%
Juvenile Female	0	0.0%	0.0	0.0%	25	4.1%	29.4	4.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	2	0.3%	3.5	0.5%
Pup Male	0	0.0%	0.0	0.0%	1	0.2%	1.0	0.1%
Pup Female	0	0.0%	0.0	0.0%	1	0.2%	1.2	0.2%
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%	7	1.1%	7.1	1.0%
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%	64	10.4%	76.3	10.3%
Total	4	100.0%	4.6	100.0%	616	100.0%	743.0	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 2. SEA LION AND HARBOR SEAL HARVESTS: NORTH PACIFIC RIM, 2004

SAMPLING DESIGN:		Active	Other	Total
MIXED	Total Household Universe	44	118	162
	Surveyed Households	38	101	139
	Sampling Fraction	86.4%	85.6%	85.8%
	Sample Household Members	120	314	434
	Estimated Household Members	139.1	354.8	493.9
	2000 U.S. Census Estimated Native Population	---	---	2094

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	N/A	N/A
Hunted	N/A	N/A
Harvested	N/A	N/A
Received	N/A	N/A
Gave Away	N/A	N/A

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	38.0	322.7
Total Number Struck and Lost	15.8	43.2
Total Number Taken	53.9	365.9
Number Harvested Per Capita	0.02	0.15

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	5	11	1	4	2	1	0	3	2	2	3	35
Struck & Lost	0	0	4	5	0	4	0	0	0	0	0	0	1	14
Total Take	0	1	9	16	1	8	2	1	0	3	2	2	5	50
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.0	5.0	11.4	1.0	5.2	2.4	1.0	0.0	3.8	2.0	2.0	3.3	38.0
Struck & Lost	0.0	0.0	4.0	5.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	1.3	15.8
Total Take	0.0	1.0	9.0	16.4	1.0	10.7	2.4	1.0	0.0	3.8	2.0	2.0	4.6	53.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.1	5.7	12.8	1.1	5.3	2.5	1.1	0.0	3.8	2.3	2.2		38.0
Struck & Lost	0.0	0.0	4.6	5.7	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0		15.8
Total Take	0.0	1.1	10.3	18.5	1.1	10.9	2.5	1.1	0.0	3.8	2.3	2.2		53.9
Total Take (%)	0.0%	2.1%	19.1%	34.4%	2.1%	20.2%	4.7%	2.1%	0.0%	7.0%	4.2%	4.1%		100%
Cum. Take	0.0	1.1	11.4	30.0	31.1	42.0	44.5	45.6	45.6	49.4	51.7	53.9		
Cum. Take (%)	0.0%	2.1%	21.2%	55.6%	57.7%	77.9%	82.5%	84.7%	84.7%	91.7%	95.9%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	9	6	17	8	19	19	30	30	28	47	21	13	11	258
Struck & Lost	0	0	0	2	2	6	14	1	5	5	0	0	6	41
Total Take	9	6	17	10	21	25	44	31	33	52	21	13	17	299
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	13.1	7.1	23.2	8.1	19.3	21.3	35.1	35.8	36.2	67.5	29.8	14.4	12.0	322.7
Struck & Lost	0.0	0.0	0.0	2.0	2.0	6.0	14.2	1.4	5.2	5.8	0.0	0.0	6.6	43.2
Total Take	13.1	7.1	23.2	10.1	21.3	27.3	49.3	37.2	41.4	73.2	29.8	14.4	18.6	365.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	13.5	7.5	24.0	8.6	20.8	22.8	36.7	37.1	36.9	69.2	30.7	14.9		322.7
Struck & Lost	0.0	0.0	0.0	2.2	2.2	6.6	16.5	1.4	7.0	7.3	0.0	0.0		43.2
Total Take	13.5	7.5	24.0	10.8	23.0	29.4	53.2	38.5	43.8	76.5	30.7	14.9		365.9
Total Take (%)	3.7%	2.1%	6.6%	3.0%	6.3%	8.0%	14.5%	10.5%	12.0%	20.9%	8.4%	4.1%		100%
Cum. Take	13.5	21.1	45.1	55.9	78.9	108.2	161.4	199.9	243.7	320.3	351.0	365.9		
Cum. Take (%)	3.7%	5.8%	12.3%	15.3%	21.6%	29.6%	44.1%	54.6%	66.6%	87.5%	95.9%	100.0%		

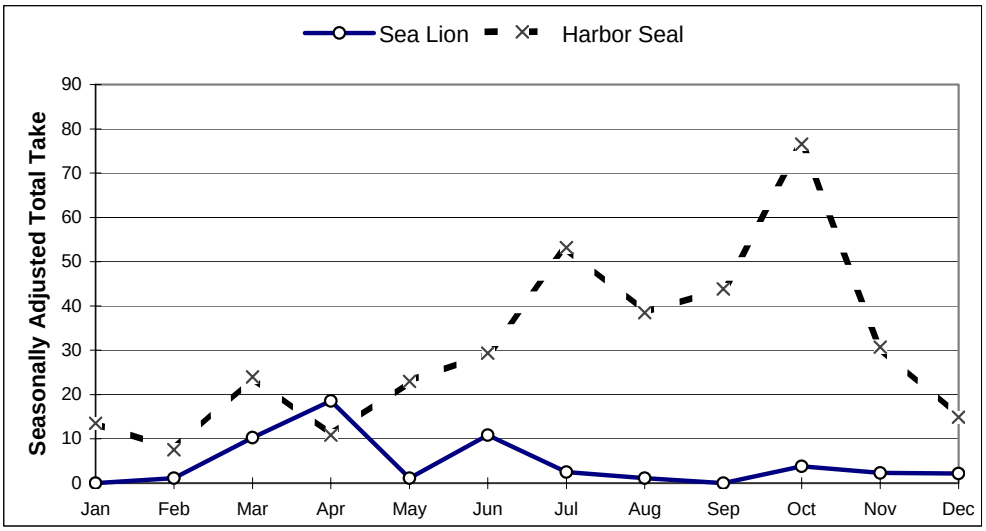
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 2. (cont.) SEA LION AND HARBOR SEAL HARVESTS: NORTH PACIFIC RIM, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	9	25.5%	9.8	25.7%	64	24.8%	91.9	28.5%
Adult Female	2	5.7%	2.4	6.3%	26	10.1%	39.2	12.2%
Adult Unknown Sex	2	5.7%	2.0	5.3%	33	12.8%	36.2	11.2%
Juvenile Male	4	11.3%	4.4	11.5%	14	5.4%	17.8	5.5%
Juvenile Female	4	11.3%	4.4	11.5%	17	6.6%	22.2	6.9%
Juvenile Unknown Sex	7	19.8%	7.1	18.6%	40	15.5%	40.9	12.7%
Pup Male	0	0.0%	0.0	0.0%	9	3.5%	10.3	3.2%
Pup Female	0	0.0%	0.0	0.0%	4	1.5%	4.4	1.4%
Pup Unknown Sex	0	0.0%	0.0	0.0%	8	3.1%	8.0	2.5%
Male Unknown Age	0	0.0%	0.0	0.0%	1	0.4%	1.1	0.3%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	7	20.7%	8.0	21.1%	42	16.3%	50.6	15.7%
Total	35	100.0%	38.0	100.0%	258	100.0%	322.7	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION

Year	Harvest	Struck/ Lost	Total Take
1992	25.1	6.5	31.5
1993	26.2	8.7	34.9
1994	16.6	9.7	26.3
1995	28.4	3.0	31.4
1996	12.4	1.1	13.5
1997	4.5	1.4	5.8
1998	20.0	8.5	28.5
2000	11.7	5.0	16.7
2001	14.7	0.0	14.7
2002	5.5	0.0	5.5
2003	19.1	5.6	24.7
2004	38.0	15.8	53.9

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	377.6	33.4	411.0
1993	412.3	38.5	450.8
1994	411.2	56.8	468.0
1995	252.1	11.7	263.9
1996	289.0	22.1	311.1
1997	295.0	12.8	307.7
1998	393.5	41.4	434.9
2000	289.9	29.8	319.7
2001	279.9	20.1	300.0
2002	251.9	35.2	287.1
2003	348.8	25.3	374.1
2004	322.7	43.2	365.9

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 3. SEA LION AND HARBOR SEAL HARVESTS: UPPER KENAI-COOK INLET, 2004

SAMPLING DESIGN:		Total
CHAIN REFERRAL	Total Referred Households	47
	Surveyed Households	23
	Sampling Fraction	48.9%
	Sample Household Members	76
	Estimated Household Members	156.5
	2000 U.S. Census Estimated Native Population	29486

HARVEST AND USE INFORMATION

Percentage of Native Households:	Sea Lion	Harbor Seal
Used	N/A	N/A
Hunted	N/A	N/A
Harvested	N/A	N/A
Received	N/A	N/A
Gave Away	N/A	N/A

Estimated Community Harvest and Take (Expanded):	Sea Lion	Harbor Seal
Total Number Harvested	0.0	56.6
Total Number Struck and Lost	0.0	13.4
Total Number Taken	0.0	69.9
Number Harvested Per Capita	0.00	0.00

SEA LION HARVEST BY MONTH	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	2	0	4	9	1	0	0	0	1	0	0	7	25
Struck & Lost	0	0	0	3	0	0	0	3	0	0	0	0	0	6
Total Take	1	2	0	7	9	1	0	3	0	1	0	0	7	31
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.9	6.0	0.0	8.9	20.1	2.2	0.0	0.0	0.0	1.9	0.0	0.0	15.6	56.6
Struck & Lost	0.0	0.0	0.0	6.7	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	13.4
Total Take	1.9	6.0	0.0	15.6	20.1	2.2	0.0	6.7	0.0	1.9	0.0	0.0	15.6	69.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.9	6.0	0.0	13.4	30.1	3.3	0.0	0.0	0.0	1.9	0.0	0.0		56.6
Struck & Lost	0.0	0.0	0.0	6.7	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0		13.4
Total Take	1.9	6.0	0.0	20.1	30.1	3.3	0.0	6.7	0.0	1.9	0.0	0.0		69.9
Total Take (%)	2.7%	8.6%	0.0%	28.7%	43.1%	4.8%	0.0%	9.6%	0.0%	2.7%	0.0%	0.0%		100%
Cum. Take	1.9	7.9	7.9	27.9	58.0	61.4	61.4	68.1	68.1	69.9	69.9	69.9		
Cum. Take (%)	2.7%	11.2%	11.2%	39.9%	83.0%	87.8%	87.8%	97.3%	97.3%	100.0%	100.0%	100.0%		

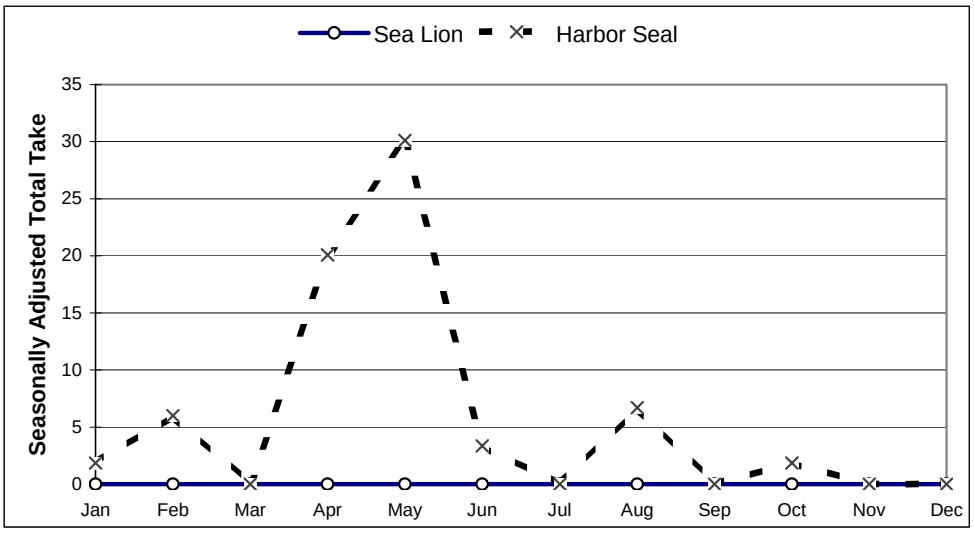
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 3. (cont.) SEA LION AND HARBOR SEAL HARVESTS: UPPER KENAI-COOK INLET, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	2	8.0%	4.1	7.2%
Adult Female	0	---	0.0	---	3	12.0%	7.9	13.9%
Adult Unknown Sex	0	---	0.0	---	7	28.0%	15.6	27.6%
Juvenile Male	0	---	0.0	---	1	4.0%	2.2	3.9%
Juvenile Female	0	---	0.0	---	1	4.0%	2.2	3.9%
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	---	11	44.0%	24.5	43.4%
Total	0	---	0.0	---	25	100.0%	56.6	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION

Year	Harvest	Struck/ Lost	Total Take
1992	5.7	3.8	9.5
1993	7.8	3.3	11.1
1994	1.4	0.0	1.4
1995	0.0	0.0	0.0
1996	3.3	0.0	3.3
1997	0.0	0.0	0.0
1998	0.0	0.0	0.0
2000	0.0	0.0	0.0
2001	1.3	0.0	1.3
2002	0.0	0.0	0.0
2003	0.0	0.0	0.0
2004	0.0	0.0	0.0

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	51.6	0.0	51.6
1993	49.2	5.6	54.8
1994	16.2	0.0	16.2
1995	3.7	0.0	3.7
1996	64.3	8.8	73.1
1997	101.7	8.8	110.5
1998	79.2	13.5	92.7
2000	79.2	13.5	92.7
2001	91.2	2.7	93.9
2002	75.2	8.0	83.2
2003	90.8	15.0	105.8
2004	56.6	13.4	69.9

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 4. SEA LION AND HARBOR SEAL HARVESTS: KODIAK ISLAND, 2004

SAMPLING DESIGN:		Active	Other	Total
MIXED	Total Household Universe	32	171	203
	Surveyed Households	24	135	159
	Sampling Fraction	75.0%	78.9%	78.3%
	Sample Household Members	64	430	494
	Estimated Household Members	86.9	548.3	635.2
	2000 U.S. Census Estimated Native Population	---	---	1584

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	N/A	N/A
Hunted	N/A	N/A
Harvested	N/A	N/A
Received	N/A	N/A
Gave Away	N/A	N/A

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	13.5	172.2
Total Number Struck and Lost	3.5	15.7
Total Number Taken	17.0	188.0
Number Harvested Per Capita	0.01	0.11

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	1	0	0	0	0	0	0	1	2	3	3	0	11
Struck & Lost	0	0	0	0	0	0	0	0	3	0	0	0	0	3
Total Take	1	1	0	0	0	0	0	0	4	2	3	3	0	14
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	3.5	3.8	0.0	13.5
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	3.5
Total Take	1.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	4.7	2.5	3.5	3.8	0.0	17.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	3.5	3.8		13.5
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0		3.5
Total Take	1.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	4.7	2.5	3.5	3.8		17.0
Total Take (%)	7.1%	7.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	27.7%	14.6%	20.8%	22.1%		100%
Cum. Take	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	7.2	9.7	13.3	17.0		
Cum. Take (%)	7.1%	14.8%	14.8%	14.8%	14.8%	14.8%	14.8%	14.8%	42.5%	57.1%	77.9%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	7	8	2	2	10	3	4	11	20	27	26	14	0	134
Struck & Lost	0	0	0	1	1	0	1	3	0	2	1	3	0	12
Total Take	7	8	2	3	11	3	5	14	20	29	27	17	0	146
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	9.2	9.8	2.5	2.8	13.2	3.8	5.2	14.0	26.2	35.0	32.6	17.8	0.0	172.2
Struck & Lost	0.0	0.0	0.0	1.5	1.3	0.0	1.5	3.5	0.0	2.6	1.4	3.9	0.0	15.7
Total Take	9.2	9.8	2.5	4.3	14.5	3.8	6.7	17.6	26.2	37.6	34.0	21.7	0.0	188.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	9.2	9.8	2.5	2.8	13.2	3.8	5.2	14.0	26.2	35.0	32.6	17.8		172.2
Struck & Lost	0.0	0.0	0.0	1.5	1.3	0.0	1.5	3.5	0.0	2.6	1.4	3.9		15.7
Total Take	9.2	9.8	2.5	4.3	14.5	3.8	6.7	17.6	26.2	37.6	34.0	21.7		188.0
Total Take (%)	4.9%	5.2%	1.3%	2.3%	7.7%	2.0%	3.6%	9.4%	13.9%	20.0%	18.1%	11.5%		100%
Cum. Take	9.2	19.0	21.5	25.8	40.3	44.2	50.9	68.4	94.6	132.3	166.3	188.0		
Cum. Take (%)	4.9%	10.1%	11.5%	13.7%	21.5%	23.5%	27.1%	36.4%	50.3%	70.4%	88.5%	100.0%		

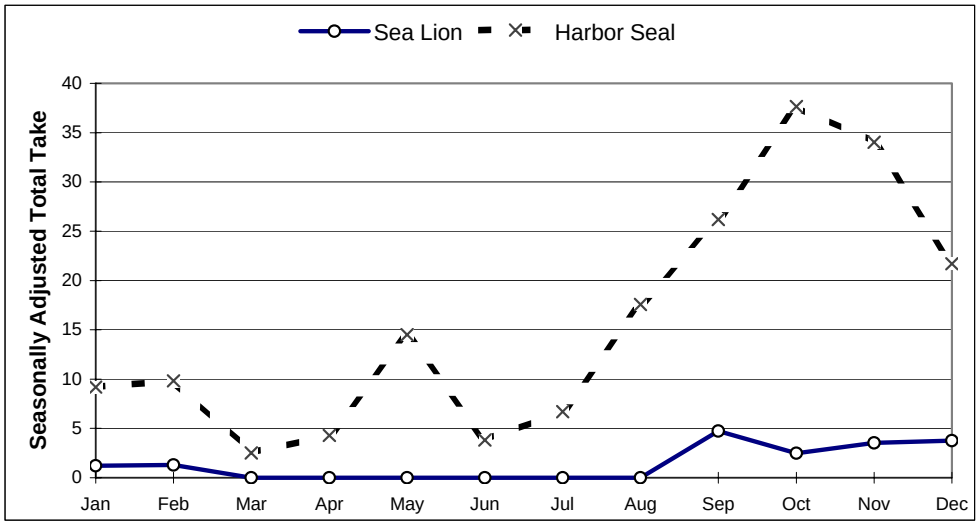
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 4. (cont.) SEA LION AND HARBOR SEAL HARVESTS: KODIAK ISLAND, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	9	81.8%	11.1	82.5%	80	59.7%	102.7	59.6%
Adult Female	0	0.0%	0.0	0.0%	21	15.7%	27.0	15.7%
Adult Unknown Sex	0	0.0%	0.0	0.0%	23	17.2%	30.4	17.6%
Juvenile Male	2	18.2%	2.4	17.5%	9	6.7%	11.0	6.4%
Juvenile Female	0	0.0%	0.0	0.0%	1	0.7%	1.2	0.7%
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	11	100.0%	13.5	100.0%	134	100.0%	172.2	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 5. SEA LION AND HARBOR SEAL HARVESTS: SOUTH ALASKA PENINSULA, 2004

SAMPLING DESIGN:		Active	Other	Total
MIXED	Total Household Universe	32	113	145
	Surveyed Households	22	80	102
	Sampling Fraction	68.8%	70.8%	70.3%
	Sample Household Members	59	244	303
	Estimated Household Members	83.1	346.5	429.5
	2000 U.S. Census Estimated Native Population	---	---	1228

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	N/A	N/A
Hunted	N/A	N/A
Harvested	N/A	N/A
Received	N/A	N/A
Gave Away	N/A	N/A

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	3.9	77.9
Total Number Struck and Lost	0.0	10.1
Total Number Taken	3.9	88.0
Number Harvested Per Capita	0.00	0.06

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	1	0	1	0	0	0	1	0	0	0	0	3
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	1	0	1	0	0	0	1	0	0	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.1	0.0	1.7	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	3.9
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	1.1	0.0	1.7	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	3.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.1	0.0	1.7	0.0	0.0	0.0	1.1	0.0	0.0	0.0		3.9
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	1.1	0.0	1.7	0.0	0.0	0.0	1.1	0.0	0.0	0.0		3.9
Total Take (%)	0.0%	0.0%	28.3%	0.0%	43.3%	0.0%	0.0%	0.0%	28.3%	0.0%	0.0%	0.0%		100%
Cum. Take	0.0	0.0	1.1	1.1	2.8	2.8	2.8	2.8	3.9	3.9	3.9	3.9		
Cum. Take (%)	0.0%	0.0%	28.3%	28.3%	71.7%	71.7%	71.7%	71.7%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	4	2	4	0	10	3	4	3	6	8	7	1	2	54
Struck & Lost	0	1	1	1	0	0	0	0	0	2	1	1	0	7
Total Take	4	3	5	1	10	3	4	3	6	10	8	2	2	61
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.6	2.4	5.8	0.0	14.1	4.2	5.5	4.7	7.7	10.2	13.4	1.7	2.8	77.9
Struck & Lost	0.0	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	2.2	3.3	1.3	0.0	10.1
Total Take	5.6	3.5	6.9	1.1	14.1	4.2	5.5	4.7	7.7	12.4	16.7	3.0	2.8	88.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.9	2.4	6.0	0.0	14.9	4.3	5.5	4.8	8.0	10.7	13.5	1.8		77.9
Struck & Lost	0.0	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	2.2	3.3	1.3		10.1
Total Take	5.9	3.5	7.1	1.1	14.9	4.3	5.5	4.8	8.0	12.9	16.9	3.0		88.0
Total Take (%)	6.8%	4.0%	8.1%	1.3%	16.9%	4.9%	6.3%	5.5%	9.0%	14.6%	19.2%	3.5%		100%
Cum. Take	5.9	9.5	16.6	17.7	32.6	36.9	42.4	47.2	55.2	68.1	84.9	88.0		
Cum. Take (%)	6.8%	10.8%	18.9%	20.1%	37.0%	41.9%	48.2%	53.7%	62.7%	77.4%	96.5%	100.0%		

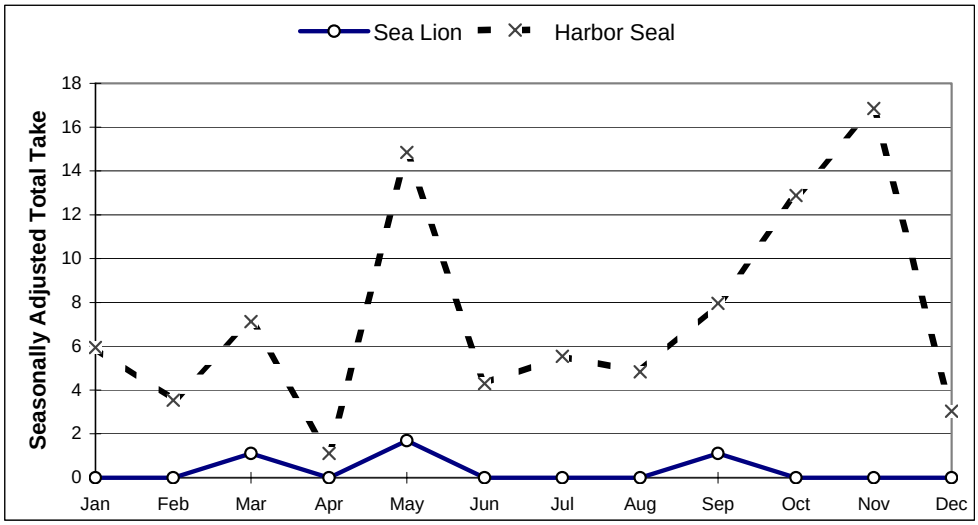
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 5. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTH ALASKA PENINSULA, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	1	33.3%	1.7	43.3%	27	50.0%	39.7	51.0%
Adult Female	0	0.0%	0.0	0.0%	2	3.7%	2.8	3.6%
Adult Unknown Sex	0	0.0%	0.0	0.0%	11	20.4%	18.9	24.2%
Juvenile Male	2	66.7%	2.2	56.7%	1	1.9%	1.1	1.4%
Juvenile Female	0	0.0%	0.0	0.0%	1	1.9%	1.1	1.4%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	7	13.0%	7.8	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%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	2	3.7%	2.8	3.6%
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%	3	5.6%	3.8	4.8%
Total	3	100.0%	3.9	100.0%	54	100.0%	77.9	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 6. SEA LION AND HARBOR SEAL HARVESTS: ALEUTIAN ISLANDS, 2004

SAMPLING DESIGN:		Active	Other	Total
MIXED	Total Household Universe	44	27	71
	Surveyed Households	21	17	38
	Sampling Fraction	47.7%	63.0%	53.5%
	Sample Household Members	67	42	109
	Estimated Household Members	138.6	66.7	205.3
	2000 U.S. Census Estimated Native Population	---	---	743

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	N/A	N/A
Hunted	N/A	N/A
Harvested	N/A	N/A
Received	N/A	N/A
Gave Away	N/A	N/A

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	70.9	118.0
Total Number Struck and Lost	25.1	28.0
Total Number Taken	96.0	146.0
Number Harvested Per Capita	0.10	0.16

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	3	4	2	2	2	1	0	5	3	3	1	6	35
Struck & Lost	1	0	1	0	0	0	1	0	0	1	0	0	7	11
Total Take	4	3	5	2	2	2	2	0	5	4	3	1	13	46
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.6	5.8	7.9	4.2	4.2	3.1	2.1	0.0	10.9	6.0	5.2	2.1	12.7	70.9
Struck & Lost	2.1	0.0	2.1	0.0	0.0	0.0	2.9	0.0	0.0	2.1	0.0	0.0	15.9	25.1
Total Take	8.7	5.8	10.0	4.2	4.2	3.1	5.0	0.0	10.9	8.1	5.2	2.1	28.6	96.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	7.3	7.2	10.0	5.6	5.6	3.8	2.8	0.0	12.3	6.7	6.6	2.8		70.9
Struck & Lost	4.2	0.0	4.2	0.0	0.0	0.0	11.4	0.0	0.0	4.7	0.5	0.0		25.1
Total Take	11.5	7.2	14.3	5.6	5.6	3.8	14.2	0.0	12.3	11.4	7.1	2.8		96.0
Total Take (%)	12.0%	7.5%	14.9%	5.9%	5.9%	4.0%	14.8%	0.0%	12.9%	11.9%	7.4%	2.9%		100%
Cum. Take	11.5	18.7	33.0	38.6	44.2	48.0	62.3	62.3	74.6	86.0	93.1	96.0		
Cum. Take (%)	12.0%	19.5%	34.3%	40.2%	46.1%	50.1%	64.9%	64.9%	77.8%	89.6%	97.1%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	4	5	2	3	3	6	3	4	3	8	1	13	57
Struck & Lost	1	1	0	0	0	0	0	0	1	0	1	3	6	13
Total Take	3	5	5	2	3	3	6	3	5	3	9	4	19	70
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.6	6.8	10.6	3.7	6.3	6.0	13.8	4.7	7.3	5.3	20.6	2.9	27.4	118.0
Struck & Lost	1.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	2.1	8.6	12.7	28.0
Total Take	3.6	8.4	10.6	3.7	6.3	6.0	13.8	4.7	9.4	5.3	22.7	11.4	40.1	146.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.6	9.3	16.8	4.9	10.1	7.2	16.3	5.9	11.1	6.5	24.4	2.9		118.0
Struck & Lost	1.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0	8.4	8.6		28.0
Total Take	3.6	10.9	16.8	4.9	10.1	7.2	16.3	5.9	19.5	6.5	32.8	11.4		146.0
Total Take (%)	2.5%	7.5%	11.5%	3.4%	6.9%	4.9%	11.2%	4.1%	13.4%	4.5%	22.5%	7.8%		100%
Cum. Take	3.6	14.5	31.3	36.2	46.3	53.5	69.8	75.7	95.3	101.8	134.6	146.0		
Cum. Take (%)	2.5%	9.9%	21.4%	24.8%	31.7%	36.6%	47.8%	51.9%	65.2%	69.7%	92.2%	100.0%		

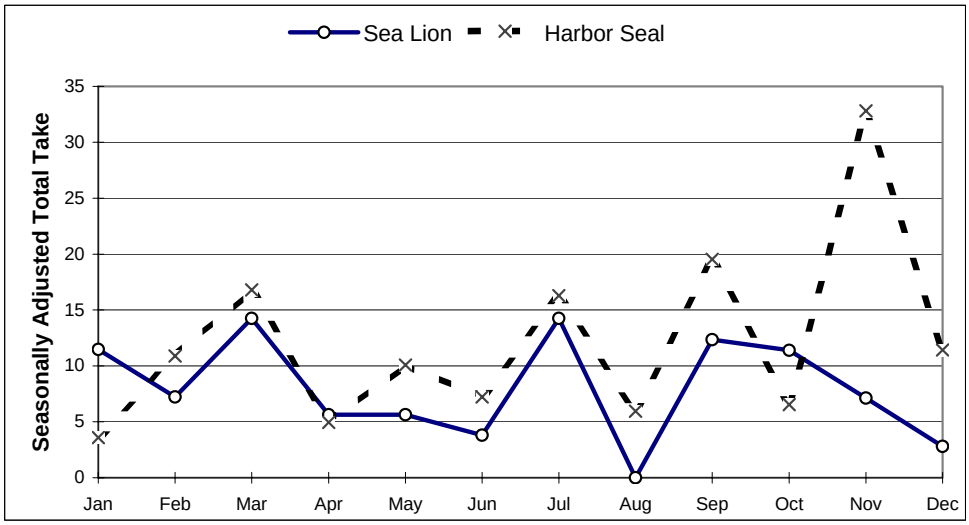
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 6. (cont.) SEA LION AND HARBOR SEAL HARVESTS: ALEUTIAN ISLANDS, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	12	34.3%	22.6	31.9%	17	29.8%	34.2	29.0%
Adult Female	11	31.4%	21.8	30.8%	7	12.3%	14.8	12.5%
Adult Unknown Sex	0	0.0%	0.0	0.0%	4	7.0%	8.4	7.2%
Juvenile Male	2	5.7%	3.9	5.4%	0	0.0%	0.0	0.0%
Juvenile Female	3	8.6%	7.1	10.0%	5	8.8%	12.8	10.8%
Juvenile Unknown Sex	1	2.9%	2.9	4.0%	9	15.8%	14.6	12.3%
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%	1	1.8%	2.9	2.4%
Pup Unknown Sex	0	0.0%	0.0	0.0%	1	1.8%	2.9	2.4%
Male Unknown Age	1	2.9%	2.1	3.0%	0	0.0%	0.0	0.0%
Female Unknown Age	5	14.3%	10.6	14.9%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	13	22.8%	27.4	23.3%
Total	35	100.0%	70.9	100.0%	57	100.0%	118.0	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION

Year	Harvest	Struck/ Lost	Total Take
1992	104.3	30.9	135.2
1993	99.0	24.8	123.8
1994	101.8	20.5	122.3
1995	85.0	11.1	96.1
1996	46.5	11.3	57.9
1997	50.7	1.3	51.9
1998	31.6	5.5	37.0
2000	71.2	4.8	76.0
2001	78.1	19.6	97.7
2002	87.4	17.7	105.1
2003	88.5	18.5	107.0
2004	70.9	25.1	96.0

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	94.3	21.4	115.7
1993	85.0	15.4	100.4
1994	124.9	22.6	147.5
1995	86.9	9.7	96.6
1996	55.0	15.2	70.2
1997	70.5	6.3	76.9
1998	45.8	3.8	49.6
2000	79.0	10.5	89.5
2001	120.1	12.5	132.6
2002	63.4	2.4	65.9
2003	97.7	11.4	109.1
2004	118.0	28.0	146.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 7. SEA LION AND HARBOR SEAL HARVESTS: PRIBILOF ISLANDS, 2004

SAMPLING DESIGN:		Active	Other	Total
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. Census Estimated Native Population	---	---	600

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	N/A	N/A
Hunted	N/A	N/A
Harvested	N/A	N/A
Received	N/A	N/A
Gave Away	N/A	N/A

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	24.0	N/A
Total Number Struck and Lost	19.0	N/A
Total Number Taken	43.0	N/A
Number Harvested Per Capita	0.04	N/A

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	1	0	3	1	3	0	5	4	2	1	3	24
Struck & Lost	2	1	5	2	3	0	0	0	2	3	0	1	0	19
Total Take	3	1	6	2	6	1	3	0	7	7	2	2	3	43
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	0.0	1.0	0.0	3.0	1.0	3.0	0.0	5.0	4.0	2.0	1.0	3.0	24.0
Struck & Lost	2.0	1.0	5.0	2.0	3.0	0.0	0.0	0.0	2.0	3.0	0.0	1.0	0.0	19.0
Total Take	3.0	1.0	6.0	2.0	6.0	1.0	3.0	0.0	7.0	7.0	2.0	2.0	3.0	43.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	0.0	1.0	0.0	6.0	1.0	3.0	0.0	5.0	4.0	2.0	1.0		24.0
Struck & Lost	2.0	1.0	5.0	2.0	3.0	0.0	0.0	0.0	2.0	3.0	0.0	1.0		19.0
Total Take	3.0	1.0	6.0	2.0	9.0	1.0	3.0	0.0	7.0	7.0	2.0	2.0		43.0
Total Take (%)	7.0%	2.3%	14.0%	4.7%	20.9%	2.3%	7.0%	0.0%	16.3%	16.3%	4.7%	4.7%		100%
Cum. Take	3.0	4.0	10.0	12.0	21.0	22.0	25.0	25.0	32.0	39.0	41.0	43.0		
Cum. Take (%)	7.0%	9.3%	23.3%	27.9%	48.8%	51.2%	58.1%	58.1%	74.4%	90.7%	95.3%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
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 HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
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 SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
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 (%)														

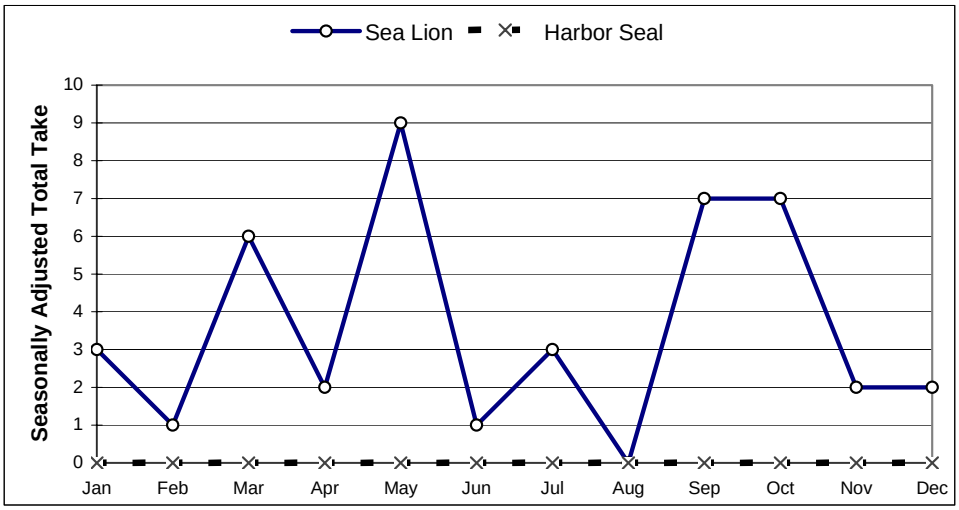
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with the exception of St. Paul Sea Lion: Zavadil, P.A., A. D. Lestenkof, M. T. Williams, and S. A. MacLean. 2004. The subsistence harvest of Steller sea lions on St. Paul Island in 2003. Note: Pribilof Islands harvests are based on 2003 Survey Estimates

Table 7. (cont.) SEA LION AND HARBOR SEAL HARVESTS: PRIBILOF ISLANDS, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	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	2	8.3%	2.0	8.3%	N/A	---	N/A	---
Juvenile Male	15	62.5%	15.0	62.5%	N/A	---	N/A	---
Juvenile Female	1	4.2%	1.0	4.2%	N/A	---	N/A	---
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	N/A	---	N/A	---
Pup Male	2	8.3%	2.0	8.3%	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	4	16.7%	4.0	16.7%	N/A	---	N/A	---
Total	24	100.0%	24.0	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

Year	Harvest	Struck/ Lost	Total Take
1992	176.6	120.2	296.8
1993	165.4	80.0	245.4
1994	149.8	43.5	193.3
1995	57.6	10.3	67.9
1996	32.2	14.2	46.4
1997	45.5	10.4	55.9
1998	52.7	25.4	78.1
2000	29.1	14.2	43.3
2001	19.0	19.0	38.0
2002	24.0	19.0	43.0
2003	22.3	9.7	32.0
2004	22.3	9.7	32.0

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	2.3	1.2	3.5
1993	2.3	1.2	3.5
1994	7.3	0.0	7.3
1995	2.5	0.0	2.5
1996	0.0	0.0	0.0
1997	0.0	0.0	0.0
1998	4.6	0.0	4.6
2000	N/A	N/A	N/A
2001	N/A	N/A	N/A
2002	N/A	N/A	N/A
2003	N/A	N/A	N/A
2004	N/A	N/A	N/A

SOURCES: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, as well as for St. Paul sea lion: 2002 - Zavadil, P.A., A. D. Lestenkof, M. T. Williams, and S. A. MacLean (2004) *The subsistence harvest of Steller sea lions on St. Paul Island in 2003* ; 2001 - Zavadil, P.A., A. D. Lestenkof, and M. T. Williams (2003) *The subsistence harvest of Steller sea lions on St. Paul Island in 2001;* 2000 - Lestenkof, A.D. and Zavadil, P.A. (2002) *1999-2001 Steller sea lion subsistence hunting report,* Aleut Community of St. Paul Island, Tribal Government, Ecosystem Conservation Office, St. Paul Island, Pribilof Islands, Alaska. Note: Pribilof Islands 2004 harvests are interim estimates based on 2003 survey estimates

Table 8. SEA LION AND HARBOR SEAL HARVESTS: SOUTH BRISTOL BAY, 2004

SAMPLING DESIGN:		Active	Other	Total
MIXED	Total Household Universe	91	80	171
	Surveyed Households	78	51	129
	Sampling Fraction	85.7%	63.8%	75.4%
	Sample Household Members	188	148	336
	Estimated Household Members	220.0	238.0	458.0
	2000 U.S. Census Estimated Native Population	---	---	951

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	N/A	N/A
Hunted	N/A	N/A
Harvested	N/A	N/A
Received	N/A	N/A
Gave Away	N/A	N/A

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	58.5
Total Number Struck and Lost	0.0	31.2
Total Number Taken	0.0	89.6
Number Harvested Per Capita	0.00	0.06

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	0	4	8	7	9	14	4	1	1	0	0	49
Struck & Lost	1	0	0	0	1	4	13	4	3	0	0	0	0	26
Total Take	2	0	0	4	9	11	22	18	7	1	1	0	0	75
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	0.0	0.0	4.3	9.6	7.9	12.0	16.7	4.9	1.0	1.1	0.0	0.0	58.5
Struck & Lost	1.0	0.0	0.0	0.0	1.3	5.3	16.1	4.2	3.2	0.0	0.0	0.0	0.0	31.2
Total Take	2.0	0.0	0.0	4.3	10.9	13.2	28.1	20.9	8.1	1.0	1.1	0.0	0.0	89.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	0.0	0.0	4.3	9.6	7.9	12.0	16.7	4.9	1.0	1.1	0.0		58.5
Struck & Lost	1.0	0.0	0.0	0.0	1.3	5.3	16.1	4.2	3.2	0.0	0.0	0.0		31.2
Total Take	2.0	0.0	0.0	4.3	10.9	13.2	28.1	20.9	8.1	1.0	1.1	0.0		89.6
Total Take (%)	2.2%	0.0%	0.0%	4.8%	12.2%	14.7%	31.4%	23.4%	9.0%	1.1%	1.2%	0.0%		100%
Cum. Take	2.0	2.0	2.0	6.3	17.2	30.4	58.5	79.4	87.5	88.5	89.6	89.6		
Cum. Take (%)	2.2%	2.2%	2.2%	7.0%	19.2%	33.9%	65.3%	88.7%	97.7%	98.8%	100.0%	100.0%		

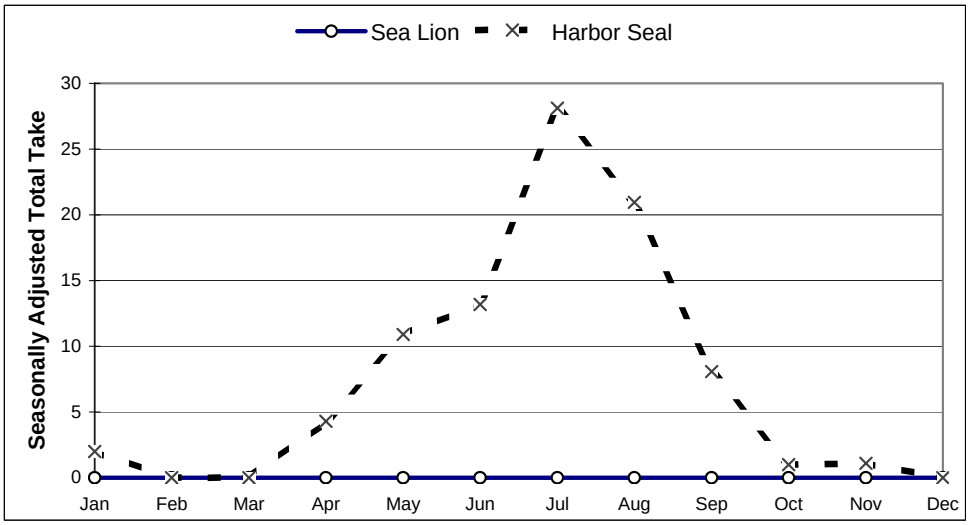
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 8. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTH BRISTOL BAY, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	19	38.8%	25.2	43.1%
Adult Female	0	---	0.0	---	8	16.3%	9.3	15.9%
Adult Unknown Sex	0	---	0.0	---	13	26.5%	13.9	23.7%
Juvenile Male	0	---	0.0	---	1	2.0%	2.1	3.6%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	3	6.1%	3.0	5.1%
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	---	5	10.2%	5.0	8.6%
Total	0	---	0.0	---	49	100.0%	58.5	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 9. SEA LION AND HARBOR SEAL HARVESTS: NORTH BRISTOL BAY, 2004

SAMPLING DESIGN:		Active	Other	Total
MIXED	Total Household Universe	176	235	411
	Surveyed Households	120	134	254
	Sampling Fraction	68.2%	57.0%	61.8%
	Sample Household Members	487	516	1003
	Estimated Household Members	695.5	859.1	1554.6
	2000 U.S. Census Estimated Native Population	---	---	2952

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal and Spotted Seal
Used	N/A	N/A
Hunted	N/A	N/A
Harvested	N/A	N/A
Received	N/A	N/A
Gave Away	N/A	N/A

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal	Spotted Seal
Total Number Harvested	1.2	17.6	123.8
Total Number Struck and Lost	0.0	11.7	46.5
Total Number Taken	1.2	29.3	170.4
Number Harvested Per Capita	0.00	0.01	0.04

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	1	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	0	1	0	0	0	1
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	1.2	0.0	0.0	0.0	1.2
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	0.0	1.2	0.0	0.0	0.0	1.2
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	1.2	0.0	0.0		1.2
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	0.0	1.2	0.0	0.0		1.2
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%		100%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%		

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH

	Spotted 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	2	5	6	18	21	1	0	3	8	8	7	7	5	91
Struck & Lost	0	1	0	4	2	0	0	0	4	0	1	0	26	38
Total Take	2	6	6	22	23	1	0	3	12	8	8	7	31	129
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.0	6.6	13.1	30.9	32.4	1.1	0.0	3.5	11.4	12.1	10.6	9.7	7.1	141.5
Struck & Lost	0.0	1.1	0.0	6.3	4.1	0.0	0.0	0.0	6.4	0.0	1.5	0.0	38.8	58.2
Total Take	3.0	7.7	13.1	37.1	36.5	1.1	0.0	3.5	17.8	12.1	12.1	9.7	45.9	199.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.2	7.1	13.4	31.9	34.2	1.2	0.0	4.1	12.4	12.7	11.1	10.3		141.5
Struck & Lost	0.0	5.9	0.0	25.3	13.8	0.0	0.0	1.2	10.5	0.0	1.5	0.0		58.2
Total Take	3.2	13.0	13.4	57.2	48.0	1.2	0.0	5.3	22.9	12.7	12.6	10.3		199.7
Total Take (%)	1.6%	6.5%	6.7%	28.6%	24.0%	0.6%	0.0%	2.6%	11.4%	6.4%	6.3%	5.2%		100.0%
Cum. Take	3.2	16.2	29.6	86.7	134.7	135.9	135.9	141.2	164.0	176.7	189.4	199.7		
Cum. Take (%)	1.6%	8.1%	14.8%	43.4%	67.5%	68.1%	68.1%	70.7%	82.2%	88.5%	94.8%	100.0%		

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

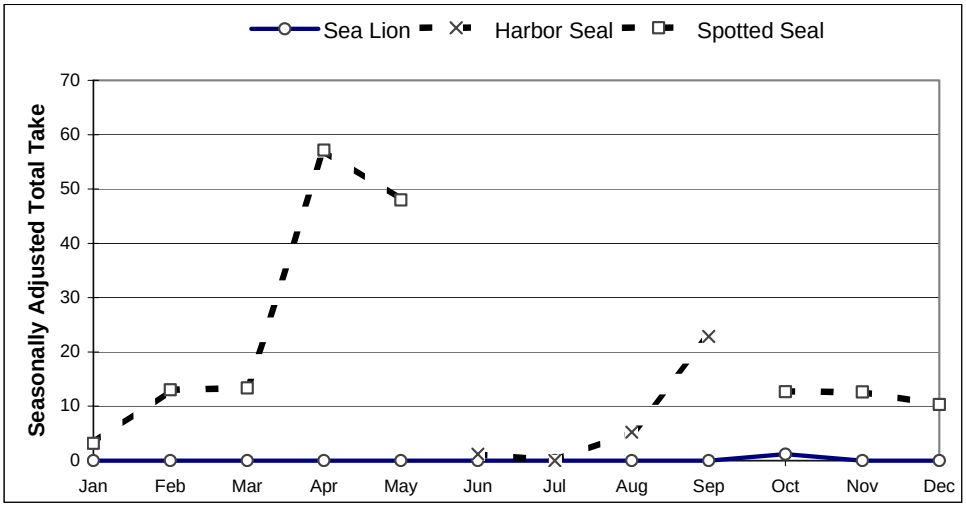
Table 9. (cont.) SEA LION AND HARBOR SEAL HARVESTS: NORTH BRISTOL BAY, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal				Spotted Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample*		Community Est. (Expanded)		Reported by Sample*		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	1	8.3%	1.7	9.8%	10	13.5%	13.5	10.8%
Adult Female	0	0.0%	0.0	0.0%	1	8.3%	1.7	9.8%	1	1.4%	1.5	1.2%
Adult Unknown Sex	0	0.0%	0.0	0.0%	3	25.0%	3.7	21.6%	15	20.3%	30.9	24.9%
Juvenile Male	1	100.0%	1.2	100.0%	3	25.0%	4.0	23.3%	19	25.7%	28.7	23.1%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	4	5.4%	6.0	4.9%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	2	16.7%	3.6	20.9%	14	18.9%	27.2	21.9%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	3	4.1%	4.5	3.6%
Pup Female	0	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%	1	8.3%	1.2	6.8%	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	0.0%
Female Unknown Age	0	0.0%	0.0	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%	1	8.3%	1.3	7.9%	8	10.8%	11.9	9.6%
Total	1	100.0%	1.2	100.0%	12	100.0%	17.2	100.0%	74	100.0%	124.3	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

Year	Harvest	Struck/ Lost	Total Take
1992	7.8	0.0	7.8
1993	3.3	3.3	6.5
1994	1.2	0.0	1.2
1995	0.0	0.0	0.0
1996	0.0	0.0	0.0
1997	3.6	0.0	3.6
1998	0.0	0.0	0.0
2000	0.0	0.0	0.0
2001	0.0	0.0	0.0
2002	0.0	0.0	0.0
2003	0.0	0.0	0.0
2004	1.2	0.0	1.2

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	58.4	13.2	71.6
1993	46.1	20.0	66.1
1994	16.2	3.3	19.5
1995	25.9	2.4	28.3
1996	29.6	10.0	39.6
1997	18.8	2.1	20.9
1998	33.2	3.6	36.8
2000	10.4	1.1	11.6
2001	8.8	1.2	10.0
2002	15.5	7.4	23.0
2003	29.8	1.4	31.2
2004	17.6	11.7	29.3

SPOTTED SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	364.1	72.5	436.6
1993	215.1	49.1	264.1
1994	226.5	42.9	269.5
1995	163.7	33.5	197.2
1996	202.1	25.0	227.1
1997	133.6	16.6	150.2
1998	145.9	25.4	171.3
2000	217.0	40.4	257.5
2001	105.9	20.8	126.6
2002	184.5	44.6	229.1
2003	52.3	10.0	62.3
2004	123.8	46.5	170.4

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

APPENDIX C

SUBSISTENCE TAKES OF HARBOR SEAL AND SEA LION BY COMMUNITY

SOUTHEAST ALASKA

1-2	Angoon
3-4	Craig
5-6	Haines
7-8	Hoonah
9-10	Hydaburg
11-12	Juneau
13-14	Kake
15-16	Ketchikan
17-18	Klawock
19-20	Klukwan
21-22	Pelican
23-24	Petersburg
25-26	Saxman
27-28	Sitka
29-30	Wrangell
31-32	Yakutat

NORTH PACIFIC RIM

33-34	Chenega Bay
35-36	Cordova
37-38	Nanwalek
39-40	Port Graham
41-42	Seldovia
43-44	Seward
45-46	Tatitlek
47-48	Valdez

UPPER KENAI-COOK INLET

49-50	Anchorage
51-52	Homer
53-54	Kenai
55-56	Tyonek

KODIAK ISLAND

57-58	Akhiok
59-60	Karluk
61-62	Kodiak City
63-64	Larsen Bay
65-66	Old Harbor
67-68	Ouzinkie
69-70	Port Lions

SOUTH ALASKA PENINSULA

71-72	Chignik Bay
73-74	Chignik Lagoon
75-76	Chignik Lake
77-78	False Pass
79-80	Ivanof Bay
81-82	King Cove
83-84	Perryville
85-86	Sand Point

ALEUTIAN ISLANDS

87-88	Adak
89-90	Akutan
91-92	Atka
93-94	Nikolski
95-96	Unalaska

PRIBILOF ISLANDS

97-98	St. George
99-100	St. Paul

SOUTH BRISTOL BAY

101-102	Egegik
103-104	King Salmon
105-106	Levelock
107-108	Naknek
109-110	Pilot Point
111-112	Port Heiden
113-114	South Naknek

NORTH BRISTOL BAY

115-116	Aleknagik
117-118	Clark's Point
119-120	Dillingham
121-122	Manokotak
123-124	Togiak
125-126	Twin Hills

Table 1. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Angoon, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	40
Surveyed Households	38
Sampling Fraction	95.0%
Sample Household Members	141
Estimated Household Members	148.4
2000 U.S. Census Estimated Native Population	494

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	100.0%
Hunted	0.0%	44.7%
Harvested	0.0%	44.7%
Received	0.0%	63.2%
Gave Away	0.0%	47.4%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	47.4
Total Number Struck and Lost	0.0	3.2
Total Number Taken	0.0	50.5
Number Harvested Per Capita	0.00	0.10

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	2	1	0	0	0	0	1	16	8	10	4	0	45
Struck & Lost	0	0	0	0	0	0	0	0	2	0	0	1	0	3
Total Take	3	2	1	0	0	0	0	1	18	8	10	5	0	48
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.2	2.1	1.1	0.0	0.0	0.0	0.0	1.1	16.8	8.4	10.5	4.2	0.0	47.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	1.1	0.0	3.2
Total Take	3.2	2.1	1.1	0.0	0.0	0.0	0.0	1.1	18.9	8.4	10.5	5.3	0.0	50.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.2	2.1	1.1	0.0	0.0	0.0	0.0	1.1	16.8	8.4	10.5	4.2		47.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	1.1		3.2
Total Take	3.2	2.1	1.1	0.0	0.0	0.0	0.0	1.1	18.9	8.4	10.5	5.3		50.5
Total Take (%)	6.3%	4.2%	2.1%	0.0%	0.0%	0.0%	0.0%	2.1%	37.5%	16.7%	20.8%	10.4%		100.0%
Cum. Take	3.2	5.3	6.3	6.3	6.3	6.3	6.3	7.4	26.3	34.7	45.3	50.5		
Cum. Take (%)	6.3%	10.4%	12.5%	12.5%	12.5%	12.5%	12.5%	14.6%	52.1%	68.8%	89.6%	100.0%		

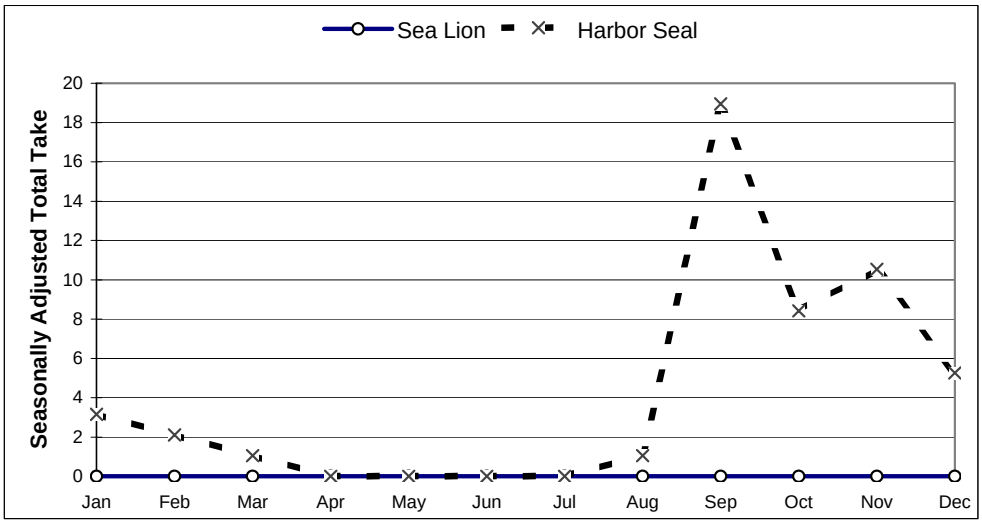
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Angoon and Angoon Community Association, 2005.

Table 1. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Angoon, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	31	68.9%	32.6	68.9%
Adult Female	0	---	0.0	---	5	11.1%	5.3	11.1%
Adult Unknown Sex	0	---	0.0	---	2	4.4%	2.1	4.4%
Juvenile Male	0	---	0.0	---	6	13.3%	6.3	13.3%
Juvenile Female	0	---	0.0	---	1	2.2%	1.1	2.2%
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	---	45	100.0%	47.4	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Angoon and Angoon Community Association, 2005.

Table 2. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Craig, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	22
Surveyed Households	20
Sampling Fraction	90.9%
Sample Household Members	50
Estimated Household Members	55.0
2000 U.S. Census Estimated Native Population	432

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	15.0%	75.0%
Hunted	15.0%	50.0%
Harvested	15.0%	50.0%
Received	0.0%	35.0%
Gave Away	5.0%	50.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	3.3	29.7
Total Number Struck and Lost	0.0	5.5
Total Number Taken	3.3	35.2
Number Harvested Per Capita	0.01	0.07

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	1	2	0	0	0	0	0	0	3
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	1	2	0	0	0	0	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.1	2.2	0.0	0.0	0.0	0.0	0.0	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	1.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	3.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.1	2.2	0.0	0.0	0.0	0.0	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
Total Take	0.0	0.0	0.0	0.0	0.0	1.1	2.2	0.0	0.0	0.0	0.0	0.0		3.3
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	66.7%	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	3.3	3.3	3.3	3.3	3.3	3.3		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	6	4	4	2	0	3	3	0	0	0	0	5	0	27
Struck & Lost	1	2	0	1	0	0	0	1	0	0	0	0	0	5
Total Take	7	6	4	3	0	3	3	1	0	0	0	5	0	32
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.6	4.4	4.4	2.2	0.0	3.3	3.3	0.0	0.0	0.0	0.0	5.5	0.0	29.7
Struck & Lost	1.1	2.2	0.0	1.1	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	5.5
Total Take	7.7	6.6	4.4	3.3	0.0	3.3	3.3	1.1	0.0	0.0	0.0	5.5	0.0	35.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.6	4.4	4.4	2.2	0.0	3.3	3.3	0.0	0.0	0.0	0.0	5.5		29.7
Struck & Lost	1.1	2.2	0.0	1.1	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0		5.5
Total Take	7.7	6.6	4.4	3.3	0.0	3.3	3.3	1.1	0.0	0.0	0.0	5.5		35.2
Total Take (%)	21.9%	18.8%	12.5%	9.4%	0.0%	9.4%	9.4%	3.1%	0.0%	0.0%	0.0%	15.6%		100.0%
Cum. Take	7.7	14.3	18.7	22.0	22.0	25.3	28.6	29.7	29.7	29.7	29.7	35.2		
Cum. Take (%)	21.9%	40.6%	53.1%	62.5%	62.5%	71.9%	81.3%	84.4%	84.4%	84.4%	84.4%	100.0%		

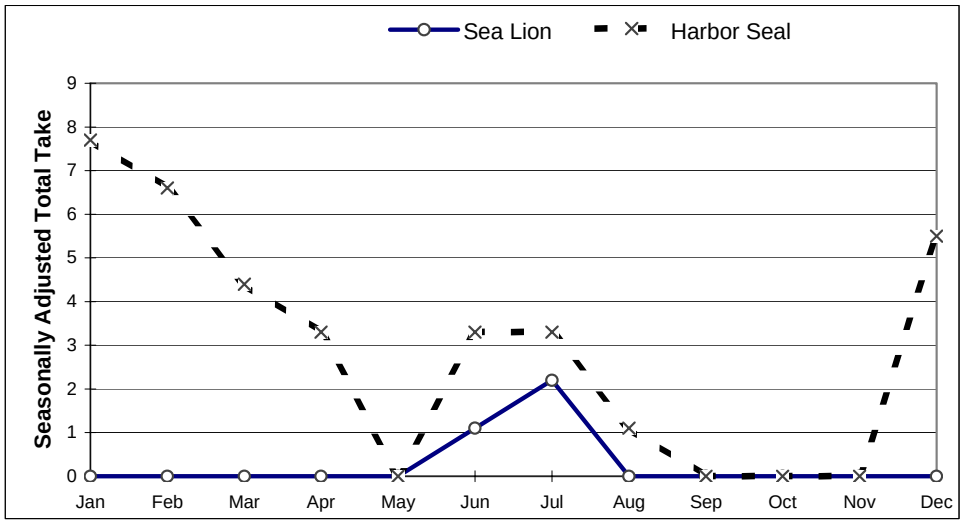
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Craig Community Association, 2005.

Table 2. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Craig, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	13	48.1%	14.3	48.1%
Adult Female	0	0.0%	0.0	0.0%	12	44.4%	13.2	44.4%
Adult Unknown Sex	2	66.7%	2.2	66.7%	1	3.7%	1.1	3.7%
Juvenile Male	1	33.3%	1.1	33.3%	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%	1	3.7%	1.1	3.7%
Total	3	100.0%	3.3	100.0%	27	100.0%	29.7	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	74.2	0.0	74.2
1993	0.0	0.0	0.0	1993	51.1	9.8	60.9
1994	0.0	0.0	0.0	1994	42.7	6.6	49.3
1995	0.0	0.0	0.0	1995	69.4	13.6	83.1
1996	0.0	0.0	0.0	1996	48.2	8.0	56.3
1997	0.0	0.0	0.0	1997	62.0	7.5	69.5
1998	0.0	0.0	0.0	1998	52.7	5.2	57.9
2000	0.0	0.0	0.0	2000	35.0	3.0	38.0
2001	0.0	0.0	0.0	2001	54.0	4.0	58.0
2002	0.0	0.0	0.0	2002	38.9	5.7	44.6
2003	0.0	0.0	0.0	2003	28.0	6.0	34.0
2004	3.3	0.0	3.3	2004	29.7	5.5	35.2

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Craig Community Association, 2005.

Table 3. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Haines, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	17
Surveyed Households	17
Sampling Fraction	100.0%
Sample Household Members	50
Estimated Household Members	50.4
2000 U.S. Census Estimated Native Population	335

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	17.6%
Hunted	0.0%	17.6%
Harvested	0.0%	11.8%
Received	0.0%	5.9%
Gave Away	0.0%	11.8%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	7.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	7.0
Number Harvested Per Capita	0.00	0.02

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	0	0	0	0	0	0	0	0	6	0	0	7
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	0	0	6	0	0	7
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	7.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	7.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0		7.0
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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0		7.0
Total Take (%)	0.0%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	85.7%	0.0%		100.0%
Cum. Take	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	7.0	7.0		
Cum. Take (%)	0.0%	14.3%	14.3%	14.3%	14.3%	14.3%	14.3%	14.3%	14.3%	14.3%	100.0%	100.0%		

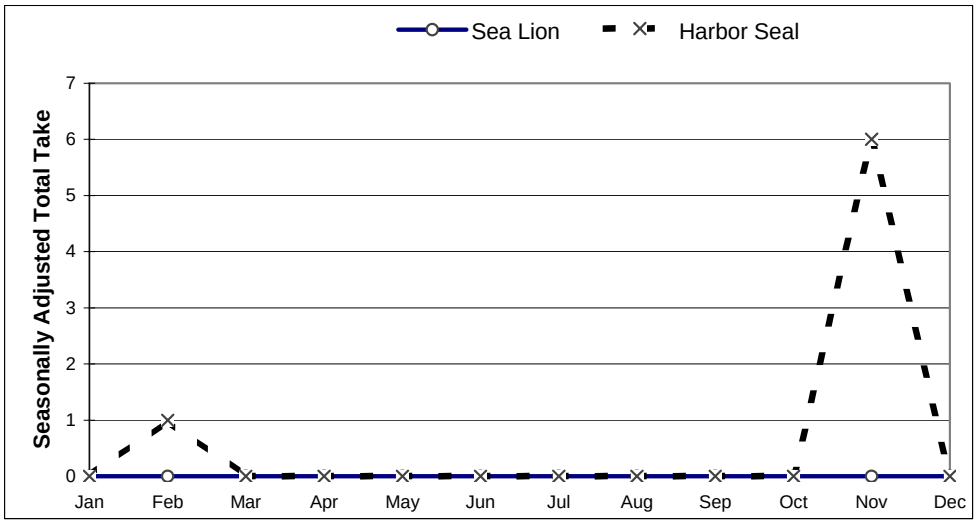
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkoot Indian Association, 2005.

Table 3. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Haines, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (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	---	7	100.0%	7.0	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	---	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				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkoot Indian Association, 2005.

Table 4. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Hoonah, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	54
Surveyed Households	30
Sampling Fraction	55.6%
Sample Household Members	91
Estimated Household Members	163.8
2000 U.S. Census Estimated Native Population	597

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	60.0%
Hunted	6.7%	40.0%
Harvested	0.0%	36.7%
Received	0.0%	50.0%
Gave Away	0.0%	33.3%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	106.2
Total Number Struck and Lost	7.2	9.0
Total Number Taken	7.2	115.2
Number Harvested Per Capita	0.00	0.18

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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	2	0	1	1	0	0	0	0	4
Total Take	0	0	0	0	0	2	0	1	1	0	0	0	0	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	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	3.6	0.0	1.8	1.8	0.0	0.0	0.0	0.0	7.2
Total Take	0.0	0.0	0.0	0.0	0.0	3.6	0.0	1.8	1.8	0.0	0.0	0.0	0.0	7.2
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	3.6	0.0	1.8	1.8	0.0	0.0	0.0		7.2
Total Take	0.0	0.0	0.0	0.0	0.0	3.6	0.0	1.8	1.8	0.0	0.0	0.0		7.2
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	25.0%	25.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	3.6	3.6	5.4	7.2	7.2	7.2	7.2		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	75.0%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	8	1	2	2	2	5	3	7	13	9	6	1	0	59
Struck & Lost	0	1	1	1	0	0	0	0	1	1	0	0	0	5
Total Take	8	2	3	3	2	5	3	7	14	10	6	1	0	64
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	14.4	1.8	3.6	3.6	3.6	9.0	5.4	12.6	23.4	16.2	10.8	1.8	0.0	106.2
Struck & Lost	0.0	1.8	1.8	1.8	0.0	0.0	0.0	0.0	1.8	1.8	0.0	0.0	0.0	9.0
Total Take	14.4	3.6	5.4	5.4	3.6	9.0	5.4	12.6	25.2	18.0	10.8	1.8	0.0	115.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	14.4	1.8	3.6	3.6	3.6	9.0	5.4	12.6	23.4	16.2	10.8	1.8		106.2
Struck & Lost	0.0	1.8	1.8	1.8	0.0	0.0	0.0	0.0	1.8	1.8	0.0	0.0		9.0
Total Take	14.4	3.6	5.4	5.4	3.6	9.0	5.4	12.6	25.2	18.0	10.8	1.8		115.2
Total Take (%)	12.5%	3.1%	4.7%	4.7%	3.1%	7.8%	4.7%	10.9%	21.9%	15.6%	9.4%	1.6%		100.0%
Cum. Take	14.4	18.0	23.4	28.8	32.4	41.4	46.8	59.4	84.6	102.6	113.4	115.2		
Cum. Take (%)	12.5%	15.6%	20.3%	25.0%	28.1%	35.9%	40.6%	51.6%	73.4%	89.1%	98.4%	100.0%		

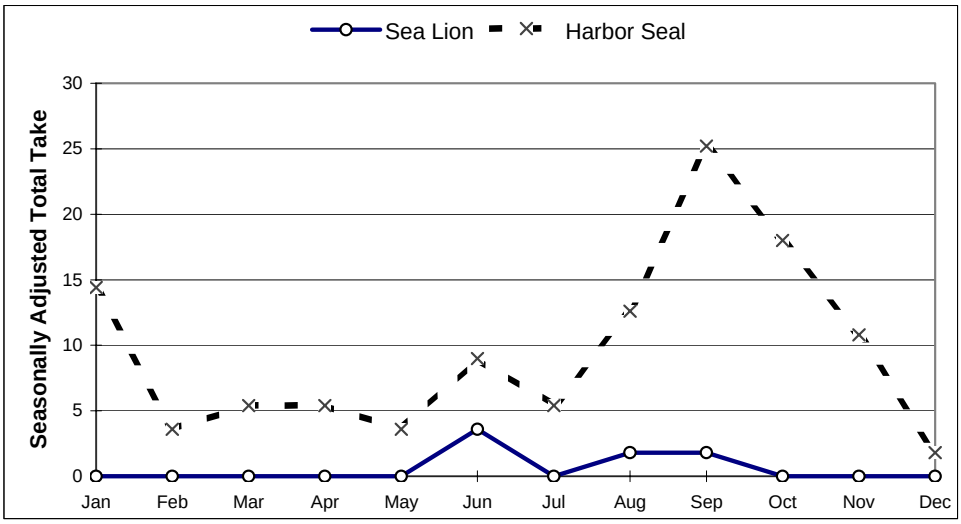
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Hoonah Indian Association, 2005.

Table 4. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Hoonah, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	38	64.4%	68.4	64.4%
Adult Female	0	---	0.0	---	16	27.1%	28.8	27.1%
Adult Unknown Sex	0	---	0.0	---	3	5.1%	5.4	5.1%
Juvenile Male	0	---	0.0	---	1	1.7%	1.8	1.7%
Juvenile Female	0	---	0.0	---	1	1.7%	1.8	1.7%
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	---	59	100.0%	106.2	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION

Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0
1993	0.0	0.0	0.0
1994	0.0	0.0	0.0
1995	0.0	0.0	0.0
1996	0.0	0.0	0.0
1997	0.0	0.0	0.0
1998	0.0	0.0	0.0
2000	0.0	0.0	0.0
2001	0.0	0.0	0.0
2002	0.0	0.0	0.0
2003	0.0	4.6	4.6
2004	0.0	7.2	7.2

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	350.2	24.8	375.0
1993	324.4	35.8	360.2
1994	240.7	15.0	255.8
1995	236.6	19.7	256.3
1996	359.7	48.6	408.3
1997	143.8	9.9	153.8
1998	169.7	19.8	189.6
2000	147.9	16.0	163.9
2001	143.4	13.2	156.7
2002	96.4	6.0	102.4
2003	52.2	10.4	62.6
2004	106.2	9.0	115.2

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Hoonah Indian Association, 2005.

Table 5. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Hydaburg, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	16
Surveyed Households	10
Sampling Fraction	62.5%
Sample Household Members	27
Estimated Household Members	43.2
2000 U.S. Census Estimated Native Population	342

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	40.0%
Hunted	0.0%	40.0%
Harvested	0.0%	40.0%
Received	0.0%	0.0%
Gave Away	0.0%	20.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	14.4
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	14.4
Number Harvested Per Capita	0.00	0.04

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
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 HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
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
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
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%		

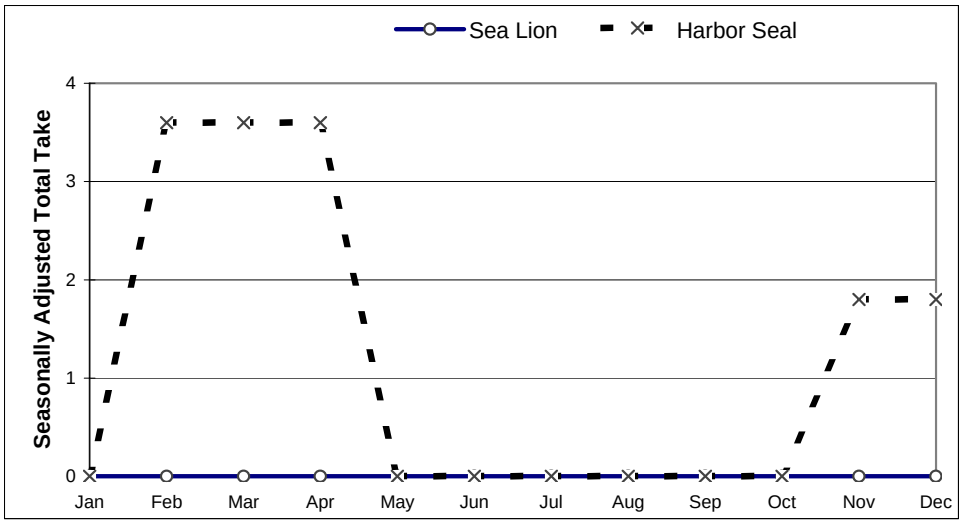
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Hydaburg and Haida Corporation. (Numbers based on 1998 survey estimates).

Table 5. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Hydaburg, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Hydaburg and Haida Corporation. (Numbers based on 1998 survey estimates).

Table 6. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Juneau, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	34
Surveyed Households	15
Sampling Fraction	44.1%
Sample Household Members	42
Estimated Household Members	95.4
2000 U.S. Census Estimated Native Population	5084

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	60.0%
Hunted	0.0%	33.3%
Harvested	0.0%	33.3%
Received	0.0%	46.7%
Gave Away	0.0%	33.3%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	13.6
Total Number Struck and Lost	0.0	9.1
Total Number Taken	0.0	22.7
Number Harvested Per Capita	0.00	0.00

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	1	0	0	0	0	0	2	0	0	1	1	6
Struck & Lost	0	0	0	0	0	0	3	0	0	0	1	0	0	4
Total Take	1	0	1	0	0	0	3	0	2	0	1	1	1	10
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.3	0.0	2.3	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	2.3	2.3	13.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0	2.3	0.0	0.0	9.1
Total Take	2.3	0.0	2.3	0.0	0.0	0.0	6.8	0.0	4.5	0.0	2.3	2.3	2.3	22.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.7	0.0	2.7	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	2.7		13.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0	2.3	0.0		9.1
Total Take	2.7	0.0	2.7	0.0	0.0	0.0	6.8	0.0	5.4	0.0	2.3	2.7		22.7
Total Take (%)	12.0%	0.0%	12.0%	0.0%	0.0%	0.0%	30.0%	0.0%	24.0%	0.0%	10.0%	12.0%		100.0%
Cum. Take	2.7	2.7	5.4	5.4	5.4	5.4	12.2	12.2	17.7	17.7	19.9	22.7		
Cum. Take (%)	12.0%	12.0%	24.0%	24.0%	24.0%	24.0%	54.0%	54.0%	78.0%	78.0%	88.0%	100.0%		

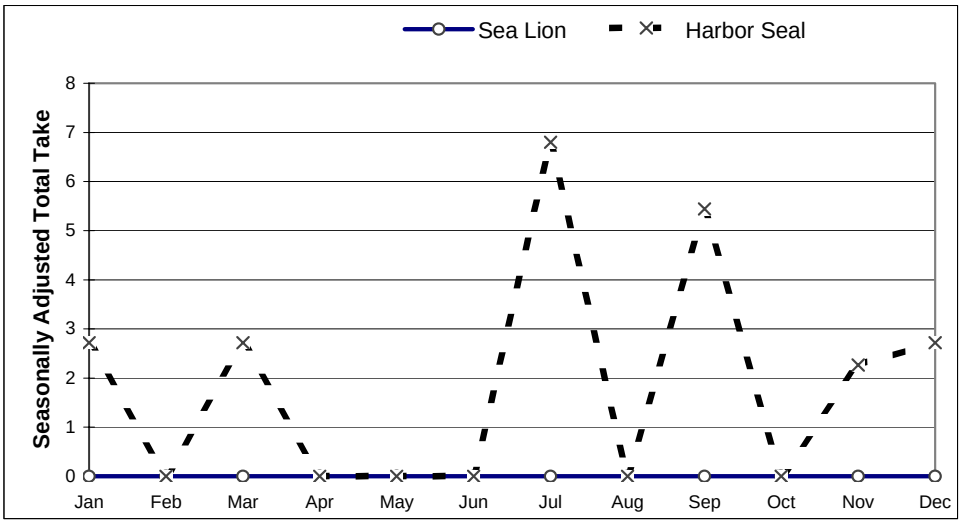
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tlingit and Haida Central Council, Sealaska, Auke Tribe Council, and ANB/ANS, 2005.

Table 6. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Juneau, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	1	16.7%	2.3	16.7%
Adult Female	0	---	0.0	---	3	50.0%	6.8	50.0%
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	---	1	16.7%	2.3	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	---	1	16.7%	2.3	16.7%
Total	0	---	0.0	---	6	100.0%	13.6	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tlingit and Haida Central Council, Sealaska, Auke Tribe Council, and ANB/ANS, 2005.

Table 7. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kake, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	40
Surveyed Households	37
Sampling Fraction	92.5%
Sample Household Members	116
Estimated Household Members	125.4
2000 U.S. Census Estimated Native Population	530

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	94.6%
Hunted	0.0%	54.1%
Harvested	0.0%	51.4%
Received	0.0%	59.5%
Gave Away	0.0%	35.1%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	96.2
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	96.2
Number Harvested Per Capita	0.00	0.18

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	1	1	0	6	6	27	27	10	6	5	0	89
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	1	1	0	6	6	27	27	10	6	5	0	89
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.1	1.1	0.0	6.5	6.5	29.2	29.2	10.8	6.5	5.4	0.0	96.2
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	1.1	1.1	0.0	6.5	6.5	29.2	29.2	10.8	6.5	5.4	0.0	96.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.1	1.1	0.0	6.5	6.5	29.2	29.2	10.8	6.5	5.4		96.2
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	1.1	1.1	0.0	6.5	6.5	29.2	29.2	10.8	6.5	5.4		96.2
Total Take (%)	0.0%	0.0%	1.1%	1.1%	0.0%	6.7%	6.7%	30.3%	30.3%	11.2%	6.7%	5.6%		100.0%
Cum. Take	0.0	0.0	1.1	2.2	2.2	8.6	15.1	44.3	73.5	84.3	90.8	96.2		
Cum. Take (%)	0.0%	0.0%	1.1%	2.2%	2.2%	9.0%	15.7%	46.1%	76.4%	87.6%	94.4%	100.0%		

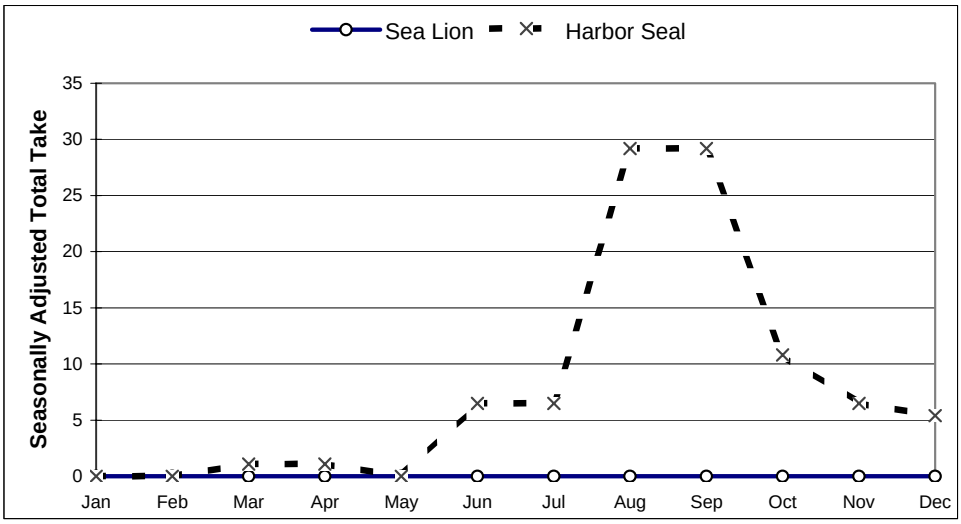
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Organized Village of Kake and City of Kake, 2005.

Table 7. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kake, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	70	78.7%	75.7	78.7%
Adult Female	0	---	0.0	---	19	21.3%	20.5	21.3%
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	---	89	100.0%	96.2	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Organized Village of Kake and City of Kake, 2005.

Table 8. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ketchikan, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	3
Surveyed Households	3
Sampling Fraction	100.0%
Sample Household Members	7
Estimated Household Members	7.0
2000 U.S. Census Estimated Native Population	1802

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	66.7%
Hunted	0.0%	66.7%
Harvested	0.0%	66.7%
Received	0.0%	33.3%
Gave Away	0.0%	33.3%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	60.0
Total Number Struck and Lost	0.0	5.0
Total Number Taken	0.0	65.0
Number Harvested Per Capita	0.00	0.03

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	60	60
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	65	65
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	60.0	60.0
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	5.0	5.0
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	65.0	65.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0		60.0
Struck & Lost	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4		5.0
Total Take	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4		65.0
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	5.4	10.8	16.3	21.7	27.1	32.5	37.9	43.3	48.8	54.2	59.6	65.0		
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%		

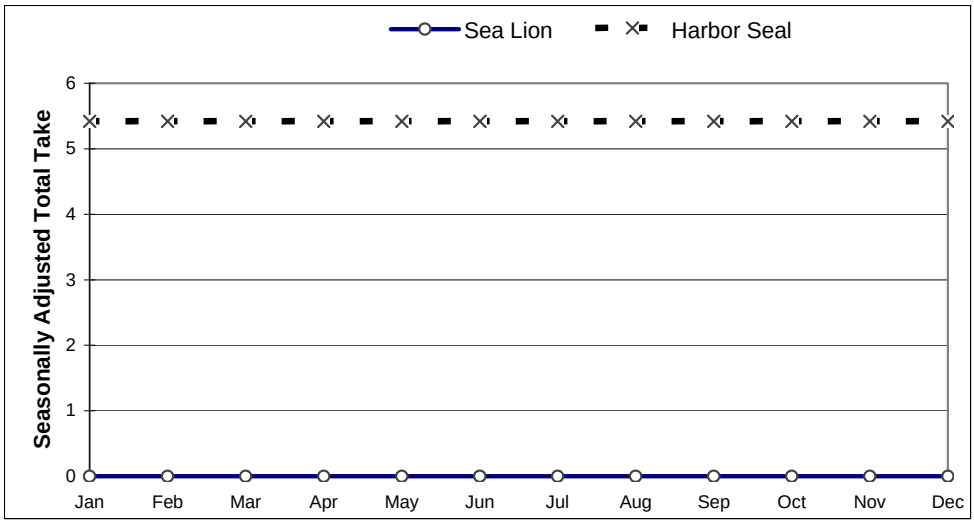
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ketchikan Indian Community, 2005.

Table 8. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ketchikan, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	12	20.0%	12.0	20.0%
Adult Female	0	---	0.0	---	3	5.0%	3.0	5.0%
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	---	45	75.0%	45.0	75.0%
Total	0	---	0.0	---	60	100.0%	60.0	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ketchikan Indian Community, 2005.

Table 9. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Klawock, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	33
Surveyed Households	26
Sampling Fraction	78.8%
Sample Household Members	83
Estimated Household Members	105.3
2000 U.S. Census Estimated Native Population	496

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	3.8%	57.7%
Hunted	3.8%	34.6%
Harvested	3.8%	30.8%
Received	3.8%	30.8%
Gave Away	3.8%	26.9%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	1.3	29.2
Total Number Struck and Lost	0.0	7.6
Total Number Taken	1.3	36.8
Number Harvested Per Capita	0.00	0.06

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	0	0	0	0	0	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	1	0	0	0	0	0	0	0	0	0	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
Total Take	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.3
Total Take (%)	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3		
Cum. Take (%)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	7	1	9	4	1	1	0	0	0	0	0	0	0	23
Struck & Lost	0	2	0	0	2	0	2	0	0	0	0	0	0	6
Total Take	7	3	9	4	3	1	2	0	0	0	0	0	0	29
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	8.9	1.3	11.4	5.1	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.2
Struck & Lost	0.0	2.5	0.0	0.0	2.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	7.6
Total Take	8.9	3.8	11.4	5.1	3.8	1.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	36.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	8.9	1.3	11.4	5.1	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0		29.2
Struck & Lost	0.0	2.5	0.0	0.0	2.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0		7.6
Total Take	8.9	3.8	11.4	5.1	3.8	1.3	2.5	0.0	0.0	0.0	0.0	0.0		36.8
Total Take (%)	24.1%	10.3%	31.0%	13.8%	10.3%	3.4%	6.9%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	8.9	12.7	24.1	29.2	33.0	34.3	36.8	36.8	36.8	36.8	36.8	36.8		
Cum. Take (%)	24.1%	34.5%	65.5%	79.3%	89.7%	93.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

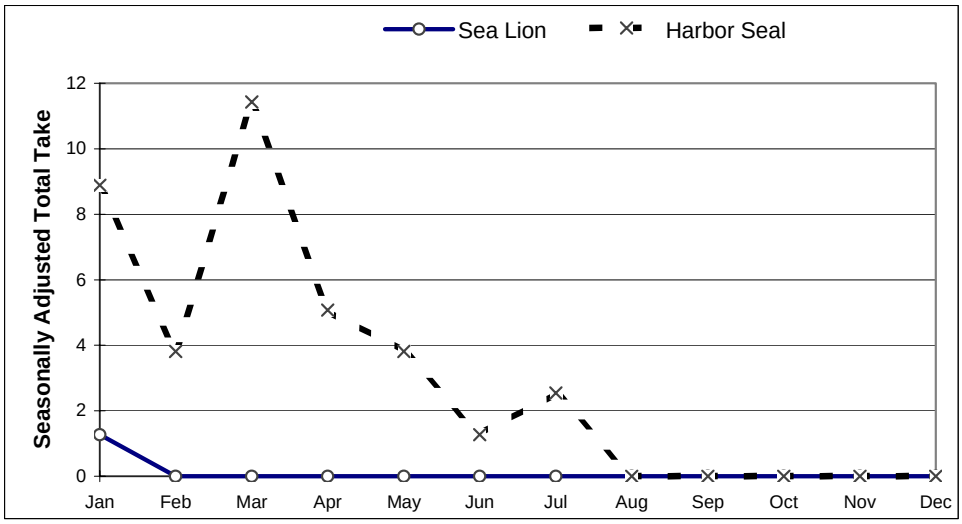
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Klawock Cooperative Association and Klawock Heenya Corporation, 2005.

Table 9. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Klawock, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	12	52.2%	15.2	52.2%
Adult Female	0	0.0%	0.0	0.0%	2	8.7%	2.5	8.7%
Adult Unknown Sex	1	100.0%	1.3	100.0%	6	26.1%	7.6	26.1%
Juvenile Male	0	0.0%	0.0	0.0%	1	4.3%	1.3	4.3%
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	4.3%	1.3	4.3%
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%	1	4.3%	1.3	4.3%
Total	1	100.0%	1.3	100.0%	23	100.0%	29.2	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Klawock Cooperative Association and Klawock Heenya Corporation, 2005.

Table 10. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Klukwan, 2004

SAMPLING DESIGN:
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 Households:

	Sea Lion	Harbor Seal
Used	0.0%	100.0%
Hunted	0.0%	0.0%
Harvested	0.0%	0.0%
Received	0.0%	100.0%
Gave Away	0.0%	0.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	0.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	0.0
Number Harvested Per Capita	0.00	0.00

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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 (%)	---	---	---	---	---	---	---	---	---	---	---	---		

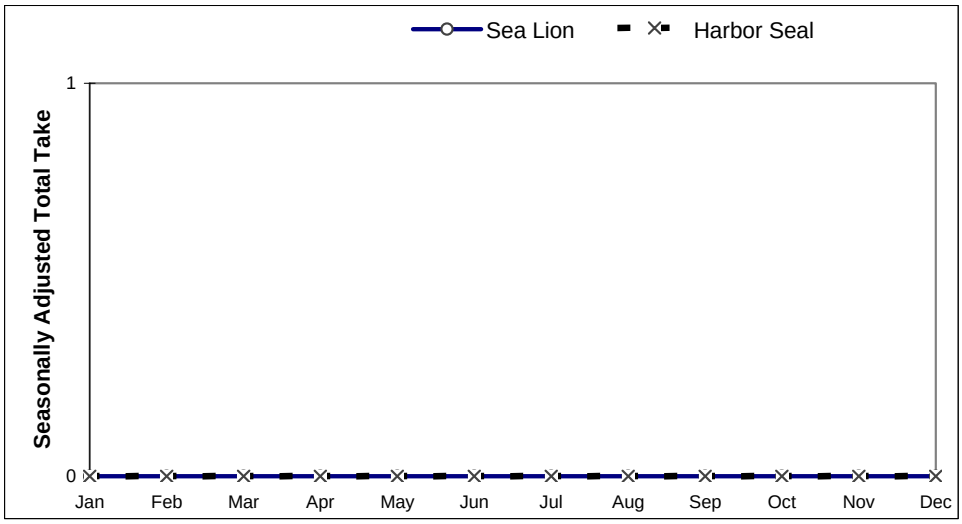
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Village. (Numbers based on 2001 survey estimates).

Table 10. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Klukwan, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (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				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Village. (Numbers based on 2001 survey estimates).

Table 11. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Pelican, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	7
Surveyed Households	4
Sampling Fraction	57.1%
Sample Household Members	9
Estimated Household Members	15.8
2000 U.S. Census Estimated Native Population	42

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	50.0%
Hunted	0.0%	25.0%
Harvested	0.0%	25.0%
Received	0.0%	25.0%
Gave Away	0.0%	25.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	1.8
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	1.8
Number Harvested Per Capita	0.00	0.04

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	1	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	0	1	0	0	0	1
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	1.8	0.0	0.0	0.0	1.8
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	1.8	0.0	0.0	0.0	1.8
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	1.8	0.0	0.0		1.8
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	1.8	0.0	0.0		1.8
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%		

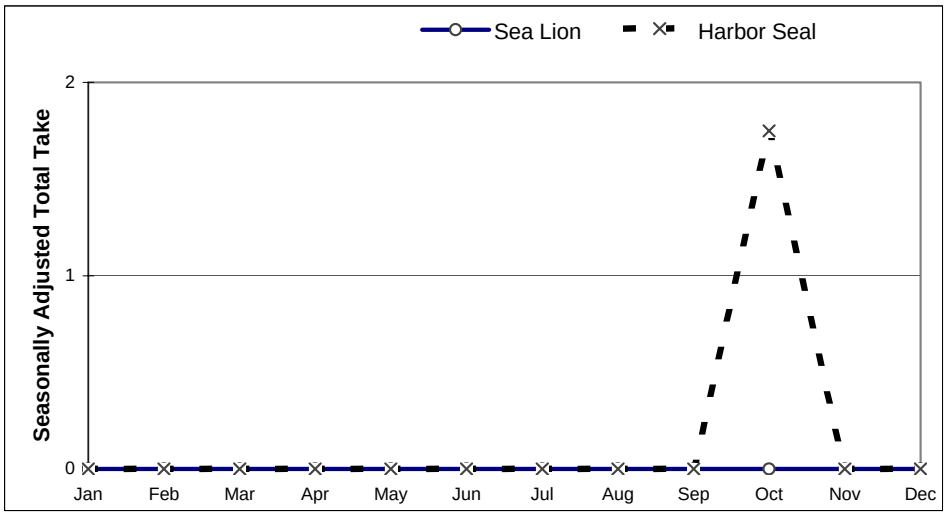
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Pelican, Tlingit and Haida Indians of Pelican Community Council, 2002. (Numbers based on 2002 Esti

Table 11. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Pelican, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Female	0	---	0.0	---	1	100.0%	1.8	100.0%
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%	1.8	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Pelican, Tlingit and Haida Indians of Pelican Community Council, 2002.

(Numbers based on 2002 survey estimates)

Table 12. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Petersburg, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	30
Surveyed Households	29
Sampling Fraction	96.7%
Sample Household Members	95
Estimated Household Members	98.3
2000 U.S. Census Estimated Native Population	388

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	96.6%
Hunted	0.0%	31.0%
Harvested	0.0%	20.7%
Received	0.0%	75.9%
Gave Away	0.0%	55.2%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	10.3
Total Number Struck and Lost	0.0	8.3
Total Number Taken	0.0	18.6
Number Harvested Per Capita	0.00	0.03

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	0	0	0	0	0	0	1	1	4	3	0	10
Struck & Lost	1	0	0	0	0	0	0	0	3	1	2	1	0	8
Total Take	2	0	0	0	0	0	0	0	4	2	6	4	0	18
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	4.1	3.1	0.0	10.3
Struck & Lost	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	1.0	2.1	1.0	0.0	8.3
Total Take	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	2.1	6.2	4.1	0.0	18.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	4.1	3.1		10.3
Struck & Lost	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	1.0	2.1	1.0		8.3
Total Take	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	2.1	6.2	4.1		18.6
Total Take (%)	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	22.2%	11.1%	33.3%	22.2%		100.0%
Cum. Take	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	6.2	8.3	14.5	18.6		
Cum. Take (%)	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	33.3%	44.4%	77.8%	100.0%		

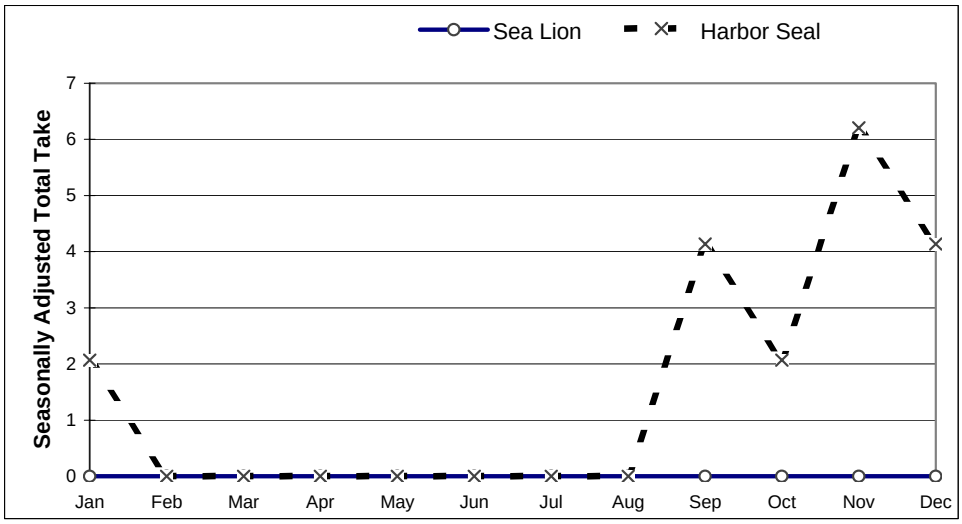
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Petersburg Indian Association, 2005.

Table 12. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Petersburg, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	6	60.0%	6.2	60.0%
Adult Female	0	---	0.0	---	3	30.0%	3.1	30.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	1	10.0%	1.0	10.0%
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	---	10	100.0%	10.3	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Petersburg Indian Association, 2005.

Table 13. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Saxman, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	15
Surveyed Households	3
Sampling Fraction	20.0%
Sample Household Members	13
Estimated Household Members	65.0
2000 U.S. Census Estimated Native Population	302

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	33.3%
Hunted	0.0%	33.3%
Harvested	0.0%	33.3%
Received	0.0%	0.0%
Gave Away	0.0%	33.3%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	5.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	5.0
Number Harvested Per Capita	0.00	0.02

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
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 HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	5.0
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	5.0	0.0	0.0	0.0	0.0	5.0
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	5.0	0.0	0.0	0.0		5.0
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	5.0	0.0	0.0	0.0		5.0
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	5.0	5.0	5.0	5.0		
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%		

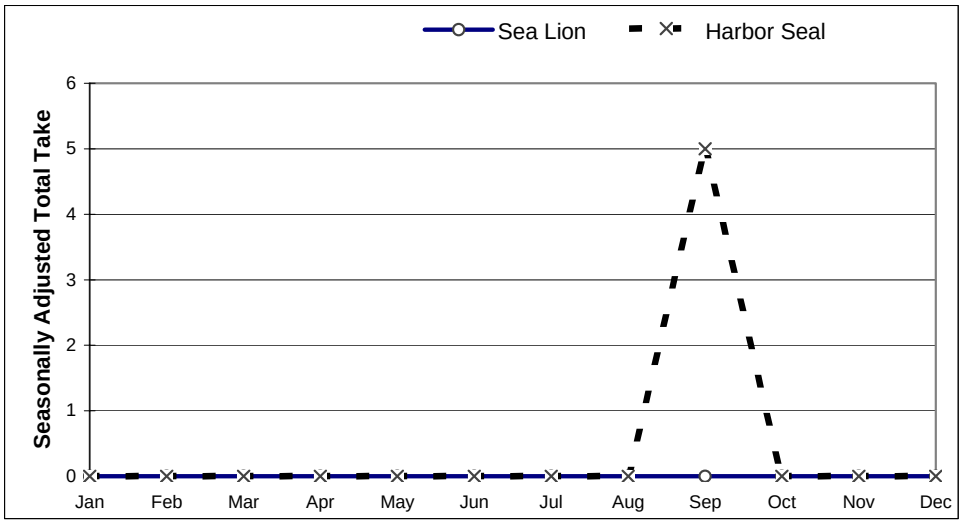
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Organized Village of Saxman, 2005.

Table 13. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Saxman, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	1	100.0%	5.0	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	---	1	100.0%	5.0	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Organized Village of Saxman, 2005.

Table 14. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Sitka, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	65
Surveyed Households	64
Sampling Fraction	98.5%
Sample Household Members	209
Estimated Household Members	211.8
2000 U.S. Census Estimated Native Population	2178

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	79.7%
Hunted	0.0%	54.7%
Harvested	0.0%	53.1%
Received	0.0%	26.6%
Gave Away	0.0%	62.5%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	141.2
Total Number Struck and Lost	0.0	19.3
Total Number Taken	0.0	160.5
Number Harvested Per Capita	0.00	0.06

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	9	20	26	20	0	5	1	4	8	14	16	16	0	139
Struck & Lost	2	3	0	1	0	0	0	0	0	4	2	3	4	19
Total Take	11	23	26	21	0	5	1	4	8	18	18	19	4	158
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	9.1	20.3	26.4	20.3	0.0	5.1	1.0	4.1	8.1	14.2	16.3	16.3	0.0	141.2
Struck & Lost	2.0	3.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	4.1	2.0	3.0	4.1	19.3
Total Take	11.2	23.4	26.4	21.3	0.0	5.1	1.0	4.1	8.1	18.3	18.3	19.3	4.1	160.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	9.1	20.3	26.4	20.3	0.0	5.1	1.0	4.1	8.1	14.2	16.3	16.3		141.2
Struck & Lost	2.6	3.9	0.0	1.3	0.0	0.0	0.0	0.0	0.0	5.1	2.6	3.9		19.3
Total Take	11.7	24.2	26.4	21.6	0.0	5.1	1.0	4.1	8.1	19.4	18.8	20.1		160.5
Total Take (%)	7.3%	15.1%	16.5%	13.5%	0.0%	3.2%	0.6%	2.5%	5.1%	12.1%	11.7%	12.5%		100.0%
Cum. Take	11.7	35.9	62.3	83.9	83.9	89.0	90.0	94.0	102.2	121.5	140.4	160.5		
Cum. Take (%)	7.3%	22.4%	38.8%	52.3%	52.3%	55.4%	56.1%	58.6%	63.7%	75.7%	87.5%	100.0%		

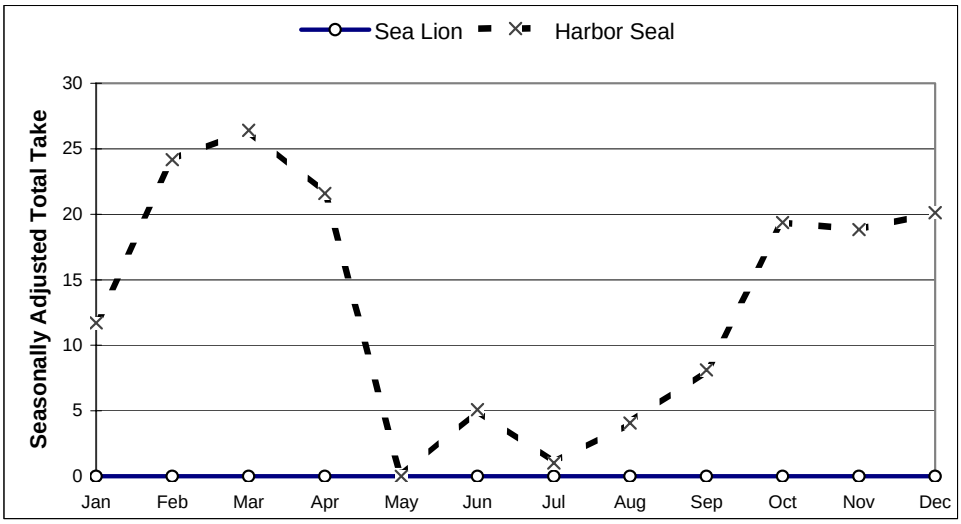
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Sitka Tribe of Alaska, 2005.

Table 14. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Sitka, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	67	48.2%	68.0	48.2%
Adult Female	0	---	0.0	---	34	24.5%	34.5	24.5%
Adult Unknown Sex	0	---	0.0	---	6	4.3%	6.1	4.3%
Juvenile Male	0	---	0.0	---	16	11.5%	16.3	11.5%
Juvenile Female	0	---	0.0	---	8	5.8%	8.1	5.8%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	1	0.7%	1.0	0.7%
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	---	7	5.0%	7.1	5.0%
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	---	139	100.0%	141.2	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Sitka Tribe of Alaska, 2005.

Table 15. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Wrangell, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	10
Surveyed Households	6
Sampling Fraction	60.0%
Sample Household Members	15
Estimated Household Members	25.0
2000 U.S. Census Estimated Native Population	550

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	33.3%
Hunted	0.0%	33.3%
Harvested	0.0%	33.3%
Received	0.0%	0.0%
Gave Away	0.0%	16.7%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	33.3
Total Number Struck and Lost	0.0	8.3
Total Number Taken	0.0	41.7
Number Harvested Per Capita	0.00	0.06

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
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 HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
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
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
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%		

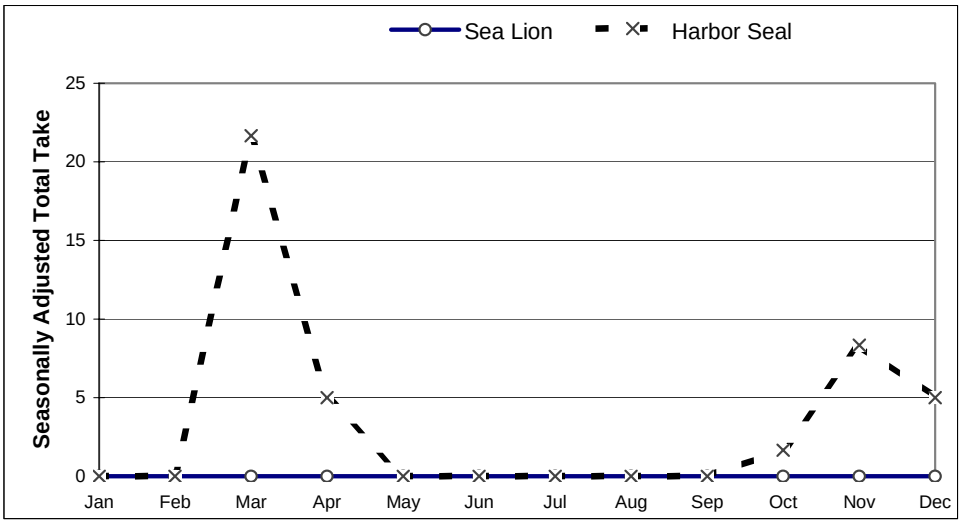
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Wrangell Cooperative Association, 2005.

Table 15. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Wrangell, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	6.0	8.0	14.0
1993	0.0	0.0	0.0	1993	19.5	9.0	28.5
1994	0.0	0.0	0.0	1994	101.0	27.0	128.0
1995	0.0	0.0	0.0	1995	89.3	22.8	112.0
1996	0.0	0.0	0.0	1996	79.3	22.2	101.5
1997	0.0	0.0	0.0	1997	68.8	29.2	98.0
1998	0.0	0.0	0.0	1998	174.0	30.0	204.0
2000	0.0	0.0	0.0	2000	28.5	12.0	40.5
2001	0.0	0.0	0.0	2001	16.0	29.0	45.0
2002	0.0	0.0	0.0	2002	20.0	9.0	29.0
2003	0.0	0.0	0.0	2003	68.0	18.7	86.7
2004	0.0	0.0	0.0	2004	33.3	8.3	41.7

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Wrangell Cooperative Association, 2005.

Table 16. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Yakutat, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	48
Surveyed Households	39
Sampling Fraction	81.3%
Sample Household Members	113
Estimated Household Members	139.3
2000 U.S. Census Estimated Native Population	375

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	94.9%
Hunted	0.0%	56.4%
Harvested	0.0%	46.2%
Received	0.0%	74.4%
Gave Away	0.0%	53.8%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	147.7
Total Number Struck and Lost	0.0	27.1
Total Number Taken	0.0	174.8
Number Harvested Per Capita	0.00	0.39

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	0	29	15	3	4	1	18	10	15	20	3	0	120
Struck & Lost	0	0	4	4	1	0	0	6	1	4	2	0	0	22
Total Take	2	0	33	19	4	4	1	24	11	19	22	3	0	142
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.5	0.0	35.7	18.5	3.7	4.9	1.2	22.2	12.3	18.5	24.6	3.7	0.0	147.7
Struck & Lost	0.0	0.0	4.9	4.9	1.2	0.0	0.0	7.4	1.2	4.9	2.5	0.0	0.0	27.1
Total Take	2.5	0.0	40.6	23.4	4.9	4.9	1.2	29.5	13.5	23.4	27.1	3.7	0.0	174.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.5	0.0	35.7	18.5	3.7	4.9	1.2	22.2	12.3	18.5	24.6	3.7		147.7
Struck & Lost	0.0	0.0	4.9	4.9	1.2	0.0	0.0	7.4	1.2	4.9	2.5	0.0		27.1
Total Take	2.5	0.0	40.6	23.4	4.9	4.9	1.2	29.5	13.5	23.4	27.1	3.7		174.8
Total Take (%)	1.4%	0.0%	23.2%	13.4%	2.8%	2.8%	0.7%	16.9%	7.7%	13.4%	15.5%	2.1%		100.0%
Cum. Take	2.5	2.5	43.1	66.5	71.4	76.3	77.5	107.1	120.6	144.0	171.1	174.8		
Cum. Take (%)	1.4%	1.4%	24.6%	38.0%	40.8%	43.7%	44.4%	61.3%	69.0%	82.4%	97.9%	100.0%		

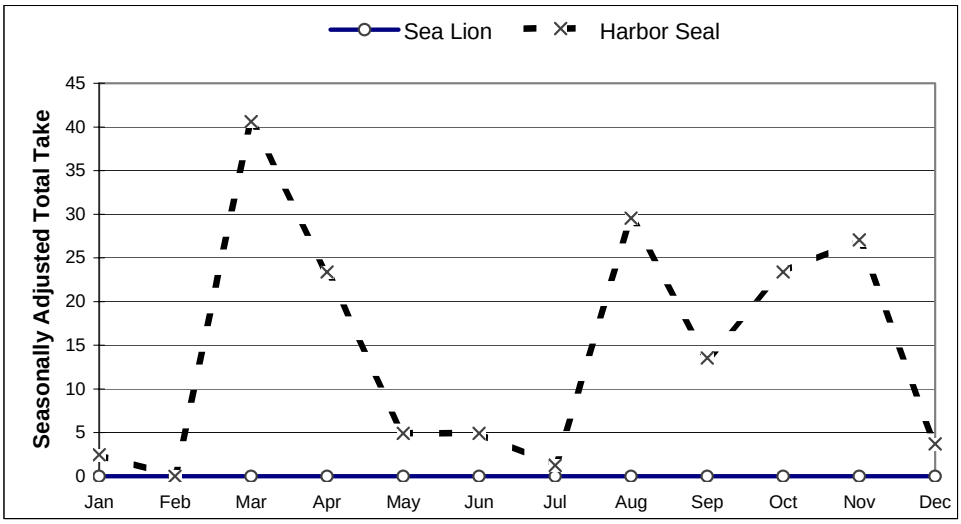
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Yakutat Tlingit Tribe, 2005.

Table 16. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Yakutat, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	54	45.0%	66.5	45.0%
Adult Female	0	---	0.0	---	22	18.3%	27.1	18.3%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	28	23.3%	34.5	23.3%
Juvenile Female	0	---	0.0	---	15	12.5%	18.5	12.5%
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	---	1	0.8%	1.2	0.8%
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	---	120	100.0%	147.7	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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	147.69	27.077	174.77

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Yakutat Tlingit Tribe, 2005.

Table 17. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Chenega Bay, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	19
Surveyed Households	18
Sampling Fraction	94.7%
Sample Household Members	54
Estimated Household Members	56.8
2000 U.S. Census Estimated Native Population	67

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	16.7%	100.0%
Hunted	0.0%	55.6%
Harvested	0.0%	38.9%
Received	16.7%	100.0%
Gave Away	0.0%	55.6%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	21.1
Total Number Struck and Lost	0.0	1.1
Total Number Taken	0.0	22.2
Number Harvested Per Capita	0.00	0.32

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	2	0	3	1	0	6	3	2	2	0	1	20
Struck & Lost	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Total Take	0	0	2	0	3	1	1	6	3	2	2	0	1	21
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	2.1	0.0	3.2	1.1	0.0	6.3	3.2	2.1	2.1	0.0	1.1	21.1
Struck & Lost	0.0	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	2.1	3.2	3.2	1.1	1.1	6.3	3.2	2.1	2.1	0.0	1.1	22.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	2.2	0.0	3.3	1.1	0.0	6.7	3.3	2.2	2.2	0.0		21.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0		1.1
Total Take	0.0	0.0	2.2	0.0	3.3	1.1	1.1	6.7	3.3	2.2	2.2	0.0		22.2
Total Take (%)	0.0%	0.0%	10.0%	0.0%	15.0%	5.0%	4.8%	30.1%	15.0%	10.0%	10.0%	0.0%		100.0%
Cum. Take	0.0	0.0	2.2	2.2	5.6	6.7	7.7	14.4	17.7	19.9	22.2	22.2		
Cum. Take (%)	0.0%	0.0%	10.0%	10.0%	25.1%	30.1%	34.8%	64.9%	79.9%	90.0%	100.0%	100.0%		

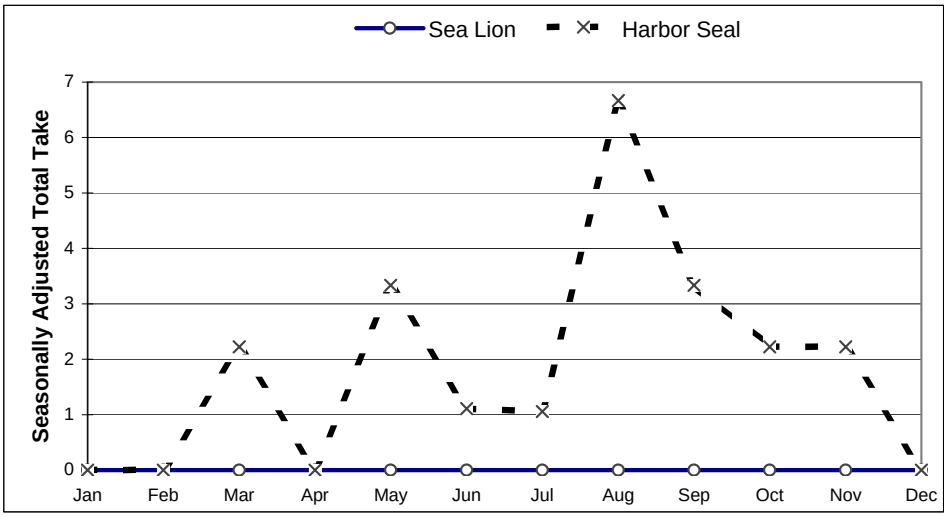
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chenega Bay IRA Council, 2005.

Table 17. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chenega Bay, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	5	25.0%	5.3	25.0%
Adult Female	0	---	0.0	---	1	5.0%	1.1	5.0%
Adult Unknown Sex	0	---	0.0	---	2	10.0%	2.1	10.0%
Juvenile Male	0	---	0.0	---	2	10.0%	2.1	10.0%
Juvenile Female	0	---	0.0	---	3	15.0%	3.2	15.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	4	20.0%	4.2	20.0%
Pup Female	0	---	0.0	---	1	5.0%	1.1	5.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	1	5.0%	1.1	5.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	1	5.0%	1.1	5.0%
Total	0	---	0.0	---	20	100.0%	21.1	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chenega Bay IRA Council, 2005.

Table 18. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Cordova, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	15
Surveyed Households	11
Sampling Fraction	73.3%
Sample Household Members	36
Estimated Household Members	49.1
2000 U.S. Census Estimated Native Population	368

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	9.1%	100.0%
Hunted	9.1%	100.0%
Harvested	9.1%	100.0%
Received	9.1%	54.5%
Gave Away	9.1%	100.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	2.7	77.7
Total Number Struck and Lost	0.0	2.7
Total Number Taken	2.7	80.5
Number Harvested Per Capita	0.01	0.21

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	1	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	0	0	0	0	0	0	1	0	0	1	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	1.4	0.0	0.0	0.0	2.7
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	0.0	0.0	0.0	1.4	0.0	0.0	1.4	0.0	0.0	0.0	2.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	1.4	0.0	0.0		2.7
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	0.0	0.0	1.4	0.0	0.0	1.4	0.0	0.0		2.7
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	50.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	2.7	2.7	2.7		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	50.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	3	0	0	0	5	10	2	0	21	9	2	2	57
Struck & Lost	0	0	0	0	0	0	0	0	0	1	0	0	1	2
Total Take	3	3	0	0	0	5	10	2	0	22	9	2	3	59
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.1	4.1	0.0	0.0	0.0	6.8	13.6	2.7	0.0	28.6	12.3	2.7	2.7	77.7
Struck & Lost	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	2.7
Total Take	4.1	4.1	0.0	0.0	0.0	6.8	13.6	2.7	0.0	30.0	12.3	2.7	4.1	80.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.2	4.2	0.0	0.0	0.0	7.1	14.1	2.8	0.0	29.7	12.7	2.8		77.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0		2.7
Total Take	4.2	4.2	0.0	0.0	0.0	7.1	14.1	2.8	0.0	32.4	12.7	2.8		80.5
Total Take (%)	5.3%	5.3%	0.0%	0.0%	0.0%	8.8%	17.6%	3.5%	0.0%	40.3%	15.8%	3.5%		100.0%
Cum. Take	4.2	8.5	8.5	8.5	8.5	15.5	29.7	32.5	32.5	64.9	77.6	80.5		
Cum. Take (%)	5.3%	10.5%	10.5%	10.5%	10.5%	19.3%	36.9%	40.4%	40.4%	80.7%	96.5%	100.0%		

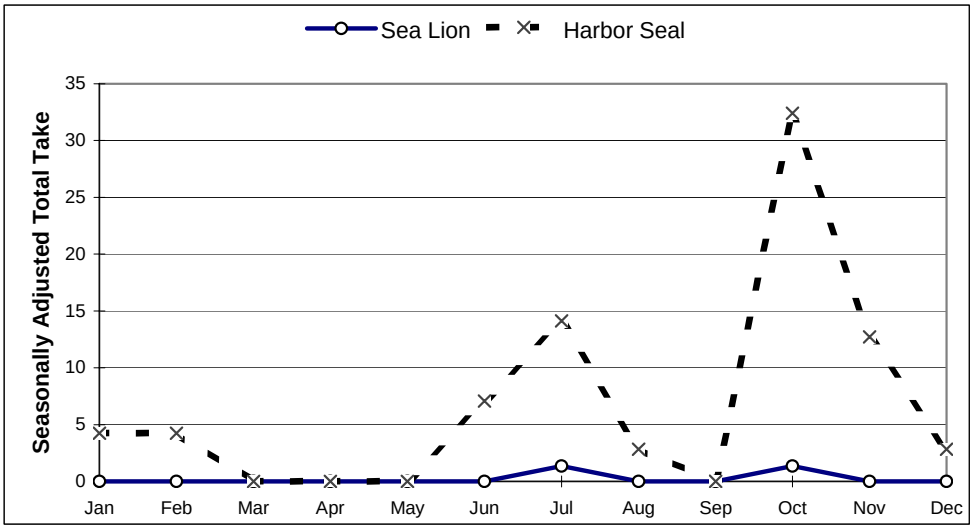
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Traditional Village of Eyak. 2003. (Numbers based on 2003 Survey Estimates)

Table 18. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Cordova, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	12	21.1%	16.4	21.1%
Adult Female	0	0.0%	0.0	0.0%	2	3.5%	2.7	3.5%
Adult Unknown Sex	0	0.0%	0.0	0.0%	8	14.0%	10.9	14.0%
Juvenile Male	0	0.0%	0.0	0.0%	6	10.5%	8.2	10.5%
Juvenile Female	0	0.0%	0.0	0.0%	3	5.3%	4.1	5.3%
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%	3	5.3%	4.1	5.3%
Pup Female	0	0.0%	0.0	0.0%	1	1.8%	1.4	1.8%
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	2	100.0%	2.7	100.0%	22	38.6%	30.0	38.6%
Total	2	100.0%	2.7	100.0%	57	100.0%	77.7	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Traditional Village of Eyak. 2003. (Numbers based on 2003 Survey Estimates)

Table 19. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Nanwalek, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	49
Surveyed Households	47
Sampling Fraction	95.9%
Sample Household Members	182
Estimated Household Members	189.7
2000 U.S. Census Estimated Native Population	165

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	31.9%	100.0%
Hunted	6.4%	21.3%
Harvested	4.3%	14.9%
Received	29.8%	97.9%
Gave Away	17.0%	34.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	2.1	30.2
Total Number Struck and Lost	0.0	12.5
Total Number Taken	2.1	42.7
Number Harvested Per Capita	0.01	0.18

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	1	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	0	0	0	1	0	1	0	2
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	1.0	0.0	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	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	1.0	0.0	1.0	0.0	2.1
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	1.0	0.0	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	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	1.0	0.0	1.0		2.1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	50.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.1		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	2	3	3	0	6	1	8	0	0	6	0	29
Struck & Lost	0	0	0	0	0	0	4	0	5	0	0	0	3	12
Total Take	0	0	2	3	3	0	10	1	13	0	0	6	3	41
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	2.1	3.1	3.1	0.0	6.3	1.0	8.3	0.0	0.0	6.3	0.0	30.2
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	5.2	0.0	0.0	0.0	3.1	12.5
Total Take	0.0	0.0	2.1	3.1	3.1	0.0	10.4	1.0	13.6	0.0	0.0	6.3	3.1	42.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	2.1	3.1	3.1	0.0	6.3	1.0	8.3	0.0	0.0	6.3		30.2
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	7.0	0.0	0.0	0.0		12.5
Total Take	0.0	0.0	2.1	3.1	3.1	0.0	11.8	1.0	15.3	0.0	0.0	6.3		42.7
Total Take (%)	0.0%	0.0%	4.9%	7.3%	7.3%	0.0%	27.6%	2.4%	35.8%	0.0%	0.0%	14.6%		100.0%
Cum. Take	0.0	0.0	2.1	5.2	8.3	8.3	20.2	21.2	36.5	36.5	36.5	42.7		
Cum. Take (%)	0.0%	0.0%	4.9%	12.2%	19.5%	19.5%	47.2%	49.6%	85.4%	85.4%	85.4%	100.0%		

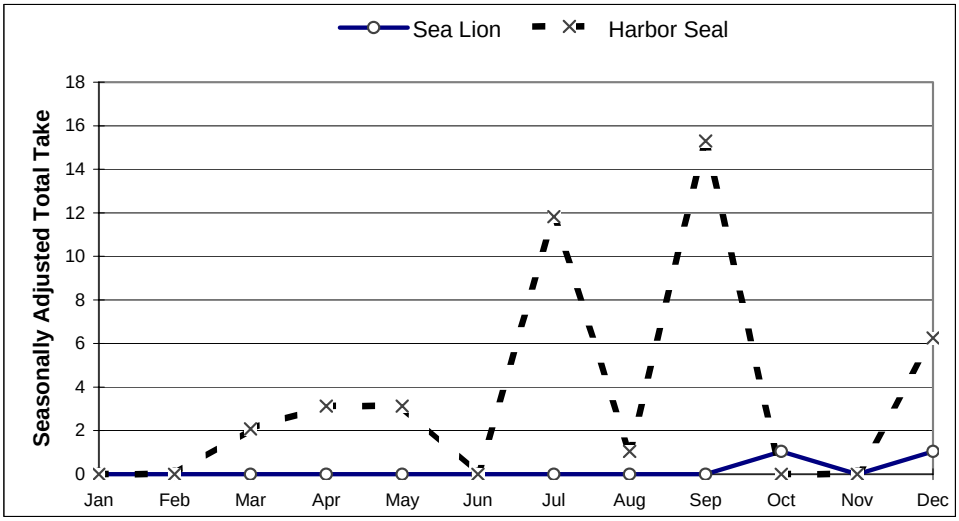
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nanwalek Traditional Council and English Bay Corporation, 2005.

Table 19. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Nanwalek, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	2	6.9%	2.1	6.9%
Adult Female	0	0.0%	0.0	0.0%	1	3.4%	1.0	3.4%
Adult Unknown Sex	0	0.0%	0.0	0.0%	5	17.2%	5.2	17.2%
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	2	100.0%	2.1	100.0%	21	72.4%	21.9	72.4%
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	2	100.0%	2.1	100.0%	29	100.0%	30.2	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nanwalek Traditional Council and English Bay Corporation, 2005.

Table 20. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Port Graham, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	50
Surveyed Households	36
Sampling Fraction	72.0%
Sample Household Members	78
Estimated Household Members	108.3
2000 U.S. Census Estimated Native Population	151

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	27.8%	55.6%
Hunted	8.3%	13.9%
Harvested	5.6%	11.1%
Received	25.0%	52.8%
Gave Away	8.3%	22.2%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	6.9	44.4
Total Number Struck and Lost	5.6	2.8
Total Number Taken	12.5	47.2
Number Harvested Per Capita	0.05	0.29

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	0	3	0	0	0	1	0	0	0	5
Struck & Lost	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Total Take	0	0	0	1	0	7	0	0	0	1	0	0	0	9
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.4	0.0	4.2	0.0	0.0	0.0	1.4	0.0	0.0	0.0	6.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
Total Take	0.0	0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0	1.4	0.0	0.0	0.0	12.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.4	0.0	4.2	0.0	0.0	0.0	1.4	0.0	0.0		6.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0		5.6
Total Take	0.0	0.0	0.0	1.4	0.0	9.7	0.0	0.0	0.0	1.4	0.0	0.0		12.5
Total Take (%)	0.0%	0.0%	0.0%	11.1%	0.0%	77.8%	0.0%	0.0%	0.0%	11.1%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	1.4	1.4	11.1	11.1	11.1	11.1	12.5	12.5	12.5		
Cum. Take (%)	0.0%	0.0%	0.0%	11.1%	11.1%	88.9%	88.9%	88.9%	88.9%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	1	3	12	7	7	1	1	0	32
Struck & Lost	0	0	0	0	0	0	0	1	0	1	0	0	0	2
Total Take	0	0	0	0	0	1	3	13	7	8	1	1	0	34
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.4	4.2	16.7	9.7	9.7	1.4	1.4	0.0	44.4
Struck & Lost	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	2.8
Total Take	0.0	0.0	0.0	0.0	0.0	1.4	4.2	18.1	9.7	11.1	1.4	1.4	0.0	47.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.4	4.2	16.7	9.7	9.7	1.4	1.4		44.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4	0.0	0.0		2.8
Total Take	0.0	0.0	0.0	0.0	0.0	1.4	4.2	18.1	9.7	11.1	1.4	1.4		47.2
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%	8.8%	38.2%	20.6%	23.5%	2.9%	2.9%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	1.4	5.6	23.6	33.3	44.4	45.8	47.2		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%	11.8%	50.0%	70.6%	94.1%	97.1%	100.0%		

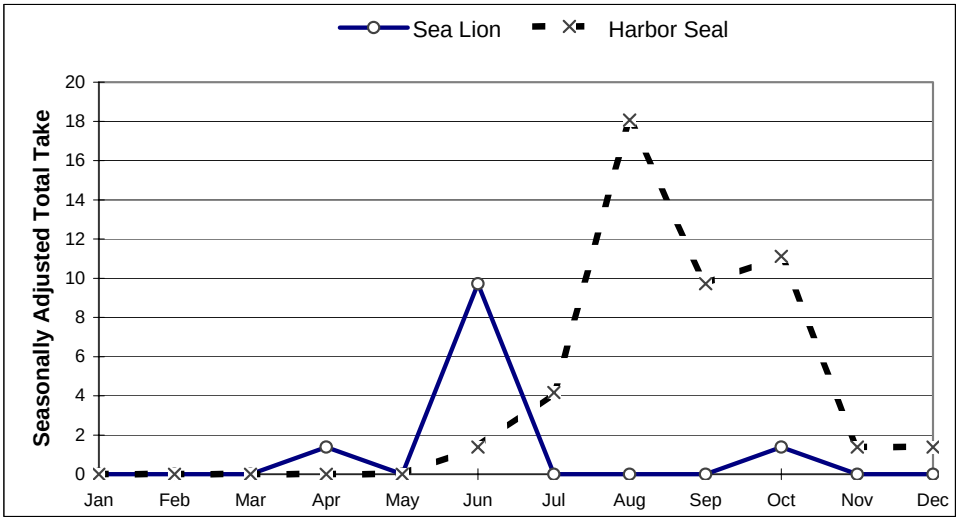
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Graham Village Council and Port Graham Corporation. 2005.

Table 20. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Graham, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	2	40.0%	2.8	40.0%	21	65.6%	29.2	65.6%
Adult Female	1	20.0%	1.4	20.0%	1	3.1%	1.4	3.1%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	1	20.0%	1.4	20.0%	4	12.5%	5.6	12.5%
Juvenile Female	1	20.0%	1.4	20.0%	5	15.6%	6.9	15.6%
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%	1	3.1%	1.4	3.1%
Total	5	100.0%	6.9	100.0%	32	100.0%	44.4	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Graham Village Council and Port Graham Corporation. 2005.

Table 21. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Seldovia, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	4
Surveyed Households	4
Sampling Fraction	100.0%
Sample Household Members	6
Estimated Household Members	6.0
2000 U.S. Census Estimated Native Population	66

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	75.0%
Hunted	0.0%	25.0%
Harvested	0.0%	25.0%
Received	0.0%	75.0%
Gave Away	0.0%	75.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	1.0
Total Number Struck and Lost	0.0	1.0
Total Number Taken	0.0	2.0
Number Harvested Per Capita	0.00	0.02

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Struck & Lost	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Total Take	0	0	0	0	0	0	0	0	0	2	0	0	0	2
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	1.0	0.0	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	1.0	0.0	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	2.0	0.0	0.0	0.0	2.0
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	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	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	2.0	0.0	0.0		2.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%		

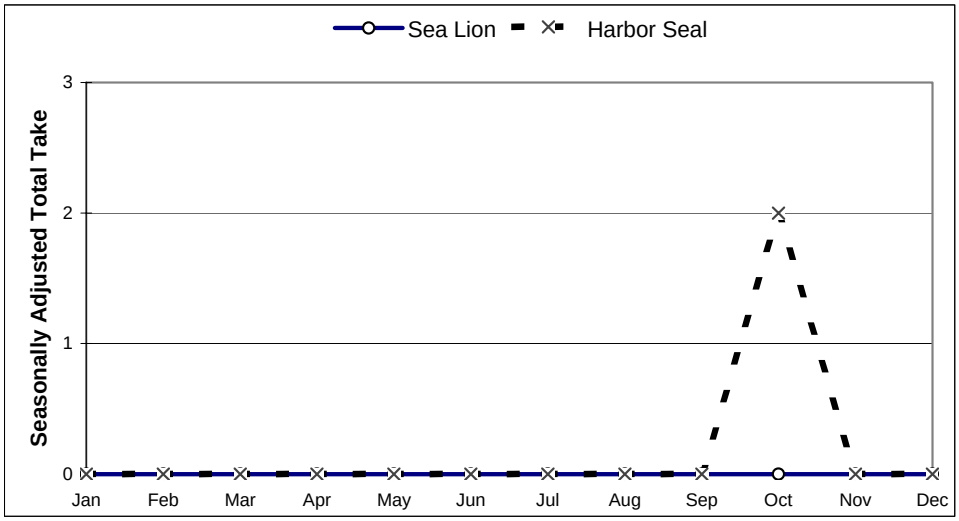
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Seldovia Native Association, 2005.

Table 21. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Seldovia, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (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	---	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	100.0%	1.0	100.0%
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%	1.0	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Seldovia Native Association, 2005.

Table 22. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Seward, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Native Households	2
Surveyed Households	2
Sampling Fraction	100.0%
Sample Household Members	10
Estimated Household Members	10.0
2000 U.S. Census Estimated Native Population	592

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	0.0%
Hunted	0.0%	50.0%
Harvested	0.0%	0.0%
Received	0.0%	0.0%
Gave Away	0.0%	0.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	0.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	0.0
Number Harvested Per Capita	0.00	0.00

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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 (%)	---	---	---	---	---	---	---	---	---	---	---	---		

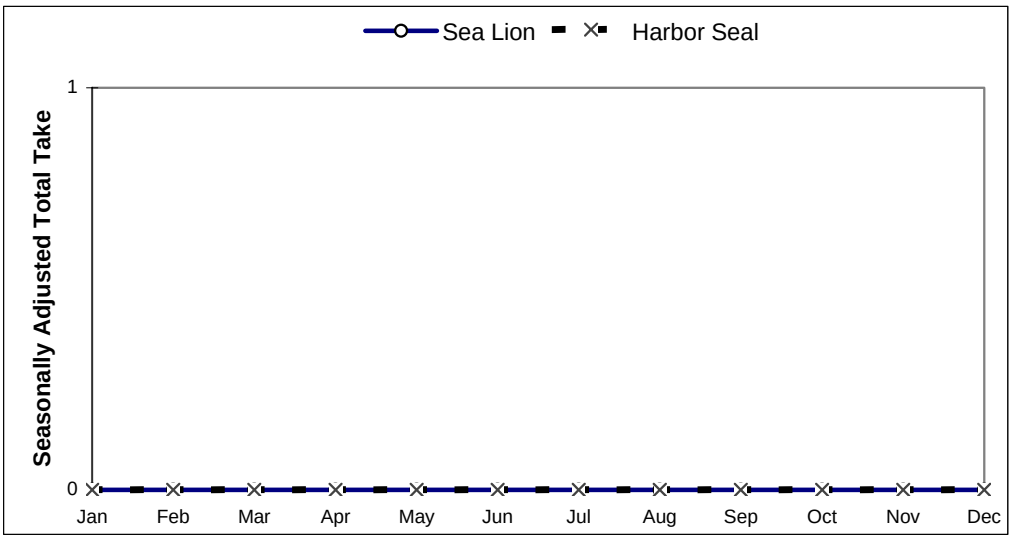
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qutekcak Native Tribe, 2005.

Table 22. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Seward, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (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				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qutekcak Native Tribe, 2005.

Table 23. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Tatitlek, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Native Households	19
Surveyed Households	19
Sampling Fraction	100.0%
Sample Household Members	62
Estimated Household Members	62.0
2000 U.S. Census Estimated Native Population	91

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	78.9%	100.0%
Hunted	42.1%	57.9%
Harvested	42.1%	52.6%
Received	63.2%	94.7%
Gave Away	68.4%	94.7%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	26.3	90.2
Total Number Struck and Lost	10.3	23.1
Total Number Taken	36.6	113.3
Number Harvested Per Capita	0.29	0.99

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	5	10	1	1	1	1	0	0	2	1	3	26
Struck & Lost	0	0	4	5	0	0	0	0	0	0	0	0	1	10
Total Take	0	1	9	15	1	1	1	1	0	0	2	1	5	37
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.0	5.0	10.0	1.0	1.0	1.0	1.0	0.0	0.0	2.0	1.0	3.3	26.3
Struck & Lost	0.0	0.0	4.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	10.3
Total Take	0.0	1.0	9.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	2.0	1.0	4.6	36.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.1	5.7	11.4	1.1	1.1	1.1	1.1	0.0	0.0	2.3	1.1		26.3
Struck & Lost	0.0	0.0	4.6	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		10.3
Total Take	0.0	1.1	10.3	17.1	1.1	1.1	1.1	1.1	0.0	0.0	2.3	1.1		36.6
Total Take (%)	0.0%	3.1%	28.1%	46.9%	3.1%	3.1%	3.1%	3.1%	0.0%	0.0%	6.2%	3.1%		100.0%
Cum. Take	0.0	1.1	11.4	28.6	29.7	30.9	32.0	33.2	33.2	33.2	35.4	36.6		
Cum. Take (%)	0.0%	3.1%	31.3%	78.1%	81.3%	84.4%	87.5%	90.6%	90.6%	90.6%	96.9%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	3	7	5	13	12	11	9	5	6	4	4	8	90
Struck & Lost	0	0	0	2	2	6	9	0	0	2	0	0	2	23
Total Take	3	3	7	7	15	18	20	9	5	8	4	4	10	113
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.0	3.0	7.0	5.0	13.0	12.0	11.0	9.0	5.0	6.0	4.0	4.0	8.2	90.2
Struck & Lost	0.0	0.0	0.0	2.0	2.0	6.0	9.0	0.0	0.0	2.0	0.0	0.0	2.1	23.1
Total Take	3.0	3.0	7.0	15.0	15.0	18.0	20.0	9.0	5.0	8.0	4.0	4.0	10.3	113.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.3	3.3	7.7	5.5	14.3	13.2	12.1	9.9	5.5	6.6	4.4	4.4		90.2
Struck & Lost	0.0	0.0	0.0	2.2	2.2	6.6	9.9	0.0	0.0	2.2	0.0	0.0		23.1
Total Take	3.3	3.3	7.7	7.7	16.5	19.8	22.0	9.9	5.5	8.8	4.4	4.4		113.3
Total Take (%)	2.9%	2.9%	6.8%	6.8%	14.6%	17.5%	19.4%	8.7%	4.9%	7.8%	3.9%	3.9%		100.0%
Cum. Take	3.3	6.6	14.3	22.0	38.5	58.3	80.3	90.2	95.7	104.5	108.9	113.3		
Cum. Take (%)	2.9%	5.8%	12.6%	19.4%	34.0%	51.5%	70.9%	79.6%	84.5%	92.2%	96.1%	100.0%		

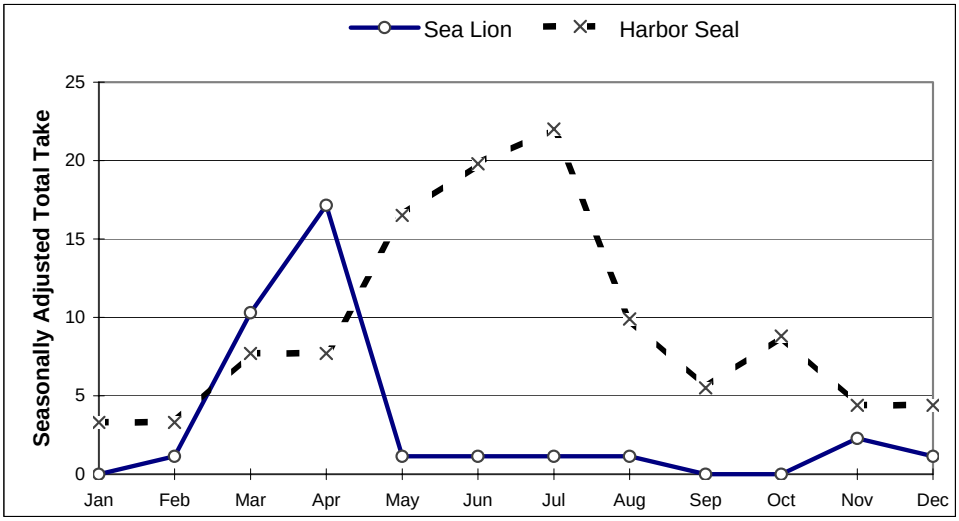
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tatitlek IRA Council, 2005.

Table 23. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Tatitlek, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	7	26.6%	7.0	26.6%	9	10.0%	9.0	10.0%
Adult Female	1	3.8%	1.0	3.8%	9	10.0%	9.0	10.0%
Adult Unknown Sex	2	7.6%	2.0	7.6%	18	20.0%	18.0	20.0%
Juvenile Male	3	11.4%	3.0	11.4%	2	2.2%	2.0	2.2%
Juvenile Female	3	11.4%	3.0	11.4%	3	3.3%	3.0	3.3%
Juvenile Unknown Sex	5	19.0%	5.0	19.0%	19	21.1%	19.0	21.1%
Pup Male	0	0.0%	0.0	0.0%	2	2.2%	2.0	2.2%
Pup Female	0	0.0%	0.0	0.0%	2	2.2%	2.0	2.2%
Pup Unknown Sex	0	0.0%	0.0	0.0%	8	8.9%	8.0	8.9%
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	20.1%	5.3	20.1%	18	20.2%	18.2	20.2%
Total	26	100.0%	26.3	100.0%	90	100.0%	90.2	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tatitlek IRA Council, 2005.

Table 24. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Valdez, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	4
Surveyed Households	2
Sampling Fraction	50.0%
Sample Household Members	6
Estimated Household Members	12.0
2000 U.S. Census Estimated Native Population	410

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	100.0%
Hunted	0.0%	100.0%
Harvested	0.0%	100.0%
Received	0.0%	0.0%
Gave Away	0.0%	100.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	58.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	58.0
Number Harvested Per Capita	0.00	0.14

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	0	6	0	0	0	0	0	5	10	5	0	0	29
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	3	0	6	0	0	0	0	0	5	10	5	0	0	29
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	10.0	20.0	10.0	0.0	0.0	58.0
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	6.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	10.0	20.0	10.0	0.0	0.0	58.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	10.0	20.0	10.0	0.0		58.0
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	6.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	10.0	20.0	10.0	0.0		58.0
Total Take (%)	10.3%	0.0%	20.7%	0.0%	0.0%	0.0%	0.0%	0.0%	17.2%	34.5%	17.2%	0.0%		100.0%
Cum. Take	6.0	6.0	18.0	18.0	18.0	18.0	18.0	18.0	28.0	48.0	58.0	58.0		
Cum. Take (%)	10.3%	10.3%	31.0%	31.0%	31.0%	31.0%	31.0%	31.0%	48.3%	82.8%	100.0%	100.0%		

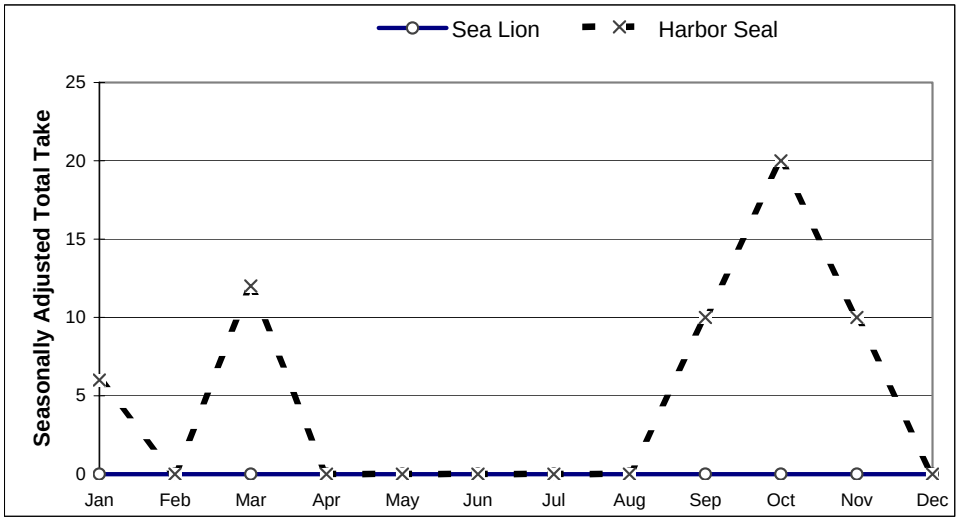
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Valdez Native Association, 2005.

Table 24. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Valdez, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	15	51.7%	30.0	51.7%
Adult Female	0	---	0.0	---	12	41.4%	24.0	41.4%
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	---	2	6.9%	4.0	6.9%
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	---	29	100.0%	58.0	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Valdez Native Association, 2005.

Table 25. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Anchorage, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	29
Surveyed Households	13
Sampling Fraction	44.8%
Sample Household Members	47
Estimated Household Members	105.5
2000 U.S. Census Estimated Native Population	26995

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	30.8%
Hunted	0.0%	30.8%
Harvested	0.0%	30.8%
Received	0.0%	7.7%
Gave Away	0.0%	30.8%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	46.8
Total Number Struck and Lost	0.0	13.4
Total Number Taken	0.0	60.2
Number Harvested Per Capita	0.00	0.00

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	4	9	1	0	0	0	0	0	0	7	21
Struck & Lost	0	0	0	3	0	0	0	3	0	0	0	0	0	6
Total Take	0	0	0	7	9	1	0	3	0	0	0	0	7	27
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	8.9	20.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	15.6	46.8
Struck & Lost	0.0	0.0	0.0	6.7	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	13.4
Total Take	0.0	0.0	0.0	20.1	20.1	2.2	0.0	6.7	0.0	0.0	0.0	0.0	15.6	60.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	13.4	30.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0		46.8
Struck & Lost	0.0	0.0	0.0	6.7	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0		13.4
Total Take	0.0	0.0	0.0	20.1	30.1	3.3	0.0	6.7	0.0	0.0	0.0	0.0		60.2
Total Take (%)	0.0%	0.0%	0.0%	33.3%	50.0%	5.6%	0.0%	11.1%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	20.1	50.2	53.5	53.5	60.2	60.2	60.2	60.2	60.2		
Cum. Take (%)	0.0%	0.0%	0.0%	33.3%	83.3%	88.9%	88.9%	100.0%	100.0%	100.0%	100.0%	100.0%		

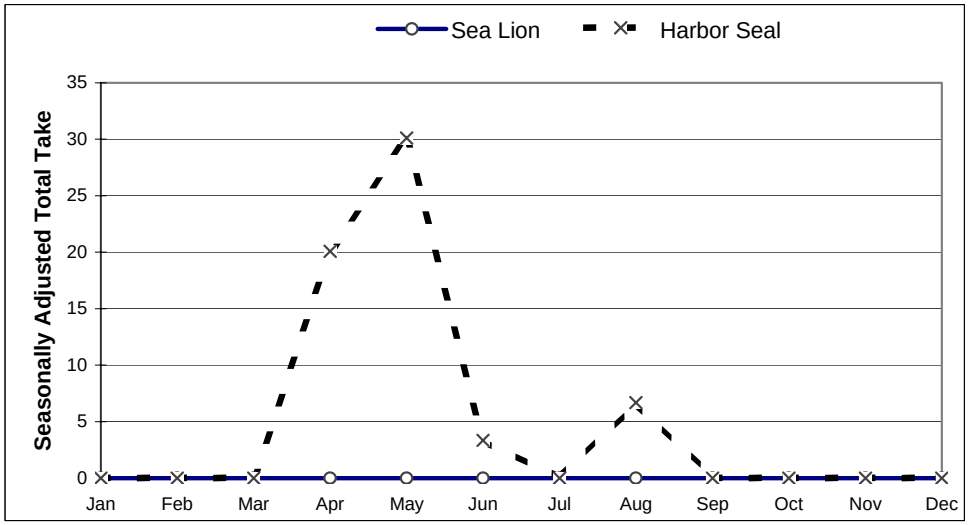
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Cook Inlet Tribal Council and Alaska Federation of Natives, 2005.

Table 25. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Anchorage, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	1	4.8%	2.2	4.8%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	7	33.3%	15.6	33.3%
Juvenile Male	0	---	0.0	---	1	4.8%	2.2	4.8%
Juvenile Female	0	---	0.0	---	1	4.8%	2.2	4.8%
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	---	11	52.4%	24.5	52.4%
Total	0	---	0.0	---	21	100.0%	46.8	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION

Year	Harvest	Struck/ Lost	Total Take
1992	5.7	3.8	9.5
1993	7.8	3.3	11.1
1994	1.4	0.0	1.4
1995	0.0	0.0	0.0
1996	1.0	0.0	1.0
1997	0.0	0.0	0.0
1998	0.0	0.0	0.0
2000	0.0	0.0	0.0
2001	1.3	0.0	1.3
2002	0.0	0.0	0.0
2003	0.0	0.0	0.0
2004	0.0	0.0	0.0

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	17.1	0.0	17.1
1993	24.4	5.6	30.0
1994	4.2	0.0	4.2
1995	3.7	0.0	3.7
1996	28.9	6.2	35.1
1997	23.6	1.2	24.8
1998	43.8	7.5	51.3
2000	43.8	7.5	51.3
2001	45.3	2.7	48.0
2002	39.8	8.0	47.7
2003	55.0	15.0	70.0
2004	46.8	13.4	60.2

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Cook Inlet Tribal Council and Alaska Federation of Natives, 2005.

Table 26. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Homer, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	13
Surveyed Households	7
Sampling Fraction	53.8%
Sample Household Members	21
Estimated Household Members	39.0
2000 U.S. Census Estimated Native Population	371

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	28.6%
Hunted	0.0%	28.6%
Harvested	0.0%	28.6%
Received	0.0%	0.0%
Gave Away	0.0%	28.6%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	3.7
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	3.7
Number Harvested Per Capita	0.00	0.01

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
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 HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	3.7
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	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	3.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0		3.7
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	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0		3.7
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	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.7	3.7	3.7		
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%		

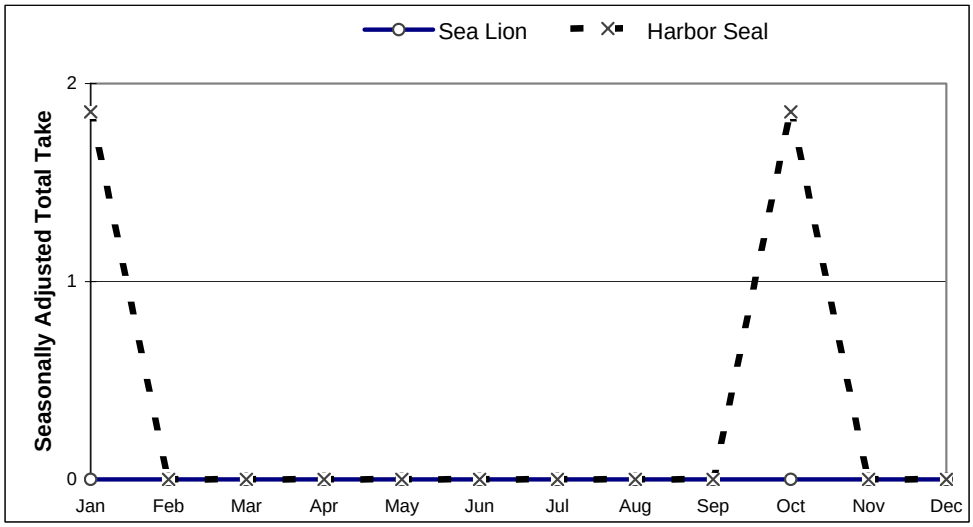
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, 2005.

Table 26. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Homer, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	1	50.0%	1.9	50.0%
Adult Female	0	---	0.0	---	1	50.0%	1.9	50.0%
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	---	2	100.0%	3.7	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, 2005.

Table 26B. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kenai, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	3
Surveyed Households	1
Sampling Fraction	33.3%
Sample Household Members	2
Estimated Household Members	6.0
2000 U.S. Census Estimated Native Population	2120

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	100.0%
Hunted	0.0%	100.0%
Harvested	0.0%	100.0%
Received	0.0%	0.0%
Gave Away	0.0%	100.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	6.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	6.0
Number Harvested Per Capita	0.00	0.00

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	2	0	0	0	0	0	0	0	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
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	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		6.0
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	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		6.0
Total Take (%)	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0		
Cum. Take (%)	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

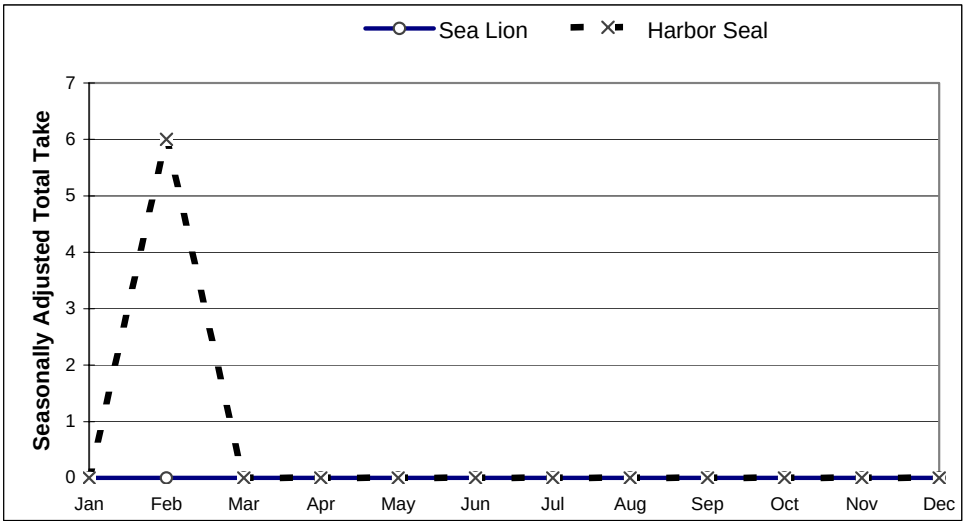
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, 2005.

Table 26b. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kenai, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Female	0	---	0.0	---	2	100.0%	6.0	100.0%
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	---	2	100.0%	6.0	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, 2005.

Table 26c. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Tyonek, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	2
Surveyed Households	2
Sampling Fraction	100.0%
Sample Household Members	6
Estimated Household Members	6.0
2000 U.S. Census Estimated Native Population	184

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	0.0%
Hunted	0.0%	0.0%
Harvested	0.0%	0.0%
Received	0.0%	0.0%
Gave Away	0.0%	0.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	0.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	0.0
Number Harvested Per Capita	0.00	0.00

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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 (%)	---	---	---	---	---	---	---	---	---	---	---	---		

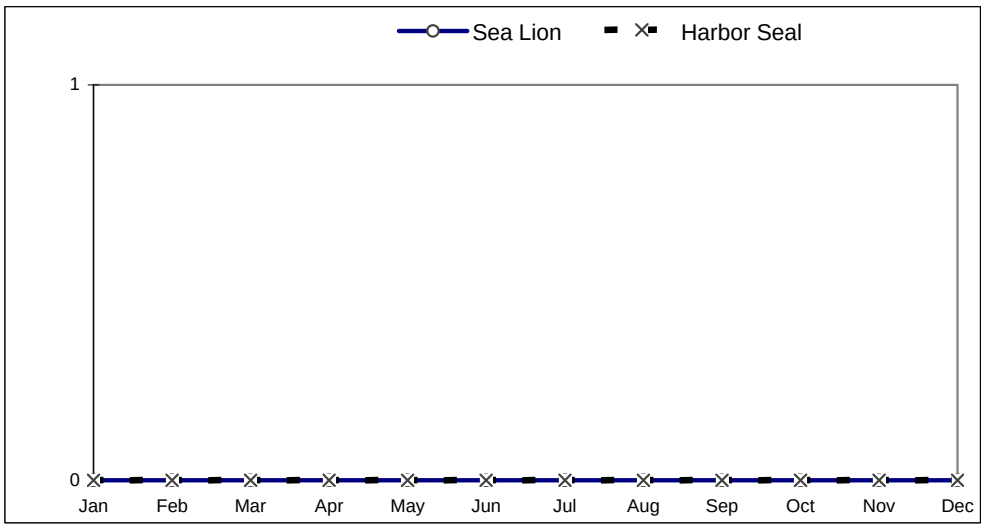
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Native Village of Tyonek, 2005.

Table 26b. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Tyonek, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (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

Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0
1993	---	---	---
1994	---	---	---
1995	---	---	---
1996	0.0	0.0	0.0
1997	---	---	---
1998	0.0	0.0	0.0
2000	0.0	0.0	0.0
2001	0.0	0.0	0.0
2002	0.0	0.0	0.0
2003	0.0	0.0	0.0
2004	0.0	0.0	0.0

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	1.1	0.0	1.1
1993	---	---	---
1994	---	---	---
1995	---	---	---
1996	2.0	0.0	2.0
1997	---	---	---
1998	0.0	0.0	0.0
2000	0.0	0.0	0.0
2001	0.0	0.0	0.0
2002	3.0	0.0	3.0
2003	5.0	0.0	5.0
2004	0.0	0.0	0.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Native Village of Tyonek, 2005.

Table 29. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Akhiok, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	14
Surveyed Households	10
Sampling Fraction	71.4%
Sample Household Members	55
Estimated Household Members	77.0
2000 U.S. Census Estimated Native Population	75

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	20.0%	40.0%
Hunted	20.0%	30.0%
Harvested	10.0%	20.0%
Received	10.0%	20.0%
Gave Away	10.0%	30.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	1.4	4.2
Total Number Struck and Lost	0.0	1.4
Total Number Taken	1.4	5.6
Number Harvested Per Capita	0.02	0.06

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
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 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	1.4	0.0	1.4
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	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
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	1.4		1.4
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4		1.4
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	1.4		
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%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	1	2	0	0	0	3
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	1	2	1	0	0	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	1.4	2.8	0.0	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	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	1.4	2.8	1.4	0.0	0.0	5.6
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	1.4	2.8	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	1.4	0.0		1.4
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	1.4	0.0		5.6
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	50.0%	25.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	5.6	5.6		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	75.0%	100.0%	100.0%		

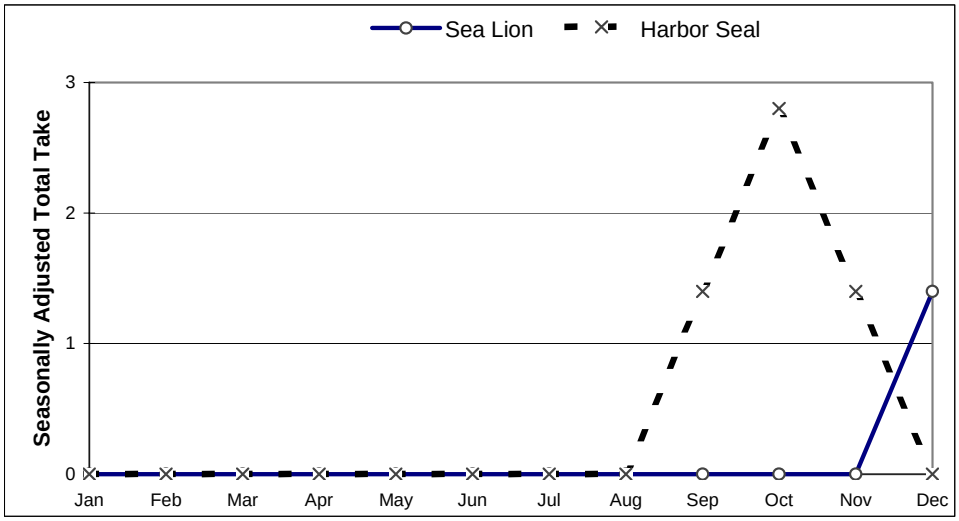
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Akhiok and Akhiok Tribal Council, 2005.

Table 29. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Akhiok, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	1	100.0%	1.4	100.0%	3	100.0%	4.2	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%	1.4	100.0%	3	100.0%	4.2	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Akhiok and Akhiok Tribal Council, 2005.

Table 30. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Karluk, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	14
Surveyed Households	9
Sampling Fraction	64.3%
Sample Household Members	25
Estimated Household Members	38.3
2000 U.S. Census Estimated Native Population	26

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	77.8%
Hunted	0.0%	33.3%
Harvested	0.0%	22.2%
Received	0.0%	55.6%
Gave Away	0.0%	33.3%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	3.1
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	3.1
Number Harvested Per Capita	0.00	0.12

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
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 HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	3.1
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	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	3.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0		3.1
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	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0		3.1
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	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1	3.1		
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%		

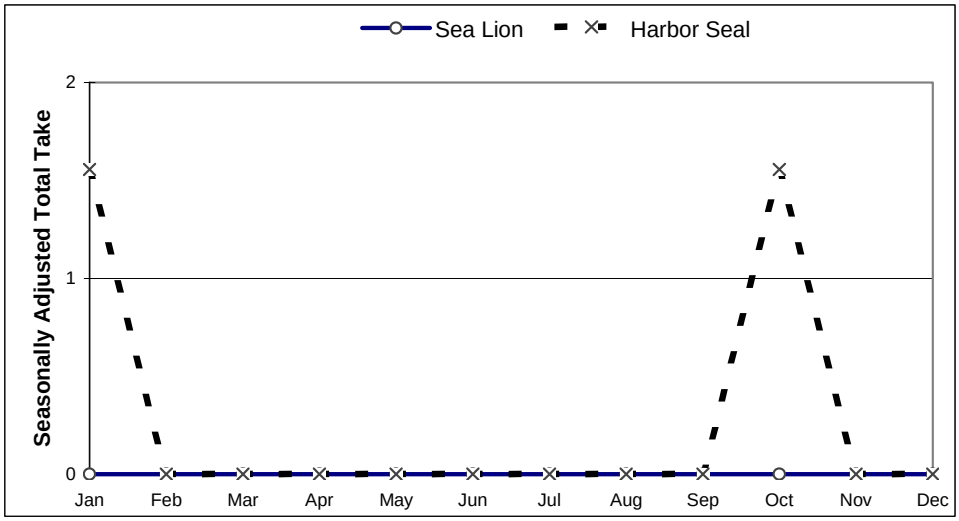
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Karluk IRA Council. 2005.

Table 30. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Karluk, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	1	50.0%	1.6	50.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	1	50.0%	1.6	50.0%
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%	3.1	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Karluk IRA Council. 2005.

Table 31. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kodiak City, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	15
Surveyed Households	10
Sampling Fraction	66.7%
Sample Household Members	32
Estimated Household Members	48.0
2000 U.S. Census Estimated Native Population	829

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	80.0%
Hunted	0.0%	60.0%
Harvested	0.0%	60.0%
Received	0.0%	30.0%
Gave Away	0.0%	50.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	21.0
Total Number Struck and Lost	0.0	4.5
Total Number Taken	0.0	25.5
Number Harvested Per Capita	0.00	0.03

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	3	0	1	2	5	2	0	0	0	14
Struck & Lost	0	0	0	1	0	0	1	0	0	0	0	1	0	3
Total Take	0	0	0	2	3	0	2	2	5	2	0	1	0	17
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.5	4.5	0.0	1.5	3.0	7.5	3.0	0.0	0.0	0.0	21.0
Struck & Lost	0.0	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	1.5	0.0	4.5
Total Take	0.0	0.0	0.0	3.0	4.5	0.0	3.0	3.0	7.5	3.0	0.0	1.5	0.0	25.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.5	4.5	0.0	1.5	3.0	7.5	3.0	0.0	0.0		21.0
Struck & Lost	0.0	0.0	0.0	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	1.5		4.5
Total Take	0.0	0.0	0.0	3.0	4.5	0.0	3.0	3.0	7.5	3.0	0.0	1.5		25.5
Total Take (%)	0.0%	0.0%	0.0%	11.8%	17.6%	0.0%	11.8%	11.8%	29.4%	11.8%	0.0%	5.9%		100.0%
Cum. Take	0.0	0.0	0.0	3.0	7.5	7.5	10.5	13.5	21.0	24.0	24.0	25.5		
Cum. Take (%)	0.0%	0.0%	0.0%	11.8%	29.4%	29.4%	41.2%	52.9%	82.4%	94.1%	94.1%	100.0%		

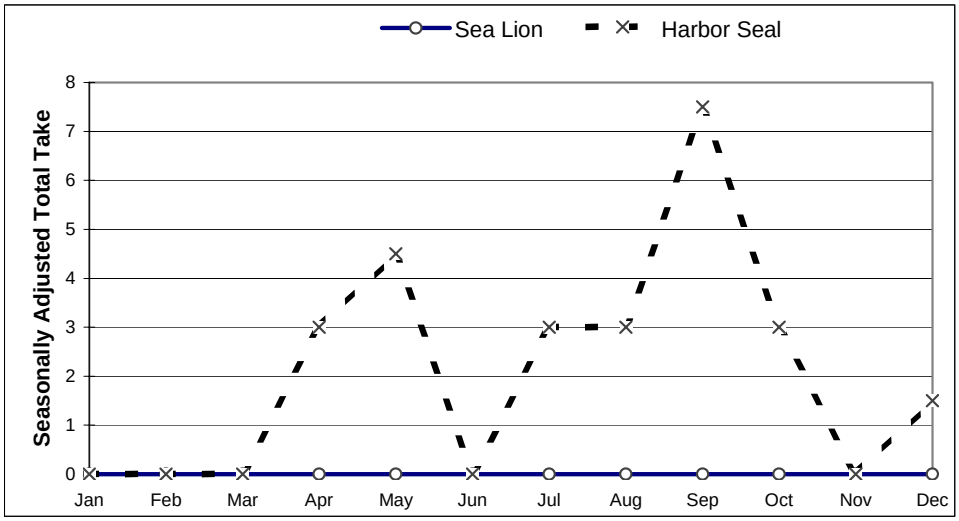
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kodiak Tribal Council and Kodiak Area Native Association 2005.

Table 31. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kodiak City, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	8	57.1%	12.0	57.1%
Adult Female	0	---	0.0	---	1	7.1%	1.5	7.1%
Adult Unknown Sex	0	---	0.0	---	4	28.6%	6.0	28.6%
Juvenile Male	0	---	0.0	---	1	7.1%	1.5	7.1%
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	---	14	100.0%	21.0	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kodiak Tribal Council and Kodiak Area Native Association 2005.

Table 32. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Larsen Bay, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	35
Surveyed Households	28
Sampling Fraction	80.0%
Sample Household Members	74
Estimated Household Members	92.5
2000 U.S. Census Estimated Native Population	91

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	42.9%
Hunted	0.0%	21.4%
Harvested	0.0%	21.4%
Received	0.0%	32.1%
Gave Away	0.0%	21.4%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	12.5
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	12.5
Number Harvested Per Capita	0.00	0.14

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	1	0	0	0	0	0	0	2	0	4	1	0	10
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	1	0	0	0	0	0	0	2	0	4	1	0	10
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	5.0	1.3	0.0	12.5
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	0.0	0.0
Total Take	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	5.0	1.3	0.0	12.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	5.0	1.3		12.5
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		0.0
Total Take	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	5.0	1.3		12.5
Total Take (%)	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	40.0%	10.0%		100.0%
Cum. Take	2.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8	6.3	6.3	11.3	12.5		
Cum. Take (%)	20.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	50.0%	50.0%	90.0%	100.0%		

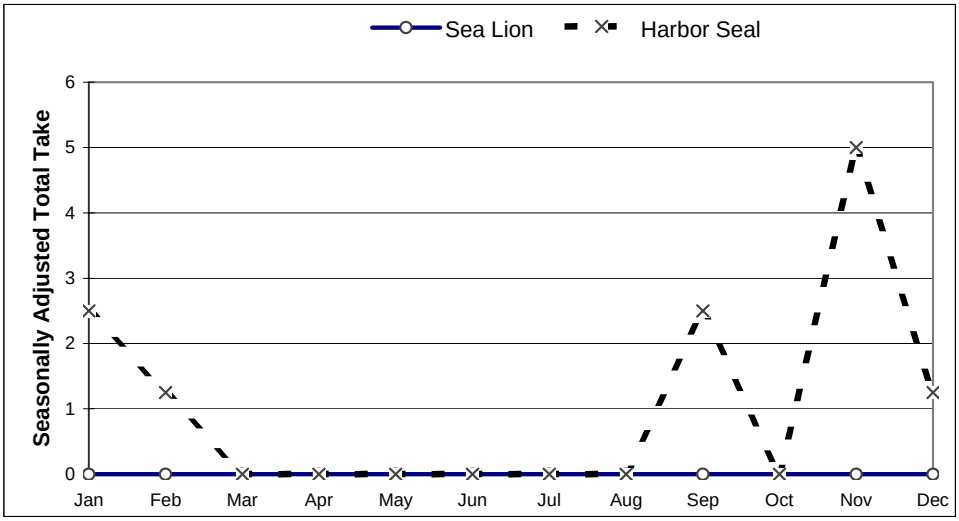
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Larsen Bay and Larsen Bay Tribal Council, 2005.

Table 32. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Larsen Bay, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	9	90.0%	11.3	90.0%
Adult Female	0	---	0.0	---	1	10.0%	1.3	10.0%
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	---	10	100.0%	12.5	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION

Year	Harvest	Struck/ Lost	Total Take
1992	1.1	0.0	1.1
1993	0.0	0.0	0.0
1994	2.2	0.0	2.2
1995	2.0	1.0	3.0
1996	0.0	0.0	0.0
1997	0.0	0.0	0.0
1998	0.0	0.0	0.0
2000	0.0	0.0	0.0
2001	0.0	0.0	0.0
2002	0.0	0.0	0.0
2003	0.0	0.0	0.0
2004	0.0	0.0	0.0

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	6.5	0.0	6.5
1993	7.7	5.5	13.2
1994	13.4	2.2	15.7
1995	11.0	0.0	11.0
1996	15.0	0.0	15.0
1997	9.8	4.2	13.9
1998	1.7	0.0	1.7
2000	18.6	0.0	18.6
2001	9.0	1.1	10.2
2002	3.3	0.0	3.3
2003	2.5	0.0	2.5
2004	12.5	0.0	12.5

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Larsen Bay and Larsen Bay Tribal Council, 2005.

Table 33. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Old Harbor, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	65
Surveyed Households	55
Sampling Fraction	84.6%
Sample Household Members	158
Estimated Household Members	186.7
2000 U.S. Census Estimated Native Population	203

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	60.0%	78.2%
Hunted	12.7%	27.3%
Harvested	10.9%	25.5%
Received	49.1%	54.5%
Gave Away	20.0%	34.5%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	8.3	37.8
Total Number Struck and Lost	3.5	5.9
Total Number Taken	11.8	43.7
Number Harvested Per Capita	0.04	0.19

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	1	1	3	2	0	7
Struck & Lost	0	0	0	0	0	0	0	0	3	0	0	0	0	3
Total Take	0	0	0	0	0	0	0	0	4	1	3	2	0	10
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	3.5	2.4	0.0	8.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	3.5
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	1.2	3.5	2.4	0.0	11.8
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	1.2	1.2	3.5	2.4		8.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0		3.5
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	1.2	3.5	2.4		11.8
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	40.0%	10.0%	30.0%	20.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	5.9	9.5	11.8		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	40.0%	50.0%	80.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	3	0	0	2	0	1	5	4	6	8	3	0	32
Struck & Lost	0	0	0	0	0	0	0	3	0	0	0	2	0	5
Total Take	0	3	0	0	2	0	1	8	4	6	8	5	0	37
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	3.5	0.0	0.0	2.4	0.0	1.2	5.9	4.7	7.1	9.5	3.5	0.0	37.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	2.4	0.0	5.9
Total Take	0.0	3.5	0.0	0.0	2.4	0.0	1.2	9.5	4.7	7.1	9.5	5.9	0.0	43.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	3.5	0.0	0.0	2.4	0.0	1.2	5.9	4.7	7.1	9.5	3.5		37.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	2.4		5.9
Total Take	0.0	3.5	0.0	0.0	2.4	0.0	1.2	9.5	4.7	7.1	9.5	5.9		43.7
Total Take (%)	0.0%	8.1%	0.0%	0.0%	5.4%	0.0%	2.7%	21.6%	10.8%	16.2%	21.6%	13.5%		100.0%
Cum. Take	0.0	3.5	3.5	3.5	5.9	5.9	7.1	16.5	21.3	28.4	37.8	43.7		
Cum. Take (%)	0.0%	8.1%	8.1%	8.1%	13.5%	13.5%	16.2%	37.8%	48.6%	64.9%	86.5%	100.0%		

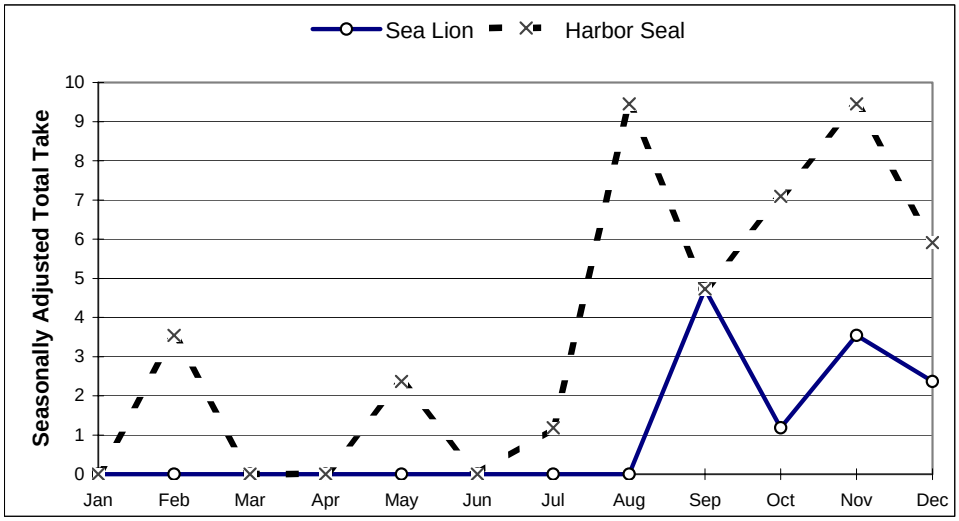
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Old Harbor and Old Harbor Tribal Council, 2005.

Table 33. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Old Harbor, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	5	71.4%	5.9	71.4%	22	68.8%	26.0	68.8%
Adult Female	0	0.0%	0.0	0.0%	2	6.3%	2.4	6.3%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	2	28.6%	2.4	28.6%	8	25.0%	9.5	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%	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	7	100.0%	8.3	100.0%	32	100.0%	37.8	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION

Year	Harvest	Struck/ Lost	Total Take
1992	32.9	13.2	46.1
1993	32.1	1.0	33.2
1994	46.2	1.3	47.5
1995	107.1	5.7	112.9
1996	44.9	5.3	50.2
1997	22.7	3.6	26.3
1998	10.3	2.3	12.6
2000	12.9	0.0	12.9
2001	26.3	2.2	28.5
2002	8.5	0.0	8.5
2003	27.6	4.4	31.9
2004	8.3	3.5	11.8

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	86.8	5.3	92.1
1993	67.6	2.7	70.3
1994	83.7	1.3	85.0
1995	112.0	2.4	114.4
1996	113.5	1.3	114.8
1997	80.0	4.8	84.8
1998	55.1	1.1	56.2
2000	59.1	0.0	59.1
2001	71.3	0.0	71.3
2002	40.5	0.0	40.5
2003	66.7	2.9	69.6
2004	37.8	5.9	43.7

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Old Harbor and Old Harbor Tribal Council, 2005.

Table 34. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ouzinkie, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	43
Surveyed Households	33
Sampling Fraction	76.7%
Sample Household Members	118
Estimated Household Members	153.8
2000 U.S. Census Estimated Native Population	197

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	9.1%	100.0%
Hunted	9.1%	57.6%
Harvested	6.1%	57.6%
Received	3.0%	69.7%
Gave Away	6.1%	54.5%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	2.6	73.0
Total Number Struck and Lost	0.0	3.9
Total Number Taken	2.6	76.9
Number Harvested Per Capita	0.01	0.37

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	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	0	1	0	0	0	0	0	0	0	1	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	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	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	2.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	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	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0		2.6
Total Take (%)	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6		
Cum. Take (%)	0.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	2	1	1	3	2	1	3	4	13	13	10	0	56
Struck & Lost	0	0	0	0	1	0	0	0	0	2	0	0	0	3
Total Take	3	2	1	1	4	2	1	3	4	15	13	10	0	59
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.9	2.6	1.3	1.3	3.9	2.6	1.3	3.9	5.2	16.9	16.9	13.0	0.0	73.0
Struck & Lost	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	3.9
Total Take	3.9	2.6	1.3	1.3	5.2	2.6	1.3	3.9	5.2	19.5	16.9	13.0	0.0	76.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.9	2.6	1.3	1.3	3.9	2.6	1.3	3.9	5.2	16.9	16.9	13.0		73.0
Struck & Lost	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	2.6	0.0	0.0		3.9
Total Take	3.9	2.6	1.3	1.3	5.2	2.6	1.3	3.9	5.2	19.5	16.9	13.0		76.9
Total Take (%)	5.1%	3.4%	1.7%	1.7%	6.8%	3.4%	1.7%	5.1%	6.8%	25.4%	22.0%	16.9%		100.0%
Cum. Take	3.9	6.5	7.8	9.1	14.3	16.9	18.2	22.2	27.4	46.9	63.8	76.9		
Cum. Take (%)	5.1%	8.5%	10.2%	11.9%	18.6%	22.0%	23.7%	28.8%	35.6%	61.0%	83.1%	100.0%		

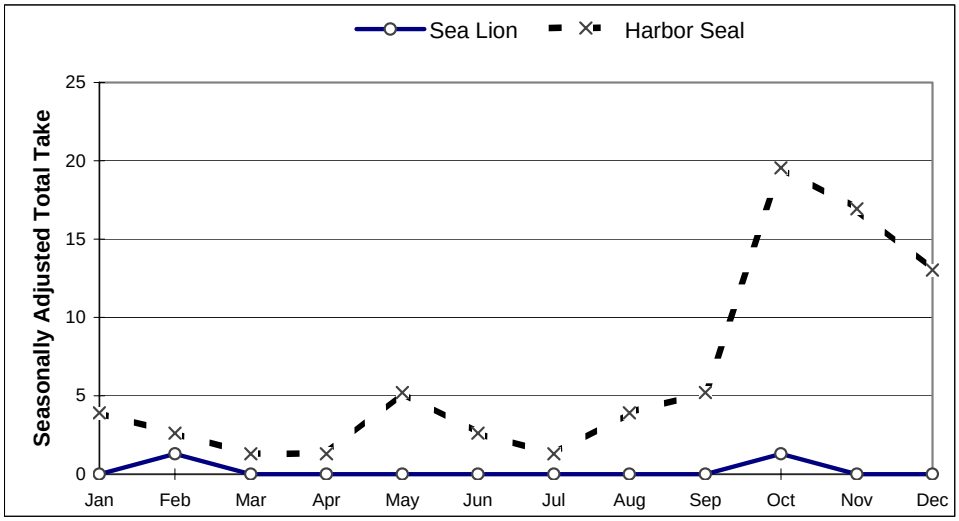
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Native Corporation, City of Ouzinkie, and Ouzinkie Tribal Council, 2005.

Table 34. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ouzinkie, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	2	100.0%	2.6	100.0%	31	55.4%	40.4	55.4%
Adult Female	0	0.0%	0.0	0.0%	14	25.0%	18.2	25.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	11	19.6%	14.3	19.6%
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	2	100.0%	2.6	100.0%	56	100.0%	73.0	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Native Corporation, City of Ouzinkie, and Ouzinkie Tribal Council, 2005.

Table 35. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Port Lions, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	17
Surveyed Households	14
Sampling Fraction	82.4%
Sample Household Members	32
Estimated Household Members	38.9
2000 U.S. Census Estimated Native Population	163

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	7.1%	42.9%
Hunted	7.1%	21.4%
Harvested	7.1%	21.4%
Received	0.0%	28.6%
Gave Away	7.1%	21.4%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	1.2	20.6
Total Number Struck and Lost	0.0	0.0
Total Number Taken	1.2	20.6
Number Harvested Per Capita	0.01	0.13

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	0	0	0	0	0	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	1	0	0	0	0	0	0	0	0	0	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	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	1.2
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	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	1.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.2
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	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.2
Total Take (%)	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2		
Cum. Take (%)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	2	1	0	2	1	1	1	4	3	1	0	0	17
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	2	1	0	2	1	1	1	4	3	1	0	0	17
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.2	2.4	1.2	0.0	2.4	1.2	1.2	1.2	4.9	3.6	1.2	0.0	0.0	20.6
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	1.2	2.4	1.2	0.0	2.4	1.2	1.2	1.2	4.9	3.6	1.2	0.0	0.0	20.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.2	2.4	1.2	0.0	2.4	1.2	1.2	1.2	4.9	3.6	1.2	0.0		20.6
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	1.2	2.4	1.2	0.0	2.4	1.2	1.2	1.2	4.9	3.6	1.2	0.0		20.6
Total Take (%)	5.9%	11.8%	5.9%	0.0%	11.8%	5.9%	5.9%	5.9%	23.5%	17.6%	5.9%	0.0%		100.0%
Cum. Take	1.2	3.6	4.9	4.9	7.3	8.5	9.7	10.9	15.8	19.4	20.6	20.6		
Cum. Take (%)	5.9%	17.6%	23.5%	23.5%	35.3%	41.2%	47.1%	52.9%	76.5%	94.1%	100.0%	100.0%		

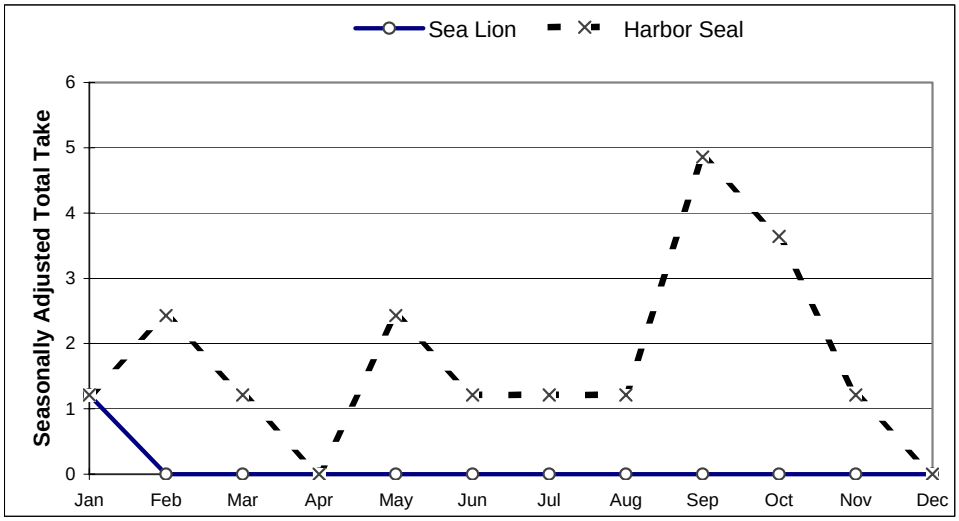
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Lions Tribal Council and City of Port Lions, 2005.

Table 35. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Lions, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	1	100.0%	1.2	100.0%	6	35.3%	7.3	35.3%
Adult Female	0	0.0%	0.0	0.0%	3	17.6%	3.6	17.6%
Adult Unknown Sex	0	0.0%	0.0	0.0%	7	41.2%	8.5	41.2%
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	5.9%	1.2	5.9%
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%	1.2	100.0%	17	100.0%	20.6	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION

Year	Harvest	Struck/ Lost	Total Take
1992	1.1	2.2	3.3
1993	4.0	1.0	5.0
1994	0.0	0.0	0.0
1995	0.0	0.0	0.0
1996	0.0	0.0	0.0
1997	1.0	0.0	1.0
1998	1.0	0.0	1.0
2000	0.0	0.0	0.0
2001	0.0	0.0	0.0
2002	0.0	0.0	0.0
2003	0.0	0.0	0.0
2004	1.2	0.0	1.2

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	36.9	2.2	39.1
1993	26.0	1.0	27.0
1994	8.0	0.0	8.0
1995	2.0	0.0	2.0
1996	4.0	0.0	4.0
1997	5.0	0.0	5.0
1998	6.0	0.0	6.0
2000	6.4	0.0	6.4
2001	8.8	1.1	9.9
2002	13.0	0.0	13.0
2003	12.9	0.0	12.9
2004	20.6	0.0	20.6

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Lions Tribal Council and City of Port Lions, 2005.

Table 36. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Chignik Bay, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	26
Surveyed Households	17
Sampling Fraction	65.4%
Sample Household Members	39
Estimated Household Members	59.4
2000 U.S. Census Estimated Native Population	48

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	11.8%
Hunted	0.0%	0.0%
Harvested	0.0%	0.0%
Received	0.0%	11.8%
Gave Away	0.0%	0.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	0.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	0.0
Number Harvested Per Capita	0.00	0.00

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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 (%)	---	---	---	---	---	---	---	---	---	---	---	---		

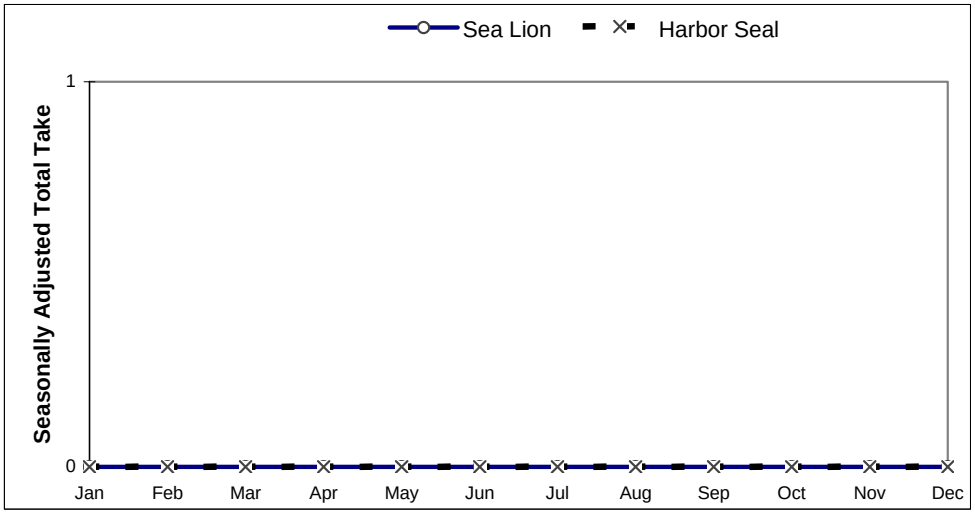
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Bay Traditional Village Council, 2005.

Table 36. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chignik Bay, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (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				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	2.4	1.2	3.6
1993	0.0	0.0	0.0	1993	6.3	5.0	11.3
1994	0.0	0.0	0.0	1994	3.4	0.0	3.4
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0
1996	0.0	0.0	0.0	1996	1.0	0.0	1.0
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	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	1.3	0.0	1.3
2003	0.0	0.0	0.0	2003	2.8	0.0	2.8
2004	0.0	0.0	0.0	2004	0.0	0.0	0.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Bay Traditional Village Council, 2005.

Table 37. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: Chignik Lagoon, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	19
Surveyed Households	17
Sampling Fraction	89.5%
Sample Household Members	55
Estimated Household Members	61.5
2000 U.S. Census Estimated Native Population	85

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	5.9%
Hunted	0.0%	5.9%
Harvested	0.0%	5.9%
Received	0.0%	0.0%
Gave Away	0.0%	5.9%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	1.1
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	1.1
Number Harvested Per Capita	0.00	0.01

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	1	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	0	1	0	0	0	1
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	1.1	0.0	0.0	0.0	1.1
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	1.1	0.0	0.0	0.0	1.1
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	1.1	0.0	0.0		1.1
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	1.1	0.0	0.0		1.1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%		

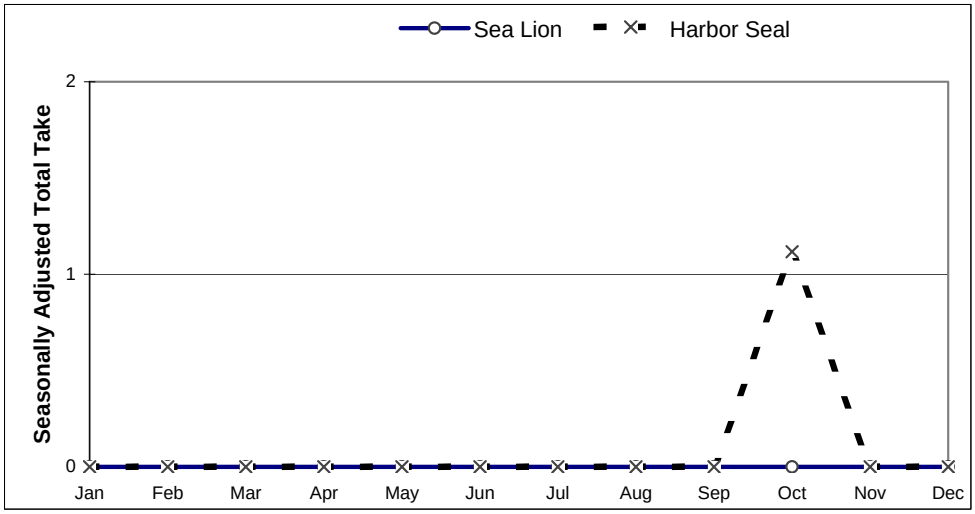
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lagoon Traditional Village Council, 2005.

Table 37. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chignik Lagoon, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (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	---	1	100.0%	1.1	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	---	1	100.0%	1.1	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lagoon Traditional Village Council, 2005.

Table 38. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: Chignik Lake, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	20
Surveyed Households	6
Sampling Fraction	30.0%
Sample Household Members	21
Estimated Household Members	70.0
2000 U.S. Census Estimated Native Population	127

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	66.7%
Hunted	0.0%	16.7%
Harvested	0.0%	16.7%
Received	0.0%	50.0%
Gave Away	0.0%	66.7%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	6.7
Total Number Struck and Lost	0.0	3.3
Total Number Taken	0.0	10.0
Number Harvested Per Capita	0.00	0.05

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
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	1	0	0	1
Total Take	0	0	0	0	0	0	0	0	0	0	3	0	0	3
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	6.7	0.0	0.0	6.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	3.3
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	10.0
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	6.7	0.0		6.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0		3.3
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0		10.0
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	10.0	10.0		
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%		

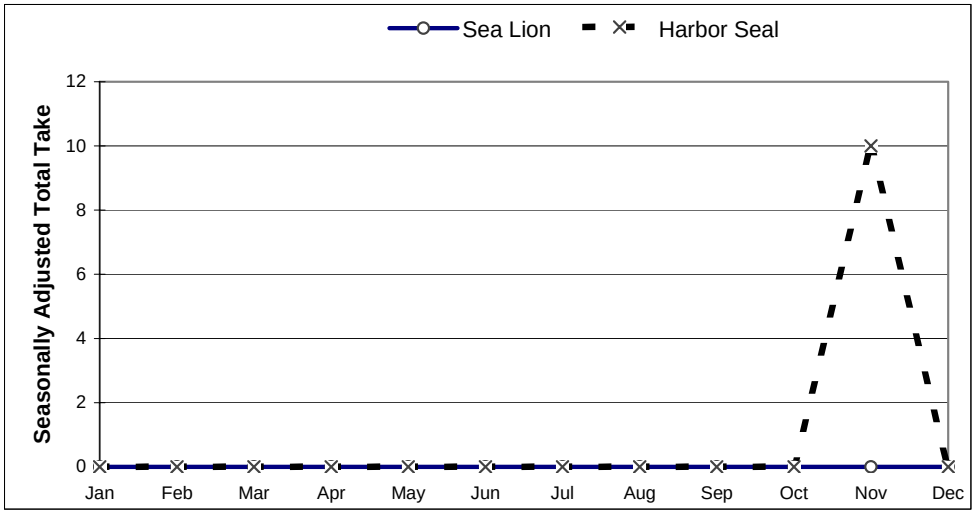
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lake Traditional Village Council, 2005.

Table 38. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chignik Lake, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (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	---	2	100.0%	6.7	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%	6.7	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lake Traditional Village Council, 2005.

Table 39. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: False Pass, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	18
Surveyed Households	13
Sampling Fraction	72.2%
Sample Household Members	43
Estimated Household Members	60.1
2000 U.S. Census Estimated Native Population	42

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	46.2%
Hunted	0.0%	15.4%
Harvested	0.0%	7.7%
Received	0.0%	38.5%
Gave Away	0.0%	23.1%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	2.8
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	2.8
Number Harvested Per Capita	0.00	0.07

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	1	0	1	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	1	0	1	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	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	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	1.4	0.0	1.4	0.0	0.0	2.8
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	1.4	0.0	1.4	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	1.4	0.0	1.4	0.0		2.8
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	50.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8	2.8		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	100.0%	100.0%		

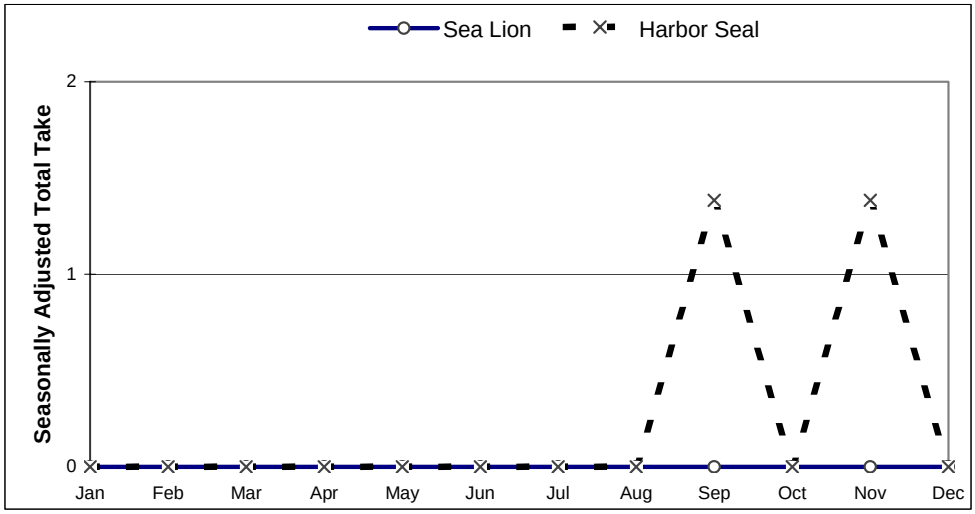
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the False Pass Tribal Council and City of False Pass, (Numbers based on 2003 harvest estimates)

Table 39. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: False Pass, 2003

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (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	---	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	---	2	100.0%	2.8	100.0%
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				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the False Pass Tribal Council and City of False Pass, (Numbers based on 2003 harvest estimates)

Table 40. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ivanof Bay, 2004

SAMPLING DESIGN:
TWO-STRATA

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 Population	21

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	0.0%
Hunted	0.0%	0.0%
Harvested	0.0%	0.0%
Received	0.0%	0.0%
Gave Away	0.0%	0.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	0.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	0.0
Number Harvested Per Capita	0.00	0.00

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
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 SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	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
Total Take	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		
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
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 SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
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
Total Take (%)	0	0	0	0	0	0	0	0	0	0	0	0		0.0%
Cum. Take	0	0	0	0	0	0	0	0	0	0	0	0		
Cum. Take (%)	0	0	0	0	0	0	0	0	0	0	0	0		

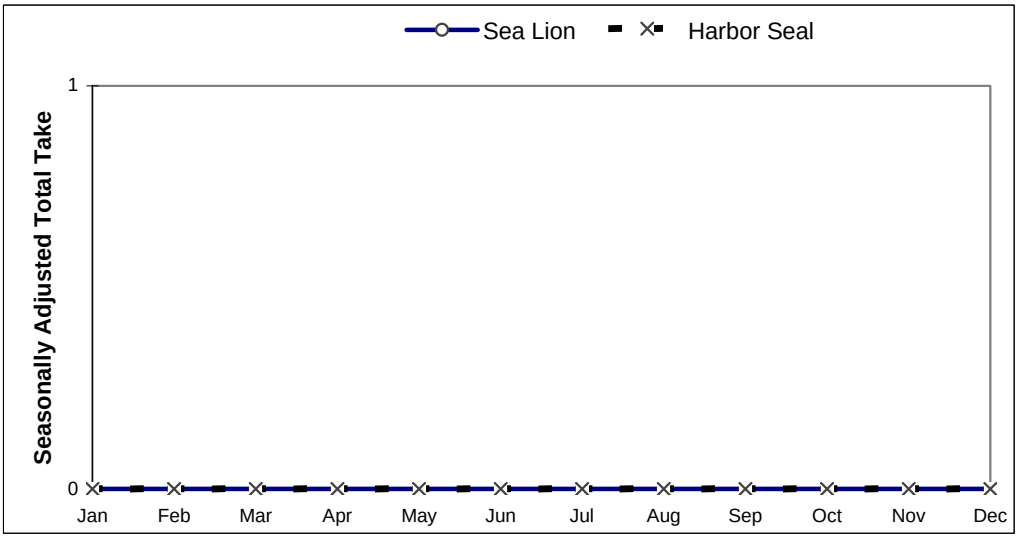
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ivanof Bay Traditional Village Council. 2005.

Table 40. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ivanof Bay, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0	---	0	---	0	---
Adult Female	0	---	0	---	0	---	0	---
Adult Unknown Sex	0	---	0	---	0	---	0	---
Juvenile Male	0	---	0	---	0	---	0	---
Juvenile Female	0	---	0	---	0	---	0	---
Juvenile Unknown Sex	0	---	0	---	0	---	0	---
Pup Male	0	---	0	---	0	---	0	---
Pup Female	0	---	0	---	0	---	0	---
Pup Unknown Sex	0	---	0	---	0	---	0	---
Male Unknown Age	0	---	0	---	0	---	0	---
Female Unknown Age	0	---	0	---	0	---	0	---
Unknown Sex and Age	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

Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0
1993	2.3	1.2	3.5
1994	0.0	0.0	0.0
1995	0.0	0.0	0.0
1996	2.4	0.0	2.4
1997	1.8	0.0	1.8
1998	1.8	0.0	1.8
2000	0.0	0.0	0.0
2001	1.4	1.4	2.8
2002	1.4	1.4	2.8
2003	0.0	0.0	0.0
2004	0.0	0.0	0.0

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	10.0	1.0	11.0
1993	16.3	4.7	21.0
1994	12.0	1.3	13.3
1995	18.7	2.7	21.3
1996	13.2	0.0	13.2
1997	9.0	1.8	10.8
1998	9.0	1.8	10.8
2000	3.2	0.0	3.2
2001	7.0	1.4	8.4
2002	7.0	1.4	8.4
2003	0.0	0.0	0.0
2004	0.0	0.0	0.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ivanof Bay Traditional Village Council. 2005.

Note: Ivanof Bay had no year round residents in 2003 and 2004.

Table 41. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: King Cove, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	17
Surveyed Households	10
Sampling Fraction	58.8%
Sample Household Members	22
Estimated Household Members	36.8
2000 U.S. Census Estimated Native Population	379

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	30.0%	90.0%
Hunted	10.0%	90.0%
Harvested	10.0%	90.0%
Received	30.0%	80.0%
Gave Away	20.0%	80.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	1.7	32.3
Total Number Struck and Lost	0.0	0.0
Total Number Taken	1.7	32.3
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	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	1	0	0	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	1	0	0	0	0	0	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	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	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	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.7
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	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.7
Total Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	0	2	0	5	1	1	2	1	2	1	1	1	19
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	0	2	0	5	1	1	2	1	2	1	1	1	19
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.4	0.0	3.4	0.0	8.5	1.7	1.7	3.4	1.7	3.4	1.7	1.7	1.7	32.3
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	3.4	0.0	3.4	0.0	8.5	1.7	1.7	3.4	1.7	3.4	1.7	1.7	1.7	32.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.6	0.0	3.6	0.0	9.0	1.8	1.8	3.6	1.8	3.6	1.8	1.8		32.3
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	3.6	0.0	3.6	0.0	9.0	1.8	1.8	3.6	1.8	3.6	1.8	1.8		32.3
Total Take (%)	11.1%	0.0%	11.1%	0.0%	27.8%	5.6%	5.6%	11.1%	5.6%	11.1%	5.6%	5.6%		100.0%
Cum. Take	3.6	3.6	7.2	7.2	16.2	17.9	19.7	23.3	25.1	28.7	30.5	32.3		
Cum. Take (%)	11.1%	11.1%	22.2%	22.2%	50.0%	55.6%	61.1%	72.2%	77.8%	88.9%	94.4%	100.0%		

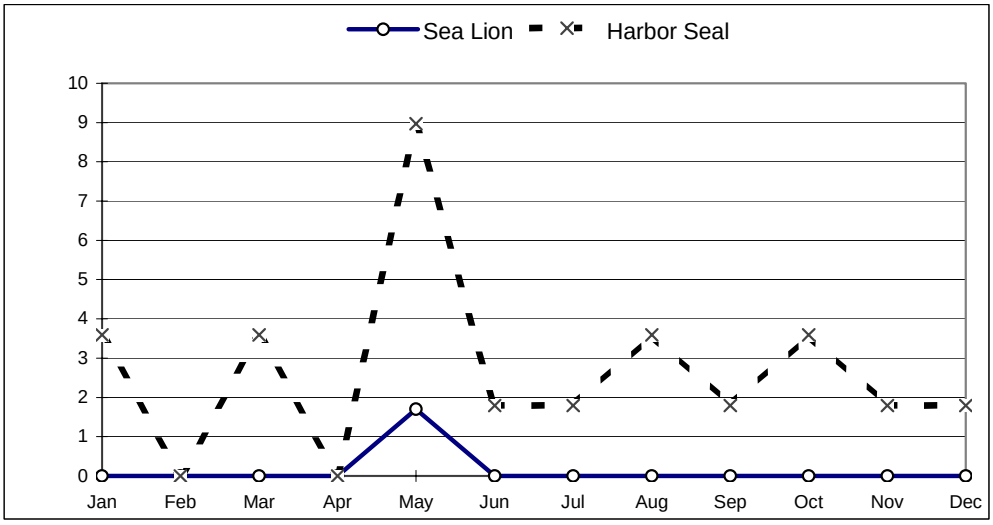
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Agdaagux Tribe of King Cove, Belofski Village Council, and City of King Cove. 2005.

Table 41. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: King Cove, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	1	100.0%	1.7	100.0%	15	78.9%	25.5	78.9%
Adult Female	0	0.0%	0.0	0.0%	1	5.3%	1.7	5.3%
Adult Unknown Sex	0	0.0%	0.0	0.0%	3	15.8%	5.1	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%	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%	1.7	100.0%	19	100.0%	32.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION

Year	Harvest	Struck/ Lost	Total Take
1992	1.3	0.0	1.3
1993	1.2	0.0	1.2
1994	3.2	1.1	4.3
1995	5.0	0.0	5.0
1996	0.0	0.0	0.0
1997	4.2	0.0	4.2
1998	4.3	0.0	4.3
2000	4.3	0.0	4.3
2001	3.0	0.0	3.0
2002	0.0	1.5	1.5
2003	0.0	0.0	0.0
2004	1.7	0.0	1.7

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	26.0	6.7	32.7
1993	12.8	3.5	16.3
1994	20.9	1.1	22.0
1995	49.0	3.0	52.0
1996	14.0	5.0	19.0
1997	16.9	2.1	19.1
1998	18.2	0.0	18.2
2000	19.3	2.1	21.4
2001	22.0	4.0	26.0
2002	7.5	3.0	10.5
2003	11.0	4.4	15.4
2004	32.3	0.0	32.3

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Agdaagux Tribe of King Cove, Belofski Village Council, and City of King Cove. 2005.

Table 42. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Perryville, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	30
Surveyed Households	27
Sampling Fraction	90.0%
Sample Household Members	86
Estimated Household Members	95.6
2000 U.S. Census Estimated Native Population	105

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	11.1%	85.2%
Hunted	7.4%	40.7%
Harvested	7.4%	22.2%
Received	7.4%	70.4%
Gave Away	7.4%	44.4%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	2.2	20.0
Total Number Struck and Lost	0.0	5.6
Total Number Taken	2.2	25.6
Number Harvested Per Capita	0.02	0.19

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	1	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	0	1	0	0	0	0	0	1	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	2.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0		2.2
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	1.1	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0		2.2
Total Take (%)	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2		
Cum. Take (%)	0.0%	0.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	1	1	0	5	0	0	0	3	4	1	0	1	18
Struck & Lost	0	1	1	1	0	0	0	0	0	2	0	0	0	5
Total Take	2	2	2	1	5	0	0	0	3	6	1	0	1	23
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.2	1.1	1.1	0.0	5.6	0.0	0.0	0.0	3.3	4.4	1.1	0.0	1.1	20.0
Struck & Lost	0.0	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	5.6
Total Take	2.2	2.2	2.2	1.1	5.6	0.0	0.0	0.0	3.3	6.7	1.1	0.0	1.1	25.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.4	1.2	1.2	0.0	5.9	0.0	0.0	0.0	3.5	4.7	1.2	0.0		20.0
Struck & Lost	0.0	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0		5.6
Total Take	2.4	2.3	2.3	1.1	5.9	0.0	0.0	0.0	3.5	6.9	1.2	0.0		25.6
Total Take (%)	9.2%	9.0%	9.0%	4.3%	23.0%	0.0%	0.0%	0.0%	13.8%	27.1%	4.6%	0.0%		100.0%
Cum. Take	2.4	4.6	6.9	8.0	13.9	13.9	13.9	13.9	17.5	24.4	25.6	25.6		
Cum. Take (%)	9.2%	18.2%	27.1%	31.5%	54.5%	54.5%	54.5%	54.5%	68.3%	95.4%	100.0%	100.0%		

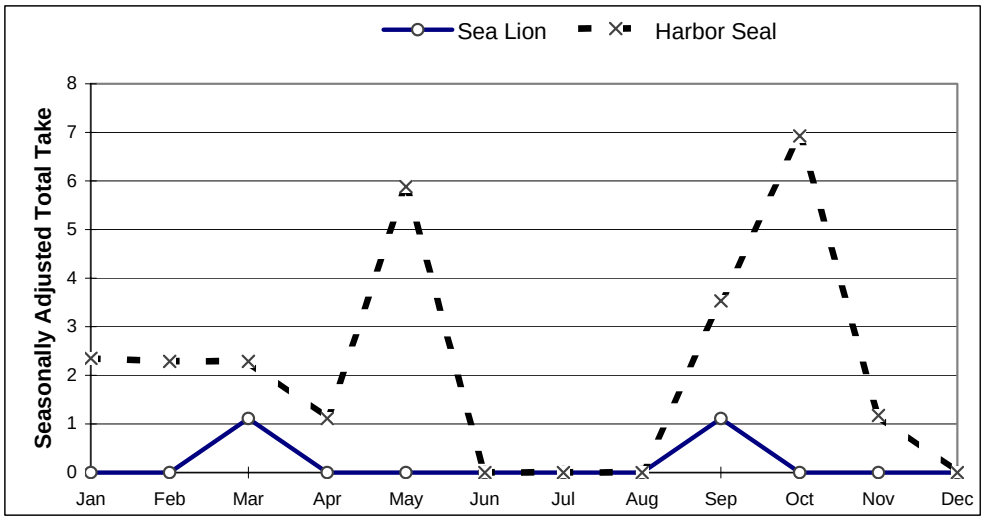
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Perryville Traditional Village Council, 2005.

Table 42. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Perryville, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	6	33.3%	6.7	33.3%
Adult Female	0	0.0%	0.0	0.0%	1	5.6%	1.1	5.6%
Adult Unknown Sex	0	0.0%	0.0	0.0%	2	11.1%	2.2	11.1%
Juvenile Male	2	100.0%	2.2	100.0%	1	5.6%	1.1	5.6%
Juvenile Female	0	0.0%	0.0	0.0%	1	5.6%	1.1	5.6%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	7	38.9%	7.8	38.9%
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	2	100.0%	2.2	100.0%	18	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				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Perryville Traditional Village Council, 2005.

Table 43. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Sand Point, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	15
Surveyed Households	12
Sampling Fraction	80.0%
Sample Household Members	37
Estimated Household Members	46.3
2000 U.S. Census Estimated Native Population	421

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	66.7%
Hunted	0.0%	50.0%
Harvested	0.0%	50.0%
Received	0.0%	16.7%
Gave Away	0.0%	33.3%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	15.0
Total Number Struck and Lost	0.0	1.3
Total Number Taken	0.0	16.3
Number Harvested Per Capita	0.00	0.04

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	1	0	0	2	3	1	1	1	2	0	0	12
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Total Take	0	1	1	0	0	2	3	1	1	1	2	1	0	13
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.3	1.3	0.0	0.0	2.5	3.8	1.3	1.3	1.3	2.5	0.0	0.0	15.0
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	1.3	1.3	0.0	0.0	2.5	3.8	1.3	1.3	1.3	2.5	1.3	0.0	16.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.3	1.3	0.0	0.0	2.5	3.8	1.3	1.3	1.3	2.5	0.0		15.0
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	1.3	1.3	0.0	0.0	2.5	3.8	1.3	1.3	1.3	2.5	1.3		16.3
Total Take (%)	0.0%	7.7%	7.7%	0.0%	0.0%	15.4%	23.1%	7.7%	7.7%	7.7%	15.4%	7.7%		100.0%
Cum. Take	0.0	1.3	2.5	2.5	2.5	5.0	8.8	10.0	11.3	12.5	15.0	16.3		
Cum. Take (%)	0.0%	7.7%	15.4%	15.4%	15.4%	30.8%	53.8%	61.5%	69.2%	76.9%	92.3%	100.0%		

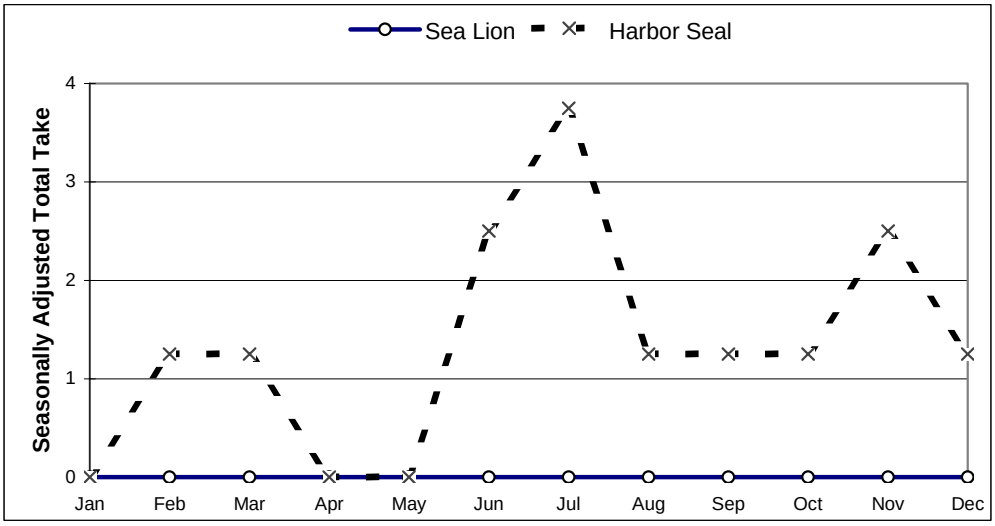
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Sand Point, Unga Tribal Council, and Qagan Tayagungi Tribe of Sand Point, 2005.

Table 43. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Sand Point, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	6	50.0%	7.5	50.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	3	25.0%	3.8	25.0%
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	---	3	25.0%	3.8	25.0%
Total	0	---	0.0	---	12	100.0%	15.0	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Sand Point, Unga Tribal Council, and Qagan Tayagungi Tribe of Sand Point, 2005.

Table 44. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Adak, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	1
Surveyed Households	1
Sampling Fraction	100.0%
Sample Household Members	1
Estimated Household Members	1.0
2000 U.S. Census Estimated Native Population	118

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	100.0%	100.0%
Hunted	100.0%	0.0%
Harvested	100.0%	0.0%
Received	0.0%	100.0%
Gave Away	100.0%	100.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	2.0	0.0
Total Number Struck and Lost	1.0	0.0
Total Number Taken	3.0	0.0
Number Harvested Per Capita	0.02	0.00

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	1	1	0	0	2
Struck & Lost	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	1	1	0	1	3
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	1.0	1.0	0.0	0.0	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	1.0	1.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	3.0
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	1.0	1.0	0.0		2.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0		1.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.0		3.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	3.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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 (%)	---	---	---	---	---	---	---	---	---	---	---	---		

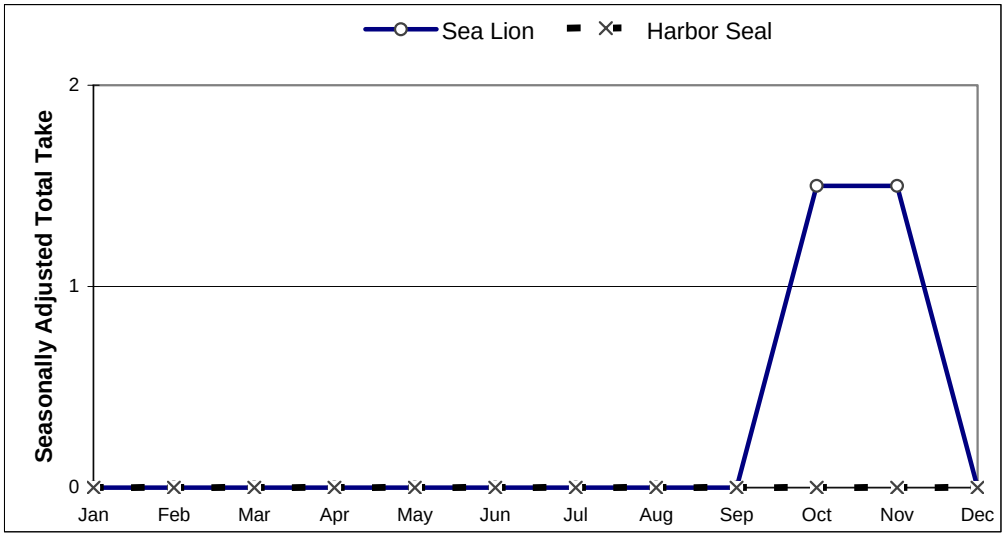
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleut Marine Mammal Commission and the Aleut Corporation, 2005.

Table 44. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Adak, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	2	100.0%	2.0	100.0%	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	0	0.0%	0.0	0.0%	0	---	0.0	---
Total	2	100.0%	2.0	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				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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	5.0
2004	2.0	1.0	3.0	2004	0.0	0.0	0.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleut Marine Mammal Commission and the Aleut Corporation, 2005.

Table 45. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Akutan, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	27
Surveyed Households	17
Sampling Fraction	63.0%
Sample Household Members	42
Estimated Household Members	66.7
2000 U.S. Census Estimated Native Population	117

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	58.8%	41.2%
Hunted	11.8%	17.6%
Harvested	11.8%	17.6%
Received	52.9%	35.3%
Gave Away	11.8%	11.8%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	4.8	9.5
Total Number Struck and Lost	0.0	1.6
Total Number Taken	4.8	11.1
Number Harvested Per Capita	0.04	0.08

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	1	1	0	0	0	0	0	0	0	0	0	0	3
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	1	1	0	0	0	0	0	0	0	0	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
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	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		4.8
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	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		4.8
Total Take (%)	33.3%	33.3%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	1.6	3.2	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8		
Cum. Take (%)	33.3%	66.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	1	0	1	0	0	0	1	0	2	0	0	0	6
Struck & Lost	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Total Take	1	2	0	1	0	0	0	1	0	2	0	0	0	7
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.6	1.6	0.0	1.6	0.0	0.0	0.0	1.6	0.0	3.2	0.0	0.0	0.0	9.5
Struck & Lost	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
Total Take	1.6	3.2	0.0	1.6	0.0	0.0	0.0	1.6	0.0	3.2	0.0	0.0	0.0	11.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.6	1.6	0.0	1.6	0.0	0.0	0.0	1.6	0.0	3.2	0.0	0.0		9.5
Struck & Lost	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.6
Total Take	1.6	3.2	0.0	1.6	0.0	0.0	0.0	1.6	0.0	3.2	0.0	0.0		11.1
Total Take (%)	14.3%	28.6%	0.0%	14.3%	0.0%	0.0%	0.0%	14.3%	0.0%	28.6%	0.0%	0.0%		100.0%
Cum. Take	1.6	4.8	4.8	6.4	6.4	6.4	6.4	7.9	7.9	11.1	11.1	11.1		
Cum. Take (%)	14.3%	42.9%	42.9%	57.1%	57.1%	57.1%	57.1%	71.4%	71.4%	100.0%	100.0%	100.0%		

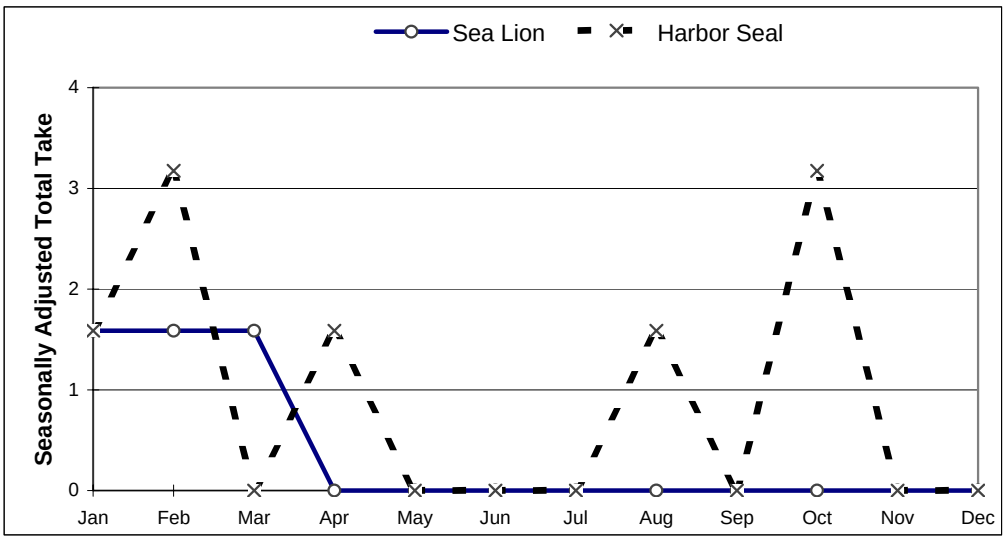
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Akutan Traditional Village Council, City of Akutan, and Akutan Corporation, 2005.

Table 45. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Akutan, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	1	33.3%	1.6	33.3%	6	100.0%	9.5	100.0%
Adult Female	2	66.7%	3.2	66.7%	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	3	100.0%	4.8	100.0%	6	100.0%	9.5	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Akutan Traditional Village Council, City of Akutan, and Akutan Corporation, 2005.

Table 46. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Atka, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Native Households	19
Surveyed Households	9
Sampling Fraction	47.4%
Sample Household Members	26
Estimated Household Members	54.9
2000 U.S. Census Estimated Native Population	84

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	100.0%	100.0%
Hunted	77.8%	77.8%
Harvested	55.6%	77.8%
Received	77.8%	66.7%
Gave Away	66.7%	55.6%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	50.7	73.9
Total Number Struck and Lost	12.7	16.9
Total Number Taken	63.3	90.8
Number Harvested Per Capita	0.60	0.88

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	2	3	2	2	1	1	0	2	1	2	1	6	24
Struck & Lost	1	0	1	0	0	0	0	0	0	1	0	0	3	6
Total Take	2	2	4	2	2	1	1	0	2	2	2	1	9	30
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.1	4.2	6.3	4.2	4.2	2.1	2.1	0.0	4.2	2.1	4.2	2.1	12.7	50.7
Struck & Lost	2.1	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	6.3	12.7
Total Take	4.2	4.2	8.4	4.2	4.2	2.1	2.1	0.0	4.2	4.2	4.2	2.1	19.0	63.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.8	5.6	8.4	5.6	5.6	2.8	2.8	0.0	5.6	2.8	5.6	2.8		50.7
Struck & Lost	4.2	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0		12.7
Total Take	7.0	5.6	12.7	5.6	5.6	2.8	2.8	0.0	5.6	7.0	5.6	2.8		63.3
Total Take (%)	11.1%	8.9%	20.0%	8.9%	8.9%	4.4%	4.4%	0.0%	8.9%	11.1%	8.9%	4.4%		100.0%
Cum. Take	7.0	12.7	25.3	31.0	36.6	39.4	42.2	42.2	47.9	54.9	60.5	63.3		
Cum. Take (%)	11.1%	20.0%	40.0%	48.9%	57.8%	62.2%	66.7%	66.7%	75.6%	86.7%	95.6%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	2	5	1	3	1	2	1	3	1	3	0	13	35
Struck & Lost	0	0	0	0	0	0	0	0	1	0	1	0	6	8
Total Take	0	2	5	1	3	1	2	1	4	1	4	0	19	43
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	4.2	10.6	2.1	6.3	2.1	4.2	2.1	6.3	2.1	6.3	0.0	27.4	73.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	2.1	0.0	12.7	16.9
Total Take	0.0	4.2	10.6	2.1	6.3	2.1	4.2	2.1	8.4	2.1	8.4	0.0	40.1	90.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	6.7	16.8	3.4	10.1	3.4	6.7	3.4	10.1	3.4	10.1	0.0		73.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0	8.4	0.0		16.9
Total Take	0.0	6.7	16.8	3.4	10.1	3.4	6.7	3.4	18.5	3.4	18.5	0.0		90.8
Total Take (%)	0.0%	7.4%	18.5%	3.7%	11.1%	3.7%	7.4%	3.7%	20.4%	3.7%	20.4%	0.0%		100.0%
Cum. Take	0.0	6.7	23.5	26.9	36.9	40.3	47.0	50.4	68.9	72.3	90.8	90.8		
Cum. Take (%)	0.0%	7.4%	25.9%	29.6%	40.7%	44.4%	51.8%	55.5%	75.9%	79.6%	100.0%	100.0%		

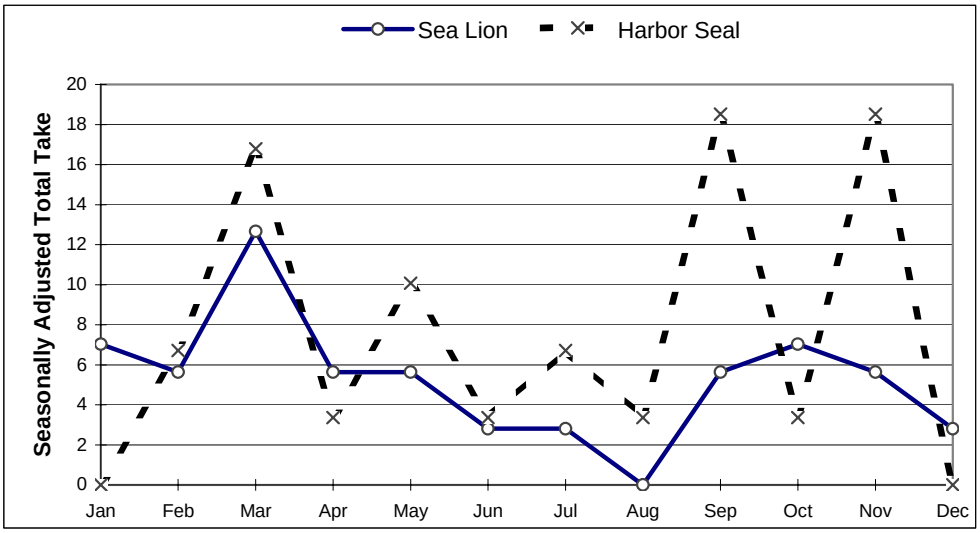
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Atka IRA Council and City of Atka, 2005.

Table 46. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Atka, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	9	37.5%	19.0	37.5%	9	25.7%	19.0	25.7%
Adult Female	7	29.2%	14.8	29.2%	7	20.0%	14.8	20.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	4	11.4%	8.4	11.4%
Juvenile Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	2	8.3%	4.2	8.3%	2	5.7%	4.2	5.7%
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	1	4.2%	2.1	4.2%	0	0.0%	0.0	0.0%
Female Unknown Age	5	20.8%	10.6	20.8%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	13	37.1%	27.4	37.1%
Total	24	100.0%	50.7	100.0%	35	100.0%	73.9	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION

Year	Harvest	Struck/ Lost	Total Take
1992	28.6	9.9	38.5
1993	25.1	0.0	25.1
1994	45.5	8.7	54.2
1995	40.0	0.0	40.0
1996	17.3	0.0	17.3
1997	12.2	0.0	12.2
1998	16.8	0.0	16.8
2000	16.8	0.0	16.8
2001	33.3	11.7	45.0
2002	73.5	12.0	85.5
2003	68.8	12.8	81.6
2004	50.7	12.7	63.3

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	28.6	9.9	38.5
1993	32.7	0.0	32.7
1994	73.7	8.7	82.3
1995	42.5	0.0	42.5
1996	22.7	2.2	24.8
1997	26.0	1.5	27.5
1998	16.8	0.0	16.8
2000	16.8	0.0	16.8
2002	63.3	6.7	70.0
2001	36.0	0.0	36.0
2003	57.6	1.6	59.2
2004	73.9	16.9	90.8

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Atka IRA Council and City of Atka, 2005.

Table 47. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Nikolski, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Native Households	4
Surveyed Households	4
Sampling Fraction	100.0%
Sample Household Members	17
Estimated Household Members	17.0
2000 U.S. Census Estimated Native Population	27

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	50.0%	100.0%
Hunted	50.0%	100.0%
Harvested	50.0%	100.0%
Received	50.0%	25.0%
Gave Away	50.0%	50.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	2.0	6.0
Total Number Struck and Lost	0.0	1.0
Total Number Taken	2.0	7.0
Number Harvested Per Capita	0.07	0.22

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	1	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	0	0	0	0	1	0	0	1	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	2.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0		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
Total Take	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0		2.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	50.0%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	1	0	0	0	1	1	1	1	0	0	0	0	6
Struck & Lost	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Take	2	1	0	0	0	1	1	1	1	0	0	0	0	7
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	6.0
Struck & Lost	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Total Take	2.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	7.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0		6.0
Struck & Lost	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	2.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0		7.0
Total Take (%)	28.6%	14.3%	0.0%	0.0%	0.0%	14.3%	14.3%	14.3%	14.3%	0.0%	0.0%	0.0%		100.0%
Cum. Take	2.0	3.0	3.0	3.0	3.0	4.0	5.0	6.0	7.0	7.0	7.0	7.0		
Cum. Take (%)	28.6%	42.9%	42.9%	42.9%	42.9%	57.1%	71.4%	85.7%	100.0%	100.0%	100.0%	100.0%		

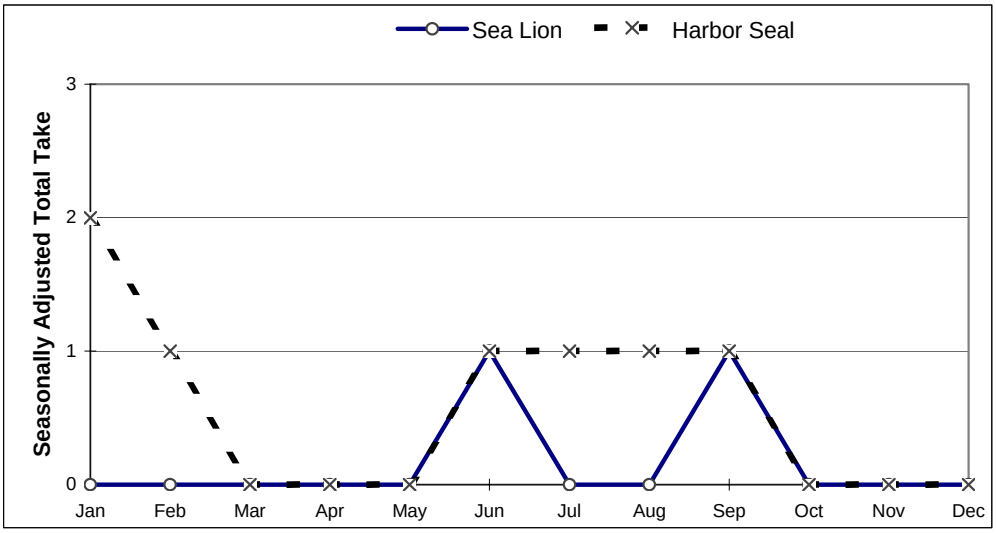
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nikolski IRA Council and Chaluka Corporation 2005.

Table 47. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Nikolski, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Female	1	50.0%	1.0	50.0%	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	1	50.0%	1.0	50.0%	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%	6	100.0%	6.0	100.0%
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	2	100.0%	2.0	100.0%	6	100.0%	6.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION

Year	Harvest	Struck/ Lost	Total Take
1992	8.2	0.0	8.2
1993	6.0	0.0	6.0
1994	0.0	0.0	0.0
1995	---	---	---
1996	3.0	0.0	3.0
1997	3.0	0.0	3.0
1998	1.1	0.0	1.1
2000	1.1	0.0	1.1
2001	6.7	0.0	6.7
2002	1.0	0.0	1.0
2003	0.0	0.0	0.0
2004	2.0	0.0	2.0

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	5.8	3.5	9.3
1993	4.0	1.0	5.0
1994	6.0	0.0	6.0
1995	---	---	---
1996	4.0	1.0	5.0
1997	4.0	1.0	5.0
1998	2.2	0.0	2.2
2000	2.2	0.0	2.2
2001	5.3	0.0	5.3
2002	3.0	1.0	4.0
2003	11.0	3.0	14.0
2004	6.0	1.0	7.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nikolski IRA Council and Chaluka Corporation 2005.

Table 48. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Unalaska, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Referred Households	20
Surveyed Households	7
Sampling Fraction	35.0%
Sample Household Members	23
Estimated Household Members	65.7
2000 U.S. Census Estimated Native Population	397

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	28.6%	57.1%
Hunted	28.6%	28.6%
Harvested	14.3%	28.6%
Received	14.3%	42.9%
Gave Away	14.3%	28.6%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	11.4	28.6
Total Number Struck and Lost	11.4	8.6
Total Number Taken	22.9	37.1
Number Harvested Per Capita	0.03	0.07

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	0	0	0	0	0	0	2	1	0	0	0	4
Struck & Lost	0	0	0	0	0	0	1	0	0	0	0	0	3	4
Total Take	1	0	0	0	0	0	1	0	2	1	0	0	3	8
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	2.9	0.0	0.0	0.0	11.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	8.6	11.4
Total Take	2.9	0.0	0.0	0.0	0.0	0.0	2.9	0.0	5.7	2.9	0.0	0.0	8.6	22.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	2.9	0.0	0.0		11.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0	0.0	0.0	0.0	0.0		11.4
Total Take	2.9	0.0	0.0	0.0	0.0	0.0	11.4	0.0	5.7	2.9	0.0	0.0		22.9
Total Take (%)	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	25.0%	12.5%	0.0%	0.0%		100.0%
Cum. Take	2.9	2.9	2.9	2.9	2.9	2.9	14.3	14.3	20.0	22.9	22.9	22.9		
Cum. Take (%)	12.5%	12.5%	12.5%	12.5%	12.5%	12.5%	62.5%	62.5%	87.5%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	1	3	0	0	0	5	1	0	10
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Total Take	0	0	0	0	0	1	3	0	0	0	5	4	0	13
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	2.9	8.6	0.0	0.0	0.0	14.3	2.9	0.0	28.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	8.6
Total Take	0.0	0.0	0.0	0.0	0.0	2.9	8.6	0.0	0.0	0.0	14.3	11.4	0.0	37.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	2.9	8.6	0.0	0.0	0.0	14.3	2.9		28.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6		8.6
Total Take	0.0	0.0	0.0	0.0	0.0	2.9	8.6	0.0	0.0	0.0	14.3	11.4		37.1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	7.7%	23.1%	0.0%	0.0%	0.0%	38.5%	30.8%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	2.9	11.4	11.4	11.4	11.4	25.7	37.1		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	7.7%	30.8%	30.8%	30.8%	30.8%	69.2%	100.0%		

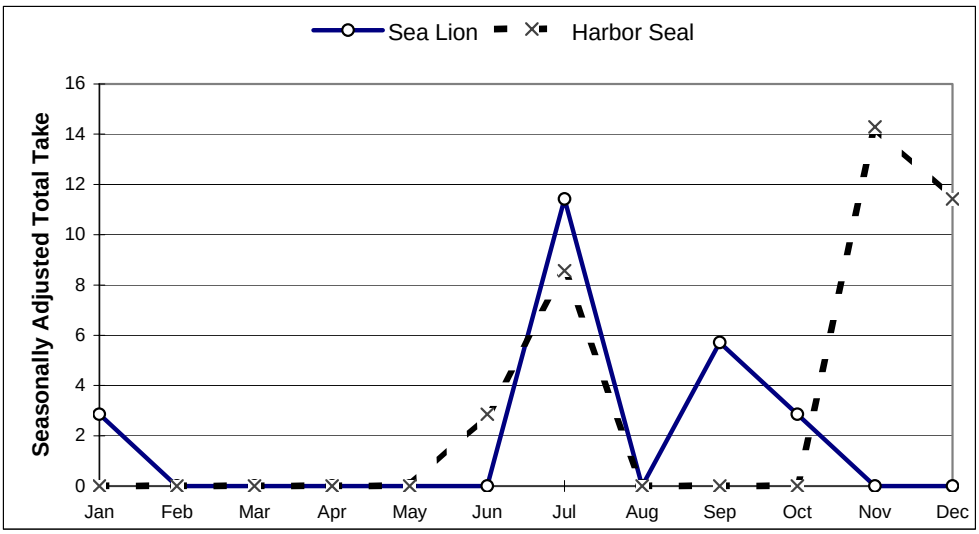
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qawalangin Tribal Council, 2005.

Table 48. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Unalaska, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	2	20.0%	5.7	20.0%
Adult Female	1	25.0%	2.9	25.0%	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	1	25.0%	2.9	25.0%	0	0.0%	0.0	0.0%
Juvenile Female	1	25.0%	2.9	25.0%	3	30.0%	8.6	30.0%
Juvenile Unknown Sex	1	25.0%	2.9	25.0%	3	30.0%	8.6	30.0%
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%	1	10.0%	2.9	10.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	1	10.0%	2.9	10.0%
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	4	100.0%	11.4	100.0%	10	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

Year	Harvest	Struck/ Lost	Total Take
1992	41.8	16.7	58.5
1993	53.4	15.9	69.3
1994	43.6	8.4	51.9
1995	39.0	11.1	50.1
1996	15.2	6.3	21.6
1997	29.1	1.3	30.3
1998	7.3	5.5	12.7
2000	49.2	3.4	52.6
2001	23.1	5.3	28.4
2002	10.0	5.7	15.7
2003	10.0	5.7	15.7
2004	11.4	11.4	22.9

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	47.0	3.7	50.8
1993	32.7	9.9	42.6
1994	31.4	10.5	41.8
1995	37.4	9.7	47.1
1996	20.3	5.1	25.4
1997	26.5	0.0	26.5
1998	12.7	0.0	12.7
2000	34.3	5.1	39.4
2001	37.8	3.2	41.0
2002	14.3	1.4	15.7
2003	14.3	1.4	15.7
2004	28.6	8.6	37.1

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qawalangin Tribal Council, 2005.

Table 49. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: St. George, 2004

SAMPLING DESIGN:
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:

	Sea Lion	Harbor Seal
Used	100.0%	0.0%
Hunted	100.0%	0.0%
Harvested	100.0%	0.0%
Received	66.7%	0.0%
Gave Away	100.0%	0.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	9.3	0.0
Total Number Struck and Lost	4.7	0.0
Total Number Taken	14.0	0.0
Number Harvested Per Capita	0.07	0.00

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
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 HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
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 SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
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 SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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 (%)	---	---	---	---	---	---	---	---	---	---	---	---		

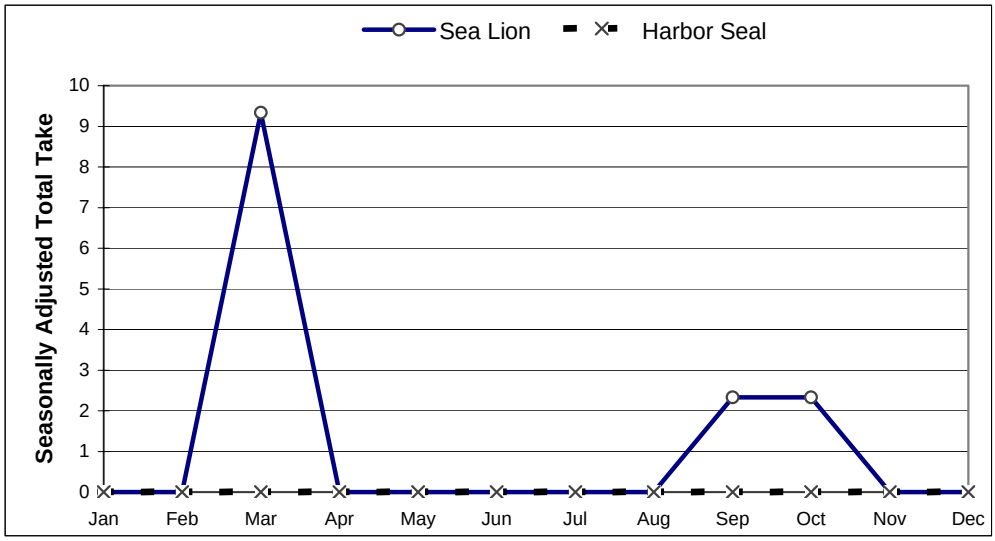
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, 2003.(Numbers based on 2003 Survey Estimates)

Table 49. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: St. George, 2003

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	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				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, 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 50. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: St. Paul, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	N/A
Surveyed Households	N/A
Sampling Fraction	N/A
Sample Household Members	N/A
Estimated Household Members	N/A
2000 U.S. Census Estimated Native Population	460

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	N/A	N/A
Hunted	N/A	N/A
Harvested	N/A	N/A
Received	N/A	N/A
Gave Away	N/A	N/A

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	13.0	N/A
Total Number Struck and Lost	5.0	N/A
Total Number Taken	18.0	N/A
Number Harvested Per Capita	0.03	N/A

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	4	1	1	2	0	0	0	0	1	4	0	0	13
Struck & Lost	0	4	1	0	0	0	0	0	0	0	0	0	0	5
Total Take	0	8	2	1	2	0	0	0	0	1	4	0	0	18
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	4.0	1.0	1.0	2.0	0.0	0.0	0.0	0.0	1.0	4.0	0.0	0.0	13.0
Struck & Lost	0.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
Total Take	0.0	8.0	2.0	1.0	2.0	0.0	0.0	0.0	0.0	1.0	4.0	0.0	0.0	18.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	4.0	1.0	1.0	2.0	0.0	0.0	0.0	0.0	1.0	4.0	0.0		13.0
Struck & Lost	0.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		5.0
Total Take	0.0	8.0	2.0	1.0	2.0	0.0	0.0	0.0	0.0	1.0	4.0	0.0		18.0
Total Take (%)	0.0%	44.4%	11.1%	5.6%	11.1%	0.0%	0.0%	0.0%	0.0%	5.6%	22.2%	0.0%		100.0%
Cum. Take	0.0	8.0	10.0	11.0	13.0	13.0	13.0	13.0	13.0	14.0	18.0	18.0		
Cum. Take (%)	0.0%	44.4%	55.6%	61.1%	72.2%	72.2%	72.2%	72.2%	72.2%	77.8%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
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 HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
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 SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
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 (%)														

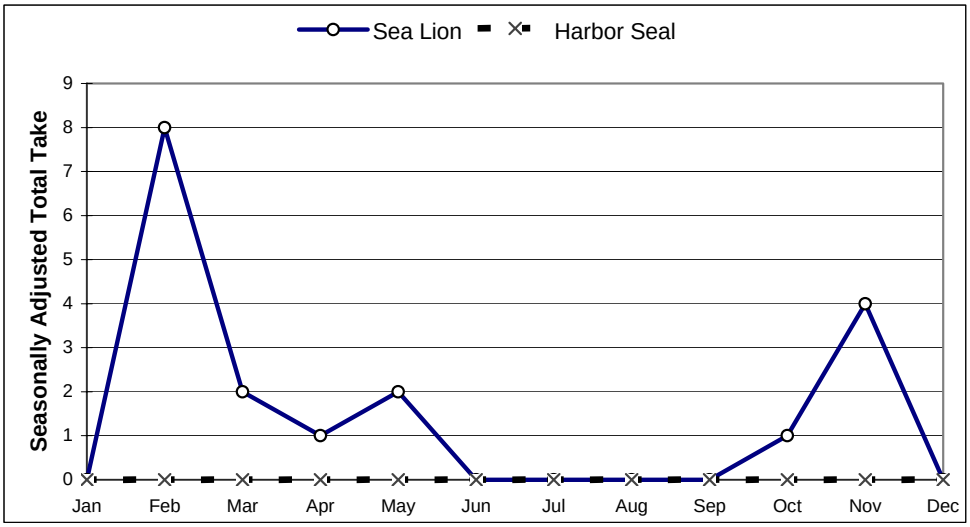
SOURCE: The 2004 estimates are interim estimates based on 2003 data in Lestenkof A. D., Zavadil, P.A., and Williams, M.T. 2004. The subsistence harvest of Steller sea lions on St. Paul Island in 2004. St. Paul Island, Pribilof Islands, Alaska.

Table 50. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: St. Paul, 2003

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	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	13	100.0%	13.0	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	13	100.0%	13.0	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				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total 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	13.0	5.0	18.0	2004	N/A	N/A	N/A

Sources for 2001 and 2002 data: Lestenkof A. D., Zavadil, P.A., and Williams, M.T. 2002. The subsistence harvest of Steller sea lions on St. Paul Island in 20
St. Paul Island, Pribilof Islands, Alaska. Source for 2000 historic sea lion data: Lestenkof, A.D. and Zavadil, P.A. 2002. 1999-2000 Steller Sea Lion Subsis-
tence hunting report. Aleut Community of St. Paul Island, Tribal Government, Ecosystem Conservation Office. St. Paul Island, Pribilof Islands, Alaska.
Source for 2003 data: Lestenkof A. D., Zavadil, P.A., and Williams, M.T. 2004. The subsistence harvest of Steller sea lions on St. Paul Island in 2004.
The 2004 estimates in this table are interim estimates based on 2003 harvest data from Zavadil et al. 2004.

Table 51. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Egegik, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Native Households	29
Surveyed Households	28
Sampling Fraction	96.6%
Sample Household Members	57
Estimated Household Members	59.0
2000 U.S. Census Estimated Native Population	89

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	3.6%
Hunted	0.0%	3.6%
Harvested	0.0%	3.6%
Received	0.0%	0.0%
Gave Away	0.0%	0.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	1.0
Total Number Struck and Lost	0.0	1.0
Total Number Taken	0.0	2.1
Number Harvested Per Capita	0.00	0.01

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Struck & Lost	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total Take	0	0	0	0	0	0	0	2	0	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	2.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	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
Struck & Lost	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0		2.1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

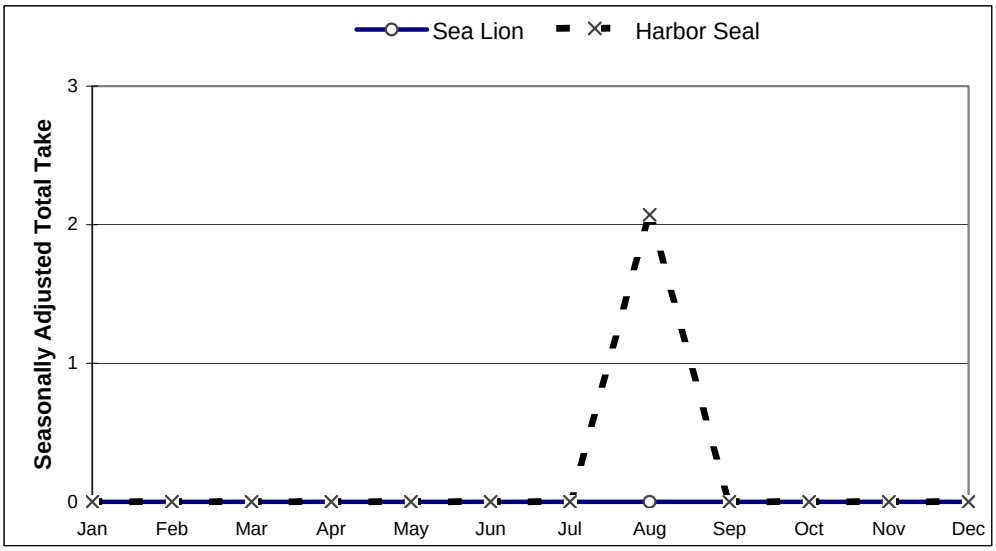
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Egegik Traditional Council, 2005.

Table 51. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Egegik, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	1	100.0%	1.0	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	---	1	100.0%	1.0	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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	1.0	1.0	2.1

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Egegik Traditional Council, 2005.

Table 52. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: King Salmon, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Native Households	20
Surveyed Households	12
Sampling Fraction	60.0%
Sample Household Members	45
Estimated Household Members	75.0
2000 U.S. Census Estimated Native Population	133

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	33.3%
Hunted	0.0%	25.0%
Harvested	0.0%	16.7%
Received	0.0%	25.0%
Gave Away	0.0%	16.7%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	5.0
Total Number Struck and Lost	0.0	3.3
Total Number Taken	0.0	8.3
Number Harvested Per Capita	0.00	0.04

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	2	0	0	0	1	0	0	0	0	3
Struck & Lost	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Total Take	0	0	0	0	2	2	0	0	1	0	0	0	0	5
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	5.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
Total Take	0.0	0.0	0.0	0.0	3.3	3.3	0.0	0.0	1.7	0.0	0.0	0.0	0.0	8.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	1.7	0.0	0.0	0.0		5.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0		3.3
Total Take	0.0	0.0	0.0	0.0	3.3	3.3	0.0	0.0	1.7	0.0	0.0	0.0		8.3
Total Take (%)	0.0%	0.0%	0.0%	0.0%	40.0%	40.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	3.3	6.7	6.7	6.7	8.3	8.3	8.3	8.3		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	40.0%	80.0%	80.0%	80.0%	100.0%	100.0%	100.0%	100.0%		

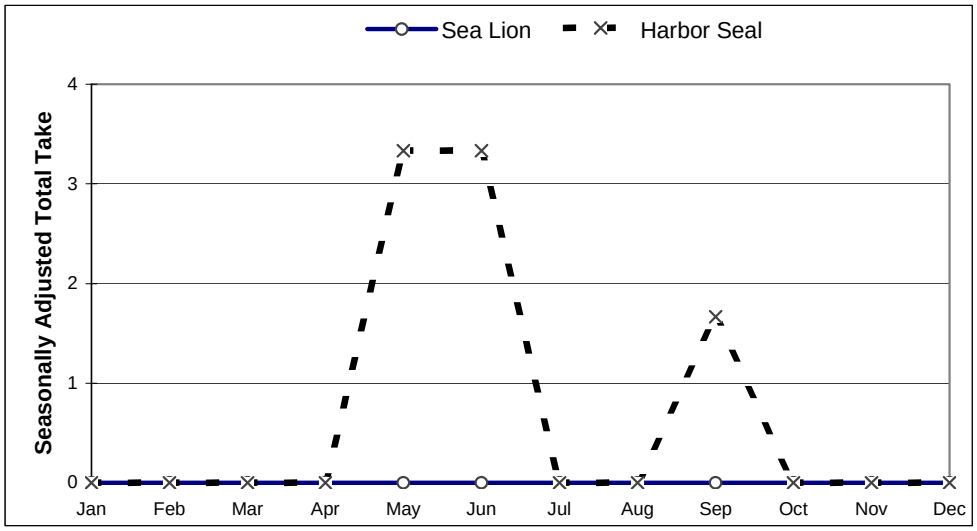
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the King Salmon Traditional Council, 2005.

Table 52. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: King Salmon, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	3	100.0%	5.0	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	---	3	100.0%	5.0	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the King Salmon Traditional Council, 2005.

Table 53. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Levelock, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Native Households	22
Surveyed Households	13
Sampling Fraction	59.1%
Sample Household Members	33
Estimated Household Members	55.8
2000 U.S. Census Estimated Native Population	116

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	61.5%
Hunted	0.0%	7.7%
Harvested	0.0%	0.0%
Received	0.0%	61.5%
Gave Away	0.0%	61.5%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	0.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	0.0
Number Harvested Per Capita	0.00	0.00

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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 (%)	---	---	---	---	---	---	---	---	---	---	---	---		

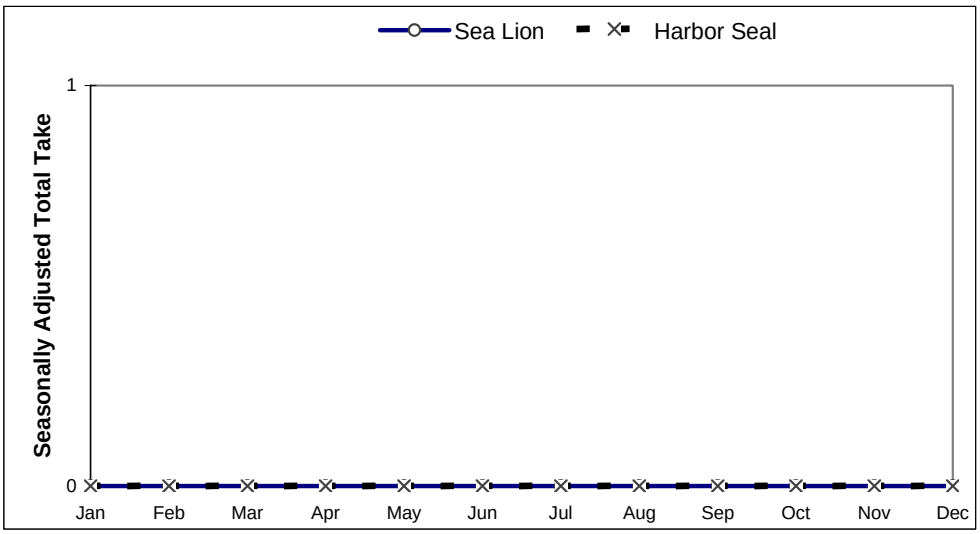
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Levelock Traditional Council, 2005.

Table 53. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Levelock, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (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				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Levelock Traditional Council, 2005.

Table 54. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Naknek, 2004

SAMPLING DESIGN:		Active	Other	Total
TWO-STRATA	Total Referred Households	14	25	39
	Surveyed Households	11	12	23
	Sampling Fraction	78.6%	48.0%	59.0%
	Sample Household Members	26	39	65
	Estimated Household Members	33.1	81.3	114.3
	2000 U.S. Census Estimated Native Population	---	---	319

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	39.8%
Hunted	0.0%	17.2%
Harvested	0.0%	13.9%
Received	0.0%	31.2%
Gave Away	0.0%	17.2%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	15.2
Total Number Struck and Lost	0.0	3.8
Total Number Taken	0.0	19.0
Number Harvested Per Capita	0.00	0.05

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	5	5	0	0	0	0	0	10
Struck & Lost	0	0	0	0	1	0	2	0	0	0	0	0	0	3
Total Take	0	0	0	0	1	0	7	5	0	0	0	0	0	13
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	8.0	7.2	0.0	0.0	0.0	0.0	0.0	15.2
Struck & Lost	0.0	0.0	0.0	0.0	1.3	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	3.8
Total Take	0.0	0.0	0.0	0.0	1.3	0.0	10.5	7.2	0.0	0.0	0.0	0.0	0.0	19.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	8.0	7.2	0.0	0.0	0.0	0.0		15.2
Struck & Lost	0.0	0.0	0.0	0.0	1.3	0.0	2.5	0.0	0.0	0.0	0.0	0.0		3.8
Total Take	0.0	0.0	0.0	0.0	1.3	0.0	10.5	7.2	0.0	0.0	0.0	0.0		19.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	55.5%	37.8%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	1.3	1.3	11.8	19.0	19.0	19.0	19.0	19.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	6.7%	6.7%	62.2%	100.0%	100.0%	100.0%	100.0%	100.0%		

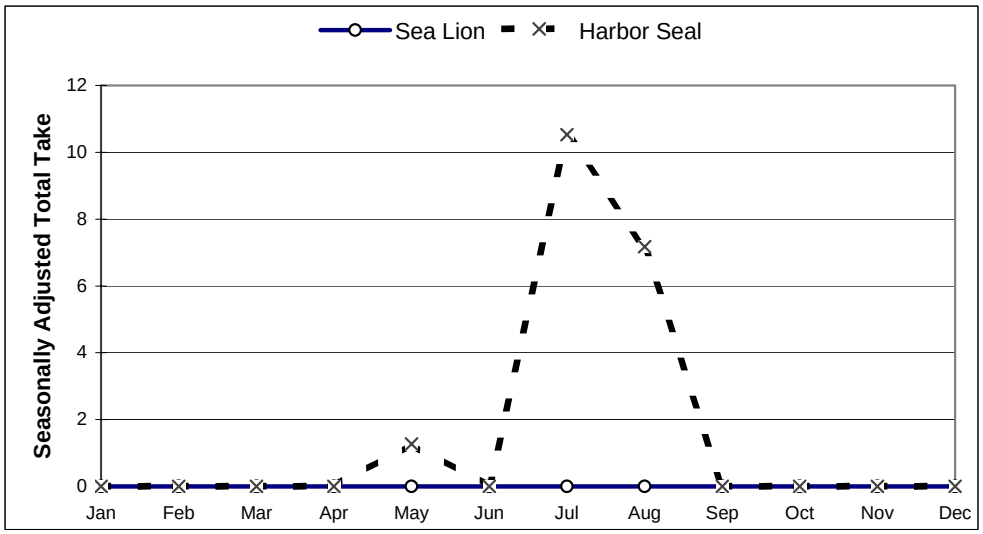
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Naknek Traditional Council, 2005.

Table 54. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Naknek, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	6	60.0%	9.3	61.1%
Adult Female	0	---	0.0	---	3	30.0%	3.8	25.2%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	1	10.0%	2.1	13.7%
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	---	10	100.0%	15.2	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Naknek Traditional Council, 2005.

Table 55. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Pilot Point, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	13
Surveyed Households	7
Sampling Fraction	53.8%
Sample Household Members	15
Estimated Household Members	27.9
2000 U.S. Census Estimated Native Population	86

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	71.4%
Hunted	0.0%	42.9%
Harvested	0.0%	14.3%
Received	0.0%	57.1%
Gave Away	0.0%	14.3%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	1.9
Total Number Struck and Lost	0.0	5.6
Total Number Taken	0.0	7.4
Number Harvested Per Capita	0.00	0.02

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Struck & Lost	0	0	0	0	0	0	3	0	0	0	0	0	0	3
Total Take	0	0	0	0	0	1	3	0	0	0	0	0	0	4
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	5.6
Total Take	0.0	0.0	0.0	0.0	0.0	1.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	7.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0		1.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0		5.6
Total Take	0.0	0.0	0.0	0.0	0.0	1.9	5.6	0.0	0.0	0.0	0.0	0.0		7.4
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	75.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	1.9	7.4	7.4	7.4	7.4	7.4	7.4		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

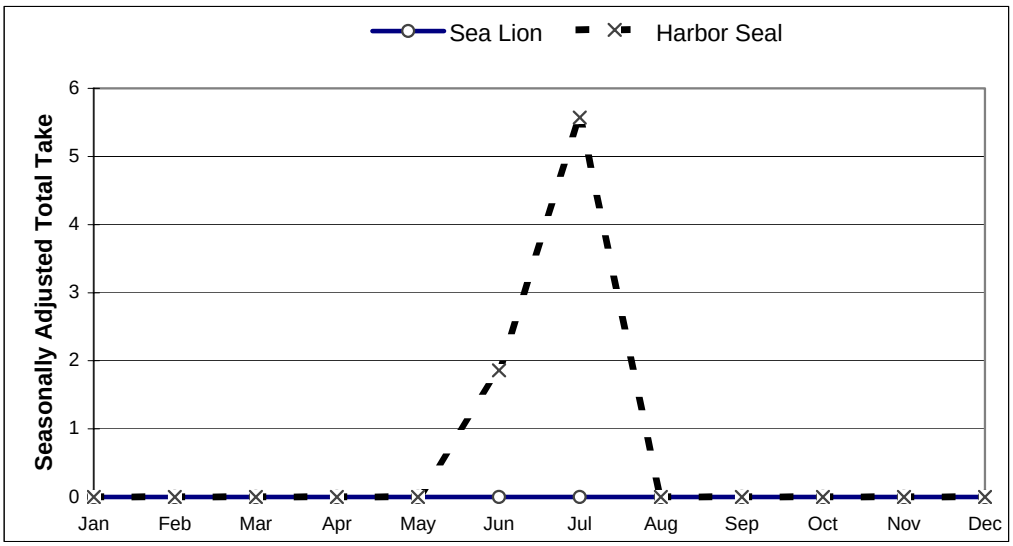
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Pilot Point Traditional Council, 2005.

Table 55. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Pilot Point, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (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	---	1	100.0%	1.9	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	---	1	100.0%	1.9	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Pilot Point Traditional Council, 2005.

Table 56. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Port Heiden, 2004

SAMPLING DESIGN:
CHAIN REFERRAL

Total Native Households	26
Surveyed Households	26
Sampling Fraction	100.0%
Sample Household Members	72
Estimated Household Members	72.0
2000 U.S. Census Estimated Native Population	93

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	61.5%
Hunted	0.0%	57.7%
Harvested	0.0%	38.5%
Received	0.0%	34.6%
Gave Away	0.0%	34.6%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	20.0
Total Number Struck and Lost	0.0	13.0
Total Number Taken	0.0	33.0
Number Harvested Per Capita	0.00	0.22

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	0	1	3	6	4	3	1	1	0	0	0	20
Struck & Lost	1	0	0	0	0	2	8	1	1	0	0	0	0	13
Total Take	2	0	0	1	3	8	12	4	2	1	0	0	0	33
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	0.0	0.0	1.0	3.0	6.0	4.0	3.0	1.0	1.0	0.0	0.0	0.0	20.0
Struck & Lost	1.0	0.0	0.0	0.0	0.0	2.0	8.0	1.0	1.0	0.0	0.0	0.0	0.0	13.0
Total Take	2.0	0.0	0.0	1.0	3.0	8.0	12.0	4.0	2.0	1.0	0.0	0.0	0.0	33.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	0.0	0.0	1.0	3.0	6.0	4.0	3.0	1.0	1.0	0.0	0.0		20.0
Struck & Lost	1.0	0.0	0.0	0.0	0.0	2.0	8.0	1.0	1.0	0.0	0.0	0.0		13.0
Total Take	2.0	0.0	0.0	1.0	3.0	8.0	12.0	4.0	2.0	1.0	0.0	0.0		33.0
Total Take (%)	6.1%	0.0%	0.0%	3.0%	9.1%	24.2%	36.4%	12.1%	6.1%	3.0%	0.0%	0.0%		100.0%
Cum. Take	2.0	2.0	2.0	3.0	6.0	14.0	26.0	30.0	32.0	33.0	33.0	33.0		
Cum. Take (%)	6.1%	6.1%	6.1%	9.1%	18.2%	42.4%	78.8%	90.9%	97.0%	100.0%	100.0%	100.0%		

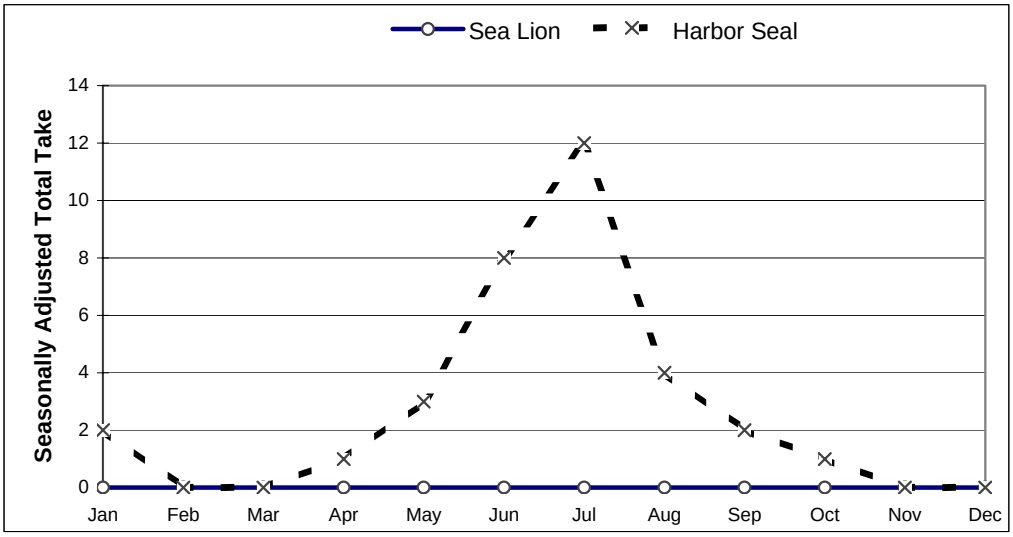
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Heiden Traditional Council, 2005.

Table 56. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Heiden, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (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	---	12	60.0%	12.0	60.0%
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	---	3	15.0%	3.0	15.0%
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	---	5	25.0%	5.0	25.0%
Total	0	---	0.0	---	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				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Heiden Traditional Council, 2005.

Table 57. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: South Naknek, 2004

SAMPLING DESIGN:
CENSUS

Total Native Households	22
Surveyed Households	20
Sampling Fraction	90.9%
Sample Household Members	49
Estimated Household Members	53.9
2000 U.S. Census Estimated Native Population	115

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	30.0%
Hunted	0.0%	20.0%
Harvested	0.0%	20.0%
Received	0.0%	20.0%
Gave Away	0.0%	15.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	15.4
Total Number Struck and Lost	0.0	4.4
Total Number Taken	0.0	19.8
Number Harvested Per Capita	0.00	0.13

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	3	3	0	0	5	2	0	1	0	0	14
Struck & Lost	0	0	0	0	0	0	0	2	2	0	0	0	0	4
Total Take	0	0	0	3	3	0	0	7	4	0	1	0	0	18
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	3.3	3.3	0.0	0.0	5.5	2.2	0.0	1.1	0.0	0.0	15.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	0.0	0.0	0.0	0.0	4.4
Total Take	0.0	0.0	0.0	3.3	3.3	0.0	0.0	7.7	4.4	0.0	1.1	0.0	0.0	19.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	3.3	3.3	0.0	0.0	5.5	2.2	0.0	1.1	0.0		15.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	0.0	0.0	0.0		4.4
Total Take	0.0	0.0	0.0	3.3	3.3	0.0	0.0	7.7	4.4	0.0	1.1	0.0		19.8
Total Take (%)	0.0%	0.0%	0.0%	16.7%	16.7%	0.0%	0.0%	38.9%	22.2%	0.0%	5.6%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	3.3	6.6	6.6	6.6	14.3	18.7	18.7	19.8	19.8		
Cum. Take (%)	0.0%	0.0%	0.0%	16.7%	33.3%	33.3%	33.3%	72.2%	94.4%	94.4%	100.0%	100.0%		

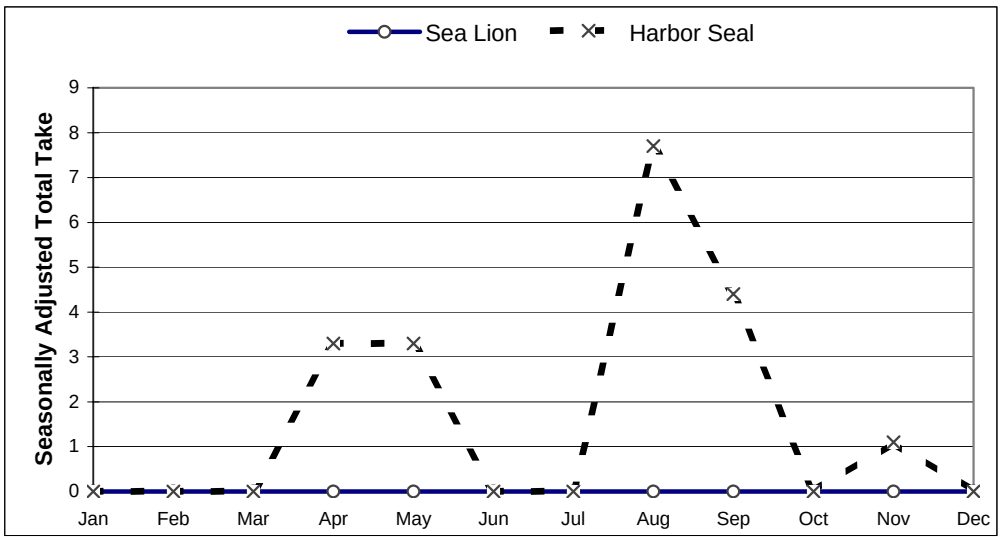
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the South Naknek Traditional Council, 2005.

Table 57. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: South Naknek, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	9	64.3%	9.9	64.3%
Adult Female	0	---	0.0	---	5	35.7%	5.5	35.7%
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	---	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	---	14	100.0%	15.4	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the South Naknek Traditional Council, 2005.

Table 58. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Aleknagik, 2004

SAMPLING DESIGN:		Total
CENSUS	Total Native Households	43
	Surveyed Households	28
	Sampling Fraction	65.1%
	Sample Household Members	96
	Estimated Household Members	148.1
	2000 U.S. Census Estimated Native Population	187

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal and Spotted Seal
Used	0.0%	92.9%
Hunted	0.0%	32.1%
Harvested	0.0%	7.1%
Received	0.0%	85.7%
Gave Away	0.0%	14.3%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal	Spotted Seal
Total Number Harvested	0.0	0.0	4.6
Total Number Struck and Lost	0.0	0.0	1.5
Total Number Taken	0.0	0.0	6.1
Number Harvested Per Capita	0.00	0.00	0.02

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Spotted 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	2	1	0	0	0	0	0	0	0	0	3
Struck & Lost	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Total Take	0	0	0	2	1	0	0	0	0	0	1	0	0	4
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	1.5
Total Take	0.0	0.0	0.0	3.1	1.5	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	6.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0		4.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0		1.5
Total Take	0.0	0.0	0.0	3.1	1.5	0.0	0.0	0.0	0.0	0.0	1.5	0.0		6.1
Total Take (%)	0.0%	0.0%	0.0%	50.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	3.1	4.6	4.6	4.6	4.6	4.6	4.6	6.1	6.1		
Cum. Take (%)	0.0%	0.0%	0.0%	50.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	100.0%	100.0%		

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council, 2005.

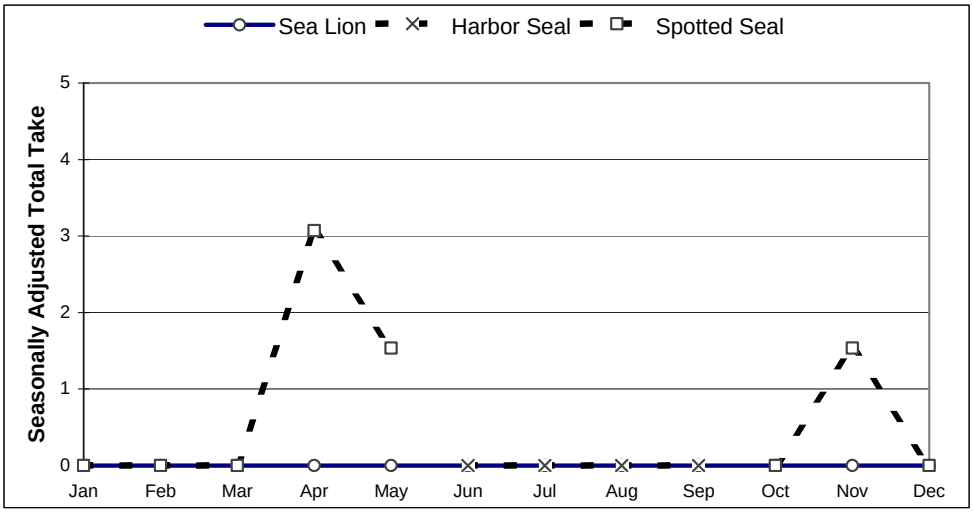
Table 58. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Aleknagik, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal				Spotted Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample*		Community Est. (Expanded)		Reported by Sample*		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	0	---	0.0	---	1	33.3%	1.5	33.3%
Adult Female	0	---	0.0	---	0	---	0.0	---	1	33.3%	1.5	33.3%
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---	1	33.3%	1.5	33.3%
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	---	0	0.0%	0.0	0.0%
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	0.0%
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	0	---	0.0	---	0	---	0.0	---	3	100.0%	4.6	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Aleknagik Tribal Council, 2005.

Table 59. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Clark's Point, 2004

SAMPLING DESIGN:		Total
CHAIN REFERRAL	Total Native Households	21
	Surveyed Households	7
	Sampling Fraction	33.3%
	Sample Household Members	20
	Estimated Household Members	60.0
	2000 U.S. Census Estimated Native Population	69

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal and Spotted Seal
Used	0.0%	100.0%
Hunted	0.0%	100.0%
Harvested	0.0%	57.1%
Received	0.0%	57.1%
Gave Away	0.0%	100.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal	Spotted Seal
Total Number Harvested	0.0	0.0	27.0
Total Number Struck and Lost	0.0	0.0	15.0
Total Number Taken	0.0	0.0	42.0
Number Harvested Per Capita	0.00	0.00	0.39

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Spotted 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	3	4	2	0	0	0	0	0	0	0	0	9
Struck & Lost	0	0	0	1	1	0	0	0	0	0	0	0	3	5
Total Take	0	0	3	5	3	0	0	0	0	0	0	0	3	14
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	9.0	12.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.0
Struck & Lost	0.0	0.0	0.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	15.0
Total Take	0.0	0.0	9.0	15.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	42.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	9.0	12.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		27.0
Struck & Lost	0.0	0.0	0.0	7.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0		15.0
Total Take	0.0	0.0	9.0	19.5	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0		42.0
Total Take (%)	0.0%	0.0%	21.4%	46.4%	32.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	9.0	28.5	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0		
Cum. Take (%)	0.0%	0.0%	21.4%	67.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 2005.

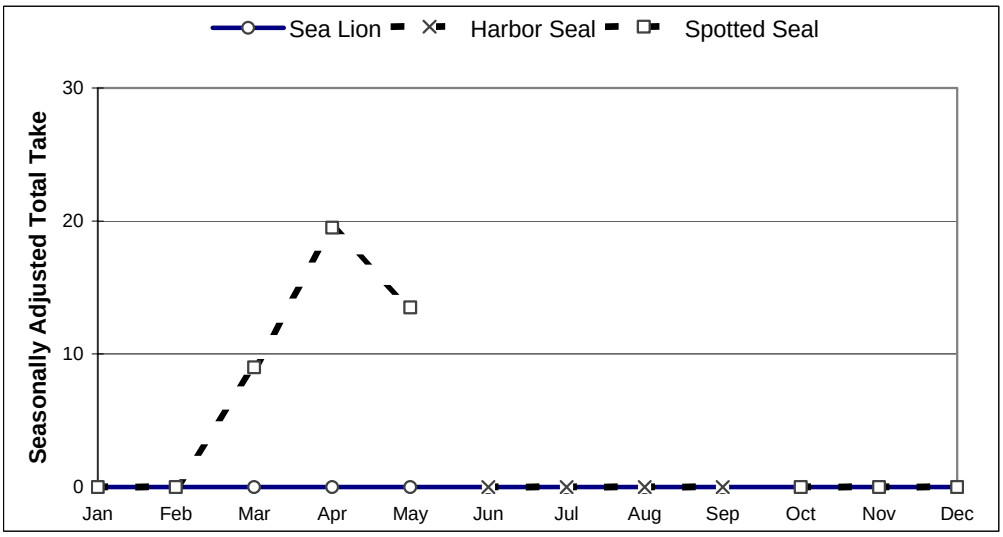
Table 59. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Clark's Point, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal				Spotted Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample*		Community Est. (Expanded)		Reported by Sample*		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adult Male	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%
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---	7	77.8%	21.0	77.8%
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	---	2	22.2%	6.0	22.2%
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	0.0%
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	0	---	0.0	---	0	---	0.0	---	9	100.0%	27.0	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	0.0	0.0	0.0	1992	10.6	8.5	19.1
1993	0.0	0.0	0.0	1993	0.0	0.0	0.0	1993	2.0	0.0	2.0
1994	0.0	0.0	0.0	1994	0.0	0.0	0.0	1994	2.0	0.0	2.0
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0	1995	10.0	5.0	15.0
1996	0.0	0.0	0.0	1996	0.0	0.0	0.0	1996	17.1	3.8	20.9
1997	0.0	0.0	0.0	1997	1.3	0.0	1.3	1997	3.8	1.3	5.0
1998	0.0	0.0	0.0	1998	1.3	0.0	1.3	1998	3.8	1.3	5.0
2000	0.0	0.0	0.0	2000	0.0	0.0	0.0	2000	22.4	1.4	23.8
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0	2001	28.2	11.5	39.7
2002	0.0	0.0	0.0	2002	0.0	0.0	0.0	2002	81.0	13.3	94.3
2003	0.0	0.0	0.0	2003	0.0	0.0	0.0	2003	2.0	0.0	2.0
2004	0.0	0.0	0.0	2004	0.0	0.0	0.0	2004	27.0	15.0	42.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Clark's Point Traditional Council, 2005.

Table 60. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Dillingham, 2004

SAMPLING DESIGN:		Active	Other	Total
TWO-STRATA	Total Native Households	24	74	98
	Surveyed Households	13	24	37
	Sampling Fraction	54.2%	32.4%	37.8%
	Sample Household Members	39	72	111
	Estimated Household Members	72.0	222.0	294.0
	2000 U.S. Census Estimated Native Population	---	---	1503

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal and Spotted Seal
Used	0.0%	93.7%
Hunted	0.0%	1.9%
Harvested	0.0%	0.0%
Received	0.0%	93.7%
Gave Away	0.0%	59.8%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal	Spotted Seal
Total Number Harvested	0.0	0.0	0.0
Total Number Struck and Lost	0.0	0.0	0.0
Total Number Taken	0.0	0.0	0.0
Number Harvested Per Capita	0.00	0.00	0.00

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Spotted 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	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)														
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	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, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 2005.

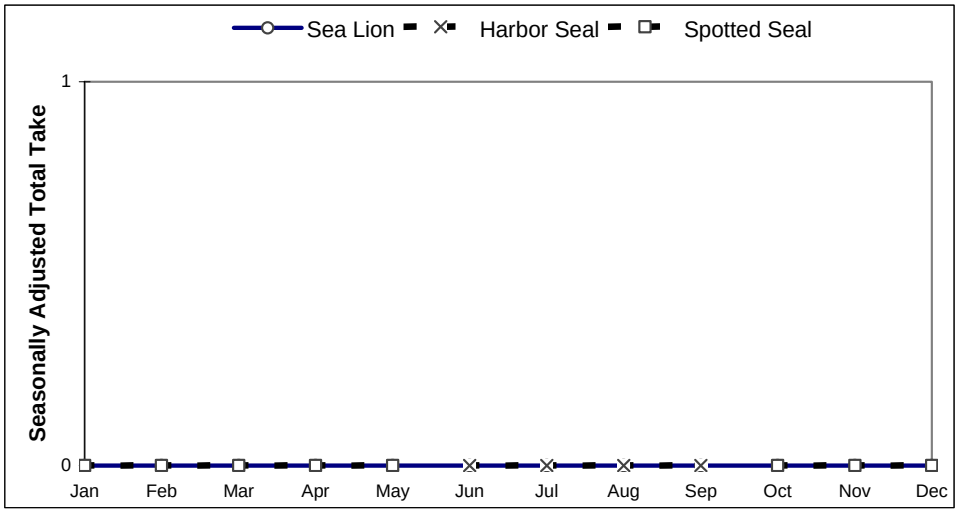
Table 60. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Dillingham, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal				Spotted Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample*		Community Est. (Expanded)		Reported by Sample*		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Adult Female	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Juvenile Male	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Juvenile Female	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Pup Male	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Pup Female	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Male Unknown Age	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Female Unknown Age	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Total	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---

* 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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	29.2	3.8	32.9	1992	49.6	3.8	53.3
1993	0.0	0.0	0.0	1993	18.0	4.2	22.2	1993	26.1	0.0	26.1
1994	0.0	0.0	0.0	1994	16.2	0.0	16.2	1994	35.2	3.0	38.2
1995	0.0	0.0	0.0	1995	13.3	0.0	13.3	1995	7.5	7.5	15.0
1996	0.0	0.0	0.0	1996	0.0	0.0	0.0	1996	40.6	1.0	41.6
1997	0.0	0.0	0.0	1997	1.2	0.0	1.2	1997	18.0	0.0	18.0
1998	0.0	0.0	0.0	1998	8.5	0.0	8.5	1998	12.2	1.2	13.4
2000	0.0	0.0	0.0	2000	0.0	0.0	0.0	2000	11.9	3.6	15.5
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0	2001	6.1	3.6	9.7
2002	0.0	0.0	0.0	2002	0.0	0.0	0.0	2002	7.7	0.0	7.7
2003	0.0	0.0	0.0	2003	0.0	0.0	0.0	2003	4.1	0.0	4.1
2004	0.0	0.0	0.0	2004	0.0	0.0	0.0	2004	0.0	0.0	0.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Dillingham Traditional Council, 2005.

Table 61. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Manokotak, 2004

SAMPLING DESIGN:		Active	Other	Total
TWO-STRATA	Total Native Households	36	61	97
	Surveyed Households	33	48	81
	Sampling Fraction	91.7%	78.7%	83.5%
	Sample Household Members	155	229	384
	Estimated Household Members	169.1	291.2	460.3
	2000 U.S. Census Estimated Native Population	---	---	378

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal and Spotted Seal
Used	0.0%	77.2%
Hunted	0.0%	21.2%
Harvested	0.0%	14.8%
Received	0.0%	63.7%
Gave Away	0.0%	32.4%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal	Spotted Seal
Total Number Harvested	0.0	4.0	27.1
Total Number Struck and Lost	0.0	0.0	29.6
Total Number Taken	0.0	4.0	56.7
Number Harvested Per Capita	0.00	0.01	0.07

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Spotted 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	4	1	6	8	1	0	0	2	0	0	2	2	26
Struck & Lost	0	1	0	3	1	0	0	0	0	0	0	0	19	24
Total Take	0	5	1	9	9	1	0	0	2	0	0	2	21	50
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	5.1	1.1	6.7	9.8	1.1	0.0	0.0	2.5	0.0	0.0	2.2	2.5	31.1
Struck & Lost	0.0	1.1	0.0	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.1	29.6
Total Take	0.0	6.2	1.1	10.0	10.9	1.1	0.0	0.0	2.5	0.0	0.0	2.2	26.7	60.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	5.5	1.2	7.3	10.7	1.2	0.0	0.0	2.8	0.0	0.0	2.4		31.1
Struck & Lost	0.0	5.9	0.0	17.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0		29.6
Total Take	0.0	11.5	1.2	25.1	16.6	1.2	0.0	0.0	2.8	0.0	0.0	2.4		60.7
Total Take (%)	0.0%	18.9%	2.0%	41.4%	27.4%	2.0%	0.0%	0.0%	4.6%	0.0%	0.0%	3.9%		100.0%
Cum. Take	0.0	11.5	12.6	37.7	54.3	55.5	55.5	55.5	58.3	58.3	58.3	60.7		
Cum. Take (%)	0.0%	18.9%	20.8%	62.2%	89.6%	91.5%	91.5%	91.5%	96.1%	96.1%	96.1%	100.0%		

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council, 2005.

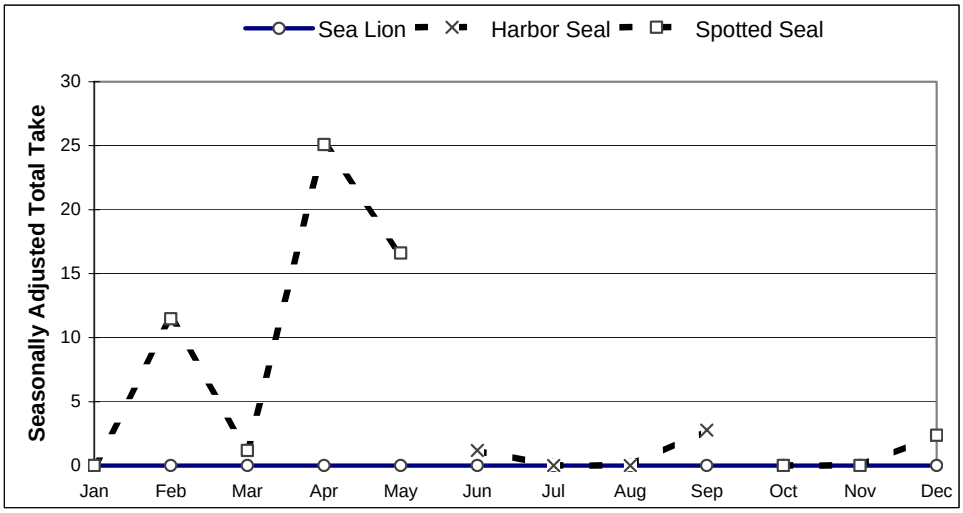
Table 61. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Manokotak, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal				Spotted Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample*		Community Est. (Expanded)		Reported by Sample*		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	0	0.0%	0.0	0.0%	4	19.0%	4.4	16.1%
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	---	2	66.7%	2.5	65.3%	7	33.3%	8.4	30.8%
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%	2	9.5%	2.5	9.4%
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	0.0%
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	33.3%	1.3	34.7%	8	38.1%	11.9	43.8%
Total	0	---	0.0	---	3	100.0%	3.9	100.0%	21	100.0%	27.2	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	3.9	0.0	3.9	1992	4.9	3.8	8.7	1992	25.1	1.0	26.1
1993	0.0	0.0	0.0	1993	3.2	0.0	3.2	1993	7.4	0.0	7.4
1994	0.0	0.0	0.0	1994	0.0	0.0	0.0	1994	13.7	0.0	13.7
1995	0.0	0.0	0.0	1995	9.3	2.4	11.7	1995	22.9	3.6	26.5
1996	0.0	0.0	0.0	1996	2.4	3.6	6.0	1996	31.5	8.4	39.9
1997	0.0	0.0	0.0	1997	0.0	0.0	0.0	1997	19.7	7.2	26.9
1998	0.0	0.0	0.0	1998	4.0	0.0	4.0	1998	4.2	1.0	5.2
2000	0.0	0.0	0.0	2000	1.2	0.0	1.2	2000	23.0	4.7	27.7
2001	0.0	0.0	0.0	2001	3.5	0.0	3.5	2001	8.3	1.2	9.4
2002	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	2.2	0.0	2.2	2003	5.5	1.1	6.5
2004	0.0	0.0	0.0	2004	4.0	0.0	4.0	2004	27.1	29.6	56.7

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Manokotak Traditional Council, 2005.

Table 62. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Togiak, 2004

SAMPLING DESIGN:		Active	Other	Total
TWO-STRATA	Total Native Households	74	57	131
	Surveyed Households	49	34	83
	Sampling Fraction	66.2%	59.6%	63.4%
	Sample Household Members	221	118	339
	Estimated Household Members	333.8	197.8	531.6
	2000 U.S. Census Estimated Native Population	---	---	750

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal and Spotted Seal
Used	0.0%	41.7%
Hunted	0.0%	20.2%
Harvested	0.0%	19.0%
Received	0.0%	22.8%
Gave Away	0.0%	19.0%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal	Spotted Seal
Total Number Harvested	0.0	6.9	63.8
Total Number Struck and Lost	0.0	9.7	0.0
Total Number Taken	0.0	16.6	63.8
Number Harvested Per Capita	0.00	0.01	0.09

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown 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 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	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

	Spotted 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	2	1	2	6	9	0	0	0	4	8	7	5	2	46
Struck & Lost	0	0	0	0	0	0	0	0	4	0	0	0	2	6
Total Take	2	1	2	6	9	0	0	0	8	8	7	5	4	52
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.0	1.5	3.0	9.1	13.9	0.0	0.0	0.0	6.5	12.1	10.6	7.6	3.4	70.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	3.4	9.7
Total Take	3.0	1.5	3.0	9.1	13.9	0.0	0.0	0.0	12.9	12.1	10.6	7.6	6.7	80.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.2	1.6	3.2	9.5	14.6	0.0	0.0	0.0	6.9	12.7	11.1	7.9		70.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0		9.7
Total Take	3.2	1.6	3.2	9.5	14.6	0.0	0.0	0.0	16.6	12.7	11.1	7.9		80.4
Total Take (%)	3.9%	2.0%	3.9%	11.8%	18.2%	0.0%	0.0%	0.0%	20.6%	15.8%	13.8%	9.9%		100.0%
Cum. Take	3.2	4.8	7.9	17.4	32.1	32.1	32.1	32.1	48.7	61.3	72.4	80.4		
Cum. Take (%)	3.9%	5.9%	9.9%	21.7%	39.9%	39.9%	39.9%	39.9%	60.5%	76.3%	90.1%	100.0%		

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 2005.

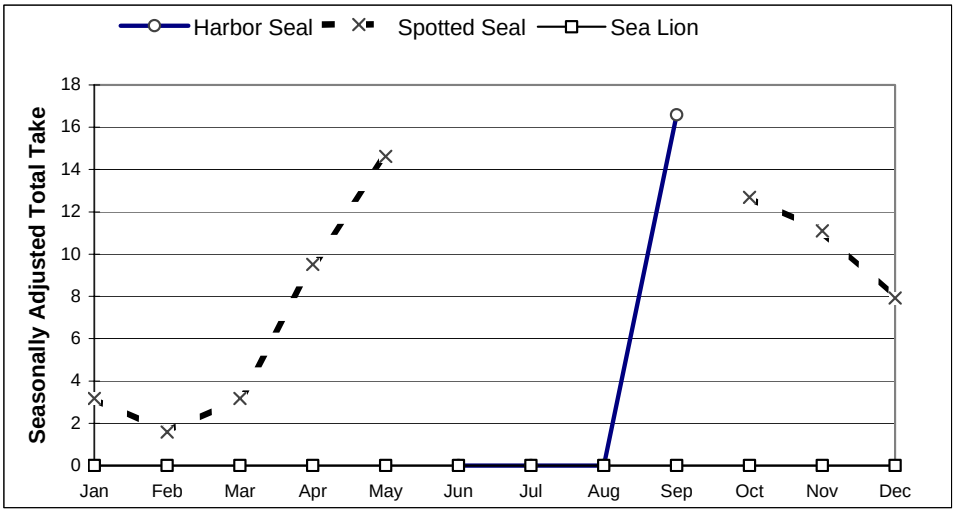
Table 62. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Togiak, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal				Spotted Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample*		Community Est. (Expanded)		Reported by Sample*		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	1	25.0%	1.7	24.4%	5	12.5%	7.6	11.8%
Adult Female	0	---	0.0	---	1	25.0%	1.7	24.4%	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	---	1	25.0%	1.7	24.4%	19	47.5%	28.7	45.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%	4	10.0%	6.0	9.5%
Juvenile Unknown Sex	0	---	0.0	---	1	25.0%	1.8	26.8%	9	22.5%	16.9	26.6%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%	3	7.5%	4.5	7.1%
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%	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	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	4	100.0%	6.9	100.0%	40	100.0%	63.8	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

Year	Harvest	Struck/ Lost	Total Take
1992	3.9	0.0	3.9
1993	3.3	3.3	6.5
1994	1.2	0.0	1.2
1995	0.0	0.0	0.0
1996	0.0	0.0	0.0
1997	3.6	0.0	3.6
1998	0.0	0.0	0.0
2000	0.0	0.0	0.0
2001	0.0	0.0	0.0
2002	0.0	0.0	0.0
2003	0.0	0.0	0.0
2004	0.0	0.0	0.0

HARBOR SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	24.3	2.0	26.3
1993	24.9	15.8	40.7
1994	0.0	0.0	0.0
1995	3.3	0.0	3.3
1996	3.9	0.0	3.9
1997	6.7	0.0	6.7
1998	14.1	1.4	15.5
2000	5.1	1.1	6.3
2001	5.3	0.0	5.3
2002	13.9	3.6	17.4
2003	22.0	0.0	22.0
2004	6.9	9.7	16.6

SPOTTED SEAL

Year	Harvest	Struck/ Lost	Total Take
1992	250.2	53.8	304.0
1993	174.7	49.1	223.8
1994	154.2	39.9	194.1
1995	111.5	4.4	115.9
1996	101.9	7.8	109.7
1997	79.2	7.1	86.4
1998	105.0	15.3	120.4
2000	147.0	26.7	173.6
2001	60.8	4.5	65.3
2002	79.2	18.6	97.9
2003	32.8	8.9	41.7
2004	63.8	0.0	63.8

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Togiak Traditional Council, 2005.

Table 63. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Twin Hills, 2004

SAMPLING DESIGN:		Total
CHAIN REFERRAL	Total Native Households	21
	Surveyed Households	18
	Sampling Fraction	85.7%
	Sample Household Members	52
	Estimated Household Members	60.7
	2000 U.S. Census Estimated Native Population	65

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal and Spotted Seal
Used	5.6%	61.1%
Hunted	5.6%	22.2%
Harvested	5.6%	22.2%
Received	0.0%	38.9%
Gave Away	5.6%	22.2%

Estimated Community Harvest and Take (Expanded):

	Sea Lion	Harbor Seal	Spotted Seal
Total Number Harvested	1.2	6.8	1.4
Total Number Struck and Lost	0.0	1.9	0.4
Total Number Taken	1.2	8.8	1.8
Number Harvested Per Capita	0.02	0.10	0.02

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	1	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	0	1	0	0	0	1
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	1.2	0.0	0.0	0.0	1.2
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	0.0	1.2	0.0	0.0	0.0	1.2
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	1.2	0.0	0.0		1.2
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	0.0	1.2	0.0	0.0		1.2
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%		

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH

	Spotted 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	0	1	0	0	3	2	0	0	0	1	7
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Total Take	0	0	0	0	1	0	0	3	2	0	0	0	3	9
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.2	0.0	0.0	3.5	2.3	0.0	0.0	0.0	1.2	8.2
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	2.3	2.3
Total Take	0.0	0.0	0.0	0.0	1.2	0.0	0.0	3.5	2.3	0.0	0.0	0.0	3.5	10.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.4	0.0	0.0	4.1	2.7	0.0	0.0	0.0		8.2
Struck & Lost	0.0	0.0	0.0	0.0	0.4	0.0	0.0	1.2	0.8	0.0	0.0	0.0		2.3
Total Take	0.0	0.0	0.0	0.0	1.8	0.0	0.0	5.3	3.5	0.0	0.0	0.0		10.5
Total Take (%)	0.0%	0.0%	0.0%	0.0%	16.7%	0.0%	0.0%	50.0%	33.3%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	1.8	1.8	1.8	7.0	10.5	10.5	10.5	10.5		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	16.7%	16.7%	16.7%	66.7%	100.0%	100.0%	100.0%	100.0%		

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Twin Hills Native Corporation, 2005.

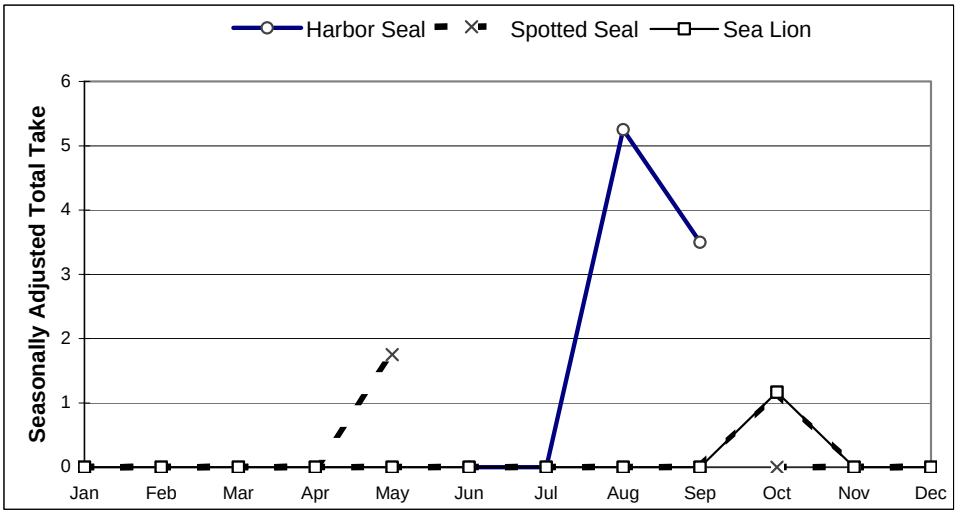
Table 63. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Twin Hills, 2004

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal				Spotted Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample*		Community Est. (Expanded)		Reported by Sample*		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	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%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	1	20.0%	1.2	18.2%	0	0.0%	0.0	0.0%
Juvenile Male	1	100.0%	1.2	100.0%	2	40.0%	2.3	36.4%	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%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	1	20.0%	1.8	27.3%	1	100.0%	1.8	100.0%
Pup Male	0	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	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	1	20.0%	1.2	18.2%	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	0.0%
Female Unknown Age	0	0.0%	0.0	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%	0.0	0.0%
Total	1	100.0%	1.2	100.0%	5	100.0%	6.4	100.0%	1	100.0%	1.8	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			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Twin Hills Native Corporation, 2005.