

# **The Subsistence Harvest of Harbor Seal and Sea Lion by Alaska Natives in 1995**

**Technical Paper No. 238**

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Cover, A hunter's hat with sea lion whiskers, Kodiak Island (Alutiiq). The hat is of woven spruce root, with a design painted with blue, green, red, and black pigments. It is embellished with sea lion whiskers, dentalium shells, trade beads, and fabrics. Collected in 1884. Photo courtesy Smithsonian Institution, National Museum of Natural History, Cat. No. 74720.

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## ABSTRACT

This report describes the subsistence takes of harbor seal (*Phoca vitulina*) and Steller sea lion (*Eumetopias jubatus*) by Alaska Natives in 1995, 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 takes during 1992-94. The research was conducted by the Division of Subsistence, Alaska Department of Fish and Game under contract with the National Oceanic and Atmospheric Administration and the National Marine Fisheries Service. Information derives from systematic interviews with hunters and users of marine mammals in 1,886 households in 58 coastal communities within the geographic ranges of the two species. Local researchers conducted most of the household interviews as part of a local and regional research network. The project received generous support from leaders of a number of Native governments, regional, and statewide associations.

During 1995, the estimated subsistence take of harbor seal by Alaska Natives was 2,742 seals, with a 95 percent confidence range of between 2,184 to 3,679 seals. Of the take, 8.9 percent (243 seals) were stuck and lost and 91.1 percent (2,498 seals) were harvested. Harbor seals were taken in 50 of 58 surveyed communities. The 1995 take of harbor seals (2,742 seals) was the second highest take estimate to date of the four survey years -- 2,854 seals (1992), 2,736 seals (1993), and 2,621 seals (1994).

During 1995, the estimated subsistence take of sea lions by Alaska Natives was 339 sea lions, with a 95 percent confidence range of between 258 to 465 sea lions. Of the take, 9.5 percent (32 sea lions) were struck and lost and 90.5 percent (307 sea lions) were harvested. Sea lions were taken in 17 of 58 surveyed communities. The 1995 take of sea lions (339 animals) was the lowest recorded of the four survey years -- 549 sea lions (1992), 487 sea lions (1993), and 416 sea lions (1994).

For harbor seals, hunters reported taking males over females by about two to one, and adults (84 percent) over juveniles (15 percent) or pups (1 percent). For sea lions, hunters reported taking males over females by about two to one, and juveniles (67 percent) over adults (33 percent) or pups (0 percent). Regional differences in the ages of harbor seal harvests are discussed as possible indices of population structures. Struck and lost rates were the lowest reported to date for both species. In addition to detailed quantitative harvest breakdowns by community, the report describes contemporary subsistence food products prepared from seals and sea lions.

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The sixty-two 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 fifth year:

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Simeon Kuzakin, King Cove  
Floyd Wilson, King Salmon  
Marvin George, Klawock  
Donald **Hotch Sr.**, Klukwan  
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Alex Tallekpalek, Levelock  
Bessie Toyukak, Manokotak  
Floyd Wilson, Naknek and King Salmon  
George Inga Sr., Old Harbor  
Bert Nelson Sr., Ouzinkie  
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Steve Phillips, Perryville  
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Sandra Churchill, Wrangell  
Raymond Sensmeier, Yakutat

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## INTRODUCTION

This report describes the subsistence takes of harbor seal (*Phoca vitulina*) and Steller sea lion (*Eumetopias jubatus*) by Alaska Natives in 1995. The report is the fourth of a five-year subsistence study of harbor seal and sea lion in Alaska. Findings for the first three study years were reported in Wolfe and Mishler (1993, 1994, 1995). The research was conducted by the Division of Subsistence of the Alaska Department of Fish and Game under contract with the National Oceanic and Atmospheric Administration and the National Marine Fisheries Service. The study was conducted in cooperation with the Indigenous People's Council for Marine Mammals and the Rural Alaska Community Action Program, organizations representing Alaska Native marine mammal hunters.

The report provides information on the subsistence takes of harbor seal and sea lion during 1995, 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 58 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 organized by the Division of Subsistence.

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 seal and sea lion in Alaska (Figs. 2 and 3, from Bums, Frost, and Lowry 1985). The use of harbor seal and sea lion 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 seal include the Aleut of the Aleutian Islands, the Alutiiq and Eyak of the Pacific Gulf coast, the Dena'ina of Cook Inlet, the Tlingit, **Haida**, and Tsimshian of the southeast archipelago, and the Yup'ik of southwest Alaska. The Aleut of the Aleutian and Pribilof

islands and the Alutiiq of certain communities of Kodiak Island and the Gulf of Alaska currently are the primary users of sea lion. Sea lion **are** used more occasionally by Tlingit, **Haida**, Tsimshian, and Yup'ik groups. Subsistence products derived from harbor seal and sea lion by Alaska Natives include oil, meat, and skins, as described in Wolfe and Mishler (1993).

The report is organized in several sections. The **Methodology** section describes the methods used to collect information. Two sections (The Subsistence Take of Harbor Seal in 1995 and The Subsistence Take of Sea Lion in 1995) present information on the statewide takes of harbor seal and sea lion, summarized by community and region. Some contemporary methods used by Alutiiq families to prepare selected subsistence products from sea lions and harbor seals are described in the section, Alutiiq Cooking of Sea Lion and Harbor Seal. In the Discussion section are interpretations of the 1995 survey year, including comparisons with other years. Appendix A contains a copy of the survey instrument used in household interviews with marine mammal hunters. Appendix B contains regional summaries of the subsistence takes of harbor seal and seal lion. Appendix C contains materials on the subsistence takes of harbor seal and sea lion by community.

## METHODOLOGY

Information on the subsistence takes of harbor seal and sea lion in 1995 was collected through interviews with persons in 1,886 Alaska Native households in 58 coastal communities (Table 2). Respondents were asked to recall information about their household's use of these marine mammals during the previous year. The survey instrument administered in household interviews was similar to one used 1992-1994, first developed in consultation with the Rural Alaska Community Action Program (**RurAL CAP**) and the Indigenous People's Council for Marine Mammals (**IPCoMM**) (see

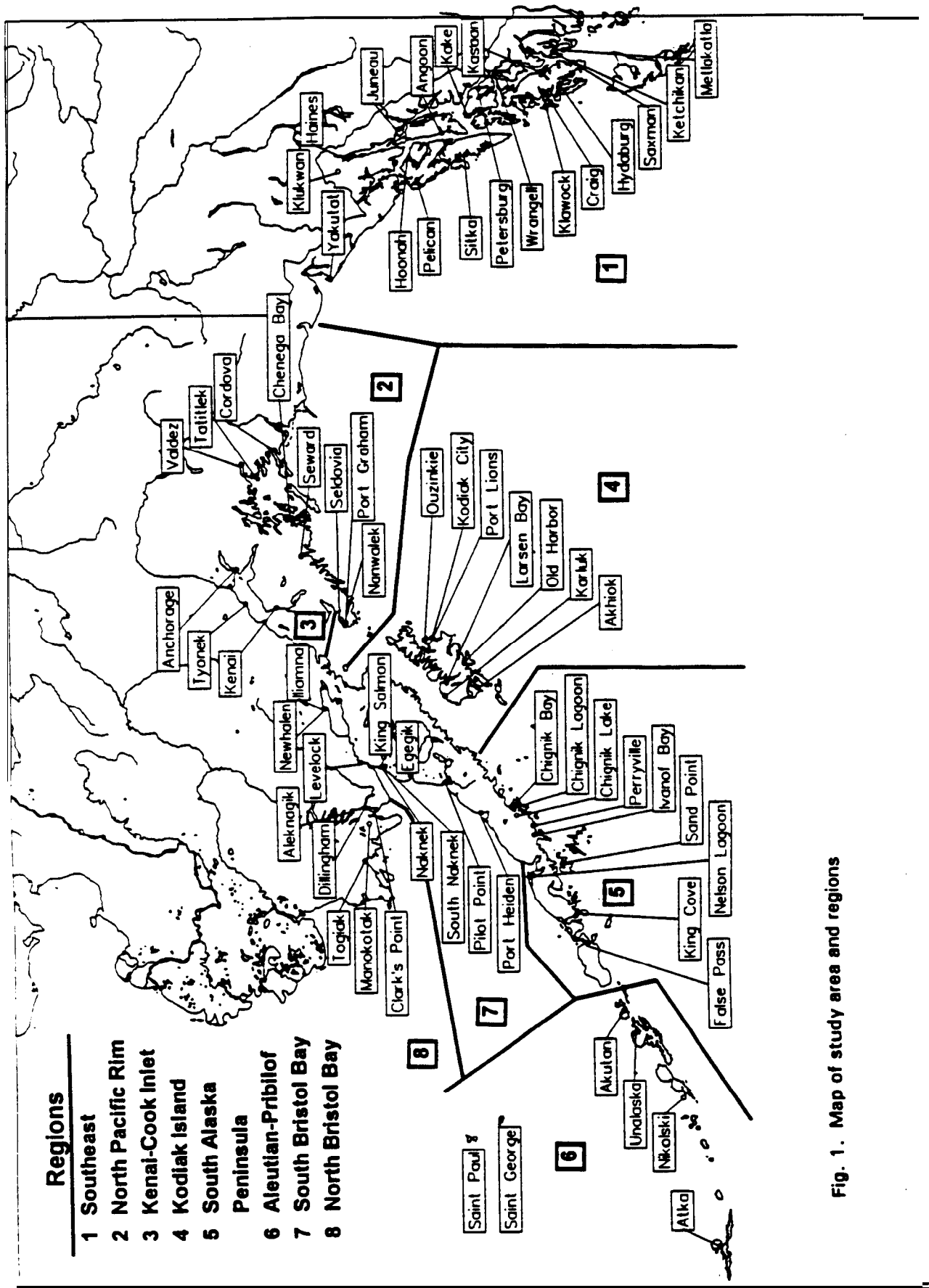


Fig. 1. Map of study area and regions

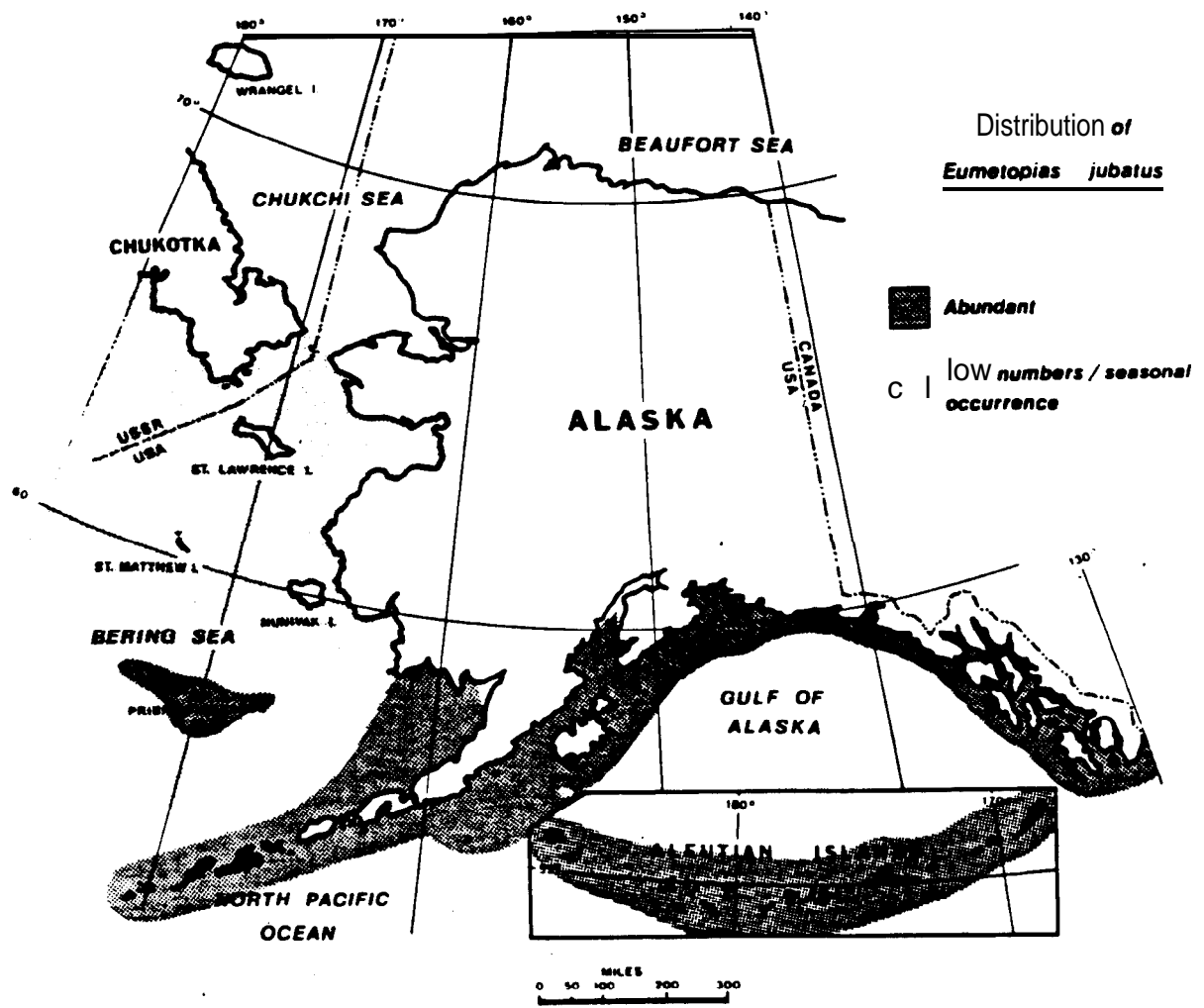


Fig. 2. General distribution of sea lion in Alaska. (Source: Burns, Frost, and Lowry 1985)

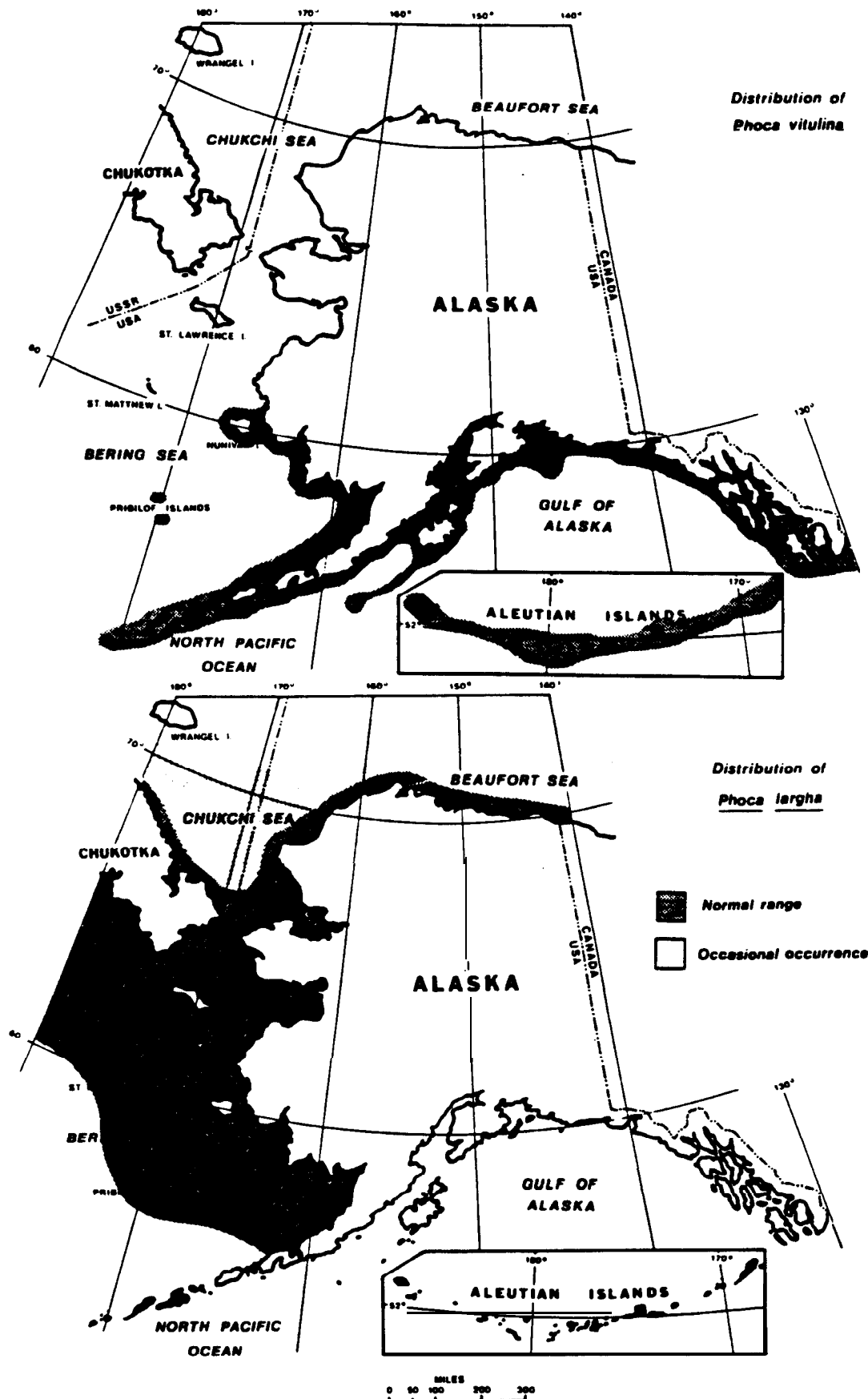


Fig. 3. [Top] General distribution of harbor seal (*Phoca vitulina*) in Alaska. [Bottom] General distribution of spotted seal (*Phoca largha*) in Alaska. (Source: Burns, Frost, and Lowry 1985)

Appendix A). Hunters and household heads were asked to recall the number of sea lions and harbor seals 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 sea lion or harbor seal during the last year. Interviews were conducted by local researchers hired and trained as part of the project, augmented by regional Division of Subsistence researchers in select communities. Surveys were conducted in two rounds. The first survey was administered in May 1995 to cover the period from January through April 1995. The second survey was administered in January 1996 to cover the period from May through December 1995.

The project was designed to be a collaborative effort with Alaska Native hunters and organizations. During the first year of the study, a number of Native governments, Native leaders, and associations with interests in harbor seal and sea lion management were contacted. to obtain suggestions about project design, including the Alaska Federation of Natives; the Aleutians Ea'st 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 (Chugachmiut). **RurAL** CAP and **IPCoMM** were asked to be the formal technical oversight organizations for the project, through a subcontract with the Division of Subsistence. Each year, they review the project, data analysis, and preliminary findings of the study.

Following standard procedures of the Division of Subsistence, support for the project was solicited from local Native governments, or by leaders of local government entities, for each community where surveys were conducted (see Fall 1990). 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 research network using locally-hired researchers and regional Division of Subsistence researchers was used to collect information on subsistence takes of sea lion and harbor seal during 1995. This type of research organization was developed by the Division of Subsistence during the first study year, and fully implemented by the second study year. In each of the 58 communities selected for surveys, one or two local residents were hired as local researchers. Newly hired local researchers received in-person training from regional researchers, whereas local researchers who successfully conducted surveys on previous rounds usually worked with regional researchers through telephone, fax, and the mail. Local researchers performed tasks such as updating community lists of households and hunters, implementing household sampling regimes, administering household surveys twice 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

**TABLE 1.  
ORGANIZATIONS CONTACTED DURING THE PROJECT**

<b>Community</b>	<b>Government/Organization Contacted</b>
Akhiok	Akhiok Tribal Council City of Akhiok
Akutan	Akutan Traditional Village Council City of Akutan Akutan Corporation
Aleknagik	Aleknagik Tribal Council
Anchorage	Cook Inlet Tribal Council Alaska Federation of Natives
Angoon	City of Angoon
Atka	Atka IRA Council City of Atka
Chenega Bay	Chenega Bay 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 Traditional Council
Cordova	Traditional Village of Eyak
Craig	Shaan-Seet, Inc. City of Craig
Dillingham	Dillingham Traditional Council
Egegik	Egegik Traditional Council
False Pass	False Pass Tribal Council Cii of False Pass
Haines	Chilkat Indian Association
Hoonah	Hoonah Traditional Council
Hydaburg	Haida Corporation City of Hydaburg
Iliamna	Iliamna Village Council
Ivanof Bay	Ivanof Bay traditional Village Council
Juneau	Tlingit and Haide Central Council Sealaska Auke Tribe Council Alaska Native Brotherhood/Sisterhood
Kake	Organized Village of Kake City of Kake
Karluk	Karluk IRA Council
Kenai	Kenaitze Indian Tribe IRA Cook Inlet Region, Inc.
Ketchikan	Ketchikan IRA Council Ketchikan Indian Corporation
King Cove	Agdaagux Tribe of King Cow Belofsky Village Council City of King Cove
King Salmon	King Salmon Tmdiiinal Council
Klawock	Klawock Cooperative Association Klawock Haanya copomtion
Klukwan	Chilkat Indian Village
Kodiak City	Kodiak Tribal Council Kodiak Area Native Association
Larsen Bay	Larsen Bay Tribal Council City of Larsen Bay
Levelock	Levelock Traditional Council

<b>Community</b>	<b>Government/Organization Contacted</b>
Manokotak	Manokotak Tmditional Council
Metlakatla	Council Annette Islands Reserve Metlakatla Indian Community
Naknek	Naknek Traditional Council
Nanwalek	Nanwalek Traditional Council English Bay Corporation
Nelson Lagoon	Nelson Lagoon Village Council
Newhalen	Newhalen Tmditional Council
Nikolski	Nikolski IRA Council Chaluka Corporation
Old Harbor	Old Harbor Tribal Council City of Old Harbor
Ouzinkie	Ouzinkie Native Corporation Ouzinkie Tribal Council Cii of Ouzinkie
Pelican	Tlingit and Haide Indians of 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 Tmdiiional Council
Port Lions	Port Lion8 Tribal Council City of Port Lion8
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	Saxman IRA Council City of Saxman
Seldovia	Seldovia Native Association
Seward	Qutekcek Native Tribe
Sitka	Alaska Native Brotherhood Sitka Tribal Council
South Naknek	South Naknek Traditional Council
Tatitlek	Tatitlek IRA Council
Togiak	Togiak Traditional Council
Tyonek	Native Village of Tyonek
Unalaska	Quawelagin Tribal Council
Valdez	Valdez Native Association
Wrangell	Wrangell Cooperative Association
Yakutat	Yakutat Alaska Native Brotherhood/Alaska Native Sisterhood Yakutat Native Association Yak-Tat Kwaan



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 fieldnotes into a centralized database. Data analysis was performed by Division of Subsistence data management staff.

During the fourth survey year, the number of surveyed communities dropped to 58 places (from 59 in 1994) because of the loss of Nikolski as a sampling unit. In the **1995-96** survey year, a local surveyor could not be secured in Nikolski. The project decided not to send a regional researcher to Nikolski to collect the **information**, given the small harvest of marine mammals documented in previous years relative to the cost of a regional researcher conducting the survey in the distant Aleutian Island community.

Households were selected using three main designs, depending upon the community -- census sampling, two-strata random sampling, and chain referral 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). For communities with census or chain referral sampling, 85.3 percent of identified households (1,131 of 1,326 households) were successfully contacted and interviewed. For communities with two-strata designs, 90.1 percent of high stratum household were successfully contacted and interviewed (364 of 404 households), while a 19.5 percent random sample of low stratum households were interviewed (391 of 2,001 households) (Tables 2 and 3). These are high sampling fractions for studies using survey methodologies which 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 primarily due to logistical problems in contacting households, rather than refusals to participate.

**Table 2**  
**Sampling Methodology By Community**  
**Harbor Seal and Sea Lion Surveys, 1995**

<u>Region and Community</u>	<u>1990 Native Population</u>	<u>Type of Desian</u>	<u>Identified Household Universe<sup>1</sup></u>	<u>Surveyed Households</u>	<u>Percentage Households Surveyed</u>
<b>1. SOUTHEAST</b>					
<b>Angoon</b>	525	Chain Referral	55	51	92.7%
Craig	288	Chain Referral	31	25	80.6%
Haines	279	Chain Referral	25	25	100.0%
Hoonah	534	Chain Referral	69	63	91.3%
Hydaburg	342	Chain Referral	14	13	92.9%
Juneau	3,462	Chain Referral	82	65	79.3%
Kake	514	Chain Referral	72	49	68.1%
Ketchikan	1,614	Chain Referral	19	9	47.4%
Klawock	392	Chain Referral	25	20	80.0%
Klukwan	112	Chain Referral	16	5	31.3%
Pelican	65	Chain Referral	18	16	88.9%
Petersburg	334	Chain Referral	26	23	88.5%
<b>Saxman</b>	284	Chain Referral	11	9	81.8%
Sitka	1,797	Two Strata	<b>600</b>	108	<b>18.0%</b>
Wrangell	507	Chain Referral	7	4	57.1%
Yakutat	294	Chain Referral	55	47	85.5%
<b>Region Total</b>	<b>11,343</b>		<b>1,125</b>	532	47.3%
<b>2. NORTH PACIFIC RIM</b>					
Chenega Bay	65	Census	23	14	60.9%
<b>Cordova</b>	272	Two Strata	232	38	16.4%
Nanwalek	144	Census	40	39	97.5%
Port Graham	150	Census	58	58	100.0%
Seldovia	48	Two Strata	41	41	100.0%
Seward	410	Two Strata	159	40	25.2%
Tatitlek	103	Census	25	19	76.0%
V a l d e z	239	Chain Referral	6	5	83.3%
<b>Region Total</b>	<b>1,431</b>		584	254	43.5%
<b>3. UPPER KENAI-COOK INLET</b>					
Anchorage	14,569	Chain Referral	24	13	54.2%
Homer	189	Chain Referral	4	3	75.0%
<b>Region Total</b>	<b>14,758</b>		28	16	<b>57.1%</b>
<b>4. KODIAKISLAND</b>					
Akhiok	72	Census	19	19	100.0%
Karluk	65	Census	18	16	88.9%
Kodiak City	811	Chain Referral	11	10	90.9%
Larsen Bay	124	Census	37	37	100.0%
Old Harbor	252	Two Strata	88	52	59.1%
Ouzinkie	178	Census	53	51	96.2%
Port Lions	150	Two Strata	48	40	<b>83.3%</b>
<b>Region Total</b>	<b>1,652</b>		274	225	<b>82.1%</b>

<sup>1</sup> 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, 1995**

<u>Region and Community</u>	<u>1990 Native Population</u>	<u>Type of Desian</u>	<u>Identified Household Universe</u>	<u>Surveyed Households</u>	<u>Percentage Households Surveyed</u>
<b>5. SOUTH ALASKA PENINSULA</b>					
Chignik Bay	85	Census	25	20	80.0%
Chignik Lagoon	30	Census	21	20	95.2%
Chignik Lake	122	Census	33	31	93.9%
False Pass	52	Census	20	17	85.0%
Ivanof Bay	33	Census	8	6	75.0%
King Cove	177	Two Strata	118	22	18.6%
Perryville	102	Census	33	<b>21</b>	63.6%
Sand Point	<b>433</b>	Two Strata	140	37	26.4%
<b>Region Total</b>	<b>1,034</b>		398	174	43.7%
<b>6. ALEUTIAN ISLANDS</b>					
Akutan	80	Census	31	31	100.0%
Atka	91	Census	25	10	40.0%
Unalaska	259	Two Strata	105	43	41.0%
<b>Region Total</b>	430		161	84	52.2%
<b>7. PRIBILOF ISLANDS</b>					
St. George	131	Census	42	42	100.0%
St. Paul	<b>504</b>	Two Strata	159	76	47.8%
<b>Region Total</b>	635		201	118	58.7%
<b>8. SOUTH BRISTOL BAY</b>					
Egegik	86	Census	36	26	72.2%
King Salmon	108	Census	26	26	100.0%
Levelock	87	Census	32	32	100.0%
Naknek	236	Two Strata	87	41	47.1%
Pilot Point	45	Census	27	25	92.6%
Port Heiden	86	Census	33	33	100.0%
South Naknek	108	Census	32	31	96.9%
<b>Region Total</b>	756		273	214	78.4%
<b>9. NORTH BRISTOL BAY</b>					
Aleknagik	154	Census	45	38	84.4%
Clark's Point	53	Census	14	14	100.0%
Dillingham	1,125	Two Strata	443	60	13.5%
Manokotak	368	Two Strata	67	50	74.6%
Togiak	<b>535</b>	Two Strata	118	107	90.7%
<b>Region Total</b>	<b>2,235</b>		687	269	39.2%
<b>TOTAL</b>	34,274		3,731	<b>1,886</b>	50.5%
(Excl. Anchorage)	(19,705)		(3,707)	<b>(1,873)</b>	(50.5%)

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.

**Table 3**  
**Sampling Methodology for Communities**  
**With Two Strata Designs,**  
**Harbor Seal and Sea Lion Surveys, 1995**

<u>Community</u>	<u>Number</u> <u>High Stratum</u> <u>Households</u>	<u>Sampled</u> <u>High Stratum</u> <u>Households</u>	<u>Percent</u> <u>High</u> <u>Stratum</u>	<u>Number</u> <u>Low Stratum</u> <u>Households</u>	<u>Sampled</u> <u>Low Stratum</u> <u>Households</u>	<u>Percent</u> <u>Low</u> <u>Stratum</u>
<b>Cordova</b>	14	14	100.0%	218	24	11.0%
Dillingham	31	29	93.5%	412	31	7.5%
King Cove	14	14	100.0%	104	8	7.7%
Manokotak	27	27	100.0%	40	23	57.5%
Naknek	15	15	100.0%	72	26	36.1%
Old Harbor	29	24	82.8%	59	28	47.5%
Port Lions	7	7	100.0%	41	33	80.5%
Sand Point	15	13	86.7%	125	24	19.2%
Seldovia	12	12	100.0%	29	29	100.0%
Seward	12	11	91.7%	147	29	19.7%
Sitka	75	72	96.0%	525	36	6.9%
St. Paul	59	47	79.7%	100	29	29.0%
Togiak	62	56	90.3%	56	51	91.1%
<u>Unalaska</u>	<u>32</u>	<u>23</u>	<u>71.9%</u>	<u>73</u>	<u>20</u>	<u>27.4%</u>
Total	404	364	90.1%	2001	391	19.5%

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996

As stated above, there were two survey rounds, covering the hunting periods of January 1995 through April 1995, and May 1995 through December 1995. In data analysis, information collected during the second round was linked with the data set collected during the first round on a household basis, to complete the entire 1995 calendar year. Incomplete household data sets due to the household being missed during one of the survey rounds were treated as unsurveyed households and were given the mean of their respective sample groups.

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.

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 was used as the lower range for a community if it was higher than the statistically-calculated lower take estimate. This was done because the unexpanded take represents known (not hypothetical) kills.



## THE SUBSISTENCE TAKE OF HARBOR SEAL IN 1995

### Estimated Size of the Harbor Seal Take. 1995

The estimated size of the total take of harbor seals (*Phoca vitulina*) by Alaska Natives in 1995 is presented in Tables 4 and 5. In 1995, there were an estimated 2,742 harbor seals taken by Alaska Natives for subsistence uses (with a 95 percent confidence range of between 2,184 to 3,679 animals) (Table 4). Of the 1995 subsistence take, 8.9 percent (243 harbor seals) were struck and lost, and 91.1 percent (2,498 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 seal (*Phoca vitulina*) and spotted seal (*Phoca largha*) (see Fig. 3). Local indigenous Yup'ik taxonomies categorize adults of the two Linnaean species as a single type (*issunig*) in this area, and categorize pups into two different types. Of the total North Bristol Bay take, we classified 28 seals as *Phoca vitulina* and 197 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*, 17.0 percent (35 animals) were reported struck and lost, and 83.0 percent (164 animals) were harvested (Appendix B, Table 9). In Table 4, we also assumed the entire South Bristol Bay take of 97 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 1995 is 2,742 harbor seals, based on the assumptions above.

**Table 4**  
**Estimated Subsistence Takes of**  
**Harbor Seal (*Phoca vitulina*) and**  
**Sea Lion (*Eumetopias jubatus*)**  
**By Alaska Natives, 1992 - 1995**

	<u>Year</u>	<u>Estimated Total</u>			<u>Lower and Upper</u> <u>Confidence Range</u> <u>for Total Take</u>
		<u>Harvest</u>	<u>S t r u c k</u> <u>and Lost</u>	<u>Total</u> <u>Take</u>	
<b>Harbor Seal</b>	<b>1992</b>	2,501 67.6%	353 12.4%	2,854 100.0%	<b>2,293 - 3,692</b>
	1993	2,365 66.4%	371 13.6%	2,736 100.0%	2,334 - 3,471
	1994	2,313 66.2%	308 11.6%	2,621 100.0%	2,110 - 3,457
	1995	<b>2,498</b> 91.1%	243 6.9%	2,742 100.0%	2,184 - 3,679
<b>Sea Lion</b>	1992	370 67.4%	179 32.6%	<b>549</b> 100.0%	452 - 712
	1993	348 71.4%	139 26.6%	487 100.0%	390 - 629
	1994	336 60.6%	80 19.2%	416 100.0%	330 - 554
	1995	307 90.5%	32 9.5%	<b>339</b> 100.0%	258 - <b>465</b>

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.



**Table 5**  
**Regional Distribution of Subsistence Takes of**  
**Harbor Seal (*Phoca vitulina*) by Alaska Natives, 1995**  
**With Confidence Intervals and Statistical Ranges**

Region	Estimated Total		Take	Confidence Interval (+/- %)	Total Take			Percentage of Take by Region	Per Capita Harvest	Struck and Lost Rate
	Harvest	Struck and Lost			Lower Range Estimate	Upper Range Estimate				
Southeast	1719.1	170.9	1890.0	29.8%	1547.0	2453.9	68.9%	0.14	9.0%	
North Pacific Rim	252.1	11.7	263.9	51.4%	189.0	399.4	9.6%	0.15	4.4%	
Upper Kenai-Cook Inlet	3.7	0.0	3.7	89.8%	2.0	7.0	0.1%	0.03	0.0%	
Kodiak Island	223.0	9.2	232.2	15.8%	207.4	268.8	8.5%	0.26	3.9%	
South Alaska Peninsula	117.0	11.1	128.0	61.0%	88.0	206.1	4.7%	0.09	8.6%	
Aleutian Islands	86.9	9.7	96.6	59.7%	53.0	154.3	3.5%	0.19	10.1%	
Pribilof Islands	2.5	0.0	2.5	88.4%	2.0	4.7	0.1%	0.00	0.0%	
South Bristol Bay	68.3	28.3	96.6	30.1%	82.0	125.6	3.5%	0.09	29.3%	
North Bristol Bay	25.9	2.4	28.3	109.6%	14.0	59.2	1.0%	0.01	8.5%	
<b>ALASKA</b>	<b>2498.5</b>	<b>243.3</b>	<b>2741.8</b>	<b>34.2%</b>	<b>2184.4</b>	<b>3679.1</b>	<b>100.0%</b>		<b>8.9%</b>	
Percentage of Take	91.1%	8.9%	100.0%							

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.

**Table 6**  
**Subsistence Harbor Seal Harvest, Take, and Use by Alaska Natives, 1995**  
**With Confidence Intervals and Statistical Ranges, by Community**

Community	Harbor Seal Harvested Per Capita	Percent of Native Households Harvesting Harbor Seal	Percent of Native Households Using Harbor Seal	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total Harbor Seal Take	Total Take		
							Confidence Interval (+/- %)	Lower Estimate Range	Upper Estimate Range
<b>SOUTHEAST ALASKA</b>									
Angoon	.15			80.9	9.7	90.6	19.4%	84.0	108.1
Craig	.24			69.4	13.6	83.1	24.3%	67.0	103.2
Haines	.09			24.0	9.0	33.0	0.0%	33.0	33.0
Hoonah	.44			236.6	19.7	256.3	13.1%	234.0	289.9
Hydaburg	.02			6.5	0.0	6.5	27.6%	6.0	8.2
Juneau	.01			42.9	1.3	44.2	27.2%	35.0	56.2
Kake	.14			72.0	1.5	73.5	32.7%	50.0	97.5
Ketchikan	.03			46.4	0.0	46.4	135.1%	22.0	109.2
Klawock	.67			263.8	0.0	263.8	37.6%	211.0	362.9
Klukwan	.31			35.2	6.4	41.6	105.7%	13.0	85.6
Pelican	.21			13.5	0.0	13.5	24.5%	12.0	16.8
Petersburg	.04			13.6	1.1	14.7	19.3%	13.0	17.5
Saxman	.06			15.9	0.0	15.9	29.1%	13.0	20.5
Sitka	.05	6.3%	84.7%	93.8	6.3	100.0	6.4%	96.0	106.4
Wrangell	.18			89.3	22.8	112.0	78.6%	64.0	200.1
Yakutat	2.09			615.5	79.6	695.1	20.7%	594.0	838.7
<b>NORTH PACIFIC RIM</b>									
Chenega Bay	.53	42.9%	57.1%	44.4	1.6	46.0	40.6%	28.0	64.7
Cordova	.13	9.62	30.9%	83.4	2.0	85.4	80.2%	45.0	154.0
Nanwalek	.15	25.6%	92.3%	23.6	0.0	23.6	9.8%	23.0	25.9
Port Graham	.14	8.6%	87.9%	23.0	0.0	23.0	0.0%	23.0	23.0
Seldovia	.04	4.9%	34.1%	4.0	0.0	4.0	0.0%	4.0	4.0
Seward	.03	0.7%	13.7%	10.9	5.5	16.4	<b>56.6%</b>	15.0	25.6
Tatitlek	.61	21.1%	84.2%	46.1	2.6	48.7	57.5%	37.0	76.7
Valdez	.64			16.8	0.0	16.8	52.2%	14.0	25.6
<b>UPPER KENAI-COOK INLET</b>									
Anchorage	.04			3.7	0.0	3.7	89.8%	2.0	7.0
Homer	.00			0.0	0.0	0.0	0.0%	0.0	0.0
<b>KODIAK ISLAND</b>									
Akhiok	.08	21.1%	36.8%	5.0	0.0	5.0	0.0%	5.0	5.0
Karluk	.47	43.8%	37.5%	28.1	6.8	34.9	25.7%	31.0	43.8
Kodiak City	.19			8.8	0.0	8.8	43.8%	8.0	12.7
Larsen Bay	.12	10.8%	45.9%	11.0	0.0	11.0	0.0%	<b>11.0</b>	11.0
Old Harbor	.38	44.6%	100.0%	112.0	2.4	114.4	15.7%	<b>96.4</b>	132.4
Ouzinkie	.35	29.4%	45.1%	56.1	0.0	56.1	10.4%	54.0	62.0
Port Lions	.01	4.2%	<b>8.3%</b>	2.0	0.0	2.0	0.0%	2.0	2.0
<b>SOUTH ALASKA PENINSULA</b>									
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	<b>0.0%</b>	0.0	0.0
Chignik Lake	.02	6.5%	74.2%	3.2	1.1	4.3	37.8%	4.0	5.9
False Pass	.42	41.2%	58.8%	25.9	1.2	27.1	27.2%	23.0	34.4
Ivanof Bay	.56	83.3%	100.0%	18.7	2.7	21.3	42.1%	16.0	30.3
King Cove	.15	20.3%	44.1%	49.0	3.0	52.0	94.2%	28.0	<b>101.0</b>
Perryville	.09	14.3%	90.5%	<b>11.0</b>	3.1	14.1	58.9%	9.0	22.5
Sand Point	.02	4.1%	16.1%	9.2	0.0	9.2	31.0%	8.0	12.1

**Table 6 (Continued)**  
**Subsistence Harbor Seal Harvest, Take, and Use by Alaska Natives, 1995**  
**With Confidence Intervals and Statistical Ranges, by Community**

Community	Harbor Seal Harvested Per Capita	Percent of Native Households Harvesting Harbor Seal <sup>1</sup>	Percent of Native Households Using Seal	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total Harbor Seal Take	Total Take		
							Confidence Interval (+/- %)	Lower Range Estimate	Upper Range Estimate
<b>ALEUTIAN ISLANDS</b>									
Akutan	.10	9.7%	100.0%	7.0	0.0	7.0	0.0%	7.0	7.0
Atka	.45	50.0%	90.0%	42.5	0.0	42.5	66.6%	17.0	70.8
Unalaska	.13	8.8%	26.7%	37.4	9.7	47.1	62.2%	29.0	76.5
<b>PRIBILOF ISLANDS</b>									
St. George	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
St. Paul	.00	0.8%	3.9%	2.5	0.0	2.5	88.4%	2.0	4.7
<b>SOUTH BRISTOL BAY</b>									
Egegik	.02	3.8%	7.7%	1.4	0.0	1.4	103.3%	1.0	2.8
King Salmon	.16	15.4%	34.6%	13.0	3.0	16.0	0.0%	16.0	16.0
Levelock	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Naknek	.14	14.4%	56.3%	34.8	15.3	50.2	54.0%	36.0	77.3
Pilot Point	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Port Heiden	.16	33.3%	87.9%	17.0	10.0	27.0	0.0%	27.0	27.0
South Naknek	.02	6.5%	35.5%	2.1	0.0	2.1	24.1%	2.0	2.6
<b>NORTH BRISTOL BAY</b>									
Aleknagik	.00	13.2%	78.9%	0.0	0.0	0.0	0.0%	0.0	0.0
Clark's Point	.00	50.0%	92.9%	0.0	0.0	0.0	0.0%	0.0	0.0
Dillingham	.01	4.2%	59.6%	13.3	0.0	13.3	188.5%	1.0	38.3
Manokotak	.03	27.5%	81.1%	9.3	2.4	11.7	38.2%	10.0	16.1
Togiak	.01	29.0%	94.4%	3.3	0.0	3.3	44.0%	3.0	4.8
<b>ALASKA TOTAL</b>				2498.5	243.3	2741.8	34.2%	2184.4	3679.1
<b>SPOTTED SEALS, NORTH BRISTOL BAY</b>									
Aleknagik	.07	13.2%	78.9%	11.8	13.0	24.9	29.2%	21.0	32.1
Clark's Point	.22	50.0%	92.9%	10.0	5.0	15.0	0.0%	15.0	15.0
Dillingham	.01	4.2%	59.6%	7.5	7.5	15.0	24.9%	14.0	18.7
Manokotak	.07	27.5%	81.1%	22.9	3.6	26.5	35.6%	20.0	35.9
Togiak	.23	29.0%	94.4%	111.5	4.4	115.9	13.5%	105.0	131.5
<b>TOTAL WITH OTHER SEALS</b>				2662.2	276.8	2939.0	33.1%	2359.4	3912.3

<sup>1</sup> In North Bristol Bay, percentage of households harvesting and using *issunq*, as was done in last year's report.

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.

### Geographic Distribution of Harbor Seal Takes

Table 5 shows the regional distribution of harbor seal takes by Alaska Natives in 1995. The largest takes in terms of absolute numbers were taken by the Tlingit and **Haida** of the Southeast region. About 68.9 percent of the statewide take of harbor seals (1,890 animals), were taken by hunters in Southeast Alaska (Table 5). The regions ranked second and third were the North Pacific Rim (263 seals, or 9.6 percent of the statewide take) and Kodiak island (232 seals, or 8.5 percent). The remainder of the statewide harbor seal take (356 animals, or 13.0 percent) was distributed among the other six regions.

The geographic distribution of harbor seal takes by community is shown in Table 6 and Fig. 4. Of the top ten communities (in terms of absolute number of harbor seals taken in **1995**), eight were in the Southeast region, one in the North Pacific Rim region, and one in the Kodiak Island region. The ten top ranking communities were Yakutat (695 seals), Klawock (264 seals), Hoonah (256 seals), Old Harbor (114 seals), Wrangell (128 seals), Sitka (100 seals), **Angoon** (91 seals), **Cordova** (85 seals), Craig (83 seals), and Kake (44 seals). There were eight surveyed communities with no reported harbor seals taken in 1995 -- Aleknagik, Chignik Bay, Chignik Lagoon, Clark's Point, Homer, Levelock, Pilot Point, and St. George.

Per capita harvests are the number 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 1994 were Yakutat (2.09 harbor seals harvested per person), Klawock (.67), Valdez (.64), Tatitlek (.61), Ivanof Bay (.56), Chenega Bay (.53), Karluk (.47), Atka (.45), Hoonah (.44), and False Pass (.42). 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, three were in the North Pacific Rim

region, three were in the Southeast region, two were in the Aleutian Islands region, and one each was in the Kodiak Island and South Alaska Peninsula regions.

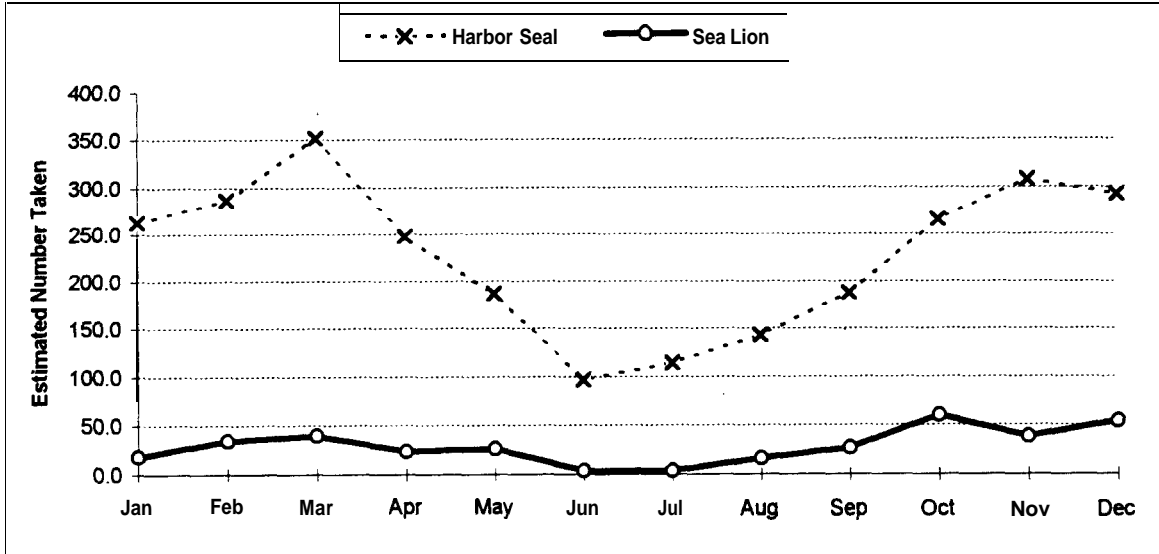
#### Seasonal Distribution of Harbor Seal Takes

The seasonal distribution of the statewide harbor seal take in 1995 is depicted in Figs. 5 and 6, and conforms with the general seasonal patterns for previous years. Harbor seals were reported killed during every month of 1995. In 1995, hunting early in the year (January, February, and March) was the most productive of any year since surveys began in 1992. The drop in hunting productivity during late spring and early summer of 1995 (about May through July) was characteristic of other years. In 1995, hunting productivity was the lowest ever recorded during August and September (see Fig. 6). Productivity increased the last three months of the year (October through December). The statewide total masks differences in seasonal patterns between regions and communities, which are depicted in Appendices B and C.

#### Age and Sex Composition of Harbor Seal Harvests

The estimated age and sex composition of the 1995 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 to 1 (1,305 males to 631 females of harvests with reported sex). Hunters also reported harvesting substantially more adult harbor seals than juveniles or pups (5.3 to 1). Overall, adult females comprised about 27 percent of the total known harvest of harbor seals in 1995. Hunters did not report the sex for 23 percent of the harvest or the age for about 7 percent of the harvest. The age and sex are also unknown for animals which were struck and lost. A further analysis of age and sex composition is found in the Discussion section.

**Figure 5**  
**Seasonally Adjusted Takes of**  
**Harbor Seal and Sea Lion**  
**By Alaska Natives, 1995**

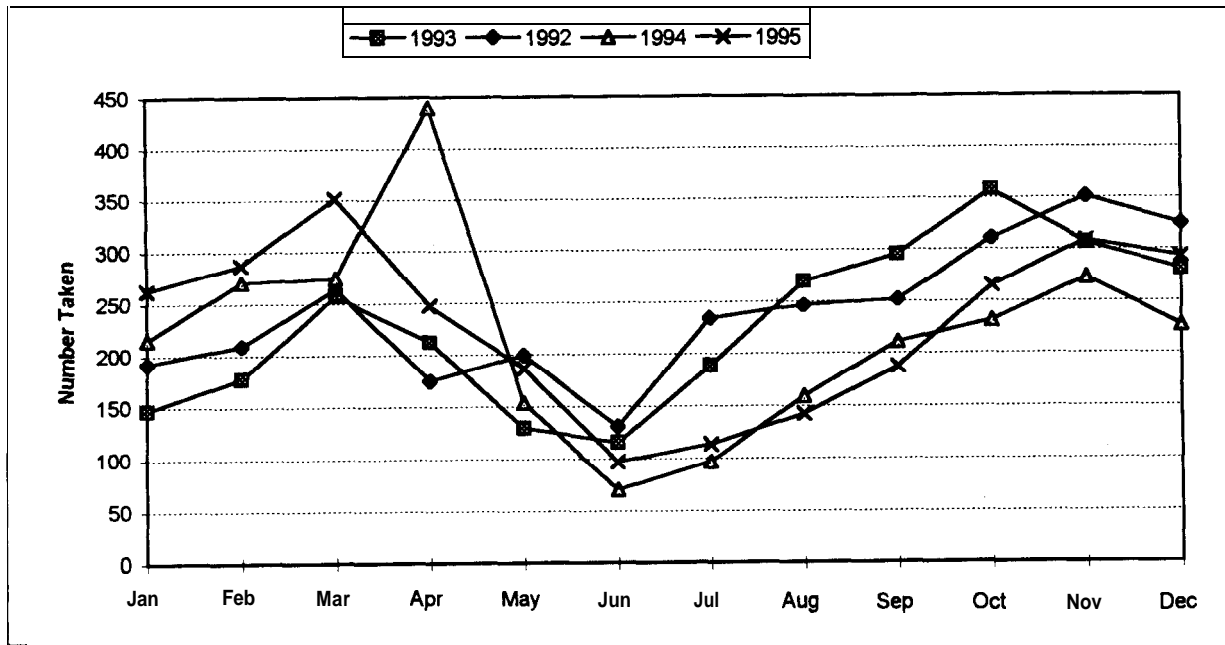


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Harbor Seal	263.1	267.1	351.2	247.5	166.7	96.0	113.6	142.3	166.9	265.5	306.4	292.7
Percentage	9.6%	10.5%	12.6%	9.0%	6.6%	3.5%	4.1%	5.2%	6.6%	9.7%	11.2%	10.7%
Cum. Percent	9.6%	20.1%	32.9%	41.9%	46.7%	52.2%	55.4%	61.6%	66.4%	76.1%	89.3%	100%

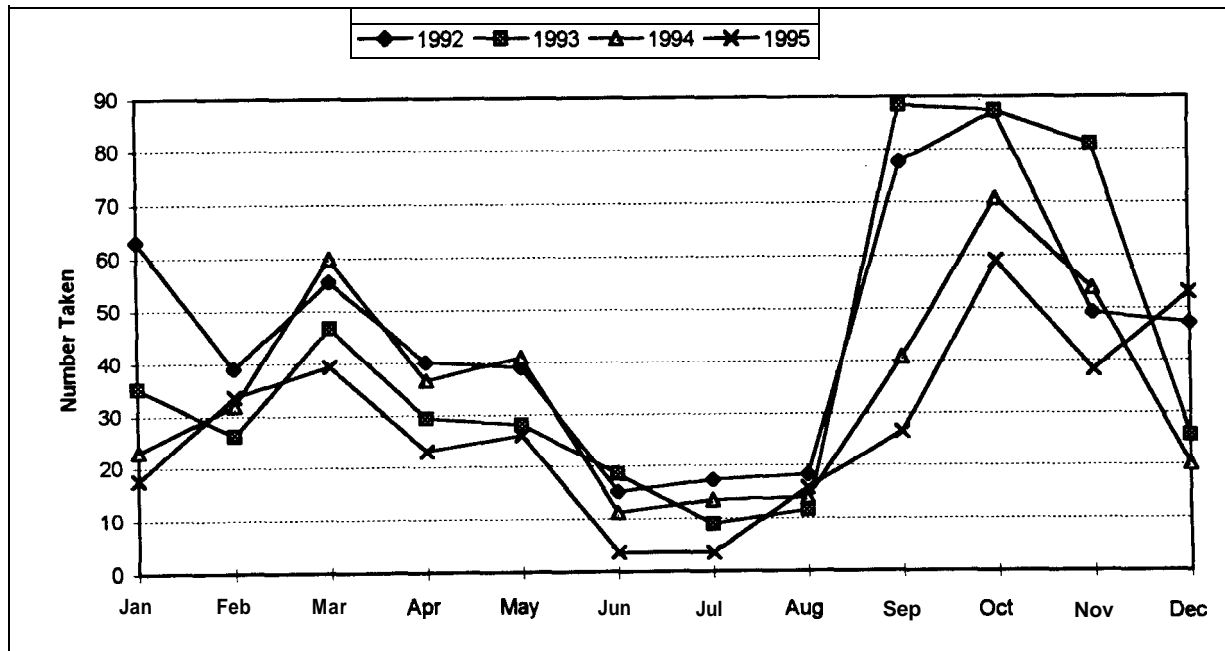
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sea Lion	17.6	33.6	39.3	23.0	26.0	3.6	3.4	15.7	26.5	59.0	36.3	53.0
Percentage	5.2%	9.9%	11.6%	6.0%	7.7%	1.1%	1.0%	4.6%	7.0%	17.4%	11.3%	15.6%
Cum. Percent	5.2%	15.1%	26.7%	33.5%	41.2%	42.2%	43.3%	47.9%	55.7%	73.1%	64.4%	100%

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.

**Figure 6**  
**Estimated Seasonally Adjusted Takes of Harbor Seal**  
**by Alaska Natives, 1992, 1993, 1994, and 1995**



**Figure 7**  
**Estimated Seasonally Adjusted Takes of Sea Lion**  
**by Alaska Natives, 1992, 1993, 1994, and 1995**



Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.

**Table 7**  
**Age and Sex Composition of Harbor Seal Harvests**  
**By Alaska Natives, 1995**

	Male	Female	Unknown Sex	Total
<b>Adult</b>	1056.0	529.4	368.7	1954.1
Row Percent	54.0%	27.1%	18.9%	100.0%
Column Percent	80.9%	83.9%	65.5%	78.2%
<b>Juvenile</b>	209.0	78.0	56.2	343.1
Row Percent	60.9%	22.7%	16.4%	100.0%
Column Percent	16.0%	12.4%	10.0%	13.7%
<b>Pup</b>	14.4	1.1	13.4	28.8
Row Percent	49.8%	3.8%	46.4%	100.0%
Column Percent	1.1%	0.2%	2.4%	1.2%
<b>Unknown Age</b>	26.0	22.5	124.5	173.0
Row Percent	15.0%	13.0%	72.0%	100.0%
Column Percent	2.0%	3.6%	22.1%	6.9%
<b>Total</b>	1305.3	631.0	562.7	<b>2499.0</b>
Row Percent	52.2%	25.3%	22.5%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%

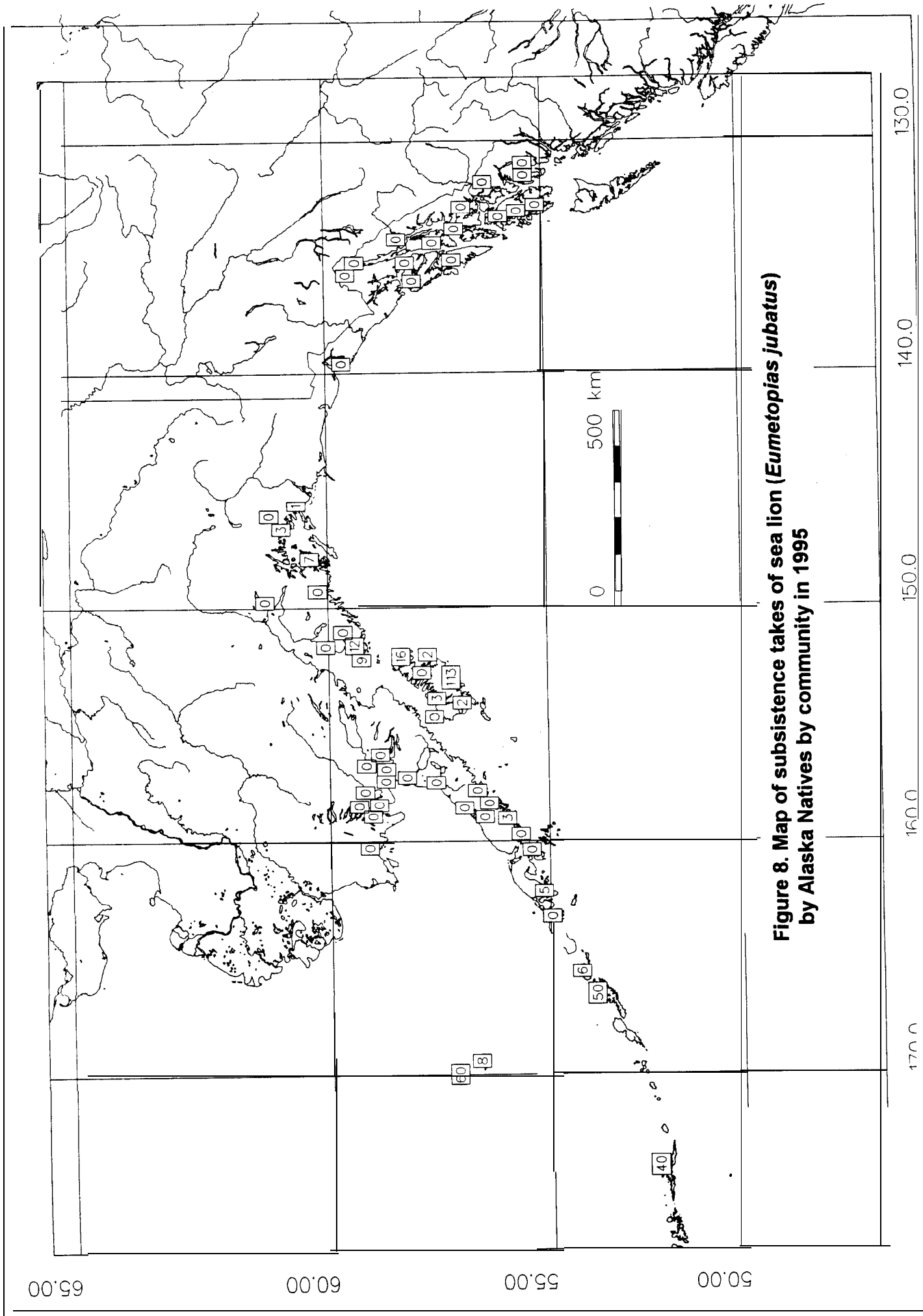
Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.



**Table 8**  
**Age and Sex Composition of Harbor Seal Harvests**  
**By Alaska Natives by Region, 1995**

AGE AND SEX	Southeast	North	Upper	South			South	North	Alaska	
		Pacific	Kenai- Cook Inlet	Kodiak Island	Alaska Peninsula	Aleutian Islands	Pribilof Islands	Bristol Bay		Bristol Bay
Adult Male	793.6	61.7	1.8	59.8	54.1	54.2	0.0	6.4	4.3	1058.0
Adult Female	426.8	44.6	0.0	40.3	8.0	3.9	0.0	4.0	3.7	529.4
Adult Unknown Sex	279.9	24.8	0.0	6.6	7.0	1.4	0.0	46.8	2.2	368.7
Juvenile Male	77.7	23.8	0.0	87.4	12.7	10.5	2.5	0.0	14.4	209.0
Juvenile Female	20.5	0.0	0.0	39.2	18.5	0.0	0.0	0.0	1.7	78.0
Juvenile Unknown Sex	11.3	12.2	0.0	7.6	16.1	7.0	0.0	2.0	0.0	56.2
Pup Male	0.0	13.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0	14.4
Pup Female	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Pup Unknown Sex	8.8	1.3	0.0	0.0	1.3	0.0	0.0	2.0	0.0	13.4
Mate Unknown Age	25.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	26.0
Female Unknown Age	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5
Unknown Age and Sex	51.9	50.6	1.8	1.0	2.1	10.0	0.0	7.0	0.0	124.5
<b>TOTAL</b>	<b>1719.1</b>	<b>252.1</b>	<b>3.7</b>	<b>223.0</b>	<b>117.0</b>	<b>88.9</b>	<b>2.5</b>	<b>88.3</b>	<b>28.4</b>	<b>2499.0</b>
<b>AGE ONLY</b>										
Adult	1500.3	151.0	1.8	106.8	67.2	59.5	0.0	57.3	10.2	1954.1
Juvenile	109.6	36.0	0.0	114.2	45.3	17.4	2.5	2.0	16.1	343.1
Pup	9.8	14.5	0.0	0.0	2.5	0.0	0.0	2.0	0.0	28.8
Unknown Age	99.4	50.6	1.8	2.0	2.1	10.0	0.0	7.0	0.0	173.0
<b>TOTAL</b>	<b>1719.1</b>	<b>252.1</b>	<b>3.7</b>	<b>223.0</b>	<b>117.0</b>	<b>86.9</b>	<b>2.5</b>	<b>68.3</b>	<b>26.4</b>	<b>2499.0</b>
<b>SEX ONLY</b>										
Male	896.3	118.7	1.8	128.2	88.0	64.8	2.5	6.4	18.7	1305.3
Female	470.9	44.6	0.0	79.8	22.6	3.9	0.0	4.0	5.5	631.0
Unknown Sex	351.9	88.9	1.8	15.3	26.4	18.3	0.0	57.9	2.2	562.7
<b>TOTAL</b>	<b>1719.1</b>	<b>252.1</b>	<b>3.7</b>	<b>223.0</b>	<b>117.0</b>	<b>86.9</b>	<b>2.5</b>	<b>68.3</b>	<b>28.4</b>	<b>2499.0</b>

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1998.



**Figure 8. Map of subsistence takes of sea lion (*Eumetopias jubatus*) by Alaska Natives by community in 1995**

## THE SUBSISTENCE TAKE OF SEA LION IN 1995

### Estimated Size of the Sea Lion Take, 1994

The estimated size of the total take of Steller sea lions by Alaska Natives in 1995 is presented in Tables 4 and 9. In 1995, there were an estimated 339 sea lions taken by Alaska Natives for subsistence uses (with a 95 percent confidence range of between 258 to 465 animals) (Table 4). Of the 1995 subsistence take, 9.5 percent (32 sea lions) were struck and lost, and 90.5 percent (307 sea lions) were harvested.

### Geographic Distribution of Sea Lion Takes

Table 9 shows the regional distribution of sea lion takes in 1995 by Alaska Natives. In 1995, the largest takes were by the Alutiiq of the Kodiak Island region (136 sea lions, or 40.0 percent of the total statewide take of sea lions). The four other regions harvesting sea lions were the Aleutian Islands (96 sea lions, 28.3 percent), the Pribilof Islands (68 sea lions, 20.0 percent), the North Pacific Rim (31 sea lions, 9.3 percent), and the South Alaska Peninsula (8 sea lions, 2.4 percent) (Table 9).

The geographic distribution of sea lion takes by community is shown in Table 10 and Fig. 8. The five top ranking communities were Old Harbor (113 sea lions), St. Paul (60 sea lions), Unalaska (50 sea lions), Atka (40 sea lions), and Ouzinkie (16 sea lions). These five communities accounted for 82.0 percent of the total Alaska take (279 sea lions). In 1995, 41 of 58 surveyed communities reported no sea lions taken. Six more communities reported a take of less than five sea lions. Only eleven communities had harvests of five or more sea lions in **1994**.

**Table 9**  
**Regional Distribution of Subsistence Takes of**  
**Sea Lion (*Eumetopias jubatus*) by Alaska Natives, 1995**  
**With Confidence Intervals and Statistical Ranges**

Region	Estimated Total		Total Take				Percentage of Take by Region	Per Capita Harvest	Struck and Lost Rate
	Harvest	Struck and Lost	Take	Confidence Interval (+/-)%	Lower Range Estimate	Upper Range Estimate			
Southeast	0.0	0.0	0.0	0.0%	0.0	0.0	0.00	0.0%	
North Pacific Rim	28.4	3.0	31.4	29.9%	28.0	40.8	0.02	9.3%	
Upper Kenai-Cook Inlet	0.0	0.0	0.0	0.0%	0.0	0.0	0.00	0.0%	
Kodiak Island	127.9	7.7	135.7	15.2%	117.7	156.2	0.15	40.0%	
South Alaska Peninsula	8.1	0.0	8.1	45.6%	7.0	11.9	0.01	2.4%	
Aleutian Islands	85.0	11.1	96.1	70.1%	58.0	163.5	0.18	28.3%	
Pribilof Islands	57.6	10.3	67.9	36.4%	47.0	92.7	0.08	20.0%	
South Bristol Bay	0.0	0.0	0.0	0.0%	0.0	0.0	0.00	0.0%	
North Bristol Bay	0.0	0.0	0.0	0.0%	0.0	0.0	0.00	0.0%	
<b>ALASKA</b>	<b>307.1</b>	<b>32.1</b>	<b>339.2</b>	<b>37.1%</b>	<b>257.7</b>	<b>465.0</b>	<b>0.00</b>	<b>100.0%</b>	
Percentage of Take	90.5%	9.5%	100.0%						

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.

### Seasonal Distribution of Sea Lion Takes

The seasonal distribution of the sea lion take in **1995** is depicted in Figs. 5 and 7. Sea lions were reported killed during every month of 1995. Seasonal peaks in subsistence productivity occurred during **February-March** and October-December, while summer (June-July) was the period of lowest productivity. Hunting productivity in 1995 was relatively low in comparison with the three previous years (1992-94): productivity was the lowest ever reported in nine of twelve months (January, March-July, September-November). The statewide total masks differences in seasonal patterns between regions and communities, which are depicted in Appendices B and C.

### Age and Sex Composition of Sea Lion Harvests

The reported age and sex compositions of the 1995 sea lion harvests are shown in Tables 11 and 12 by geographic region. Hunters reported harvesting male sea lions over female sea lions by a ratio of about 2 to 1 (169 males to 83 females of animals with sex reported). Hunters also reported harvesting juvenile sea lions over adults by about 2 to 1 (194 adolescents to 97 adults). Adult females comprised about 13 percent of the total known harvest of sea lions in 1995. Hunters did not report the sex for 18 percent of the harvest or the age for about 5 percent of the harvest. The age and sex also are unknown for sea lions which were struck and lost.

## HUNTING PARTICIPATION

Participation in hunting in 1995 was the lowest of the four survey years (**1992-95**). Based on survey findings, the estimated number of households which reported at least one member hunting harbor seal was 1,014 households in 1992, 854 households in 1993, 971 households in 1994, and 805 households in 1995 (Table 13). The estimated number of households which reported at least one member hunting sea lions

**Table 10**  
**Subsistence Sea Lion Harvest, Take, and Use by Alaska Natives, 1995**  
**With Confidence Intervals and Statistical Ranges, by Community**

Community	Sea Lion Harvested Per Capita	Percent of Native Households	Percent of Native Households	Sea Lion Harvested	Sea Lion Struck and Lost	Total Sea Lion Take	Total Take		
		Harvesting Sea Lion	Using Sea Lion				Confidence Interval (+/- %)	Lower Range Estimate	Upper Range Estimate
<b>SOUTHEAST ALASKA</b>									
Angoon	.00			0.0	0.0	0.0	0.0%	0.0	0.0
Craig	.00			0.0	0.0	0.0	0.0%	0.0	0.0
Haines	.00			0.0	0.0	0.0	0.0%	0.0	0.0
Hoonah	.00			0.0	0.0	0.0	0.0%	0.0	0.0
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			0.0	0.0	0.0	0.0%	0.0	0.0
Klukwan	.00			0.0	0.0	0.0	0.0%	0.0	0.0
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	<b>0.0%</b>	<b>0.0%</b>	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
<b>NORTH PACIFIC RIM</b>									
Chenega Bay	.08	14.3%	50.0%	6.6	0.0	6.6	83.3%	4.0	12.0
Cordova	.00	0.0%	0.0%	0.0	1.0	1.0	0.0%	1.0	1.0
Nanwalek	.06	12.8%	59.0%	9.2	0.0	9.2	<b>15.2%</b>	9.0	10.6
Port Graham	.06	10.3%	<b>60.3%</b>	10.0	2.0	12.0	0.0%	12.0	12.0
Seldovia	.00	0.0%	14.6%	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	.04	5.3%	36.8%	2.6	0.0	2.6	<b>96.0%</b>	2.0	5.2
Valdez	.00			0.0	0.0	0.0	0.0%	0.0	0.0
<b>UPPER KENAI-COOK INLET</b>									
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
<b>KODIAK ISLAND</b>									
Akhiok	.02	5.3%	21.1%	1.0	1.0	2.0	0.0%	2.0	2.0
Karluk	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Kodiak City	.05			2.2	0.0	2.2	59.1%	2.0	3.5
Larsen Bay	.02	2.7%	2.7%	2.0	1.0	3.0	0.0%	3.0	3.0
Old Harbor	.37	47.0%	97.6%	107.1	5.7	112.9	15.2%	95.7	130.1
Ouzinkie	.10	15.7%	21.6%	15.6	0.0	15.6	13.2%	15.0	17.6
Port Lions	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
<b>SOUTH ALASKA PENINSULA</b>									
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%	6.5%	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
Ivanof Bay	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
King Cove	.02	1.7%	1.7%	5.0	0.0	5.0	0.0%	5.0	5.0
Perryville	.03	4.0%	52.4%	3.1	0.0	3.1	118.2%	2.0	6.9
Sand Point	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0

**Table 10 (Continued)**  
**Subsistence Sea Lion Harvest, Take, and Use by Alaska Natives, 1995**  
**With Confidence Intervals and Statistical Ranges, by Community**

Community	Sea Lion Harvested Per Capita	Percent of Native Households Harvesting Sea Lion	Percent of Native Households Using Sea Lion	Sea Lion Harvested	Sea Lion Struck and Lost	Total Sea Lion Take	Total Take		
							Interval (+/- %)	Range Estimate	Range Estimate
<b>ALEUTIAN ISLANDS</b>									
Akutan	.08	9.7%	100.0%	6.0	0.0	6.0	0.0%	6.0	6.0
Atka	.42	30.0%	90.0%	40.0	0.0	40.0	89.7%	16.0	75.9
Unalaska	.13	6.6%	25.8%	39.0	11.1	50.1	<b>62.9%</b>	36.0	81.6
<b>PRIBILOF ISLANDS</b>									
St. George	.03	4.8%	19.0%	4.0	4.0	8.0	0.0%	8.0	8.0
St. Paul	.08	17.8%	62.3%	53.6	6.3	59.9	41.3%	39.0	84.7
<b>SOUTH BRISTOL BAY</b>									
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
<b>NORTH BRISTOL BAY</b>									
Aleknagik	.00	0.0%	0.0%	<b>0.0</b>	0.0	0.0	0.0%	0.0	0.0
Clark's Point	.00	0.0%	0.0%	<b>0.0</b>	0.0	0.0	0.0%	0.0	0.0
Dillingham	.00	0.0%	0.5%	<b>0.0</b>	0.0	0.0	0.0%	0.0	0.0
Manokotak	.00	0.0%	0.0%	<b>0.0</b>	0.0	0.0	0.0%	0.0	0.0
Togiak	.00	0.0%	0.9%	<b>0.0</b>	0.0	0.0	0.0%	0.0	0.0
<b>ALASKA TOTAL</b>				307.1	32.1	339.2	37.1%	257.7	465.0

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.

**Table 11**  
**Age and Sex Composition of Sea Lion Harvests**  
**By Alaska Natives, 1995**

	Male	Female	Unknown Sex	Total
<b>Adult</b>	47.5	39.7	10.1	97.3
Row Percent	48.8%	40.8%	10.4%	100.0%
Column Percent	28.2%	47.7%	<b>18.3%</b>	31.7%
<b>Juvenile</b>	121.1	43.5	29.1	193.7
Row Percent	<b>62.5%</b>	22.4%	15.0%	100.0%
Column Percent	71.8%	52.3%	52.6%	63.1%
<b>Pup</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Row Percent	<b>0.0%</b>	0.0%	0.0%	0.0%
Column Percent	0.0%	0.0%	0.0%	0.0%
<b>Unknown Age</b>	<b>0.0</b>	<b>0.0</b>	16.1	16.1
Row Percent	0.0%	0.0%	100.0%	100.0%
Column Percent	<b>0.0%</b>	0.0%	29.0%	5.2%
<b>Total</b>	168.6	83.2	55.4	307.1
Row Percent	54.9%	27.1%	<b>18.0%</b>	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.



**Table 12**  
**Age and Sex Composition of Sea Lion Harvests**  
**By Alaska Natives by Region, 1995**

AGE AND SEX	Southeast	North	Upper	Kodiak	South		Pribilof	South	North	Alaska
		Pacific	Kenai-		Alaska	Aleutian		Bristol	Bristol	
		Rim	Cook	Island	Peninsula	Islands	Islands	Bay	Bay	
Adult Male	0.0	9.4	0.0	8.0	3.6	20.0	6.5	0.0	0.0	47.5
Adult Female	0.0	2.7	0.0	18.5	2.6	15.9	0.0	0.0	0.0	39.7
Adult Unknown Sex	0.0	3.0	0.0	5.7	0.0	1.4	0.0	0.0	0.0	10.1
Juvenile Male	0.0	2.0	0.0	62.1	2.0	29.2	34.8	0.0	0.0	121.1
Juvenile Female	0.0	1.6	0.0	30.1	0.0	9.2	2.5	0.0	0.0	43.5
Juvenile Unknown Sex	0.0	7.0	0.0	3.4	0.0	8.3	10.3	0.0	0.0	29.1
Pup Male	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pup Female	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pup Unknown Sex	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Male Unknown Age	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Female Unknown Age	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown Age and Sex	0.0	2.6	0.0	0.0	0.0	10.0	3.4	0.0	0.0	16.1
<b>TOTAL</b>	<b>0.0</b>	<b>28.4</b>	<b>0.0</b>	<b>127.9</b>	<b>8.1</b>	<b>85.0</b>	<b>57.6</b>	<b>0.0</b>	<b>0.0</b>	<b>307.1</b>
<b>AGE ONLY</b>										
Adult	0.0	15.1	0.0	32.3	6.1	37.2	8.5	0.0	0.0	97.3
Juvenile	0.0	10.7	0.0	95.6	2.0	37.7	47.7	0.0	0.0	193.7
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	2.6	0.0	0.0	0.0	10.0	3.4	0.0	0.0	16.1
<b>TOTAL</b>	<b>0.0</b>	<b>28.4</b>	<b>0.0</b>	<b>127.9</b>	<b>8.1</b>	<b>85.0</b>	<b>57.6</b>	<b>0.0</b>	<b>0.0</b>	<b>367.1</b>
<b>SEX ONLY</b>										
Male	0.0	11.4	0.0	70.1	5.6	40.2	41.3	0.0	0.0	168.6
Female	0.0	4.3	0.0	48.7	2.6	25.1	2.5	0.0	0.0	83.2
Unknown Sex	0.0	12.7	0.0	9.1	0.0	19.7	13.8	0.0	0.0	55.4
<b>TOTAL</b>	<b>0.0</b>	<b>26.4</b>	<b>0.0</b>	<b>127.9</b>	<b>8.1</b>	<b>85.0</b>	<b>57.6</b>	<b>0.0</b>	<b>0.0</b>	<b>367.1</b>

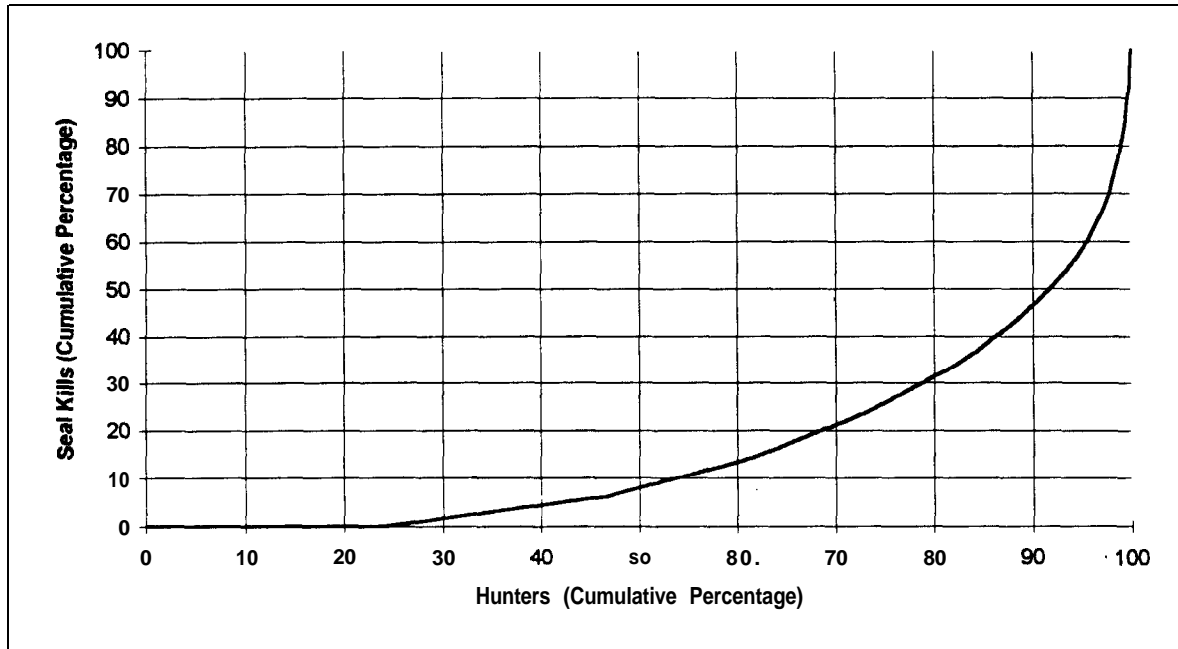
Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.

**Table 13**  
**Participation Rates of Alaska Native Households in**  
**Hunting Harbor Seal or Sea Lion, 1992, 1993, 1994, and 1995**

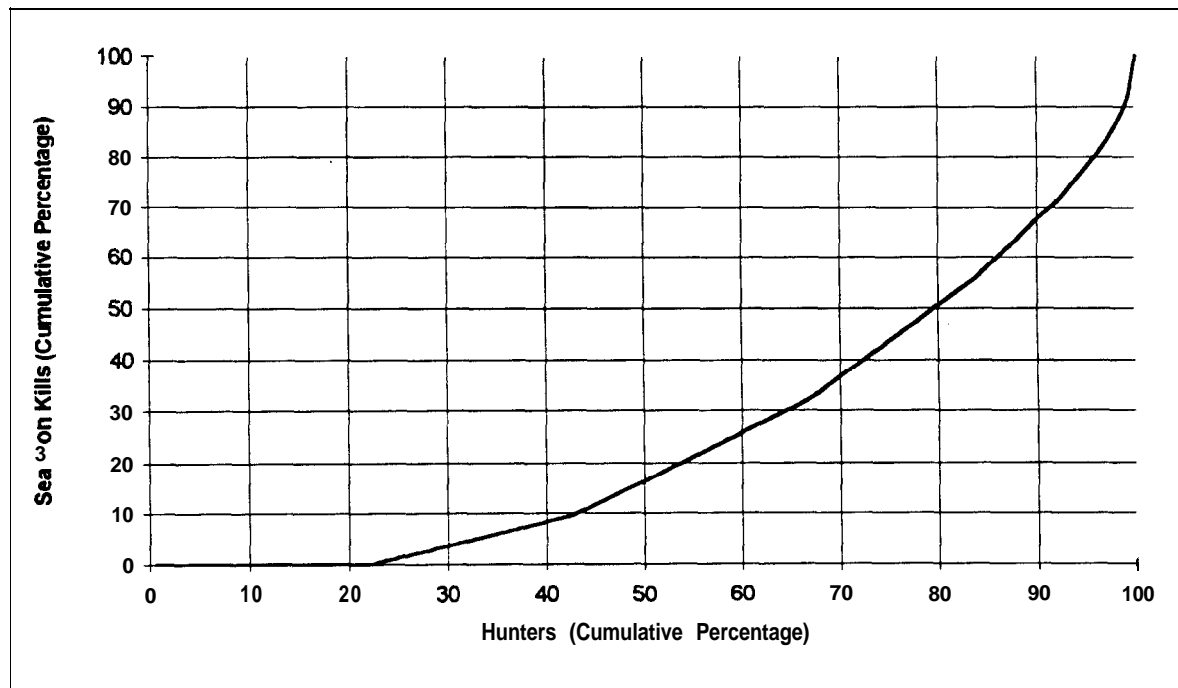
	HARBOR SEAL			SEA LION		
	Household Universe	Percentage of Universe	Percentage of Hunting Households	Household Universe	Percentage of Universe	Percentage of Hunting Households
<b>STUDY YEAR 1992</b>						
Did Not Hunt	2698	73%	--	3513	95%	--
Hunted Unsuccessfully	<b>290</b>	<b>8%</b>	<b>29%</b>	<b>59</b>	<b>2%</b>	<b>30%</b>
Hunted Successfully	724	19%	71%	140	4%	70%
Total Households	3712	100%	--	3712	100%	--
Total Hunting Households	1014	27%	100%	199	5%	100%
<b>STUDY YEAR 1993</b>						
Did Not Hunt	3510	80%	--	4142	95%	--
Hunted Unsuccessfully	216	5%	25%	78	2%	35%
Hunted Successfully	638	15%	75%	144	3%	65%
Total Households	4364	100%	--	4364	100%	--
Total Hunting Households	854	20%	100%	222	5%	100%
<b>STUDY YEAR 1994</b>						
Did Not Hunt	3311	77%	--	4072	95%	--
Hunted Unsuccessfully	362	8%	37%	85	2%	40%
Hunted Successfully	608	14%	63%	125	3%	60%
Total Households	4282	100%	--	4282	100%	--
Total Hunting Households	971	23%	100%	210	5%	100%
<b>STUDY YEAR 1995</b>						
Did Not Hunt	2926	78%	--	3573	96%	--
Hunted Unsuccessfully	208	6%	26%	39	1%	24%
Hunted Successfully	597	16%	74%	120	3%	76%
Total Households	3731	100%	--	3731	100%	--
Total Hunting Households	805	22%	100%	158	4%	100%

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.

**Figure 9**  
**Specialization in Harbor Seal Takes:**  
**Percentage of Hunters by Percentage of Take, 1995**



**Figure 10**  
**Specialization in Sea Lion Takes:**  
**Percentage of Hunters by Percentage of Take, 1995**



Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.

**Table 14**  
**Comparison of Households**  
**Interviewed in 1992, 1993, 1994, and 1995**  
**(Unweighted Numbers)**

**HARBOR SEAL**

COMMUNITIES WITH FOUR YEARS OF DATA

- 846 Households interviewed in **1992, 1993, 1994, and 1995**
- 277 Households did not hunt in any year
- 156 Households hunted in 1 of the 4 years
- 148 Households hunted in 2 of the 4 years
- 126 Households hunted in 3 of the 4 years
- 139 Households hunted in 4 of the 4 years

ST. PAUL (3 YEARS OF DATA)

- 33 Households interviewed in 1992, 1994, and 1995
- 30 Households did not hunt any year
- 0 Households hunted in 1 of the 3 years
- 3 Households hunted in 2 of the 3 years
- 0 Households hunted in 3 of the 3 years

**SEA LION**

COMMUNITIES WITH FOUR YEARS OF DATA

- 846 Households interviewed in **1992, 1993, 1994, and 1995**
- 706 Households did not hunt in any year
- 62 Households hunted in 1 of the 4 years
- 34 Households hunted in 2 of the 4 years
- 23 Households hunted in 3 of the 4 years
- 21 Households hunted in 4 of the 4 years

ST. PAUL (3 YEARS OF DATA)

- 33 Households interviewed in **1992, 1994, and 1995**
- 10 Households did not hunt any year
- 6 Households hunted in 1 of the 3 years
- 7 Households hunted in 2 of the 3 years
- 10 Households hunted in 3 of the 3 years

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.

was 199 households in 1992, 222 households in 1993, 210 households in 1994, and 158 households in 1995. Although fewer people hunted, the percent of hunters who were successful improved in 1995 over the previous year. The percent of hunting households that reported hunting unsuccessfully in 1995 was 26 percent for harbor seal (compared with 29 percent in 1992, 25 percent in 1993, and 37 percent in 1994); the percent of unsuccessful households was 24 percent for sea lion (compared with 30 percent in 1992, 35 percent in 1993, and 40 percent in 1994).

Hunting harbor seal or sea lion is a relatively specialized subsistence activity in Alaska communities. For the four survey years, the large majority of Native households in the study's sampling universe did not attempt to hunt harbor seals or sea lions (Table 13). Among hunters, there also was substantial specialization in productivity (see Figs. 9 and 10). A relatively small number of highly-productive hunters reported taking most of the subsistence kills. The harvests from this core group of highly-productive hunters were distributed among a wider range of households. Specialization has implications for co-management systems. The largest management effects in any region are potentially reached through this group of highly productive subsistence hunters.

There appears to be moderate turnover in hunting households across years, as shown by the unweighted composition of the hunters surveyed all four survey years in Table 14. For harbor seal, there were 139 households that hunted all four years, 126 households that hunted in three of the four survey years, 148 households that hunted in two years, 156 that hunted one year, and 277 households that did not hunt in any year. For sea lion, there were 21 households that hunted all four years, 23 households that hunted in three of the four survey years, 34 households that hunted in two years, 62 that hunted one year, and 706 households that did not hunt in any year. Hunter participation is shown separately for St. Paul, where three years' data are available (Table 14).



Photograph 1. Don Kompkoff, a hunter from Chenega Bay, demonstrates the method of roasting seal meat over an open fire (called *mungyuk*) outside the Tatitlek school. A wind screen has been placed behind to control smoke.

## ALUTIIQ USES OF SEA LION AND HARBOR SEAL

Earlier reports have described food products derived from harbor seal and sea lion (cf., Wolfe and Mishler 1993:36-43, 54-59). This section describes some additional detail on two food products prepared by Alutiiq families -- *qiluryat* (braided intestines) and roasted meat prepared over an open fire. The descriptions are based on key respondent interviews and observations by Craig Mishler.

In the Alutiiq culture area of southcentral Alaska, especially in the Gulf of Alaska, braided harbor seal or sea lion intestine (*qiluryat*) is a favorite delicacy, a unique dish distantly resembling pork or beef sausage. Making *qiluryat* is traditionally a woman's culinary skill. In Kodiak Island communities only the older women still remember how to braid, but in the Prince William Sound community of Tatitlek, young boys as well as young girls have recently acquired the skill from their grandmothers (see Photographs 2 and 3). The tradition of braiding intestines is also carried on in the lower Cook Inlet villages of Nanwalek and Port Graham and in communities along the Alaska Peninsula.

In preparing seal or sea lion intestines for braiding, the intestines are first separated from the membrane which encases them. To clean the intestines of their contents, one-inch slits are made with a sharp knife about every three inches along the entire length of the intestine. The contents of the intestine are squeezed out by pressing the intestine between the thumb and forefinger and pulling along its entire length. The intestine is rinsed in clean water and the process of squeezing and rinsing is repeated two more times. Sometimes it is soaked in water and vinegar overnight.

Seal intestines can be braided in two ways -- with or without a strip of fat. Sea lion intestines are braided plain, without a fat strip, because the texture of the fat in a



Photograph 2. Jessie Tiedeman, an elder from Tatitlek, demonstrates the technique of braiding seal intestines with a strip of fat (*qiluryat*) at the Tatitlek school.





Photograph 3. Tanya Totemoff, from Tatitlek, uses the technique of braiding seal intestines without the fat at the Tatitlek school.

sea lion does not lend itself well to braiding. Before being braided with seal intestines, seal blubber is cut into a long continuous narrow strip resembling the letter “s”. The length of the fat should match the length of the intestine to which it is braided. The finished braid nearly conceals the fat except on the very end, where it is tied off.

Braiding is done with the thumb and forefinger of the left hand serving as a pedestal or mount which is actively wrapped or woven by intestines manipulated with the right hand (Photograph 2). The precise technique, like tying sailor’s knots, is not easily described on paper but is readily learned through demonstration and close observation. Sometimes a piece of rope and some clean rags are used for practice, with the rope substituting for the intestine and the rags representing the strip of fat. Finished plain gut braiding looks something like the pigtails in a schoolgirl’s hair (Photograph 3).

The finished braid, whether with or without fat, is boiled in a pot of water for a couple of hours, then sliced and eaten. Some villagers like to boil the braids with the seal’s heart and the kidney, and there are many local variations. In Karluk, people boil *qiluryat* with Worcestershire sauce and onion. In Ivanof Bay, people boil *qiluryat* with salt and serve it with hot mustard. In Akhiok, some families like it sliced cold on sandwiches.

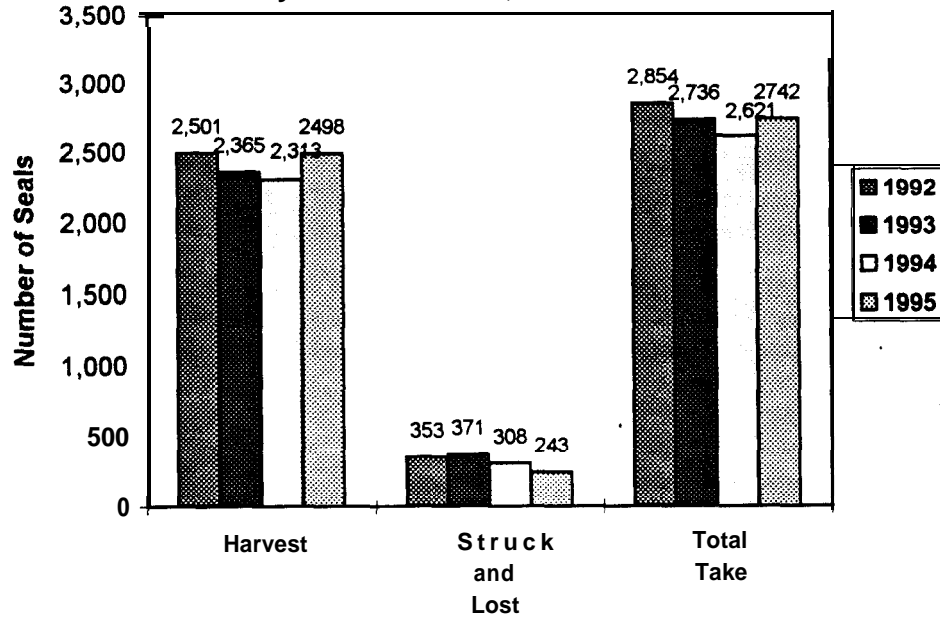
Another favorite food in the Prince William Sound area is roasted harbor seal meat, prepared by *mungyuking* -- an Alutiiq word (*mungyuk*) with an English suffix (-ing). *Mungyuking* is barbecuing freshly killed seal over an open fire, usually by men immediately after they return from hunting. The favorite parts of the seal for roasting are the ribs, but slabs of breast meat are also used. Roasting determines how the seal is butchered. Instead of cutting the seal directly down the middle of the sternum and through the center of the stomach, Alutiiqs in Prince William Sound prefer to make parallel cuts down each side of the seal’s rib cage.

To spread the meat open and expose it to the flames, short slender alder branches are poked through the slab in two places and criss-crossed. A much longer and thicker alder branch is then poked through the meat with the base of the branch braced into the ground on an angle, suspending the meat over the fire (Photograph 1). Alder is preferred over other woods because it is green and tends not to bum as fast as other species. To control the direction of the smoke when there is a breeze, a piece of plywood is often propped up on one side of the fire. The fatty side of the ribs or meat is roasted first. When this side is done, the slab is turned over to roast the meaty side. The ribs and meat are considered done after they turn black from the heat and smoke, which takes several hours and imparts a rich charcoal flavor. A good *mungyuk* requires tending the meat constantly to insure that it does not flame up and bum to a crisp.

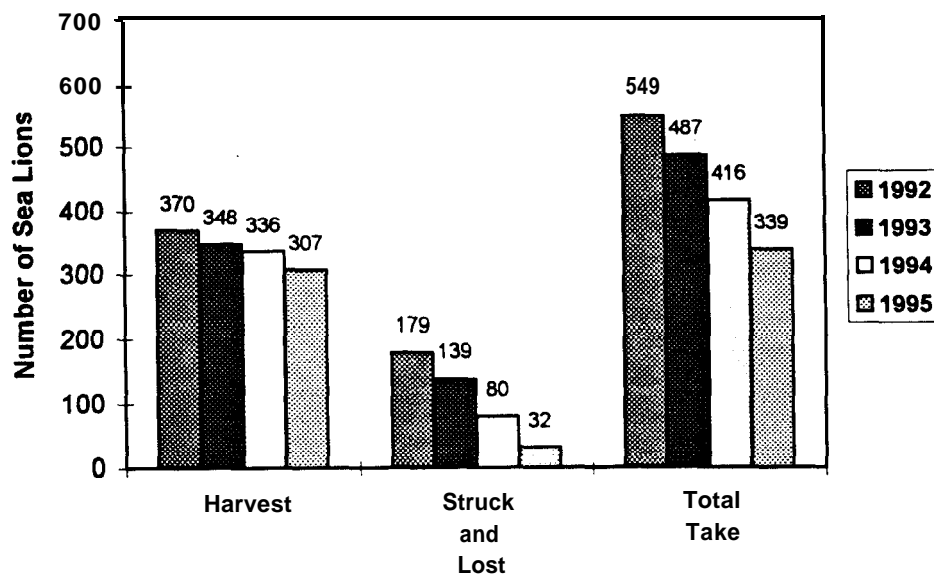
Besides the breast meat and ribs, the liver and kidney of the seal are also roasted over the fire in a shish kabob style. That is, a piece of liver is skewered onto a stick, followed by a piece of fat, followed by a piece of kidney, another piece of fat, and so on. Yet another variation is to smoke the seal lightly on a stick, then wrap it in tinfoil and set it on top of hot coals. This way it will hold its juices and will not dry out.

*Mungyuking* is a cause for family and community celebration, especially during summer months when people love to gather on the beach in front of a bonfire to eat, drink coffee, tell stories, and socialize long into the evening. It is fair to say that **foodways** such as *mungyuk* and *qiluryat* are important markers of Alutiiq social and ethnic identity, and that they connect the essential nutritional value of marine mammals with the continuity of traditional culture.

**Figure 11**  
**Estimated Subsistence Takes of Harbor Seal**  
**by Alaska Natives, 1992 - 1995**



**Figure 12**  
**Estimated Subsistence Takes of Sea Lion**  
**by Alaska Natives, 1992 - 1995**



## DISCUSSION

At the state level, harbor seal takes increased in 1995 after two consecutive years of declines: harbor seal harvests (2,498 seals) and total takes (2,742 seals) in 1995 were the second highest recorded since surveys were started in 1992 (Fig. 11). In addition, hunters reported the lowest number of struck and lost animals (243 seals) in 1995, continuing an apparent declining trend in struck and lost rates for harbor seals -- 12.4 percent (1992), 13.6 percent (1993), 11.8 percent (1994), and 8.9 percent (1995). By contrast, sea lion takes continued to decline at the statewide level -- 549 (1992), 487 (1993), 416 (1994), and 339 (1995), representing a 38.3 percent decline in subsistence takes over a four-year period (see Fig. 12). The subsistence take of sea lions in 1995 was the lowest recorded since surveys started in 1992. A large portion of the decline in total sea lion takes is attributable to declining numbers of struck and lost animals reported by hunters -- 179 (1992), 139 (1993), 80 (1994), and 32 (1995). Similar to harbor seals, struck and lost rates for sea lions have shown marked declines since 1992 -- 32.6 percent (1992), 28.6 percent (1993), 19.2 percent (1994), and 9.5 percent (1995). Not counting struck and lost animals, sea lion harvests have shown a more modest decline of 17.0 percent since 1992 (from 370 to 307 animals) at the statewide level.

As stated in last year's report, the reasons for declining struck and lost rates for harbor seal and sea lion are uncertain. It is possible that hunting conditions generally have been more favorable for retrieving animals since 1992; however, we have not heard this mentioned by hunters. There are few indications that hunters in general have been more reluctant to report struck and lost animals over time to local surveyors, though it is quite possible that this may be the case for some individual hunters. Similarly, there are no indications that local surveyors are not consistently asking the struck and lost questions on the surveys, though this also may be possible in a few

Figure 13. Harbor Seal Take Trends Reported by Alaska Native Hunters by Major Area, 1992-1995

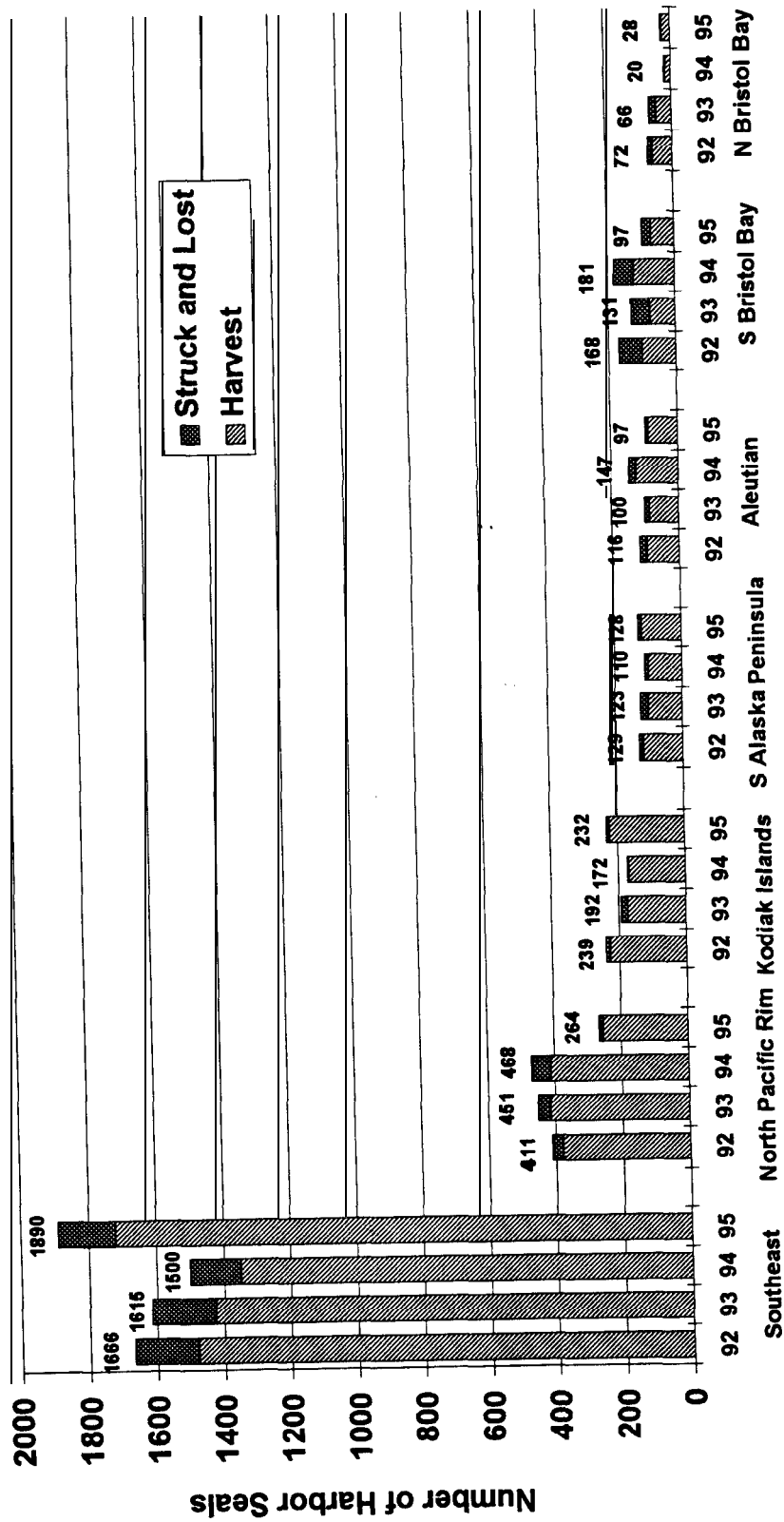
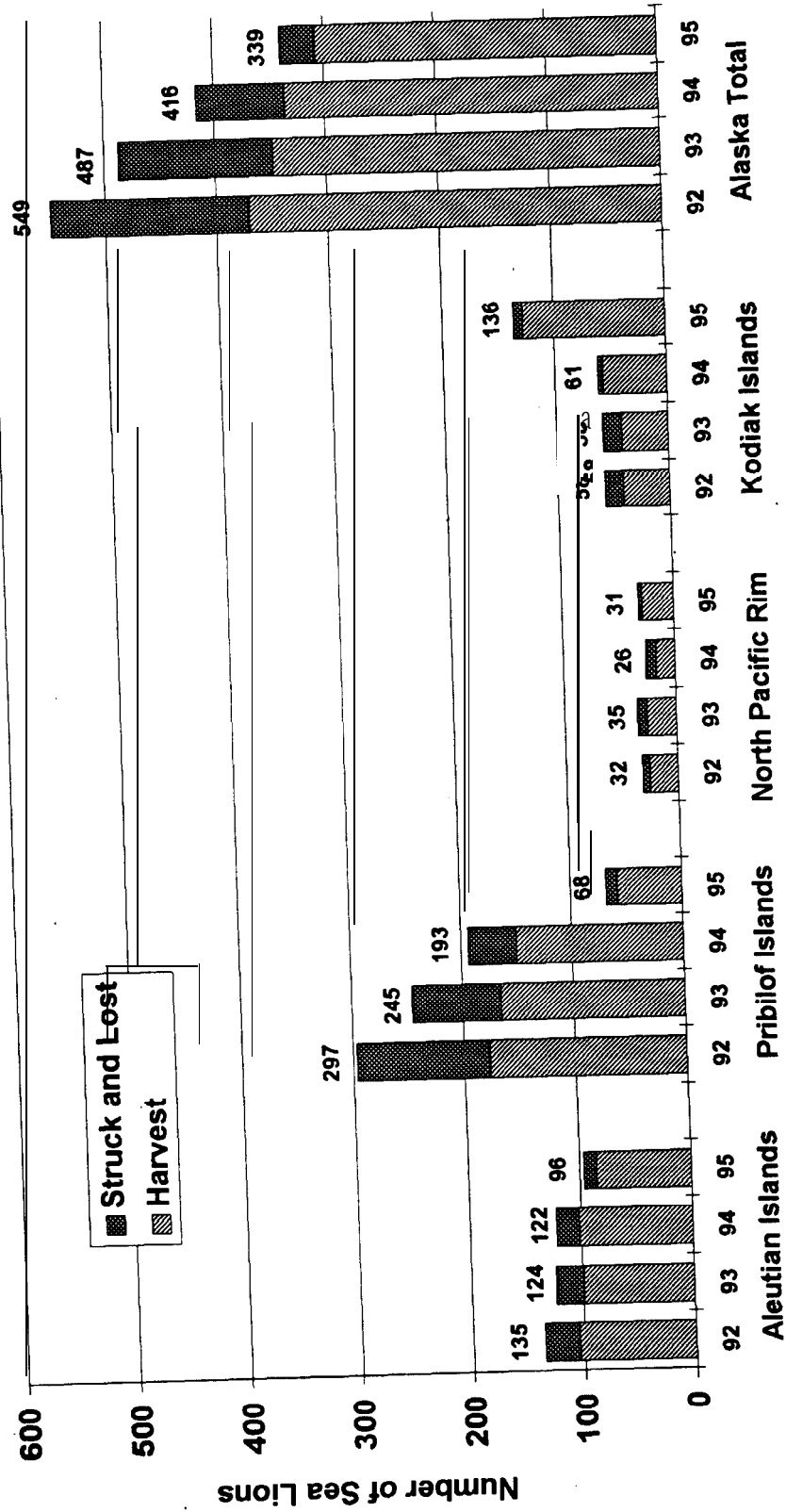


Figure 14. Sea Lion Take Trends  
 Reported by Alaska Native Hunters by Area, 1992-1995



cases. We do know that in general, hunters are increasingly aware of the reports about declining harbor seal and sea lion populations in portions of their ranges in Alaska. It is possible that some hunters are modifying hunting methods in order to ensure better retrieval as a response to the reported population declines, such as taking closer shots, or shooting where water and wind conditions make retrieval more likely. While a few hunters have told surveyors that they are making adjustments like these, we have not gathered any systematic information to know the extent of this generally among hunters. As stated in last years report, hunting guidelines were developed and disseminated on St. Paul and St. George by local hunter organizations,' which may have sensitized hunters there to these matters. The declines in reported struck and lost rates for harbor seal and sea lion statewide may be a result of a combination of factors like these.

With only four years of harvest information, it is difficult to identify “harvest trends” within what may-be a normal pattern of yearly variation in subsistence uses of a region or community. We do not know what might constitute a “high”, “low”, or “average” year for a community until there is a series of years for comparison. Variation in takes at the regional level are depicted in Figs. 13 and 14 and Table 15. No general statements can be made about harvest changes that would apply to all regions. Some region’s harvests were higher in 1995, while others were lower. It is likely that most of these changes represent normal variation in yearly subsistence takes, and represent fluctuations due to seasonal hunting conditions, local food needs, local prey abundance, and personal circumstances of marine mammal hunters.

For instance, harbor seal takes and harvests in southeast Alaska in 1995 were the largest recorded since the project began in 1992. The productive year was due primarily to substantially larger seal takes at Yakutat (695 seals in 1995, compared with 452 seals in 1994) and Klawock (264 seals in 1995, up from 71 seals in 1994). As stated above, high harvesters account for a large portion of the harvest in communities



**Table 15**  
**Subsistence Harbor Seal and Sea Lion Takes by Alaska Natives**  
**By Region, 1992, 1993, 1994, and 1995**

Region	1992			1993			1994			1995		
	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total Harbor Seal Take
Southeast Alaska	1476.8	189.5	1666.2	1425.0	190.0	1615.0	1348.5	151.4	1499.9	1719.1	170.9	1890.0
North Pacific Rim	377.6	33.4	411.0	412.3	38.5	450.8	411.2	56.8	468.0	252.1	11.7	263.9
Upper Kenai-Cook Inlet	51.6	0.0	51.6	49.2	5.6	54.8	16.2	0.0	16.2	3.7	0.0	3.7
Kodiak Island	225.5	13.1	238.6	171.7	20.1	191.8	168.2	3.6	171.7	223.0	9.2	232.2
South Alaska Peninsula	115.5	13.1	128.6	100.0	23.1	123.1	98.6	11.1	109.8	117.0	11.1	128.0
Aleutian Islands	94.3	21.4	115.7	85.0	15.4	100.4	124.9	22.6	147.5	86.9	9.7	96.6
Pribilof Islands	2.3	1.2	3.5	2.3	1.2	3.5	7.3	0.0	7.3	2.5	0.0	2.5
South Bristol Bay	99.0	68.6	167.6	73.6	57.3	130.9	121.6	59.3	180.9	68.3	28.3	96.6
North Bristol Bay	58.4	13.2	71.6	46.1	20.0	66.1	16.2	3.3	19.5	25.9	2.4	28.3
<b>Alaska Total</b>	<b>2501.0</b>	<b>353.4</b>	<b>2854.4</b>	<b>2365.3</b>	<b>371.1</b>	<b>2736.4</b>	<b>2312.8</b>	<b>308.0</b>	<b>2620.8</b>	<b>2498.5</b>	<b>243.3</b>	<b>2741.8</b>

Region	1992			1993			1994			1995		
	Sea Lion Harvested	Sea Lion Struck and Lost	Total Sea Lion Take	Sea Lion Harvested	Sea Lion Struck and Lost	Total Sea Lion Take	Sea Lion Harvested	Sea Lion Struck and Lost	Total Sea Lion Take	Sea Lion Harvested	Sea Lion Struck and Lost	Total Sea Lion 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
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
Upper Kenai-Cook Inlet	5.7	3.8	9.5	7.8	3.3	11.1	1.4	0.0	1.4	0.0	0.0	0.0
Kodiak Island	41.5	16.3	57.8	41.5	16.9	58.4	57.1	4.2	61.3	127.9	7.7	135.7
South Alaska Peninsula	2.4	0.0	2.4	4.6	1.2	5.7	4.6	1.1	5.7	8.1	0.0	8.1
Aleutian Islands	104.3	30.9	135.2	99.0	24.8	123.8	101.8	20.5	122.3	85.0	11.1	96.1
Pribilof Islands	176.6	120.2	296.8	165.4	80.0	245.4	149.8	43.5	193.3	57.6	10.3	67.9
South Bristol Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
North Bristol Bay	7.8	0.0	7.8	3.3	3.3	6.5	1.2	0.0	1.2	0.0	0.0	0.0
Lake Iliamna	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Alaska Total</b>	<b>369.8</b>	<b>178.9</b>	<b>548.8</b>	<b>347.8</b>	<b>139.3</b>	<b>487.1</b>	<b>336.0</b>	<b>80.1</b>	<b>416.1</b>	<b>307.1</b>	<b>32.1</b>	<b>339.2</b>

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.

**Table 16**  
**Subsistence Harbor Seal Takes by Alaska Natives**  
**By Community, 1992, 1993, 1994, and 1995**

Community	1992 1992			1993 1993			1994 1994			1995 1995		
	Harbor Seal Harvested	Harbor Seal Stuck	Harbor Seal Total	Harbor Seal Harvested	Harbor Seal Struck	Harbor Seal Total	Harbor Seal Harvested	Harbor Seal Struck	Harbor Seal Total	Harbor Seal Harvested	Harbor Seal Struck	Harbor Seal Total
<b>SOUTHEAST ALASKA</b>												
Angoon	125.1	28.9	154.0	56.6	9.9	66.5	66.9	21.1	88.0	60.9	9.7	90.6
Craig	74.2	0.0	74.2	51.1	9.8	60.9	42.7	6.8	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	108.6	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	5.8	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	51.4	625.8	417.1	35.0	452.1	615.5	79.6	695.1
<b>NORTH PACIFIC RIM</b>												
Chenega Say	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	4.8	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	178.8	46.1	2.6	46.7
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
<b>UPPER KENAICOOK INLET</b>												
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	4.6	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				-	-	-			
<b>KODIAK ISLAND</b>												
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 16, (Continued)**  
**Subsistence Harbor Seal Takes by Alaska Natives**  
**By Community, 1992, 1993, 1994, and 1995**

Community	1992			1993			1994			1995		
	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total Harbor Seal Take
<b>SOUTH ALASKA PENINSULA</b>												
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	12.6	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
<b>ALEUTIAN ISLANDS</b>												
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			
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
<b>PRIBILOF ISLANDS</b>												
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
<b>SOUTH BRISTOL BAY</b>												
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	10.6	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
<b>NORTH BRISTOL BAY</b>												
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

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.

**Table 17**  
**Subsistence Sea Lion Takes by Alaska Natives**  
**By Community, 1992, 1993, 1994, and 1995**

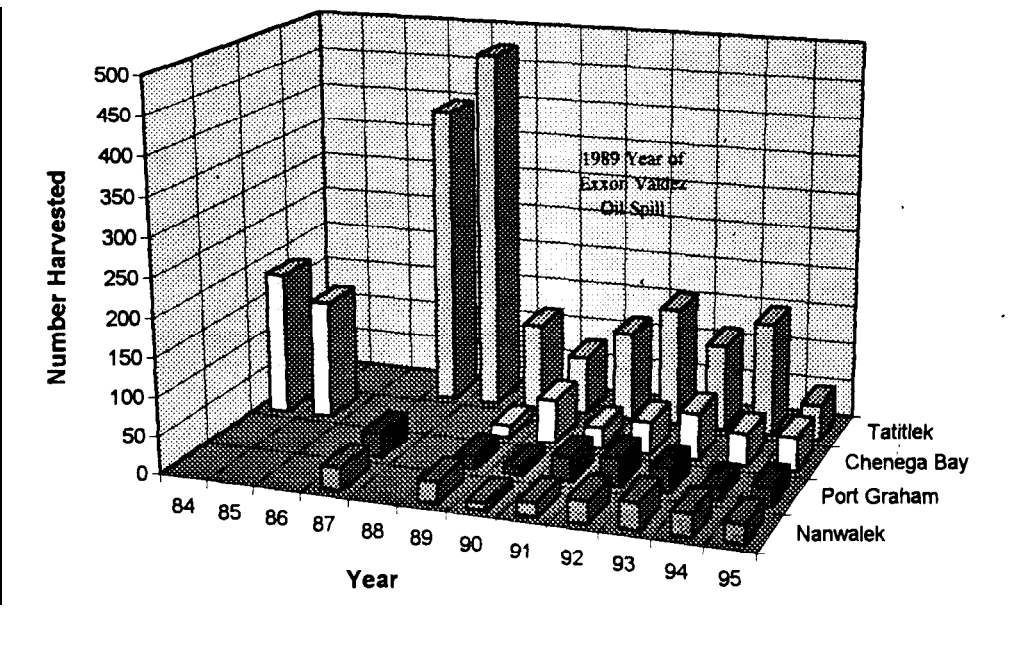
Community	1992			1993			1994			1995		
	1992 Sea Lion Harvested	sea Lion Struck and Lost	1992 Total Sea Lion Take	1993 Sea Lion Harvested	Sea Lion Struck and Lost	1993 Total Sea Lion Take	1994 Sea Lion Harvested	Sea Lion Struck and Lost	1994 Total Sea Lion Take	1995 Sea Lion Harvested	Sea Lion Struck and Lost	1995 Total Sea Lion Take
<b>SOUTHEAST ALASKA</b>												
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
<b>NORTH PACIFIC RIM</b>												
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
Tatiilek	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
<b>UPPER KENAI-COOK INLET</b>												
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							--	--	--
<b>KODIAK ISLAND</b>												
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
OM 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 17, (Continued)**  
**Subsistence Sea Lion Takes by Alaska Natives**  
**By Community, 1992, 1993, 1994, and 1995**

Community	1992	1992	1992	1993	1993	1993	1994	1994	1994	1995	1995	1995
	sea	Sea		Sea	Sea		Sea	sea		sea	Sea	
	Lion	Struck	Lion	Lion	Struck	Lion	Lion	Struck	Lion	Lion	Struck	Lion
	Harvested	and Lost	Take	Harvested	and Lost	Take	Harvested	and Lost	Take	Harvested	and Lost	Take
<b>SOUTH ALASKA PENINSULA</b>												
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
Fake 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
<b>ALEUTIAN ISLANDS</b>												
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			
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
<b>PRIBILOF ISLANDS</b>												
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	228.8	161.7	65.2	226.8	147.0	26.4	173.4	53.6	6.3	59.9
<b>SOUTH BRISTOL BAY</b>												
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
<b>NORTH BRISTOL BAY</b>												
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
<b>LAKE ILIAMNA</b>												
Iliamna	1.3	0.0	1.3									
Newhalen	0.0	0.0	0.0									

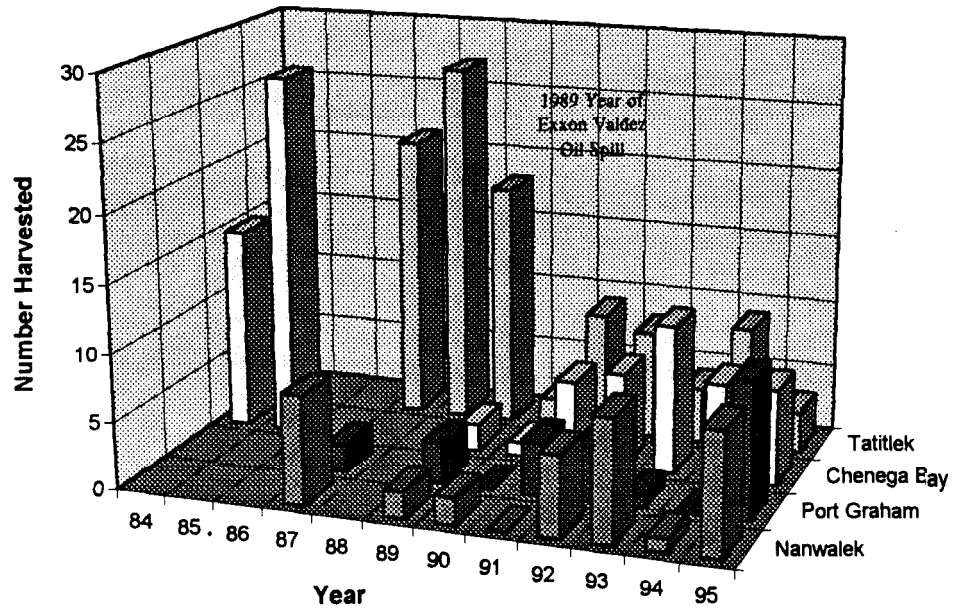
Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1996.

**Figure 15**  
**Change in Harbor Seal Harvests,**  
**North Pacific Rim Communities**



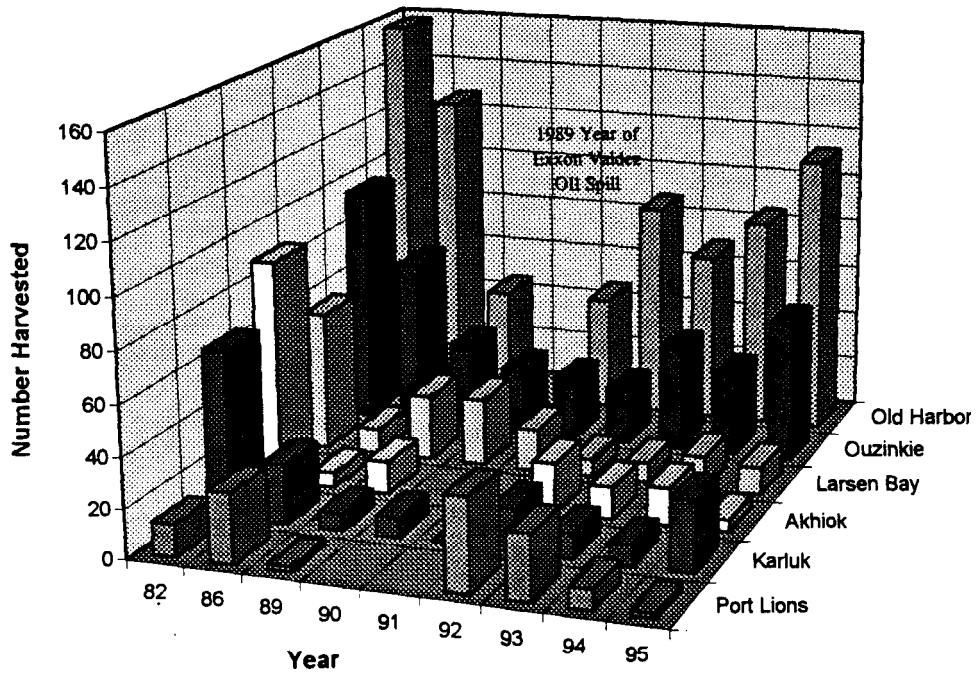
HARBOR SEAL HARVESTS				
Year	Nanwalek	Port Graham	Chenega Bay	Tatitlek
84			186	
85			154	
86				
87	29	32		393
88				473
89	27	17	16	113
90	9	10	57	76
91	18	30	28	114
92	28	36	43	153
93	34	31	61	111
94	29	16	42	146
95	24	23	44	46

**Figure 16**  
**Change in Sea Lion Harvests,**  
**North Pacific Rim Communities**



SEA LION HARVESTS				
Year	Nanwal ek	Pon Graham	Chenega Bay	Tatilek
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

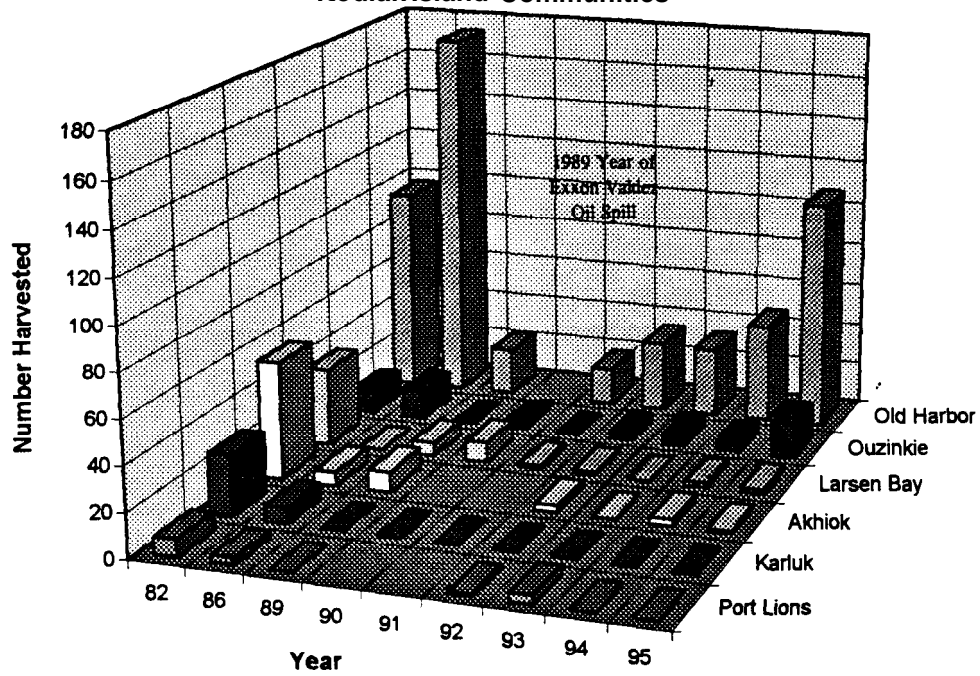
**Figure 17**  
**Changes in Harbor Seal Harvests,**  
**Kodiak Island Communities**



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



**Figure 18**  
**Changes in Sea Lion Harvests,**  
**Kodiak Island Communities**



SEA LION HARVESTS						
	Port Li ons	Karl uk	Akhi ok	Larsen Bay	Ouzi nki e	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

like Yakutat and Klawock. Community totals are sensitive to the hunting activities of a small number of hunters. In Klawock there have been two highly productive hunters producing the majority of seals for the community in recent years; they both had larger takes in 1995 compared with previous years. The reasons for increases or decreases in seal takes in communities like Yakutat and Klawock are undoubtedly determined in part by the individual circumstances of the community's highly productive hunters. As stated above, the seal takes documented at Yakutat and Klawock in 1995 may fall within the normal range of variation of subsistence harvests for the communities.

For harvests in two regions -- the North Pacific Rim and Kodiak Island -- a longer time series is available, shown as Figures 15-18 (struck and lost numbers are not available prior to 1992). In the North Pacific Rim, subsistence harvests of harbor seal increased between 1992 and 1994, reflecting a rebound of subsistence hunting following the depression of subsistence activities triggered by the *Exxon Valdez* oil spill in Prince William Sound in 1989. Families 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 have shown signs of recovery since the spill, although seal harvests have not returned to prespill levels in Chenega Bay and Tatitlek (Fig. 15). Total seal harvests in the North Pacific Rim fell in 1995, due primarily to a decreased harvest at Tatitlek (Fig. 15). Sea lion harvests have been more stable over the last four years for the area, compared with harbor seal (Fig. 16)

In the Kodiak Island area, seal harvests in 1995 (214 seals) were lower than those recorded a decade before -- 478 seals in 1982 and 262 seals in 1986 (Fig. 17). Sea lion harvests in 1995 (126 sea lions) were also lower than recent historic levels -- 232 sea lions in 1982 and 202 sea lions in 1986 (Fig. 18). In this case, sea lion and harbor seal harvests appear to have been declining during the 1980s, but have been increasing again during the 1990s at Old Harbor and Ouzinkie. In four other communities, harvests have remained low and somewhat variable during the 1990s.

While the harvests in 1995 at Old Harbor and Ouzinkie were the largest documented since 1992, they have not yet matched harvest levels recorded during the early 1980s.

At the regional level, the most notable apparent trends are the declines in sea lion takes on the Pribilof Islands (Fig. 14), where total reported sea lion takes have fallen from 297 to 68 animals between 1992 to 1995 (a 77.1 percent decrease). Reported sea lion harvests on the Pribilof Islands have declined from 177 to 58 animals between 1992 to 1995 (a 67.4 percent decrease) (see Appendix B, Table 7). The largest reduction in harvests occurred in 1995, when harvests fell to 58 animals from 150 in 1994. The percentage of households who reported hunting sea lion during the survey year also has declined on St. Paul: 57.1 percent of households (1992), 35.3 percent (1994), and 21.7 percent (1995) (there was no survey in 1993).

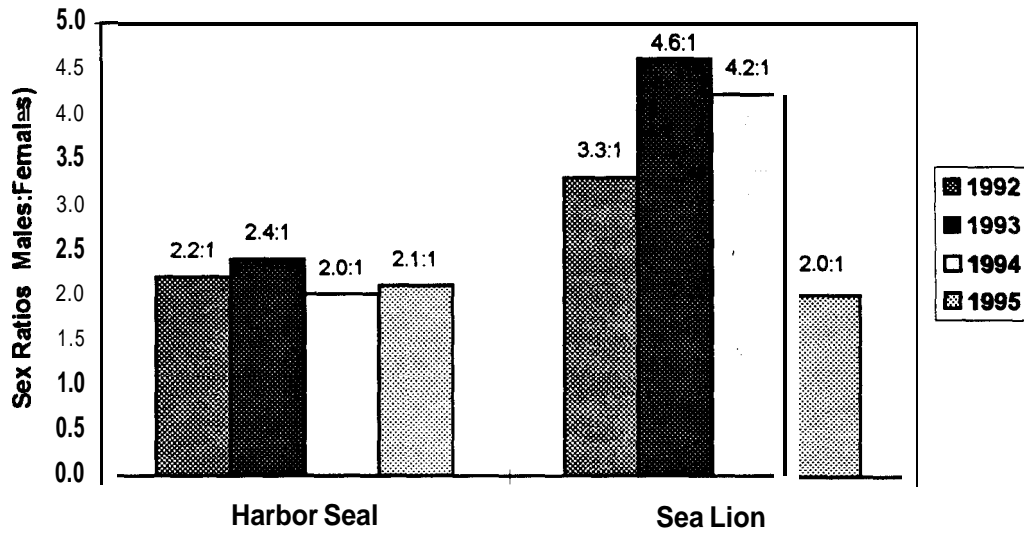
There are probably a number of factors related to the declining subsistence harvests of sea lions on the Pribilof Islands between 1992 and 1995. Hunters attending the Pribilof Islands Joint Management Board in August 1996 stated that ice conditions in the winters of 1994-95 and 1995-96 were responsible in part for the large single-year decline in sea lion harvests during calendar year 1995. In both winters, the Bering Sea ice pack moved more to the south than usual. Pack ice surrounded portions of St. Paul and St. George islands during winter and spring, a relatively atypical event in recent years. Hunters reported that the ice pack pushed sea lion groups away from the islands. There were fewer groups of sea lions passing by the islands because there was less open water. Only a few sea lions were seen among the leads and floes. These ice conditions probably account for the substantial drop in reported harvests during 1995. Increased seasonal employment was a second factor mentioned by the Pribilof Islands Joint Management Board. Some hunters on St. Paul and St. George may have hunted less in 1995 because of relatively more employment on airport construction projects during winter and spring. Some hunters may have

reduced their time hunting sea lions from the bluffs evenings and weekends because of the longer hours of seasonal employment.

Figures 19 and 20 compare statewide patterns in the age and sex composition of the subsistence harvests of harbor seals and sea lions over the four year survey period. At the statewide level, hunters continued to report harvesting more male than female harbor seals in 1995. Considering kills of known sex, male to female sex ratios have been similar between all four survey years for harbor seal (2.2 to 1 in 1992, 2.4 to 1 in 1993, 2.0 to 1 in 1994, and **2.1:1** in 1995) (see Fig. 19). For sea lion, male to female sex ratios in 1995 unaccountably declined from previous years (3.3 to 1 in 1992, 4.6 to 1 in 1993, 4.2 to 1 in 1994, and **2.0:1** in 1995). At the statewide level, age composition is relatively similar between years (Fig. 26): hunters continued to report harvesting primarily adult harbor seals and primarily juvenile sea lions.

Figures 21 and 22 compare composition data for harbor seals at the regional level. There is considerable similarity between regions and years for harbor seal sex composition, shown in Fig. 21. Counting all harvested animals whose sex was reported between 1992-95, the regions all showed more males to females harvested -- Southeast (67 percent males), North Pacific Rim (72 percent males), Kodiak Island (67 percent males), South Alaska Peninsula (78 percent males), Aleutian Islands (70 percent males), and Bristol Bay (73 percent males; this combines north and south Bristol Bay to increase the number of observations). Why substantially more males than females are consistently taken across years and regions is an interesting question, when it is probably the case that slightly more females than males are present in the general harbor seal population (Hoover 1988: 129-130). Some hunters report a selection preference for males over females when hunting during late spring through summer, to avoid taking females carrying large fetuses or nursing pups (Wolfe et al. 1994). The higher number of males harvested also probably reflects the greater proportion of males in the groups of animals available to hunters. In some areas,

**Figure 19**  
**Sex Ratios (Males:Females)**  
**of Harbor Seal and Sea Lion Harvests**  
**Reported by Alaska Native Hunters, 1992 - 1994**



**Figure 20**  
**Age Structure (Pups, Juveniles, Adults)**  
**of Harbor Seal and Sea Lion Harvests**  
**Reported by Alaska Native Hunters, 1992 - 1995**

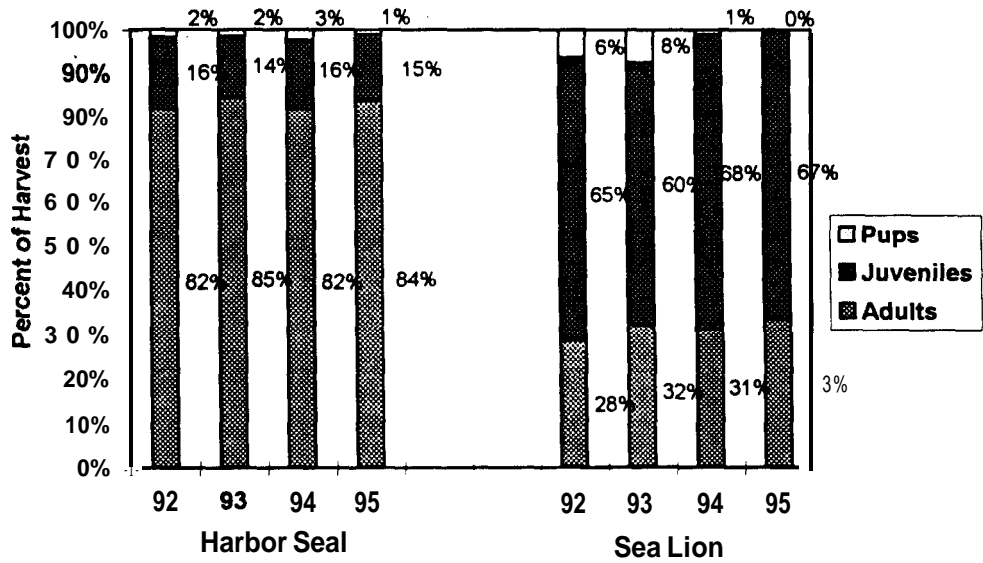


Figure 21. Percent of Harbor Seal Harvests Reported as Male Seals by Hunters, 1992 - 1995

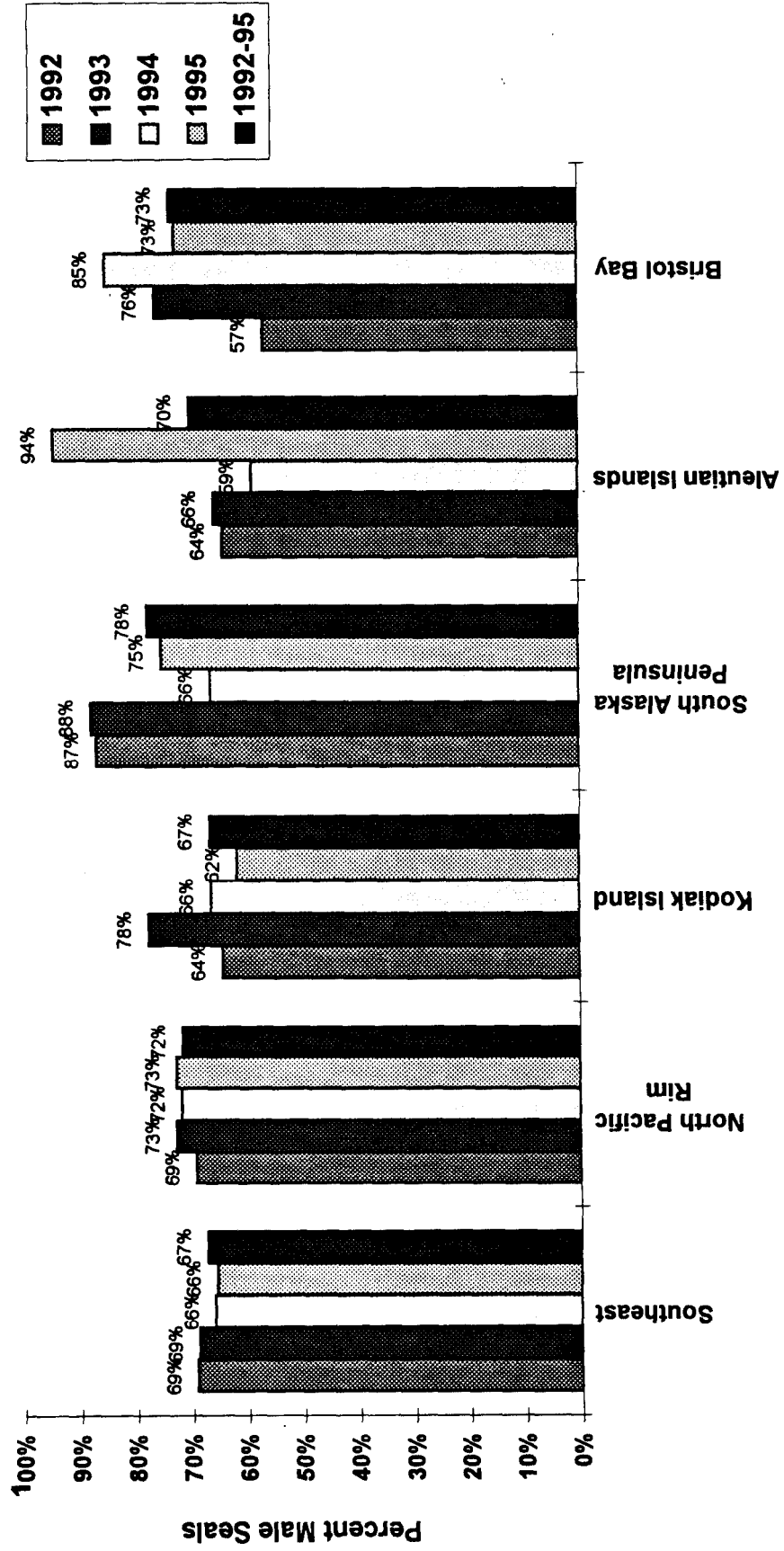
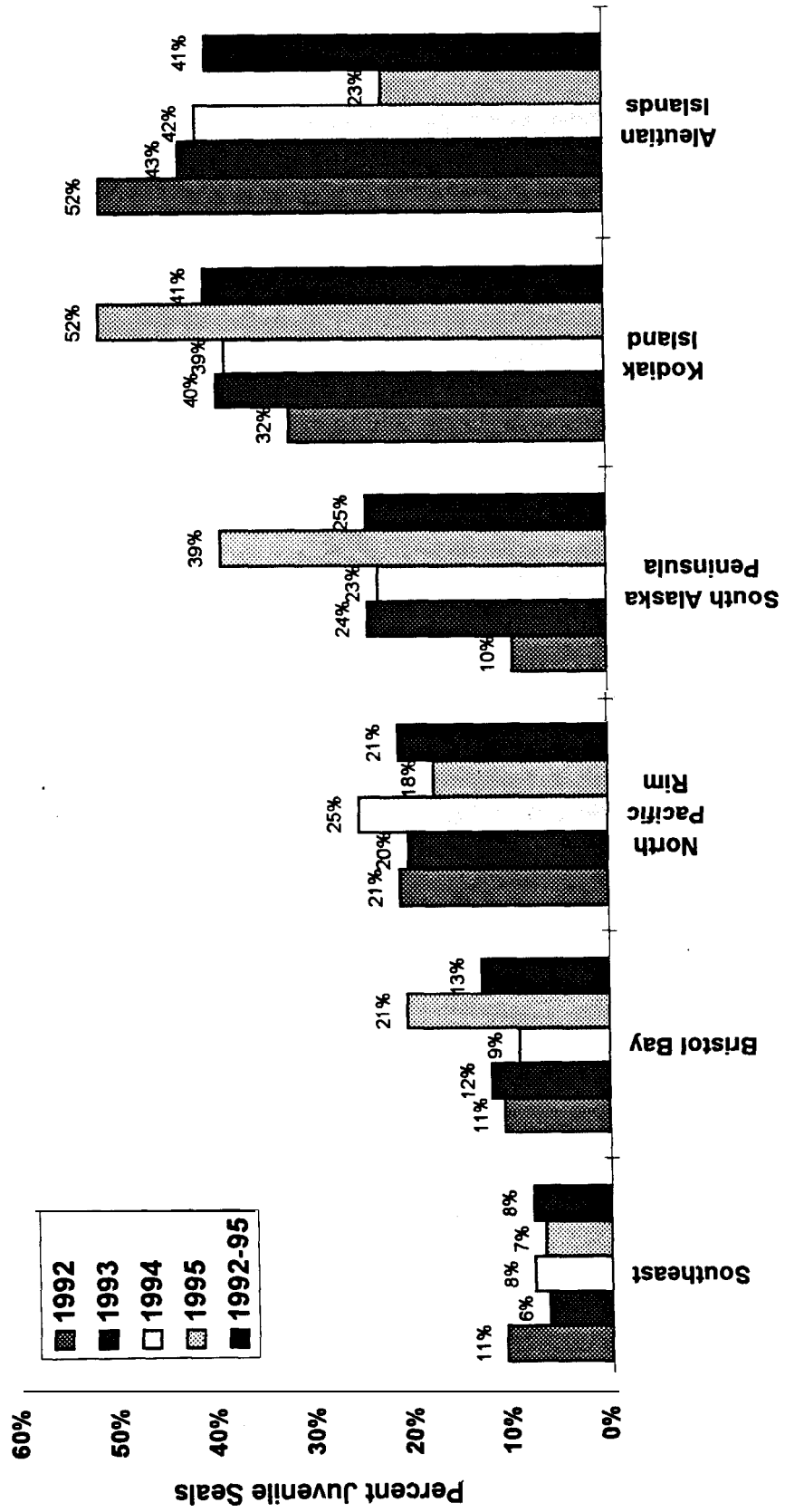


Figure 22. Percent of Harbor Seal Harvests Reported as Juvenile Seals by Hunters, 1992 - 1995



hunters report that groups of males segregate from females during the year -- older males are found feeding outside of bays while females and their young are found feeding in shallower inside waters (Wolfe et al. 1994). The greater proportion of harvested males may reflect the sex composition of segregated seal groups which hunters encounter. In addition, in some hunting contexts, hunters select a seal swimming among groups of animals reacting to the presence of the hunter. In these situations, female seals as a whole may be more cautious than male seals when disturbed, presenting comparatively fewer or more difficult targets. More information from expert hunters about local hunting patterns and seal ecology may untangle the relative importance of these factors. Whatever the particular mix of variables influencing sex composition, the predominance of males over females in the subsistence harvest of harbor seals is fairly consistent across regions and years.

By contrast, the age composition of the subsistence harvest of harbor seals varies substantially between regions and present a more complex puzzle (Fig. 22). 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 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 percent of adults and juveniles differed markedly between regions (Fig. 22). Of all the seals harvested between 1992-95 in the Southeast Region, only 8 percent were juvenile seals. This differs substantially from harvests in the Kodiak Islands and the Aleutian Islands -- in each region, 41 percent of harvested seals were reported to be juvenile seals during



**1992-95.** The age composition of harvests for the North Pacific Rim (21 percent juveniles) and the South Alaska Peninsula (25 percent juveniles) fall between the Southeast and Kodiak-Aleutian regions. The age composition from Bristol Bay (13 percent juveniles) is most similar to that from the Southeast Region.

Factors that may affect regional age compositions include preferences by hunters for juveniles or adults, the age composition of seal groups which are hunted, and the age composition of the regional seal population. There is little to suggest that hunter preferences could account for such large differences between regions. Some hunters report preferences for small or medium-sized seals because the meat is more tender, the skins are in better condition, and they are easier to handle in a skiff. Other hunters declare a preference for larger seals for greater yields of oil and meat or larger skins. However, these types of preferences have been mentioned by some hunters in all regions and are not thought to vary substantially between regions. It is possible that there are regional differences in the behavior of juvenile seals that make them more susceptible to being taken by hunters of some regions; however, we do not know what those **behavioral** features might be. While age segregation occurs within seal groups according to hunters, we have no information to suggest that patterns of age segregation differs substantially between regions to account for the regional differences in age composition of the harvest.

The regional differences in age composition of harvested seals most likely reflect differences in the age composition of regional seal populations in Alaska. That is, hunters in the Kodiak Islands and Aleutian Islands are encountering seal groups with a greater proportion of small, young seals than are hunters in Southeast Alaska. Under these circumstances, more small, young seals are being harvested.

Little published information exists on the age composition of North Pacific harbor seal populations, and the few scientific collections are relatively old and were subject to sampling biases at the time they were collected (Hoover **1988:130**). Based

on a sample of seals taken in British Columbia in 1964-68 (245 seals), the population was estimated to contain 20.7 percent pups (less than 6 months of age), 18.8 percent yearlings, 10.4 percent 2-year-olds, 8.7 percent 3-year-olds, 8.7 percent **4-year-olds**, and 32.7 percent 5 years or more (Biggs 1969:4, 25-26; the specimens were collected as dispersed and swimming individuals along coastal reefs, small islands, and inlets, and not from **haulout** concentrations at large river mouths and mud flats). In a sample of seals taken in the Gulf of Alaska in 1978 (574 seals), 9.2 percent were pups, 6.8 percent were yearlings, 7.8 percent were 2-year-olds, 6.4 percent were 3-year-olds, 9.2 percent were **4-year-olds**, and 60.5 percent were 5 or more years; however, the authors state that the collection did not accurately represent age structures of the population below about 4 years of age, because young seals were deliberately **under-sampled** in order to obtain specimens of breeding seals (Pitcher and **Caulkins** 1979:38-39; the areas sampled stretched from Yakutat to the Alaska Peninsula). There have not been any more recent large collections in Alaska seal populations with which to compare the age compositions reported by subsistence hunters.

If the age differences in regional subsistence harvests reported by hunters do reflect differences in population structures, and if these differences can be linked to seal population dynamics, then the age composition data from subsistence harvests might be a source of information for developing useful indices of the relative condition of regional seal populations. For instance, recent trend counts suggest that Southeast seal populations are relatively abundant and stable or increasing, while Gulf of Alaska populations are depressed, with declines slowing and possibly stopped or reversed in some areas (Lewis, Pendleton, Pitcher, and Wynne 1996:21). Are the older ages of harvested seals in the Southeast and Bristol Bay regions, as reported by subsistence hunters, characteristic of relatively large and stable seal populations, because of proportionately larger older age classes in the population? Similarly, are the younger ages of seals harvested in the Kodiak and Aleutian regions characteristic of relatively

depressed populations responding to changing environmental conditions, because the populations contain proportionately larger young age classes? Do the ages of harvested seals in the North Pacific Rim and South Alaska Peninsula region suggest population compositions intermediate between the Southeast-Bristol Bay and **Kodiak-Aleutian** seal populations? These relationships are speculative at this point without additional information; however, they appear to be fruitful areas for future inquiry. While short-term changes in the overall size of the subsistence harvest may not be direct indicators of seal population status, the age composition information reported by hunters may provide some useful markers for assessing the health of regional seal populations, if these can be linked with population dynamics of marine mammals.



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**APPENDIX A**  
**SURVEY INSTRUMENT USED**  
**IN HOUSEHOLD INTERVIEWS, 1995**

**The Subsistence Harvest of Harbor Seal and Sea Lion by Alaska Natives in 1995**, by Robert J. Wolfe and Craig Mishler, Technical Paper No. 238, Division of Subsistence, Alaska Department of Fish and Game, Juneau, September 1996. Final Report For Year Four, Subsistence Study and Monitor System (No. 50ABNF200055), National Marine Fisheries Service.





ARE ANY MEMBERS OF YOUR HOUSEHOLD ALASKA NATIVES?  
 YES: \_\_\_\_\_ NO: \_\_\_\_\_ THANK YOU FOR YOUR COOPERATION.  
 This survey is only relevant to Native households.

CHECK IF APPROPRIATE	
No Contact Round 1	
No Contact Round 2	

How many people lived in your household in 1995?  
 \_\_\_\_\_  
 FOR ANCHORAGE ONLY: Where did you hunt? \_\_\_\_\_ ( \_\_\_\_\_ )

**HARBOR SEAL**

DID YOU OR MEMBERS OF YOUR HOUSEHOLD HUNT OR USE HARBOR SEALS IN 1995?

YES \_\_\_\_\_ NO \_\_\_\_\_  
 (IF YES, PLEASE COMPLETE THE FOLLOWING QUESTIONS:) (IF NO, GO TO SEA LION PAGE.)

- During 1995, 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?

HARBOR SEAL (Detail)	[Enter the numbers by month.]												TOTAL	
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		UNKNOWN
ADULT														
MALE														
FEMALE														
UNKNOWN														
JUVENILE														
MALE														
FEMALE														
UNKNOWN														
PUP														
MALE														
FEMALE														
UNKNOWN														
UNKNOWN AGE														
MALE														
FEMALE														
UNKNOWN														

During 1995, 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 STRUCK AND LOST	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	UNKNOWN	TOTAL

Community: \_\_\_\_\_ ( \_\_\_\_\_ ) HHID: \_\_\_\_\_ LIST: Hunter Random Interviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**SEA LIONS**  
**DID YOU OR MEMBERS OF YOUR HOUSEHOLD HUNT OR USE SEA LIONS IN 1995?**

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

During 1995, did you or your household:

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?

Yes No


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														
MALE														
FEMALE														
UNKNOWN														

During 1995, 9. How many sea lions were struck and lost by your household? [Enter number ... in total] \_\_\_\_\_

10. In which months were they struck and lost? [Enter numbers by month.]

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

THANK YOU FOR YOUR COOPERATION.

Community: \_\_\_\_\_ ( ) HHID: \_\_\_\_\_ LIST: Hunter Random Interviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**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, 1995**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Native Households	600	525	1125
	Surveyed Households	496	36	532
	Sampling Fraction	82.7%	6.9%	47.3%
	Sample Household Members	1756	108	1864
	Estimated Household Members	2121.1	1575.0	3702.1

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>	
	See Harbor			
	<u>Lion</u>	<u>Seal</u>	<u>Lion</u>	<u>Seal</u>
Used	N/A	N/A	Total Number Harvested	0.0 1719.1
Hunted	N/A	N/A	Total Number Struck and Lost	0.0 170.9
Harvested	N/A	N/A	Total Number Taken	0.0 1090.0
Received	N/A	N/A		
Gave Away	N/A	N/A	Number Harvested Per Capita	N/A N/A

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum Take (%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	144	154	154	121	93	29	39	20	63	103	133	162	105	1408
Struck & Lost	7	16	44	20	2	2	3	4	0	5	0	5	23	139
Total Take	151	170	190	141	95	31	42	32	63	108	141	167	200	1547
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	192.0	196.9	103.1	147.3	110.0	32.7	46.6	34.0	74.6	122.9	160.4	202.3	217.3	1719.1
Struck & Lost	12.2	21.4	52.0	21.9	2.4	2.2	3.5	4.5	0.0	6.4	9.9	7.5	26.9	170.9
Total Take	204.2	217.3	235.1	169.2	112.4	34.9	50.1	38.6	74.6	129.3	170.3	209.9	244.3	1890.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	196.3	203.5	210.3	171.9	145.4	37.5	56.9	44.5	88.8	140.1	107.4	220.5		1719.1
Struck & Lost	12.2	21.4	72.4	24.3	3.0	2.2	4.1	5.7	0.0	7.0	10.5	0.1		170.9
Total Take	200.5	224.9	290.6	196.2	140.4	39.7	61.0	50.2	00.0	147.1	197.9	236.6		1090.0
Total Take (%)	11.0%	11.9%	15.4%	10.4%	7.9%	2.1%	3.2%	2.7%	4.7%	7.0%	10.5%	12.5%		100.0%
Cum. Take	200.5	433.4	724.0	920.2	1068.6	1108.4	1169.4	1219.6	1308.4	1455.5	1653.4	1890.0		
Cum Take (%)	11.0%	22.9%	38.3%	40.7%	56.5%	50.6%	61.9%	64.5%	69.2%	77.0%	07.5%	100.0%		

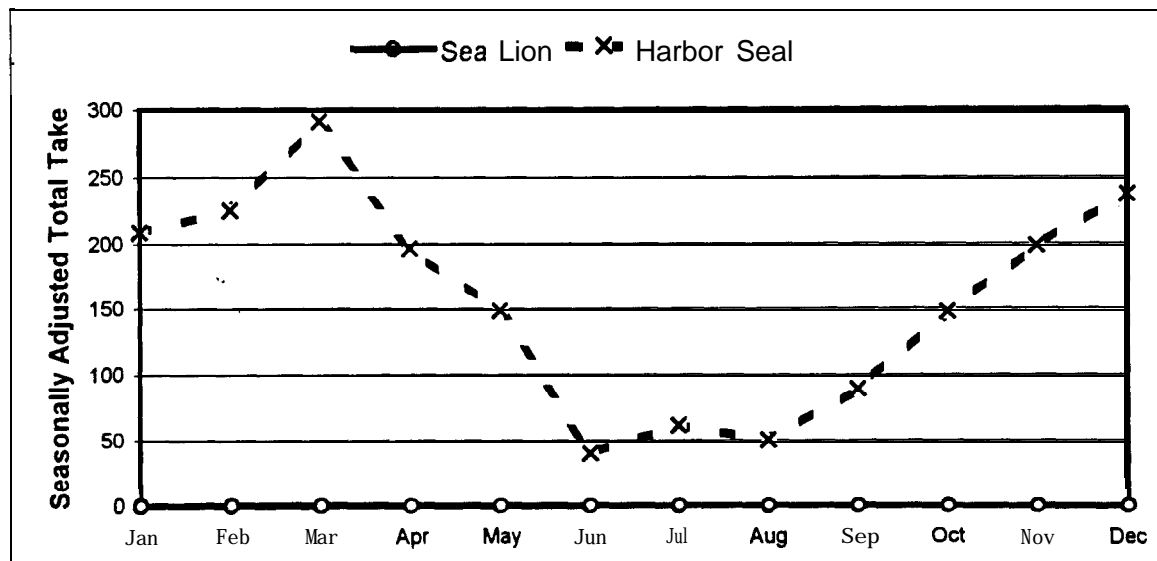
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

**Table 1. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTHEAST ALASKA, 1995**

*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	--	657	46.7%	793.6	46.2%
Adult Female	0	--	0.0	--	346	24.7%	426.0	24.0%
Adult Unknown Sex	0	--	0.0	--	230	<b>16.9%</b>	279.9	16.3%
Juvenile Male	0	--	0.0	--	63	4.5%	77.7	4.5%
Juvenile Female	0	--	0.0	--	10	1.3%	20.5	<b>1.2%</b>
Juvenile Unknown Sex	0	--	0.0	--	<b>8</b>	0.6%	11.3	0.7%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	1	0.1%	1.1	0.1%
Pup Unknown Sex	0	--	0.0	--	5	0.4%	0.0	0.5%
Male Unknown Age	0	--	0.0	--	21	1.5%	25.0	1.5%
Female Unknown Age	0	--	0.0	--	<b>18</b>	1.3%	22.5	1.3%
Unknown Sex and Age	0	--	0.0	--	31	2.2%	51.9	3.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>1406</b>	<b>100.0%</b>	<b>1719.1</b>	<b>100.6%</b>

*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	169.5	1666.2
1993	0.0	1.1	1.1	1993	1425.0	190.0	1615.0
1994	3.5	1.1	4.6	1994	1346.5	151.4	1499.9
1995	0.0	0.0	0.0	<b>1995</b>	<b>1719.1</b>	<b>170.9</b>	<b>1890.0</b>

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, 1995**

SAMPLING DESIGN:		Active	Other	Total
MIXED	Total Native Households	44	540	584
	Surveyed Households	42	212	254
	Sampling Fraction	95.5%	39.3%	43.5%
	Sample Household Members	135	637	772
	Estimated Household Members	143.2	1522.3	1665.6

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	14.6%	39.7%	Total Number Harvested	28.4	252.1
Hunted	4.4%	12.6%	Total Number Struck and Lost	3.0	11.7
Harvested	2.7%	9.9%	Total Number Taken	31.4	263.9
Received	13.5%	34.8%			
Gave Away	4.1%	11.2%	Number Harvested Per Capita	0.02	0.15

SEA LION HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	6	4	0	3	0	1	0	0	0	2	4	2	n
Struck & Lost	0	0	2	0	1	0	0	0	0	0	0	0	0	3
Total Take	3	6	6	0	4	0	1	0	0	0	2	4	2	28
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.3	6.1	4.0	0.0	3.1	0.0	1.0	0.0	0.0	0.0	2.0	5.3	2.6	28.4
Struck & Lost	0.0	0.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
Total Take	4.3	6.1	6.0	0.0	4.1	0.0	1.0	0.0	0.0	0.0	2.0	5.3	2.6	31.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.5	6.3	4.2	0.2	3.3	0.2	1.2	0.2	0.2	0.2	2.2	5.5		20.4
Struck & Lost	0.0	0.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		3.0
Total Take	4.5	6.3	6.2	0.2	4.3	0.2	1.2	0.2	0.2	0.2	2.2	5.5		31.4
Total Take (%)	14.4%	19.9%	19.8%	0.7%	13.7%	0.7%	4.0%	0.7%	0.7%	0.7%	7.1%	17.6%		100.0%
Cum. Take	4.5	10.8	17.0	17.2	21.5	21.8	23.0	23.2	23.4	23.7	25.9	31.4		
Cum. Take (%)	14.4%	34.4%	54.1%	54.0%	68.5%	69.2%	73.2%	73.9%	74.6%	75.3%	80.2%	84.4%		100.0%

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	22	14	10	2	2	10	11	12	4	18	26	16	32	179
Struck & Lost	1	2	1	0	0	2	0	0	0	4	0	0	0	10
Total Take	23	16	11	2	2	12	11	12	4	22	26	16	32	189
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	23.1	24.2	12.7	2.4	1.82	30.3	12.1	14.1	4.3	22.1	28.0	18.4	42.3	252.1
Struck & Lost	1.1	2.0	1.6	0.0	0.0	2.6	0.0	0.0	0.0	4.4	0.0	0.0	0.0	11.7
Total Take	24.1	26.2	14.3	2.4	1.82	33.0	12.1	14.1	4.3	26.4	28.0	18.4	42.3	263.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	23.2	24.6	13.2	3.4	1.82	42.4	23.5	14.5	8.1	28.3	33.1	19.7		252.1
Struck & Lost	1.1	2.0	1.6	0.0	0.0	2.6	0.0	0.0	0.0	4.4	0.0	0.0		11.7
Total Take	24.3	26.6	14.9	3.4	1.82	45.0	23.5	14.5	8.1	32.7	33.1	19.7		263.9
Total Take (%)	9.2%	10.1%	5.6%	13%	6.9%	17.1%	8.9%	5.5%	3.1%	12.4%	12.5%	7.5%		100.0%
Cum. Take	24.3	50.9	65.8	69.1	70.3	132.3	155.8	170.3	170.4	211.1	244.1	263.9		
Cum. Take (%)	9.2%	19.3%	24.9%	26.2%	33.1%	50.1%	59.0%	64.5%	67.6%	80.0%	92.5%	100.0%		

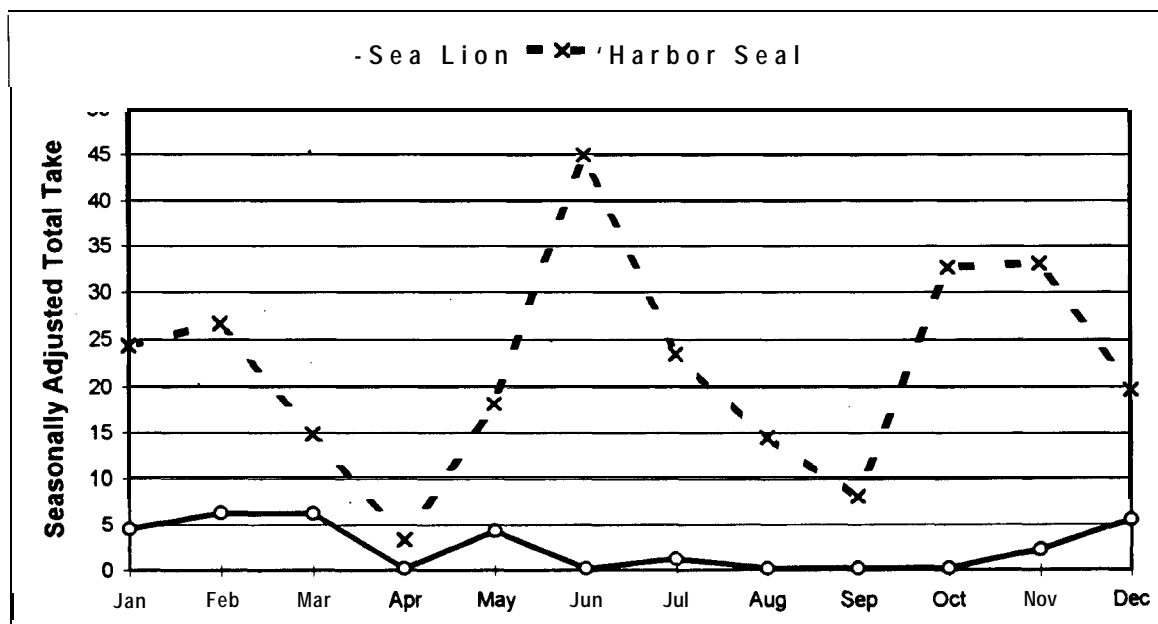
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 2. (cont.) SEA LION AND HARBOR SEAL HARVESTS: NORTH PACIFIC RIM, 1995

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	8	32.6%	9.4	33.1%	57	31.6%	01.7	32.4%
Adult Female	2	8.0%	2.7	9.4%	26	14.5%	44.6	17.7%
Adult Unknown Sex	3	12.0%	3.0	10.6%	15	8.4%	24.0	9.8%
Juvenile Male	2	8.0%	2.0	7.1%	19	10.6%	23.8	9.4%
Juvenile Female	1	4.0%	1.6	5.8%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	7	28.0%	7.0	24.7%	12	6.7%	12.2	4.0%
Pup Male	0	0.0%	0.0	0.0%	9	5.0%	13.2	5.2%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	1	0.6%	1.3	0.5%
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	8.0%	2.6	9.3%	40	22.3%	50.6	20.1%
<b>Total</b>	<b>25</b>	<b>100.0%</b>	<b>26.4</b>	<b>100.0%</b>	<b>179</b>	<b>100.0%</b>	<b>252.1</b>	<b>106.0%</b>

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/ Total		Year	Harvest	Struck/ Total	
		Lost	Take			Lost	Take
1992	25.1	6.5	31.5	1992	377.6	33.4	411.0
1993	25.2	8.7	34.9	1993	412.3	38.5	450.8
1994	16.6	9.7	26.3	1994	411.2	56.6	468.0
1995	20.4	3.0	31.4	1995	252.1	11.7	263.9

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, 1995**

SAMPLING DESIGN:		Active	Other	Total
MIXED	Total Native Households	28	---	28
	Surveyed Households	16	---	16
	Sampling Fraction	57.1%	---	57.1%
	Sample Household Members	63	---	63
	Estimated Household Members	110.7		110.7

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):	
	Sea Harbor Lion	Seal	Sea Lion	Ha&or Seal
Used	N/A	N/A	Total Number Harvested	0.0 3.7
Hunted	N/A	N/A	Total Number Struck and Lost	0.0 0.0
Harvested	N/A	N/A	Total Number Taken	0.0 3.7
Received	N/A	N/A		
Gave Away	N/A	WA	Number Harvested Per Capita	N/A N/A

SEA LION HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
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	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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nw	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	0	0	0	0	0	1	0	0	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	1	0	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	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	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	3.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	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	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	3.7
Total Take (%)	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum Take	1.8	1.8	1.8	1.8	1.0	1.0	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7
Cum. Take (%)	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	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.

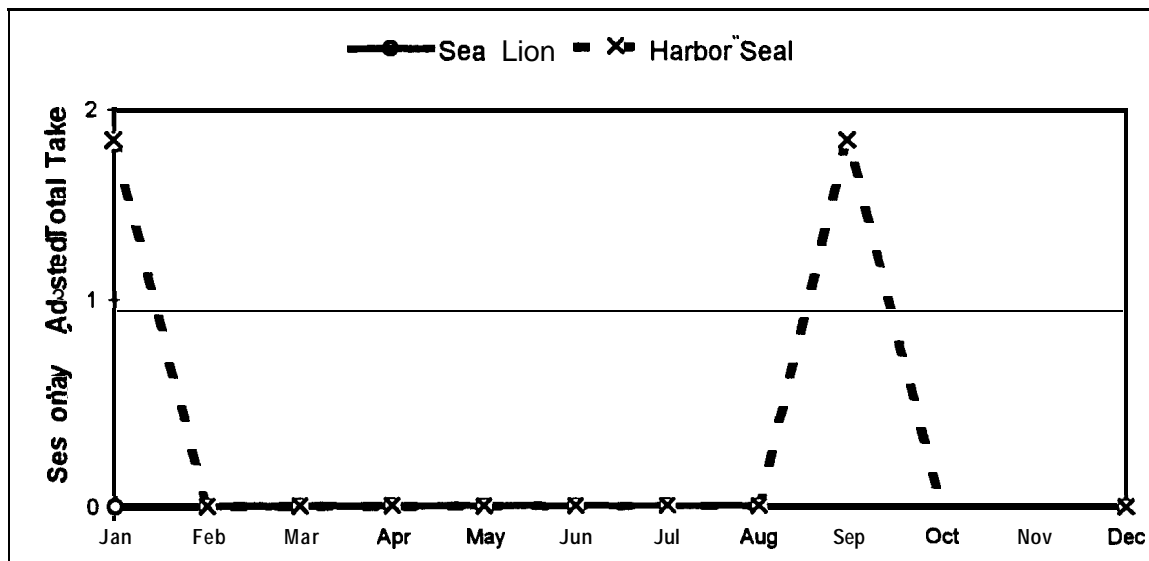


Table 3. (cont.) SEA LION AND HARBOR SEAL HARVESTS: UPPER KENAI-COOK INLET, 1995

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%	1.8	50.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	1	50.0%	1.8	50.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>2</b>	<b>100.0%</b>	<b>3.7</b>	<b>100.0%</b>

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	5.7	3.0	9.5	1992	51.6	0.0	51.6
1993	7.6	3.3	11.1	1993	49.2	5.6	54.6
1994	1.4	0.0	1.4	1994	16.2	0.0	16.2
1995	0.0	0.0	0.0	1995	3.7	0.0	3.7

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, 1995**

SAMPLING DESIGN:		<u>Active</u>	<u>Other</u>	<u>Total</u>
<b>MIXED</b>	Total Native Households	47	227	274
	Surveyed Households	41	184	225
	Sampling Fraction	07.2%	81.1%	82.1%
	Sample Household Members	161	545	706
	Estimated Household Members	184.0	677.1	a61.0

**HARVEST AND USE INFORMATION**

Percentage of Native Households:		<b>Estimated Community Harvest and Take (Expanded):</b>		Sea Harbor	
		<u>Lion</u>	<u>Seal</u>	<u>Lion</u>	<u>Seal</u>
<b>Used</b>	37.7% 56.3%	Total Number Harvested		127.9	223.0
<b>Hunted</b>	20.5% 29.7%	Total Number Struck and Lost		7.7	9.2
<b>Harvested</b>	19.3% 27.7%	Total Number Taken		135.7	232.2
<b>Received</b>	32.1% 42.2%	Number Harvested Per Capita		0.15	0.26
<b>Gave Away</b>	18.5% 24.8%				

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	5	15	11	1	0	2	4	12	23	13	12	0	99
Struck & Lost	0	1	0	2	0	0	0	0	1	1	0	1	0	6
Total Take	1	6	15	13	1	0	2	4	13	24	13	13	0	105
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	6.8	18.9	151	10	0.0	2.2	5.4	15.6	30.0	17.9	14.1	0.0	127.9
Struck & Lost	0.0	1.2	0.0	3.3	0.0	0.0	0.0	0.0	1.2	1.0	0.0	1.0	0.0	7.7
Total Take	1.0	8.0	18.9	184	10	0.0	2.2	5.4	16.8	31.0	17.9	15.1	0.0	135.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	6.8	18.9	151	10	0.0	2.2	5.4	15.6	30.0	17.9	14.1		127.9
Struck & Lost	0.0	1.2	0.0	3.3	0.0	0.0	0.0	0.0	1.2	1.0	0.0	1.0		7.7
Total Take	1.0	8.0	18.9	184	10	0.0	2.2	5.4	16.8	31.0	17.9	15.1		135.7
Total Take (%)	07%	5.9%	13.9%	13.6%	08%	00%	16%	40%	12.4%	22.8%	13.2%	11.1%		100.0%
Cum Take	1.0	9.0	27.8	46.2	47.3	47.3	49.5	54.9	71.7	102.7	120.6	135.7		
Cum Take (%)	0.7%	6.6%	20.5%	34.1%	34.8%	34.8%	36.8%	40.4%	52.9%	75.7%	88.9%	100.0%		

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	7	11	23	14	3	4	5	16	24	36	33	11	1	188
Struck & Lost	3	2	2	0	0	0	0	0	0	1	0	0	0	8
Total Take	10	13	25	14	3	4	5	16	24	37	33	11	1	196
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	7.6	13.4	27.3	191	42	43	59	21.2	28.5	42.0	36.0	12.5	10	223.0
Struck & Lost	3.4	2.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	9.2
Total Take	11.0	15.7	29.7	19.1	42	43	59	21.2	28.5	43.2	36.0	12.5	10	232.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	7.6	13.4	27.3	191	42	43	59	21.2	28.7	42.3	36.5	12.5		223.0
Struck & Lost	3.4	2.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0		9.2
Total Take	11.0	15.7	29.7	19.1	42	43	59	21.2	20.7	43.4	36.5	12.5		232.2
Total Take (%)	47%	6.8%	12.8%	8.2%	18%	18%	26%	9.1%	12.4%	18.7%	15.7%	5.4%		100.0%
Cum. Take	11.0	26.7	56.4	75.5	79.7	0.39	8.99	111.1	139.8	183.2	219.7	232.2		
Cum Take (%)	4.7%	11.5%	24.3%	32.5%	34.3%	36.1%	38.7%	47.8%	60.2%	78.9%	94.6%	100.0%		

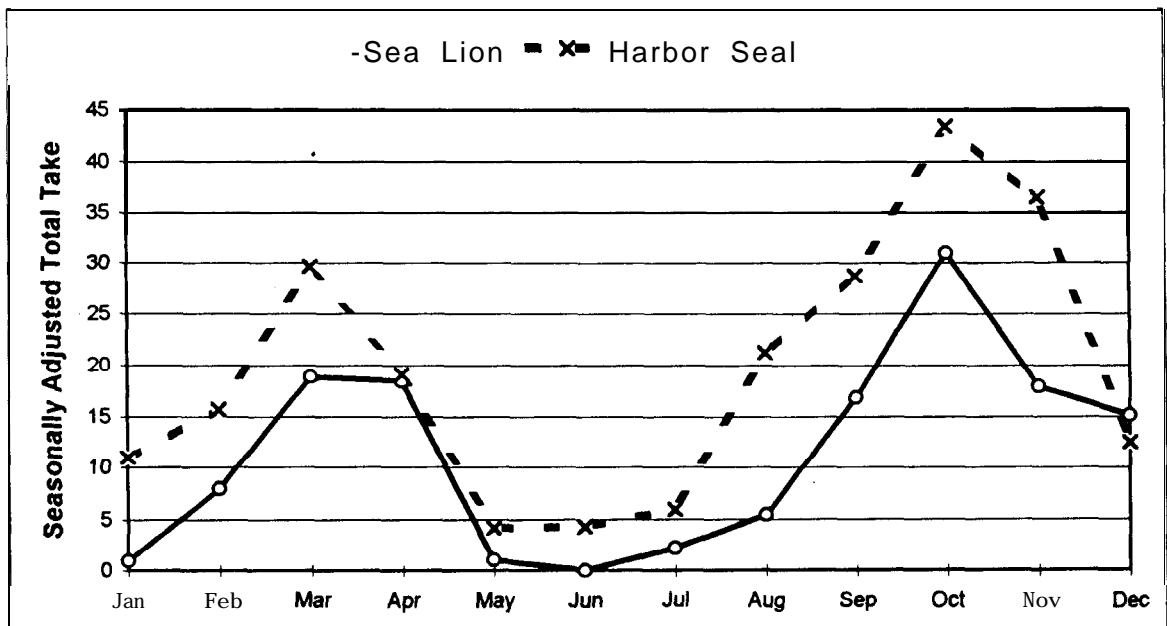
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

**Table 4. (cont.) SEA LION AND HARBOR SEAL HARVESTS: KODIAK ISLAND, 1995**

*HARVEST BY AGE AND SEX*

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	7	7.1%	8.0	6.3%	53	28.2%	59.8	26.8%
Adult Female	14	14.1%	18.5	14.5%	31	16.5%	40.3	18.1%
Adult Unknown Sex	4	4.0%	5.7	4.5%	4	2.1%	6.6	3.0%
Juvenile Male	48	48.5%	62.1	48.5%	59	31.4%	67.4	30.2%
Juvenile Female	23	23.2%	301	23.6%	32	17.0%	39.2	17.6%
Juvenile Unknown Sex	3	3.0%	3.4	2.7%	7	3.7%	7.6	3.4%
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%	1	0.5%	1.0	0.4%
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	0.5%	1.0	0.4%
<b>Total</b>	<b>99</b>	<b>100.0%</b>	<b>127.9</b>	<b>100.0%</b>	<b>188</b>	<b>100.0%</b>	<b>223.0</b>	<b>100.0%</b>

*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
<b>1995</b>	<b>127.9</b>	<b>7.7</b>	<b>135.7</b>	<b>1995</b>	<b>223.0</b>	<b>9.2</b>	<b>232.2</b>

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, 1995**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Native Households	29	369	398
	Surveyed Households	27	147	174
	Sampling Fraction	93.1%	39.8%	43.7%
	Sample Household Members	113	511	624
	Estimated Household Members	121.6	1203.6	1325.3

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>	
	<u>Sea Harbor Lion</u>	<u>Seal</u>	<u>Sea Harbor Lion</u>	<u>Seal</u>
used	54%	37.4%	Total Number Harvested	8.1 117.0
Hunted	2.9%	16.6%	Total Number Struck and Lost	0.0 11.1
Harvested	0.9%	12.9%	Total Number Taken	8.1 128.0
Received	4.5%	32.6%		
Gave Away	0.9%	15.0%	Number Harvested Per Capita	0.01 0.09

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	2	1	0	0	0	2	1	0	1	0	0	7
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	2	1	0	0	0	2	1	0	1	0	0	7
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	2.0	1.0	0.0	0.0	0.0	2.6	1.0	0.0	1.6	0.0	0.0	8.1
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	2.0	1.0	0.0	0.0	0.0	2.6	1.0	0.0	1.6	0.0	0.0	8.1
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	2.0	1.0	0.0	0.0	0.0	2.6	1.0	0.0	1.6	0.0	0.0	8.1
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	2.0	1.0	0.0	0.0	0.0	2.6	1.0	0.0	1.6	0.0	0.0	8.1
Total Take (%)	0.0%	0.0%	2.46%	1.23%	0.0%	0.0%	0.0%	31.6%	12.3%	0.0%	19.3%	0.0%	0.0%	100.0%
Cum Take	0.0	0.0	2.0	3.0	3.0	3.0	3.0	5.6	6.6	6.6	8.1	8.1	8.1	8.1
Cum Take (%)	0.0%	0.0%	24.6%	36.8%	36.8%	36.8%	36.8%	68.4%	80.7%	80.7%	100.0%	100.0%	100.0%	100.0%

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	10	11	6	6	2	3	3	3	12	4	11	7	1	79
Struck & Lost	0	1	1	1	0	0	0	0	0	0	1	1	4	9
Total Take	10	12	7	7	2	3	3	3	12	4	12	8	5	88
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	12.3	12.8	6.4	7.0	2.5	3.7	3.9	3.4	26.6	16.5	13.1	7.9	1.0	117.0
Struck & Lost	0.0	1.3	1.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	4.2	11.1
Total Take	12.3	14.1	7.7	8.1	2.5	3.7	3.9	3.4	26.6	16.5	14.7	9.4	5.2	128.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	12.3	12.9	6.4	7.1	2.5	3.7	3.9	3.4	26.9	16.8	13.2	7.9	1.0	117.0
Struck & Lost	0.3	1.8	1.5	1.3	0.1	0.1	0.1	0.1	1.1	0.9	1.9	1.9	4.2	11.1
Total Take	12.5	14.7	8.0	8.4	2.6	3.8	4.0	3.4	28.0	17.7	15.1	9.8	5.2	128.0
Total Take (%)	9.8%	11.5%	6.2%	66%	20%	3.0%	3.1%	27%	21.9%	13.8%	11.8%	7.7%	0.0%	100.0%
Cum Take	12.5	21.2	35.2	43.6	46.1	49.9	53.9	51.3	85.3	103.1	118.2	128.0	128.0	128.0
Cum Take (%)	9.8%	21.3%	27.5%	34.0%	36.0%	39.0%	42.1%	44.8%	66.7%	80.5%	92.3%	100.0%	100.0%	100.0%

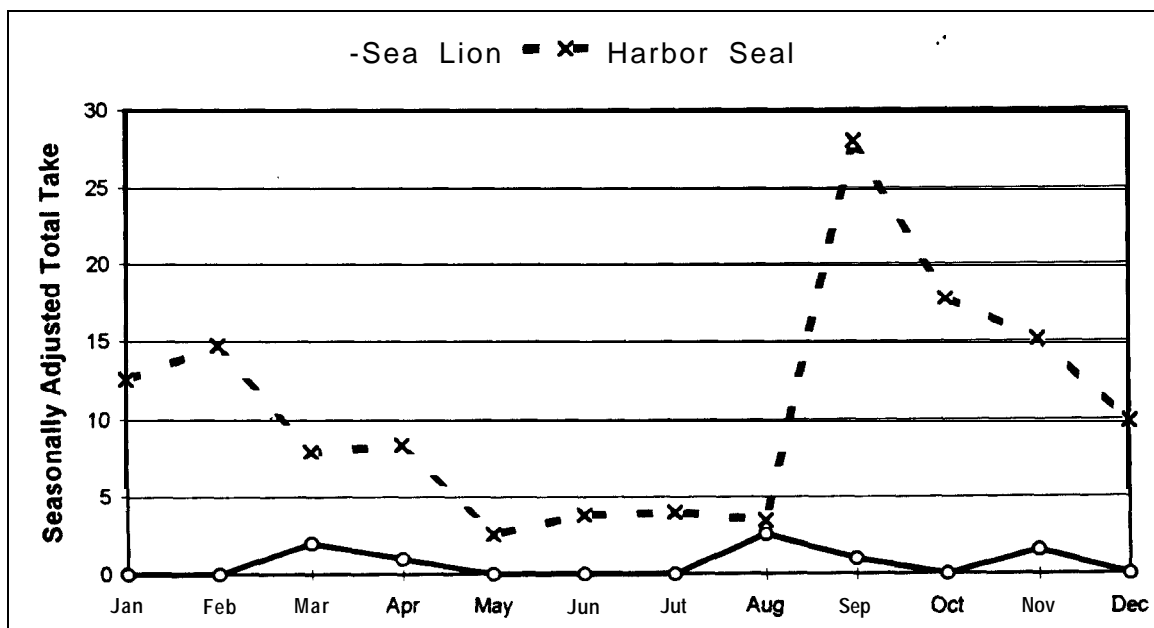
SOURCE, Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska

**Table 5. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTH ALASKA PENINSULA, 1995**

*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	3	42.9%	3.6	43.9%	3.7	<b>46.8%</b>	54.1	46.3%
Adult Female	2	26.6%	2.6	31.6%	4	5.1%	6.0	5.2%
Adult Unknown Sex	0	0.0%	0.0	0.0%	5	6.3%	7.0	6.0%
Juvenile Male	2	28.6%	2.0	24.6%	12	15.2%	12.7	10.9%
Juvenile Female	0	0.0%	0.0	0.0%	4	5.1%	16.5	14.1%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	13	16.5%	16.1	<b>13.7%</b>
Pup Male	0	0.0%	0.0	0.0%	1	1.3%	1.2	1.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	1	1.3%	1.3	1.1%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	<b>0.0%</b>
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%	2	2.5%	2.1	1.8%
<b>Total</b>	<b>7</b>	<b>100.0%</b>	<b>81</b>	<b>100.0%</b>	<b>79</b>	<b>100.0%</b>	<b>117.0</b>	<b>100.0%</b>

*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	<b>100.0</b>	23.1	123.1
1994	4.6	1.1	5.7	1994	98.6	11.1	<b>109.8</b>
1995	8.1	0.0	8.1	1995	117.0	11.1	128.0

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, 1995**

SAMPLING DESIGN:		<u>Active</u>	<u>Other</u>	<u>Total</u>
MIXED	Total Native Households	32	129	161
	Surveyed Households	23	61	84
	Sampling Fraction	71.9%	47.3%	52.2%
	Sample Household Members	75	163	238
	Estimated Household Members	104.3	357.8	462.1

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		
	Sea Harbor			Sea Harbor	
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	50.1%	50.6%	Total Number Harvested	85.0	86.9
Hunted	13.9%	16.9%	Total Number Struck and Lost	11.1	9.7
Harvested	10.8%	15.4%	Total Number Taken	96.1	96.6
Received	48.5%	47.5%			
Gave Away	10.2%	15.4%	Number Harvested Per Capita	0.18	0.19

SEA LION HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Ckt	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	5	3	5	2	0	3	0	3	2	6	4	13	4	50
Struck & Lost	1	0	1	1	0	0	0	1	0	1	1	2	0	8
Total Take	6	3	6	3	0	3	0	4	2	7	5	15	4	58
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	7.0	4.2	6.2	2.0	0.0	3.4	0.0	5.3	3.9	11.7	8.9	22.5	10.0	85.0
Struck & Lost	1.4	0.0	1.4	1.4	0.0	0.0	0.0	1.4	0.0	1.4	1.4	2.8	0.0	11.1
Total Take	8.3	4.2	7.6	3.4	0.0	3.4	0.0	6.7	3.9	13.1	10.3	25.3	10.0	96.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	7.0	4.2	6.2	2.0	0.0	3.4	0.0	6.1	4.7	14.2	11.4	25.9		85.0
Struck & Lost	1.4	0.0	1.4	1.4	0.0	0.0	0.0	1.4	0.0	1.4	1.4	2.8		11.1
Total Take	8.3	4.2	7.6	3.4	0.0	3.4	0.0	7.5	4.7	15.6	12.8	28.6		96.1
Total Take (%)	8.7%	4.3%	7.9%	3.5%	0.0%	3.5%	0.0%	7.8%	4.9%	16.2%	13.3%	29.8%		100.0%
Cum. Take	8.3	12.5	20.1	23.5	23.5	26.9	26.9	34.4	39.1	54.7	67.4	96.1		
Cum. Take (%)	8.7%	13.0%	20.9%	24.4%	24.4%	28.0%	28.0%	35.8%	40.7%	56.9%	70.2%	100.0%		

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	4	2	1	3	0	2	2	3	9	9	5	4	46
Struck & Lost	0	0	1	0	0	0	0	0	1	1	1	3	0	7
Total Take	2	4	3	1	3	0	2	2	4	10	10	8	4	53
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.4	5.2	3.9	1.4	3.4	0.0	5.0	5.0	4.9	15.5	22.2	8.1	10.0	86.9
Struck & Lost	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	4.2	0.0	9.7
Total Take	2.4	5.2	5.3	1.4	3.4	0.0	5.0	5.0	6.3	16.8	23.6	12.2	10.0	96.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.4	5.2	4.7	1.4	3.4	0.0	6.5	6.5	5.7	17.8	24.5	8.8		88.9
Struck & Lost	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	4.2		9.7
Total Take	2.4	5.2	6.1	1.4	3.4	0.0	6.5	6.5	7.1	19.2	25.9	13.0		96.6
Total Take (%)	2.5%	5.4%	6.3%	1.4%	3.5%	0.0%	6.8%	6.8%	7.3%	19.8%	26.8%	13.5%		100.6%
Cum. Take	2.4	7.6	13.6	15.0	18.4	18.4	24.9	31.5	38.5	57.7	83.6	96.6		
Cum. Take (%)	2.5%	7.8%	14.1%	15.5%	19.0%	19.0%	25.8%	32.6%	39.9%	59.7%	86.5%	100.0%		

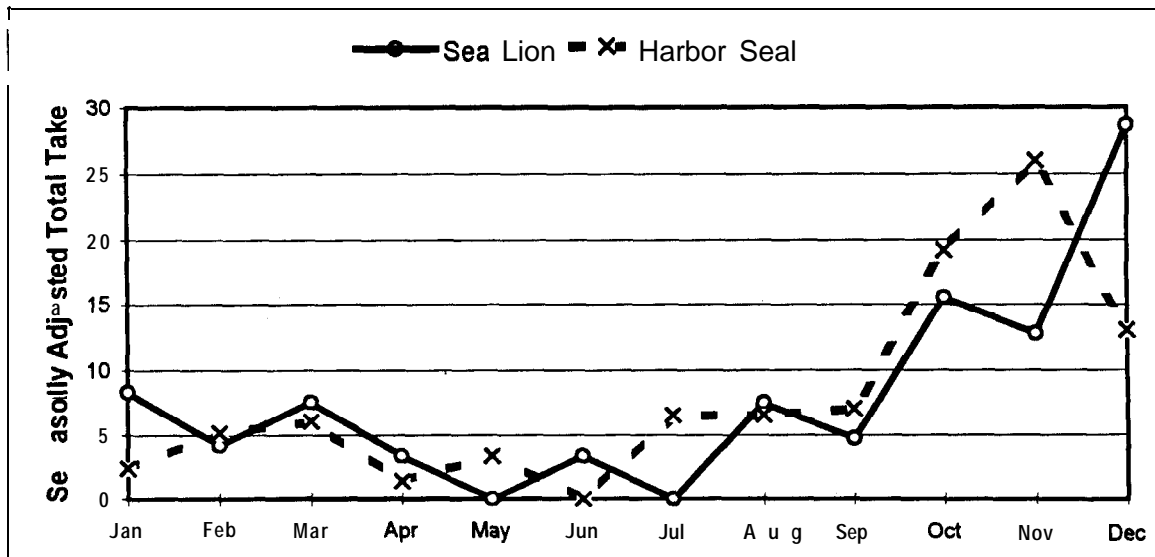
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitoring System for Sea Lions and Harbor Seals in Alaska.

**Table 6. (cont.) SEA LION AND HARBOR SEAL HARVESTS: ALEUTIAN ISLANDS, 1996**

*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	24.9%	20.0	23.5%	27	50.7%	54.2	62.4%
Adult Female	8	16.0%	15.9	10.7%	2	4.3%	3.9	4.5%
Adult Unknown Sex	1	2.0%	1.4	1.6%	1	2.2%	1.4	1.6%
Juvenile Male	14	28.0%	20.2	23.8%	7	15.2%	10.5	12.0%
Juvenile Female	5	10.0%	9.2	10.8%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	6	12.0%	8.3	9.8%	5	10.9%	7.0	8.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	4	0.0%	10.0	11.8%	4	8.7%	10.0	11.5%
<b>Total</b>	<b>50</b>	<b>100.0%</b>	<b>85.0</b>	<b>100.0%</b>	<b>46</b>	<b>100.0%</b>	<b>86.9</b>	<b>100.0%</b>

*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	104.3	30.9	135.2	1992	94.3	21.4	115.7
1993	99.0	24.8	123.8	1993	05.0	15.4	100.4
1994	101.8	20.5	122.3	1994	124.9	22.6	147.5
<b>1995</b>	<b>85.0</b>	<b>11.1</b>	<b>96.1</b>	<b>1995</b>	<b>86.9</b>	<b>9.7</b>	<b>96.6</b>

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, 1995**

SAMPLING DESIGN:		Active	Other	Total
MIXED	Total Native Households	59	142	201
	Surveyed Households	47	71	118
	Sampling Fraction	79.7%	50.0%	58.7%
	Sample Household Members	210	239	449
	Estimated Household Members	263.6	503.4	767.0

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		
Sea Harbor			Sea Harbor		
	Lion	Seal		Lion	Seal
Used	53.3%	3.1%	Total Number Harvested	57.6	2.5
Hunted	19.7%	0.6%	Total Number Struck and Lost	10.3	0.0
Harvested	15.0%	0.6%	Total Number Taken	67.9	2.5
Received	48.7%	2.5%			
Gave Away	15.2%	0.6%	Number Harvested Per Capita	0.08	0.00

SEA LION HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	8	0	0	10	0	0	0	3	8	3	3	0	38
Struck & Lost	0	1	3	0	1	0	0	0	0	0	0	0	4	9
Total Take	3	9	3	0	11	0	0	0	3	8	3	3	4	47
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.8	11.2	0.0	0.0	191	0.0	0.0	0.0	3.8	12.2	3.8	3.8	0.0	57.6
Struck & Lost	0.0	1.0	3.8	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	10.3
Total Take	3.8	12.2	3.8	0.0	20.4	0.0	0.0	0.0	3.8	12.2	3.8	3.8	4.3	67.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.8	11.2	0.0	0.0	191	0.0	0.0	0.0	3.6	12.2	3.8	3.8		57.6
Struck & Lost	0.0	4.0	4.7	0.0	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0		10.3
Total Take	3.8	15.2	4.7	0.0	20.7	0.0	0.0	0.0	3.0	12.2	3.8	3.8		67.9
Total Take (%)	5.5%	22.4%	6.9%	0.0%	30.5%	0.0%	0.0%	0.0%	5.5%	18.0%	5.5%	5.5%		100.0%
Cum Take	3.0	19.0	23.7	23.7	44.4	44.4	44.4	44.4	48.2	60.4	64.2	67.9		
Cum Take (%)	55%	27.9%	34.9%	34.9%	65.4%	65.4%	65.4%	65.4%	70.9%	88.9%	94.5%	100.0%		

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	0	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	2	0	0	0	0	0	0	0	0	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.5
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.5
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	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5		
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%		

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

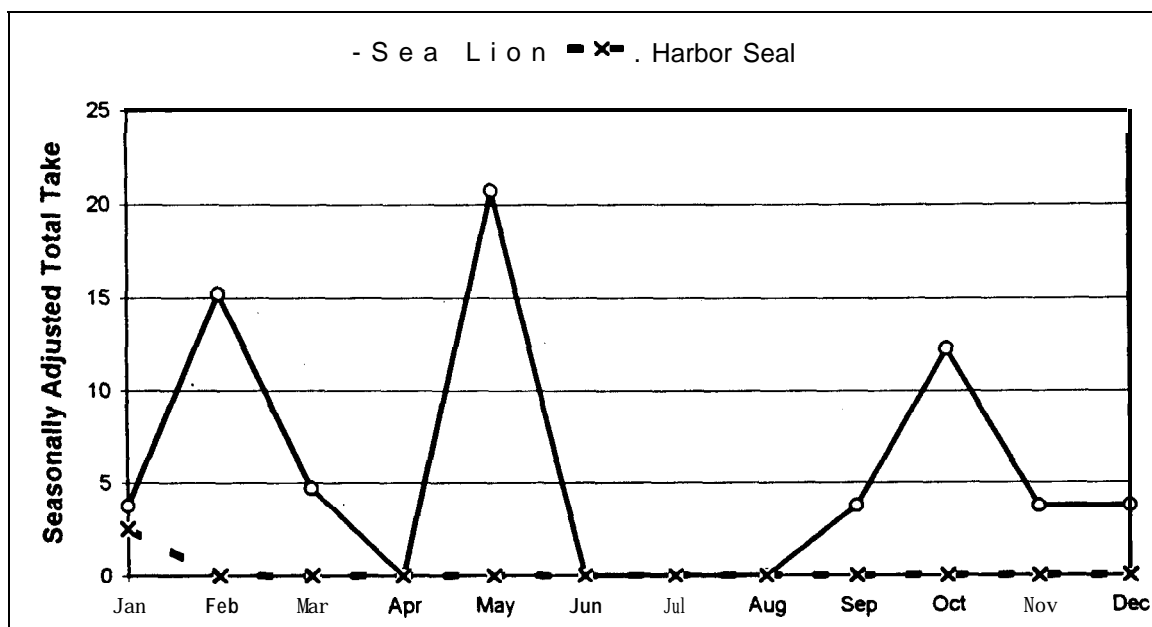


**Table 7. (cont.) SEA LION AND HARBOR SEAL HARVESTS: PRIBILOF ISLANDS, 1995**

*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	6	15.6%	6.5	11.3%	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	26	66.4%	34.8	60.4%	2	100.0%	2.5	100.0%
Juvenile Female	2	5.3%	2.5	4.4%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	3	7.9%	10.3	17.9%	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	1	2.6%	3.4	6.0%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>36</b>	<b>100.0%</b>	<b>57.6</b>	<b>100.0%</b>	<b>2</b>	<b>100.0%</b>	<b>2.5</b>	<b>100.0%</b>

*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	176.6	120.2	296.8	1992	2.3	1.2	3.5
1993	165.4	80.0	245.4	1993	2.3	1.2	3.5
1994	149.8	43.5	193.3	1994	7.3	0.0	7.3
1995	57.6	10.3	67.9	1995	2.5	0.0	2.5

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. SEA LION AND HARBOR SEAL HARVESTS: SOUTH BRISTOL BAY, 1995**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Native Households	15	258	273
	Surveyed Households	15	199	214
	Sampling Fraction	100.0%	77.1%	78.4%
	Sample Household Members	53	578	631
	Estimated Household Members	53.0	734.3	787.3

*HARVEST AND USE INFORMATION*

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	<u>Sea Lion</u>	<u>Harbor Seal</u>		<u>Sea Lion</u>	<u>Harbor Seal</u>
Used	0.0%	37.0%	Total Number Harvested	0.0	68.3
Hunted	0.0%	16.2%	Total Number Struck and Lost	0.0	28.3
Harvested	0.0%	11.4%	Total Number Taken	0.0	96.6
Received	0.0%	27.5%			
Gave Away	0.0%	15.2%	Number Harvested Per Capita	0.00	0.09

<i>SEA LION HARVEST BY MONTH</i>													<u>Unknown</u>	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<i>HARBOR SEAL HARVEST BY MONTH</i>													<u>Unknown</u>	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	0	0	1	14	7	3	2	18	8	5	0	0	1	59
Struck & Lost	0	0	1	4	3	1	2	5	6	0	0	1	0	23
Total Take	0	0	2	18	10	4	4	23	14	5	0	1	1	82
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	1.0	14.0	7.0	3.0	2.0	23.3	11.5	5.4	0.0	0.0	1.0	68.3
Struck & Lost	0.0	0.0	1.0	4.0	3.0	1.0	2.0	6.8	9.5	0.0	0.0	1.0	0.0	28.3
Total Take	0.0	0.0	2.0	18.0	10.0	4.0	4.0	30.1	21.1	5.4	0.0	1.0	1.0	96.6
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	1.0	15.1	7.0	3.0	2.0	23.3	11.5	5.4	0.0	0.0	0.0	68.3
Struck & Lost	0.0	0.0	1.0	4.0	3.0	1.0	2.0	6.8	9.5	0.0	0.0	1.0	0.0	28.3
Total Take	0.0	0.0	2.0	19.1	10.0	4.0	4.0	30.1	21.1	5.4	0.0	1.0	1.0	96.6
Total Take (%)	0.0%	0.0%	2.1%	19.7%	10.4%	4.1%	4.1%	31.1%	21.8%	5.6%	0.0%	1.0%	1.0%	100.0%
Cum Take	0.0	0.0	2.0	21.1	31.1	35.1	39.1	59.1	90.2	95.6	95.6	96.6	96.6	96.6
Cum Take (%)	0.0%	0.0%	2.1%	21.8%	32.2%	36.3%	40.4%	71.6%	93.4%	99.0%	99.0%	100.0%	100.0%	100.0%

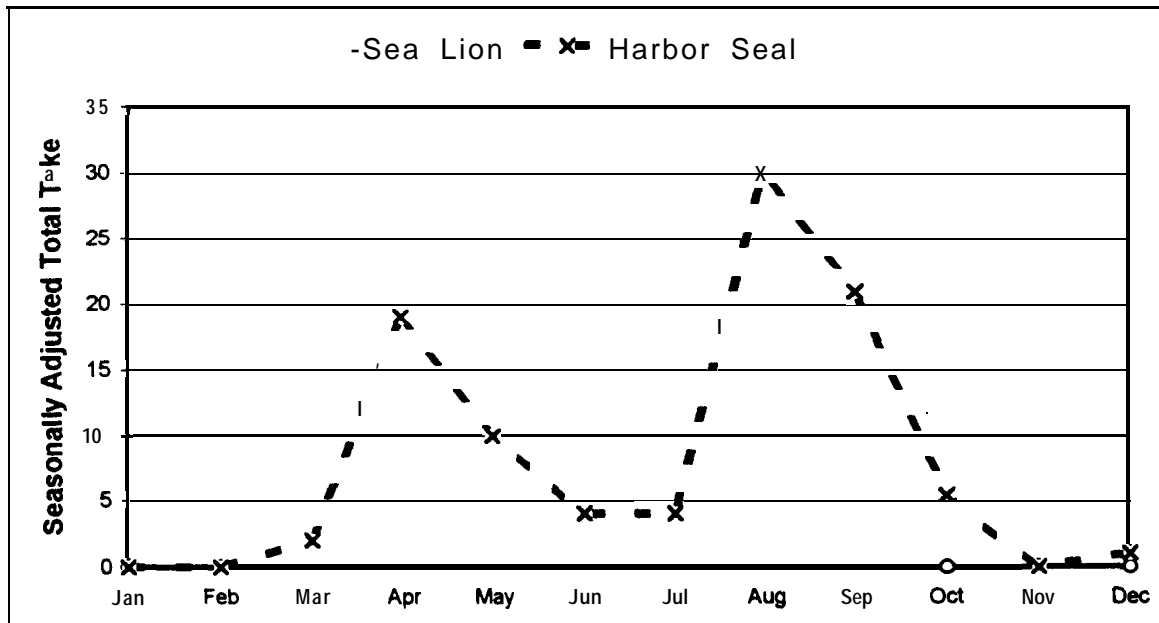
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 8. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTH BRISTOL BAY, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	6	10.2%	6.4	9.3%
Adult Female	0	--	0.0	--	4	6.8%	4.0	5.9%
Adult Unknown Sex	0	--	0.0	--	<b>38</b>	<b>64.4%</b>	<b>46.8</b>	<b>68.6%</b>
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	--	2	3.4%	2.0	2.9%
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	--	2	3.4%	2.0	2.9%
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	--	7	11.9%	7.0	10.3%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>59</b>	<b>100.0%</b>	<b>68.3</b>	<b>100.0%</b>

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	66.6	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
<b>1995</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	1995	66.3	28.3	96.6

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

Table 9. SEA LION AND HARBOR SEAL HARVESTS: NORTH BRISTOL BAY, 1995

<b>SAMPLING DESIGN:</b>	<b>Active</b>	<b>Other</b>	<b>Total</b>
<b>MIXED</b>			
Total Native Households	120	567	687
Surveyed Households	112	157	269
Sampling Fraction	93.3%	27.7%	39.2%
Sample Household Members	511	599	1110
Estimated Household Members	545.7	1964.1	2509.9

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>			
<u>Sea Lion</u>	<u>Harbor Seal</u>	<u>and Spotted Seal</u>	<u>sea Lion</u>	<u>Harbor Seal</u>	<u>spotted Seal</u>	
used	0.5%	69.6%	Total Number Harvested	0.0	25.9	1637
Hunted	0.0%	15.8%	Total Number Struck and Lost	0.0	2.4	33.5
Harvested	0.0%	12.3%	<b>Total Number Taken</b>	<b>0.0</b>	<b>28.3</b>	<b>197.2</b>
Received	0.5%	64.9%	Number Harvested Per Capita	0.00	0.01	0.07
Gave Away	0.0%	16.1%				

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum Take (%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

<b>HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH</b>														Unknown	Total
	<u>Spotted Seal</u>					<u>Harbor Seal</u>				<u>Spotted Seal</u>				Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>															
Harvest	3	7	27	54	18	0	5	3	3	7	11	16	2	156	
Struck & Lost	0	0	8	12	5	0	2	0	0	5	0	0	1	33	
Total Take	3	7	35	66	23	0	7	3	3	12	11	16	3	189	
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>															
Harvest	3.3	7.1	29.0	63.3	29.7	0.0	5.7	16.0	3.3	7.9	12.2	17.7	2.7	189.6	
Struck & Lost	0.0	0.0	8.4	12.7	5.9	0.0	2.0	0.0	0.0	5.9	0.0	0.0	1.0	35.9	
Total Take	3.3	7.7	37.4	76.0	26.6	0.0	7.7	16.0	3.3	13.8	12.2	17.7	3.7	225.5	
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>															
Harvest	3.3	7.7	29.0	64.9	21.0	0.0	6.3	16.3	3.3	7.9	12.2	17.7		189.6	
Struck & Lost	0.0	0.0	8.4	13.3	5.9	0.0	2.4	0.0	0.0	5.9	0.0	0.0		35.9	
Total Take	3.3	7.7	37.4	78.2	26.9	0.0	8.7	16.3	3.3	13.9	12.2	17.7		225.5	
Total Take (%)	1.5%	3.4%	16.6%	34.7%	11.9%	0.0%	3.8%	7.2%	1.5%	6.2%	5.4%	7.8%		100.0%	
Cum. Take	3.3	11.1	48.4	126.6	153.5	153.5	162.2	178.5	181.8	195.6	297.8	225.5			
Cum Take (%)	1.5%	4.9%	21.5%	56.2%	68.1%	68.1%	71.9%	79.2%	89.6%	86.9%	92.2%	109.0%			

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

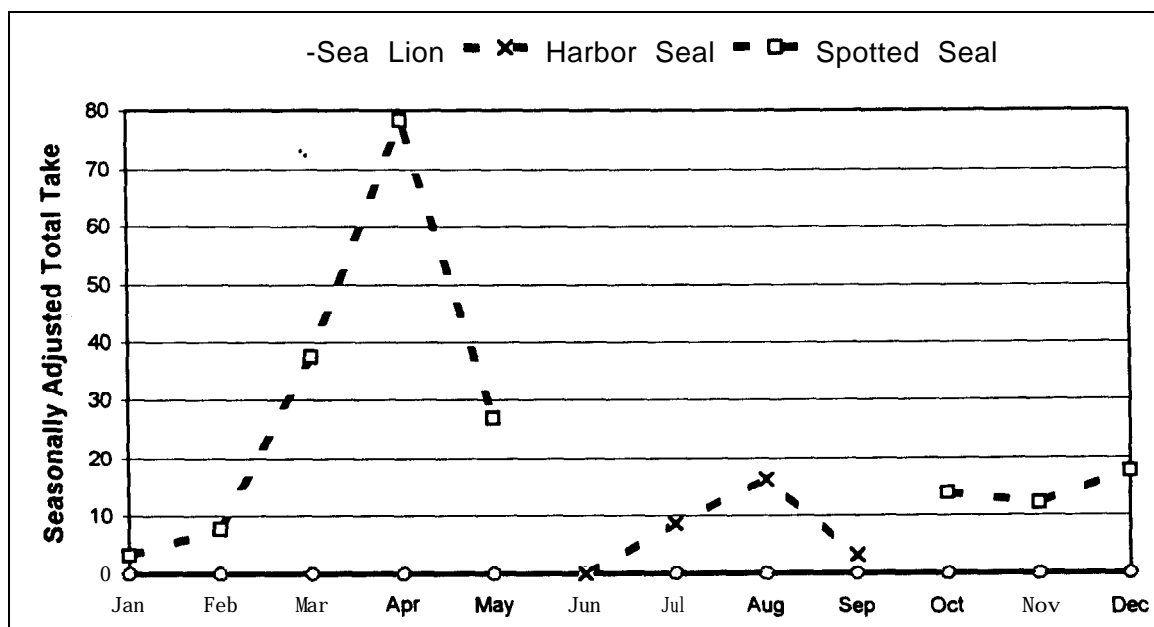
Table 9.(cont) SEA LION, HARBOR & SPOTTED SEAL HARVESTS: NORTH BRISTOL BAY, 1994

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	--	3	27.3%	4.3	16.3%	27	16.9%	299	18.3%
Adult Female	0	--	0.0	--	3	27.3%	3.7	14.2%	10	7.0%	11.1	6.6%
Adult Unknown Sex	0	--	0.0	--	2	18.2%	2.2	8.3%	28	19.6%	31.9	19.6%
Juvenile Male	0	--	0.0	--	2	18.2%	14.4	54.6%	12	8.4%	13.9	8.5%
Juvenile Female	0	--	0.0	--	1	9.1%	1.7	6.6%	9	6.3%	10.0	6.1%
Juvenile Unknown Sex	0	--	0.0	--	0	0.0%	0.0	00%	28	19.6%	32.0	19.6%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%	3	2.1%	3.3	2.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%	2	1.4%	2.2	1.4%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%	3	2.1%	3.3	2.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%	2	1.4%	2.1	1.3%
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%	19	13.3%	23.4	14.4%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>11</b>	<b>100.0%</b>	<b>26.4</b>	<b>100.0%</b>	<b>143</b>	<b>100.0%</b>	<b>163.2</b>	<b>100.0%</b>

. 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	7.0	0.0	7.8	1992	58.4	13.2	71.6	1992	364.1	72.5	436.6
1993	3.3	3.3	6.5	1993	46.1	20.0	66.1	1993	215.1	49.1	264.1
1994	1.2	0.0	1.2	1994	16.2	3.3	19.5	1994	226.5	42.9	269.5
1996	0.0	0.0	0.0	<b>1995</b>	<b>25.9</b>	<b>2.4</b>	<b>28.3</b>	<b>1995</b>	<b>163.7</b>	<b>33.5</b>	<b>197.2</b>

SOURCE. Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lion 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

**KODIAK ISLAND**

53-54   Akhiok  
55-56   Karluk  
57-58   Kodiak City  
59-60   Larsen Bay  
61-62   Old Harbor  
63-64   Ouzinkie  
65-66   Port Lions

**SOUTH ALASKA PENINSULA**

67-68   Chignik Bay  
69-70   Chignik Lagoon  
71-72   Chignik Lake  
73-74   False Pass  
75-76   Ivanof Bay  
77-78   King Cove  
79-80   Perryville  
81-82   Sand Point

**ALEUTIAN ISLANDS**

83-84   Akutan  
85-86   Atka  
87-88   Nikolski  
89-90   Unalaska

**PRIBILOF ISLANDS**

91-92   St. George  
93-94   St. Paul

**SOUTH BRISTOL BAY**

**95-96**   Egegik  
97-98   King Salmon  
99-100   Levelock  
101-102   Naknek  
103-104   Pilot Point  
105-106   Port Heiden  
107-108   South Naknek

**NORTH BRISTOL BAY**

109-110   Aleknagik  
**111-112**   Clark's Point  
113-114   Dillingham  
115-116   Manokotak  
117-118   Togiak

**Table 1. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Angoon, 1995**

*SAMPLING DESIGN:*

CHAIN REFERRAL	Total Referred Households	55
	Surveyed Households	51
	Sampling Fraction	92.7%
	Sample Household Members	211
	Estimated Household Members	227.5

*HARVEST AND USE INFORMATION*

<i>Percentage of Sample Households:</i>		<i>Estimated Community Harvest and Take (Expanded):</i>	
	Sea Harbor		Sea Harbor
	<u>Lion</u> <u>Seal</u>		<u>Lion</u> <u>Seal</u>
used	0.0% 74.5%	Total Number Harvested	0.0 80.9
Hunted	0.0% 392%	Total Number Struck and Lost	0.0 9.7
Harvested	0.0% 35.3%	Total Number Taken	0.0 99.6
Received	0.0% 49.0%		
Gave Away	0.0% 27.5%	Number Harvested Per Capita	N/A N/A

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Ckt	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	15	9	8	9	5	8	0	0	4	4	6	7	0	75
Struck & Lost	1	6	0	2	0	0	0	0	0	0	0	0	0	9
Total Take	16	15	8	11	5	8	0	0	4	4	6	7	0	84
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	16.2	9.7	8.6	9.7	5.4	8.6	0.0	0.0	4.3	4.3	6.5	7.5	0.0	80.9
Struck & Lost	1.1	6.5	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7
Total Take	17.3	16.2	8.6	11.9	5.4	8.6	0.0	0.0	4.3	4.3	6.5	7.5	0.0	90.6
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	16.2	9.7	8.6	9.7	5.4	8.6	0.0	0.0	4.3	4.3	6.5	7.5	0.0	80.9
Struck & Lost	1.1	6.5	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7
Total Take	17.3	16.2	8.6	11.9	5.4	8.6	0.0	0.0	4.3	4.3	6.5	7.5	0.0	90.6
Total Take (%)	19.0%	17.9%	9.5%	13.1%	6.0%	9.5%	0.0%	0.0%	4.8%	4.8%	7.1%	8.3%	0.0%	100.0%
Cum. Take	17.3	33.4	42.1	53.9	59.3	67.9	67.9	67.9	72.3	76.6	83.0	90.6	90.6	90.6
Cum Take (%)	19.0%	36.9%	46.4%	59.5%	65.5%	75.0%	75.0%	75.0%	79.8%	84.5%	91.7%	96.4%	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 City of Angoon, 1995

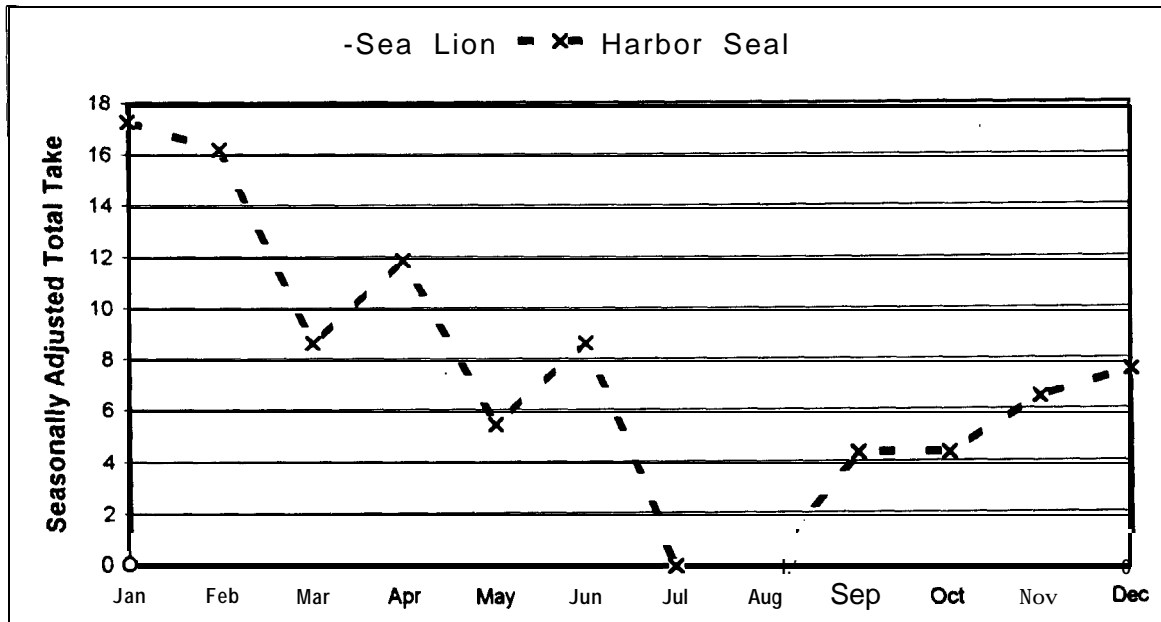


**Table 1. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Angoon, 1995**

*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	---	60	80.0%	64.7	80.0%
Adult Female	0	---	0.0	---	9	12.0%	9.7	12.0%
Adult Unknown Sex	0	---	0.0	---	1	1.3%	1.1	1.3%
Juvenile Male	0	---	0.0	---	5	6.7%	5.4	6.7%
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%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>75</b>	<b>100.0%</b>	<b>80.9</b>	<b>100.0%</b>

*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	Lost	Take	Year	Harvest	Lost	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	86.9	21.1	88.0
1995	0.0	0.0	0.0	1995	80.9	9.7	90.6

SOURCE Abska 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, 1995.

Table 2. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Craig, 1995

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	31
	Surveyed Households	25
	Sampling Fraction	80.6%
	Sample Household Members	98
	Estimated Household Members	121.5

HARVEST AND USE INFORMATION

Percentage of Sample Households:		Estimated Community Harvest and Take (Expanded):	
	Sea Harbor		Sea Harbor
	<u>Lion</u> <u>Seal</u>		<u>Lion</u> <u>Seal</u>
used	0.0% 92.0%	Total Number Harvested	0.0 69.4
Hunted	0.0% 64.0%	Total Number Struck and Lost	0.0 13.6
Harvested	0.0% 60.0%	Total Number Taken	0.0 63.1
Received	0.0% 48.0%		
Gave Away	0.0% 48.0%	Number Harvested Per Capita	N/A N/A

SEA LION HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
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	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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HARBOR SEAL HARVEST BY MONTH														
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown	Total	
Month	Month	Month	Month	Month	Month	Month	Month	Month	Month	Month	Month	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	7	9	9	9	4	1	5	0	2	4	4	2	0	56
Struck & Lost	2	1	1	0	1	0	1	0	0	2	3	0	0	11
Total Take	9	10	10	9	5	1	6	0	2	6	7	2	0	67
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	8.7	11.2	11.2	11.2	5.0	1.2	6.2	0.0	2.5	5.0	5.0	2.5	0.0	69.4
Struck & Lost	2.5	1.2	1.2	0.0	1.2	0.0	1.2	0.0	0.0	2.5	3.7	0.0	0.0	13.6
Total Take	11.2	12.4	12.4	11.2	6.2	1.2	7.4	0.0	2.5	7.4	8.7	2.5	0.0	83.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	8.7	11.2	11.2	11.2	5.0	1.2	6.2	0.0	2.5	5.0	5.0	2.5	0.0	69.4
Struck & Lost	2.5	1.2	1.2	0.0	1.2	0.0	1.2	0.0	0.0	2.5	3.7	0.0	0.0	13.6
Total Take	11.2	12.4	12.4	11.2	6.2	1.2	7.4	0.0	2.5	7.4	8.7	2.5	0.0	83.0
Total Take (%)	13.4%	14.9%	14.9%	13.4%	7.5%	1.5%	9.0%	0.0%	3.6%	9.0%	10.4%	3.0%	0.0%	100.0%
Cum Take	11.2	23.6	36.0	47.1	53.3	54.6	62.0	62.0	64.5	71.9	60.6	63.1	63.1	63.1
Cum. Take(%)	13.4%	20.4%	43.3%	56.7%	64.2%	65.7%	74.6%	74.6%	77.6%	66.6%	97.0%	100.0%	100.0%	100.0%

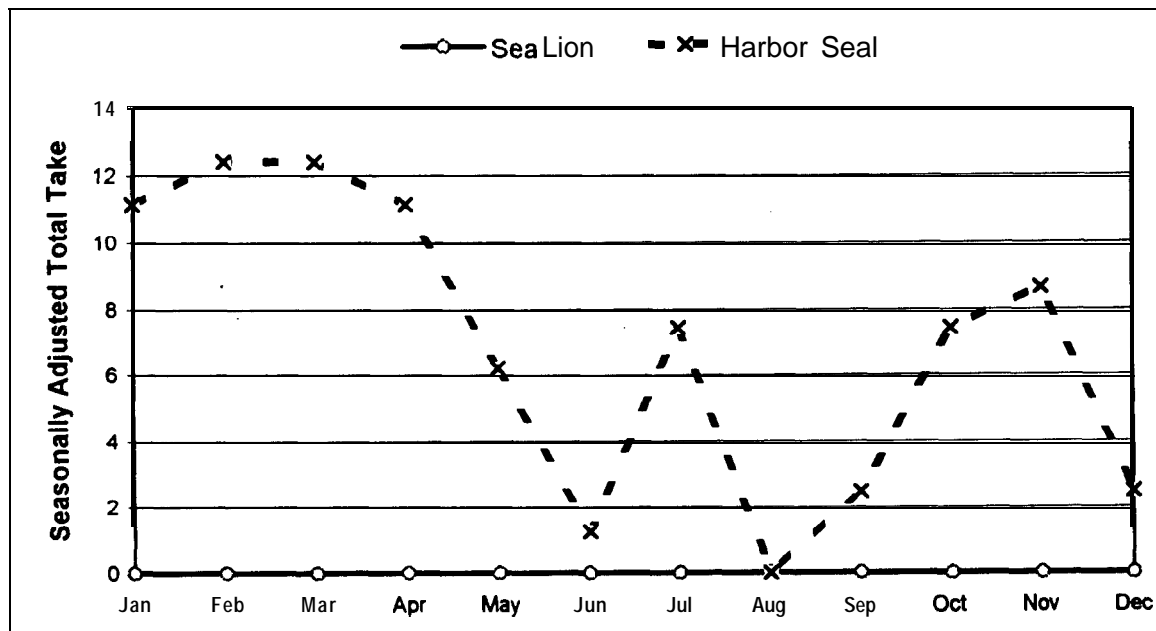
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Craig and Shaan-Seel, Inc., 1995.

Table 2. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Craig, 1995

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	--	23	41.1%	28.5	41.1%
Adult Female	0	--	0.0	--	15	26.8%	18.6	26.8%
Adult Unknown Sex	0	--	0.0	--	7	12.5%	a.7	12.5%
Juvenile Male	0	--	0.0	--	7	12.5%	0.7	12.5%
Juvenile Female	0	--	0.0	--	2	3.6%	2.5	3.6%
Juvenile Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	2	<b>3.6%</b>	2.5	3.6%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>56</b>	<b>100.0%</b>	<b>69.4</b>	<b>100.0%</b>

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	9.6	60.9
1994	0.0	0.0	0.0	1994	42.7	6.6	<b>49.3</b>
1995	0.0	0.0	0.0	1996	69.4	13.6	83.1

SCURCE: 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 Craig and Shaan-Seet, Inc., 1995.

Table 3. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Haines, 1995

**SAMPLING DESIGN:**

**CHAIN REFERRAL**

Total Referred Households	25
Surveyed Households	25
Sampling Fraction	100.6%
Sample Household Members	77
Estimated Household Members	77.0

**HARVEST AND USE INFORMATION**

*Percentage of Sample Households:*

	Sea	Harbor
	<u>Lion</u>	<u>Seal</u>
Used	0.0%	80.0%
Hunted	0.0%	48.0%
Harvested	0.0%	32.0%
Received	0.0%	60.0%
Gave Away	0.0%	36.0%

*Estimated Community Harvest and Take (Expanded):*

	Sea	Harbor
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	0.0	24.0
Total Number Struck and Lost	0.0	9.0
Total Number Taken	0.0	33.0
Number Harvested Per Capita	N/A	N/A

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum Take (%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	11	8	1	2	0	0	0	0	0	0	0	2	0	24
Struck & Lost	1	1	5	2	0	0	0	0	0	0	0	0	0	9
Total Take	12	9	6	4	0	0	0	0	0	0	0	2	0	33
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	11.0	8.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	24.0
Struck & Lost	1.0	1.0	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
Total Take	12.0	9.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	33.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	11.0	8.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	24.0
Struck & Lost	1.0	1.0	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
Total Take	12.0	9.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	33.0
Total Take (%)	36.4%	27.3%	10.2%	12.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.1%	0.0%	100.0%
Cum Take	12.0	21.0	27.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	33.0	33.0	33.0
Cum Take (%)	36.4%	63.6%	61.6%	93.9%	93.9%	93.9%	93.9%	93.9%	93.9%	93.9%	93.9%	100.0%	100.0%	100.0%

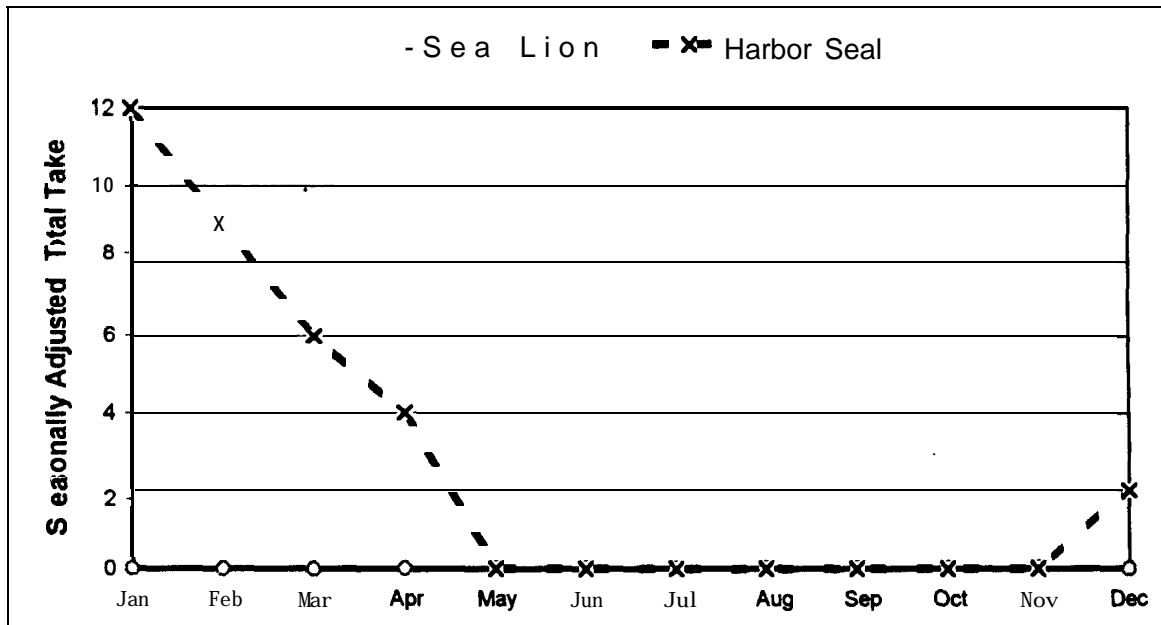
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Association, 1995

Table 3. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Haines, 1995

HARVEST BY AGE AND SEX

	SeaLion				HarborSeal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	1	4.2%	1.0	4.2%
Adult Female	0	--	0.0	--	2	8.3%	2.0	8.3%
Adult Unknown Sex	0	--	0.0	--	7	29.2%	7.0	29.2%
Juvenile Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Female	0	--	0.0	--	4	16.7%	4.0	16.7%
Juvenile Unknown Sex	0	--	0.0	--	1	4.2%	1.0	4.2%
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	--	9	37.5%	9.0	37.5%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>24</b>	<b>100.0%</b>	<b>24.0</b>	<b>100.0%</b>

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	<b>1995</b>	<b>24.0</b>	<b>9.0</b>	<b>33.0</b>

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 Association, 1995.

Table 4. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Hoonah, 1995

*SAMPLING DESIGN:*

CHAIN REFERRAL	Total Referred Households	69
	Surveyed Households	63
	Sampling Fraction	91.3%
	Sample Household Members	242
	Estimated Household Members	265.0

*HARVEST AND USE INFORMATION*

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
used	0.0%	68.3%	Total Number Harvested	0.0	236.6
Hunted	0.0%	57.1%	Total Number Struck and Lost	0.0	19.7
Harvested	0.0%	54.0%	Total Number Taken	0.0	256.3
Received	0.0%	36.5%			
Gave Away	0.0%	36.5%	Number Harvested Per Capita	N/A	N/A

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum Take(%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	30	29	27	31	16	10	4	2	13	15	17	22	0	216
struck & Lost	0	2	0	10	0	2	1	2	0	0	0	1	0	18
Total Take	30	31	27	41	16	12	5	4	13	15	17	23	0	234
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	32.9	31.8	29.6	34.0	17.5	110	44	2.2	14.2	16.4	18.6	24.1	0.0	2366
Struck & Lost	0.0	2.2	0.0	11.0	0.0	2.2	11	2.2	0.0	0.0	0.0	11	0.0	19.7
Total Take	32.9	34.0	29.6	44.9	17.5	13.1	5.5	4.4	14.2	16.4	18.6	25.2	0.0	256.3
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	32.9	31.8	29.6	340	17.5	110	44	2.2	14.2	16.4	18.6	24.1	0.0	2366
Struck & Lost	0.0	2.2	0.0	11.0	0.0	2.2	11	2.2	0.0	0.0	0.0	11	0.0	19.7
Total Take	32.9	34.0	29.6	4.49	17.5	13.1	5.5	4.4	14.2	16.4	18.6	25.2	0.0	256.3
Total Take (%)	12.8%	13.2%	11.5%	17.5%	6.8%	5.1%	2.1%	1.7%	5.6%	6.4%	7.3%	9.8%	100.0%	100.0%
Cum. Take	32.9	66.8	96.4	141.3	156.8	172.0	1774	181.8	196.0	212.5	231.1	256.3	0.0	256.3
Cum. Take (%)	12.6%	26.1%	37.6%	55.1%	62.0%	67.1%	69.2%	70.9%	76.5%	62.9%	90.2%	100.0%	0.0	100.0%

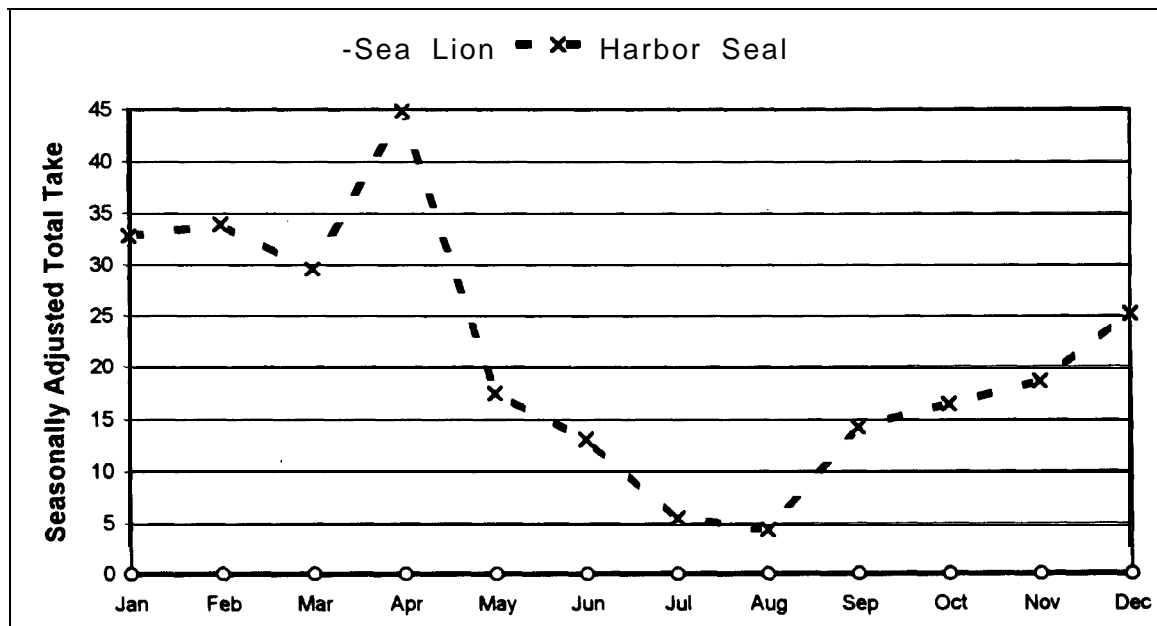
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Hoonah Traditional Council, 1995

Table 4. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Hoonah, 1995

HARVEST BY AGE AND SEX

	SeaLion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	131	60.6%	143.5	60.6%
Adult Female	0	--	0.0	--	36	16.7%	39.4	16.7%
Adult Unknown Sex	0	--	0.0	--	40	16.5%	43.0	16.5%
Juvenile Male	0	--	0.0	--	6	2.6%	6.6	2.0%
Juvenile Female	0	--	0.0	--	1	0.5%	11	0.5%
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	0.5%	1.1	0.5%
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	0.5%	1.1	0.5%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>216</b>	<b>100.0%</b>	<b>236.6</b>	<b>100.0%</b>

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	350.2	24.0	375.0
1993	0.0	0.0	0.0	1993	324.4	35.6	360.2
1994	0.0	0.0	0.0	1994	240.7	15.0	255.8
1995	0.0	0.0	0.0	1995	236.6	19.7	256.3

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 Traditional Council, 1995.

Table 5. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Hydaburg, 1995

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	14
	Surveyed Households	13
	Sampling Fraction	92.9%
	Sample Household Members	46
	Estimated Household Members	49.5

**HARVEST AND USE INFORMATION**

<b>Percentage of Sample Households:</b>			<b>Estimated Community Harvest and Take (Expanded):</b>		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
used	0.0%	38.5%	Total Number Harvested	0.0	6.5
Hunted	0.0%	30.8%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	3.8%	Total Number Taken	0.0	6.5
Received	0.0%	15.4%			
Gave Away	0.0%	30.8%	Number Harvested Per Capita	N/A	N/A

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum Take (%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	1	0	2	0	0	0	0	0	1	1	1	0	6
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	1	0	2	0	0	0	0	0	1	1	1	0	6
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	1.1	0.0	2.2	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	0.0	6.5
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	0.0	1.1	0.0	2.2	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	0.0	6.5
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	1.1	0.0	2.2	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	0.0	6.5
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	0.0	1.1	0.0	2.2	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	0.0	6.5
Total Take (%)	0.0%	16.7%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	16.7%	16.7%	0.0%	100.0%
Cum. Take	0.0	1.1	1.1	3.2	3.2	3.2	3.2	3.2	3.2	4.3	5.4	6.5	6.5	6.5
Cum. Take (%)	0.0%	16.7%	16.7%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	66.7%	83.3%	100.0%	100.0%	100.0%

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitoring Program for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Hydaburg and Haida Corporation, 1995

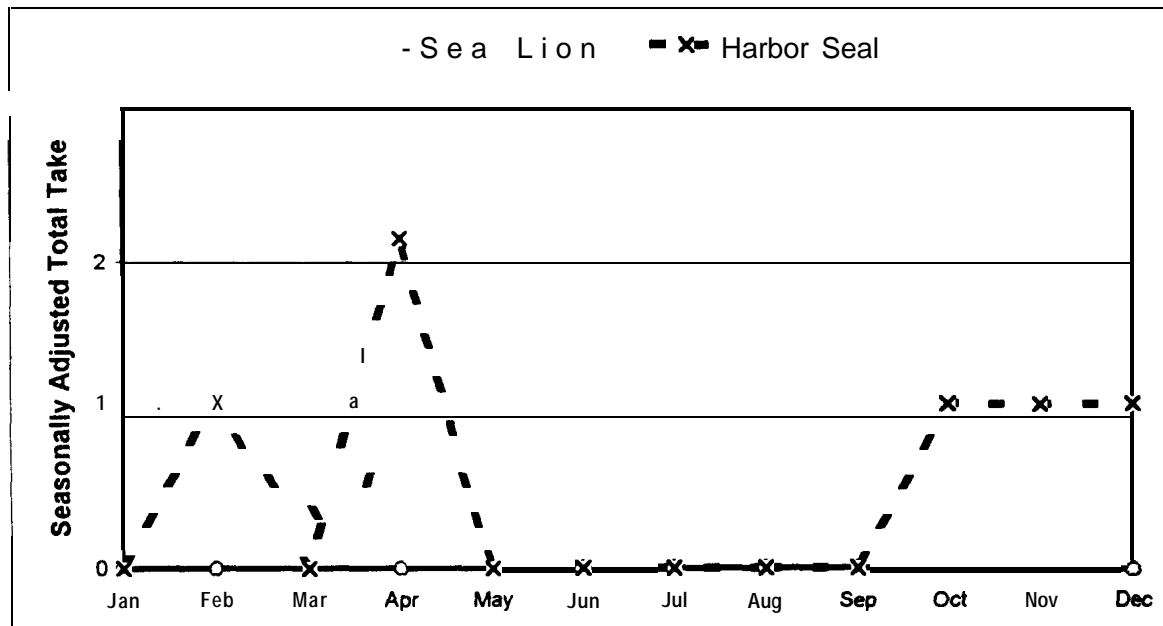


**Table 5. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Hydaburg, 1995**

*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	100.0%	6.5	100.0%
Adult Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>6</b>	<b>100.0%</b>	<b>6.5</b>	<b>100.0%</b>

*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/ Total		Year	Harvest	Struck/ Total	
		Lost	Take			Lost	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
<b>1994</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1994</b>	<b>10.0</b>	<b>0.0</b>	<b>10.0</b>
<b>1995</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1995</b>	<b>6.5</b>	<b>0.0</b>	<b>6.5</b>

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 Haii Corporation, 1995

Table 6. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Juneau, 1996

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	82
	Surveyed Households	65
	Sampling Fraction	79.3%
	Sample Household Members	205
	Estimated Household Members	258.6

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea Harbor			Sea Harbor	
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	44.6%	Total Number Harvested	0.0	42.9
Hunted	0.0%	27.7%	Total Number Struck and Lost	0.0	1.3
Harvested	0.0%	21.5%	Total Number Taken	0.0	44.2
Received	0.0%	33.8%			
Gave Away	0.0%	24.6%	Number Harvested Per Capita	N/A	N/A

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nw	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	
Cum. Take(%)	--	--	--	--	--	--	--	--	--	--	--	--	--	

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Ckt	Nw	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	3	5	2	2	2	0	2	2	3	1	a	4	0	34
Struck & Lost	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Take	4	5	2	2	2	0	2	2	3	1	a	4	0	35
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	3.0	6.3	2.5	2.5	2.5	0.0	2.5	2.5	3.8	1.3	10.1	5.0	0.0	42.9
Struck & Lost	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
Total Take	5.0	6.3	2.5	2.5	2.5	0.0	2.5	2.5	3.8	1.3	10.1	5.0	0.0	44.2
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	3.8	6.3	2.5	2.5	2.5	0.0	2.5	2.5	3.8	1.3	10.1	5.0		42.9
Struck & Lost	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	5.0	6.3	2.5	2.5	2.5	0.0	2.5	2.5	3.8	1.3	10.1	5.0		44.2
Total Take (%)	11.4%	14.3%	5.7%	57%	5.7%	00%	57%	51%	8.6%	2.9%	22.9%	11.4%		100.0%
Cum Take	5.0	11.4	13.9	16.4	19.9	19.9	21.4	24.0	27.8	29.0	39.1	44.2		
Cum. Take (%)	11.4%	25.7%	31.4%	31.1%	42.9%	42.9%	48.6%	54.3%	62.9%	65.7%	88.6%	100.0%		

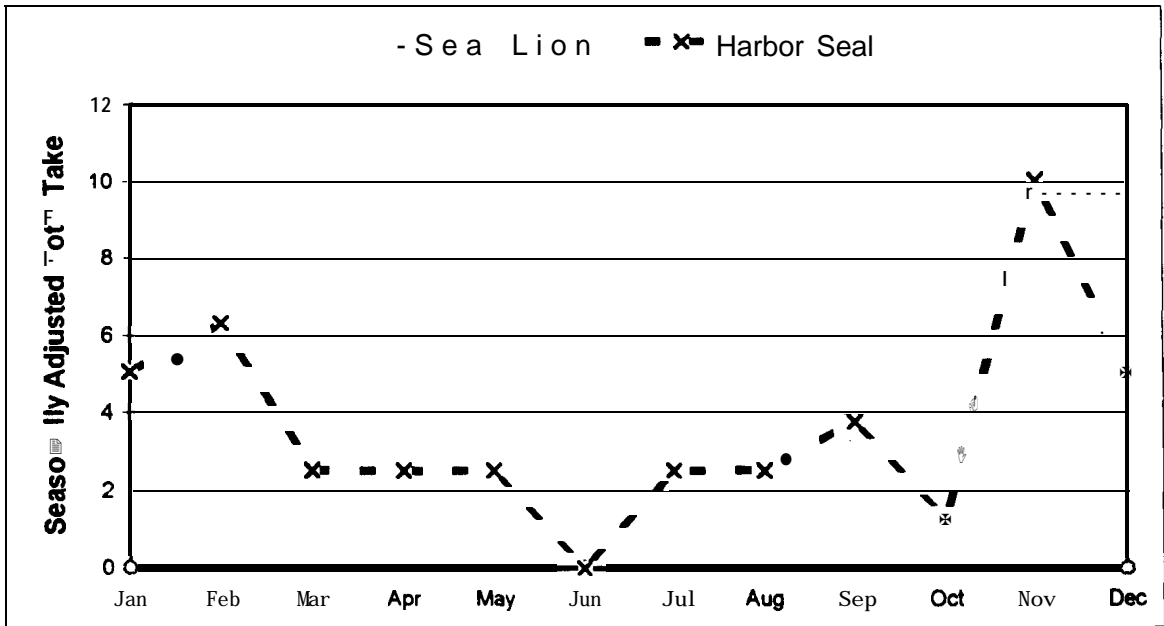
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lion and Harbor Seal in Alaska, with assistance from the Tlingit and Haida Central Council, Sealaska, Auke Tribe Council, and ANB/ANS, 1995.

Table 6. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Juneau, 1996

HARVEST BY AGE AND SEX

	sea Lion				Harbor Seal			
	Reported by		Community Est		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	19	55.9%	24.0	55.9%
Adult Female	0	--	0.0	--	4	11.0%	5.0	11.8%
Adult Unknown Sex	0	--	0.0	--	<b>8</b>	<b>23.5%</b>	10.1	23.5%
Juvenile Male	0	--	0.0	--	1	2.9%	1.3	<b>2.9%</b>
Juvenile Female	0	--	0.0	--	1	<b>2.9%</b>	1.3	2.9%
Juvenile Unknown Sex	0	--	0.0	--	1	<b>2.9%</b>	1.3	2.9%
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%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>34</b>	<b>100.0%</b>	<b>42.9</b>	<b>100.0%</b>

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	69.0	21.6	60.6
1994	1.1	0.0	1.1	1994	70.6	13.5	<b>92.1</b>
1995	0.0	0.0	0.0	1995	42.9	1.3	44.2

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 Tlingit and Haida Central Council, Sealaska, Auke Tribe Council, and ANB/ANS, 1995.

Table 7. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kake, 1995

**SAMPLING DESIGN:**

CHAIN REFERRAL	Total Referred Households	72
	Surveyed Households	49
	Sampling Fraction	68.1%
	Sample Household Members	202
	Estimated Household Members	296.8

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
used	0.0%	65.3%	Total Number Harvested	0.0	72.0
Hunted	0.0%	36.7%	Total Number Struck and Lost	0.0	1.5
Harvested	0.0%	34.1%	Total Number Taken	0.0	73.5
Received	0.0%	44.9%			
Gave Away	0.0%	34.7%	Number Harvested Per Capita	N/A	N/A

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
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	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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	7	2	1	1	1	3	4	8	5	3	11	2	49
Struck & Lost	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total Take	1	7	3	1	1	1	3	4	8	5	3	11	2	50
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.5	10.3	2.9	1.5	1.5	1.5	4.4	5.9	11.8	7.3	4.4	16.2	2.9	72.0
Struck & Lost	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Total Take	1.5	10.3	4.4	1.5	1.5	1.5	4.4	5.9	11.8	7.3	4.4	16.2	2.9	73.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.5	10.7	3.1	1.5	1.5	1.5	4.6	6.1	12.3	7.7	4.6	16.9		72.0
Struck & Lost	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.5
Total Take	1.5	10.7	4.5	1.5	1.5	1.5	4.6	6.1	12.3	7.7	4.6	16.9		73.5
Total Take (%)	2.1%	14.6%	6.2%	2.1%	2.1%	2.1%	6.3%	8.3%	16.7%	10.4%	6.3%	22.9%		100.0%
Cum. Take	1.5	12.3	16.8	18.3	19.9	21.4	26.0	32.1	44.4	52.0	56.6	73.5		
Cum. Take (%)	2.1%	16.7%	22.9%	24.9%	27.0%	29.1%	35.4%	43.1%	60.4%	70.8%	77.1%	100.0%		

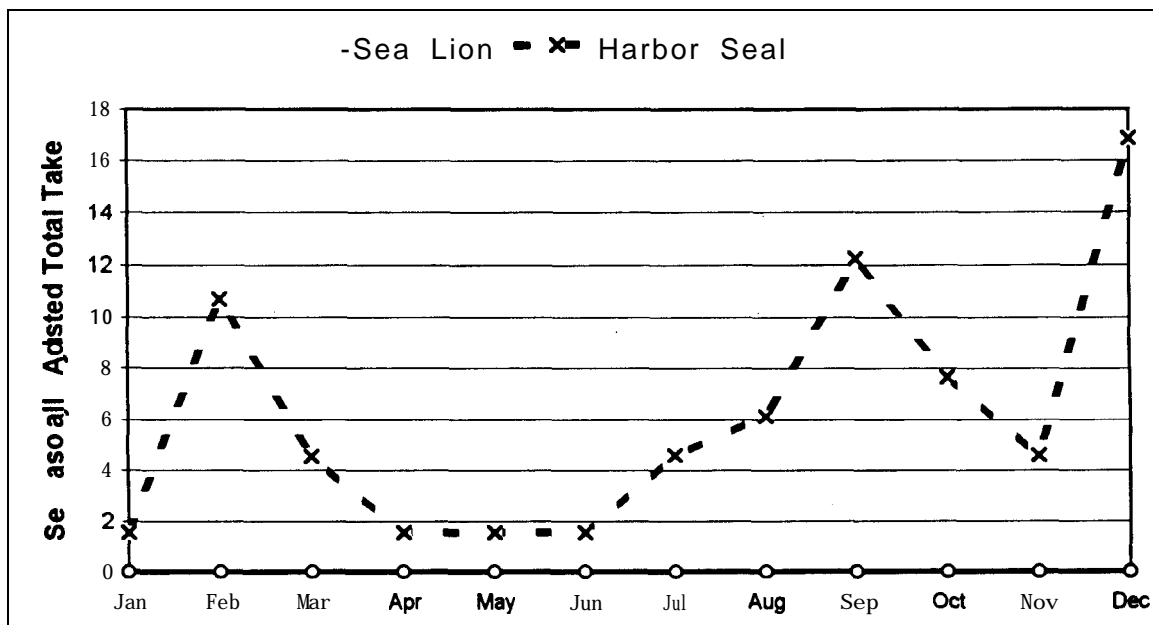
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Organized Village of Kake and City of Kake, 1995

Table 7. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kake. 1995

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by		Community Est		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	30	61.2%	44.1	61.2%
Adult Female	0	--	0.0	--	7	14.3%	10.3	14.3%
Adult Unknown Sex	0	--	0.0	--	2	4.1%	2.9	4.1%
Juvenile Male	0	--	0.0	--	10	20.4%	14.7	20.4%
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%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>49</b>	<b>100.0%</b>	<b>72.0</b>	<b>100.0%</b>

**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/ Total		Year	Harvest	Struck/ Total	
		Lost	Take			Lost	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

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, 1995

**Table 8. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ketchikan, 1995**

*SAMPLING DESIGN:*

<i>CHAIN REFERRAL</i>	Total Referred Households	19
	Surveyed Households	9
	Sampling Fraction	47.4%
	Sample Household Members	21
	Estimated Household Members	44.3

*HARVEST AND USE INFORMATION*

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea Harbor			Sea Harbor	
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	22.2%	Total Number Harvested	0.0	46.4
Hunted	0.0%	22.2%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	22.2%	Total Number Taken	0.0	46.4
Received	0.0%	0.0%			
Gave Away	0.0%	11.1%	Number Harvested Per Capita	N/A	N/A

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum. Take(%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	5	5	4	4	0	0	0	0	0	4	0	0	0	22
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	5	5	4	4	0	0	0	0	0	4	0	0	0	22
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	10.6	10.6	8.4	8.4	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.0	0.0	46.4
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	10.6	10.6	8.4	8.4	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.0	0.0	46.4
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	10.6	10.6	8.4	8.4	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.0	0.0	46.4
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	10.6	10.6	8.4	8.4	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.0	0.0	46.4
Total Take (%)	22.7%	22.7%	18.2%	18.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	18.2%	0.0%	0.0%	100.0%
Cum. Take	10.6	21.1	29.6	38.0	38.0	38.0	38.0	38.0	38.0	46.4	46.4	46.4	46.4	46.4
Cum. Take (%)	22.7%	45.5%	63.6%	81.8%	81.8%	81.8%	81.8%	81.8%	81.8%	81.8%	100.0%	100.0%	100.0%	100.0%

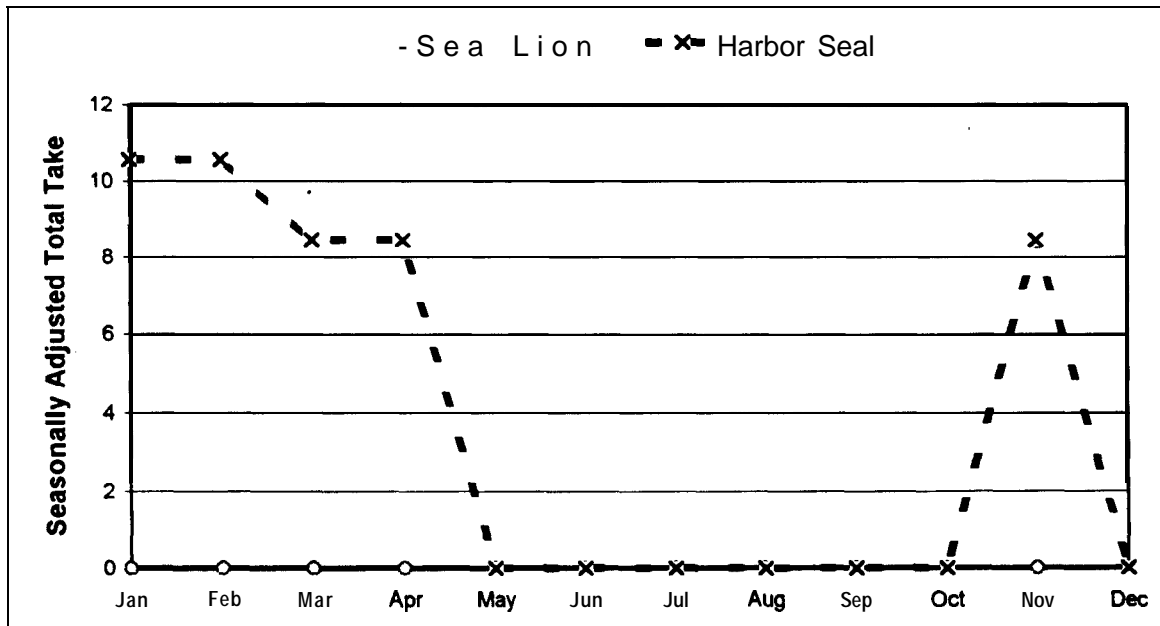
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ketchikan IRA Council and Ketchikan Indian Corporation, 1995.

Table 8. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ketchikan, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	---	12	54.5%	25.3	54.5%
Adult Female	0	---	0.0	---	10	45.5%	21.1	45.5%
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%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>---</b>	<b>22</b>	<b>100.0%</b>	<b>46.4</b>	<b>100.0%</b>

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/ Total		Year	Harvest	Struck/ Total	
		Lost	Take			Lost	Take
1992	0.0	0.0	0.0	1992	90.2	6.5	98.8
1993	0.0	0.0	0.0	1993	42.4	2.9	46.3
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Liis and Harbor Seals in Alaska, with assistance from the Ketchikan IRA Council and Ketchikan Indian Corporation, 1995

Table 9. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Klawock, 1996

*SAMPLING DESIGN:*

<i>CHAIN REFERRAL</i>	Total Referred Households	25
	Surveyed Households	20
	Sampling Fraction	60.0%
	Sample Household Members	72
	Estimated Household Members	90.0

*HARVEST AND USE INFORMATION*

*Percentage of Sample Households:*

	<i>Sea Harbor</i>	
	<u>Lion</u>	<u>Seal</u>
Used	0.0%	95.0%
Hunted	0.0%	90.0%
Harvested	0.0%	75.0%
Received	0.0%	35.0%
Gave Away	0.0%	65.0%

*Estimated Community Harvest and Take (Expanded):*

	<i>Sea Harbor</i>	
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	0.0	263.8
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	263.8

Number Harvested Per Capita *N/A*      *N/A*

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum Take (%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	48	36	24	0	0	0	4	2	2	20	27	40	0	211
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	40	36	24	0	0	0	4	2	2	20	27	40	0	211
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	60.0	45.0	30.0	0.0	0.0	0.0	5.0	2.5	2.5	35.0	33.8	50.0	0.0	283.8
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	60.0	45.0	30.0	0.0	0.0	0.0	5.0	2.5	2.5	35.0	33.8	50.0	0.0	283.8
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	60.0	45.0	30.0	0.0	0.0	0.0	5.0	2.5	2.5	35.0	33.8	50.0		263.8
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	60.0	45.0	30.0	0.0	0.0	0.0	5.0	2.5	2.5	35.0	33.8	50.0		263.0
Total Take (%)	22.7%	17.1%	11.4%	0.0%	0.0%	0.0%	1.9%	0.9%	0.9%	13.3%	12.8%	19.0%		100.0%
Cum Take	60.0	105.0	135.0	135.0	135.0	135.0	140.0	142.5	145.0	180.0	213.8	263.8		
Cum Take (%)	22.7%	39.8%	51.2%	51.2%	51.2%	51.2%	53.1%	54.0%	55.0%	68.2%	81.0%	100.0%		

SOURCE: Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lion and Harbor Seals in Alaska with assistance from the Klawock Cooperative Association and Klawock Heenya Corporation, 1995.

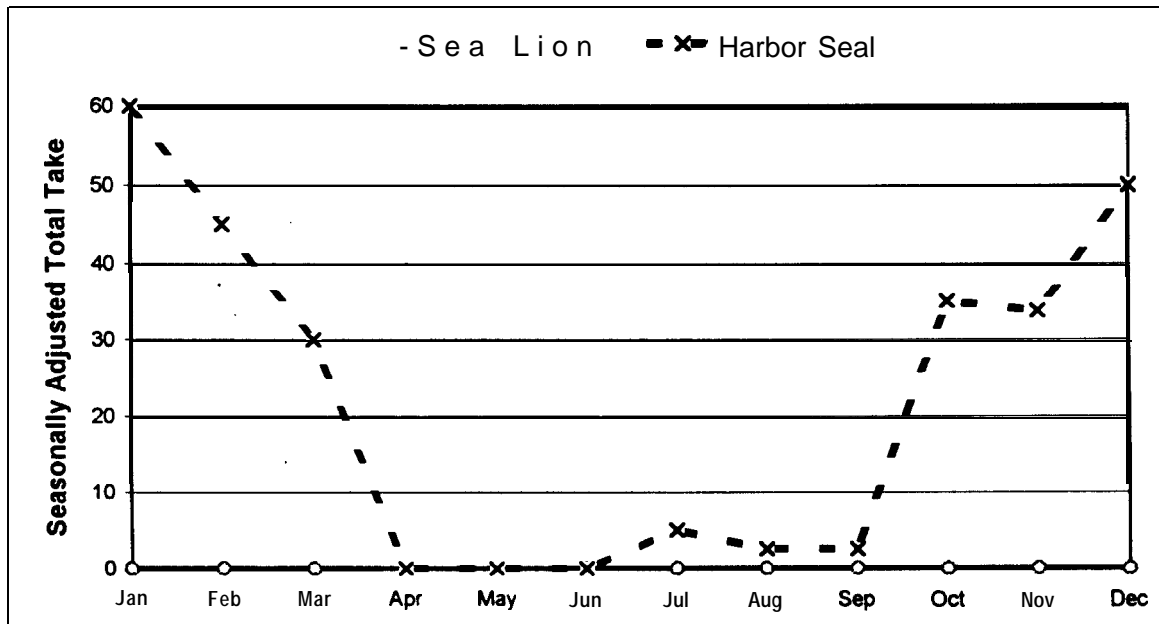


Table 9. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Klawock, 1995

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	--	120	60.7%	160.0	60.7%
Adult Female	0	--	0.0	--	28	13.3%	35.0	13.3%
Adult Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Male	0	--	0.0	--	5	2.4%	6.3	2.4%
Juvenile Female	0	--	0.0	--	6	2.6%	7.5	2.6%
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	--	15	7.1%	10.0	7.1%
Female Unknown Age	0	--	0.0	--	10	8.5%	22.5	8.5%
Unknown Sex and Age	0	--	0.0	--	11	5.2%	13.6	5.2%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>211</b>	<b>100.0%</b>	<b>263.8</b>	<b>100.0%</b>

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	283.8	0.0	283.8

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, 1995.

Table IO. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Klukwan, 1995

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	16
	Surveyed Households	5
	Sampling Fraction	31.3%
	Sample Household Members	21
	Estimated Household Members	67.2

**HARVEST AND USE INFORMATION**

<b>Percentage of Sample Households:</b>			<b>Estimated Community Harvest and Take (Expanded):</b>		
	<b>Sea Harbor</b>			<b>Sea Harbor</b>	
	<b>Lion Seal</b>			<b>Lion Seal</b>	
<b>Used</b>	0.0% 100.0%		<b>Total Number Harvested</b>	0.0	36.2
<b>Hunted</b>	0.0% 60.0%		<b>Total Number Struck and Lost</b>	0.0	6.4
<b>Harvested</b>	0.0% 60.0%		<b>Total Number Taken</b>	0.0	41.6
<b>Received</b>	0.0% 60.0%				
<b>Gave Away</b>	0.0% 40.0%		<b>Number Harvested Per Capita</b>	N/A	N/A

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum Take (%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	10	0	0	1	0	0	0	0	0	0	0	0	0	11
Struck & Lost	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Total Take	12	0	0	1	0	0	0	0	0	0	0	0	0	13
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	32.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.2
Struck & Lost	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
Total Take	36.4	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.6
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	32.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.2
Struck & Lost	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
Total Take	36.4	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.6
Total Take (%)	92.3%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	36.4	38.4	38.4	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
Cum. Take (%)	92.3%	92.3%	92.3%	100.0%	100.0%	100.0%	100.0%	160.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

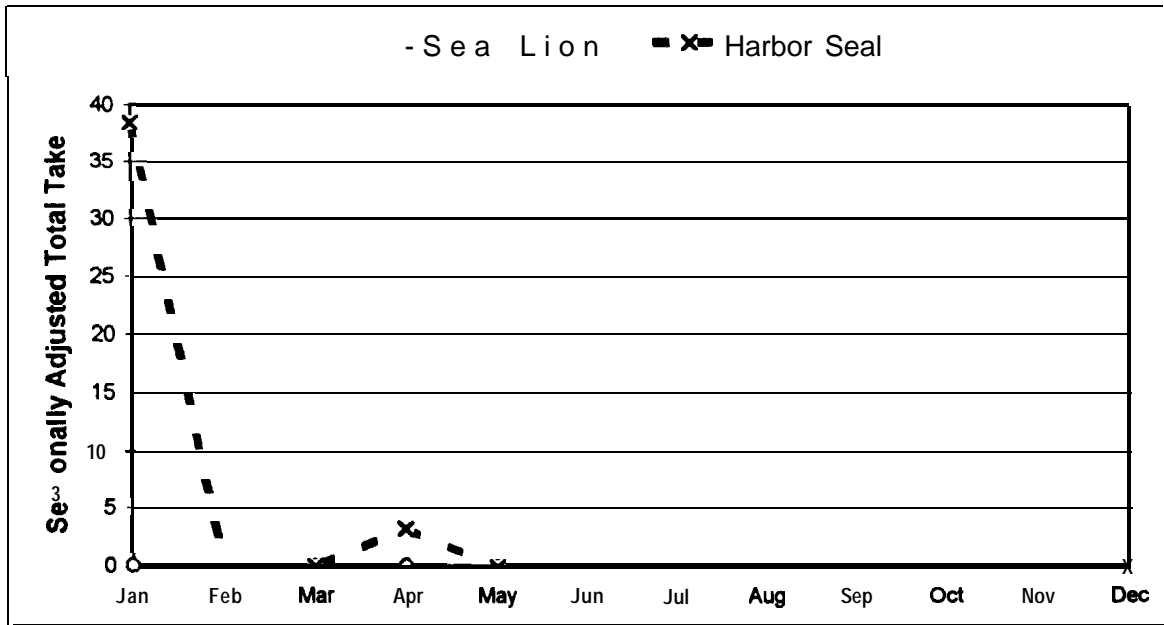
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilkat Indian Village, 1995

**Table 10. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Klukwan, 1995**

*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	9.1%	3.2	9.1%
Juvenile Male	0	---	0.0	---	2	18.2%	6.4	18.2%
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	---	8	72.7%	25.6	72.7%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>11</b>	<b>100.0%</b>	<b>35.2</b>	<b>100.0%</b>

*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	8.4	41.8

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 Chilkal Indian Village, 1995.

**Table 11. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Pelican, 1995**

*SAMPLING DESIGN:*

<i>CHAIN REFERRAL</i>	Total Referred Households	18
	Surveyed Households	16
	Sampling Fraction	88.9%
	Sample Household Members	53
	Estimated Household Members	59.6

*HARVEST AND USE INFORMATION*

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	<u>Sea Harbor</u>			<u>Sea Harbor</u>	
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
used	0.0%	87.5%	Total Number Harvested	0.0	13.5
Hunted	0.0%	438%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	43.8%	Total Number Taken	0.0	13.5
Received	0.0%	50.0%			
Gave Away	0.0%	43.8%	Number Harvested Per Capita	N/A	N/A

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Ckt	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	0	2	1	0	0	0	0	0	3	2	2	2	0	12
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	2	1	0	0	0	0	0	3	2	2	2	0	12
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	2.3	1.1	0.0	0.0	0.0	0.0	0.0	3.4	2.3	2.3	2.3	0.0	13.5
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	0.0	2.3	1.1	0.0	0.0	0.0	0.0	0.0	3.4	2.3	2.3	2.3	0.0	13.5
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	2.3	1.1	0.0	0.0	0.0	0.0	0.0	3.4	2.3	2.3	2.3	0.0	13.5
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	0.0	2.3	1.1	0.0	0.0	0.0	0.0	0.0	3.4	2.3	2.3	2.3	0.0	13.5
Total Take (%)	0.0%	16.7%	8.3%	0.0%	0.0%	0.0%	0.0%	0.0%	250%	16.7%	16.7%	16.7%	0.0%	100.0%
Cum. Take	0.0	2.3	3.4	3.4	3.4	3.4	3.4	3.4	6.8	9.0	11.3	13.5	13.5	13.5
Cum. Take (%)	0.0%	16.7%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	50.0%	66.7%	83.3%	100.0%	100.0%	100.0%

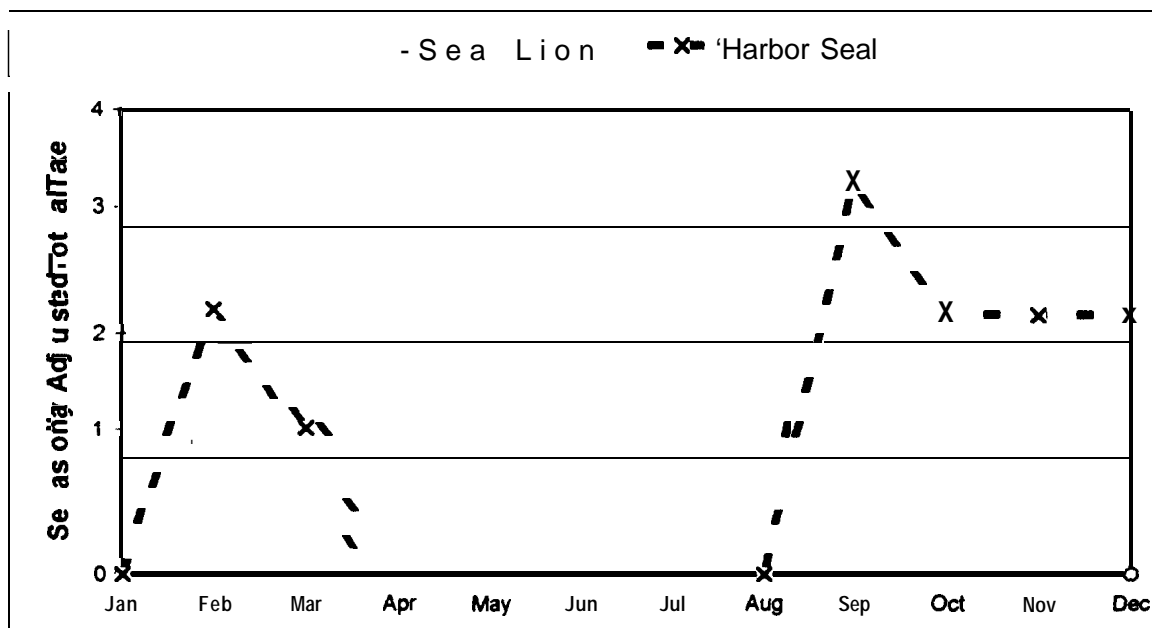
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Pelican, Tlingit and Haida Indians of Pelican Community Council, 1995.

**Table ii. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Pelican, 1995**

*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	66.7%	9.0	66.7%
Adult Female	0	--	0.0	--	3	25.0%	3.4	25.0%
Adult Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Male	0	--	0.0	--	1	0.3%	1.1	0.3%
Juvenile Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>12</b>	<b>100.0%</b>	<b>13.5</b>	<b>100.0%</b>

*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	6.3	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

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 Mans of Pelican Community Council. 1995

**Table 12. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Petersburg, 1995**

*SAMPLING DESIGN:*

<i>CHAIN REFERRAL</i>	Total Referred Households	26
	Surveyed Households	23
	Sampling Fraction	66.5%
	Sample Household Members	66
	Estimated Household Members	76.9

*HARVEST AND USE INFORMATION*

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea Harbor <u>Lion</u> <u>Seal</u>			Sea Harbor <u>Lion</u> <u>Seal</u>	
Used	0.0%   65.2%		Total Number Harvested	0.0	13.6
Hunted	0.0%   56.5%		Total Number Struck and Lost	0.0	1.1
Harvested	0.0%   43.5%		Total Number Taken	0.0	14.7
Received	0.0%   261%				
Gave Away	0.0%   30.4%		Number Harvested Per Capita	NA	NA

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum Take (%)	—	—	—	—	—	—	—	—	—	—	—	—	—	—

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Ckt	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	0	0	3	0	0	0	0	0	4	3	2	0	12	
Struck & Lost	0	0	0	0	0	0	0	0	0	1	0	0	1	
Total Take	0	0	3	0	0	0	0	0	4	4	2	0	13	
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	4.5	3.4	2.3	0.0	13.6	
Struck & Lost	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	3.4	0.0	0.0	0.0	0.0	0.0	4.5	4.5	2.3	0.0	14.7	
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	4.5	3.4	2.3	0.0	13.6	
Struck & Lost	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	3.4	0.0	0.0	0.0	0.0	0.0	4.5	4.5	2.3	0.0	14.7	
Total Take (%)	0.0%	0.0%	23.1%	0.0%	0.0%	0.0%	0.0%	0.0%	30.6%	30.8%	15.4%	0.0%	100.0%	
Cum Take	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4	7.9	12.4	14.7	14.7	14.7	
Cum Take (%)	0.0%	0.0%	23.1%	23.1%	23.1%	23.1%	23.1%	23.1%	53.8%	84.6%	100.0%	100.0%	100.0%	

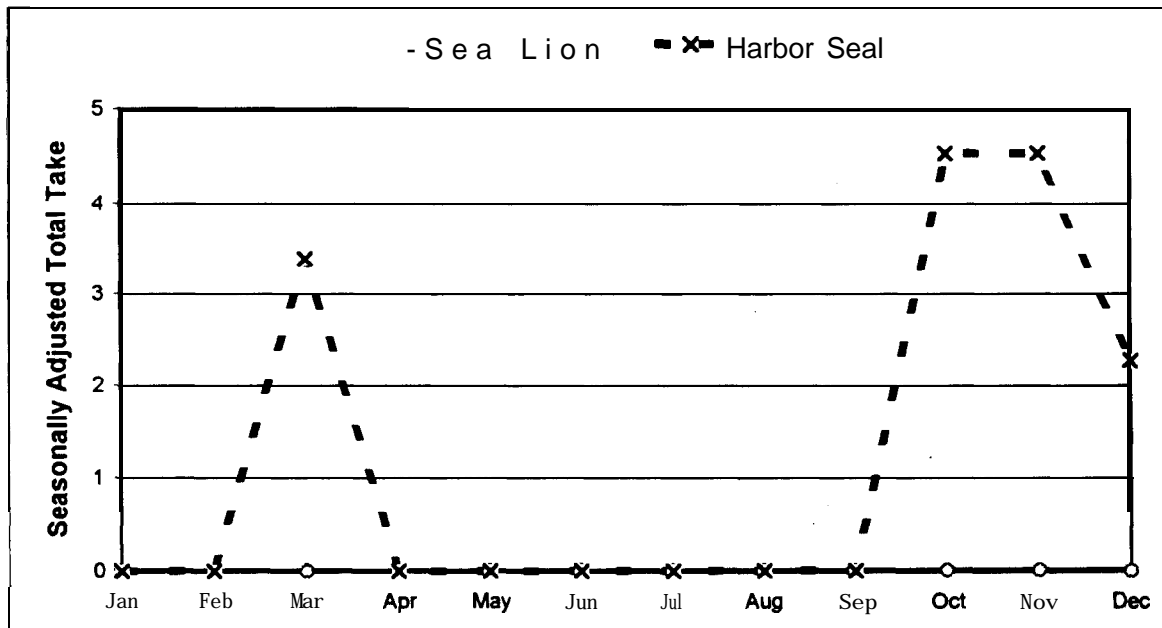
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Petersburg Indian Association, 1995.

Table 12. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Petersburg, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	8	66.7%	9.0	66.7%
Adult Female	0	--	0.0	--	3	25.0%	3.4	25.0%
Adult Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Male	0	--	0.0	--	1	8.3%	1.1	8.3%
Juvenile Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>12</b>	<b>100.0%</b>	<b>13.6</b>	<b>100.0%</b>

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

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, 1995.

Table 13. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: **Saxman, 1995**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	11
	Surveyed Households	9
	Sampling Fraction	81.8%
	Sample Household Members	43
	Estimated Household Members	52.6

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	<b>Sea Harbor</b>			<b>Sea Harbor</b>	
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
	used	0.0% 66.7%	Total Number Harvested	0.0	15.9
	Hunted	0.0% 55.6%	Total Number Struck and Lost	0.0	0.0
	Harvested	0.0% 55.6%	Total Number Taken	0.0	15.9
	Received	0.0% 55.6%			
	Gave Away	0.0% 44.4%	Number Harvested Per Capita	N/A	N/A

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	2	0	0	0	0	0	0	1	3	2	5	13
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	2	0	0	0	0	0	0	1	3	2	5	13
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.7	2.4	6.1	15.9
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	2.4	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.7	2.4	6.1	15.9
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.0	4.0	12.0	15.9
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	4.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.0	4.0	12.0	15.9
Total Take (%)	0.0%	0.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.5%	37.5%	25.6%	100.0%	100.0%
Cum. Take	0.0	0.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	11.9	15.9	15.9	15.9
Cum. Take (%)	0.0%	0.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	37.5%	75.0%	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 Saxman and Saxman IRA Council, 1995.

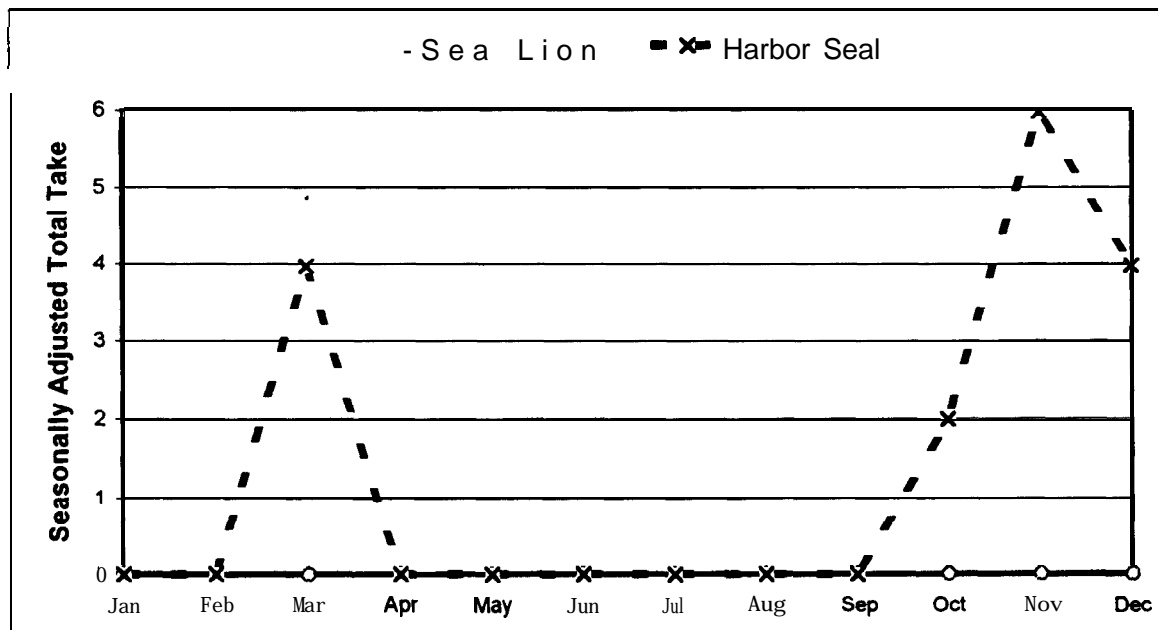


Table 13. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: **Saxman**, 1995

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	69.2%	11.0	69.2%
Adult Female	0	---	0.0	---	3	23.1%	3.7	23.1%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	1	7.7%	1.2	7.7%
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%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>13</b>	<b>100.0%</b>	<b>15.9</b>	<b>100.0%</b>

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/	Total	Year	Harvest	Struck/	Total
		Lost	Take			Lost	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

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 Saxman and Saxman IRA Council, 1995.

Table 14. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Sitka, 1995

SAMPLING DESIGN:		Active	Other	Total
TWO-STRATA	Total Native Households	75	525	600
	Surveyed Households	72	36	108
	Sampling Fraction	96.0%	6.9%	18.0%
	Sample Household Members	233	108	341
	Estimated Household Members	242.7	1575.0	1017.7

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		Sea Harbor	
	Sea Harbor Lion	Seal			Lion	Seal
used	0.0%	847%	Total Number Harvested		0.0	93.0
Hunted	0.0%	22.9%	Total Number Struck and Lost		0.0	6.3
Harvested	0.0%	6.3%	Total Number Taken		0.0	100.0
Received	0.0%	821%	Number Harvested Per Capita		0.00	0.05
Gave Away	0.0%	12.0%				

SEA LION HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Au9	Sep	Ckt	Nov	Dec	Month	
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	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
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	0.0	0.0
Cum Take/\%	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Au9	Sep	Ckt	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	7	12	14	12	2	1	4	1	5	9	13	10	0	90
Struck & Lost	0	0	1	2	0	0	0	0	0	1	2	0	0	6
Total Take	7	12	15	14	2	1	4	1	5	10	15	10	0	96
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.3	12.5	14.6	12.5	2.1	1.0	4.2	1.0	5.2	9.4	13.5	10.4	0.0	93.8
Struck & Lost	0.0	0.0	1.0	2.1	0.0	0.0	0.0	0.0	0.0	1.0	2.1	0.0	0.0	6.3
Total Take	7.3	12.5	15.6	14.6	2.1	1.0	4.2	1.0	5.2	10.4	15.6	10.4	0.0	100.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	7.3	12.5	14.6	12.5	2.1	1.0	4.2	1.0	5.2	9.4	13.5	10.4		93.8
Struck & Lost	0.0	0.0	1.0	2.1	0.0	0.0	0.0	0.0	0.0	1.0	2.1	0.0		6.3
Total Take	7.3	12.5	15.6	14.6	2.1	1.0	4.2	1.0	5.2	10.4	15.6	10.4		100.0
Total Take (%)	7.3%	12.5%	15.6%	14.6%	2.1%	1.0%	4.2%	1.0%	52%	10.4%	15.6%	10.4%		100.0%
Cum. Take	7.3	19.8	35.4	50.0	52.1	53.1	57.3	58.3	63.5	74.0	89.6	100.0		
Cum Take (%)	7.3%	19.8%	35.4%	50.0%	52.1%	53.1%	57.3%	59.3%	63.5%	74.0%	89.6%	100.0%		

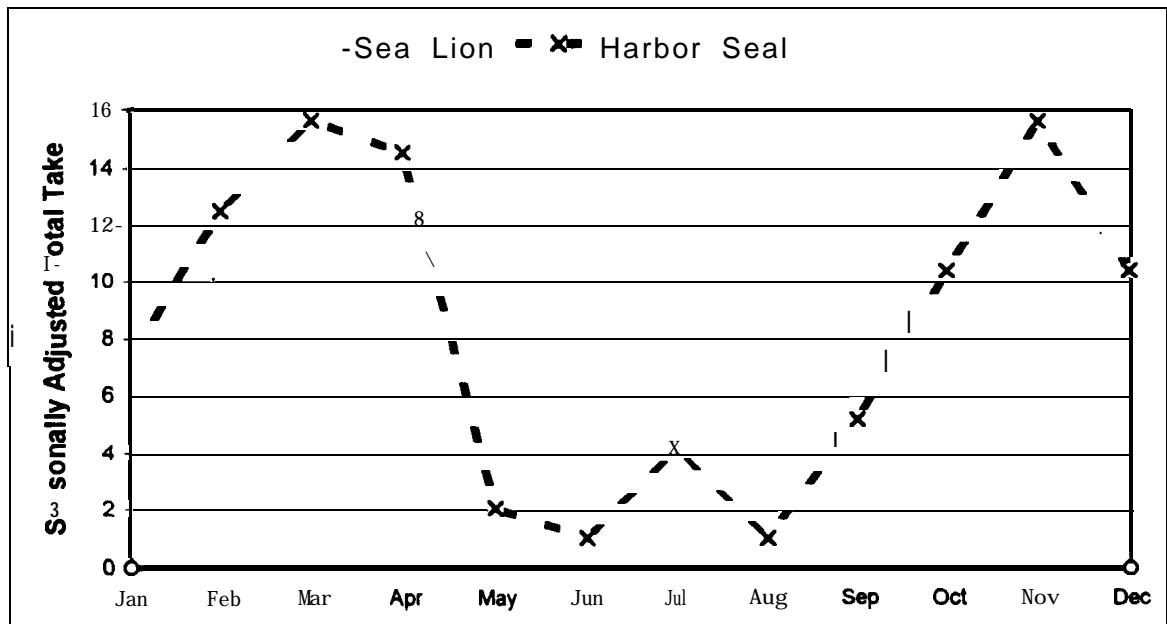
SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the ANB and Sitka Tribal Association, 1995

**Table 14. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Sitka, 1995**

*HARVEST BY AGE AND SEX*

	SeaLion				HarborSeal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	34	31.6%	35.4	37.6%
Adult Female	0	---	0.0	---	16	17.6%	16.7	17.6%
Adult Unknown Sex	0	---	0.0	---	4	4.4%	4.2	4.4%
Juvenile Male	0	---	0.0	---	24	26.7%	25.0	26.7%
Juvenile Female	0	---	0.0	---	4	4.4%	4.2	4.4%
Juvenile Unknown Sex	0	---	0.0	---	2	2.2%	2.1	2.2%
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	---	6	6.7%	6.3	6.7%
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%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>90</b>	<b>100.0%</b>	<b>93.6</b>	<b>100.0%</b>

*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	3.6	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
<b>1995</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	1996	93.8	6.3	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 ANB and Sitka Tribal Association, 1995

**Table 15. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Wrangell, 1995**

*SAMPLING DESIGN:*

*CHAIN REFERRAL*

Total Referred Households	7
Surveyed Households	4
Sampling Fraction	57.1%
Sample Household Members	10
Estimated Household Members	17.5

*HARVEST AND USE INFORMATION*

*Percentage of Sample Households:*

	Sea	Harbor
	<u>Lion</u>	<u>Seal</u>
used	0.0%	75.0%
Hunted	0.0%	100.0%
Handled	0.0%	75.0%
Received	0.0%	0.0%
Gave Away	0.0%	25.0%

*Estimated Community Harvest and Take (Expanded):*

	Sea	Harbor
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	0.0	69.3
Total Number Struck and Lost	0.0	22.8
Total Number Taken	0.0	112.0
Number Harvested Per Capita	N/A	N/A

*SEA LION HARVEST BY MONTH*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	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
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	19	1	7	4	0	0	0	0	2	1	17	0	51
Struck & Lost	0	6	2	0	0	0	0	0	0	1	1	3	0	13
Total Take	0	25	3	7	4	0	0	0	0	3	2	20	0	64
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	33.3	1.8	12.3	7.0	0.0	0.0	0.0	0.0	3.5	1.8	29.6	0.0	89.3
Struck & Lost	0.0	10.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.0	5.3	0.0	22.8
Total Take	0.0	43.8	5.3	12.3	7.0	0.0	0.0	0.0	0.0	5.3	3.5	35.0	0.0	112.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	33.3	1.8	12.3	7.0	0.0	0.0	0.0	0.0	3.5	1.8	29.8	0.0	89.3
Struck & Lost	0.0	10.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.0	5.3	0.0	22.8
Total Take	0.0	43.8	5.3	12.3	7.0	0.0	0.0	0.0	0.0	5.3	3.5	35.0	0.0	112.0
Total Take (%)	0.0%	39.1%	4.7%	10.9%	6.3%	0.0%	0.0%	0.0%	0.0%	4.7%	3.1%	31.3%	0.0%	100.0%
Cum. Take	0.0	43.8	49.0	61.3	68.3	68.3	68.3	66.3	68.3	73.5	77.0	112.0	112.0	112.0
Cum. Take (%)	0.0%	39.1%	43.8%	54.7%	60.9%	60.9%	60.9%	60.9%	60.9%	65.6%	68.8%	100.0%	100.0%	100.0%

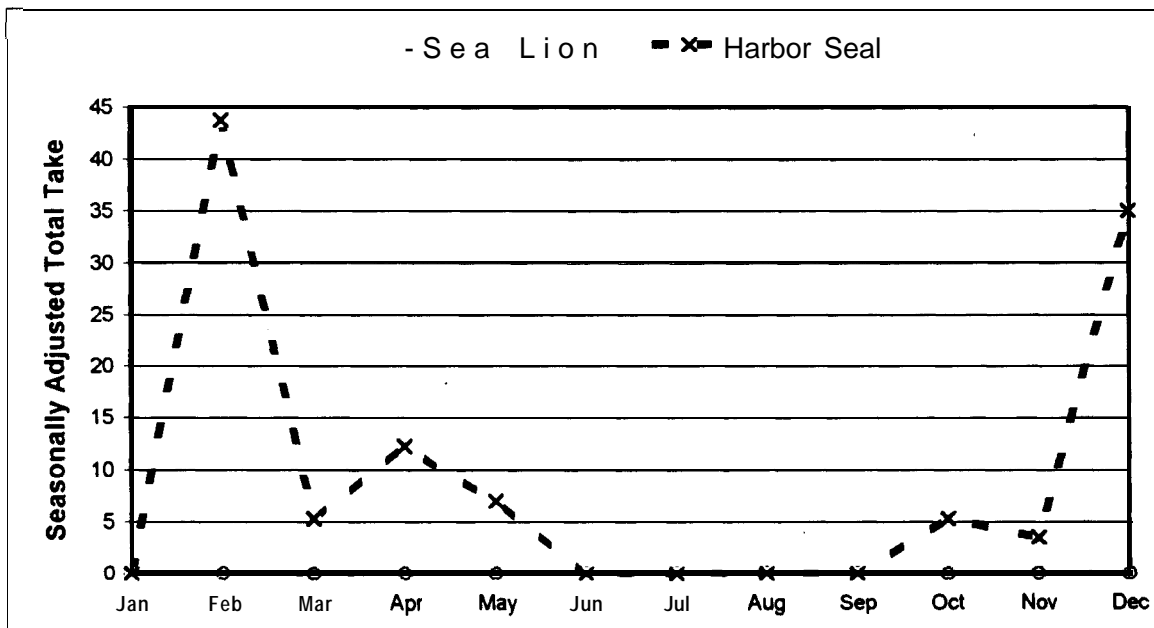
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Wrangell Cooperative Association, 1995.

**Table 15. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Wrangell, 1995**

*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	--	20	39.2%	35.0	39.2%
Adult Female	0	--	0.0	--	18	35.3%	31.5	<b>35.3%</b>
Adult Unknown Sex	0	--	0.0	--	4	7.8%	7.0	7.8%
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	--	4	7.8%	7.0	7.6%
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	--	5	9.8%	8.8	9.8%
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	<b>0.0%</b>	0.0	<b>0.0%</b>
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>51</b>	<b>100.0%</b>	<b>89.3</b>	<b>100.0%</b>

*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

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, 1995

**Table 16. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Yakutat, 1995**

*SAMPLING DESIGN:*

<i>CHAIN REFERRAL</i>	Total Referred Households	55
	Surveyed Households	47
	Sampling Fraction	05.5%
	Sample Household Members	154
	Estimated Household Members	180.2

*HARVEST AND USE INFORMATION*

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea Harbor			Sea Harbor	
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	109.0%	Total Number Harvested	0.0	615.5
Hunted	0.0%	70.2%	Total Number Struck and Lost	0.0	79.6
Harvested	0.0%	66.0%	Total Number Taken	0.0	695.1
Received	0.0%	100.0%			
Gave Away	0.0%	91.5%	Number Harvested Per Capita	NA	WA

<i>SEA LION HARVEST BY MONTH</i>												Unknown	Total	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<i>HARBOR SEAL HARVEST BY MONTH</i>												Unknown	Total	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	7	12	56	41	59	8	17	17	23	27	41	40	178	526
Struck & Lost	0	0	34	4	1	0	1	2	0	1	1	1	23	68
Total Take	7	12	90	45	60	8	18	19	23	28	42	41	201	594
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	8.2	14.0	65.5	480	690	9.4	199	19.9	269	31.6	48.0	46.8	2063	615.5
Struck & Lost	0.0	0.0	398	47	1.2	0.0	12	2.3	0.0	1.2	1.2	1.2	269	79.6
Total Take	8.2	14.0	105.3	527	702	9.4	211	22.2	269	32.8	49.1	48.0	235.2	695.1
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	12.4	21.2	99.1	72.5	1044	142	30.1	301	40.7	47.8	72.5	70.8		615.5
Struck & Lost	0.0	0.0	60.1	7.1	1.8	0.0	1.8	3.5	0.0	1.8	1.8	1.8		79.6
Total Take	12.4	21.2	159.2	79.6	1061	14.2	31.8	33.6	40.7	49.5	74.3	72.5		695.1
Total Take (%)	1.8%	3.1%	22.9%	11.5%	153%	2.9%	4.6%	4.8%	5.9%	7.1%	10.7%	10.4%		100.0%
Cum. Take	12.4	33.6	192.8	2724	378.5	392.6	424.5	456.1	498.8	548.3	622.6	695.1		
Cum. Take (%)	1.8%	4.0%	27.7%	39.2%	54.5%	56.5%	61.1%	65.9%	71.8%	78.9%	89.6%	100.0%		

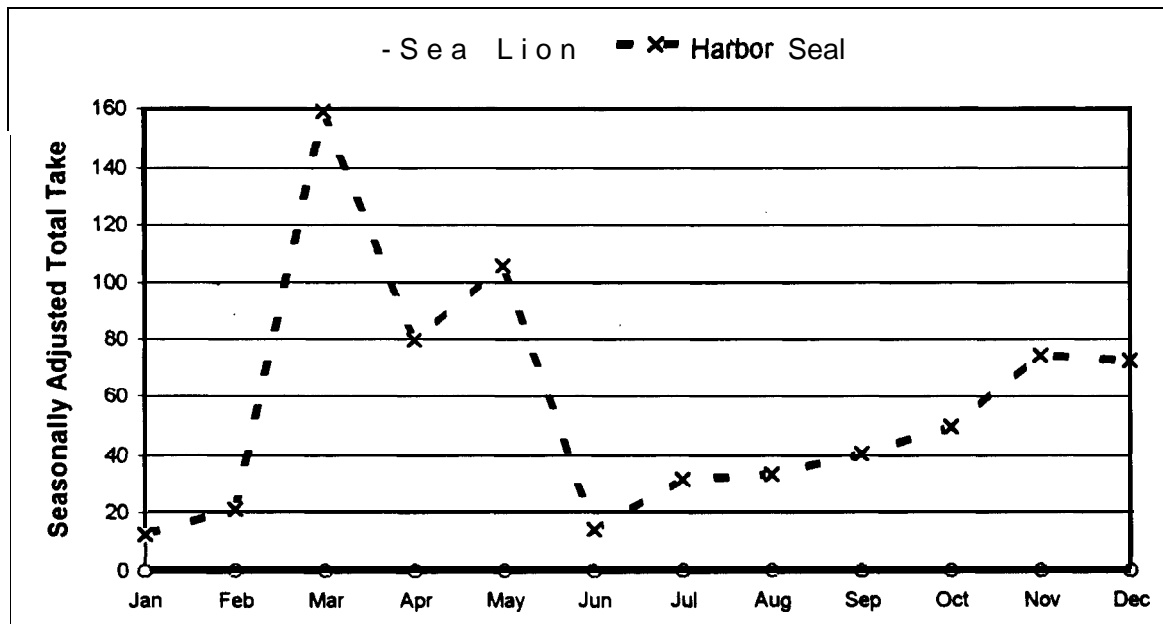
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lion and Harbor Seals in Alaska with assistance from the Yakutat ANBANS, Yakutat Native Association, and Yak-Tat Kwaan, Inc., 1995.

Table 16. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Yakutat, 1996

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	168	31.9%	196.6	31.9%
Adult Female	0	--	0.0	--	194	36.9%	227.0	36.9%
Adult Unknown Sex	0	--	0.0	--	164	31.2%	191.9	31.2%
Juvenile Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>526</b>	<b>100.0%</b>	<b>615.5</b>	<b>100.0%</b>

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	Struck/ Total			Year	Struck/ Total		
	Harvest	Lost	Take		Harvest	Lost	Take
1992	0.0	0.0	0.0	1992	246.0	61.3	309.3
1993	0.0	0.0	0.0	1993	666.4	67.4	626.6
1994	0.0	0.0	0.0	1994	417.1	35.0	462.1
1995	0.0	0.0	0.0	1996	615.5	79.6	695.1

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 Yakutat ANB/ANS, Yakutat Native Association, and Yak-Tat Kwaan, Inc., 1995

Table 17. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Chenega Bay, 1995

*SAMPLING DESIGN:*

*CENSUS*

Total Native Households	23
Surveyed Households	14
Sampling Fraction	60.9%
Sample Household Members	51
Estimated Household Members	83.8

*HARVEST AND USE INFORMATION*

*Percentage of Native Households:*

	<i>Sea Harbor</i>	
	<u>Lion</u>	<u>Seal</u>
<b>Used</b>	50.0%	57.1%
<b>Hunted</b>	35.7%	42.9%
<b>Harvested</b>	14.3%	42.9%
<b>Received</b>	42.9%	57.1%
<b>Gave Away</b>	14.3%	42.9%

*Estimated Community Harvest and Take (Expanded):*

	<i>Sea Harbor</i>	
	<u>Lion</u>	<u>Seal</u>
<b>Total Number Harvested</b>	6.6	444
<b>Total Number Struck and Lost</b>	0.0	1.6
<b>Total Number Taken</b>	6.6	46.0
<b>Number Harvested Per Capita</b>	0.08	0.53

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Au9	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	2	0	0	0	0	0	0	0	0	0	0	2	0	4
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	0	0	0	0	0	0	0	0	0	0	2	0	4
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	6.6
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	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	6.6
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	6.6
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	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	6.6
Total Take (%)	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	100.0%
Cum. Take	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.6	6.6	6.6
Cum. Take (%)	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	100.0%	100.0%	100.0%

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Au9	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	1	3	4	0	0	5	0	3	0	4	2	3	2	27
Struck & Lost	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Total Take	1	3	5	0	0	5	0	3	0	4	2	3	2	28
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	1.6	4.9	6.6	0.0	0.0	8.2	0.0	4.9	0.0	6.6	3.3	4.9	3.3	44.4
Struck & Lost	0.0	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	4.9	8.2	0.0	0.0	8.2	0.0	4.9	0.0	6.6	3.3	4.9	3.3	46.0
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	1.8	5.3	7.1	0.0	0.0	8.9	0.0	5.3	0.0	7.1	3.5	5.3	3.5	44.4
Struck & Lost	0.0	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	1.8	5.3	8.7	0.0	0.0	8.9	0.0	5.3	0.0	7.1	3.5	5.3	3.5	46.0
Total Take (%)	3.9%	11.6%	19.0%	0.0%	0.0%	19.3%	0.0%	11.6%	0.0%	15.4%	7.7%	11.6%	11.6%	100.0%
Cum. Take	1.6	7.1	15.8	15.8	15.8	24.7	24.7	30.0	30.0	37.1	40.7	46.0	46.0	46.0
Cum. Take (%)	3.9%	15.4%	34.4%	34.4%	34.4%	53.7%	53.7%	65.3%	65.3%	80.7%	68.4%	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 Chenega Bay IRA Council, 1995

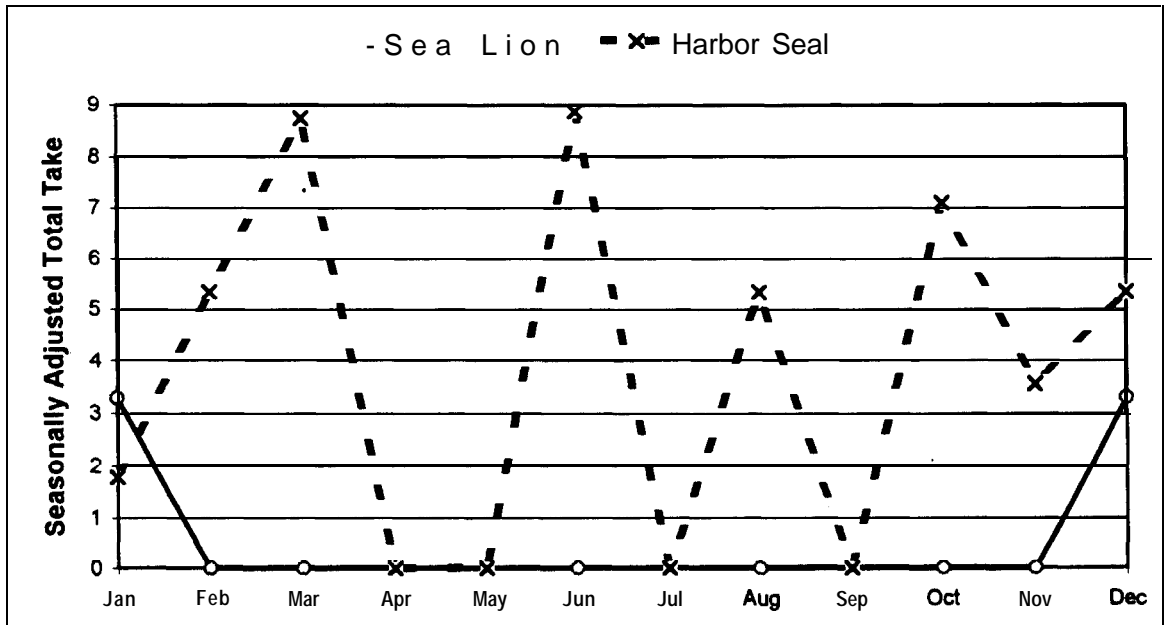


Table 17. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Chenega Bay, 1995

HARVESTBY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	2	50.0%	3.3	50.0%	10	37.0%	16.4	37.0%
Adult Female	1	25.0%	1.6	25.0%	2	7.4%	3.3	7.4%
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%	7	25.9%	11.5	25.9%
Juvenile Female	1	25.0%	1.6	25.0%	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%	6	22.2%	9.9	22.2%
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%	2	7.4%	3.3	7.4%
<b>Total</b>	<b>4</b>	<b>100.0%</b>	<b>6.6</b>	<b>100.0%</b>	<b>27</b>	<b>100.0%</b>	<b>44.4</b>	<b>100.0%</b>

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

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, 1995.

Table 18. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: **Cordova, 1995**

<b>SAMPLING DESIGN:</b>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>	<b>Total Native Households</b>	<b>14</b>	<b>218</b>	<b>232</b>
	<b>Surveyed Households</b>	14	24	36
	<b>Sampling Fraction</b>	100.0%	11.0%	16.4%
	<b>Sample Household Members</b>	37	66	103
	<b>Estimated Household Members</b>	37.0	599.5	636.5

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>	
	<u>Sea Lion</u>	<u>Harbor Seal</u>	<u>Sea Lion</u>	<u>Harbor Seal</u>
<b>Used</b>	0.0%	30.9%	<b>Total Number Harvested</b>	0.0    83.4
<b>Hunted</b>	0.4%	9.6%	<b>Total Number Struck and Lost</b>	1.0    2.0
<b>Harvested</b>	0.0%	9.6%	<b>Total Number Taken</b>	1.0    65.4
<b>Received</b>	0.0%	22.2%		
<b>Gave Away</b>	0.0%	10.0%	<b>Number Harvested Per Capita</b>	0.00    0.13

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Total Take	0	0	0	0	1	0	0	0	0	0	0	0	0	1
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Total Take	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Total Take	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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%	0.0%	100.0%
Cum Take	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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%	100.0%	100.0%

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	6	7	0	0	2	2	0	1	2	5	11	7	0	43
Struck & Lost	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Total Take	6	9	0	0	2	2	0	1	2	5	11	7	0	45
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	6.0	15.1	0.0	0.0	18.2	18.2	0.0	1.0	2.0	5.0	11.0	7.0	0.0	83.4
Struck & Lost	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Total Take	6.0	17.1	0.0	0.0	18.2	18.2	0.0	1.0	2.0	5.0	11.0	7.0	0.0	85.4
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	6.0	15.1	0.0	0.0	18.2	18.2	0.0	1.0	2.0	5.0	11.0	7.0	0.0	63.4
Struck & Lost	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Total Take	6.0	17.1	0.0	0.0	18.2	18.2	0.0	1.0	2.0	5.0	11.0	7.0	0.0	85.4
Total Take (%)	7.0%	20.0%	0.0%	0.0%	21.3%	21.3%	0.0%	1.2%	2.3%	5.9%	12.9%	8.2%	0.0%	100.0%
Cum. Take	6.0	23.1	23.1	23.1	41.3	59.4	59.4	60.4	62.4	67.4	70.4	65.4	65.4	65.4
Cum. Take (%)	7.0%	27.0%	27.0%	27.0%	48.3%	69.6%	69.6%	70.7%	73.1%	78.9%	91.8%	100.0%	100.0%	100.0%

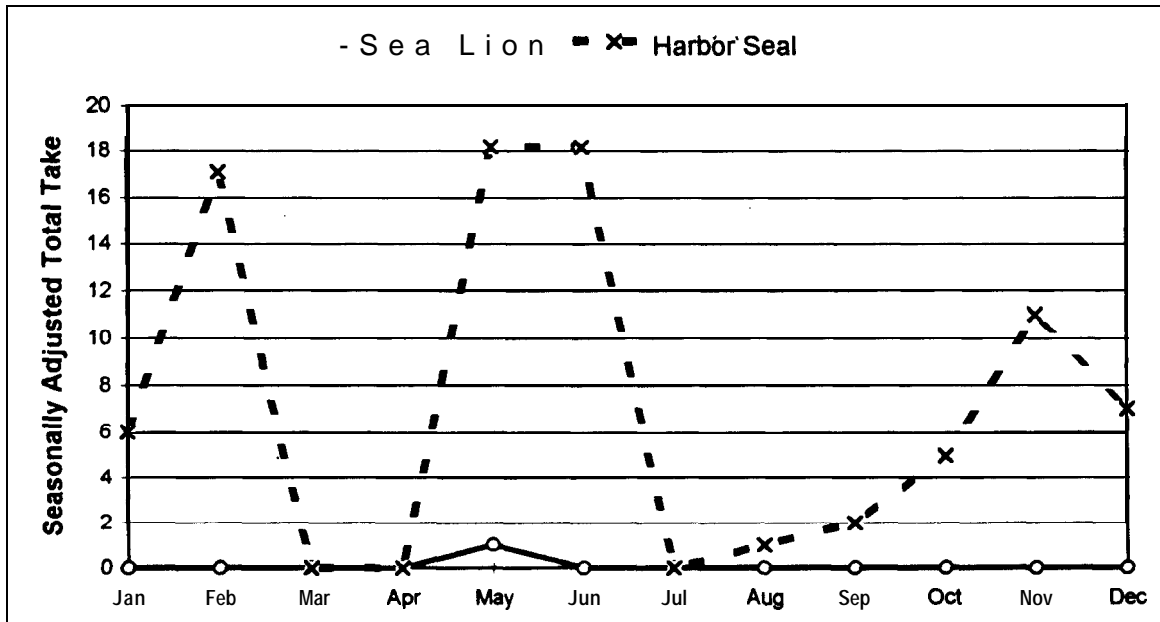
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, **Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska**, with assistance from the **Traditional Village of Eyak, 1995**

**Table 18. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Cordova, 1995**

*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	--	18	41.9%	34.2	41.0%
Adult Female	0	---	0.0	--	12	27.9%	28.2	33.8%
Adult Unknown Sex	0	--	0.0	---	1	2.3%	9.1	10.9%
Juvenile Male	0	---	0.0	--	0	0.0%	0.0	0.0%
Juvenile Female	0	--	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	--	5	11.6%	5.0	6.0%
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	---	7	16.3%	7.0	8.4%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>--</b>	<b>a</b>	<b>100.0%</b>	<b>83.4</b>	<b>100.0%</b>

*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/ Total		Year	Harvest	Struck/ Total	
		Lost	Take			Lost	Take
1992	0.0	0.0	0.0	1992	103.6	6.8	112.5
1993	1.5	0.0	1.5	1993	147.4	5.5	152.9
1994	0.0	0.0	0.0	1994	135.6	9.1	144.9
1995	0.0	1.0	1.0	1995	03.4	2.0	85.4

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 Traditional Village of Eyak, 1995

**Table 19. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Nanwalek, 1995**

*SAMPLING DESIGN:*

<i>CENSUS</i>	Total Native Households	40
	Surveyed Households	39
	Sampling Fraction	97.5%
	Sample Household Members	157
	Estimated Household Members	161.0

*HARVEST AND USE INFORMATION*

*Percentage of Native Households:*

	Sea Harbor	
	<u>Lion</u>	<u>Seal</u>
used	59.0%	92.3%
Hunted	20.5%	33.3%
Harvested	12.8%	25.6%
Received	53.8%	07.2%
Gave Away	25.6%	25.6%

*Estimated Community Harvest and Take (Expanded):*

	Sea Harbor	
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	9.2	23.6
Total Number Struck and Lost	0.0	0.0
Total Number Taken	9.2	23.6
Number Harvested Per Capita	0.06	0.15

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	1	2	0	0	3	0	1	0	0	0	1	1	0	9
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	2	0	0	3	0	1	0	0	0	1	1	0	9
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.0	2.1	0.0	0.0	3.1	0.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	9.2
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	1.0	2.1	0.0	0.0	3.1	0.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	9.2
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.0	2.1	0.0	0.0	3.1	0.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	9.2
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	1.0	2.1	0.0	0.0	3.1	0.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	9.2
Total Take (%)	11.1%	22.2%	0.0%	0.0%	33.3%	0.0%	11.1%	0.0%	0.0%	0.0%	11.1%	11.1%	0.0%	100.0%
Cum Take	1.0	3.1	3.1	3.1	6.2	6.2	7.2	7.2	7.2	7.2	8.2	9.2	9.2	9.2
Cum Take (%)	11.1%	33.3%	33.3%	33.3%	66.7%	66.7%	77.0%	77.0%	77.0%	77.0%	88.9%	100.0%	100.0%	100.0%

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	2	1	5	0	0	0	5	8	0	0	1	1	0	23
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	1	5	0	0	0	5	8	0	0	1	1	0	23
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	2.1	1.0	5.1	0.0	0.0	0.0	5.1	8.2	0.0	0.0	1.0	1.0	0.0	23.6
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	2.1	1.0	5.1	0.0	0.0	0.0	5.1	8.2	0.0	0.0	1.0	1.0	0.0	23.6
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	2.1	1.0	5.1	0.0	0.0	0.0	5.1	8.2	0.0	0.0	1.0	1.0	0.0	23.6
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	2.1	1.0	5.1	0.0	0.0	0.0	5.1	8.2	0.0	0.0	1.0	1.0	0.0	23.6
Total Take (%)	8.7%	4.3%	21.7%	0.0%	0.0%	0.0%	21.7%	34.8%	0.0%	0.0%	4.3%	4.3%	0.0%	100.0%
Cum. Take	2.1	3.1	8.2	8.2	8.2	8.2	13.3	21.5	21.5	21.5	22.6	23.6	23.6	23.6
Cum. Take (%)	8.7%	13.0%	34.8%	34.8%	34.8%	34.8%	56.5%	91.3%	91.3%	91.3%	95.7%	100.0%	100.0%	100.0%

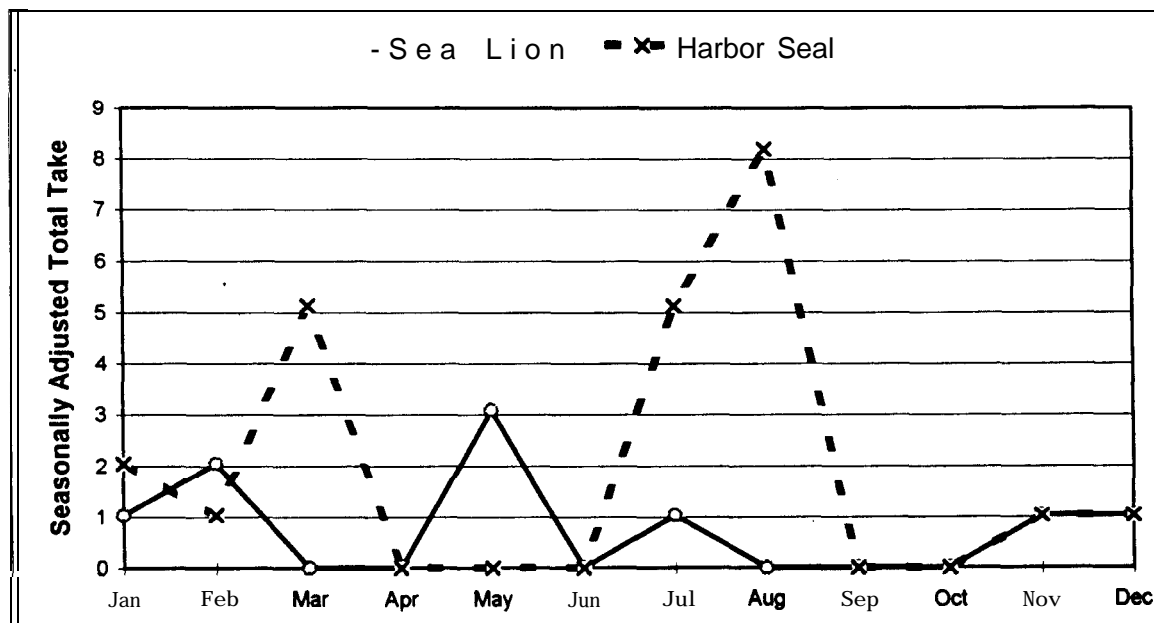
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nanwalek Traditional Council and English Bay Corporation, 1995

**Table 19. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Nanwalek, 1995**

*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	55.6%	5.1	55.6%	5	21.7%	5.1	21.7%
Adult Female	1	11.1%	1.0	11.1%	2	6.7%	2.1	8.7%
Adult Unknown Sex	1	11.1%	1.0	11.1%	5	21.7%	5.1	21.7%
Juvenile Male	1	11.1%	1.0	11.1%	4	17.4%	4.1	17.4%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	11.1%	1.0	11.1%	6	<b>26.1%</b>	6.2	<b>26.1%</b>
Pup Male	0	0.0%	0.0	0.0%	1	4.3%	1.0	4.3%
Pup Female	0	<b>0.0%</b>	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%
<b>Total</b>	<b>9</b>	<b>100.0%</b>	<b>9.2</b>	<b>100.0%</b>	<b>23</b>	<b>100.0%</b>	<b>23.6</b>	<b>100.0%</b>

*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
<b>1995</b>	<b>9.2</b>	<b>0.0</b>	<b>9.2</b>	<b>1995</b>	<b>23.6</b>	<b>0.0</b>	<b>23.6</b>

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, 1995.

**Table 20. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Port Graham, 1995**

*SAMPLING DESIGN:*

*CENSUS*

Total Native Households	58
Surveyed Households	58
Sampling Fraction	100.0%
Sample Household Members	160
Estimated Household Members	160.0

*HARVEST AND USE INFORMATION*

*Percentage of Native Households:*

	<u>Sea Harbor</u>	
	<u>Lion</u>	<u>Seal</u>
Used	60.3%	87.9%
Hunted	12.1%	22.4%
Harvested	10.3%	8.6%
Received	55.2%	84.5%
Gave Away	13.8%	138%

*Estimated Community Harvest and Take (Expanded):*

	<u>Sea Harbor</u>	
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	10.0	23.0
Total Number Struck and Lost	2.0	0.0
Total Number Taken	12.0	23.0
Number Harvested Per Capita	0.06	0.14

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Au9	Sep	Ckt	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	4	4	0	0	0	0	0	0	0	1	1	0	10
Struck & Lost	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Total Take	0	4	6	0	0	0	0	0	0	0	1	1	0	12
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	10.0
Struck & Lost	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Total Take	0.0	4.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	12.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	10.0
Struck & Lost	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Total Take	0.0	4.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	12.0
Total Take (%)	0.0%	33.3%	50.0%	00%	00%	00%	0.0%	0.0%	0.0%	0.0%	8.3%	8.3%	0.0%	100.0%
Cum Take	0.0	4.0	10.0	100	100	100	10.0	10.0	10.0	10.0	11.0	12.0	0.0	12.0
Cum Take (%)	0.0%	33.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	91.7%	100.0%	0.0%	100.0%

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Au9	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	8	0	1	0	0	0	3	0	0	0	8	3	0	23
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	8	0	1	0	0	0	3	0	0	0	8	3	0	23
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	8.0	0.0	1.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	8.0	3.0	0.0	23.0
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	8.0	0.0	1.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	8.0	3.0	0.0	23.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	8.0	0.0	1.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	8.0	3.0	0.0	23.0
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	8.0	0.0	1.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	8.0	3.0	0.0	23.0
Total Take (%)	34.6%	0.0%	4.3%	0.0%	00%	00%	130%	0.0%	0.0%	0.0%	34.6%	13.0%	0.0%	100.0%
Cum. Take	8.0	8.0	9.0	9.0	9.0	9.0	12.0	12.0	12.0	12.0	20.0	23.0	0.0	23.0
Cum. Take (%)	34.8%	34.8%	39.1%	39.1%	39.1%	39.1%	52.2%	52.2%	52.2%	52.2%	87.0%	100.0%	0.0%	100.0%

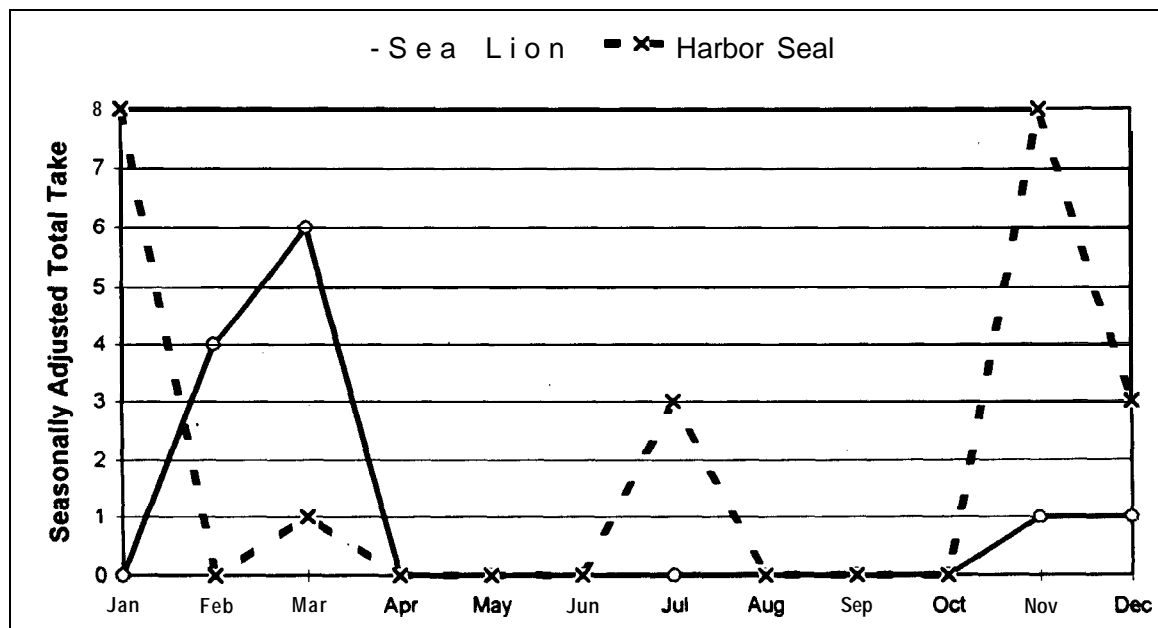
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Graham Village Council and Port Graham Corporation, 1995

Table 20. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Graham, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	1	10.0%	1.0	10.0%	9	39.1%	9.0	39.1%
Adult Female	0	0.0%	0.0	0.0%	2	8.7%	2.0	0.7%
Adult Unknown Sex	2	20.0%	2.0	20.0%	4	17.4%	4.0	17.4%
Juvenile Male	1	10.0%	1.0	10.0%	7	30.4%	7.0	30.4%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	6	60.0%	6.0	60.0%	1	4.3%	1.0	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%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>10</b>	<b>100.0%</b>	<b>10.0</b>	<b>100.0%</b>	<b>23</b>	<b>100.0%</b>	<b>23.0</b>	<b>100.0%</b>

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/ Total		Year	Harvest	Struck/ Total	
		Lost	Take			Lost	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

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, 1995

Table 21. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Seldovia, 1995

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>	Total Native Households	12	29	41
	Surveyed Households	12	29	41
	Sampling Fraction	100.0%	100.0%	100.0%
	Sample Household Members	34	73	107
	Estimated Household Members	34.0	73.0	107.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
Sea Harbor			Sea Harbor		
Lion	Seal		Lion	Seal	
used 14.6%	34.1%		Total Number Harvested	0.0	4.0
Hunted 0.0%	12.2%		Total Number Struck and Lost	0.0	0.0
Harvested 0.0%	4.9%		Total Number Taken	0.0	4.0
Received 14.6%	31.7%				
Gave Away 2.4%	7.3%		Number Harvested Per Capita	0.00	0.04

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	1	1	0	0	0	0	0	0	1	0	1	0	0	4
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	1	0	0	0	0	0	0	1	0	1	0	0	4
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	4.0
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	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	4.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	4.0
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	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	4.0
Total Take (%)	25.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	75.0%	75.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cum Take	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	4.0	4.0	4.0	4.0
Cum Take (%)	25.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	75.0%	75.0%	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 Seldovia Native Association, 1995.

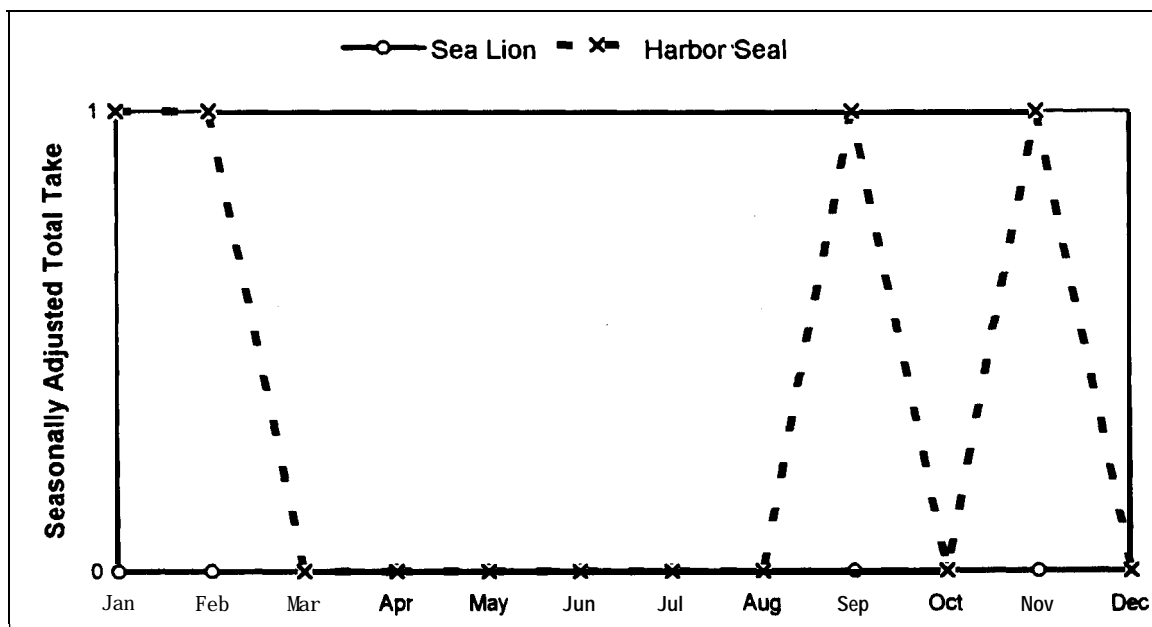


Table 21. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Seldovia, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	2	50.0%	2.0	50.0%
Adult Female	0	---	0.0	---	1	25.0%	1.0	25.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	1	25.0%	1.0	25.0%
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%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>4</b>	<b>100.0%</b>	<b>4.0</b>	<b>100.0%</b>

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
<b>1995</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1995</b>	<b>4.0</b>	<b>0.0</b>	<b>4.0</b>

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, 1995

Table 22. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Seward, 1995

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>	Total Native Households	12	147	159
	Surveyed Households	11	29	40
	Sampling Fraction	91.7%	19.7%	25.2%
	Sample Household Members	42	73	115
	Estimated Household Members	45.8	370.0	415.9

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>	
	<u>Sea Harbor</u>	<u>Lion</u>	<u>Sea Harbor</u>	<u>Lion</u>
	<u>Lion</u>	<u>Seal</u>	<u>Lion</u>	<u>Seal</u>
used	0.0%	13.7%	Total Number Harvested	0.0 10.9
Hunted	0.0%	0.7%	Total Number Struck and Lost	0.0 5.5
Harvested	0.0%	0.7%	Total Number Taken	0.0 16.4
Received	0.0%	13.0%		
Gave Away	0.0%	07%	Number Harvested Per Capita	0.00 0.03

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	4	2	0	0	0	0	0	0	0	4	0	0	0	10
Struck & Lost	1	0	0	0	0	0	0	0	0	4	0	0	0	5
Total Take	5	2	0	0	0	0	0	0	0	8	0	0	0	15
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	10.9
Struck & Lost	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	5.5
Total Take	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	16.4
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	10.9
Struck & Lost	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	5.5
Total Take	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0	16.4
Total Take (%)	33.3%	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	53.3%	0.0%	0.0%	0.0%	100.0%
Cum. Take	5.5	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	16.4	16.4	16.4	16.4	16.4
Cum. Take (%)	33.3%	46.7%	46.7%	46.7%	46.7%	46.7%	46.7%	46.7%	46.7%	100.0%	100.0%	100.0%	100.0%	100.0%

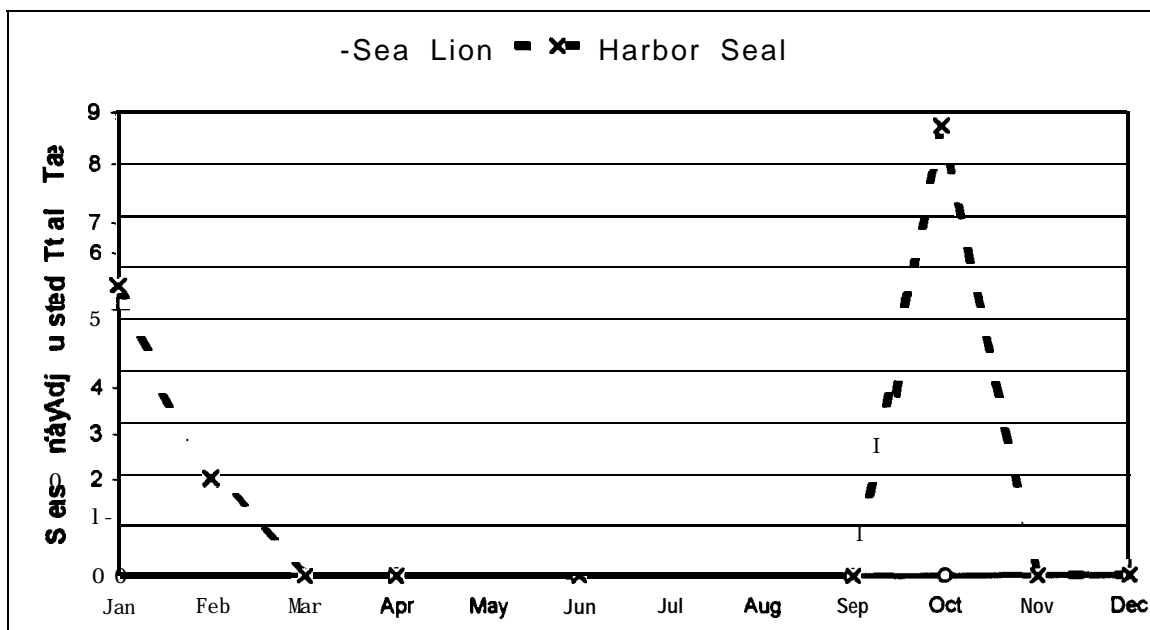
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qutekcah Native Tribe, 1995

Table 22. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Seward, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	7	70.0%	7.6	70.0%
Adult Female	0	--	0.0	--	3	30.0%	3.3	30.0%
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%	10.9	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	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	18.4

SDURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lion and Harbor Seals in Alaska, with assistance from the Qutekcah Native Tribe, 1995

Table 23. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Tatitlek. 1995

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	25
	Surveyed Households	19
	Sampling Fraction	76.0%
	Sample Household Members	57
	Estimated Household Members	75.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea Harbor			Sea Harbor	
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	36.8%	84.2%	Total Number Harvested	2.6	46.1
Hunted	5.3%	26.3%	Total Number Struck and Lost	0.0	2.6
Harvested	5.3%	21.1%	Total Number Taken	2.6	48.7
Received	36.8%	84.2%			
Gave Away	5.3%	31.6%	Number Harvested Par Capita	0.04	0.61

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	2	2
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		2.6
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		2.6
Total Take (%)	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%		100.0%
Cum Take	0.2	0.4	0.7	0.9	1.1	1.3	1.5	1.8	2.0	2.2	2.4	2.6		
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%		

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	3	3	0	1	1	1	0	26	35
Struck & Lost	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Total Take	0	0	0	0	0	5	3	0	1	1	1	0	26	37
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	3.9	3.9	0.0	1.3	1.3	1.3	0.0	34.2	46.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
Total Take	0.0	0.0	0.0	0.0	0.0	6.6	3.9	0.0	1.3	1.3	1.3	0.0	34.2	48.7
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	15.4	15.4	0.0	5.1	5.1	5.1	0.0		46.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0		2.6
Total Take	0.0	0.0	0.0	0.0	0.0	18.0	15.4	0.0	5.1	5.1	5.1	0.0		48.7
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	36.9%	31.5%	0.0%	10.5%	10.5%	10.5%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	18.0	33.3	33.3	38.5	43.6	48.7	48.7		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	36.9%	68.5%	68.5%	79.0%	89.5%	100.0%	100.0%		

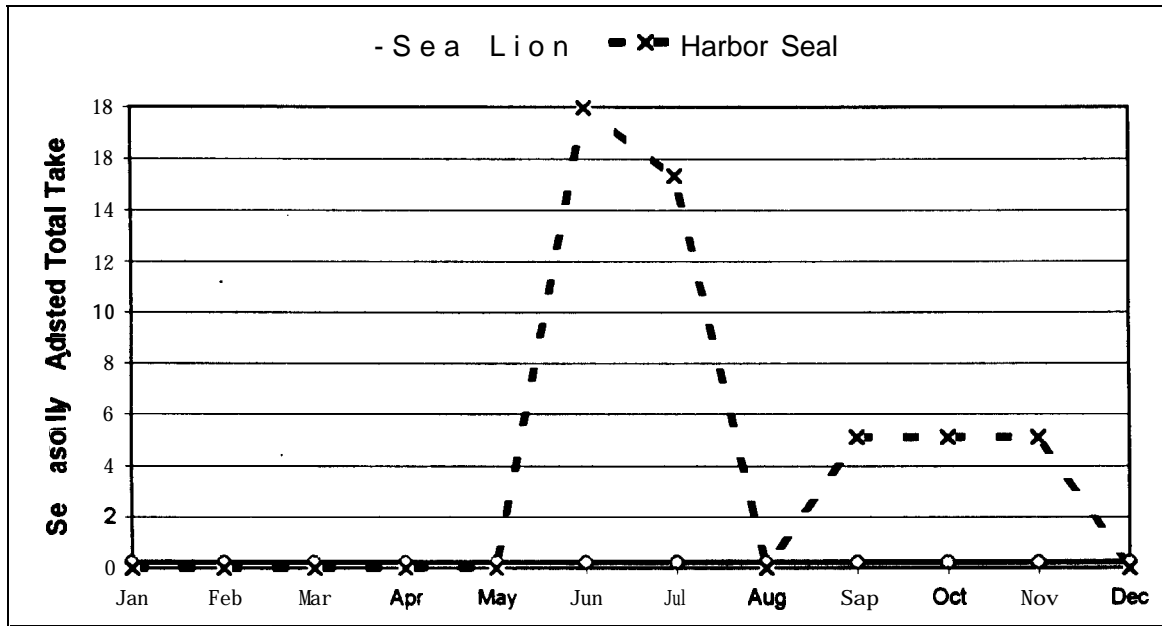
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tatitlek IRA Council, 1995

**Table 23. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Tatitlek, 1995**

*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%	1	2.9%	1.3	2.9%
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%	5	14.3%	6.6	14.3%
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%	1	2.9%	1.3	2.9%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	1	2.9%	1.3	2.9%
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	2	100.0%	2.6	100.0%	27	77.1%	35.5	77.1%
<b>Total</b>	<b>2</b>	<b>100.0%</b>	<b>2.6</b>	<b>100.0%</b>	<b>35</b>	<b>100.0%</b>	<b>46.1</b>	<b>100.0%</b>

*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/ Total		Year	Harvest	struck/ Total	
		Lost	Take			Lost	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

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, 1995

**Table 24. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Valdez, 1995**

*SAMPLING DESIGN:*

<i>CHAIN REFERRAL</i>	Total Referred Households	6
	Surveyed Households	5
	Sampling Fraction	63.3%
	Sample Household Members	22
	Estimated Household Members	26.4

*HARVEST AND USE INFORMATION*

*Percentage of Sample Households:*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
used	0.0%	40.0%
Hunted	0.0%	40.0%
Harvested	0.0%	40.0%
Received	0.0%	0.0%
Gave Away	0.0%	40.0%

*Estimated Community Harvest and Take (Expanded):*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	0.0	16.8
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	16.6
Number Harvested Per Capita	N/A	N/A

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	0	0	0	2	0	0	0	0	0	4	2	2	4	14
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	2	0	0	0	0	0	4	2	2	4	14
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	4.0	2.4	2.4	4.0	16.8
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	2.4	0.0	0.0	0.0	0.0	0.0	4.8	2.4	2.4	4.0	16.8
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	6.7	3.4	3.4		16.8
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	3.4	0.0	0.0	0.0	0.0	0.0	6.7	3.4	3.4		16.6
Total Take (%)	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	40.0%	20.0%	20.0%		100.0%
Cum. Take	0.0	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4	10.1	13.4	16.8		
Cum. Take (%)	0.0%	0.0%	0.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	60.0%	80.0%	100.0%		

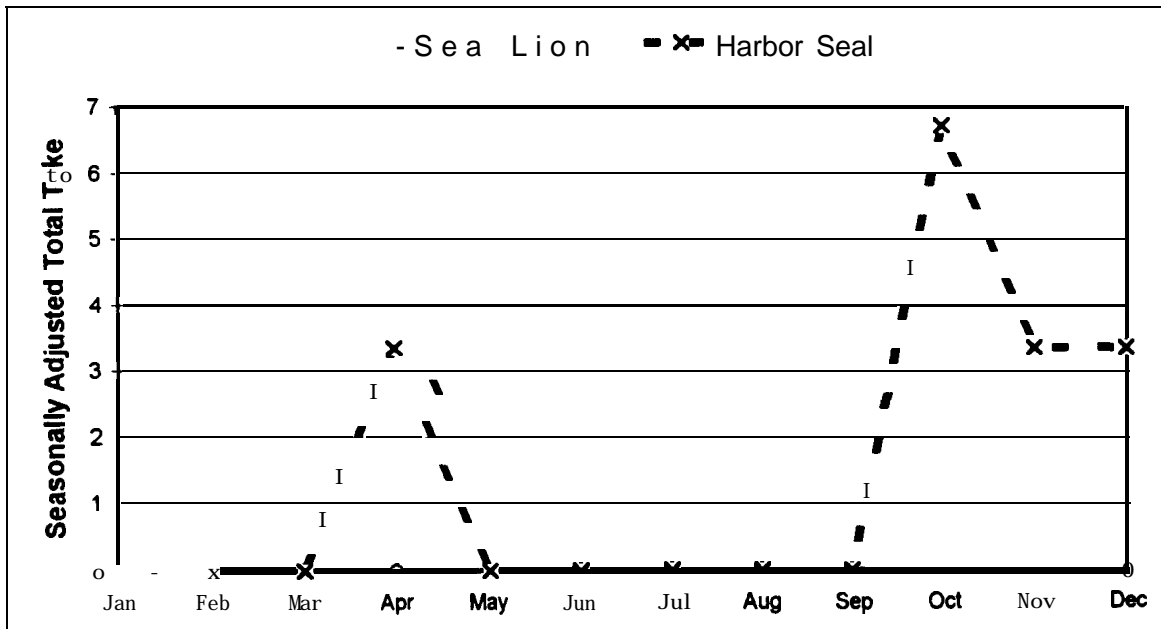
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Valdez Native Association, 1995.

Table 24. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Valdez, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	5	35.7%	6.0	35.7%
Adult Female	0	--	0.0	--	4	26.6%	4.0	28.6%
Adult Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Male	0	--	0.0	--	1	7.1%	1.2	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	--	4	28.6%	4.0	28.6%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>14</b>	<b>100.0%</b>	<b>16.8</b>	<b>100.0%</b>

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	<b>1993</b>	21.0	4.0	25.0
1994	0.0	0.0	0.0	1994	30.0	3.0	33.0
1996	0.0	0.0	0.0	1995	16.6	0.0	16.6

SOURCE- Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lion and Harbor Seals in Alaska, with assistance from the Valdez Native Association, 1995

**Table 25. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Anchorage, 1995**

*SAMPLING DESIGN:*

*CHAIN REFERRAL*

Total Referred Households	24
Surveyed Households	13
Sampling Fraction	54.2%
Sample Household Members	52
Estimated Household Members	96.0

*HARVEST AND USE INFORMATION*

*Percentage of Sample Households:*

	<b>Sea Harbor</b>	
	<u>Lion</u>	<u>Seal</u>
used	23.1%	46.2%
Hunted	7.7%	30.8%
Harvested	0.0%	15.4%
Received	23.1%	46.2%
Gave Away	15.4%	38.5%

*Estimated Community Harvest and Take (Expanded):*

	<b>See Harbor</b>	
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	0.0	3.7
Total Numb Struck and Lost	0.0	0.0
Total Number Taken	0.0	3.7
Number Harvested Per Capita	N/A	N/A

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Ckt	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum. Take(%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	1	0	0	0	0	0	0	1	0	0	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	1	0	0	0	0	0	2
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	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	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	3.7
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	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	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	3.7
Total Take (%)	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	1.8	1.8	1.0	1.8	1.8	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7
Cum. Take (%)	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	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 Absk a, with assistance from the Cook Inlet Tribal Council and Alaska Federation of Natives, 1995.

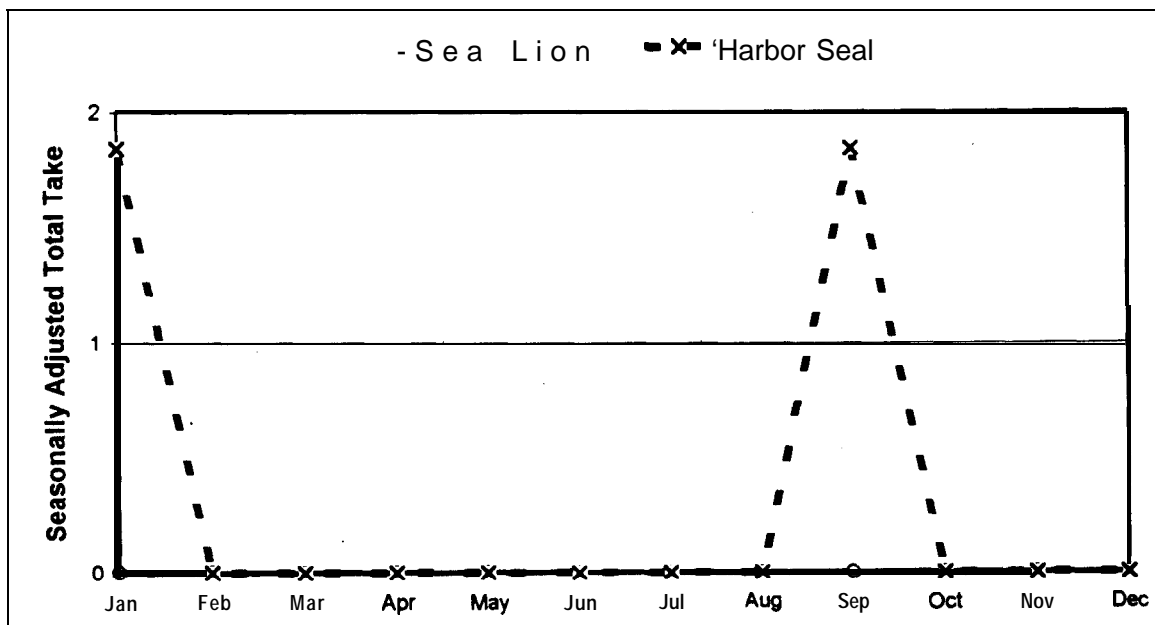


Table 25. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Anchorage, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	1	50.0%	1.8	50.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	1	50.0%	1.8	50.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>2</b>	<b>100.0%</b>	<b>3.7</b>	<b>100.0%</b>

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	5.7	3.0	9.5	1992	17.1	0.0	17.1
1993	7.8	3.3	11.1	1993	24.4	5.6	30.0
1994	1.4	0.0	1.4	1994	4.2	0.0	4.2
<b>1995</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1995</b>	<b>3.7</b>	<b>0.0</b>	<b>3.7</b>

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, 1995

Table 26. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Homer, 1996

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	4
	Surveyed Households	3
	Sampling Fraction	75.0%
	Sample Household Members	11
	Estimated Household Members	14.7

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>		<i>Estimated Community Harvest and Take (Expanded):</i>	
	Sea Harbor		Sea Harbor
	<u>Lion</u> <u>Seal</u>	<u>Lion</u>	<u>Seal</u>
used	66.7% 1000%	Total Number Harvested	0.0 0.0
Hunted	33.3% 66.7%	Total Number Struck and Lost	0.0 0.0
Harvested	0.0% 0.0%	Total Number Taken	0.0 0.0
Received	66.7% 100.0%		
Gave Away	00% 0.0%	Number Harvested Per Capita	N/A N/A

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum Take (%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum. Take (%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

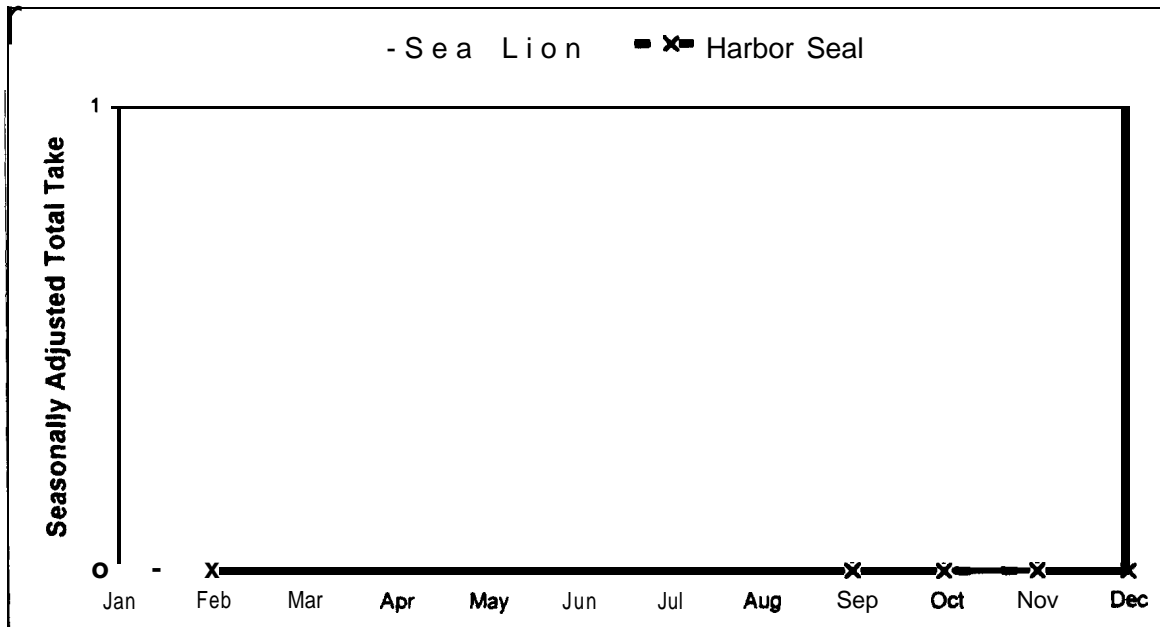
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, 1995

**Table 26. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Homer, 1996**

*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	---
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>

*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	4.0
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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska 1995.

Table 27. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Akhiok, 1995

**SAMPLING DESIGN:**

**CENSUS**

Total Native Households	19
Surveyed Households	19
Sampling Fraction	100.0%
Sample Household Members	62
Estimated Household Members	62.0

**HARVEST AND USE INFORMATION**

*Percentage of Native Households:*

	<b>Sea</b>	<b>Harbor</b>
	<b>Lion</b>	<b>Seal</b>
used	21.1%	36.8%
Hunted	10.5%	31.6%
Harvested	5.3%	21.1%
Received	15.6%	15.8%
Gave Away	5.3%	10.5%

*Estimated Community Harvest and Take (Expanded):*

	<b>Sea</b>	<b>Harbor</b>
	<b>Lion</b>	<b>Seal</b>
Total Number Harvested	1.0	5.0
Total Number Struck and Lost	1.0	0.0
Total Number Taken	2.0	5.0
Number Harvested Per Capita	0.02	0.08

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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	1	0	0	0	0	1
Total Take	1	0	0	0	0	0	0	0	1	0	0	0	0	2
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	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
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0
Total Take	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	2.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	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
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0
Total Take	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	2.0
Total Take (%)	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
Cum. Take (%)	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	1	1	2	0	1	5	
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	0	0	0	0	0	1	1	2	0	1	5	
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	0.0	1.0	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	1.0	1.0	2.0	0.0	1.0	5.0	
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	2.5	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	1.3	1.3	2.5	0.0	0.0	5.0	
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	25.0%	50.0%	0.0%	0.0%	100.0%	
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5	5.0	5.0	5.0	5.0	
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	50.0%	100.0%	100.0%	100.0%	100.0%	

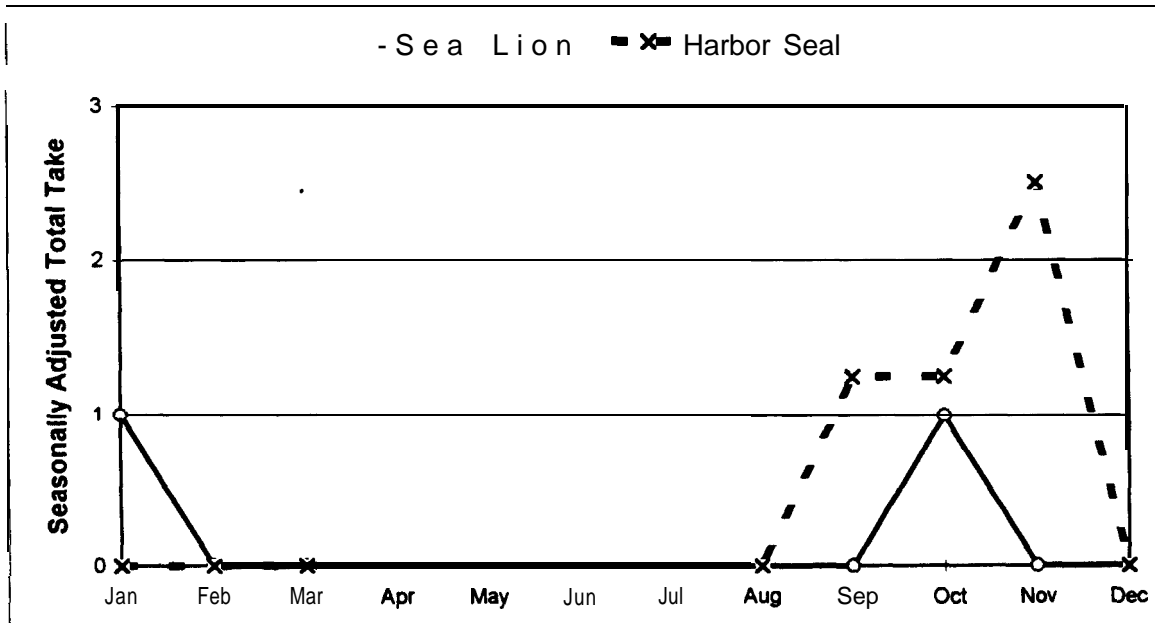
SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Akhiok and Akhiok Tribal Council, 1995

Table 27. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Akhiok, 1995

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%	1.0	100.0%	3	60.0%	3.0	50.0%
Adult Female	0	00%	0.0	0.0%	1	20.0%	1.0	20.0%
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	00%	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	00%	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	20.0%	1.0	20.0%
Total	1	100.0%	1.0	100.0%	5	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	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

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, 1995.

Table 28. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Karluk, 1995

**SAMPLING DESIGN:  
CENSUS**

Total Native Households	18
Surveyed Households	16
Sampling Fraction	66.9%
Sample Household Members	53
Estimated Household Members	59.6

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>		<i>Estimated Community Harvest and Take (Expanded):</i>	
Sea Lion	Harbor Seal	Sea Lion	Harbor Seal
used 0.0%	37.5%	Total Number Harvested	0.0 26.1
Hunted 0.0%	43.8%	Total Number Struck and Lost	0.0 6.8
Harvested 0.0%	43.0%	Total Number Taken	0.0 34.9
Received 0.0%	18.0%		
Gave Away 0.0%	12.5%	Number Harvested Per Capita	0.00 0.47

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	
Cum Take (%)	--	--	--	--	--	--	--	--	--	--	--	--	--	

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	5	3	5	0	0	0	0	1	2	5	3	1	0	25
Struck & Lost	3	2	0	0	0	0	0	0	0	1	0	0	0	6
Total Take	8	5	5	0	0	0	0	1	2	6	3	1	0	31
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	5.6	3.4	5.6	0.0	0.0	0.0	0.0	1.1	2.3	5.6	3.4	1.1	0.0	26.1
Struck & Lost	3.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	6.8
Total Take	9.0	5.6	5.6	0.0	0.0	0.0	0.0	1.1	2.3	6.8	3.4	1.1	0.0	34.9
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	5.6	3.4	5.6	0.0	0.0	0.0	0.0	1.1	2.3	5.6	3.4	1.1		28.1
Struck & Lost	3.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0		6.8
Total Take	9.0	5.6	5.6	0.0	0.0	0.0	0.0	1.1	2.3	6.8	3.4	1.1		34.9
Total Take (%)	25.6%	16.1%	16.1%	0.0%	0.0%	0.0%	0.0%	3.2%	6.5%	19.4%	9.7%	3.2%		100.0%
Cum Take	9.0	14.6	20.3	20.3	20.3	20.3	20.3	21.4	23.6	30.4	33.8	34.9		
Cum Take (%)	25.8%	41.9%	58.1%	58.1%	58.1%	58.1%	58.1%	58.1%	61.3%	67.7%	87.1%	96.8%	100.0%	

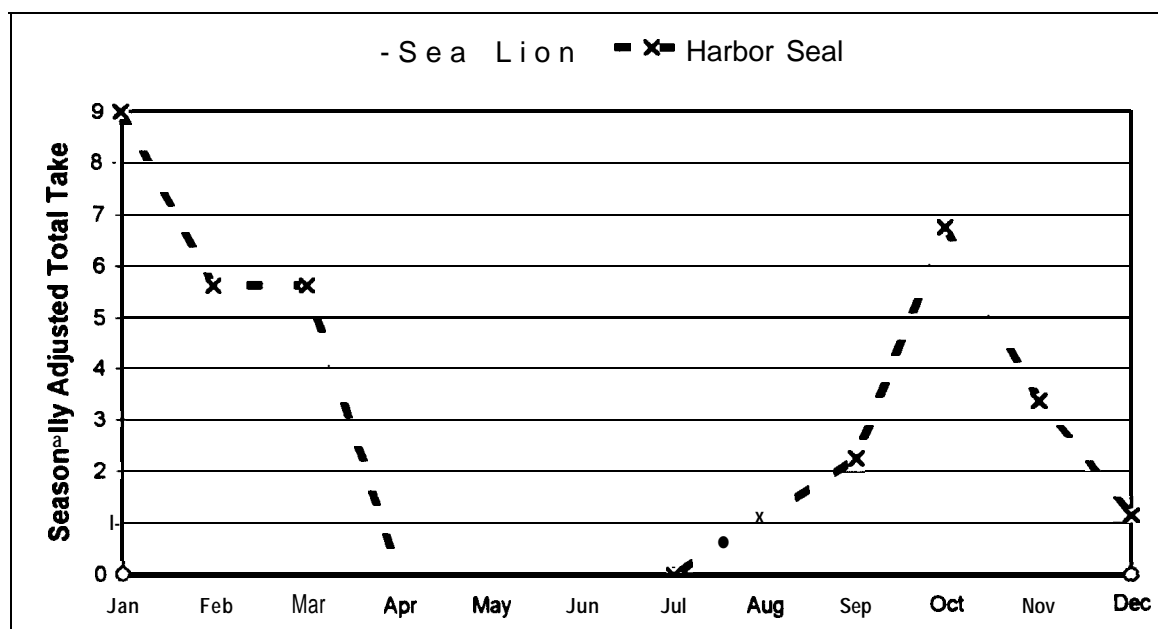
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Karluk IRA Council, 1995.

Table 28. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Karluk, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	19	76.0%	21.4	76.0%
Adult Female	0	---	0.0	---	6	24.0%	6.8	24.0%
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%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>25</b>	<b>100.0%</b>	<b>28.1</b>	<b>100.0%</b>

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	<b>1995</b>	<b>28.1</b>	<b>8.8</b>	<b>34.9</b>

SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska. with assestance from the Karluk IRA Council, 1995

**Table 29. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kodiak City, 1995**

*SAMPLING DESIGN:*

<i>CHAIN REFERRAL</i>	Total Referred Households	11
	Surveyed Households	10
	Sampling Fraction	90.9%
	Sample Household Members	42
	Estimated Household Members	46.2

*HARVEST AND USE INFORMATION*

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea <u>Lion</u>	Harbor <u>Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	10.0%	70.0%	Total Number Harvested	2.2	8.8
Hunted	20.0%	30.0%	Total Number Struck and Lost	0.0	0.0
Harvested	10.0%	30.0%	Total Number Taken	2.2	8.8
Received	0.0%	50.0%			
Gave Away	10.0%	30.0%	Number Harvested Per Capita	N/A	N/A

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	0	0	0	0	0	0	2	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	0	0	0	0	0	2	0	0	0	0	0	0	2
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	0	0	0	0	0	2	1	0	1	2	2	0	0	8
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	2	1	0	1	2	2	0	0	8
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	0.0	0.0	2.2	1.1	0.0	1.1	2.2	2.2	0.0	0.0	8.8
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	2.2	1.1	0.0	1.1	2.2	2.2	0.0	0.0	8.8
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	0.0	0.0	2.2	1.1	0.0	1.1	2.2	2.2	0.0	0.0	8.8
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	2.2	1.1	0.0	1.1	2.2	2.2	0.0	0.0	8.8
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	12.5%	0.0%	12.5%	25.0%	25.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	2.2	3.3	3.3	4.4	6.6	8.8	8.8	8.8	8.8
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	37.5%	37.5%	50.0%	75.0%	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 Kodiak Tribal Council and Kodiak Ares Natiie Association, 1995.

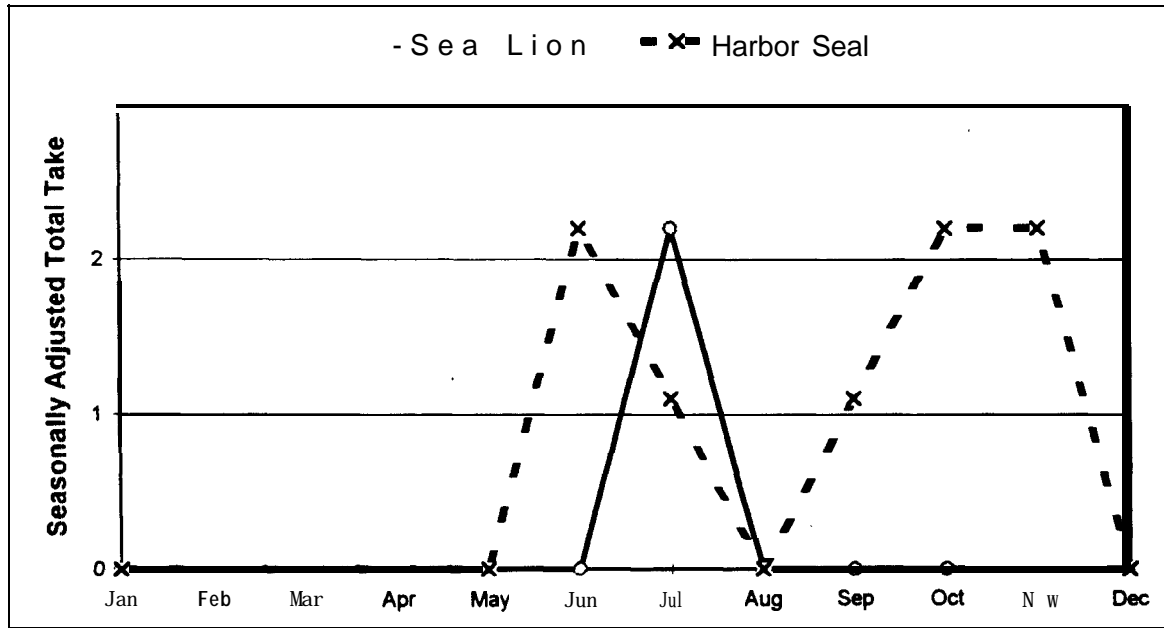


Table 29. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kodiak City, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	1	12.5%	1.1	12.5%
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%	1	12.5%	1.1	12.5%
Juvenile Unknown Sex	2	100.0%	2.2	100.0%	6	75.0%	6.6	75.0%
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%
<b>Total</b>	<b>2</b>	<b>100.0%</b>	<b>2.2</b>	<b>100.0%</b>	<b>a</b>	<b>100.0%</b>	<b>8.8</b>	<b>100.0%</b>

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

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, 1995

**Table 30. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Larsen Bay, 1995**

*SAMPLING DESIGN:*

*CENSUS*

Total Native Households	37
Surveyed Households	37
Sampling Fraction	100.0%
Sample Household Members	92
Estimated Household Members	92.0

*HARVEST AND USE INFORMATION*

*Percentage of Native Households:*

	Sea Harbor	
	<u>Lion</u>	<u>Seal</u>
Used	2.7%	45.9%
Hunted	2.7%	10.8%
Harvested	2.7%	10.8%
Received	0.0%	35.1%
Gave Away	2.7%	21.6%

*Estimated Community Harvest and Take (Expanded):*

	Sea Harbor	
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	2.0	11.0
Total Number Struck and Lost	1.0	0.0
Total Number Taken	3.0	11.0
Number Harvested Per Capita	0.02	0.12

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Total Take	0	0	0	0	0	0	0	0	0	0	0	3	0	3
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	3.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0		2.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0		1.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0		3.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	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	3.0		
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%		

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	2	0	0	0	0	0	0	0	0	1	7	1	0	11
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	0	0	0	0	0	0	0	0	1	7	1	0	11
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	7.0	1.0	0.0	11.0
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	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	7.0	1.0	0.0	11.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	7.0	1.0		11.0
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	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	7.0	1.0		11.0
Total Take (%)	18.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.1%	63.6%	9.1%		100.0%
Cum. Take	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	10.0	11.0		
Cum. Take (%)	18.2%	18.2%	18.2%	18.2%	18.2%	18.2%	18.2%	18.2%	18.2%	27.3%	90.9%	100.0%		

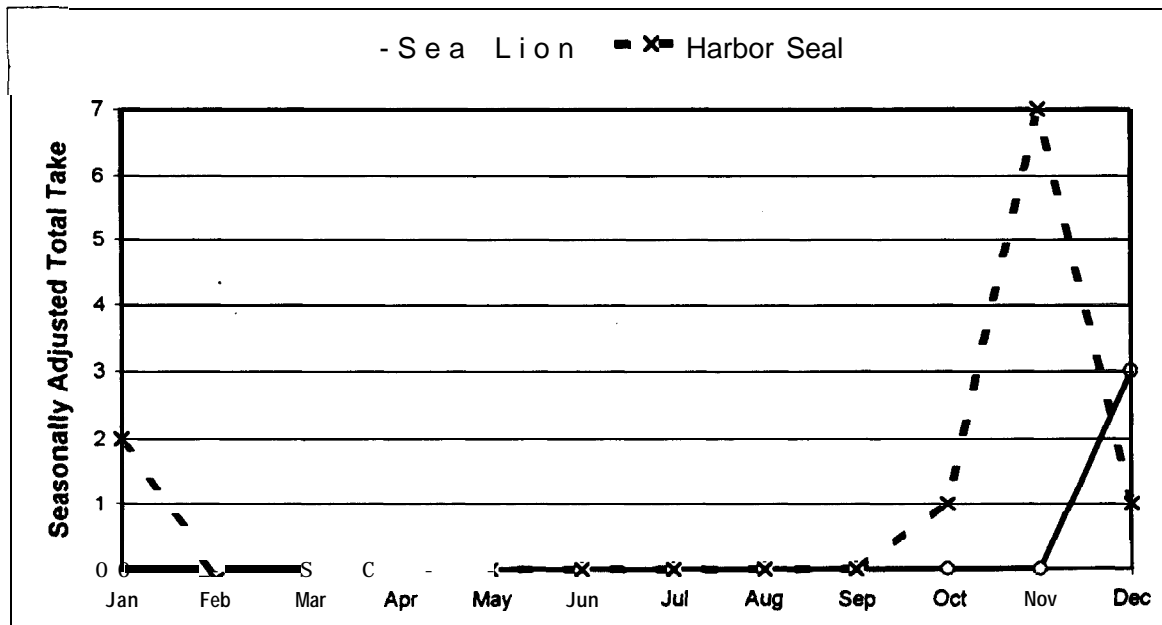
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Larsen Bay and Larsen Bay Tribal Council, 1995.

**Table 30. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Larsen Bay, 1995**

*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	50.0%	1.0	50.0%	10	90.9%	10.0	90.9%
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	1	50.0%	1.0	50.0%	1	9.1%	1.0	9.1%
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%
<b>Total</b>	<b>2</b>	<b>100%</b>	<b>2.0</b>	<b>100.0%</b>	<b>11</b>	<b>100.0%</b>	<b>11.0</b>	<b>100.0%</b>

*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	6.5	0.0	6.5
1993	0.0	0.0	0.0	1993	7.7	5.5	13.2
1994	2.2	0.0	2.2	1994	13.4	2.2	15.7
1995	2.0	1.0	3.0	1995	11.0	0.0	11.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lion and Harbor Seals in Alaska, with assistance from the City of Larsen Bay and Larsen Bay Tribal Council, 1995.

Table 31. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Old Harbor, 1995

SAMPLING DESIGN:		<u>Active</u>	<u>Other</u>	<u>Total</u>
TWO-STRATA	Total Native Households	29	59	88
	Surveyed Households	24	28	52
	Sampling Fraction	82.8%	47.5%	59.1%
	Sample Household Members	90	87	177
	Estimated Household Members	108.8	183.3	292.1

**HARVEST AND USE INFORMATION**

Percentage of <b>Native</b> Households:				Estimated Community Harvest and Take (Expanded):			
Sea Harbor		Lion Seal		Sea Harbor		Lion Seal	
Used	97.6%	100.0%					
Hunted	48.3%	48.3%			Total Number Harvested	107.1	112.0
Harvested	47.0%	44.6%			Total Number Struck and Lost	5.7	2.4
Received	90.7%	84.2%			Total Number Taken	112.9	114.4
Gave Away	44.6%	41.0%			Number Harvested Per Capita	0.37	0.38

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Au9	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	4	14	11	0	0	0	2	8	20	10	10	0	79
Struck & Lost	0	1	0	2	0	0	0	0	1	0	0	0	0	4
Total Take	0	5	14	13	0	0	0	2	9	20	10	10	0	83
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	5.7	178	151	0.0	0.0	0.0	3.3	115	269	14.6	12.1	0.0	107.1
Struck & Lost	0.0	1.2	0.0	3.3	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	5.7
Total Take	0.0	6.9	178	164	0.0	0.0	0.0	3.3	127	269	14.8	12.1	0.0	112.9
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	5.7	17.0	151	0.0	0.0	0.0	3.3	115	269	14.8	12.1		107.1
Struck & Lost	0.0	1.2	0.0	3.3	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0		5.7
Total Take	0.0	6.9	17.8	18.4	0.0	0.0	0.0	3.3	127	26.9	14.8	12.1		112.9
Total Take (%)	0.0%	6.1%	15.8%	16.3%	00%	00%	00%	29%	112%	236%	131%	10.7%		100.0%
Cum. Take	0.0	6.9	24.0	432	432	43.2	432	465	591	860	1006	112.9		
Cum. Take (%)	0.0%	6.1%	21.9%	362%	362%	362%	362%	412%	524%	762%	893%	100.0%		

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Au9	Sap	Oct	Nw	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	5	12	11	1	0	4	11	9	14	10	6	0	83
Struck & Lost	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Total Take	0	5	14	11	1	0	4	11	9	14	10	6	0	85
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	6.9	15.4	16.0	2.1	0.0	4.8	16.0	12.7	10.7	12.1	7.3	0.0	112.0
Struck & Lost	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Total Take	0.0	6.9	17.8	16.0	2.1	0.0	4.8	16.0	12.7	10.7	12.1	7.3	0.0	114.4
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	6.9	15.4	16.0	2.1	0.0	4.8	16.0	12.7	10.7	12.1	7.3		112.0
Struck & Lost	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.4
Total Take	0.0	6.9	17.0	16.0	2.1	0.0	4.8	16.0	12.7	10.7	12.1	7.3		114.4
Total Take (%)	0.0%	6.1%	15.6%	14.0%	1.6%	0.0%	42%	140%	11%	16.4%	10.6%	6.3%		100.0%
Cum. Take	0.0	6.9	24.8	40.7	42.9	42.9	47.7	63.7	76.3	95.1	107.1	114.4		
Cum. Take (%)	0.0%	6.1%	21.6%	35.6%	37.5%	37.5%	41%	7%	55.7%	66%	7%	63.1%	93.7%	100.0%

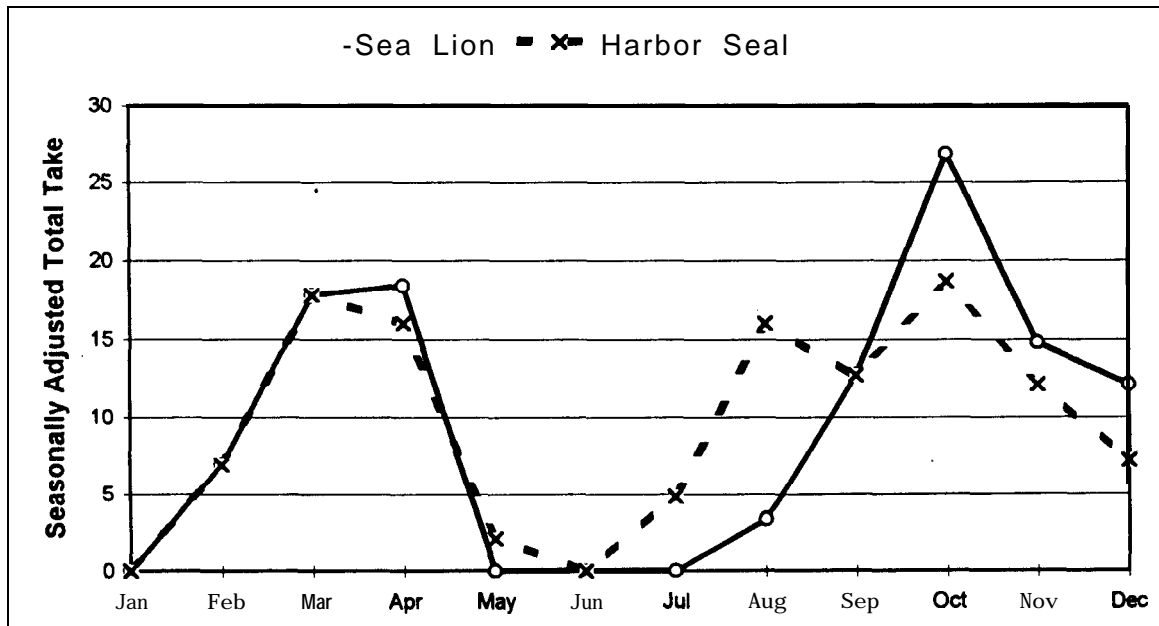
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Old Harbor and Old Harbor Tribal Council, 1995

**Table 31. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Old Harbor, 1995**

*HARVEST BY AGE AND SEX*

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	5	6.3%	6.0	5.6%	16	19.3%	20.2	16.1%
Adult Female	13	16.5%	17.5	16.3%	24	20.9%	32.6	29.1%
Adult Unknown Sex	4	5.1%	5.7	5.4%	4	4.0%	6.6	5.9%
Juvenile Male	35	44.3%	46.6	45.3%	20	24.1%	26.9	24.0%
Juvenile Female	21	<b>26.6%</b>	20.1	26.2%	19	22.9%	25.7	22.9%
Juvenile Unknown Sex	1	1.3%	1.2	1.1%	0	0.0%	0.0	0.0%
Pup Male	0	00%	0.0	00%	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%
<b>Total</b>	<b>79</b>	<b>100.0%</b>	<b>107.1</b>	<b>1000%</b>	<b>83</b>	<b>100.0%</b>	<b>112.0</b>	<b>100.0%</b>

*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	32.9	13.2	46.1	1992	66.6	5.3	92.1
1993	32.1	1.0	33.2	1993	67.6	2.7	70.3
1994	46.2	1.3	47.5	1994	83.7	1.3	<b>85.0</b>
1995	107.1	5.7	112.9	<b>1995</b>	<b>112.0</b>	2.4	114.4

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 Old Harbor and Old Harbor Tribal Council, 1995.

Table 32. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ouzinkie, 1995

*SAMPLING DESIGN:*

<b>CENSUS</b>	Total Native Households	53
	Surveyed Households	51
	Sampling Fraction	96.2%
	Sample Household Members	156
	Estimated Household Members	162.1

*HARVEST AND USE INFORMATION*

*Percentage of Native Households:*

	<b>Sea</b>	<b>Harbor</b>
	<u>Lion</u>	<u>Seal</u>
used	21.6%	45.1%
Hunted	15.7%	29.4%
Harvested	15.7%	29.4%
Received	9.8%	27.5%
Gave Away	15.7%	25.5%

*Estimated Community Harvest and Take (Expanded):*

	<b>Sea</b>	<b>Harbor</b>
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	15.6	56.1
Total Number Struck and Lost	0.0	0.0
Total Number Taken	15.6	56.1
Number Harvested Per Capita	0.10	0.35

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	1	1	0	1	0	0	2	4	3	3	0	0	15
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	1	1	0	1	0	0	2	4	3	3	0	0	15
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	1.0	1.0	0.0	1.0	0.0	0.0	2.1	4.2	3.1	3.1	0.0	0.0	15.6
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	1.0	1.0	0.0	1.0	0.0	0.0	2.1	4.2	3.1	3.1	0.0	0.0	15.6
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	1.0	1.0	0.0	1.0	0.0	0.0	2.1	4.2	3.1	3.1	0.0	0.0	15.6
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	1.0	1.0	0.0	1.0	0.0	0.0	2.1	4.2	3.1	3.1	0.0	0.0	15.6
Total Take (%)	0.0%	6.7%	6.7%	0.0%	6.7%	0.0%	0.0%	13.3%	26.7%	20.0%	20.0%	0.0%	0.0%	100.0%
Cum Take	0.0	1.0	2.1	2.1	3.1	3.1	3.1	5.2	9.4	12.5	15.6	15.6	15.6	
Cum Take (%)	0.0%	6.7%	13.3%	13.3%	20.0%	20.0%	20.0%	33.3%	60.0%	80.0%	100.0%	100.0%	100.0%	

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	3	6	3	2	2	0	3	11	13	8	3	0	54
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	3	6	3	2	2	0	3	11	13	8	3	0	54
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	3.1	6.2	3.1	2.1	2.1	0.0	3.1	11.4	13.5	8.3	3.1	0.0	56.1
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	3.1	6.2	3.1	2.1	2.1	0.0	3.1	11.4	13.5	8.3	3.1	0.0	56.1
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	3.1	6.2	3.1	2.1	2.1	0.0	3.1	11.4	13.5	8.3	3.1	0.0	56.1
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	3.1	6.2	3.1	2.1	2.1	0.0	3.1	11.4	13.5	8.3	3.1	0.0	56.1
Total Take (%)	0.0%	5.6%	11.1%	5.6%	3.7%	3.7%	0.0%	5.6%	26.4%	24.1%	14.6%	5.6%	0.0%	100.0%
Cum. Take	0.0	3.1	9.4	12.5	14.5	16.6	16.6	19.7	31.2	44.7	53.0	56.1	56.1	
Cum Take (%)	0.0%	5.6%	16.7%	22.2%	25.9%	29.6%	29.6%	35.2%	55.6%	79.6%	94.4%	100.6%	100.6%	

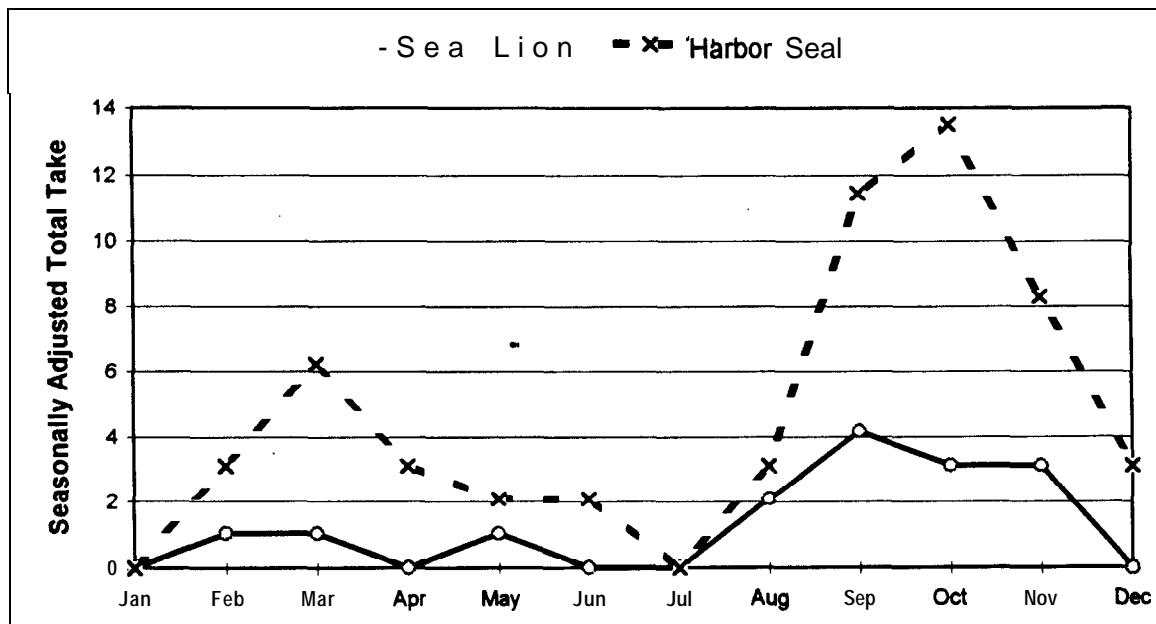
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Native Corporation, City of Ouzinkie, and Ouzinkie Tribal Council, 1995

Table 32. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ouzinkie, 1995

HARVEST BY AGE AND SEX

	Sea Lion				HarborSeal			
	Reported by		Community Est		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	3	5.6%	3.1	5.6%
Adult Female	1	6.7%	1.0	6.7%	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	12	60.0%	12.5	60.0%	38	70.4%	39.5	70.4%
Juvenile Female	2	13.3%	2.1	13.3%	12	22.2%	12.5	22.2%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	1	1.9%	1.0	1.9%
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%
<b>Total</b>	<b>15</b>	<b>100.0%</b>	<b>15.6</b>	<b>100.0%</b>	<b>54</b>	<b>100.0%</b>	<b>56.1</b>	<b>100.0%</b>

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

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, 1995

Table 33. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Port Lions, 1995

SAMPLING DESIGN:		Active	Other	Total
TWO-STRATA	Total Native Households	7	41	48
	Surveyed Households	7	33	40
	Sampling Fraction	100.0%	80.5%	83.3%
	Sample Household Members	29	95	124
	Estimated Household Members	29.0	118.0	147.0

**HARVEST AND USE INFORMATION**

Percentage of Native Households:				Estimated Community Harvest and Take (Expanded):			
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal		
used	0.0%	8.3%		Total Number Harvested	0.0	2.0	
Hunted	0.0%	4.2%		Total Number Struck and Lost	0.0	0.0	
Harvested	0.0%	4.2%		Total Number Taken	0.0	2.0	
Received	0.0%	4.2%					
Gave Away	0.0%	4.2%		Number Harvested Per Capita	0.00	0.01	

SEA LION HARVEST BY MONTH													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	T O M
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	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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HARBOR SEAL HARVEST BY MONTH													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	1	0	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	1	0	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	1.0	0.0	0.0	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	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	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	1.0	0.0	0.0	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	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	2.0
Total Take (%)	0.0%	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	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%	0.0%	0.0%	50.0%	50.0%	50.0%	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 Port Lions Tribal Council and City of Port Lions, 1995

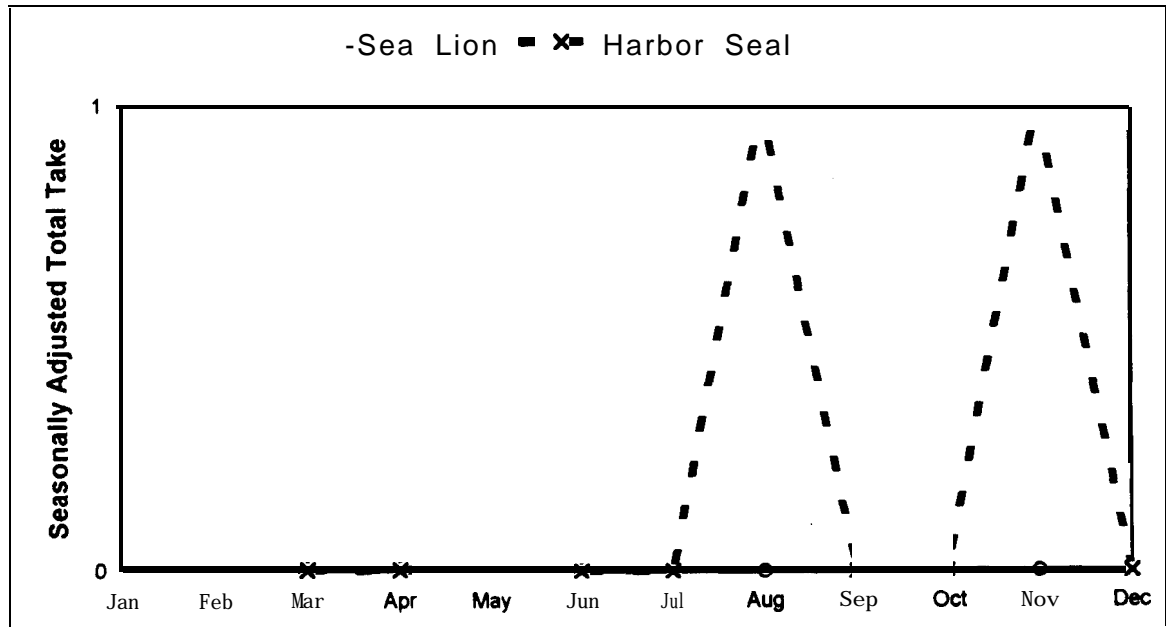


Table 33. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Port Lions, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	1	50.0%	1.0	50.0%
Adult Female	0	--	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	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	---	1	50.0%	1.0	50.0%
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%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>2</b>	<b>100.0%</b>	<b>2.0</b>	<b>100.0%</b>

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	2.2	3.3	1992	36.9	2.2	39.1
1993	4.0	1.0	5.0	1993	26.0	1.0	27.0
1994	0.0	0.0	0.0	1994	8.0	0.0	8.0
1995	0.0	0.0	0.0	1995	2.0	0.0	2.0

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, 1995.

**Table 34. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Chignik Bay, 1995**

*SAMPLING DESIGN:*

<i>CENSUS</i>	Total Native Households	25
	Surveyed Households	20
	Sampling Fraction	60.0%
	Sample Household Members	50
	Estimated Household Members	62.5

*HARVEST AND USE INFORMATION*

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

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nw	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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	
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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	
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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	0.0	
Cum. Take(%)	---	---	---	---	---	---	---	---	---	---	---	---	---	

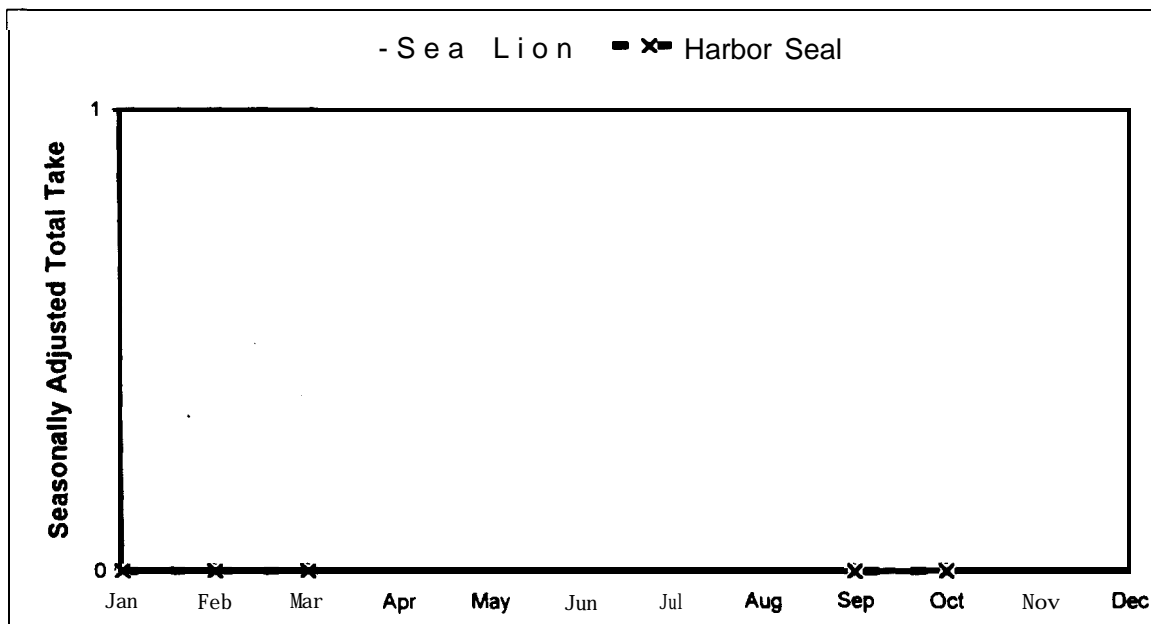
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Bay Traditional Village Council, 1995.

Table 34. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Chignik Bay, 1995

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	--
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>

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/ Total		Year	Harvest	Struck/ Total	
		Lost	Take			Lost	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

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, 1995

Table 35. SEA LION AND HARBOR SEAL HARVEST /TAKE ESTIMATES: Chignik Lagoon, 1995

*SAMPLING DESIGN:*

*CENSUS*

Total Native Households	21
Surveyed Households	20
Sampling Fraction	95.2%
Sample Household Members	71
Estimated Household Members	74.6

*HARVEST AND USE INFORMATION*

*Percentage of Native Households:*

	<i>Sea Harbor</i>	
	<u>Lion</u>	<u>Seal</u>
used	0.0%	0.0%
Hunted	0.0%	0.0%
Hat-vested	0.0%	0.0%
Received	0.0%	0.0%
Gave Away	0.0%	0.0%

*Estimated Community Harvest and Take (Expanded):*

	<i>Sea Harbor</i>	
	<u>Lion</u>	<u>Seal</u>
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

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

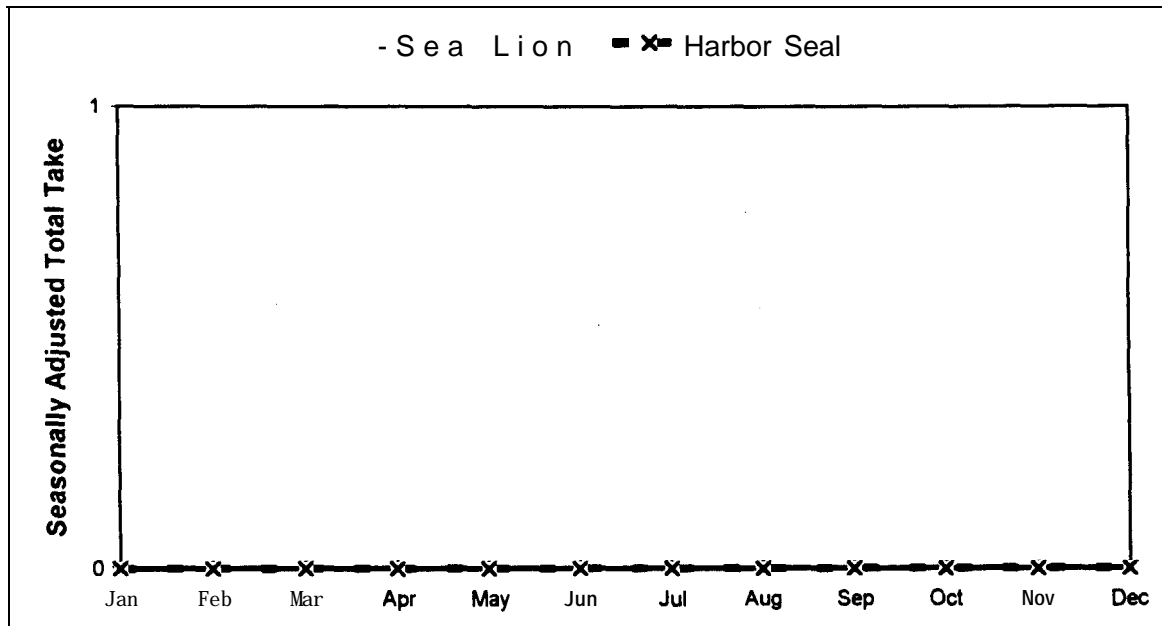
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitoring System for Sea Lions and Harbor Seals in Alaska with assistance from the Chignik Lagoon Traditional Village Council, 1995.

**Table 35. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Chignik Lagoon, 1995**

*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	--
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>

*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/ Total		Year	Harvest	Struck/ Total	
		Lost	Take			Lost	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	<b>0.0</b>	1.0	1.0
1995	0.0	0.0	0.0	1995	0.0	0.0	<b>0.0</b>

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, 1995.

Table 36. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: Chignik Lake, 1995

**SAMPLING DESIGN:**

**CENSUS**

Total Native Households	33
Surveyed Households	31
Sampling Fraction	93.9%
Sample Household Members	128
Estimated Household Members	136.3

**HARVEST AND USE INFORMATION**

*Percentage of Native Households:*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Used	6.5%	74.2%
Hunted	0.0%	12.9%
Harvested	0.0%	6.5%
Received	6.5%	74.2%
Gave Away	0.0%	51.6%

*Estimated Community Harvest and Take (Expanded):*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	0.0	3.2
Total Number Struck and Lost	0.0	1.1
Total Number Taken	0.0	4.3
Number Harvested Per Capita	0.00	0.02

<b>SEA LION HARVEST BY MONTH</b>														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nw	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<b>HARBOR SEAL HARVEST BY MONTH</b>														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	1	0	0	0	0	1	1	0	0	0	0	3
Struck & Lost	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Total Take	0	0	1	1	0	0	0	1	1	0	0	0	0	4
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.1	1.1	0.0	0.0	0.0	0.0	3.2
Struck & Lost	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Total Take	0.0	0.0	1.1	1.1	0.0	0.0	0.0	1.1	1.1	0.0	0.0	0.0	0.0	4.3
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.1	1.1	0.0	0.0	0.0	0.0	3.2
Struck & Lost	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Total Take	0.0	0.0	1.1	1.1	0.0	0.0	0.0	1.1	1.1	0.0	0.0	0.0	0.0	4.3
Total Take (%)	0.0%	0.0%	25.0%	25.0%	0.0%	0.0%	0.0%	25.0%	25.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	1.1	2.1	2.1	2.1	2.1	3.2	4.3	4.3	4.3	4.3	4.3	4.3
Cum. Take (%)	0.0%	0.0%	25.0%	50.0%	50.0%	50.0%	50.0%	75.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

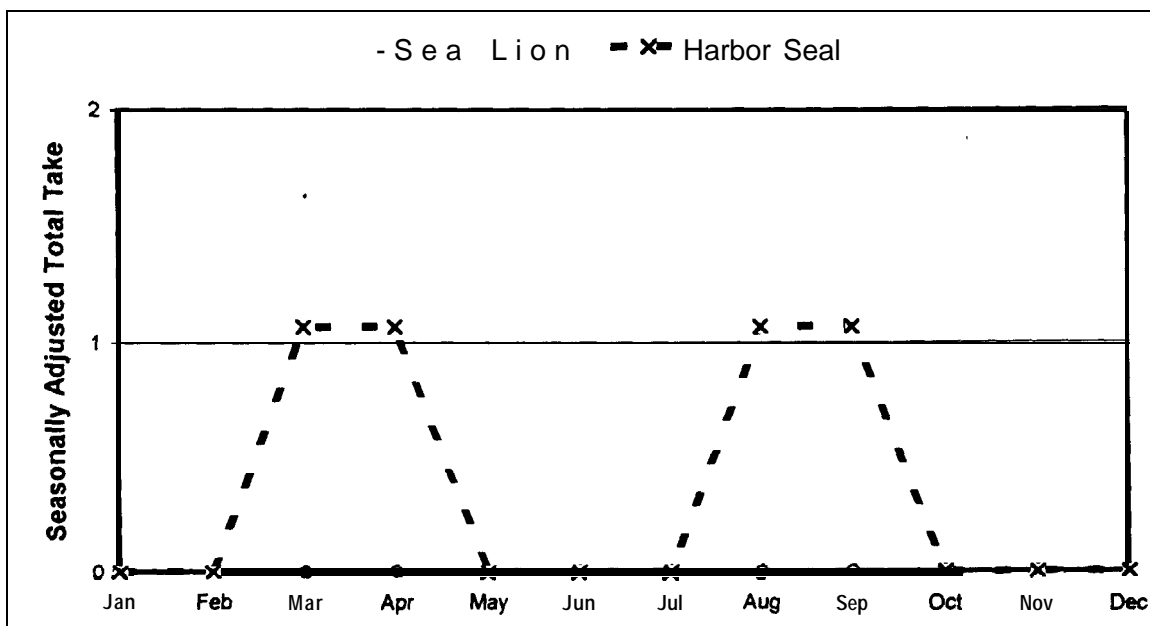
\*SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Chignik Lake Traditional Village Council, 1995

Table 36. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Chignik Lake, 1995

HARVEST BY AGE AND SEX

	SeaLion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	2	66.7%	2.1	66.7%
Adult Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	1	33.3%	1.1	33.3%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>3</b>	<b>100.0%</b>	<b>3.2</b>	<b>100.0%</b>

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	Struck/ Total			Year	Struck/ Total		
	Harvest	Lost	Take		Harvest	Lost	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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lion and Harbor Seals in Alaska, with assistance from the Chignik Lake Traditional Village Council, 1995

Table 37. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: False Pass, 1995

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	20
	Surveyed Households	17
	Sampling Fraction	66.0%
	Sample Household Members	53
	Estimated Household Members	62.4

**HARVEST AND USE INFORMATION**

*Percentage of Native Households:*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Used	0.0%	58.8%
Hunted	0.0%	41.2%
Harvested	0.0%	41.2%
Received	0.0%	23.5%
Gave Away	0.0%	41.2%

*Estimated Community Harvest and Take (Expanded):*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	0.0	25.9
Total Number Struck and Lost	0.0	1.2
Total Number Taken	0.0	27.1
Number Harvested Per Capita	0.00	0.42

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	4	3	0	4	1	2	1	1	2	1	0	3	0	22
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Total Take	4	3	0	4	1	2	1	1	2	1	0	3	1	23
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	4.7	3.5	0.0	4.7	1.2	2.4	1.2	1.2	2.4	1.2	0.0	3.5	0.0	26.9
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	1.2	1.2
Total Take	4.7	3.5	0.0	4.7	1.2	2.4	1.2	1.2	2.4	1.2	0.0	3.5	1.2	27.1
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	4.7	3.5	0.0	4.7	1.2	2.4	1.2	1.2	2.4	1.2	0.0	3.5		25.9
Struck & Lost	0.2	0.2	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.2		1.2
Total Take	4.9	3.7	0.0	4.9	1.2	2.5	1.2	1.2	2.5	1.2	0.0	3.7		27.1
Total Take (%)	10.2%	13.6%	0.0%	18.2%	4.5%	9.1%	4.5%	4.5%	9.1%	4.5%	0.0%	13.6%		100.0%
Cum. Take	4.9	8.6	8.6	13.5	14.8	17.2	18.4	19.7	22.1	23.4	23.4	27.1		
Cum Take (%)	18.2%	31.6%	31.8%	50.0%	54.5%	63.6%	68.2%	72.7%	81.8%	86.4%	86.4%	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 False Pass Tribal Council and City of False Pass, 1995.

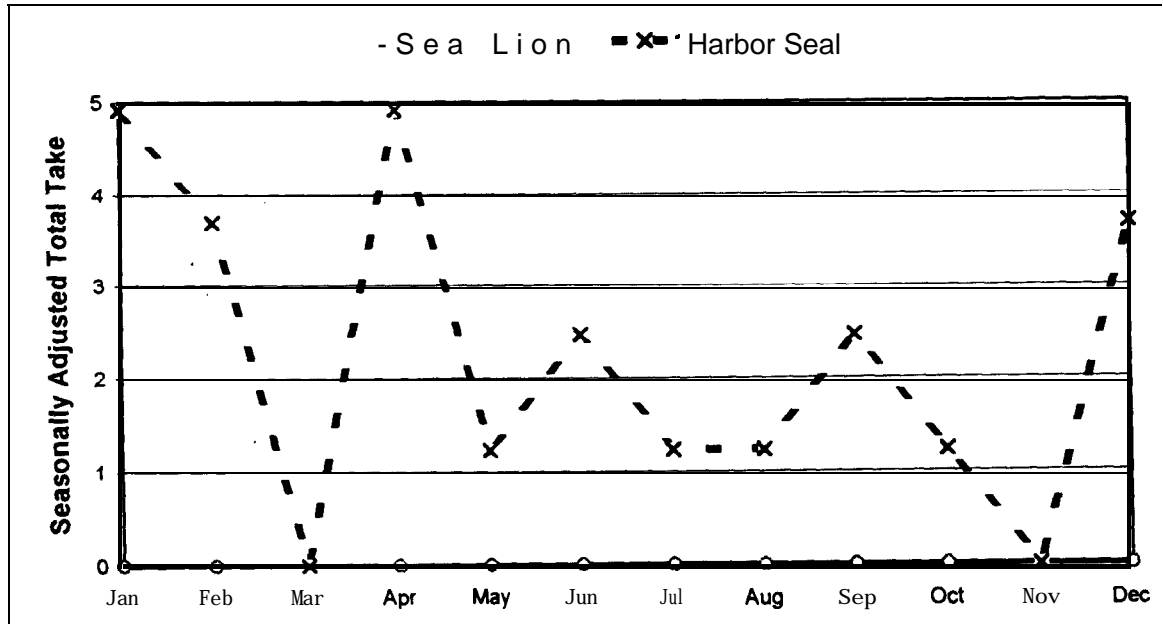


Table 37. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: False Pass, 1995

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	--	10	45.5%	11.8	45.5%
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	--	4	18.2%	4.7	18.2%
Juvenile Female	0	--	0.0	--	1	4.5%	1.2	4.5%
Juvenile Unknown Sex	0	--	0.0	--	7	31.8%	8.2	31.8%
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%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>22</b>	<b>100.0%</b>	<b>25.9</b>	<b>100.0%</b>

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	Struck/ Total			Year	Struck/ Total		
	Harvest	Lost	Take		Harvest	Lost	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	12.8	2.1	14.7
1995	0.0	0.0	0.0	<b>1995</b>	<b>25.9</b>	<b>1.2</b>	<b>27.1</b>

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, 1995

Table 38. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ivanof Bay, 1995

*SAMPLING DESIGN:*

<i>CENSUS</i>	Total Native Households	8
	Surveyed Households	6
	Sampling Fraction	75.0%
	Sample Household Members	25
	Estimated Household Members	33.3

*HARVEST AND USE INFORMATION*

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	<u>Sea</u>	<u>Harbor</u>		<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	100.0%	Total Number Harvested	0.0	18.7
Hunted	0.0%	83.3%	Total Number Struck and Lost	0.0	2.1
Harvested	0.0%	83.3%	Total Number Taken	0.0	21.3
Received	0.0%	100.0%			
Gave Away	0.0%	66.7%	Number Harvested Per Capita	0.00	0.56

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	2	2	0	1	1	1	0	0	3	1	2	1	0	14
Struck & Lost	0	1	1	0	0	0	0	0	0	0	0	0	0	2
Total Take	2	3	1	1	1	1	0	0	3	1	2	1	0	16
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	2.7	2.7	0.0	1.3	1.3	1.3	0.0	0.0	4.0	1.3	2.7	1.3	0.0	10.7
Struck & Lost	0.0	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Total Take	2.7	4.0	1.3	1.3	1.3	1.3	0.0	0.0	4.0	1.3	2.7	1.3	0.0	21.3
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	2.7	2.7	0.0	1.3	1.3	1.3	0.0	0.0	4.0	1.3	2.7	1.3	0.0	18.7
Struck & Lost	0.0	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Total Take	2.7	4.0	1.3	1.3	1.3	1.3	0.0	0.0	4.0	1.3	2.7	1.3	0.0	21.3
Total Take (%)	12.5%	18.8%	6.3%	6.3%	6.3%	6.3%	0.0%	0.0%	18.8%	6.3%	12.5%	6.3%	0.0%	100.0%
Cum. Take	2.1	6.7	8.6	9.3	10.7	12.0	12.0	12.0	16.0	17.3	20.0	21.3	21.3	21.3
Cum. Take (%)	12.5%	31.3%	37.5%	43.8%	50.0%	6.3%	56.3%	56.3%	75.8%	81.3%	93.8%	100.0%	100.0%	100.0%

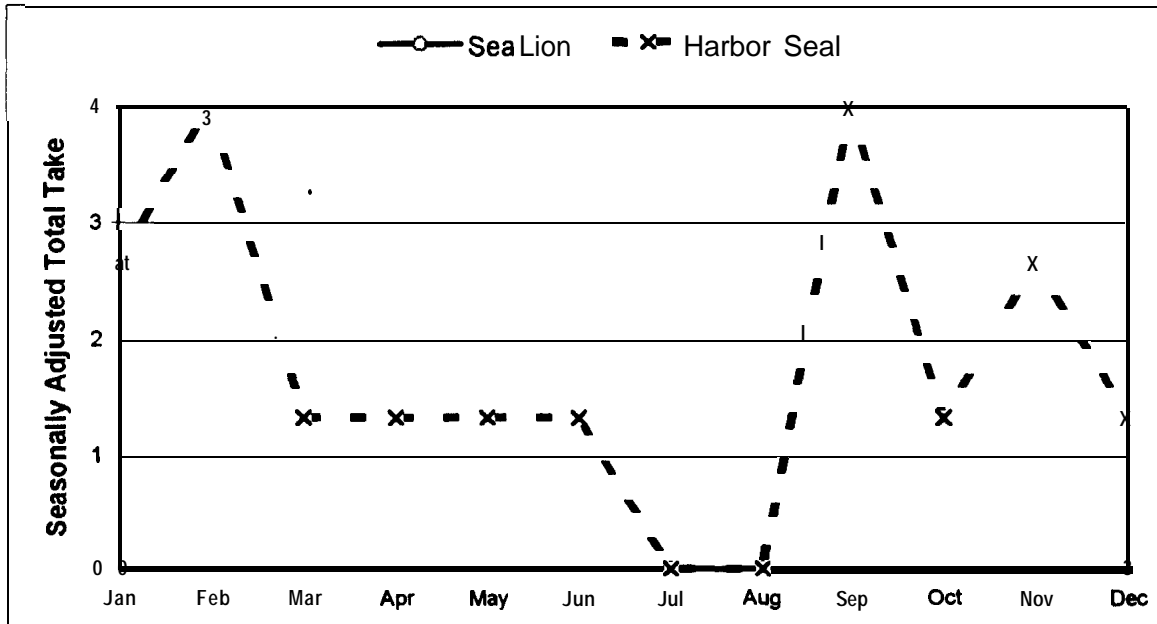
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ivanof Bay Traditional Village Council, 1995.

Table 38. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ivanof Bay, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	—	0.0	—	4	28.8%	5.3	28.6%
Adult Female	0	—	0.0	—	1	7.1%	1.3	7.1%
Adult Unknown Sex	0	—	0.0	—	2	14.3%	2.1	14.3%
Juvenile Male	0	—	0.0	—	0	0.0%	0.0	0.0%
Juvenile Female	0	—	0.0	—	1	7.1%	1.3	7.1%
Juvenile Unknown Sex	0	—	0.0	—	5	35.7%	6.7	35.7%
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	—	1	7.1%	1.3	7.1%
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%
<b>Total</b>	<b>0</b>	<b>—</b>	<b>0.0</b>	<b>—</b>	<b>14</b>	<b>100.0%</b>	<b>18.7</b>	<b>100.0%</b>

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	Struck/ Total			Year	Struck/ Total		
	Harvest	Lost	Take		Harvest	Lost	Take
1992	0.0	0.0	0.0	1992	10.0	1.0	11.0
1993	2.3	1.2	3.5	1993	16.3	4.7	21.0
1994	0.0	0.0	0.0	1994	12.0	1.3	13.3
1995	0.0	0.0	0.0	<b>1995</b>	<b>18.7</b>	<b>2.7</b>	<b>21.3</b>

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, 1995

**Table 39. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: King Cove, 1996**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>	Total Native Households	14	104	118
	Surveyed Households	14	8	22
	Sampling Fraction	100.0%	7.7%	18.6%
	Sample Household Members	57	21	78
	Estimated Household Members	57.0	273.0	330.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
<i>Sea Harbor</i>			<i>Sea Harbor</i>		
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	1.7%	44.1%	Total Number Harvested	5.0	43.0
Hunted	1.7%	20.3%	Total Number Struck and Lost	0.0	3.0
Harvested	1.7%	20.3%	Total Number Taken	5.0	52.0
Received	0.0%	41.5%			
Gave Away	1.7%	17.8%	Number Harvested Per Capita	0.02	0.15

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	2	1	0	0	0	1	1	0	0	0	0	5
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	2	1	0	0	0	1	1	0	0	0	0	5
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	2.0	1.0	0.0	0.0	0.0	1.0	1.0	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	2.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	5.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	2.0	1.0	0.0	0.0	0.0	1.0	1.0	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	2.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	5.0
Total Take (%)	0.0%	0.0%	40.0%	20.0%	0.0%	0.0%	0.0%	20.0%	20.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	2.0	3.0	3.0	3.0	3.0	4.0	5.0	5.0	5.0	5.0	5.0	
Cum Take (%)	0.0%	0.0%	40.0%	60.0%	60.0%	60.0%	60.0%	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	1	5	3	1	0	0	0	0	4	2	5	3	1	25
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Total Take	1	5	3	1	0	0	0	0	4	2	5	3	4	28
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0	16.0	14.0	5.0	3.0	1.0	49.0
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	3.0	3.0
Total Take	1.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0	16.0	14.0	5.0	3.0	4.0	52.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.0	5.1	3.1	1.0	0.0	0.0	0.0	0.0	16.3	14.3	5.1	3.1	1.0	49.0
Struck & Lost	0.1	0.3	0.2	0.1	0.0	0.0	0.0	0.0	1.0	0.9	0.3	0.2	0.1	3.0
Total Take	1.1	5.4	3.3	1.1	0.0	0.0	0.0	0.0	17.3	15.2	5.4	3.3	1.1	52.0
Total Take (%)	2.1%	10.4%	6.3%	2.1%	0.0%	0.0%	0.0%	0.0%	33.3%	29.2%	10.4%	6.3%	2.1%	100.0%
Cum. Take	1.1	6.5	9.8	10.8	10.8	10.8	10.8	10.8	28.2	43.5	48.8	52.0	52.0	
Cum Take (%)	2.1%	12.5%	18.8%	20.8%	20.8%	20.8%	20.8%	20.8%	54.2%	83.3%	93.8%	100.0%	100.0%	

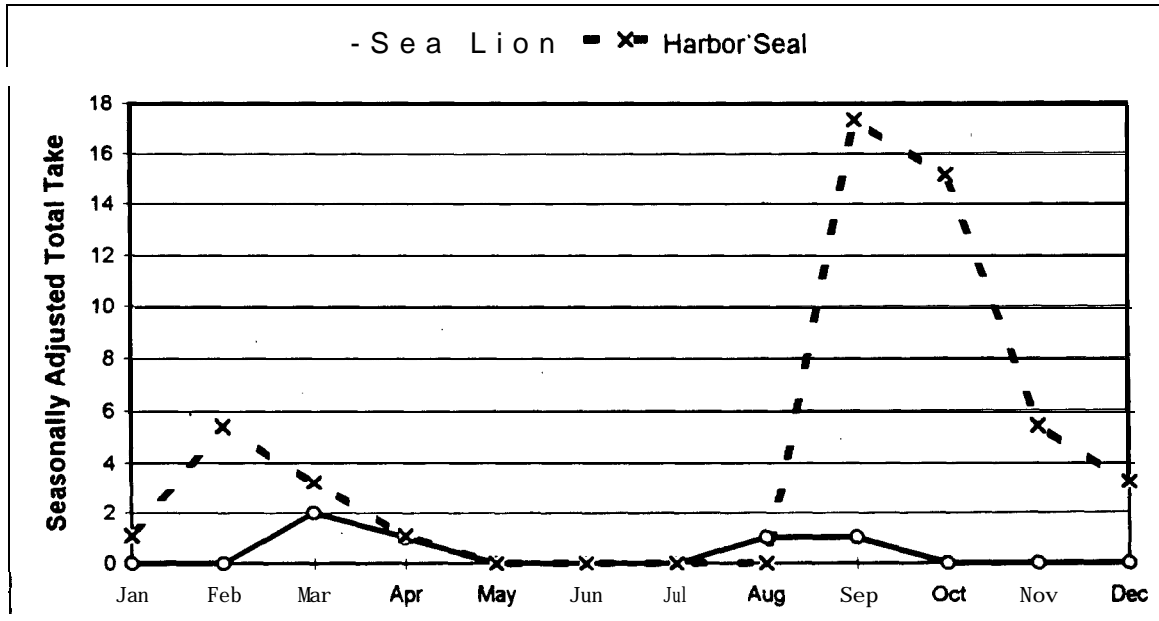
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Agdaagux Tribe of King Cove, Belofski Village Council, and City of King Cove, 1995.

**Table 39. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: King Cove, 1995**

*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%	2.0	40.0%	14	56.0%	26.0	53.1%
Adult Female	1	20.0%	1.0	20.0%	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	2	40.0%	2.0	40.0%	8	32.0%	8.0	16.3%
Juvenile Female	0	0.0%	0.0	0.0%	2	8.0%	14.0	28.6%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	1	4.0%	1.0	2.0%
<b>Total</b>	<b>5</b>	<b>100.0%</b>	<b>5.0</b>	<b>100.0%</b>	<b>25</b>	<b>100.0%</b>	<b>49.0</b>	<b>100.0%</b>

*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/ Total		Year	Harvest	Struck/ Total	
		Lost	Take			Lost	Take
1992	1.3	0.0	1.3	1992	26.0	6.7	32.7
1993	1.2	0.0	1.2	1993	12.6	3.5	16.3
1994	3.2	1.1	4.3	1994	20.9	1.1	22.0
1995	5.0	0.0	5.0	<b>1995</b>	<b>49.0</b>	<b>3.0</b>	<b>52.0</b>

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, 1995

Table 40. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: **Perryville, 1995**

*SAMPLING DESIGN:*

<i>CENSUS</i>	Total Native Households	33
	Surveyed Households	21
	Sampling Fraction	63.6%
	Sample Household Members	79
	Estimated Household Members	124.1

*HARVEST AND USE INFORMATION*

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>	
	<u>Sea Harbor</u>		<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>	<u>Lion</u>	<u>Seal</u>
<b>Used</b>	52.4%	90.5%	Total Number Harvested	3.1 11.0
Hunted	28.6%	52.4%	Total Number Struck and Lost	0.0 3.1
Harvested	4.8%	14.3%	Total Number Taken	3.1 14.1
Received	47.6%	81.0%		
<b>Gave Away</b>	4.8%	14.3%	Number Harvested Per Capita	0.03 0.09

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nw	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	1.6	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	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	1.6	0.0	0.0	0.0	3.1
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	1.6	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	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	1.6	0.0	0.0	0.0	3.1
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%	0.0%	100.0%
Cum Take	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.1	3.1			
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	50.0%	100.0%	100.0%			

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nw	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	1	1	0	0	0	0	1	0	2	0	2	0	0	7
Struck & Lost	0	0	0	0	0	0	0	0	0	0	1	1	0	2
Total Take	1	1	0	0	0	0	1	0	2	0	3	1	0	9
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	1.6	1.6	0.0	0.0	0.0	0.0	1.6	0.0	3.1	0.0	3.1	0.0	0.0	11.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	0.0	3.1
Total Take	1.6	1.6	0.0	0.0	0.0	0.0	1.6	0.0	3.1	0.0	4.7	1.6	0.0	14.1
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	1.6	1.6	0.0	0.0	0.0	0.0	1.6	0.0	3.1	0.0	3.1	0.0	0.0	11.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	0.0	3.1
Total Take	1.6	1.6	0.0	0.0	0.0	0.0	1.6	0.0	3.1	0.0	4.7	1.6	0.0	14.1
Total Take (%)	11.1%	11.1%	0.0%	0.0%	0.0%	0.0%	11.1%	0.0%	22.2%	0.0%	33.3%	11.1%	0.0%	100.0%
Cum. Take	1.6	3.1	3.1	3.1	3.1	3.1	4.7	4.7	7.9	7.9	12.6	14.1		
Cum.Take(%)	11.1%	22.2%	22.2%	22.2%	22.2%	22.2%	33.3%	33.3%	55.6%	55.6%	88.9%	100.0%		

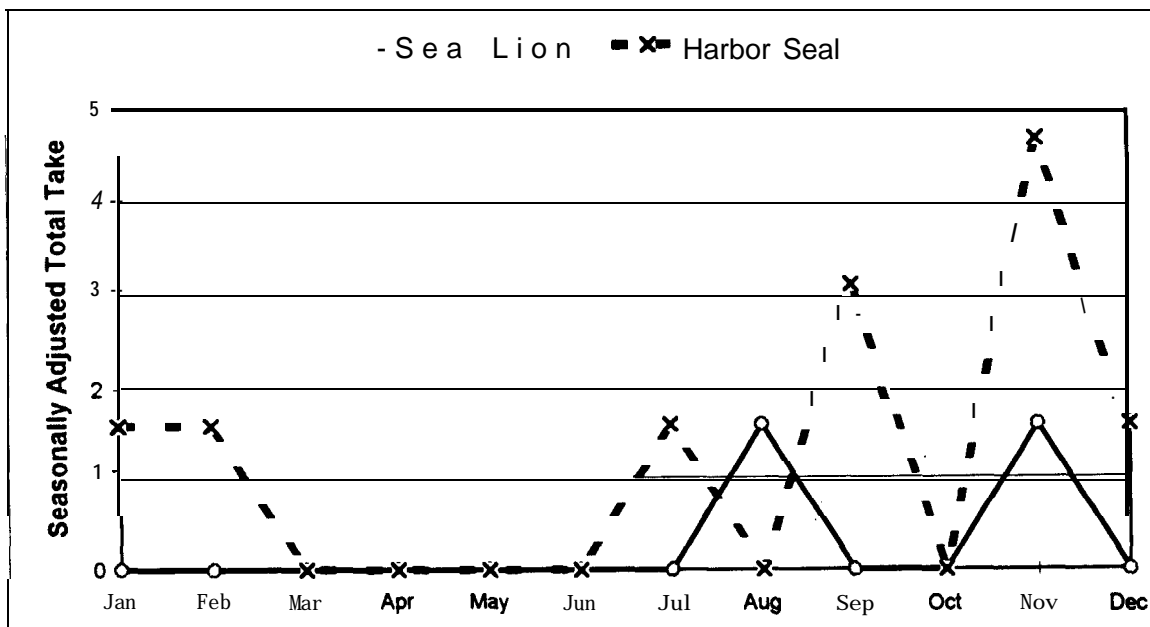
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Perryville Traditional Village Council, 1995.

Table 40. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Perryville, 1995

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	50.0%	1.6	50.0%	2	28.6%	3.1	28.6%
Adult Female	1	50.0%	1.6	50.0%	3	42.9%	4.7	42.9%
Adult Unknown Sex	0	0.0%	0.0	0.0%	2	20.6%	3.1	20.6%
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%
<b>Total</b>	<b>2</b>	<b>100.0%</b>	<b>3.1</b>	<b>100.0%</b>	<b>7</b>	<b>100.0%</b>	<b>11.0</b>	<b>100.0%</b>

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/ Total		Year	Harvest	Struck/ Total	
		Lost	Take			Lost	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

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, 1995.

Table 41. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Sand Point, 1995

SAMPLING DESIGN:		<u>Active</u>	<u>Other</u>	<u>Total</u>
TWO-STRATA	Total Native Households	15	125	140
	Surveyed Households	13	24	37
	Sampling Fraction	86.7%	19.2%	26.4%
	Sample Household Members	56	84	140
	Estimated Household Members	64.6	437.5	502.1

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		
	Sea Harbor <u>Lion</u>	<u>Seal</u>		Sea Harbor <u>Lion</u>	<u>Seal</u>
used	0.0%	16.1%	Total Number Harvested	0.0	9.2
Hunted	0.0%	4.1%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	4.1%	Total Number Taken	0.0	9.2
Received	0.0%	12.0%			
Gave Away	0.0%	2.5%	Number Harvested Per Capita	0.00	0.02

SEA LION HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
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	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	b.p	0.0	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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	0	2	0	0	0	1	1	0	0	2	0	0	8
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	0	2	0	0	0	1	1	0	0	2	0	0	8
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.3	0.0	2.3	0.0	0.0	0.0	1.2	1.2	0.0	0.0	2.3	0.0	0.0	9.2
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	2.3	0.0	2.3	0.0	0.0	0.0	1.2	1.2	0.0	0.0	2.3	0.0	0.0	9.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.3	0.0	2.3	0.0	0.0	0.0	1.2	1.2	0.0	0.0	2.3	0.0	0.0	9.2
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	2.3	0.0	2.3	0.0	0.0	0.0	1.2	1.2	0.0	0.0	2.3	0.0	0.0	9.2
Total Take (%)	25.0%	00%	25.0%	00%	0.0%	0.0%	12.5%	12.5%	0.0%	0.0%	25.0%	0.0%	0.0%	100.0%
Cum. Take	2.3	2.3	4.6	4.6	4.6	4.6	5.8	6.9	6.9	6.9	9.2	9.2	9.2	9.2
Cum. Take (%)	25.0%	25.0%	50.0%	50.0%	50.0%	62.5%	75.0%	75.6%	75.6%	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 City of Sand Point, Unga Tribal Council, and Gagan Tayagungi Tribe of Sand Point, 1995

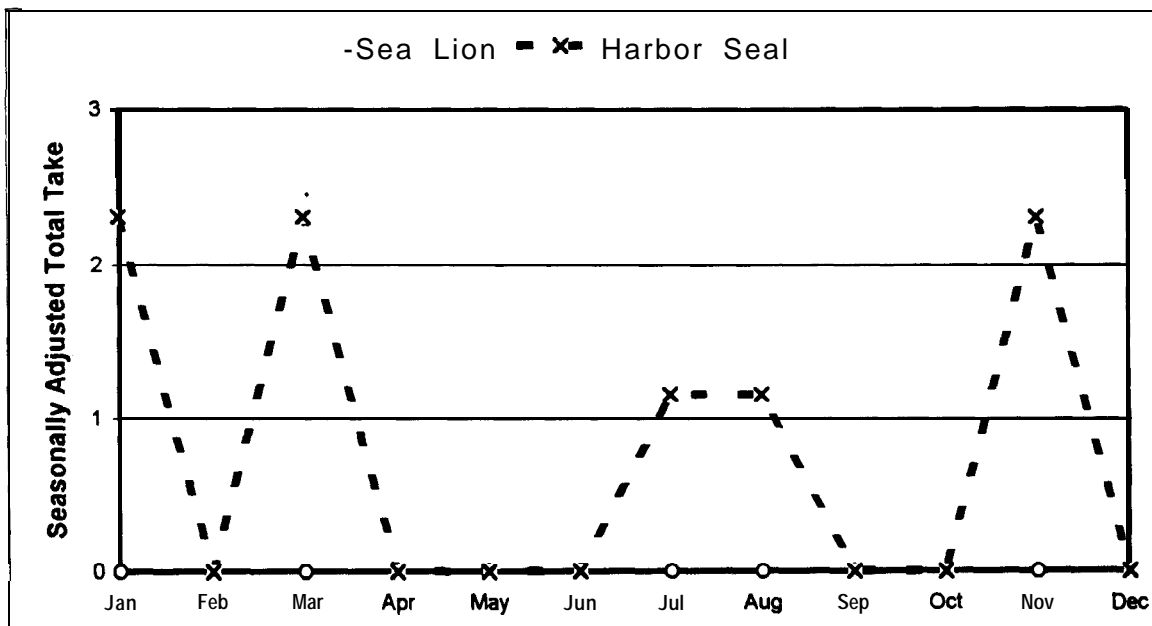


Table 41. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Sand Point, 1995

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	5	62.5%	5.8	62.5%
Adult Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	--	0.0	--	1	12.5%	1.2	12.5%
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	12.5%	1.2	12.5%
Pup Male	0	--	0.0	--	1	12.5%	1.2	12.5%
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%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>a</b>	<b>100.0%</b>	<b>9.2</b>	<b>100.0%</b>

**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

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, 1995.

Table 42. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Akutan, 1995

**SAMPLING DESIGN:  
CENSUS**

Total Native Households	31
Surveyed Households	31
Sampling Fraction	100.0%
Sample Household Members	73
Estimated Household Members	73.0

**HARVEST AND USE INFORMATION**

*Percentage of Native Households:*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
used	100.0%	1000%
Hunted	9.7%	12.9%
Harvested	9.7%	97%
Received	100.0%	100.0%
Gave Away	6.5%	97%

*Estimated Community Harvest  
and Take (Expanded):*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	6.0	7.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	6.0	7.0
Number Harvested Per Capita	0.08	0.10

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	2	2	0	2	0	0	0	0	0	0	0	6
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	2	2	0	2	0	0	0	0	0	0	0	6
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	2.0	2.0	0.0	2.0	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	0.0	2.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	2.0	2.0	0.0	2.0	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	0.0	2.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
Total Take (%)	0.0%	0.0%	33.3%	33.3%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum Take	0.0	0.0	2.0	4.0	4.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	
Cum Take (%)	0.0%	0.0%	33.3%	66.7%	66.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	1	1	0	0	2	0	0	0	1	1	1	0	0	7
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	1	0	0	2	0	0	0	1	1	1	0	0	7
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.0	1.0	0.0	0.0	2.0	0.0	0.0	0.0	1.0	1.0	1.0	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	1.0	1.0	0.0	0.0	2.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	7.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.0	1.0	0.0	0.0	2.0	0.0	0.0	0.0	1.0	1.0	1.0	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	1.0	1.0	0.0	0.0	2.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	7.0
Total Take (%)	14.3%	14.3%	0.0%	0.0%	28.6%	0.0%	0.0%	0.0%	14.3%	14.3%	14.3%	0.0%	0.0%	100.0%
Cum. Take	1.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0	5.0	6.0	7.0	7.0	7.0	
Cum. Take (%)	14.3%	26.6%	26.6%	26.6%	57.1%	57.1%	57.1%	57.1%	71.4%	65.7%	100.0%	100.0%	100.0%	

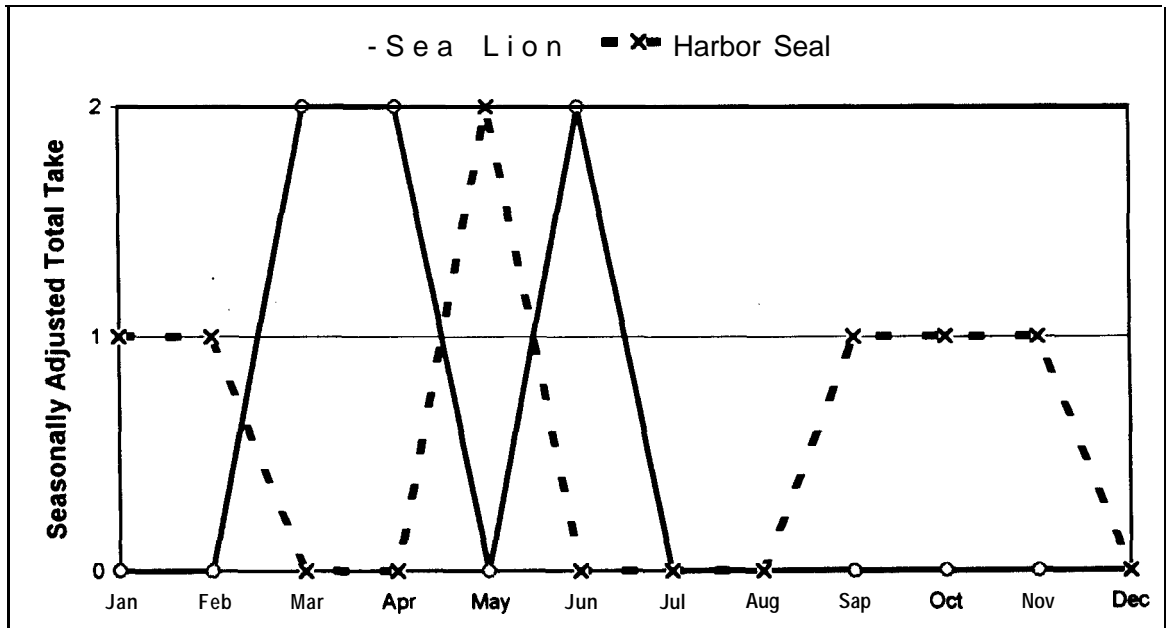
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Akutan Traditional Village Council, City of Akutan, and Akutan Corporation, 1995.

Table 42. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Akutan, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	3	50.0%	3 . 0	50.0%	6	66.7%	6 . 0	85.7%
Adult Female	2	333%	2.0	333%	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	16.7%	1.0	16.7%	1	14.3%	1.0	14.3%
Juvenile Female	0	00%	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%	00	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%
<b>Total</b>	<b>6</b>	<b>100.0%</b>	<b>6 . 0</b>	<b>100.0%</b>	<b>7</b>	<b>100.0%</b>	<b>7.0</b>	<b>100.0%</b>

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	6.9	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

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, 1995

**Table 43. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Atka, 1995**

*SAMPLING DESIGN:*

<i>CENSUS</i>	Total Native Households	25
	Surveyed Households	10
	Sampling Fraction	40.0%
	Sample Household Members	38
	Estimated Household Members	95.0

*HARVEST AND USE INFORMATION*

*Percentage of Native Households:*

	<i>Sea Harbor</i>	
	<u>Lion</u>	<u>Seal</u>
used	90.0%	90.0%
Hunted	50.0%	50.0%
Harvested	30.0%	50.0%
Received	80.0%	90.0%
Gave Away	30.0%	50.0%

*Estimated Community Harvest and Take (Expanded):*

	<i>Sea Harbor</i>	
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	40.0	42.5
Total Number Struck and Lost	0.0	0.0
Total Number Taken	40.0	42.5
Number Harvested Per Capita	0.42	0.45

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	0	0	0	0	0	0	1	1	3	3	4	4	4	16
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	1	3	3	4	4	4	16
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	7.5	7.5	10.0	10.0	10.0	40.0
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	2.5	2.5	7.5	7.5	10.0	10.0	10.0	40.0
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	10.0	10.0	13.3	13.3	13.3	40.0
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	3.3	3.3	10.0	10.0	13.3	13.3	13.3	40.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	6.3%	25.0%	25.0%	33.3%	33.3%	33.3%	100.0%
Cum Take	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.7	16.7	26.7	40.0	40.0	40.0	40.0
Cum Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	16.7%	41.7%	77.7%	100.0%	100.0%	100.0%	100.0%

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	0	0	1	0	0	0	2	2	1	3	3	1	4	17
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	1	0	0	0	2	2	1	3	3	1	4	17
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	2.5	0.0	0.0	0.0	5.0	5.0	2.5	7.5	7.5	2.5	10.0	42.5
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	0.0	0.0	2.5	0.0	0.0	0.0	5.0	5.0	2.5	7.5	7.5	2.5	10.0	42.5
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	3.3	0.0	0.0	0.0	6.5	6.5	3.3	9.8	9.8	3.3	13.1	42.5
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	0.0	0.0	3.3	0.0	0.0	0.0	6.5	6.5	3.3	9.8	9.8	3.3	13.1	42.5
Total Take (%)	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	15.4%	15.4%	7.7%	23.1%	23.1%	7.7%	31.5%	100.0%
Cum Take	0.0	0.0	3.3	3.3	3.3	3.3	9.8	16.3	19.6	29.4	39.2	42.5	42.5	42.5
Cum Take (%)	0.0%	0.0%	7.7%	7.7%	7.7%	7.7%	23.1%	38.5%	46.2%	59.2%	92.3%	100.0%	100.0%	100.0%

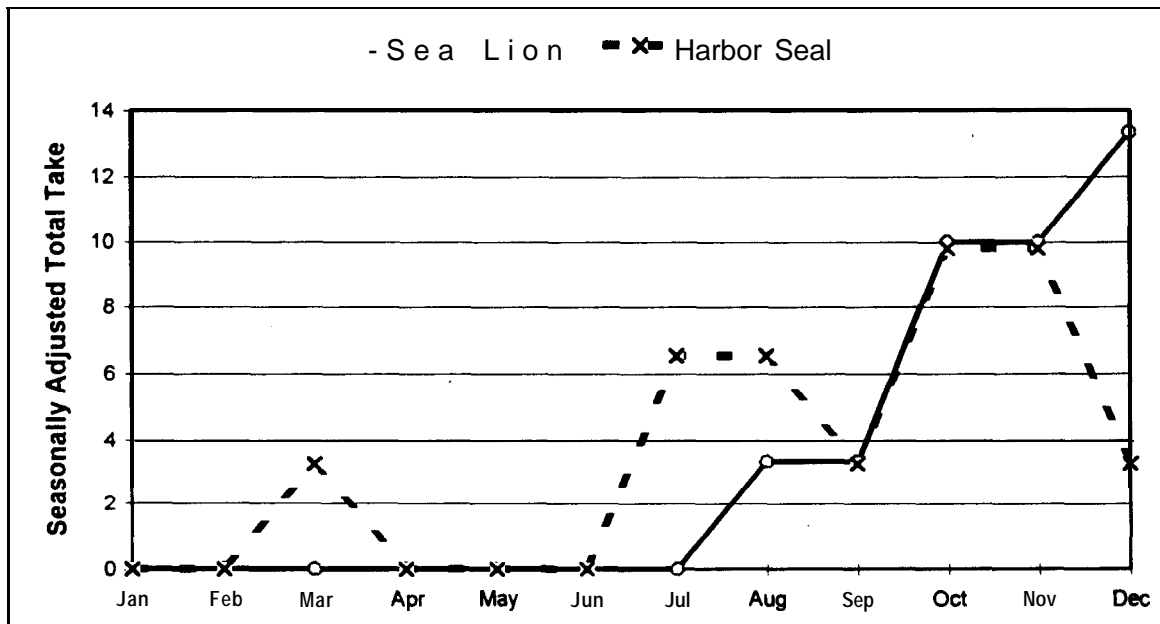
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Atka IRA Council and City of Atka, 1995

**Table 43. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Atka, 1995**

*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	4	25.0%	10.0	25.0%	11	64.7%	27.5	64.7%
Adult Female	5	31.3%	12.5	31.3%	1	5.9%	2.5	5.9%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	1	6.3%	2.5	6.3%	1	5.9%	2.5	5.9%
Juvenile Female	2	12.5%	5.0	12.5%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	4	25.0%	10.0	25.0%	4	23.5%	10.0	23.5%
<b>Total</b>	<b>16</b>	<b>100.0%</b>	<b>40.0</b>	<b>100.0%</b>	<b>17</b>	<b>100.0%</b>	<b>42.5</b>	<b>100.0%</b>

*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	28.6	9.9	38.5	1992	28.6	9.9	38.5
1993	25.1	0.0	25.1	1993	32.7	0.0	32.7
1994	45.5	8.7	54.2	1994	73.7	8.7	82.3
<b>1995</b>	<b>40.0</b>	<b>0.0</b>	<b>40.0</b>	<b>1995</b>	<b>42.5</b>	<b>0.0</b>	<b>42.5</b>

SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lion and Harbor Seals in Alaska, with assistance from the Atka IRA Council and City of Atka, 1995.

**Table 44. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Nikolski, 1995**

*SAMPLING DESIGN:*

*CENSUS*

Total Native Households      No Data  
 Surveyed Households  
 Sampling Fraction  
 Sample Household Members  
 Estimated Household Members

*HARVEST AND USE INFORMATION*

*Percentage of Native Households:*

Sea Harbor  
Lion   Seal  
 Used  
 Hunted  
 Harvested      No data  
 Received  
 Gave Away

*Estimated Community Harvest and Take (Expanded):*

Sea Harbor  
Lion   Seal  
 Total Number Harvested  
 Total Number Struck and Lost  
 Total Number Taken      No data  
 Number Harvested Per Capita

<i>SEA LION HARVEST BY MONTH</i>												Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>													
Harvest													
Struck & Lost													
Total Take													
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>												No Data	
Harvest													
Struck & Lost													
Total Take													
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>													
Harvest													
Struck & Lost													
Total Take													
Total Take (%)													
Cum Take													
Cum Take (%)													

<i>HARBOR SEAL HARVEST BY MONTH</i>												Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>													
Harvest													
Struck & Lost													
Total Take													
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>												No Data	
Harvest													
Struck & Lost													
Total Take													
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>													
Harvest													
Struck & Lost													
Total Take													
Total Take (%)													
Cum Take													
Cum Take (%)													

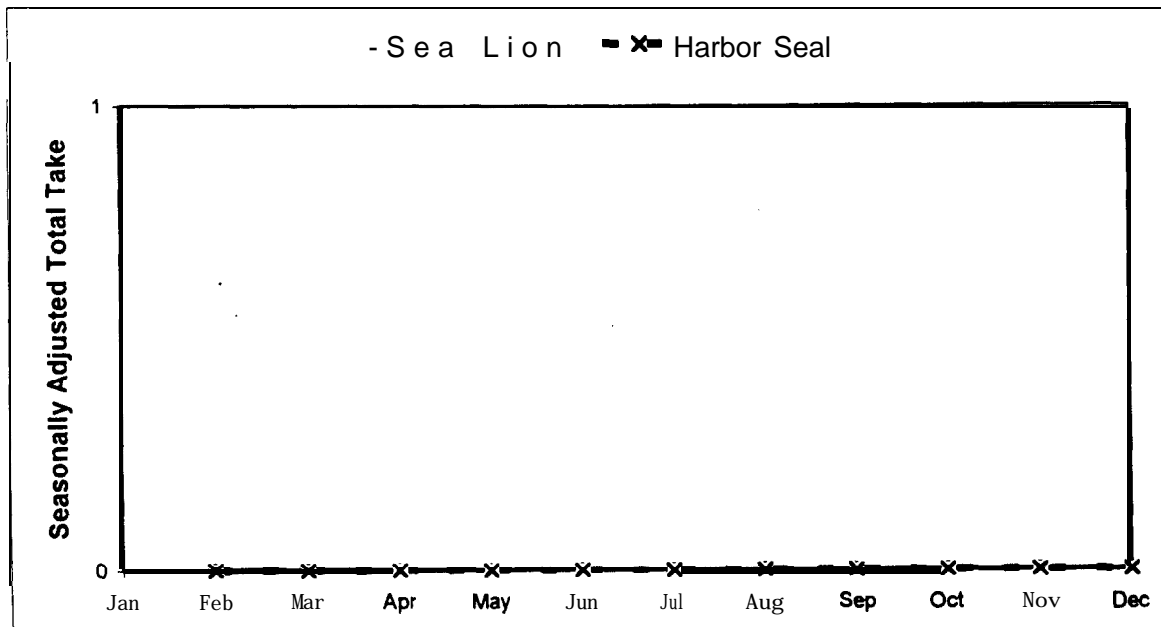
SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nikolski IRA Council and Chaluka Corporation, 1995.

**Table 44. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Nikolski, 1995**

*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								
Adult Female								
Adult Unknown Sex								
Juvenile Male								
Juvenile Female								
Juvenile Unknown Sex								
Pup Male			No Data		No Data			
Pup Female								
Pup Unknown Sex								
Male Unknown Age								
Female Unknown Age								
Unknown Sex and Age								
Total								

*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/ Total		Year	Harvest	struck/ Total	
		Lost	Take			Lost	Take
1992	8.2	0.0	8.2	1992	5.8	3.5	9.3
1993	6.0	0.0	6.0	<b>1993</b>	4.0	1.0	5.0
<b>1994</b>	0.0	0.0	0.0	<b>1994</b>	6.0	0.0	6.0
<b>1995</b>		No Data		1995		No Data	

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, 1995.

Table 45. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Unalaska, 1995

SAMPLING DESIGN:		Active	Other	Total
TWO-STRATA	Total Native Households	32	73	105
	Surveyed Households	23	20	43
	Sampling Fraction	71.9%	27.4%	41.0%
	Sample Household Members'	75	52	127
	Estimated Household Members	104.3	189.8	294.1

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):	
	Sea Harbor Lion	Seal	Sea Lion	Harbor Seal
used	25.8%	26.7%	Total Number Harvested	39.0 37.4
Hunted	6.6%	8.8%	Total Number Struck and Lost	11.1 9.7
Harvested	6.6%	8.8%	Total Number Taken	50.1 47.1
Received	25.8%	21.9%		
Gave Away	6.6%	8.8%	Number Harvested Per Capita	0.13 0.13

SEA LION HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	5	3	3	0	0	1	0	2	1	3	1	9	0	28
Struck & Lost	1	0	1	1	0	0	0	1	0	1	1	2	0	8
Total Take	6	3	4	1	0	1	0	3	1	4	2	11	0	36
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	7.0	4.2	4.2	0.0	0.0	1.4	0.0	2.8	1.4	4.2	1.4	12.5	0.0	39.0
Struck & Lost	1.4	0.0	1.4	1.4	0.0	0.0	0.0	1.4	0.0	1.4	1.4	2.8	0.0	11.1
Total Take	8.3	4.2	5.6	1.4	0.0	1.4	0.0	4.2	1.4	5.6	2.8	15.3	0.0	50.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	7.0	4.2	4.2	0.0	0.0	1.4	0.0	2.6	1.4	4.2	1.4	12.5		39.0
Struck & Lost	1.4	0.0	1.4	1.4	0.0	0.0	0.0	1.4	0.0	1.4	1.4	2.8		11.1
Total Take	8.3	4.2	5.6	1.4	0.0	1.4	0.0	4.2	1.4	5.6	2.8	15.3		50.1
Total Take (%)	16.7%	8.3%	11.1%	2.8%	0.0%	28%	00%	83%	2.8%	11.1%	5.6%	30.8%		100.0%
Cum. Take	8.3	12.5	18.1	19.5	19.5	20.9	209	250	264	32.0	34.8	50.1		
Cum. Take(%)	16.7%	250%	361%	389%	389%	417%	417%	50.0%	528%	639%	69.4%	100.0%		

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	3	1	1	1	0	0	0	1	5	5	4	0	22
Struck & Lost	0	0	1	0	0	0	0	0	1	1	1	3	0	7
Total Take	1	3	2	1	1	0	0	0	2	6	6	7	0	29
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.4	4.2	1.4	1.4	1.4	0.0	0.0	0.0	1.4	7.0	13.7	5.6	0.0	37.4
Struck & Lost	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	4.2	0.0	9.7
Total Take	1.4	4.2	2.8	1.4	1.4	0.0	0.0	0.0	2.8	8.3	15.1	9.7	0.0	47.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.4	4.2	1.4	1.4	1.4	0.0	0.0	0.0	1.4	7.0	13.7	5.6		37.4
Struck & Lost	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	4.2		9.7
Total Take	1.4	4.2	2.8	1.4	1.4	0.0	0.0	0.0	2.8	8.3	15.1	9.7		47.1
Total Take (%)	3.0%	8.9%	5.9%	30%	3.0%	00%	00%	00%	5.9%	17.7%	32.1%	20.7%		100.0%
Cum. Take	1.4	5.6	8.3	9.7	11.1	11.1	11.1	11.1	13.9	22.3	37.4	47.1		
Cum. Take (%)	3.0%	11.6%	11.1%	20.7%	23.6%	23.6%	236%	236%	295%	47.2%	79.3%	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 Qawalangin Tribal Council, 1995.

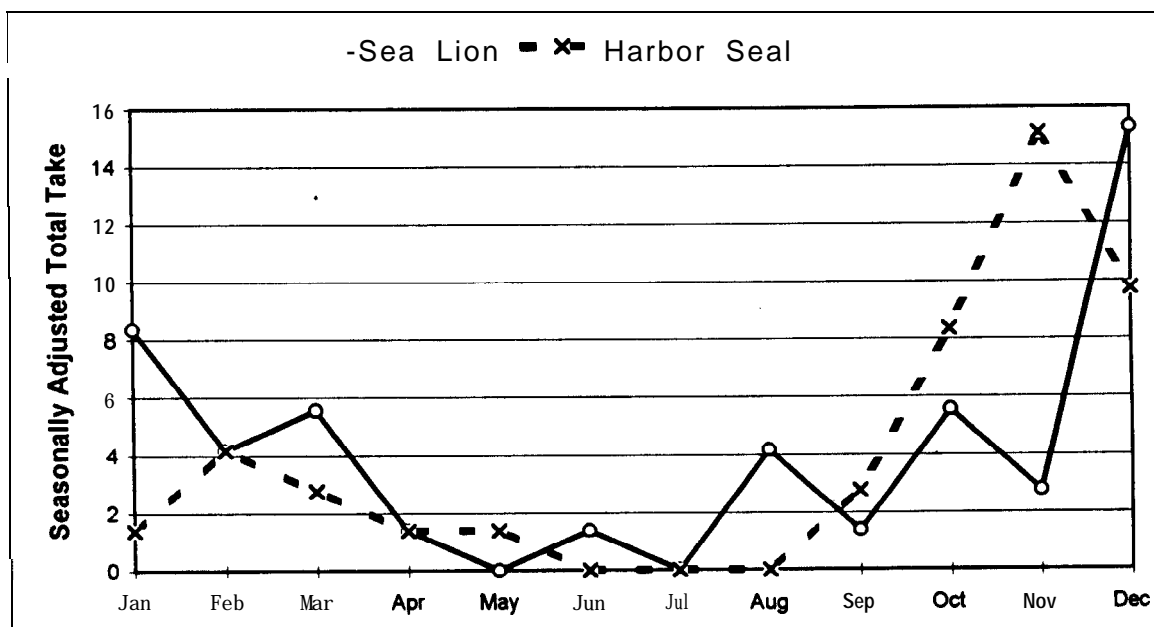


Table 45. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Unalaska, 1995

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	17.9%	7.0	17.9%	10	45.5%	20.7	55.3%
Adult Female	1	3.6%	1.4	3.6%	1	4.5%	1.4	3.7%
Adult Unknown Sex	1	3.6%	1.4	3.6%	1	4.5%	1.4	3.7%
Juvenile Male	12	42.9%	16.7	42.9%	5	22.7%	7.0	18.6%
Juvenile Female	3	10.7%	4.2	10.7%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	6	21.4%	0.3	21.4%	5	22.7%	7.0	10.6%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	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%
<b>Total</b>	<b>28</b>	<b>100.0%</b>	<b>39.0</b>	<b>100.0%</b>	<b>22</b>	<b>100.0%</b>	<b>37.4</b>	<b>100.0%</b>

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	41.6	16.7	66.5	1992	47.0	3.7	50.8
1993	53.4	15.9	69.3	1993	32.7	9.9	42.6
1994	43.6	6.4	51.9	1994	31.4	10.5	41.6
1996	39.0	11.1	50.1	1996	37.4	9.7	47.1

SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lion and Harbor Seals in Alaska, with assistance from the Qawalangin Tribal Council, 1995.

Table 46. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: St. George, 1995

*SAMPLING DESIGN:*

<i>CENSUS</i>	Total Native Households	42
	Surveyed Households	42
	Sampling Fraction	100.0%
	Sample Household Members	131
	Estimated Household Members	131.0

*HARVEST AND USE INFORMATION*

*Percentage of Native Households:*

	<i>Sea Harbor</i>	
	<u>Lion</u>	<u>Seal</u>
used	19.0%	0.0%
Hunted	11.9%	0.0%
Harvested	4.8%	0.0%
Received	14.3%	0.0%
Gave Away	2.4%	0.0%

*Estimated Community Harvest and Take (Expanded):*

	<i>Sea Harbor</i>	
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	4.0	0.0
Total Number Struck and Lost	4.0	0.0
Total Number Taken	8.0	0.0
Number Harvested Per Capita	0.03	0.00

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nw	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	0	4	0	0	0	0	0	0	0	0	0	0	0	4
Struck & Lost	0	1	0	0	0	0	0	0	0	0	0	0	3	4
Total Take	0	5	0	0	0	0	0	0	0	0	0	0	3	8
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
Struck & Lost	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	4.0
Total Take	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	8.0
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
Struck & Lost	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
Total Take	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
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%	0.0%	100.0%
Cum Take	0.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	
Cum Take (%)	0.0%	100.0%	190.0%	100.0%	100.0%	100.0%	100.0%	100.9%	100.0%	100.0%	100.0%	100.0%	100.0%	

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	
Cum. Take(%)	---	---	---	---	---	---	---	---	---	---	---	---	---	

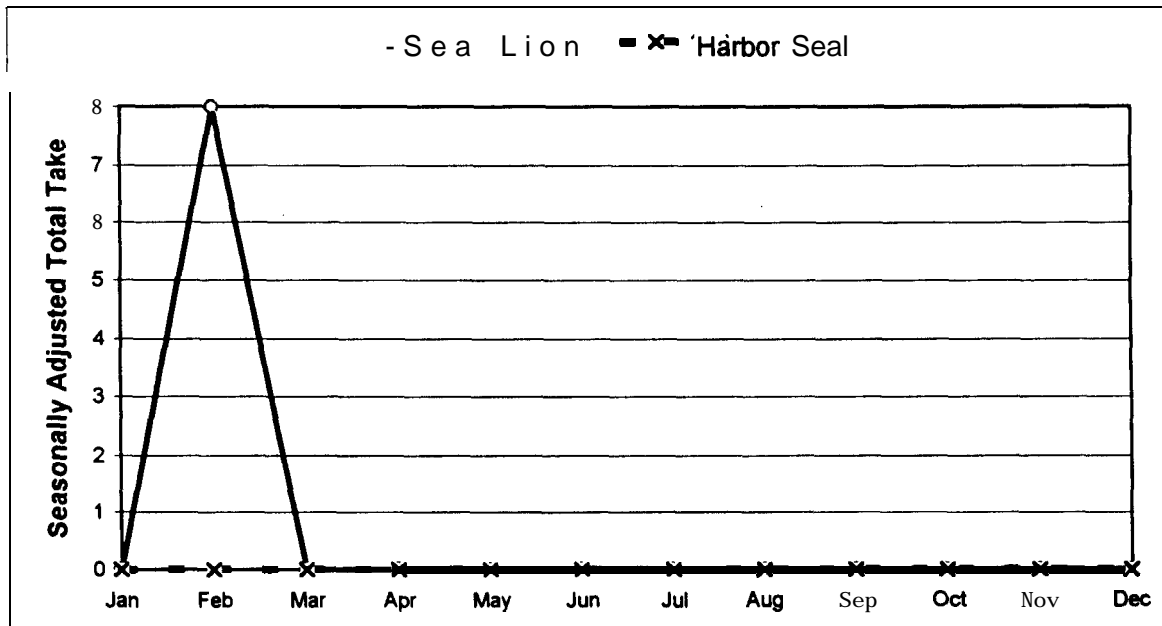
SOURCE. Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporalron, 1995

Table 46. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: St. George, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	4	100.0%	4.0	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	--
<b>Total</b>	<b>4</b>	<b>100.0%</b>	<b>4.0</b>	<b>100.0%</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>

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	89.9	1992	0.0	0.0	0.0
1993	3.7	14.8	18.8	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

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, 1995.

**Table 47. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: St. Paul, 1995**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>	Total Native Households	59	100	159
	Surveyed Households	47	29	76
	Sampling Fraction	79.7%	29.0%	47.0%
	Sample Household Members	210	108	318
	Estimated Household Members	263.6	372.4	636.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	<u>Sea Lion</u>	<u>Harbor Seal</u>		<u>Sea Lion</u>	<u>Harbor Seal</u>
Used	62.3%	3.9%	Total Number Harvested	53.6	2.5
Hunted	21.7%	0.8%	Total Number Struck and Lost	6.3	0.0
Harvested	17.8%	0.8%	Total Number Taken	59.9	2.5
Received	57.8%	3.2%			
Gave Away	18.5%	0.8%	Number Harvested Per Capita	0.08	0.00

<i>SEA LION HARVEST BY MONTH</i>													<u>Unknown</u>	<u>Total</u>
<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Month</u>		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	3	4	0	0	10	0	0	0	3	8	3	3	0	34
Struck & Lost	0	0	3	0	1	0	0	0	0	0	0	0	1	5
Total Take	3	4	3	0	11	0	0	0	3	8	3	3	1	39
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	3.0	7.2	0.0	0.0	19.1	0.0	0.0	0.0	3.8	12.2	3.8	3.0	0.0	53.6
Struck & Lost	0.0	0.0	3.8	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.3
Total Take	3.6	7.2	3.0	0.0	20.4	0.0	0.0	0.0	3.8	12.2	3.8	3.8	1.3	59.9
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	3.8	7.2	0.0	0.0	19.1	0.0	0.0	0.0	3.6	12.2	3.8	3.8		53.6
Struck & Lost	0.0	0.0	4.7	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		6.3
Total Take	3.8	7.2	4.7	0.0	20.7	0.0	0.0	0.0	3.8	12.2	3.8	3.8		59.9
Total Take (%)	6.3%	12.0%	7.9%	0.0%	34.5%	0.0%	0.0%	0.0%	6.3%	26.4%	6.3%	6.3%		100.0%
Cum. Take	3.8	11.0	15.7	15.7	36.4	36.4	36.4	36.4	48.2	52.4	56.2	59.9		
Cum. Take (%)	63%	18.3%	26.2%	26.2%	68.7%	60.7%	60.7%	60.7%	60.7%	67.8%	07.4%	93.7%	100.0%	

<i>HARBOR SEAL HARVEST BY MONTH</i>													<u>Unknown</u>	<u>Total</u>
<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Month</u>		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	2	0	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	2	0	0	0	0	0	0	0	0	0	0	0	0	2
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.5
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.5
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	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5		
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%		

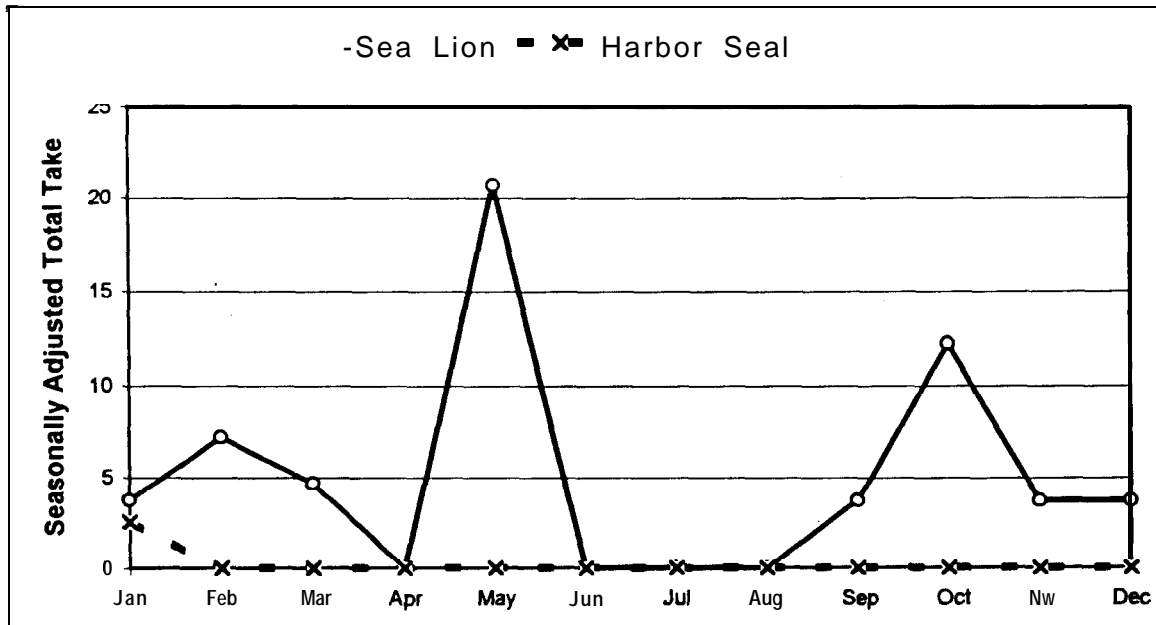
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the City of St. Paul and Tribal Government of St. Paul, 1995.

**Table 47. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: St. Paul, 1995**

*HARVEST BY AGE AND SEX*

	Sea Lion				Harbor Seal			
	Reported by		Community Est		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	2	5.9%	2.5	4.7%	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	26	76.5%	34.0	64.9%	2	100.0%	2.5	100.0%
Juvenile Female	2	5.9%	2.5	4.7%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	3	0.0%	10.3	19.3%	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	1	2.9%	3.4	6.4%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>34</b>	<b>100.0%</b>	<b>536</b>	<b>100.0%</b>	<b>2</b>	<b>100.0%</b>	<b>2.5</b>	<b>100.0%</b>

*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/ Total		Year	Harvest	Struck/ Total	
		Lost	Take			Lost	Take
1992	161.7	66.2	226.6	1992	2.3	1.2	3.5
1993	161.7	66.2	226.6	1993	2.3	1.2	3.5
1994	147.0	26.4	173.4	1994	7.3	0.0	7.3
<b>1995</b>	<b>63.6</b>	<b>6.3</b>	<b>59.9</b>	<b>1995</b>	<b>2.5</b>	<b>0.0</b>	<b>2.5</b>

SOURCE Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Liis and Harbor Seals in Alaska, with assistance from the City of St Paul and Tribal Government of St. Paul, 1995

**Table 48. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Egegik, 1995**

*SAMPLING DESIGN:*

<i>CENSUS</i>	Total Native Households	36
	Surveyed Households	26
	Sampling Fraction	72.2%
	Sample Household Members	56
	Estimated Household Members	60.3

*HARVEST AND USE INFORMATION*

*Percentage of Native Households:*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
used	0.0%	7.7%
Hunted	0.0%	3.0%
Harvested	0.0%	3.8%
Received	0.0%	3.8%
Gave Away	0.0%	0.0%

*Estimated Community Harvest and Take (Expanded):*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	0.0	1.4
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	1.4
Number Harvested Per Capita	0.00	0.02

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	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	1.4	0.0	0.0	0.0	0.0	1.4
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	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	1.4	0.0	0.0	0.0	0.0	1.4
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%	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	1.4	1.4	1.4	1.4
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%	100.0%	100.0%

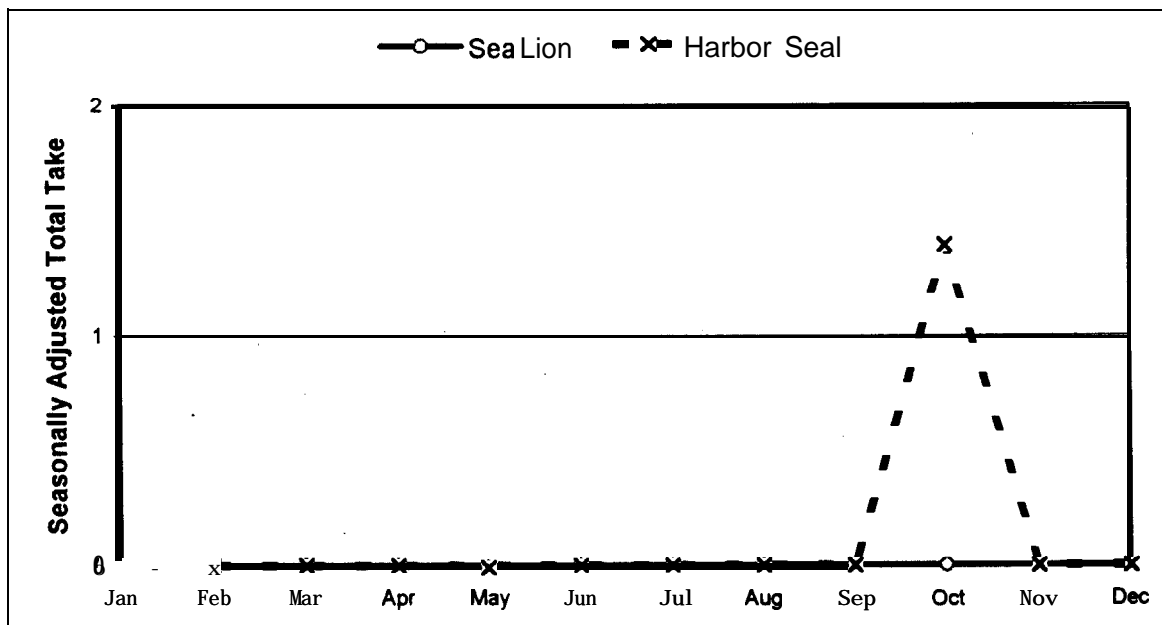
SOURCE: Alaska Department of Fish and Game, Division of Subsistence Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Akask with assistance from the Egegik Traditional Council, 1995.

**Table 48. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: Egegik, 1995**

**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%	1.4	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%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>1</b>	<b>100.0%</b>	<b>1.4</b>	<b>100.0%</b>

**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
<b>1995</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1995</b>	<b>1.4</b>	<b>0.0</b>	<b>1.4</b>

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seal in Alaska, with assistance from the Egegik Traditional Council, 1995.

Table 49. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: King Salmon, 1996

*SAMPLING DESIGN:*

<i>CENSUS</i>	Total Native Households	26
	Surveyed Households	26
	Sampling Fraction	1090%
	Sample Household Members	79
	Estimated Household Members	79.0

*HARVEST AND USE INFORMATION*

*Percentage of Native Households:*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
<b>Used</b>	0.0%	34.6%
<b>Hunted</b>	0.0%	19.2%
<b>Harvested</b>	0.0%	15.4%
<b>Received</b>	0.0%	23.1%
<b>Gave Away</b>	0.0%	15.4%

*Estimated Community Harvest and Take (Expanded):*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	0.0	13.0
Total Number Struck and Lost	0.0	3.0
Total Number Taken	0.0	16.0
Number Harvested Per Capita	0.00	0.16

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum. Take(%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	7	0	0	1	4	1	0	0	0	0	13
Struck & Lost	0	0	0	0	0	1	2	0	0	0	0	0	0	3
Total Take	0	0	0	7	0	1	3	4	1	0	0	0	0	16
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	7.0	0.0	0.0	1.0	4.0	1.0	0.0	0.0	0.0	0.0	13.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
Total Take	0.0	0.0	0.0	7.0	0.0	1.0	3.0	4.0	1.0	0.0	0.0	0.0	0.0	16.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	7.0	0.0	0.0	1.0	4.0	1.0	0.0	0.0	0.0	0.0	13.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
Total Take	0.0	0.0	0.0	7.0	0.0	1.0	3.0	4.0	1.0	0.0	0.0	0.0	0.0	16.0
Total Take (%)	0.0%	0.0%	0.0%	43.8%	0.0%	6.3%	18.8%	25.0%	6.3%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	7.0	7.0	8.0	11.0	15.0	16.0	16.0	16.0	16.0	16.0	16.0
Cum. Take (%)	0.0%	0.0%	0.0%	43.8%	43.8%	50.0%	68.8%	93.6%	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 King Salmon Traditional Council, 1996.

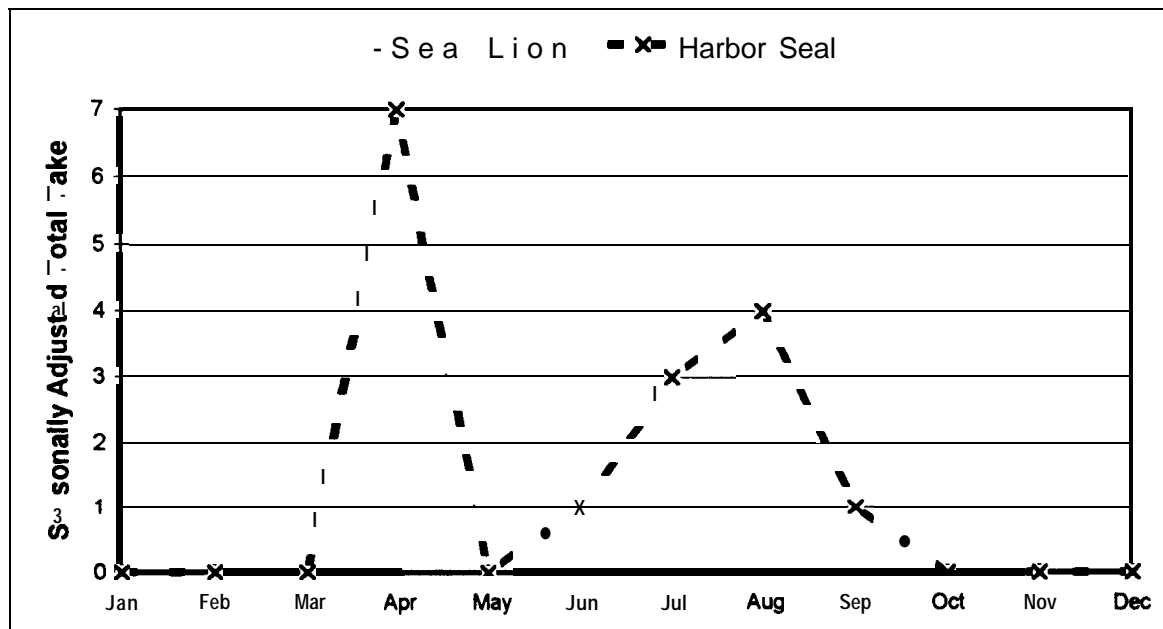


Table 49. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: King Salmon, 1995

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	15.4%	2.0	15.4%
Adult Female	0	---	0.0	---	2	15.4%	2.0	15.4%
Adult Unknown Sex	0	---	0.0	---	9	69.2%	9.0	69.2%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>13</b>	<b>100.0%</b>	<b>13.0</b>	<b>100.0%</b>

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	13.0	3.0	16.0
1995	0.0	0.0	0.0	1995	13.0	3.0	16.0

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, 1995.

Table 50. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Levelock, 1995

**SAMPLING DESIGN:**

**CENSUS**

Total Native Households	32
Surveyed Households	32
Sampling Fraction	100.0%
Sample Household Members	75
Estimated Household Members	75.0

**HARVEST AND USE INFORMATION**

*Percentage of Native Households:*

	<b>Sea Harbor</b>	
	<u>Lion</u>	<u>Seal</u>
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):*

	<b>Sea Harbor</b>	
	<u>Lion</u>	<u>Seal</u>
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

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

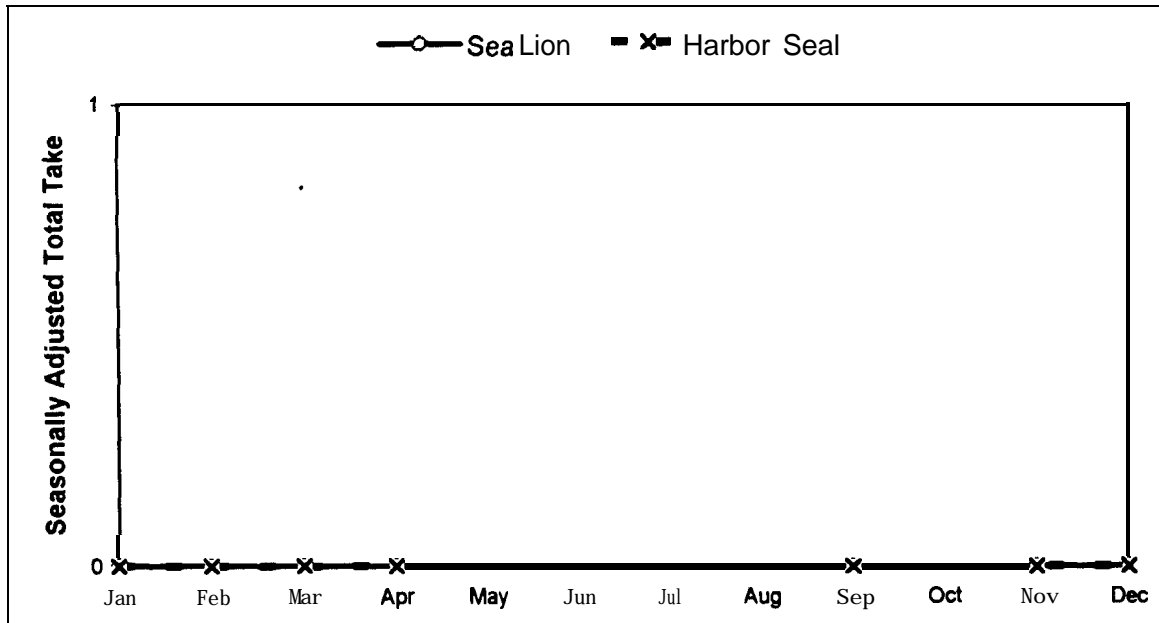
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Levelock Traditional Council, 1995

Table 50. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Levelock, 1995

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	--
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>

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/ Total		Year	Harvest	Struck/ Total	
		Lost	Take			Lost	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

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, 1995

**Table 51. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Naknek, 1995**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>	Total Native Households	15	72	87
	Surveyed Households	15	26	41
	Sampling Fraction	100.0%	36.1%	47.1%
	Sample Household Members	53	70	123
	Estimated Household Members	53.0	193.8	246.8

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>	
<i>Sea Harbor</i>			<i>Sea</i>	<i>Harbor</i>
	<u>Lion</u>	<u>Seal</u>	<u>Lion</u>	<u>Seal</u>
used	0.0%	56.3%	Total Number Harvested	0.0    34.8
Hunted	0.0%	167%	Total Number Struck and Lost	0.0    15.3
Harvested	0.0%	144%	Total Number Taken	0.0    50.2
Received	0.0%	431%		
Gave Away	0.0%	29.2%	Number Harvested Per Capita	0.00    0.14

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	0	0	0	2	2	2	1	12	5	2	0	0	0	26
Struck & Lost	0	0	0	2	1	0	0	4	3	0	0	0	0	10
Total Take	0	0	0	4	3	2	1	16	8	2	0	0	0	36
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	2.0	2.0	2.0	1.0	17.3	8.5	2.0	0.0	0.0	0.0	34.8
Struck & Lost	0.0	0.0	0.0	2.0	1.0	0.0	0.0	5.0	6.5	0.0	0.0	0.0	0.0	15.3
Total Take	0.0	0.0	0.0	4.0	3.0	2.0	1.0	23.1	15.1	2.0	0.0	0.0	0.0	50.2
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	2.0	2.0	2.0	1.0	17.3	0.5	2.0	0.0	0.0	0.0	34.8
Struck & Lost	0.0	0.0	0.0	2.0	1.0	0.0	0.0	5.8	6.5	0.0	0.0	0.0	0.0	15.3
Total Take	0.0	0.0	0.0	4.0	3.0	2.0	1.0	23.1	15.1	2.0	0.0	0.0	0.0	50.2
Total Take (%)	0.0%	0.0%	0.0%	8.0%	6.0%	4.0%	2.0%	46.0%	30.1%	4.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	4.0	7.0	9.0	10.0	33.1	48.2	50.2	50.2	50.2	50.2	50.2
Cum. Take (%)	0.0%	0.0%	0.0%	8.0%	14.0%	17.9%	19.9%	66.0%	96.0%	100.0%	100.0%	100.0%	100.0%	100.0%

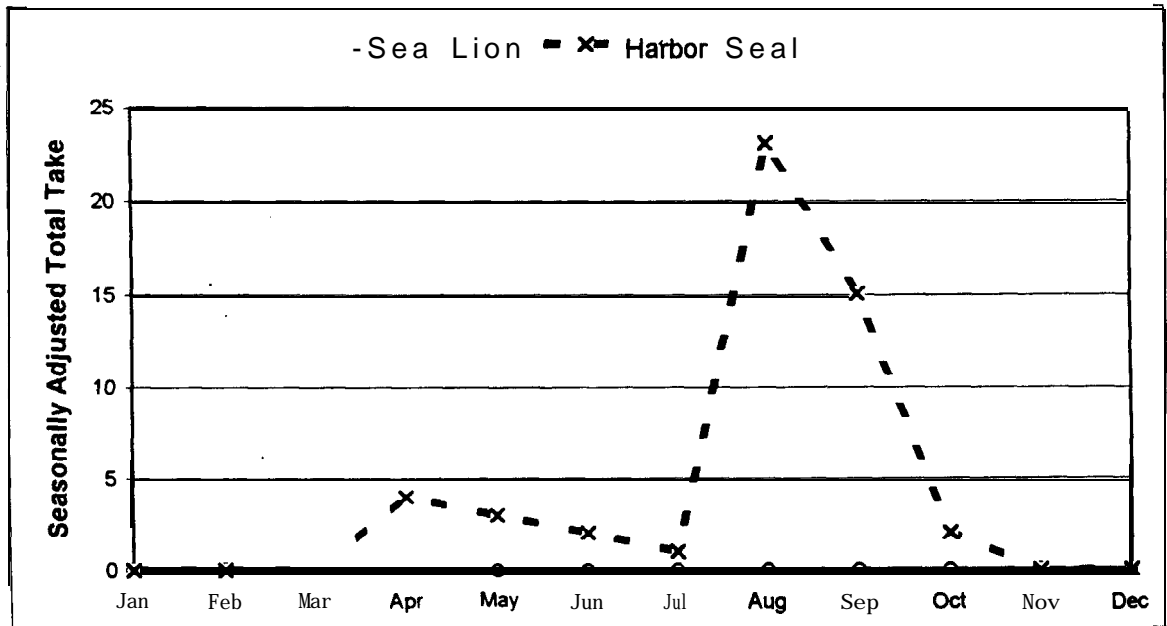
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Naknek Traditional Council, 1995

**Table 51. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Naknek, 1995**

*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	11.5%	3.0	8.6%
Adult Female	0	---	0.0	---	1	3.8%	1.0	2.9%
Adult Unknown Sex	0	---	0.0	---	18	69.2%	26.0	77.0%
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	3.8%	1.0	2.9%
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	---	2	7.7%	2.0	5.7%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	1	3.8%	1.0	2.9%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>26</b>	<b>100.0%</b>	<b>34.8</b>	<b>100.0%</b>

*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	6.3	29.7
1995	0.0	0.0	0.0	1995	34.8	15.3	so. 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 Naknek Traditional Council, 1995.

**Table 52. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Pilot Point, 1995**

*SAMPLING DESIGN:*

<i>CENSUS</i>	Total Native Households	27
	Surveyed Households	25
	Sampling Fraction	92.6%
	Sample Household Members	85
	Estimated Household Members	91.8

*HARVEST AND USE INFORMATION*

*Percentage of Native Households:*

	<i>Sea Harbor</i>	
	<u>Lion</u>	<u>Seal</u>
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):*

	<i>Sea Harbor</i>	
	<u>Lion</u>	<u>Seal</u>
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

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

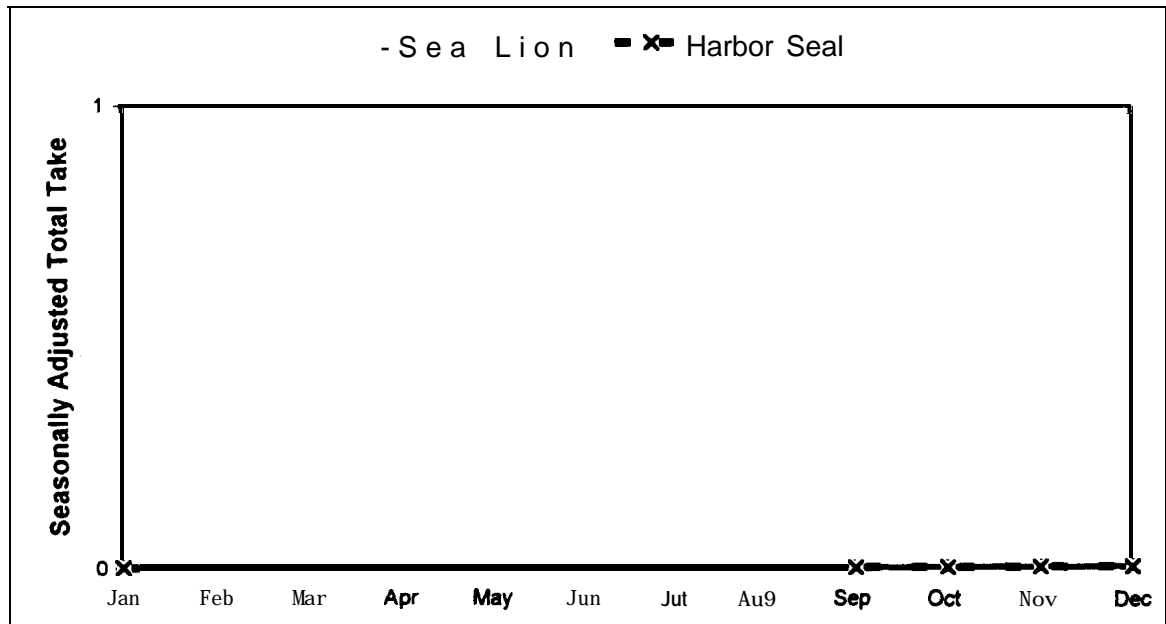
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Pilot Point Traditional Council, 1995

**Table 52. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Pilot Point, 1995**

*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	--
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>

*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/ Total		Year	Harvest	Struck/ Total	
		Lost	Take			Lost	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
<b>1995</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	1995	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 Pilot Point Traditional Council. 1995

Table 53. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Port Heiden, 1995

SAMPLING DESIGN:

CENSUS	Total Native Households	33
	Surveyed Households	33
	Sampling Fraction	100.0%
	Sample Household Members	108
	Estimated Household Members	108.0

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Harbor	
	Lion	Seal
Used	0.0%	87.9%
Hunted	0.0%	48.5%
Harvested	0.0%	33.3%
Received	0.0%	60.6%
Gave Away	0.0%	30.3%

Estimated Community Harvest and Take (Expanded):

	Sea Harbor	
	Lion	Seal
Total Number Harvested	0.0	17.0
Total Number Struck and Lost	0.0	10.0
Total Number Taken	0.0	27.0
Number Harvested Per Capita	0.00	0.16

SEA LION HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
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	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
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	0.0	0.0
Cum Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	1	4	5	1	0	2	2	2	0	0	0	1?
Struck & Lost	0	0	1	2	2	0	0	1	3	0	0	1	0	10
Total Take	0	0	2	6	7	1	0	3	5	2	0	1	0	27
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.0	4.0	5.0	1.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	17.0
Struck & Lost	0.0	0.0	1.0	2.0	2.0	0.0	0.0	1.0	3.0	0.0	0.0	1.0	0.0	10.0
Total Take	0.0	0.0	2.0	6.0	7.0	1.0	0.0	3.0	5.0	2.0	0.0	1.0	0.0	27.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.0	4.0	5.0	1.0	0.0	2.0	2.0	2.0	0.0	0.0	0.0	17.0
Struck & Lost	0.0	0.0	1.0	2.0	2.0	0.0	0.0	1.0	3.0	0.0	0.0	1.0	0.0	10.0
Total Take	0.0	0.0	2.0	6.0	7.0	1.0	0.0	3.0	5.0	2.0	0.0	1.0	0.0	27.0
Total Take (%)	0.0%	0.0%	7.4%	22.2%	25.9%	3.7%	0.0%	11.1%	18.5%	7.4%	0.0%	3.7%	0.0%	100.0%
Cum. Take	0.0	0.0	2.0	8.0	15.0	16.0	16.0	19.0	24.0	26.0	26.0	27.0	27.0	27.0
Cum. Take (%)	0.0%	0.0%	7.4%	29.6%	55.6%	59.3%	59.3%	70.4%	88.9%	96.3%	96.3%	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, with assistance from the Port Heiden Traditional Council, 1995.

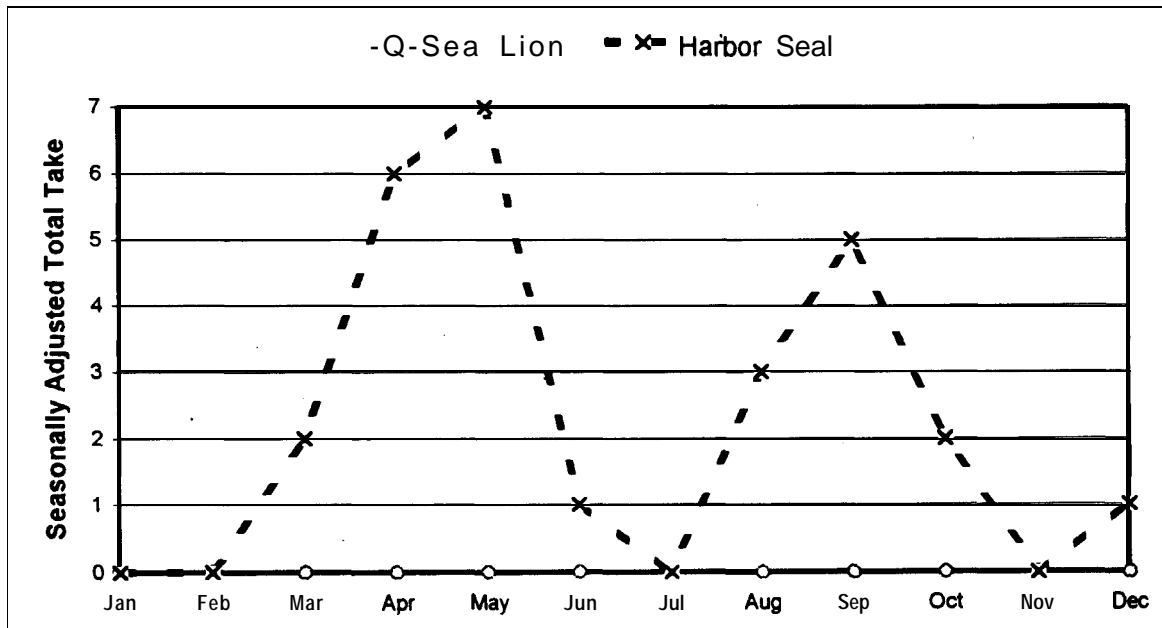


Table 53. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Heiden, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est		Reported by		Community Est	
	Sample		(Expanded)		Sample		(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	--	11	64.7%	11.0	64.7%
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	5.9%	1.0	5.9%
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	29.4%	5.0	29.4%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>17</b>	<b>100.0%</b>	<b>17.0</b>	<b>100.0%</b>

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	60.6
1994	0.0	0.0	0.0	1994	63.0	46.3	106.3
1995	0.0	0.0	0.0	1995	17.0	10.0	27.0

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, 1995.

Table 53. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: South Naknek, 1996

*SAMPLING DESIGN:*

*CENSUS*

Total Native Households	32
Surveyed Households	31
Sampling Fraction	96.9%
Sample Household Members	103
Estimated Household Members	106.3

*HARVEST AND USE INFORMATION*

*Percentage of Native Households:*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
used	0.0%	35.5%
Hunted	0.0%	22.6%
Harvested	0.0%	6.5%
Received	0.0%	32.3%
Gave Away	0.0%	65%

*Estimated Community Harvest and Take (Expanded):*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	0.0	2.1
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	2.1
Number Harvested Per Capita	0.00	0.02

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nw	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
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
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
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
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	0.0	0.0
Cum Take (%)	---	--	---	---	---	---	---	---	---	---	---	---	---	---

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	0	0	0	1	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
Total Take	0	0	0	1	0	0	0	0	0	0	0	0	1	2
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0
Total Take	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
Total Take (%)	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Cum. Take (%)	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

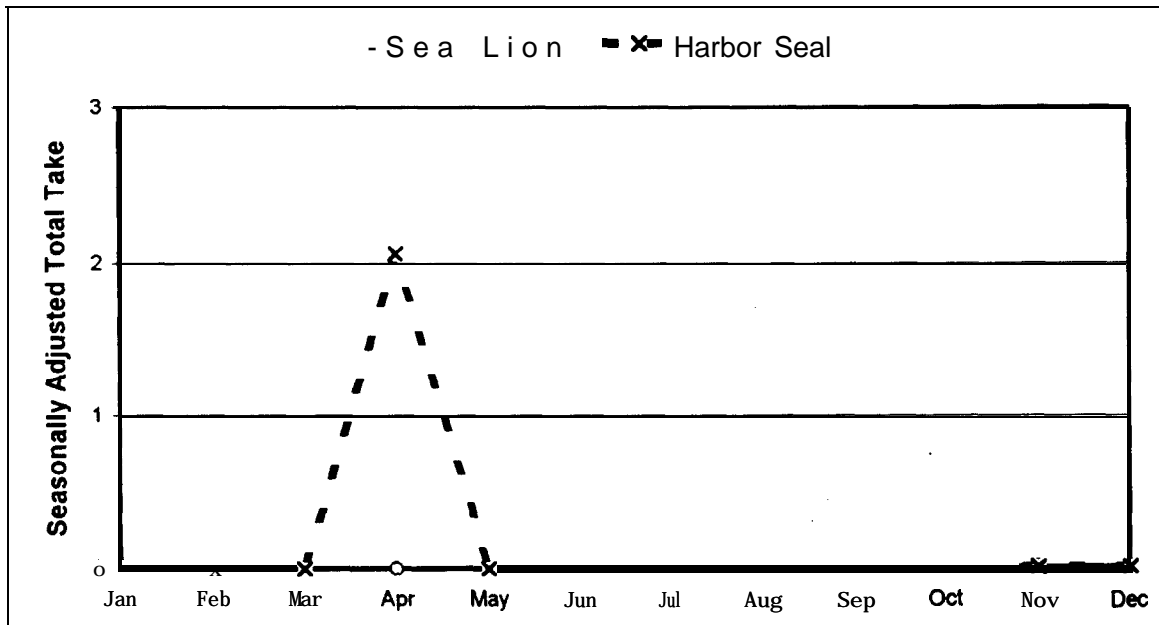
SOURCE Alaska Department of Fish and Game, Division of Subsistence. Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the South Naknek Traditional Council. 1995

Table 53. (cont.) SEA LION 8 HARBOR SEAL HARVEST ESTIMATES: South Naknek, 1995

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	50.0%	1.0	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	--	1	50.0%	1.0	50.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>2</b>	<b>100.0%</b>	<b>2.1</b>	<b>100.0%</b>

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
<b>1994</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1994</b>	<b>4.4</b>	<b>1.1</b>	<b>5.5</b>
1995	0.0	0.0	0.0	1995	2.1	0.0	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 South Naknek Traditional Council, 1995

**Table 55. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Aleknagik, 1995**

<i>SAMPLING DESIGN:</i>	<u>Total</u>
<i>CENSUS</i>	
Total Native Households	45
Surveyed Households	38
Sampling Fraction	84.4%
Sample Household Members	149
Estimated Household Members	176.4

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>			
	Sea Lion	Harbor Seal and Spotted Seal		sea Lion	Harbor Seal	spotted Seal
used	0.0%	78.9%	Total Number Harvested	0.0	0.0	11.8
Hunted	0.0%	36.8%	Total Number Struck and Lost	0.0	0.0	13.0
Harvested	0.0%	132%	Total Number Taken	0.0	0.0	24.9
Received	0.0%	73.7%				
Gave Away	0.0%	15.8%	Number Harvested Per Capita	0.00	0.00	0.07

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
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	0.0	0.0
Cum Take (%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

<b>HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH</b>														Unknown	Total
	Spotted Seal					Harbor Seal				Spotted Seal			Unknown		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>															
Harvest	0	0	0	2	5	0	0	0	0	3	0	0	0	10	
Struck & Lost	0	0	0	1	5	0	0	0	0	5	0	0	0	11	
Total Take	0	0	0	3	10	0	0	0	0	8	0	0	0	21	
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>															
Harvest	0.0	0.0	0.0	2.4	5.9	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	11.8	
Struck & Lost	0.0	0.0	0.0	1.2	5.9	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	13.0	
Total Take	0.0	0.0	0.0	3.6	11.8	0.0	0.0	0.0	0.0	9.5	0.0	0.0	0.0	24.9	
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>															
Harvest	0.0	0.0	0.0	2.4	5.9	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	11.8	
Struck & Lost	0.0	0.0	0.0	1.2	5.9	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	13.0	
Total Take	0.0	0.0	0.0	3.6	11.8	0.0	0.0	0.0	0.0	9.5	0.0	0.0	0.0	24.9	
Total Take (%)	0.0%	0.0%	0.0%	14.3%	47.6%	0.0%	0.0%	0.0%	0.0%	38.1%	0.0%	0.0%	0.0%	100.0%	
Cum. Take	0.0	0.0	0.0	3.6	15.4	15.4	15.4	15.4	15.4	24.9	24.9	24.9	24.9	24.9	
Cum. Take (%)	0.0%	0.0%	0.0%	14.3%	61.9%	61.9%	61.9%	61.9%	61.9%	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 Aleknagik Tribal Council, 1995.

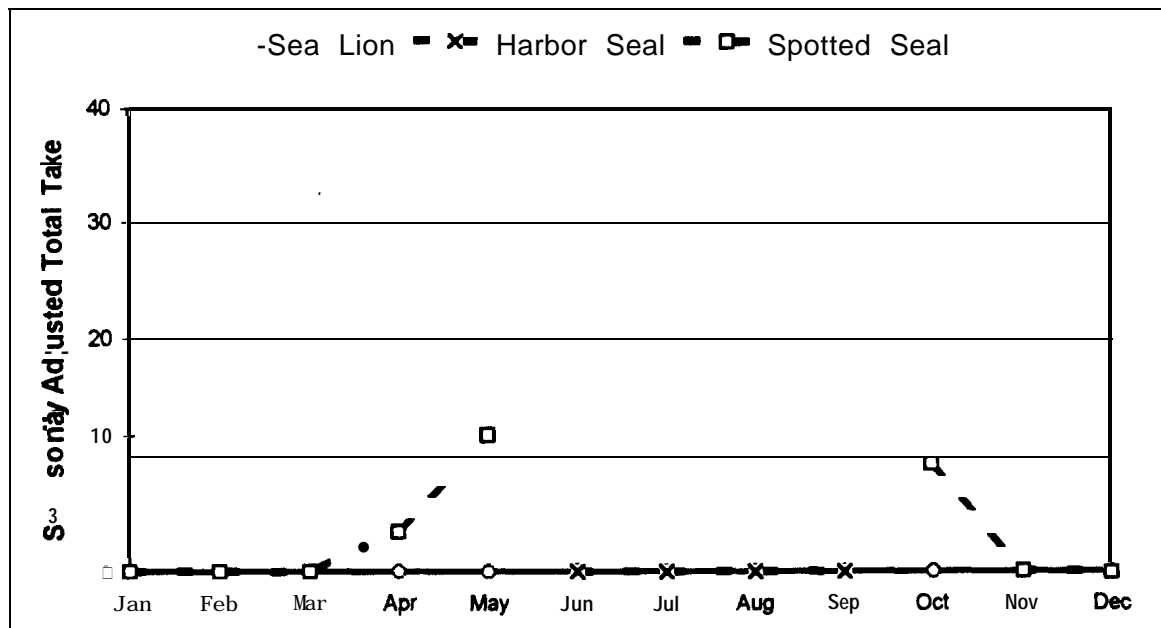
**Table 55. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Aleknagik, 1995**

*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	10.0%	1.2	10.0%
Adult Female	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---	2	20.0%	2.4	20.0%
Juvenile Male	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	---	0.0	---	1	10.0%	1.2	10.0%
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	---	6	60.0%	7.1	60.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>10</b>	<b>100.0%</b>	<b>11.8</b>	<b>100.0%</b>

. 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	26.6	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	<b>1994</b>	0.0	3.3	3.3	1994	21.5	0.0	21.5
1995	0.0	0.0	0.0	<b>1995</b>	0.0	0.0	0.0	1995	11.8	13.0	24.9

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 Aleknagik Tribal Council, 1995.

**Table 56. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Clark's Point, 1995**

SAMPLING DESIGN:		Total
CENSUS	Total Native Households	14
	Surveyed Households	14
	Sampling Fraction	100.0%
	Sample Household Members	46
	Estimated Household Members	46.0

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):			
	Sea Lion	Harbor Seal and Spotted Seal		sea Lion	Harbor Seal	spotted Seal
Used	0.0%	92.9%	Total Number Harvested	0.0	0.0	10.0
Hunted	0.0%	64.3%	Total Number Struck and Lost	0.0	0.0	5.0
Harvested	0.0%	60.0%	Total Number Taken	0.0	0.0	15.0
Received	0.0%	78.6%	Number Harvested Per Capita	0.00	0.00	0.22
Gave Away	0.0%	42.9%				

**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	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
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	0.0	0.0
Cum. Take (%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH**

	Spotted Seal					Harbor Seal					Spotted Seal			Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	1	2	0	0	0	0	0	0	0	0	0	0	10
Struck & Lost	0	0	4	1	0	0	0	0	0	0	0	0	0	0	5
Total Take	0	0	12	3	0	0	0	0	0	0	0	0	0	0	15
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
Struck & Lost	0.0	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	0.0	12.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
Struck & Lost	0.0	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	0.0	12.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0
Total Take (%)	0.0%	0.0%	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cum. Take	0.0	0.0	12.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	
Cum. Take (%)	0.0%	0.0%	80.0%	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 with assistance from the Clark's Point Traditional Council, 1995.

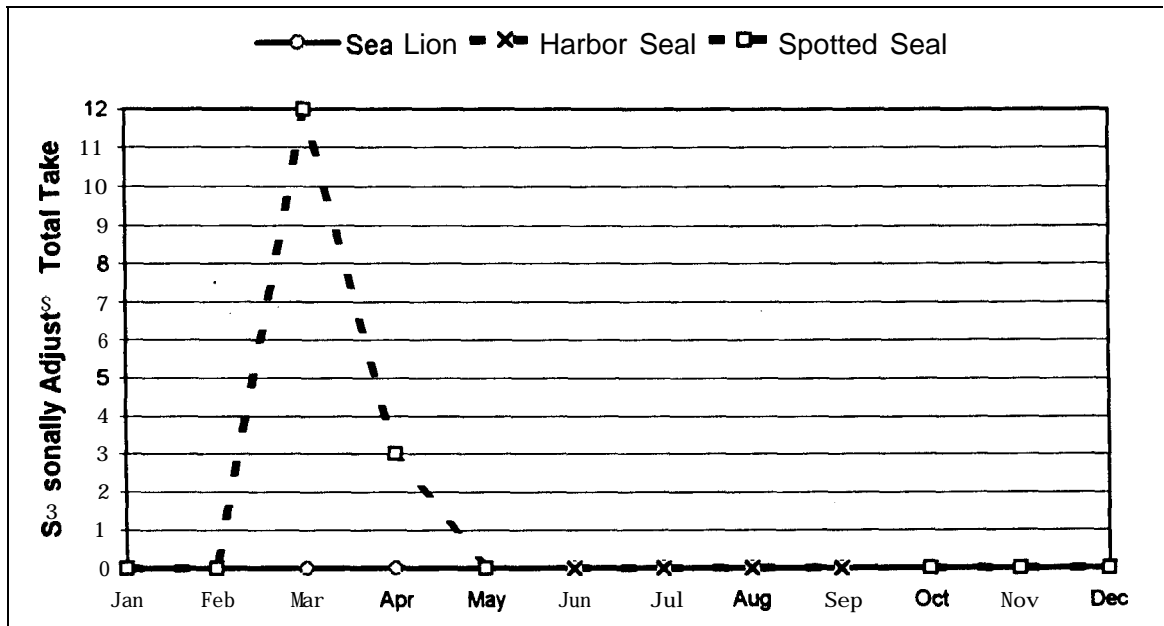
**Table 56. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Clark's Point, 199**

*HARVEST BY AGE AND SEX*

	Sea Lion				Harbor Seal				spottedSeal			
	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	---	3	30.0%	3.0	30.0%
Adult Female	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
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	---	7	70.0%	7.0	70.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>10</b>	<b>100.0%</b>	<b>10.0</b>	<b>100.0%</b>

.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/ Total		Year	Harvest	Struck/ Total		Year	Harvest	Struck/ Total	
		Lost	Take			Lost	Take			Lost	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	21.5	0.0	21.5
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0	1995	10.0	5.0	15.0

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, 199.

Table 57. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Dillingham, 1995

SAMPLING DESIGN:		Active	Other	Total
TWO-S TRATA	Total Native Households	31	412	443
	<b>Surveyed</b> Households	29	31	60
	Sampling Fraction	93.5%	7.5%	13.5%
	Sample Household Members	117	101	218
	Estimated Household Members	125.1	1342.3	1467.4

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):			
	Sea Lion	Harbor Seal and Spotted Seal		Sea Lion	Harbor Seal	spotted Seal
used	0.5%	59.6%	Total Number Harvested	0.0	13.3	7.5
Hunted	0.0%	5.7%	Total Number Struck and Lost	0.0	0.0	7.5
Harvested	0.0%	4.2%	Total Number Taken	0.0	13.3	15.0
Received	0.5%	58.6%	Number Harvested Per Capita	0.00	0.01	0.01
Gave Away	0.0%	10.4%				

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	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
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	0.0	0.0
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH														
	Spotted Seal					Harbor Seal				Spotted Seal			Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	5	2	0	0	1	0	0	0	0	0	8
Struck & Lost	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Total Take	0	0	0	12	2	0	0	1	0	0	0	0	0	15
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	5.3	2.1	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	20.8
Struck & Lost	0.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
Total Take	0.0	0.0	0.0	12.8	2.1	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	28.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	5.3	2.1	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	20.8
Struck & Lost	0.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5
Total Take	0.0	0.0	0.0	12.8	2.1	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	28.3
Total Take (%)	0.0%	0.0%	0.0%	45.4%	7.6%	0.0%	0.0%	47.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	12.8	15.0	15.0	15.0	28.3	28.3	28.3	20.3	28.3	28.3	28.3
Cum. Take (%)	0.0%	0.0%	0.0%	45.4%	53.0%	53.0%	53.0%	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 Lion and Harbor Seal in Alaska, with assistance from the Dillingham Traditional Council, 1995



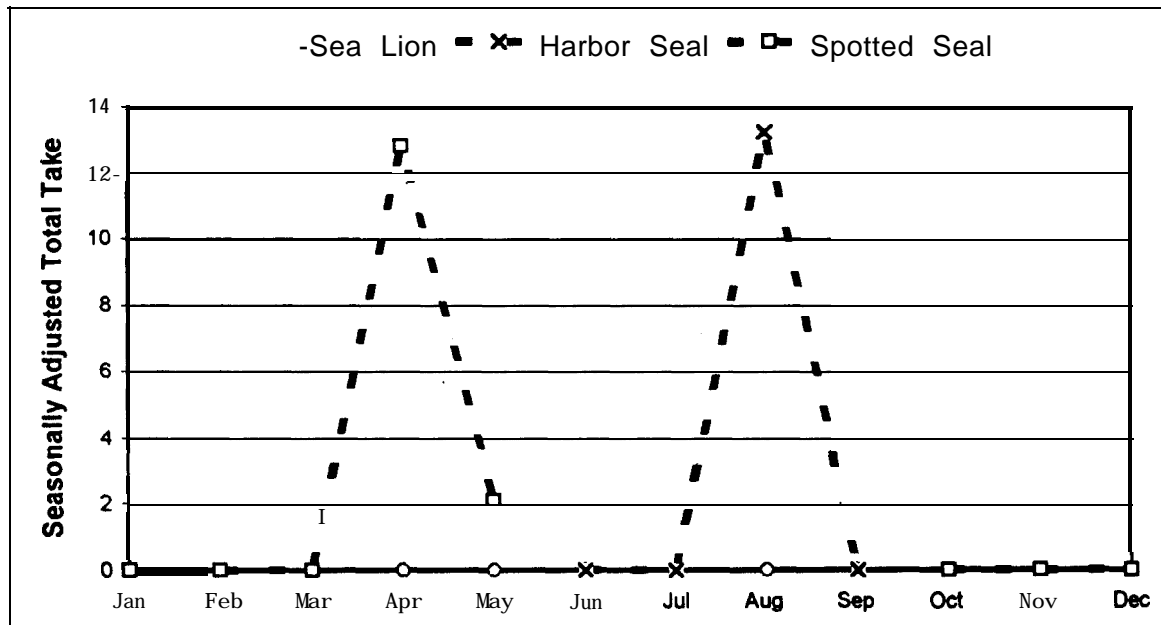
Table 57. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Dillingham, 1995

HARVEST BY AGE AND SEX

	SeaLion				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%	1	14.3%	1.1	14.3%
Adult Female	0	--	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%	2	28.6%	2.1	28.6%
Juvenile Male	0	---	0.0	---	1	100.0%	13.3	100.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%	2	28.6%	2.1	28.6%
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%	2	28.6%	2.1	28.6%
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%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>1</b>	<b>100.0%</b>	<b>13.3</b>	<b>100.0%</b>	<b>7</b>	<b>100.0%</b>	<b>7.5</b>	<b>100.0%</b>

. 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	3.0	32.9	1992	49.6	3.6	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

SOURCE: Abska 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, 1995.

Table 58. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Manokotak, 1995

SAMPLING DESIGN:		Active	Other	Total
TWO-STRATA	Total Native Households	27	40	67
	Surveyed Households	27	23	50
	Sampling Fraction	100.0%	57.5%	74.6%
	Sample Household Members	145	104	249
	Estimated Household Members	145.0	180.9	325.9

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):			
used	Sea Lion	Harbor Spotted Seal and Seal	sea Lion	Harbor Seal	spotted Seal	
Hunted	0.0%	81.1%	Total Number Harvested	0.0	9.3	22.9
Harvested	0.0%	305%	Total Number Struck and Lost	0.0	2.4	3.6
Received	0.0%	27.5%	Total Number Taken	0.0	11.7	26.5
Gave Away	0.0%	72.5%	Number Harvested Per Capita	0.00	0.03	0.07
		24.2%				

SEA LION HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
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	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
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	0.0	0.0
Cum. Take (%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH														Total
	Spotted Seal				Harbor Seal				Spotted Seal				Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	12	2	0	5	2	0	1	0	0	2	24
Struck & Lost	0	0	0	3	0	0	2	0	0	0	0	0	1	6
Total Take	0	0	0	15	2	0	7	2	0	1	0	0	3	30
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	17.2	2.7	0.0	5.7	2.7	0.0	1.0	0.0	0.0	2.7	32.1
Struck & Lost	0.0	0.0	0.0	3.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	1.0	6.0
Total Take	0.0	0.0	0.0	26.2	2.7	0.0	7.7	2.7	0.0	1.0	0.0	0.0	3.7	36.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	18.8	3.0	0.0	6.3	3.0	0.0	1.1	0.0	0.0	3.1	32.1
Struck & Lost	0.0	0.0	0.0	3.6	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	1.0	6.0
Total Take	0.0	0.0	0.0	22.4	3.0	0.0	8.7	3.0	0.0	1.1	0.0	0.0	4.1	36.1
Total Take (%)	0.0%	0.0%	0.0%	58.7%	7.9%	0.0%	22.7%	7.9%	0.0%	2.9%	0.0%	0.0%	100.0%	100.0%
Cum. Take	0.0	0.0	0.0	22.4	25.4	25.4	34.0	37.0	37.0	36.1	38.1	38.1	38.1	38.1
Cum. Take (%)	0.0%	0.0%	0.0%	58.7%	66.5%	66.5%	69.3%	97.1%	97.1%	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 Manokotak Traditional Council, 1995

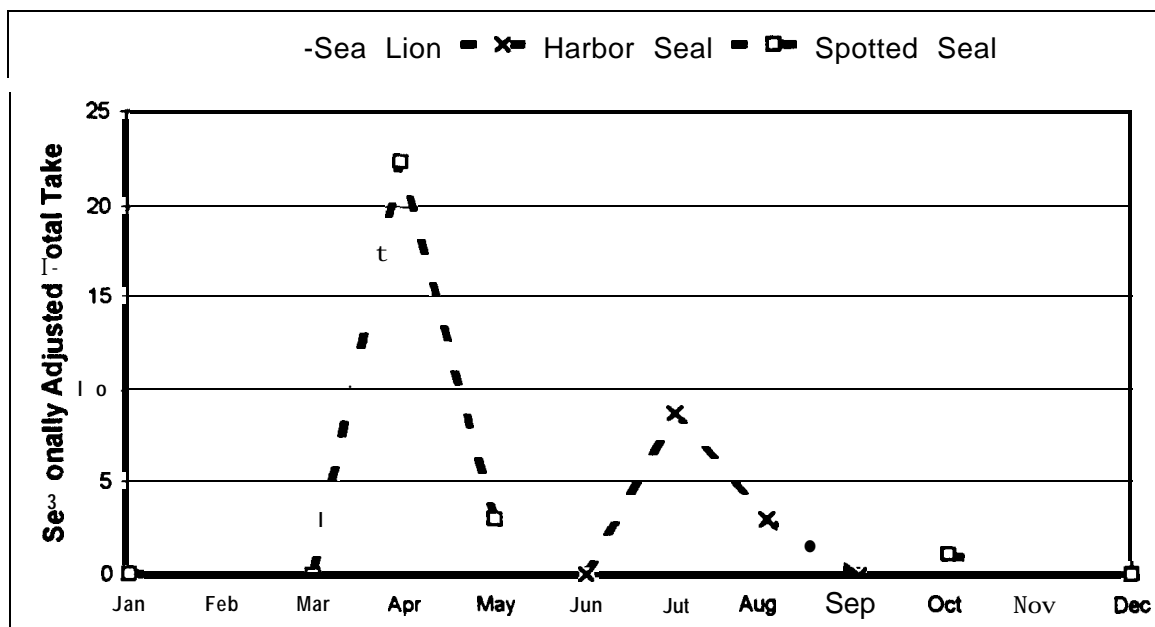
Table 58. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Manokotak, 1995

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	---	3	42.9%	4.3	44.0%	1	6.7%	1.4	6.4%
Adult Female	0	---	0.0	---	3	42.9%	3.7	30.2%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%	5	33.3%	6.5	29.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%	1	6.7%	1.7	7.8%
Juvenile Female	0	---	0.0	---	1	14.3%	1.7	17.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%	3	20.0%	4.5	20.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
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%	5	33.3%	8.2	36.8%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>7</b>	<b>100.0%</b>	<b>9.8</b>	<b>100.0%</b>	<b>15</b>	<b>100.0%</b>	<b>22.3</b>	<b>100.0%</b>

\* 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	Lost	Take	Year	Harvest	Lost	Take	Year	Harvest	Lost	Take
1992	3.9	0.0	3.9	1992	4.9	3.0	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

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, 1995.

**Table 59. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Togiak, 1995**

SAMPLING DESIGN:		Active	Other	Total
TWO-STRATA	Total Native Households	62	56	118
	Surveyed Households	56	51	107
	Sampling Fraction	90.3%	91.1%	90.7%
	Sample Household Members	249	199	448
	Estimated Household Members	275.7	218.5	494.2

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):			
used	Sea Lion	Harbor Seal and Spotted Seal		Sea Lion	Harbor Seal	Spotted Seal
Hunted	0.9%	94.4%	Total Number Harvested	0.0	3.3	111.5
Harvested	0.0%	31.8%	Total Number Struck and Lost	0.0	0.0	4.4
Received	0.0%	290%	Total Number Taken	0.0	3.3	115.9
Gave Away	0.9%	79.4%	Number Harvested Per Capita	0.00	0.01	0.23
	0.0%	29.9%				

SEA LION HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
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	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
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	0.0	0.0
Cum. Take(%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH															
	Spotted Seal					Harbor Seal					Spotted Seal			Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	3	7	19	33	9	0	0	0	3	3	11	16	0	104	
Struck & Lost	0	0	4	0	0	0	0	0	0	0	0	0	0	4	
Total Take	3	7	23	33	9	0	0	0	3	3	11	16	0	108	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	3.3	7.7	21.0	36.4	9.9	0.0	0.0	0.0	3.3	3.3	12.2	11.7	0.0	114.8	
Struck & Lost	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	
Total Take	3.3	7.7	25.4	36.4	9.9	0.0	0.0	0.0	3.3	3.3	12.2	11.7	0.0	119.2	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	3.3	7.7	21.0	36.4	9.9	0.0	0.0	0.0	3.3	3.3	12.2	11.7	0.0	114.8	
Struck & Lost	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	
Total Take	3.3	7.7	25.4	36.4	9.9	0.0	0.0	0.0	3.3	3.3	12.2	11.7	0.0	119.2	
Total Take (%)	2.8%	6.5%	21.3%	30.6%	83%	0.0%	0.0%	0.0%	2.8%	2.8%	102%	14.8%	0.0%	100.0%	
Cum. Take	3.3	11.1	36.4	72.9	82.8	82.8	628	828	86.1	89.4	101.5	119.2	0.0	119.2	
Cum. Take (%)	2.8%	9.3%	30.6%	61.1%	69.4%	69.4%	69.4%	69.4%	72.2%	75.0%	85.2%	100.0%	0.0%	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 Togiak Traditional Council, 1995

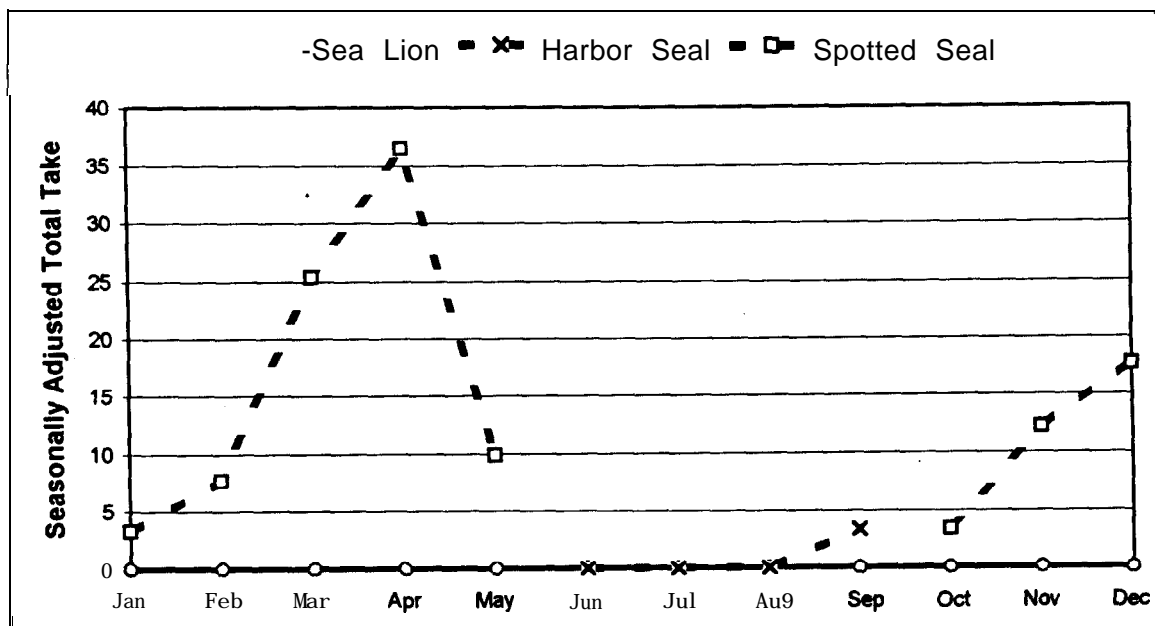
Table 59. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Togiak, 1995

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal				Spotted seal			
	Reported by		Community Est.		Reported by		Community Est.		Reported by		Community Est.	
	Sample	(Expanded)	Sample	(Expanded)	Sample	(Expanded)	Sample	(Expanded)	Sample	(Expanded)	Sample	(Expanded)
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	0	0.0%	0.0	0.0%	21	20.9%	23.2	<b>20.8%</b>
Adult Female	0	--	0.0	--	0	0.0%	0.0	0.0%	10	9.9%	11.1	9.9%
Adult Unknown Sex	0	--	0.0	--	2	66.7%	2.2	66.5%	19	18.9%	20.9	18.8%
Juvenile Male	0	--	0.0	--	1	33.3%	1.1	33.5%	11	10.9%	12.1	10.9%
Juvenile Female	0	--	0.0	--	0	0.0%	0.0	0.0%	<b>8</b>	<b>7.9%</b>	<b>8.8</b>	<b>7.9%</b>
Juvenile Unknown Sex	0	--	0.0	--	0	<b>0.0%</b>	0.0	0.0%	23	22.8%	25.4	22.8%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%	3	3.0%	3.3	3.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%	2	2.0%	2.2	2.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%	3	3.0%	3.3	3.0%
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%	1	1.0%	1.1	1.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>3</b>	<b>100.0%</b>	<b>3.3</b>	<b>100.0%</b>	<b>101</b>	<b>100.0%</b>	<b>111.5</b>	<b>100.0%</b>

\* 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	24.3	2.0	26.3	1992	250.2	53.8	<b>304.0</b>
1993	3.3	3.3	6.5	1993	24.9	15.0	40.7	1993	174.7	49.1	223.8
1994	1.2	0.0	1.2	1994	0.0	0.0	0.0	1994	154.2	39.9	194.1
1995	0.0	0.0	0.0	1995	3.3	0.0	3.3	1995	<b>111.5</b>	4.4	115.9

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 Togiak Traditional Council, 1995.

