

The Subsistence Harvest of Harbor Seals and Sea Lions by Alaska Natives in 2001

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**Final Report for Year Nine
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ABSTRACT

This report describes the subsistence takes of harbor seals (*Phoca vitulina*) and Steller sea lions (*Eumetopias jubatus*) by Alaska Natives in 2001, including quantity, seasons, geographic distribution, and age and sex of the harvest. Information is summarized at the state, region, and community levels, and is compared with annual takes since 1992. The research was conducted by the Division of Subsistence, Alaska Department of Fish and Game in cooperation with the Alaska Native Harbor Seal Commission and the Aleut Marine Mammal Commission, under contract with the National Marine Fisheries Service of the National Oceanic and Atmospheric Administration. Information derives from systematic interviews with hunters and users of marine mammals in 1,461 households in 62 coastal communities within the geographic ranges of the two species. Local researchers conducted most of the household interviews as part of regional research networks. The project received generous support from leaders of a number of Native governments and associations.

During 2001, the estimated subsistence take of harbor seals by Alaska Natives was 2,031 seals, with a 95 percent confidence range of between 1,621 to 2,647 seals. Of the take, 11.5 percent (234 seals) were struck and lost and 88.5 percent (1,797 seals) were harvested. The 2001 take of harbor seals came from the following stocks: Southeast Alaska stock (1,176 seals), Gulf of Alaska stock (772 seals), and Bering Sea stock (84 seals). Harbor seals were taken in 53 of 62 surveyed communities. Hunters reported taking males over females by about 2.4 to 1, and adults (71.6 percent) over juveniles (19.8 percent) or pups (0.2 percent). The 2001 take of harbor seals was the lowest recorded since 1992 -- 2,854 (1992), 2,736 (1993), 2,621 (1994), 2,742 (1995), 2,741 (1996), 2,546 (1997), 2,597 (1998), 2,224 (2000), and 2,031 (2001). Reasons for declining harbor seal harvests are uncertain, but appear to be associated with decreasing numbers of seal hunters.

During 2001, the estimated subsistence take of sea lions by Alaska Natives was 198 sea lions, with a 95 percent confidence range of between 162 to 282 sea lions. Of the take, 21.3 percent (42 sea lions) were struck and lost and 78.7 percent (156 sea lions) were harvested. Sea lions were taken in 19 of 62 surveyed communities. Hunters reported taking males over females by about 3 to 1, and adults (42.3 percent) and juveniles (38.7 percent) over pups (1.3 percent). Sea lion takes sharply declined from 1992 to 1995, with takes leveling off between 1996 to 2001 -- 549 (1992), 487 (1993), 416 (1994), 339 (1995), 186 (1996), 164 (1997), 178 (1998), 164 (2000), and 198 (2001). Declines in sea lion takes are associated with decreasing numbers of hunters hunting sea lions, which is probably linked to local sea lion scarcities.

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

The forty-six 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 tenth year:

Speriodon Mitchell Simeonoff, Akhiok
Antone Shelikoff, Akutan
Nina Tinker, Aleknagik
Harriet Silva, Angoon
George Eleshansky, Chenega Bay
Polly Aleck, Chignik Bay
Laura Stepanoff, Chignik Lagoon
Fred Shangin, Chignik Lake
Richard Clark, Clark's Point
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Frederick Hamilton, Craig
George Andrew, Dillingham
Virgie Alto, Egegik
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Marvin George, Klawock
Marie Squartsoff, Larsen Bay

Barbara Moore, Manokotak
Nick Tanape Sr., Nanwalek
Tilly Christiansen, Old Harbor
Kenneth Anderson, Ouzinkie
Marie Mork, Pelican
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Byron Lyons, Petersburg
Ruby Moore, Pilot Point
Patsy Pestrikoff, Port Lions
Jim Miller, Port Graham
Lydia Shade, Port Heiden
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Lila Sanders, Sand Point
Lillian Elvsaas, Seldovia
Joni Bryant, Seward
Ted Gassman, Sitka
Kelly Kompkoff, Tatitlek
Elizabeth Myas, Togiak
Jeweline Sharp, Twin Hills
Bob Storrs, Unalaska
John Boone Sr., Valdez
Sandra Churchill, Wrangell
Raymond Sensmeier, Yakutat

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INTRODUCTION

This report describes the subsistence takes of harbor seals (*Phoca vitulina*) and Steller sea lions (*Eumetopias jubatus*) by Alaska Natives during calendar year 2001. The report covers the ninth year documenting subsistence takes of harbor seals and sea lions in Alaska. Subsistence takes have been documented from 1992 through 2001, with no surveys in 1999 (Wolfe and Mishler 1993, 1994, 1995, 1996, 1997, 1998; Wolfe and Hutchinson-Scarborough 1999; Wolfe 2001). The research for calendar year 2001 was conducted by the Division of Subsistence of the Alaska Department of Fish and Game, the Alaska Native Harbor Seal Commission, and the Aleut Marine Mammal Commission, under contract with the National Marine Fisheries Service of the National Oceanic and Atmospheric Administration. The research was conducted in cooperation with tribal governments in the study communities. Also, the Aleut Community of St. Paul, Ecosystem Conservation Office, provided sea lion data from its own harvest assessment program. Discussions took place with the Alaska Sea Otter and Steller Sea Lion Commission about the project design and findings.

This report provides information on the subsistence takes of harbor seals and sea lions during 2001, including size, seasons, geographic distributions, and age and sex of harvested animals. Information on subsistence uses derives from systematic interviews with marine mammal hunters in 62 communities (Fig. 1, Table 2). Information was collected principally by local researchers trained in each community, working within a network of local and regional researchers 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 seals and sea lions in Alaska (Figs. 2 and 3, from Burns, Frost, and Lowry 1985). The use of harbor seals and sea lions by Alaska

Natives for food and raw materials has a long tradition in this part of Alaska, since before historic contact through to the present. The Alaska Native groups using harbor seals include the Aleut of the Aleutian Islands, the Alutiiq and Eyak of the Pacific Gulf coast, the Tlingit, Haida, and Tsimshian of the southeast archipelago, and the Yup'ik of southwest Alaska. More occasional use of harbor seals is made by the Dena'ina of Cook Inlet. The 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 lions. Sea lions are used more occasionally by Tlingit, Haida, Tsimshian, and Yup'ik groups. Subsistence products derived from harbor seals and sea lions by Alaska Natives include oil, meat, and skins, as described in Wolfe and Mishler (1993).

This report is organized in several sections. The Methodology section describes the methods used to collect information. Two sections (The Subsistence Take of Harbor Seals in 2001 and The Subsistence Take of Sea Lions in 2001) present information on the statewide takes of harbor seals and sea lions, summarized by community and region. In the Discussion section are interpretations of the 2001 survey year, including summaries of harvest patterns since 1992. Appendix A contains a copy of the survey instrument used in household interviews with marine mammal hunters. Appendix B contains regional summaries of the subsistence takes of harbor seals and sea lions. Appendix C contains materials on the subsistence takes of harbor seals and sea lions by community.

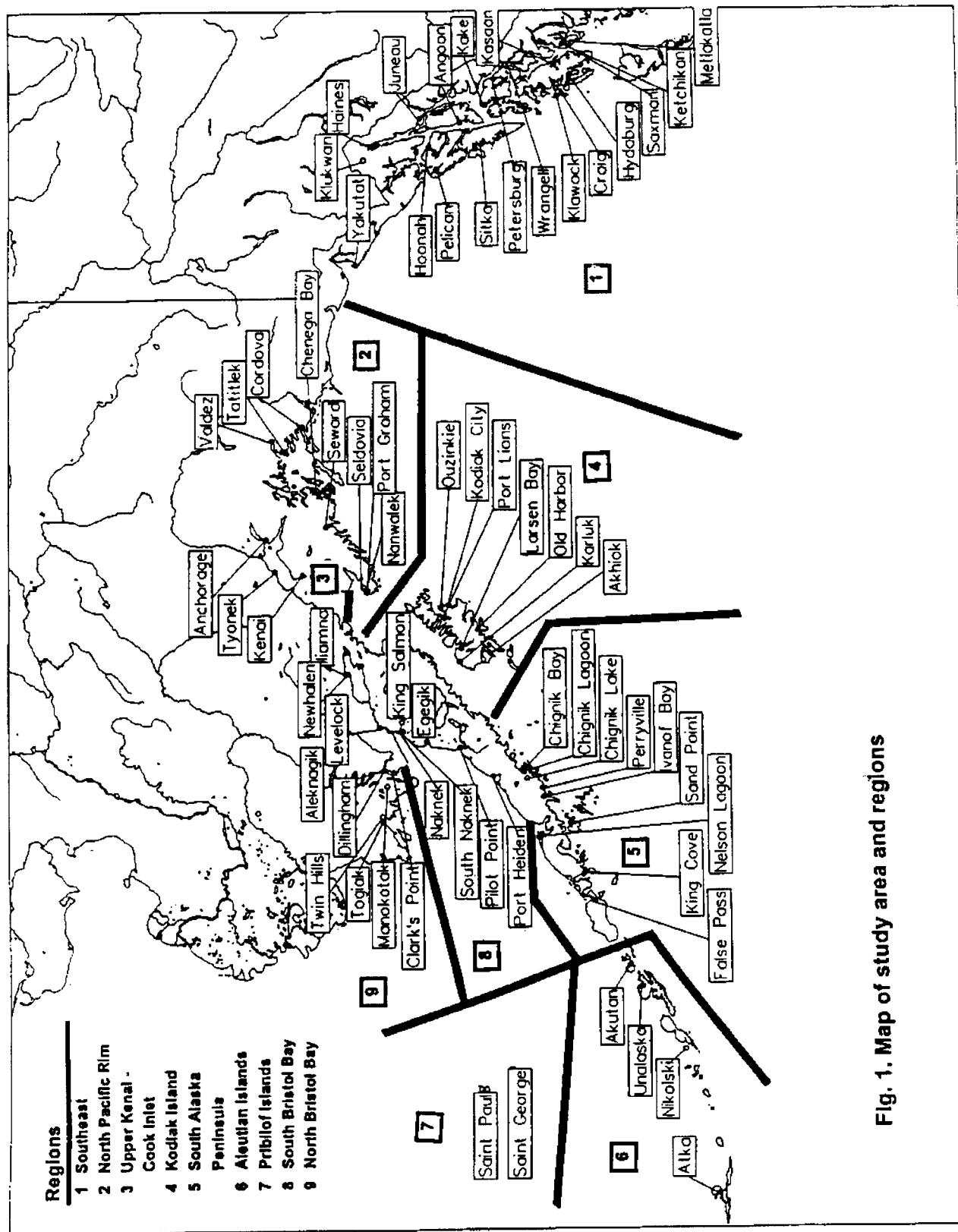


Fig. 1. Map of study area and regions

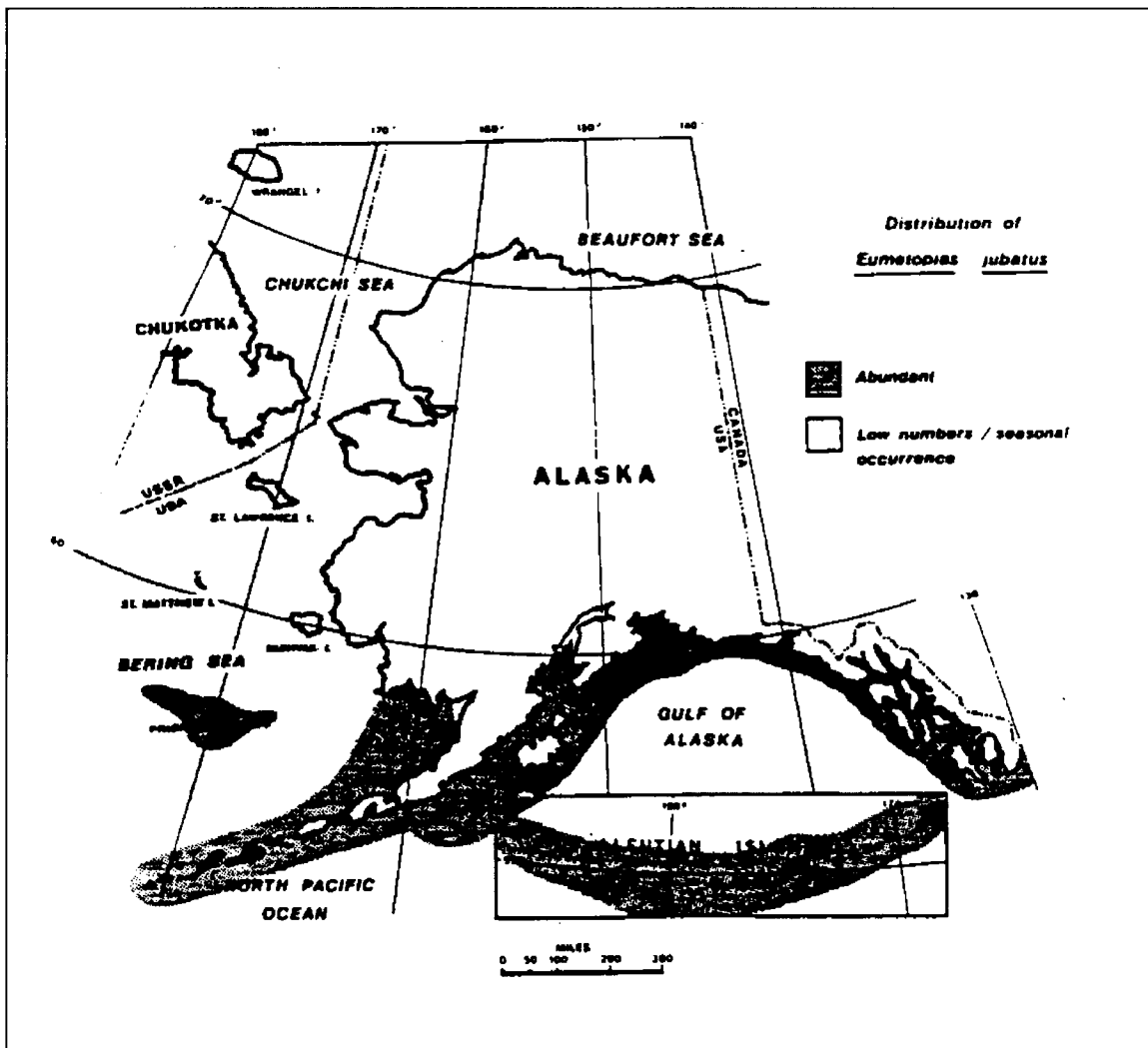


Figure 2. General Distribution of Sea Lion in Alaska (Source: Burns, Frost, and Lowery 1985)

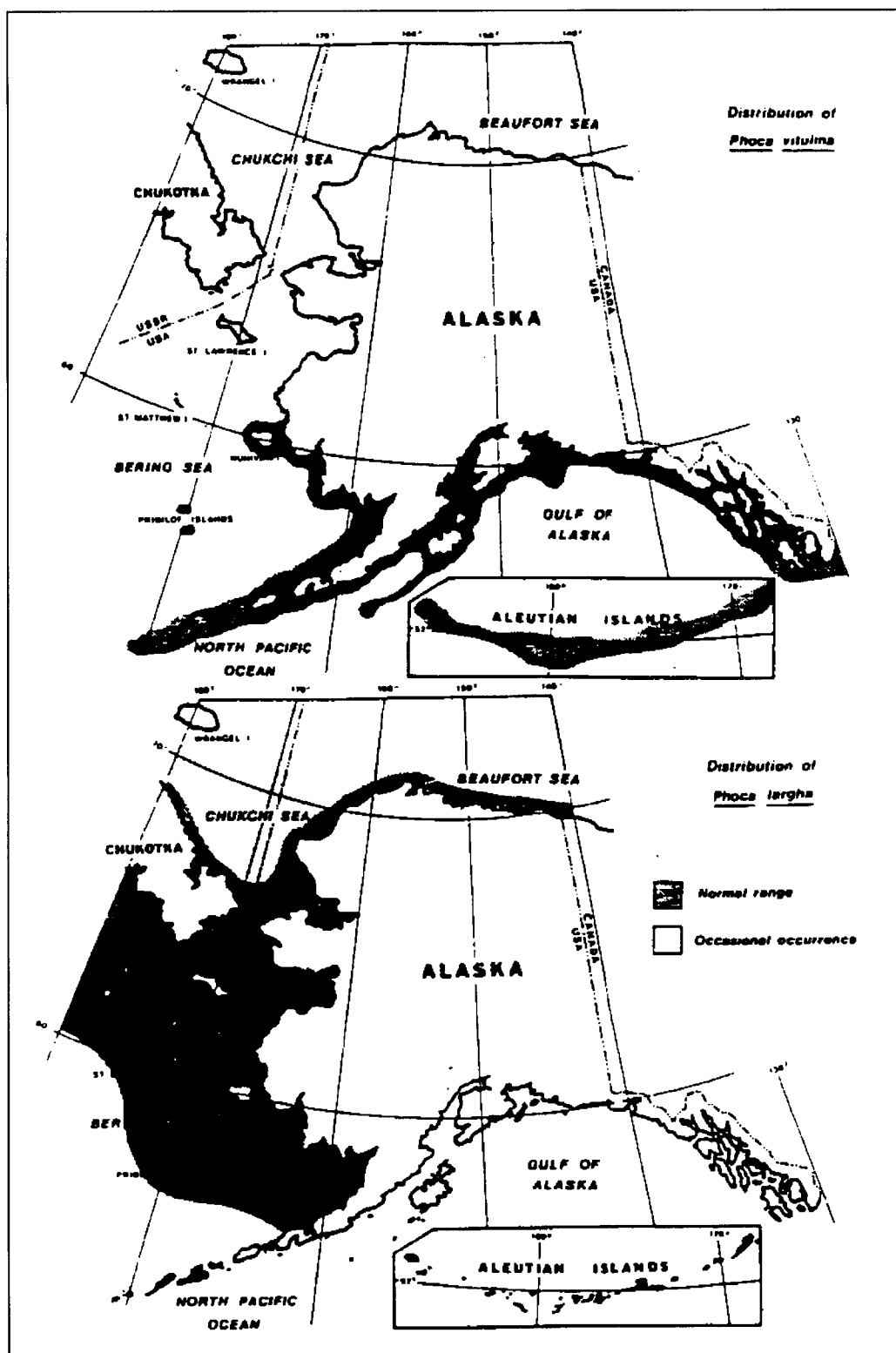


Figure 3. [Top] General distribution of harbor seal (*Phoca vitulina*) in Alaska. [Bottom] General distribution of spotted seal (*Phoca largha*) in Alaska. (Source: Burns, Frost, and Lowry 1985)

METHODOLOGY

This report includes information on the subsistence takes of harbor seals and sea lions in 62 coastal communities (Table 2). Information for 61 communities was collected in this project through interviews with persons in 1,461 Alaska Native households. In addition, the report includes information about subsistence takes of sea lions in 2000 and 2001 by hunters in St. Paul collected through a separate project run by the Ecosystem Conservation Office of the Aleut Community of St. Paul (Lestenkof and Zavadil 2001; Lestenkof et al. 2002). In the Division of Subsistence study, 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 1992-2000, first developed in consultation with the Rural Alaska Community Action Program (RurAL CAP) and the Indigenous People's Council for Marine Mammals (IPCoMM) (see Appendix A). Hunters and household heads were asked to recall the numbers of harbor seals and sea lions taken by household members during each month over the past year. The survey contained questions that pertained to harvest numbers, struck and lost animals, age of animals, and sex of animals. The survey also asked whether the household used, harvested, received, or gave away harbor seals or sea lions during the last year. Interviews were conducted by local researchers hired and trained as part of the project, augmented by regional Division of Subsistence researchers in select communities. A single survey was administered in January 2002 to cover the period from January through December 2001.

The project was designed to be a collaborative effort with Alaska Native hunters and organizations. During the first year of the study, a number of Native governments, Native leaders, and associations with interests in harbor seals and sea lions management were contacted to obtain suggestions about project design, including the Alaska Federation of Natives, the Aleutians East Borough, Aleutian-Pribilof Islands

Association, Bristol Bay Native Association, Central Council of Tlingit and Haida Indian Tribes of Alaska, Cook Inlet Region, Inc., IPCoMM (meeting through RurAL CAP), Kodiak Area Native Association, and the North Pacific Rim (Chugachmiut). RurAL CAP and IPCoMM served as the formal technical oversight organizations for the first five years of the project, through a subcontract with the Division of Subsistence. Since 1997, formal technical oversight for the project has been provided by the Alaska Native Harbor Seal Commission (ANHSC) through a subcontract.

During this recent survey cycle, a goal was to develop capacity in ANHSC for assuming responsibilities for additional project components. Under the cooperative agreement, ANHSC provided a coordinator-in-training, an analyst for writing the final report, and local research assistants in the North Pacific Rim communities. ANHSC project coordinators included Una Swain and Rex Snyder. The coordinator accompanied Ron Stanek, the Division of Subsistence's project coordinator, to several communities for training in survey methods. The coordinators assisted in obtaining community approvals for the research and community review of the study findings. The ANHSC also discussed the project and reviewed study findings at its semi-annual meetings.

The survey in the Aleutian Islands region was conducted with a cooperative agreement between the Aleut Marine Mammal Commission (AMMC) and the Division of Subsistence. The AMMC represents ten Alaska Native tribes in nine communities of the lower Alaska Peninsula and Aleutian Islands. The AMMC assisted with re-introducing the project in its member communities, helped identify local research assistants, and reviewed the survey instrument and draft study findings. At Atka, AMMC executive director Peggy Osterback accompanied Brian Davis of the Division of Subsistence for interviews and consultations with hunters and other community members.

As noted above, at St. Paul, sea lion take information was collected by the Aleut Community of St. Paul's Ecosystem Conservation Office through a contract between the tribe and the National Marine Fisheries Service. The methodology and findings of the

Table 1.
Community Organizations Contacted During the Project

Community	Government/Organization	Community	Government/Organization
Akhiok	Akhiok Tribal Council City of Akhiok	Manokotak	Manokotak Traditional Council
Akutan	Akutan Traditional Village Council City of Akutan Akutan Corporation	Metlakatla	Council Annette Islands Reserve Metlakatla Indian Community
Aleknagik	Aleknagik Tribal Council	Naknek	Naknek Traditional Council
Anchorage	Cook Inlet Tribal Council Alaska Federation of Natives	Nanwalek	Nanwalek Traditional Council English Bay Corporation
Angoon	City of Angoon	Nelson Lagoon	Nelson Lagoon Village Council
Atka	Atka IRA Council City of Atka	Newhalen	Newhalen Traditional Council
Chenega Bay	Chenega Bay IRA Council	Nikolski	Nikolski IRA Council Chaluka Corporation
Chignik Bay	Chignik Bay Traditional Village Council	Old Harbor	Old Harbor Tribal Council City of Old Harbor
Chignik Lagoon	Chignik Lagoon Traditional Village Council	Ouzinkie	Ouzinkie Native Corporation Ouzinkie Tribal Council City of Ouzinkie
Chignik Lake	Chignik Lake Traditional Village Council	Pelican	Tlingit and Haida Indians of Pelican Pelican Community Council City of Pelican
Clark's Point	Clark's Point Traditional Council	Perryville	Perryville Traditional Village Council
Cordova	Traditional Village of Eyak	Petersburg	Petersburg Indian Association
Craig	Shaan-Seet, Inc. City of Craig	Pilot Point	Pilot Point Traditional Council
Dillingham	Dillingham Traditional Council	Port Graham	Port Graham Village Council Port Graham Corporation
Egegik	Egegik Traditional Council	Port Heiden	Port Heiden Traditional Council
False Pass	False Pas Tribal Council City of False Pass	Port Lions	Port Lions Tribal Council City of Port Lions
Haines	Chilkoot Indian Association	Saint George	Saint George Traditional IRA Council Saint George Tanaq Corporation City of Saint George
Hoonah	Hoonah Traditional Council	Saint Paul	Tribal Government of Saint Paul City of Saint Paul
Hydaburg	Haida Corporation City of Hydaburg	Sand Point	Unga Tribal Council Qagan Tayagugin Tribe of Sand Point City of Sand Point
Iliamna	Iliamna Village Council	Saxman	Saxman IRA Council City of Saxman
Ivanof Bay	Ivanof Bay Traditional Village Council	Seldovia	Seldovia Native Association
Juneau	Tlingit and Haida Central Council Sealaska Auke Tribe Council Alaska Native Brotherhood/Sisterhood	Seward	Qutekcak Native Tribe
Kake	Organized Village of Kake City of Kake	Sitka	Sitka Tribal Council Alaska Native Brotherhood
Karluk	Karluk IRA Council	South Naknek	South Naknek Traditional Council
Kenai	Kenaitze Indian Tribe IRA Cook Inlet Region, Inc.	Tatitlek	Tatitlek IRA Council
Ketchikan	Ketchikan Indian Tribe IRA Ketchikan Indian Association	Togiak	Togiak Traditional Council
King Cove	Agdaagux Tribe of King Cove Belkofsky Village Council City of King Cove	Twin Hills	Twin Hills Village
King Salmon	King Salmon Traditional Council	Tyonek	Native Village of Tyonek
Klawock	Klawock Cooperative Association Klawock Heenya Corporation	Unalaska	Quawalangin Tribal Council
Klukwan	Chilkat Indian Village	Valdez	Valdez Native Association
Kodiak City	Kodiak Tribal Council Kodiak Area Native Association	Wrangell	Wrangell Cooperative Association
Larsen Bay	Larsen Bay Tribal Council City of Larsen Bay	Yakutat	Yakutat Native Association Yak-Tat Kwaan Alaska Native Brotherhood/ Alaska Native Sisterhood
Levelock	Levelock Traditional Council		

tribal project are described in Lestenkof, Zavadil, and Williams (2002). Our report incorporates the information collected by the tribal program, as presented in Lestenkof and Zavadil (2001) and Lestenkof, Zavadil, and Williams (2002).

In October 2001, the Division of Subsistence staff attended a meeting of the Alaska Sea Otter and Steller Sea Lion Commission (TASSC) to report on project goals and prior research findings. Preliminary results of the research were discussed with TASSC staff. In March 2002, James Fall, principal project director, gave a presentation on the project and past findings at the *Steller Sea Lion Principal Investigators Orientation and Coordination Meeting*, sponsored by the Alaska Fisheries Science Center of the National Marine Fisheries Service.

Following standard procedures of the Division of Subsistence (Fall 1990), support for the project was solicited from local Native governments or leaders of local government entities, for each community where surveys were conducted. During the first project year, contacts were made with representatives of all the entities listed in Table 1, and the project received support in the communities listed in Table 2. Many local governments have been extremely helpful during the course of the project, especially by identifying Native households, potential local researchers, and marine mammal experts in the community to contact.

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

Table 2
Sampling Methodology By Community
Harbor Seal and Sea Lion Surveys, 2001

<u>Region and Community</u>	<u>Estimated Native Population</u>	<u>Type of Design</u>	<u>Identified Household Universe¹</u>	<u>Surveyed Households</u>	<u>Percentage Households Surveyed</u>
1. SOUTHEAST					
Angoon	494	Chain Referral	43	41	95.3%
Craig	432	Chain Referral	25	25	100.0%
Haines	335	Chain Referral	17	15	88.2%
Hoonah	597	Chain Referral	64	58	90.6%
* Hydaburg	342	Chain Referral	16	10	62.5%
Juneau	5,084	Chain Referral	52	33	63.5%
Take	530	Chain Referral	52	34	65.4%
Ketchikan	1,802	Chain Referral	15	13	86.7%
Klawock	496	Chain Referral	32	30	93.8%
Klukwan	123	Chain Referral	8	3	37.5%
Pelican	42	Chain Referral	14	14	100.0%
Petersburg	388	Chain Referral	30	30	100.0%
Saxman	302	Chain Referral	20	17	85.0%
Sitka	2,178	Chain Referral	83	43	51.8%
Wrangell	550	Chain Referral	9	9	100.0%
Yakutat	375	Chain Referral	49	42	85.7%
Region Total	14,070		529	417	78.8%
2. NORTH PACIFIC RIM					
Chenega Bay	67	Census	13	11	84.6%
Cordova	368	Chain Referral	14	12	85.7%
Nanwalek	165	Census	51	41	80.4%
Port Graham	151	Census	58	28	48.3%
Seldovia	66	Chain Referral	10	10	100.0%
Seward	592	Two Strata	50	32	64.0%
Tatitlek	91	Census	30	19	63.3%
Valdez	410	Chain Referral	1	1	100.0%
Region Total	1,910		227	154	67.8%
3. UPPER KENAI-COOK INLET					
Anchorage	26,995	Chain Referral	32	24	75.0%
Homer	371	Chain Referral	21	21	100.0%
Kenai	2120	Chain Referral	32	18	56.3%
Tyonek	184	Chain Referral	6	4	66.7%
Region Total	29,670		91	67	73.6%
4. KODIAK ISLAND					
Akhiok	75	Census	13	9	69.2%
Karluk	26	Census	13	11	84.6%
Kodiak City	829	Chain Referral	15	12	80.0%
Larsen Bay	91	Census	26	23	88.5%
Old Harbor	203	Census	68	62	91.2%
Ouzinkie	197	Chain Referral	18	14	77.8%
Port Lions	163	Chain Referral	11	10	90.9%
Region Total	1,584		164	141	86.0%

* Numbers for Hydaburg are based on 1998 survey sampling.

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

Table 2 (Continued)
Sampling Methodology by Community,
Harbor Seal and Sea Lion Surveys, 2001

<u>Region and Community</u>	<u>Estimated Native Population</u>	<u>Type of Design</u>	<u>Identified Household Universe</u>	<u>Surveyed Households</u>	<u>Percentage Households Surveyed</u>
5. SOUTH ALASKA PENINSULA					
Chignik Bay	48	Census	14	12	85.7%
Chignik Lagoon	85	Census	23	21	91.3%
Chignik Lake	127	Census	26	20	76.9%
False Pass	42	Census	16	13	81.3%
Ivanof Bay	21	Census	7	5	71.4%
King Cove	379	Two Strata	29	21	72.4%
Perryville	105	Census	32	28	87.5%
Sand Point	421	Chain Referral	14	9	64.3%
Region Total	1,228		161	129	80.1%
6. ALEUTIAN ISLANDS					
Akutan	117	Census	30	22	73.3%
Atka	84	Census	30	18	60.0%
Nikolski	27	Census	12	9	75.0%
Unalaska	397	Two Strata	78	59	75.6%
Region Total	625		150	108	72.0%
7. PRIBILOF ISLANDS					
St. George	140	Two Strata	45	10	22.2%
* St. Paul	460	--	N/A	N/A	N/A
Region Total	600		45	10	22.2%
8. SOUTH BRISTOL BAY					
Egegik	89	Census	25	24	96.0%
King Salmon	133	Census	28	23	82.1%
Levelock	116	Census	19	13	68.4%
Naknek	319	Two Strata	48	36	75.0%
Pilot Point	86	Census	15	15	100.0%
Port Heiden	93	Census	28	25	89.3%
South Naknek	115	Census	30	30	100.0%
Region Total	951		193	166	86.0%
9. NORTH BRISTOL BAY					
Aleknagik	187	Census	44	38	86.4%
Clark's Point	69	Census	23	22	95.7%
Dillingham	1,503	Two Strata	437	60	13.7%
Manokotak	378	Two Strata	76	59	77.6%
Togiak	750	Chain Referral	84	75	89.3%
Twin Hills	65	Census	19	15	78.9%
Region Total	2,952		683	269	39.4%
TOTAL	53,590		2,243	1,461	65.1%
(Excl. Anchorage)	(26,595)		(2,211)	(1,437)	(65.0%)

* St. Paul data collected by the Ecosystem Conservation Office, Aleut Community of St. Paul

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2002.

Table 3
Sampling Methodology for Communities
With Two Strata Designs,
Harbor Seal and Sea Lion Surveys, 2001

<u>Community</u>	<u>Number High Stratum Households</u>	<u>Sampled High Stratum Households</u>	<u>Percent High Stratum</u>	<u>Number Low Stratum Households</u>	<u>Sampled Low Stratum Households</u>	<u>Percent Low Stratum</u>
Dillingham	23	19	82.6%	414	41	9.9%
King Cove	14	14	100.0%	15	7	46.7%
Manokotak	33	28	84.8%	43	31	72.1%
Naknek	14	13	92.9%	34	23	67.6%
Seward	9	5	55.6%	41	27	65.9%
St. George	4	4	100.0%	41	6	14.6%
Unalaska	21	20	95.2%	57	39	68.4%
Total	118	103	87.3%	645	174	27.0%

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2002.

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 of locally-hired researchers and regional Division of Subsistence researchers was used to collect information on subsistence takes of sea lions and harbor seals during 2001. In 49 of the 61 communities selected for surveys, a local resident was hired as a local researcher. 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, e-mail, fax, and the mail. Local researchers performed tasks such as updating community lists of households and hunters, implementing household sampling regimes, administering household surveys during the yearly cycle, data proofing of surveys and survey tracking forms, and mailing surveys and tracking sheets for data entry and analysis. Regional researchers performed tasks such as obtaining formal support for the project from Native

organizations, recruiting and selecting local hires, developing household sampling regimes, training and supervising local researchers, proofing survey data, consulting local researchers to resolve data questions in preparation for data entry and analysis, writing reports on each community's survey experience, and entering field notes into a centralized database.

In 2001, 45 local researchers collected information in 49 communities. Ten communities (Anchorage, Atka, Clark's Point, Homer, Kenai, Kodiak City, Juneau, Levelock, Nikolski, and Tyonek) were surveyed by regional researchers with the Division of Subsistence. As stated above, information at St. Paul was collected by the St. Paul tribe (Lestenkof, Zavadil, and Williams 2002). New harvest information was not collected in two communities (Hydaburg and False Pass) because local surveyors could not be secured and funding constraints did not allow for additional work by regional researchers. In this report, data from the most recent survey cycle were used as estimates of the takes in 2001 for the two unsurveyed places.

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, 80.0 percent of identified households (1,184 of 1,480 households) were successfully contacted and interviewed. For communities with two-strata designs, 87.3 percent of high stratum households were successfully contacted and interviewed (103 of 118 households), while a 27.0 percent random sample of low stratum households were interviewed (174 of 645 households) (Tables 2 and 3). These are relatively 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 due in large part to logistical problems in contacting households, rather than refusals to participate.

Data analysis was performed by Cheryl Scott of Alaska Connections, under contract with the Division of Subsistence. In the appendices, the statistical analysis presents harvest data in three different tables for each community. In the first table, the unexpanded reported take is presented for each community, representing actual animals reported killed by surveyed hunters with no fractions of animals. The second table presents the combined estimated expanded take for each stratum in the community. In this table, takes of surveyed hunters are expanded to unsurveyed hunters within the stratum, using different methods depending upon the household sampling design as described above. In this expansion, the proportions of the seasonal takes of the surveyed households are preserved, so takes with unknown months exist in the table. The expansion treats each community as a separate sampling universe. Fractions of animals commonly result from the expansion, which are rounded to the nearest tenth. The third table presents a seasonally-adjusted expanded take: takes with unknown months are assigned to months based on the proportion of the known take. The numbers in this third table form the basis for the numbers in the report's narrative. In addition, details of the expansion for two strata communities are shown for harbor seal takes in Table 25 and for sea lion takes in Table 26.

The calculation of the confidence range around the estimate follow methods for stratified samples in Cochran (1977:5.13, 5.15). In this process, the unexpanded, reported take 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 kills (not hypothetical kills).

THE SUBSISTENCE TAKE OF HARBOR SEALS IN 2001

Estimated Size of the Harbor Seals Take, 2001

The estimated size of the total take of harbor seals (*Phoca vitulina*) by Alaska Natives in 2001 is presented in Tables 4 and 5. In 2001, there were an estimated 2,031 harbor seals taken by Alaska Natives for subsistence uses (with a 95 percent confidence range of between 1,621 to 2,647 animals) (Table 4). Of the 2001 subsistence take, 11.5 percent (234 harbor seals) were struck and lost, and 88.5 percent (1,797 harbor seals) were harvested.

The total state estimate for harbor seals is necessarily somewhat indeterminate because of species identification problems in the Bristol Bay area. As discussed in Wolfe and Mishler (1993:61-69), in Bristol Bay there are areas with a seasonal geographic overlap of harbor seals (*Phoca vitulina*) and spotted seals (*Phoca largha*) (see Fig. 3). Local indigenous Yup'ik taxonomies categorize adults of the two Linnaean species as a single type (*issuriq*) in this area, and categorize pups into two different types. Of the total North Bristol Bay take, we classified 10 seals as *Phoca vitulina* and 127 seals as *Phoca largha*, based on ecological features of the kill (degree of association with seasonal ice) (Appendix B, Table 9). Of the animals classified as *Phoca largha*, 16.4 percent (21 animals) were reported struck and lost, and 83.6 percent (106 animals) were harvested (Appendix B, Table 9). In Table 4, we also assumed the entire South Bristol Bay take of 73 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 2001 is 2,031 harbor seals, based on the assumptions above.

Table 4
Estimated Subsistence Takes of
Harbor Seal (*Phoca vitulina*)
By Alaska Natives, 1992 - 2001

<u>Year</u>	<u>Estimated Total</u>			<u>Lower and Upper Confidence Range for Total Take</u>
	<u>Harvest</u>	<u>Struck and Lost</u>	<u>Total Take</u>	
1992	2,501 87.6%	353 12.4%	2,854 100.0%	2,293 - 3,692
1993	2,365 86.4%	371 13.6%	2,736 100.0%	2,334 - 3,471
1994	2,313 88.2%	308 11.8%	2,621 100.0%	2,110 - 3,457
1995	2,498 91.1%	243 8.9%	2,742 100.0%	2,184 - 3,679
1996	2,415 88.1%	327 11.9%	2,741 100.0%	2,378 - 3,479
1997	2,195 86.2%	351 13.8%	2,546 100.0%	2,069 - 3,309
1998	2,286 88.1%	310 11.9%	2,597 100.0%	2,235 - 3,212
2000	1,975 88.8%	250 11.2%	2,224 100.0%	1,727 - 3,007
2001	1,797 88.5%	234 11.5%	2,031 100.0%	1,621 - 2,647

*Source: Alaska Department of Fish and Game, Division of Subsistence,
Households Surveys 2002*

Table 5
Regional Distribution of Subsistence Takes of
Harbor Seal (*Phoca vitulina*) by Alaska Natives, 2001
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	1,019.9	155.9	1,175.7	24.1%	940.8	1,459.3	57.9%	0.07	13.3%
North Pacific Rim	279.9	20.1	300.0	42.7%	225.0	428.1	14.8%	0.15	6.7%
Upper Kenai-Cook Inlet	91.2	2.7	93.9	58.1%	71.0	148.4	4.6%	0.00	2.8%
Kodiak Island	155.6	4.8	160.4	26.2%	137.6	202.3	7.9%	0.10	3.0%
South Alaska Peninsula	68.7	16.3	85.1	30.0%	73.0	110.6	4.2%	0.06	19.2%
Aleutian Islands	120.1	12.5	132.6	43.6%	97.0	190.4	6.5%	0.19	9.5%
Pribilof Islands	0.0	1.0	1.0	0.0%	1.0	1.0	0.0%	0.00	100.0%
South Bristol Bay	52.9	19.8	72.7	27.3%	67.0	92.6	3.6%	0.06	27.2%
North Bristol Bay	8.8	1.2	10.0	45.9%	8.7	14.6	0.5%	0.00	11.6%
ALASKA	1,797.1	234.3	2,031.4	30.3%	1,621.2	2,647.4	100.0%		
Percentage of Take	88.5%	11.5%	100.0%						

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2002.

Table 6
Subsistence Harbor Seal Harvest, Take, and Use by Alaska Natives, 2001
With Confidence Intervals and Statistical Ranges, by Community

	Harbor Seal Harvest Per Capita	Native Households Harvesting Harbor Seal	Native Households Using Harbor Seal	Harvest	Struck and Lost	Take	Confidence Interval (+/- %)	Lower Range Estimate	Upper Range Estimate
SOUTHEAST ALASKA									
Angoon	.17	--	--	85.0	5.2	90.2	15.3%	86.0	104.0
Craig	.13	--	--	54.0	4.0	58.0	0.0%	58.0	58.0
Haines	.06	--	--	19.3	1.1	20.4	28.5%	18.0	26.2
Hoonah	.24	--	--	143.4	13.2	156.7	15.3%	142.0	180.7
Hydaburg	.04	--	--	14.4	0.0	14.4	54.3%	9.0	22.2
Juneau	.01	--	--	29.9	1.6	31.5	52.4%	20.0	48.0
Kake	.16	--	--	85.6	10.7	96.4	28.6%	68.8	123.9
Ketchikan	.01	--	--	12.7	0.0	12.7	64.8%	11.0	20.9
Klawock	.14	--	--	71.5	0.0	71.5	8.7%	67.0	77.7
Klukwan	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Pelican	.21	--	--	9.0	0.0	9.0	0.0%	9.0	9.0
Petersburg	.04	--	--	16.0	22.0	38.0	0.0%	38.0	38.0
Saxman	.04	--	--	12.9	0.0	12.9	68.9%	11.0	21.9
Sitka	.11	--	--	241.3	32.8	274.1	46.0%	148.0	400.2
Wrangell	.03	--	--	16.0	29.0	45.0	0.0%	45.0	45.0
Yakutat	.56	--	--	208.8	36.2	245.0	15.8%	210.0	283.7
NORTH PACIFIC RIM									
Chenega Bay	.19	27.3%	81.8%	13.0	0.0	13.0	47.5%	11.0	19.2
Cordova	.28	--	--	102.7	5.8	108.5	22.1%	93.0	132.5
Nanwalek	.26	14.6%	100.0%	42.3	1.2	43.5	38.3%	35.0	60.2
Port Graham	.26	17.9%	75.0%	39.4	8.3	47.6	86.5%	23.0	88.9
Seldovia	.05	--	--	3.0	0.0	3.0	0.0%	3.0	3.0
Seward	.00	0.0%	53.3%	0.0	0.0	0.0	0.0%	0.0	0.0
Tatitlek	.68	21.1%	78.9%	61.6	4.7	66.3	60.4%	42.0	106.4
Valdez	.04	--	--	18.0	0.0	18.0	0.0%	18.0	18.0
UPPER KENAI-COOK INLET									
Anchorage	.00	--	--	45.3	2.7	48.0	46.4%	36.0	70.3
Homer	.06	--	--	21.0	0.0	21.0	0.0%	21.0	21.0
Kenai	.01	--	--	24.9	0.0	24.9	129.6%	14.0	57.2
Tyonek	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
KODIAK ISLAND									
Akhiok	.10	22.2%	44.4%	7.2	0.0	7.2	73.7%	5.0	12.5
Karluk	.32	18.2%	81.8%	8.3	0.0	8.3	52.2%	7.0	12.6
Kodiak City	.02	--	--	17.5	0.0	17.5	44.2%	14.0	25.2
Larsen Bay	.10	17.4%	60.9%	9.0	1.1	10.2	39.6%	9.0	14.2
Old Harbor	.35	35.5%	82.3%	71.3	0.0	71.3	15.2%	65.0	82.2
Ouzinkie	.17	--	--	33.4	2.6	36.0	20.5%	28.6	43.4
Port Lions	.05	--	--	8.8	1.1	9.9	22.9%	9.0	12.2
SOUTH ALASKA PENINSULA									
Chignik Bay	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Chignik Lagoon	.01	4.8%	4.8%	1.1	0.0	1.1	57.8%	1.0	1.7
Chignik Lake	.01	5.0%	20.0%	1.3	1.3	2.6	94.2%	2.0	5.0
False Pass	.06	15.4%	76.9%	2.5	1.2	3.7	61.1%	3.0	5.9
Ivanof Bay	.33	60.0%	80.0%	7.0	1.4	8.4	50.9%	6.0	12.7
King Cove	.06	34.5%	100.0%	22.0	4.0	26.0	0.0%	26.0	26.0
Perryville	.23	28.6%	75.0%	24.0	6.9	30.9	24.4%	27.0	38.4
Sand Point	.03	--	--	10.9	1.6	12.4	67.5%	8.0	20.8

Table 6 (Continued)
Subsistence Harbor Seal Harvest, Take, and Use by Alaska Natives, 2001
With Confidence Intervals and Statistical Ranges, by Community

	Harbor Seal Harvest Per Capita	Native Households Harvesting Harbor Seal ¹	Native Households Using Harbor Seal ¹	Harvest	Struck and Lost	Take	Confidence Interval (+/- %)	Lower Range Estimate	Upper Range Estimate
ALEUTIAN ISLANDS									
Akutan	.12	13.6%	36.4%	13.6	2.7	16.4	60.7%	12.0	26.3
Atka	.75	33.3%	83.3%	63.3	6.7	70.0	53.6%	42.0	107.6
Nikolski	.20	22.2%	55.6%	5.3	0.0	5.3	74.5%	4.0	9.3
Unalaska	.10	12.1%	52.6%	37.8	3.2	41.0	15.5%	39.0	47.3
PRIBILOF ISLANDS									
St. George	.00	0.0%	2.2%	0.0	1.0	1.0	0.0%	1.0	1.0
St. Paul	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
SOUTH BRISTOL BAY									
Egegik	.07	8.3%	8.3%	6.3	1.0	7.3	27.4%	7.0	9.3
King Salmon	.06	17.4%	26.1%	8.5	6.1	14.6	44.5%	12.0	21.1
Levelock	.00	0.0%	84.6%	0.0	0.0	0.0	0.0%	0.0	0.0
Naknek	.05	6.7%	17.4%	15.1	4.3	19.4	36.5%	18.0	26.5
Pilot Point	.02	6.7%	6.7%	2.0	2.0	4.0	0.0%	4.0	4.0
Port Heiden	.11	16.0%	52.0%	10.1	3.4	13.4	31.9%	12.0	17.7
South Naknek	.10	10.0%	16.7%	11.0	3.0	14.0	0.0%	14.0	14.0
NORTH BRISTOL BAY									
Aleknagik	.00	0.0%	13.2%	0.0	1.2	1.2	72.4%	1.0	2.0
Clark's Point	.00	40.9%	95.5%	0.0	0.0	0.0	0.0%	0.0	0.0
Dillingham	.00	0.8%	82.4%	0.0	0.0	0.0	0.0%	0.0	0.0
Manokotak	.01	9.3%	42.8%	3.5	0.0	3.5	56.0%	3.0	5.5
Togiak	.01	--	--	5.3	0.0	5.3	33.2%	4.7	7.0
Twin Hills	.00	6.7%	100.0%	0.0	0.0	0.0	0.0%	0.0	0.0
ALASKA TOTAL				1,797.1	234.3	2,031.4	30.3%	1,621.2	2,647.4
SPOTTED SEALS, NORTH BRISTOL BAY									
Aleknagik	.00	0.0%	13.2%	0.0	0.0	0.0	0.0%	0.0	0.0
Clark's Point	.41	40.9%	95.5%	28.2	11.5	39.7	13.3%	38.0	45.0
Dillingham	.00	0.8%	82.4%	6.1	3.6	9.7	47.7%	8.0	14.3
Manokotak	.02	9.3%	42.8%	8.3	1.2	9.4	38.5%	8.0	13.1
Togiak	.08	--	--	60.8	4.5	65.3	16.3%	58.3	75.9
Twin Hills	.04	6.7%	100.0%	2.5	0.0	2.5	89.9%	2.0	4.8
TOTAL WITH OTHER SEALS				1,903.0	255.1	2,158.1	29.8%	1,735.4	2,800.5

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

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2002.

Geographic Distribution of Harbor Seal Takes

Table 5 shows the regional distribution of harbor seal takes by Alaska Natives in 2001. The largest takes in absolute numbers were by the Tlingit and Haida of the Southeast region. About 57.9 percent of the statewide take of harbor seals (1,176 animals), were taken by hunters in Southeast Alaska (Table 5). The regions ranked second and third were the North Pacific Rim (300 seals, or 14.8 percent of the statewide take) and Kodiak Island (160 seals, or 7.9 percent). The remainder of the statewide harbor seal take (395 animals, or 19.5 percent) was distributed among the other six regions.

The geographic distribution of harbor seal takes by community is shown in Table 6. Of the top ten communities (in absolute numbers of harbor seals taken in 2001), six were in the Southeast region, two in the North Pacific Rim region, and one each in the Kodiak Islands and Aleutian Islands. The ten top ranking communities were Sitka (274 seals), Yakutat (245 seals), Hoonah (157 seals), Cordova (108 seals), Kake (96 seals), Angoon (90 seals), Klawock (72 seals), Old Harbor (71 seals), Atka (70 seals), and Tatitlek (66 seals). There were nine communities with no reported harbor seals taken in 2001 -- Chignik Bay, Clark's Point, Dillingham, Klukwan, Levelock, St. Paul, Seward, Twin Hills, and Tyonek (spotted seals were reported taken at Clark's Point, Dillingham, and Twin Hills, and the harvest program at St. Paul did not collect seal data).

Per capita harvests are the numbers of harbor seals harvested per Alaska Native living in a community. It is an estimate of the amount harvested per person in an area, controlling for differences in population size. The top ten communities in terms of harvests per capita in 2001 were Atka (.75 harbor seals harvested per person), Tatitlek (.68), Yakutat (.56), Old Harbor (.35), Ivanof Bay (.33), Karluk (.32), Cordova (.28), Nanwalek (.26), Port Graham (.26), Hoonah (.24), and Perryville (.23). 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, two each in the Kodiak Islands, South Alaska Peninsula, and Southeast region, and one in the Aleutian Islands.

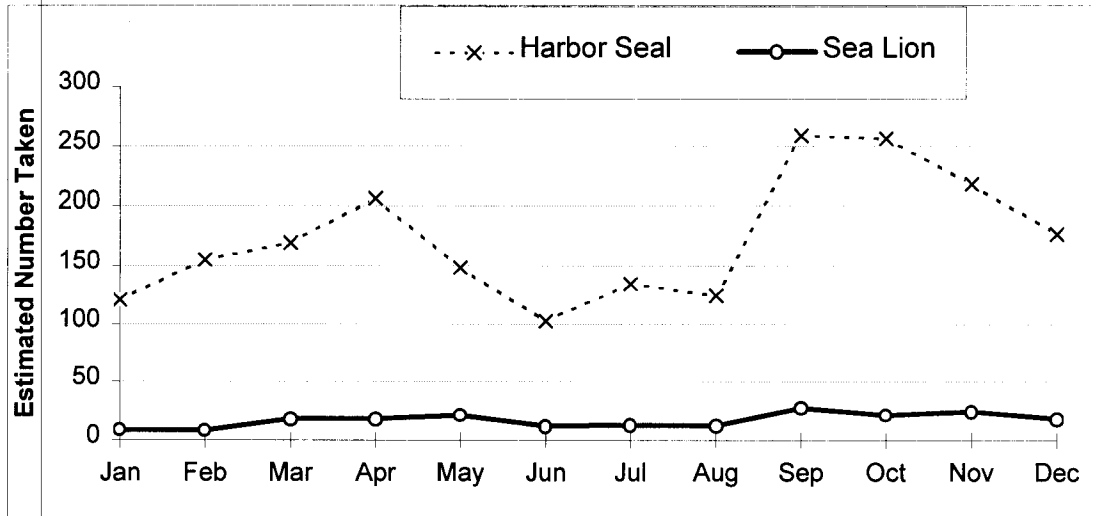
Seasonal Distribution of Harbor Seal Takes

The seasonal distribution of the statewide harbor seal take in 2001 is depicted in Figs. 4 and 5. Since 1992, the seasonal patterning of harbor seal takes commonly has shown two distinct hunting peaks, one during spring and a second during fall-early winter, and a low point in June. This general seasonal pattern prevailed during 2001. However, harbor seal hunting was exceptionally poor in 2001, particularly during the spring hunting period, which shows almost no distinguishable peak in productivity. Harbor seal takes for six months in 2001 (January, February, March, August, November, and December) were the lowest recorded since surveys began in 1992. Two months (April and May) were the second lowest on record. Only the fall season in 2001 was relatively normal compared with other years. Harbor seal takes during September and October were in the mid-range of productivity (see Fig. 5). Seals were taken during all months in 2001. The fewest seals were taken during June, July, and August. Seasonal hunting patterns of each region and community are depicted in the tables and figures of Appendices B and C.

Age and Sex Composition of Harbor Seal Harvests

The estimated age and sex composition of the 2001 harbor seal harvests are shown in Tables 7 and 8 by geographic region. Hunters reported harvesting male harbor seals over female harbor seals by a ratio of about 2.4 to 1 (917 males to 381 females of harvests with reported sex). Hunters also reported harvesting substantially more adult harbor seals (71.6 percent) than juveniles (19.8 percent) or pups (0.2 percent). Overall, adult females (324 animals) comprised about 25.0 percent of the total harbor seal harvest whose age and sex was reported in 2001. Hunters did not report the

Figure 4
Seasonally Adjusted Takes of
Harbor Seal and Sea Lion
By Alaska Natives, 2001



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Harbor Seal	120.9	155.5	169.4	206.5	148.3	102.4	134.3	124.4	258.6	256.1	218.3	176.7
Percentage	5.8%	7.5%	8.2%	10.0%	7.2%	4.9%	6.5%	6.0%	12.5%	12.4%	10.5%	8.5%
Cum. Percent	5.8%	13.3%	21.5%	31.5%	38.6%	43.6%	50.1%	56.1%	68.6%	80.9%	91.5%	100%

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sea Lion	8.4	7.9	17.8	17.8	20.9	11.4	12.7	12.1	27.0	21.1	23.8	17.6
Percentage	4.2%	4.0%	9.0%	9.0%	10.5%	5.7%	6.4%	6.1%	13.6%	10.7%	12.0%	8.9%
Cum. Percent	4.2%	8.2%	17.2%	26.1%	36.7%	42.4%	48.8%	54.9%	68.5%	79.2%	91.1%	100%

Source: Alaska Department of Fish and Game, Division of Subsistence Surveys, 2002.

Figure 5
Estimated Seasonally Adjusted Takes of Harbor Seal
by Alaska Natives, 1992 - 2001

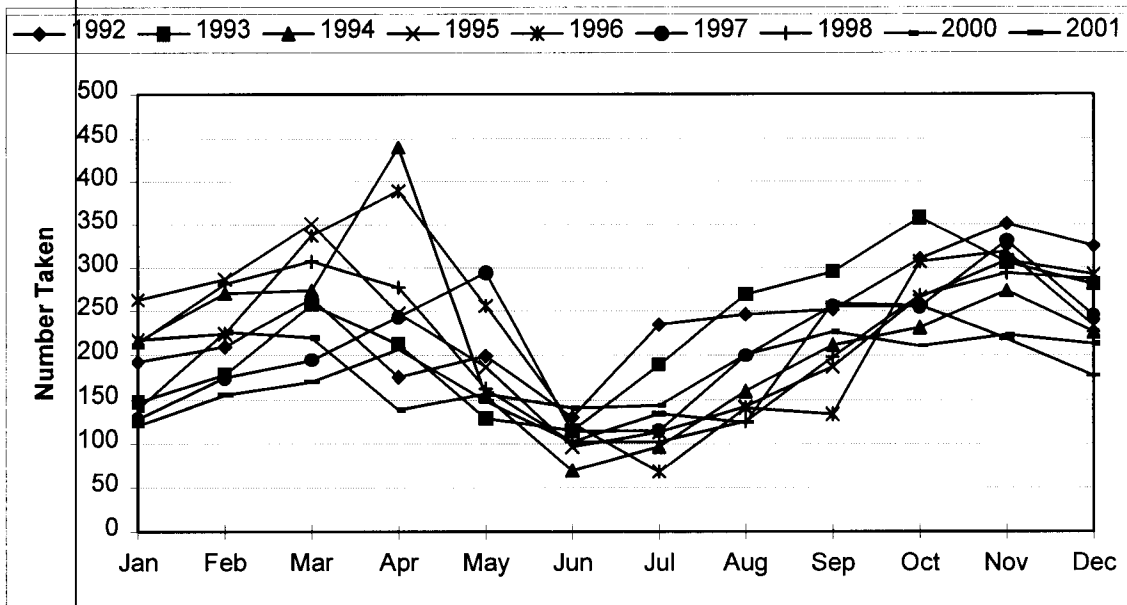
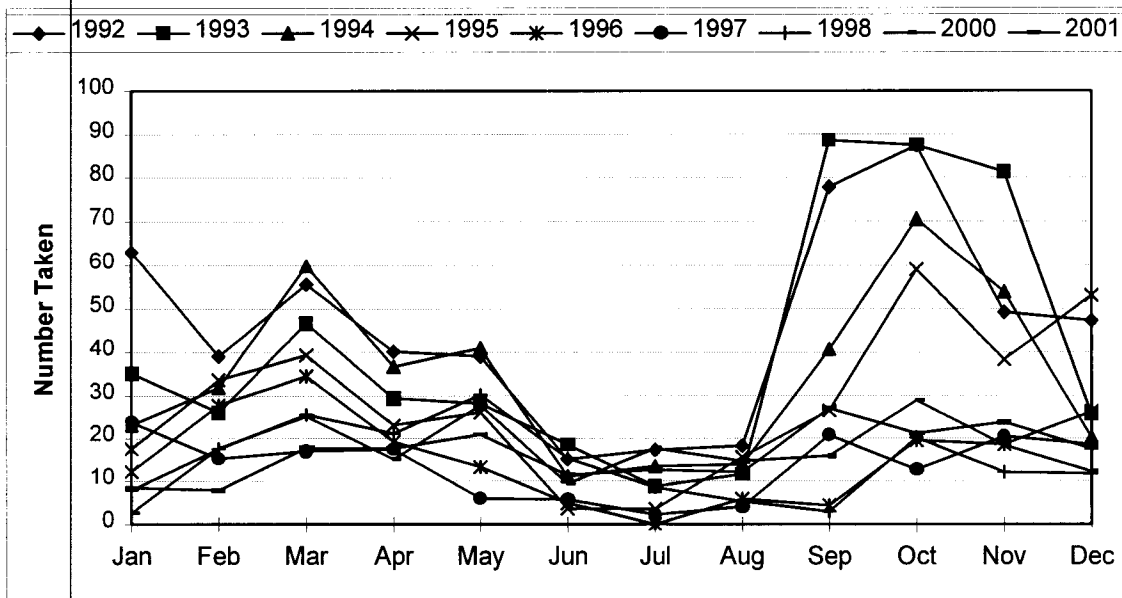


Figure 6
Estimated Seasonally Adjusted Takes of Sea Lion
by Alaska Natives, 1992 - 2001



Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2002.

Table 7
Age and Sex Composition of Harbor Seal Harvests
By Alaska Natives, 2001

	Male	Female	Unknown Sex	Total
Adult	701.3	323.6	262.0	1,286.9
Row Percent	54.5%	25.1%	20.4%	100.0%
Column Percent	76.5%	84.9%	52.6%	71.6%
Juvenile	210.7	55.7	88.5	354.9
Row Percent	59.4%	15.7%	24.9%	100.0%
Column Percent	23.0%	14.6%	17.8%	19.8%
Pup	1.0	0.0	2.2	3.2
Row Percent	32.1%	0.0%	67.9%	100.0%
Column Percent	0.1%	0.0%	0.4%	0.2%
Unknown Age	4.1	2.0	145.5	151.7
Row Percent	2.7%	1.3%	96.0%	100.0%
Column Percent	0.5%	0.5%	29.2%	8.4%
Total	917.2	381.3	498.3	1,796.8
Row Percent	51.0%	21.2%	27.7%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%

Source: Alaska Department of Fish and Game, Division of Subsistence Surveys, 2002.

Table 8
Age and Sex Composition of Harbor Seal Harvests
By Alaska Natives by Region, 2001

AGE AND SEX	Southeast	North	Upper	Kodiak	South	Aleutian	Pribilof	South	North	Alaska
		Pacific	Kenai-					Bristol	Bristol	
		Rim	Inlet	Island	Peninsula	Islands	Islands	Bay	Bay	
Adult Male	412.8	102.7	8.7	84.5	28.9	33.9	0.0	27.4	2.3	701.3
Adult Female	249.8	26.3	0.0	15.1	15.0	4.5	0.0	10.7	2.2	323.6
Adult Unknown Sex	173.9	18.6	36.0	18.7	5.2	6.6	0.0	3.0	0.0	262.0
Juvenile Male	88.7	42.6	2.7	22.7	7.1	44.5	0.0	2.4	0.0	210.7
Juvenile Female	22.3	15.2	2.7	2.4	1.4	10.6	0.0	1.2	0.0	55.7
Juvenile Unknown Sex	12.7	24.9	38.6	8.8	0.0	0.0	0.0	2.0	1.6	88.5
Pup Male	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0
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	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
Male Unknown Age	1.0	0.0	0.0	1.1	0.0	0.0	0.0	2.0	0.0	4.1
Female Unknown Age	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0
Unknown Age and Sex	56.4	49.7	2.7	2.2	11.1	20.0	0.0	1.1	2.4	145.5
TOTAL	1,019.9	279.9	91.2	155.6	68.7	120.1	0.0	52.9	8.5	1,796.8
AGE ONLY										
Adult	836.6	147.5	44.7	118.4	49.1	45.0	0.0	41.2	4.5	1,286.9
Juvenile	123.7	82.7	43.9	33.9	8.5	55.1	0.0	5.7	1.6	354.9
Pup	2.2	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	3.2
Unknown Age	57.4	49.7	2.7	3.3	11.1	20.0	0.0	5.1	2.4	151.7
TOTAL	1,019.9	279.9	91.2	155.6	68.7	120.1	0.0	52.9	8.5	1,796.8
SEX ONLY										
Male	502.6	145.2	11.3	108.4	36.0	78.5	0.0	32.9	2.3	917.2
Female	272.0	41.5	2.7	17.5	16.4	15.0	0.0	13.9	2.2	381.3
Unknown Sex	245.3	93.2	77.2	29.7	16.3	26.6	0.0	6.1	3.9	498.3
TOTAL	1,019.9	279.9	91.2	155.6	68.7	120.1	0.0	52.9	8.5	1,796.8

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2002.

sex for 27.7 percent of the harvest or the age for about 8.4 percent of the harvest. The age and sex are also unknown for animals that were struck and lost. A further analysis of age and sex composition is found in the Discussion section.

Hunter Assessments of Harbor Seal Population Trends

In the year 2000 survey, surveyed households were asked to make subjective assessments of harbor seal population trends in their hunting areas. Households were asked, “compared to five years ago, has the harbor seal population where members of your household have hunted ‘increased,’ ‘remained stable,’ ‘declined,’ ‘do not know,’ or ‘not applicable (do not hunt)’?” It is useful to display these subjective assessments of local population trends, even though they pertain to a comparison of the year 2000 with the previous five years (see Table 9). Responses of ‘do not know’ or ‘not applicable (do not hunt)’ are removed in this analysis.

In all regions, a portion of households reported that local harbor seal populations had “increased,” “remained stable,” or “declined.” In the Southeast region, most households reported that harbor seal populations had either “increased” (43.6 percent) or “remained stable” (46.3 percent) in household hunting areas over the past five years. Declining populations were reported by only 10.1 percent of households. A similar pattern of responses is found for South Bristol Bay. By contrast, most households reported that local harbor seal populations had “declined” in the North Pacific Rim (60.0 percent) and South Alaska Peninsula (55.8 percent). On Kodiak Island, most households reported that local seal populations had “remained stable” (48.0 percent), while 33.3 percent reported declines and 18.7 percent reported increases. In North Bristol Bay, decreasing seal populations were reported by 58.5 percent of households, observations which may refer primarily to spotted seals, the predominant type of *issuriq* in the region.

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

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

* Comparing 2000 with 1995.

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

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

Table 10
Estimated Subsistence Takes of
Sea Lion (*Eumetopias jubatus*)
By Alaska Natives, 1992 - 2001

<u>Year</u>	<u>Estimated Total</u>			<u>Lower and Upper Confidence Range for Total Take</u>
	<u>Harvest</u>	<u>Struck and Lost</u>	<u>Total Take</u>	
1992	370 67.4%	179 32.6%	549 100.0%	452 - 712
1993	348 71.4%	139 28.6%	487 100.0%	390 - 629
1994	336 80.8%	80 19.2%	416 100.0%	330 - 554
1995	307 90.5%	32 9.5%	339 100.0%	258 - 465
1996	152 81.7%	34 18.3%	186 100.0%	165 - 226
1997	146 89.1%	18 10.9%	164 100.0%	132 - 227
1998	131 73.6%	47 26.4%	178 100.0%	137 - 257
2000	141 86.3%	22 13.7%	164 100.0%	121 - 244
2001	156 78.7%	42 21.3%	198 100.0%	162 - 282

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

THE SUBSISTENCE TAKE OF SEA LIONS IN 2001

Estimated Size of the Sea Lion Take, 2001

The estimated size of the total take of Steller sea lions by Alaska Natives in 2001 is presented in Tables 10 and 11. In 2001, there were an estimated 198 sea lions taken by Alaska Natives for subsistence uses (with a 95 percent confidence range of between 162 to 282 animals) (Table 10). Of the 2001 subsistence take, 21.3 percent (42 sea lions) were struck and lost, and 78.7 percent (156 sea lions) were harvested.

Geographic Distribution of Sea Lion Takes

Table 11 shows the regional distribution of sea lion takes in 2001 by Alaska Natives. In 2001, the takes were split among three main regions – the Aleutian Islands (98 sea lions, or 49.3 percent of the total statewide take of sea lions), the Pribilof Islands (38 sea lions, or 19.1 percent), and the Kodiak Island (35 sea lions, or 17.7 percent). Other regions harvesting sea lions were the North Pacific Rim (15 sea lions, or 7.4 percent), South Alaska Peninsula (12 sea lions, 5.9 percent), and Upper Kenai-Cook Inlet (1 sea lion, 0.7 percent) (Table 11).

The geographic distribution of sea lion takes by community is shown in Table 12. In 2001, 19 of 62 surveyed communities reported harvesting sea lions. Only eight communities had harvests of five or more sea lions in 2001. Eleven more communities reported a take of less than five sea lions. The six top ranking communities were Atka (45 sea lions), Old Harbor (29 sea lions), Unalaska (28 sea lions), St. Paul (24 sea lions), Akutan (18 sea lions), and St. George (14 sea lions). These six communities accounted for 158 sea lions, or 79.7 percent of the total Alaska take.

Table 11

**Regional Distribution of Subsistence Takes of
Sea Lion (*Eumetopias jubatus*) by Alaska Natives, 2001
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	0.0%	0.00	0.0%
North Pacific Rim	14.7	0.0	14.7	70.0%	11.0	25.0	7.4%	0.01	0.0%
Upper Kenai-Cook Inlet	1.3	0.0	1.3	98.0%	1.0	2.6	0.7%	0.00	0.0%
Kodiak Island	32.8	2.2	35.0	31.3%	31.0	46.0	17.7%	0.02	6.3%
South Alaska Peninsula	10.2	1.4	11.6	55.6%	9.0	18.1	5.9%	0.01	12.1%
Aleutian Islands	78.1	19.6	97.7	55.7%	72.0	152.2	49.3%	0.16	20.1%
Pribilof Islands	19.0	19.0	38.0	0.0%	38.0	38.0	19.1%	0.06	50.0%
South Bristol Bay	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.00	0.0%
North Bristol Bay	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.00	0.0%
ALASKA	156.2	42.2	198.4	42.1%	162.0	282.0	100.0%		21.3%
Percentage of Take	78.7%	21.3%	100.0%						

Source: Alaska Department of Fish and Game, Division of Subsistence Surveys, 2002 and Lestenkof, Zavadil, and Williams (2002).

Seasonal Distribution of Sea Lion Takes

The seasonal distribution of the sea lion take in 2001 is depicted in Figs. 4 and 6. Sea lions were reported killed during every month in 2001. Productivity was greatest in September, and lowest in January and February. Overall, the monthly productivity of sea lion hunting in early 2001 (January through April) was extremely poor, among the lowest on record. The remainder of the year (May through December) showed a mid-range in productivity. Overall, productivity was substantially poorer compared with the period 1992 through 1995. The declines of productivity during both the spring and fall periods are particularly notable in Fig. 6. Seasonal hunting patterns of each region and community are depicted in the tables and figures of Appendices B and C.

Age and Sex Composition of Sea Lion Harvests

The reported age and sex compositions of the 2001 sea lion harvests are shown in Tables 13 and 14 by geographic region. Hunters reported harvesting male sea lions over female sea lions by a ratio of about 3 to 1 (91 males to 30 females of animals with sex reported). In 2001, sea lion harvests were fairly evenly split between adult sea lions (66 adults, 42.3 percent) and juvenile sea lions (60 juveniles, 38.7 percent), with an additional 2 pups (1.3 percent). From 1992 to 1995, juvenile harvests outnumbered adult harvests by at least 2 to 1 -- 2.3 juveniles to one adult (1992), 1.9 (1993), 2.2 (1994), and 2.0 (1995). Since 1996, the ratio of juveniles to adults has decreased substantially -- 1.0 juveniles to one adult (1996), 1.4 (1997), 0.7 (1998), 1.0 (2000), and 0.9 (2001). Adult females (17 animals) comprised about 13.8 percent of the total harvest of sea lions of known age and sex in 2001. Hunters did not report the sex for 22.3 percent of the harvest or the age for about 17.6 percent of the harvest. The age and sex also are unknown for sea lions that were struck and lost by surveyed hunters.

Table 12
Subsistence Sea Lion Harvest, Take, and Use by Alaska Natives, 2001
With Confidence Intervals and Statistical Ranges, by Community

	Sea Lion Harvest Per Capita	Native Households Harvesting Sea Lion	Native Households Using Sea Lion	Harvest	Struck and Lost	Take	Confidence Interval (+/- %)	Total Take Lower Range Estimate	Upper Range Estimate
SOUTHEAST ALASKA									
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	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Wrangell	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Yakutat	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
NORTH PACIFIC RIM									
Chenega Bay	.02	9.1%	45.5%	1.2	0.0	1.2	76.9%	1.0	2.1
Cordova	.01	--	--	3.5	0.0	3.5	53.2%	3.0	5.4
Nanwalek	.02	4.9%	31.7%	3.7	0.0	3.7	64.0%	3.0	6.1
Port Graham	.00	0.0%	14.3%	0.0	0.0	0.0	0.0%	0.0	0.0
Seldovia	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Seward	.00	0.0%	3.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Tatitlek	.07	10.5%	36.8%	6.3	0.0	6.3	81.6%	4.0	11.5
Valdez	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
UPPER KENAI-COOK INLET									
Anchorage	.00	--	--	1.3	0.0	1.3	98.0%	1.0	2.6
Homer	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Kenai	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Tyonek	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
KODIAK ISLAND									
Akhiok	.02	11.1%	11.1%	1.4	0.0	1.4	108.7%	1.0	3.0
Karluk	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Kodiak City	.00	--	--	2.5	0.0	2.5	87.7%	2.0	4.7
Larsen Bay	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Old Harbor	.13	16.1%	56.5%	26.3	2.2	28.5	19.6%	26.0	34.1
Ouzinkie	.01	--	--	2.6	0.0	2.6	62.8%	2.0	4.2
Port Lions	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
SOUTH ALASKA PENINSULA									
Chignik Bay	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Chignik Lagoon	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Chignik Lake	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
False Pass	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Ivanof Bay	.07	20.0%	100.0%	1.4	1.4	2.8	64.2%	2.0	4.6
King Cove	.01	10.3%	10.3%	3.0	0.0	3.0	0.0%	3.0	3.0
Perryville	.01	3.6%	14.3%	1.1	0.0	1.1	69.3%	1.0	1.9
Sand Point	.01	--	--	4.7	0.0	4.7	82.8%	3.0	8.5

Table 12 (Continued)
Subsistence Sea Lion Harvest, Take, and Use by Alaska Natives, 2001
With Confidence Intervals and Statistical Ranges, by Community

	Sea Lion Harvest Per Capita	Native Households Harvesting Sea Lion	Native Households Using Sea Lion	Harvest	Struck and Lost	Take	Confidence Interval (+/- %)	Lower Range Estimate	Upper Range Estimate
ALEUTIAN ISLANDS									
Akutan	.13	13.6%	18.2%	15.0	2.7	17.7	71.9%	13.0	30.5
Atka	.40	33.3%	88.9%	33.3	11.7	45.0	74.2%	27.0	78.4
Nikolski	.25	22.2%	66.7%	6.7	0.0	6.7	78.4%	5.0	11.9
Unalaska	.06	13.5%	51.5%	23.1	5.3	28.4	11.1%	27.0	31.5
PRIBILOF ISLANDS									
St. George	.05	6.7%	37.0%	7.0	7.0	14.0	0.0%	14.0	14.0
St. Paul	.03	N/A	N/A	12.0	12.0	24.0	0.0%	24.0	24.0
SOUTH BRISTOL BAY									
Egegik	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
King Salmon	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Levelock	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Naknek	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Pilot Point	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Port Heiden	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
South Naknek	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
NORTH BRISTOL BAY									
Aleknagik	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Clark's Point	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Dillingham	.00	0.0%	0.3%	0.0	0.0	0.0	0.0%	0.0	0.0
Manokotak	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Togiak	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Twin Hills	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
ALASKA TOTAL				156.2	42.2	198.4	42.1%	162.0	282.0

Sources: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2002
and Lestenkof, Zavadil, and Williams (2002).

Table 13
Age and Sex Composition of Sea Lion Harvests
By Alaska Natives, 2001

	Male	Female	Unknown Sex	Total
Adult	46.1	16.9	3.2	66.1
Row Percent	69.7%	25.5%	4.8%	100.0%
Column Percent	50.6%	55.9%	9.1%	42.3%
Juvenile	43.0	13.3	4.2	60.4
Row Percent	71.1%	22.0%	6.9%	100.0%
Column Percent	47.1%	44.1%	12.0%	38.7%
Pup	2.1	0.0	0.0	2.1
Row Percent	3.5%	0.0%	0.0%	3.5%
Column Percent	2.3%	0.0%	0.0%	1.3%
Unknown Age	0.0	0.0	27.6	27.6
Row Percent	0.0%	0.0%	100.0%	100.0%
Column Percent	0.0%	0.0%	79.0%	17.6%
Total	91.1	30.2	34.9	156.2
Row Percent	58.3%	19.3%	22.3%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%

Sources: Alaska Department of Fish and Game, Division of Subsistence Surveys, 2002 and Lestenkof, Zavadil, and Williams (2002).

Table 14
Age and Sex Composition of Sea Lion Harvests
By Alaska Natives by Region, 2001

AGE AND SEX	Southeast	Upper			South			South		North	Alaska
		Pacific	Kenai- Cook Inlet	Kodiak Island	Alaska Peninsula	Aleutian Islands	Pribilof Islands	Bristol Bay	Bristol Bay		
Adult Male	0.0	2.3	0.0	14.6	3.1	25.0	1.0	0.0	0.0	0.0	46.1
Adult Female	0.0	1.2	0.0	8.8	1.0	5.9	0.0	0.0	0.0	0.0	16.9
Adult Unknown Sex	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
Juvenile Male	0.0	2.3	1.3	6.9	4.5	13.9	14.0	0.0	0.0	0.0	43.0
Juvenile Female	0.0	2.5	0.0	1.3	0.0	5.6	4.0	0.0	0.0	0.0	13.3
Juvenile Unknown Sex	0.0	0.0	0.0	1.3	1.6	1.3	0.0	0.0	0.0	0.0	4.2
Pup Male	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	2.1
Pup Female	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pup Unknown Sex	0.0	0.0	0.0	0.0	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	0.0
Female Unknown Age	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown Age and Sex	0.0	3.2	0.0	0.0	0.0	24.4	0.0	0.0	0.0	0.0	27.6
TOTAL	0.0	14.7	1.3	32.8	10.2	78.1	19.0	0.0	0.0	0.0	156.2
AGE ONLY											
Adult	0.0	6.8	0.0	23.4	4.1	30.9	1.0	0.0	0.0	0.0	66.1
Juvenile	0.0	4.8	1.3	9.5	6.1	20.8	18.0	0.0	0.0	0.0	60.4
Pup	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	2.1
Unknown Age	0.0	3.2	0.0	0.0	0.0	24.4	0.0	0.0	0.0	0.0	27.6
TOTAL	0.0	14.7	1.3	32.8	10.2	78.1	19.0	0.0	0.0	0.0	156.2
SEX ONLY											
Male	0.0	4.7	1.3	21.5	7.7	40.9	15.0	0.0	0.0	0.0	91.1
Female	0.0	3.7	0.0	10.0	1.0	11.4	4.0	0.0	0.0	0.0	30.2
Unknown Sex	0.0	6.3	0.0	1.3	1.6	25.7	0.0	0.0	0.0	0.0	34.9
TOTAL	0.0	14.7	1.3	32.8	10.2	78.1	19.0	0.0	0.0	0.0	156.2

Sources: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2002 and Lestenkof, Zavadil, and Williams (2002).

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

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

* Comparing 2000 with 1995.

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

Hunter Assessments of Sea Lion Population Trends

In the year 2000 survey, surveyed households were asked to make subjective assessments of sea lion population trends in their hunting areas. Households were asked, “compared to five years ago, has the sea lion population where members of your household have hunted -- ‘increased,’ ‘remained stable,’ ‘declined,’ ‘do not know,’ or ‘not applicable (do not hunt)’?” It is useful to show these subjective assessments of population trends, although they pertain to a comparison of 2000 with the last five years (see Table 15). Responses of ‘do not know’ or ‘not applicable (do not hunt)’ are removed in this analysis. Bristol Bay is combined as a single area because of the small number of households that ventured assessments in North Bristol Bay (9 households) and South Bristol Bay (3 households).

In all regions, a majority of households reported that local sea lion populations had “declined” in household hunting areas compared with five years ago. By ranked area, the percentages of households reporting sea lion declines included Kodiak Island (78.6 percent), North Pacific Rim (66.7 percent), South Alaska Peninsula (63.6 percent), Bristol Bay (55.6 percent), Aleutian Islands (52.9 percent), and Southeast Alaska (52.7 percent). Only in Southeast Alaska did a large proportion of households report “increases” in sea lion populations in household hunting areas. In Southeast Alaska, local sea lion populations were reported to have “increased” by 41.8 percent of households. Local sea lion populations in the Aleutian Islands were reported to have “remained stable” by 31.4 percent of households and “increased” by 15.7 percent of households.

Table 16
Participation Rates of Alaska Native Households in
Hunting Harbor Seals or Sea Lions, 1992 - 2001

	HARBOR SEAL			SEA LION		
	Households	Percent of Households	Percent of Hunting HHs	Households	Percent of Households	Percent of Hunting HHs
1992 Did Not Hunt	2,698	62%	--	3,513	81%	--
Hunted Unsuccessfully	290	7%	34%	59	1%	27%
Hunted Successfully	724	17%	85%	140	3%	63%
Total Households	3,712	85%	--	3,712	85%	--
Total Hunting Households	1,014	27%	119%	199	5%	89%
1993 Did Not Hunt	3,510	80%	--	4,142	95%	--
Hunted Unsuccessfully	216	5%	25%	78	2%	35%
Hunted Successfully	638	15%	75%	144	3%	65%
Total Households	4,364	100%	--	4,364	100%	--
Total Hunting Households	854	20%	100%	222	5%	100%
1994 Did Not Hunt	3,311	77%	--	4,072	95%	--
Hunted Unsuccessfully	362	8%	37%	85	2%	40%
Hunted Successfully	608	14%	63%	125	3%	60%
Total Households	4,282	100%	--	4,282	100%	--
Total Hunting Households	971	23%	100%	210	5%	100%
1995 Did Not Hunt	2,926	78%	--	3,573	96%	--
Hunted Unsuccessfully	208	6%	26%	39	1%	24%
Hunted Successfully	597	16%	74%	120	3%	76%
Total Households	3,731	100%	--	3,731	100%	--
Total Hunting Households	805	22%	100%	158	4%	100%
1996 Did Not Hunt	2,781	76%	--	3,510	96%	--
Hunted Unsuccessfully	240	7%	28%	45	1%	35%
Hunted Successfully	619	17%	72%	85	2%	65%
Total Households	3,640	100%	--	3,640	100%	--
Total Hunting Households	859	24%	100%	130	4%	100%
1997 Did Not Hunt	2,172	75%	--	2,813	97%	--
Hunted Unsuccessfully	150	5%	20%	23	1%	23%
Hunted Successfully	588	20%	80%	75	3%	77%
Total Households	2,910	100%	--	2,910	100%	--
Total Hunting Households	738	25%	100%	97	3%	100%
1998 Did Not Hunt	1,862	72%	--	2,458	96%	--
Hunted Unsuccessfully	100	4%	14%	36	1%	33%
Hunted Successfully	607	24%	86%	75	3%	67%
Total Households	2,569	100%	--	2,569	100%	--
Total Hunting Households	707	28%	100%	111	4%	100%
2000 Did Not Hunt	1,858	71%	--	2,488	96%	--
Hunted Unsuccessfully	124	5%	17%	30	1%	25%
Hunted Successfully	623	24%	83%	88	3%	75%
Total Households	2,605	100%	--	2,605	100%	--
Total Hunting Households	747	29%	100%	117	4%	100%
2001 Did Not Hunt	1,696	75%	--	2,169	96%	--
Hunted Unsuccessfully	83	4%	14%	22	1%	22%
Hunted Successfully	492	22%	86%	80	4%	79%
Total Households	2,271	100%	--	2,271	100%	--
Total Hunting Households	575	25%	100%	102	4%	100%

Source: Alaska Department of Fish and Game, Division of Subsistence Surveys, 2002.

Figure 7
Specialization in Harbor Seal Takes:
Percentage of Hunting Households by Percentage of Take, 2001

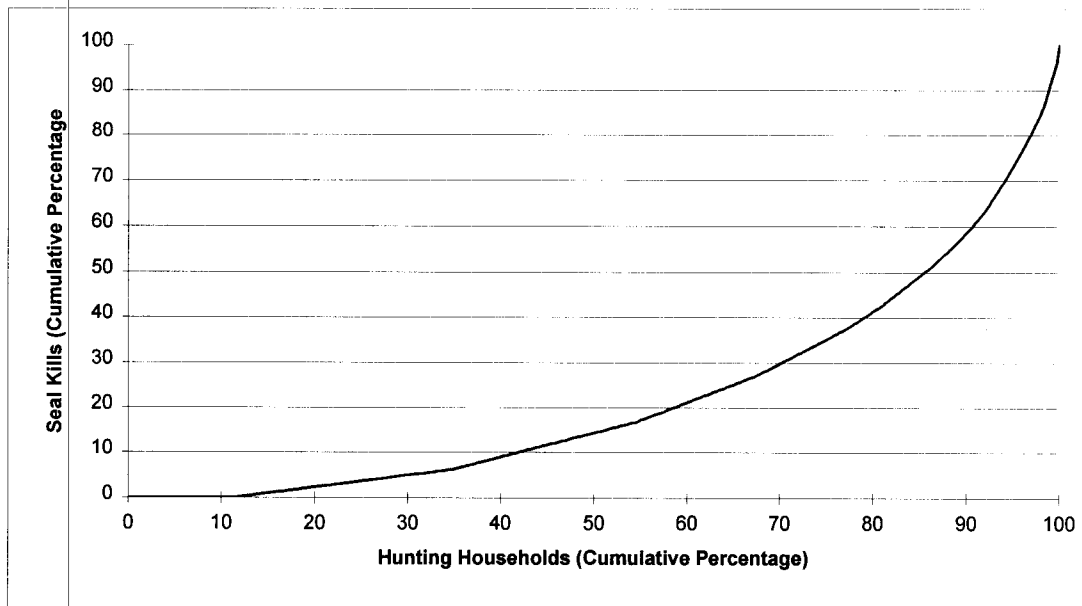
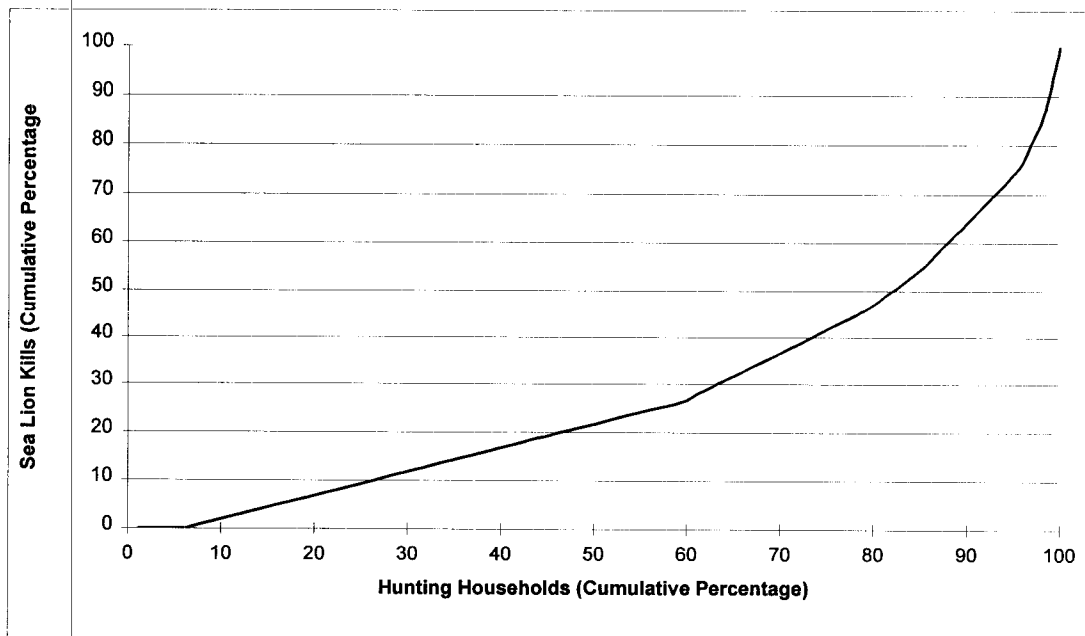


Figure 8
Specialization in Sea Lion Takes:
Percentage of Hunting Households by Percentage of Take, 2001



Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2002.

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

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

* May refer primarily to spotted seals in North Bristol Bay's mixed harbor seal-spotted seal population.
Source: ADF&G, Division of Subsistence, Household Surveys, 2001.

Table 18
Time and Effort Spent Hunting Sea Lion in 2000
Compared with Five Years Ago, Hunters' Assessments

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

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

HUNTING PARTICIPATION AND EFFORT

In calendar year 2001, there were 575 households hunting harbor seals and 102 households hunting sea lions. Since 1992, there has been a substantial decline in the numbers of hunters for harbor seals and for sea lions. Based on survey findings, the estimated numbers of households that reported at least one member hunting harbor seals were 1,014 (1992), 854 (1993), 971 (1994), 805 (1995), 859 (1996), 738 (1997), 707 (1998), 747 (2000), and 575 (2001) (Table 16). The estimated numbers of households that reported at least one member hunting sea lions were 199 (1992), 222 (1993), 210 (1994), 158 (1995), 130 (1996), 97 (1997), 111 (1998), 117 (2000), and 102 (2001).

The percentage of hunting households that reported hunting unsuccessfully for harbor seals in 2001 was only 14 percent, the lowest on record -- 34 percent (1992), 25 percent (1993), 37 percent (1994), 26 percent (1995), 28 percent (1996), 20 percent (1997), 14 percent (1998), 17 percent (2000). Therefore, seal hunter success rates have improved while the absolute number of hunters has fallen. The percentage of unsuccessful hunting households for sea lions was 22 percent in 2001, also the lowest on record -- 27 percent (1992), 35 percent (1993), 40 percent (1994), 24 percent (1995), 35 percent (1997), 23 percent (1997), 33 percent (1998), and 25 percent (2000).

In the 2000 survey cycle, surveyed households were asked to make a subjective assessment of their hunting effort in 2000 compared with five years before. Households were asked, "compared to five years ago, does harbor seal hunting now take your household -- 'more time and effort,' 'about the same time and effort,' 'less time and effort,' 'hunted then but now stopped,' or 'not applicable (no hunting last five years)'" A similar question was asked for sea lion hunting. This information is useful to display here, although it pertains to the year 2000 compared with the previous five years. The

subjective assessments for hunting households are shown in Tables 17 and 18 (responses of households not hunting during the previous five years are removed in this analysis).

In all regions, a portion of hunting households reported “more,” the “same,” or “less” time and effort in hunting harbor seals in 2000 (Table 17). In the Southeast region, where most harbor seals are taken, about 54.7 percent reported taking the “same time and effort” for hunting seals, while 30.2 percent reported taking “less time and effort.” Only 8.7 percent of households reported taking “more time and effort” compared with five years ago. By contrast, larger percentages of households reported taking “more time and effort” in seal hunting in the Aleutian Islands (42.6 percent), North Pacific Rim (33.7 percent), and Kodiak Island (29.5 percent). In the North Pacific Rim and Kodiak Island regions, a substantial percentage of households reported that they had stopped hunting harbor seals sometime during the past five years – 17.4 percent (North Pacific Rim) and 20.0 percent (Kodiak Island).

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

Figure 9.
Estimated Subsistence Takes of Harbor Seal
by Alaska Natives, 1992 - 2001

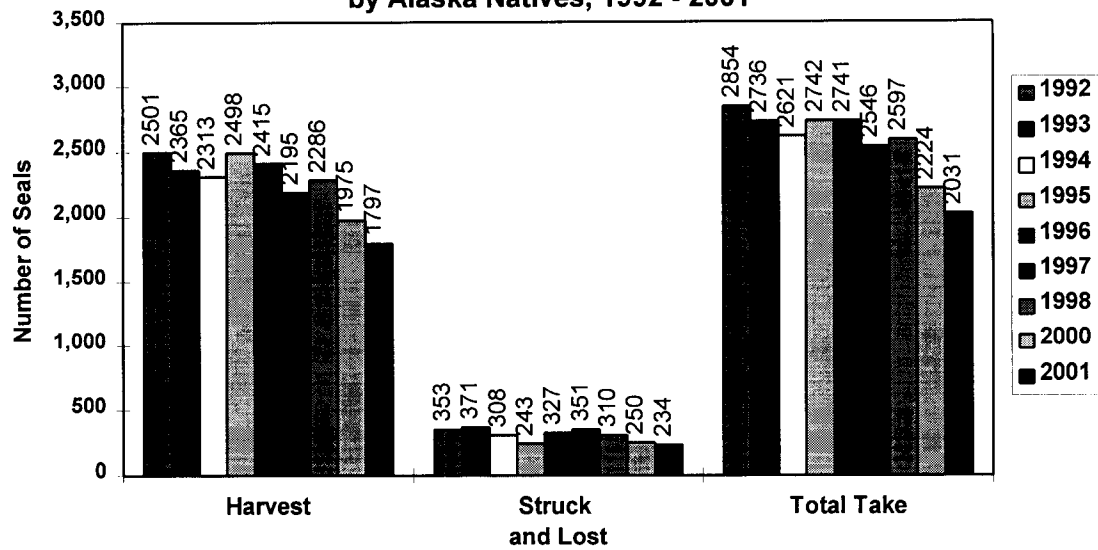


Figure 10.
Estimated Subsistence Takes of Sea Lion
by Alaska Natives, 1992 - 2001

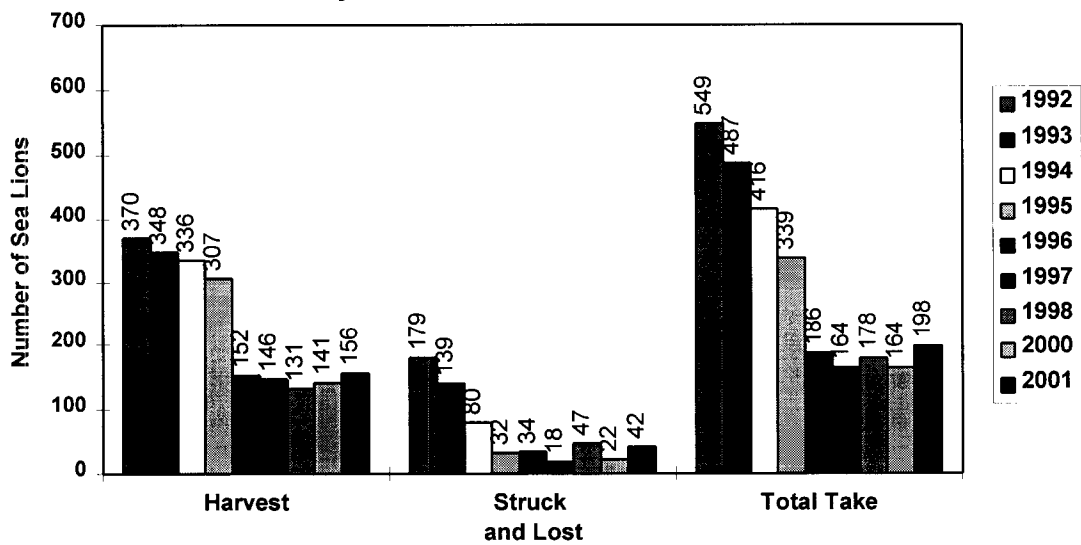


Figure 11. Harbor Seal Take Trends by Harbor Seal Stock, 1992-2001

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

Figure 12. Harbor Seal Take Trends Reported by
Alaska Native Hunters by Major Area, 1992-2001

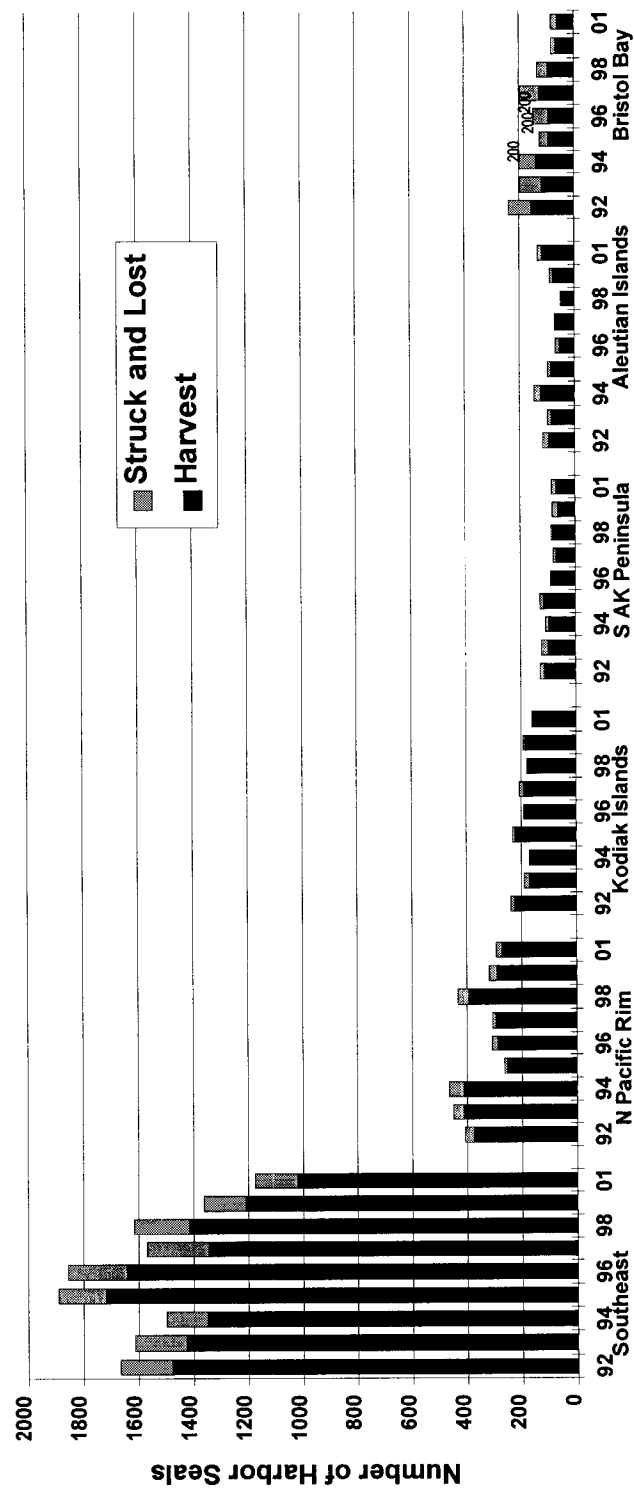
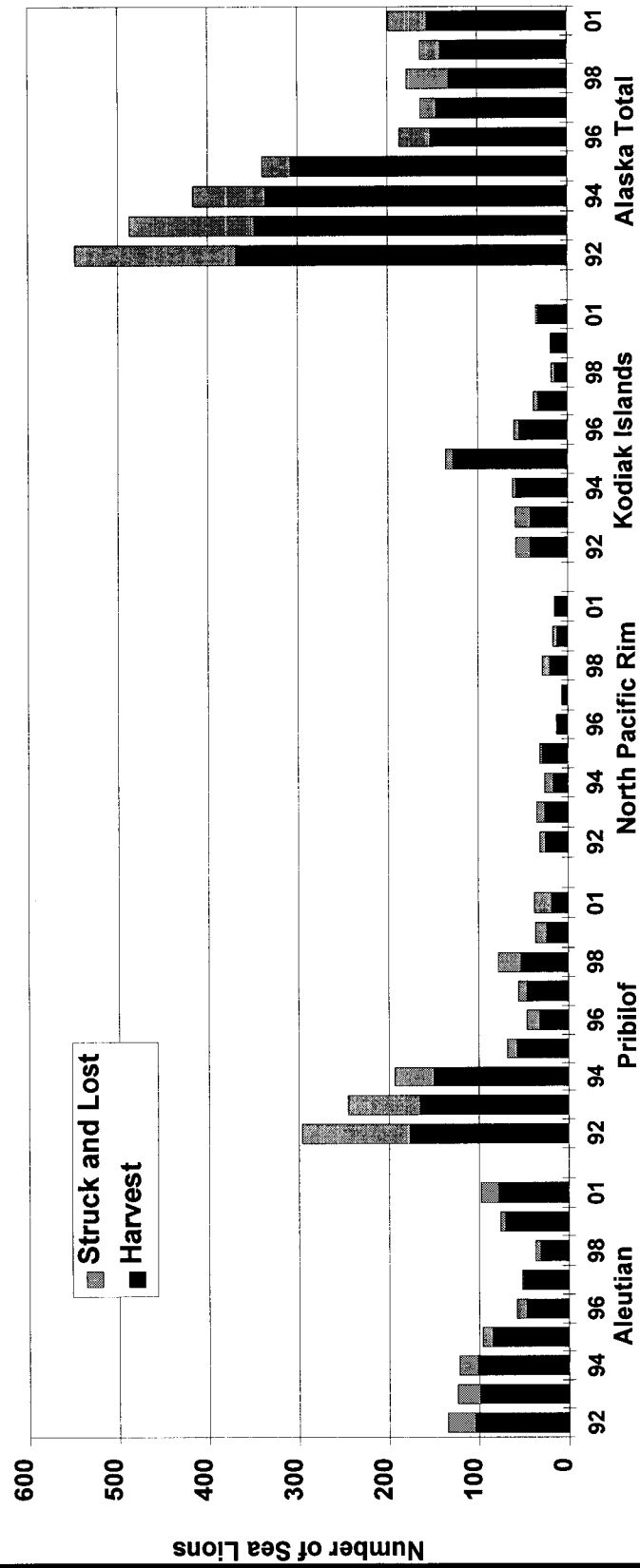
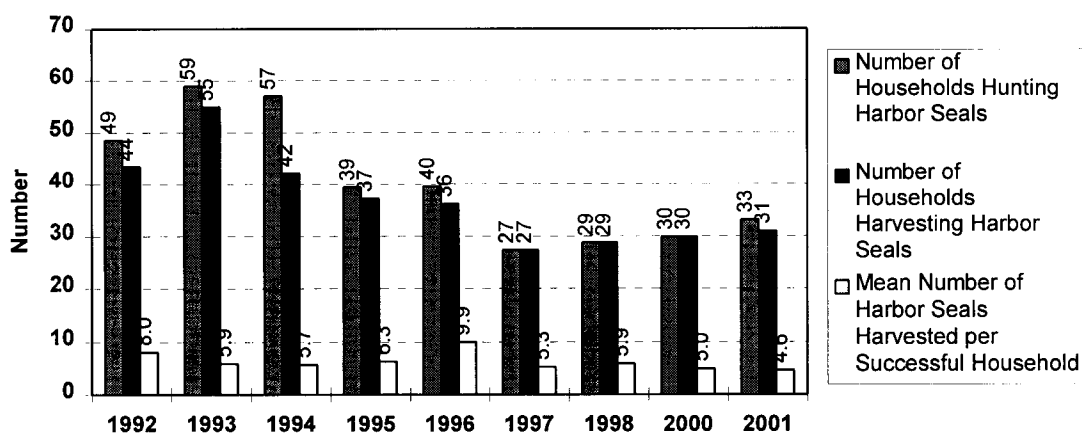


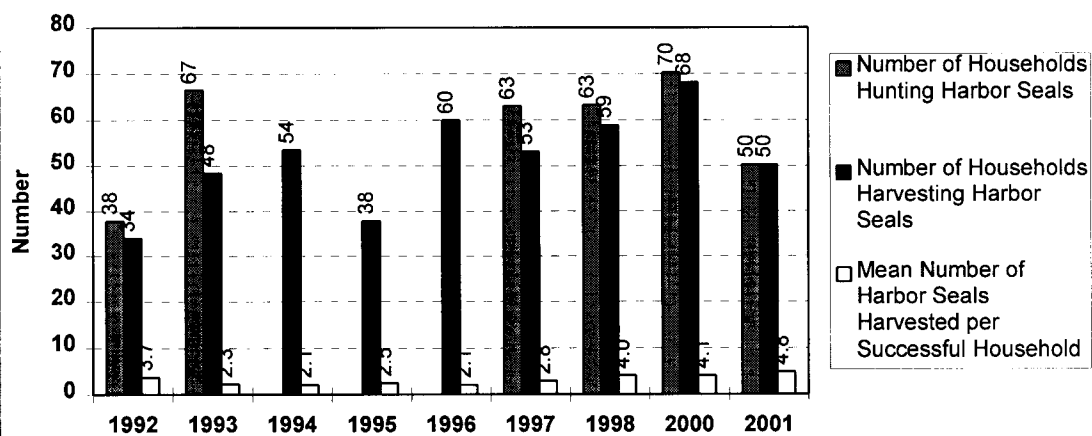
Figure 13. Sea Lion Takes Reported by
Alaska Native Hunters by Area, 1992-2001



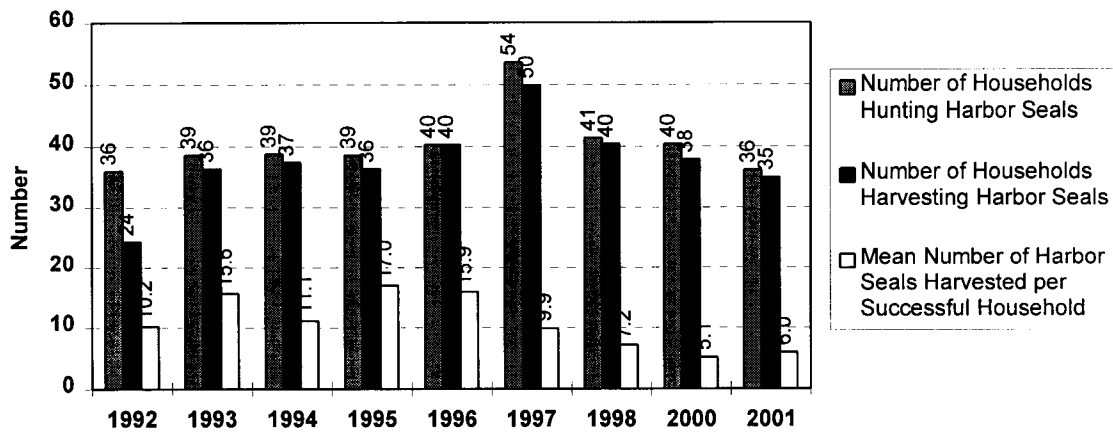
**Fig. 14. Harbor Seal Hunters and Success Rates,
Hoonah, 1992 - 2001**



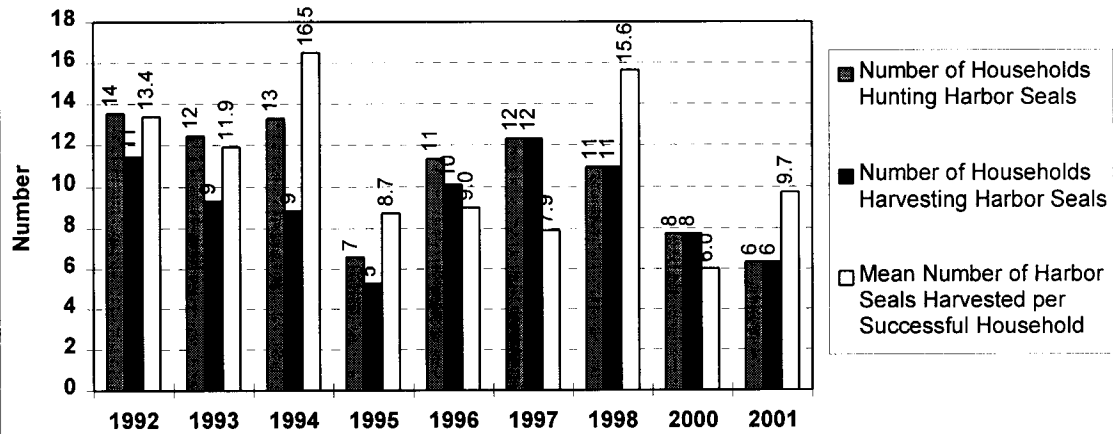
**Fig. 15. Harbor Seal Hunters and Success Rates,
Sitka, 1992 - 2001**



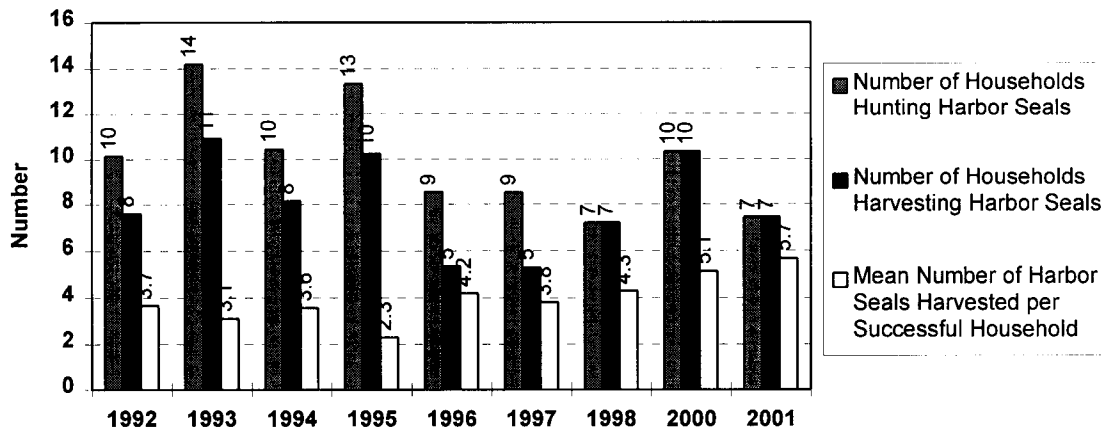
**Fig. 16. Harbor Seal Hunters and Success Rates,
Yakutat, 1992 - 2001**



**Fig. 17. Harbor Seal Hunters and Success Rates,
Tatitlek, 1992 - 2001**



**Fig. 18. Harbor Seal Hunters and Success Rates,
Nanwalek, 1992 - 2001**



**Fig. 19. Harbor Seal Hunters and Success Rates,
Old Harbor, 1992 - 2001**

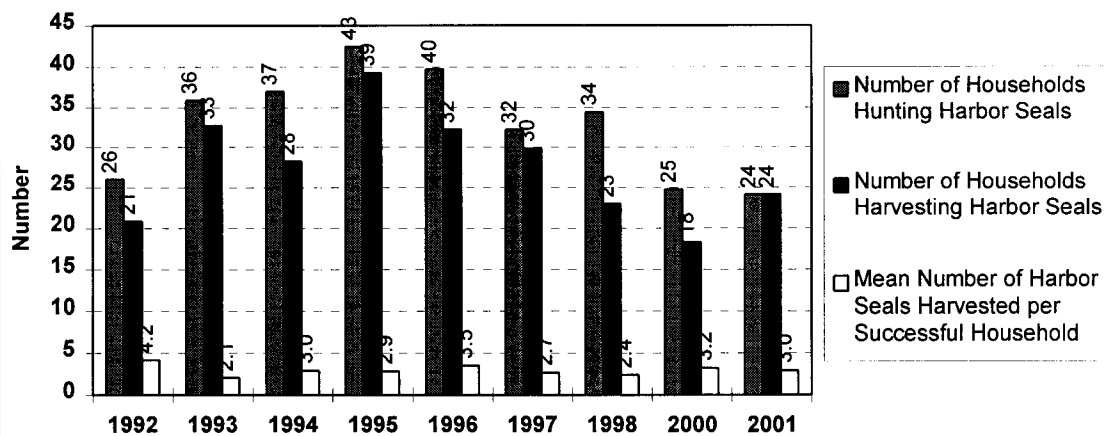
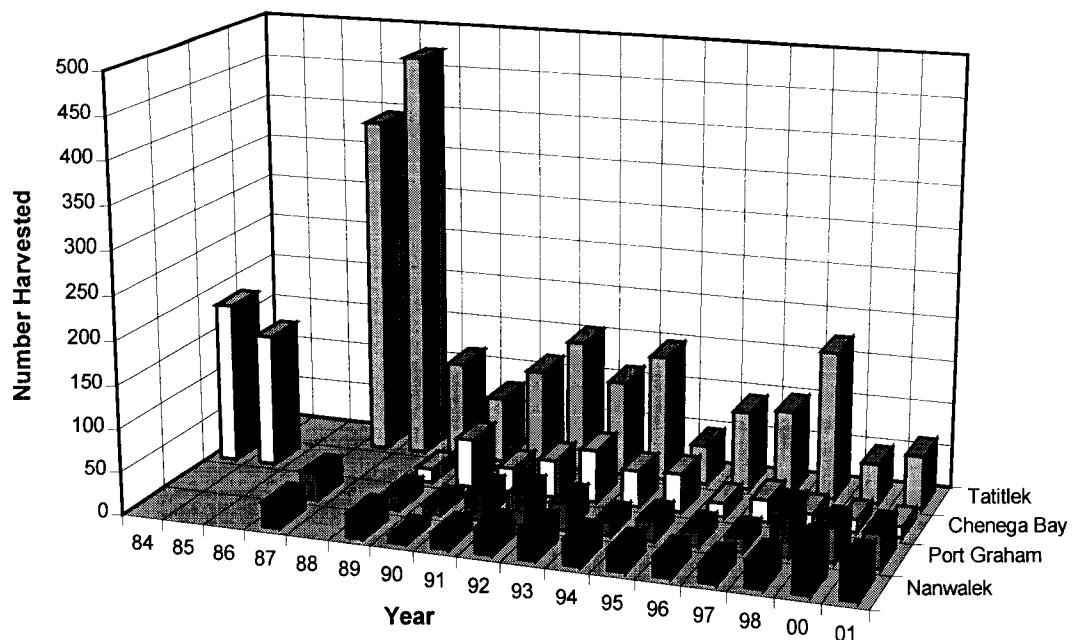
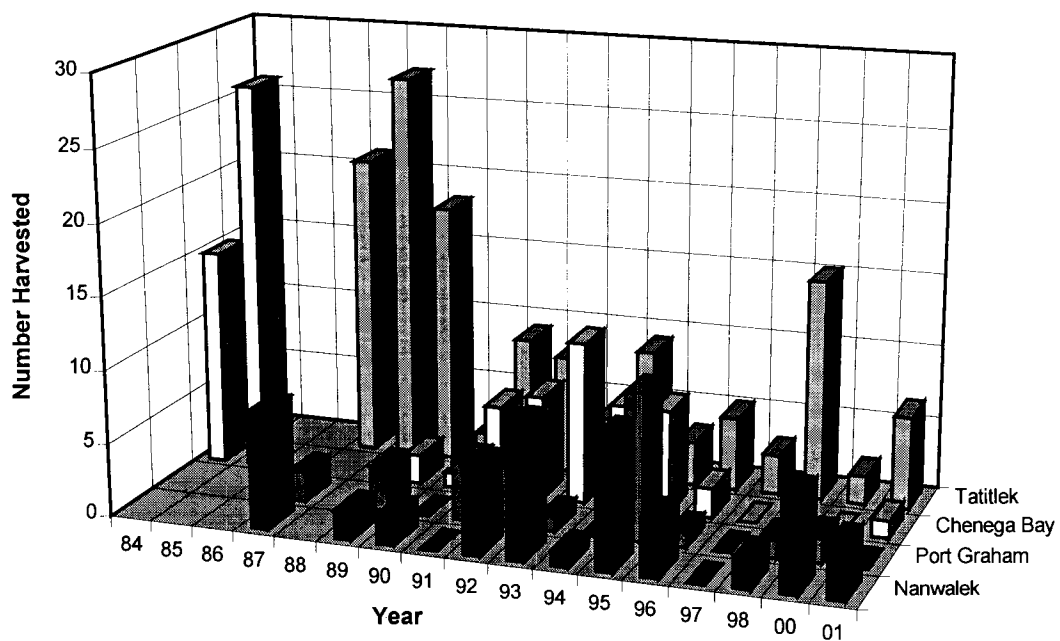


Figure 20
Change in Harbor Seal Harvests,
North Pacific Rim Communities



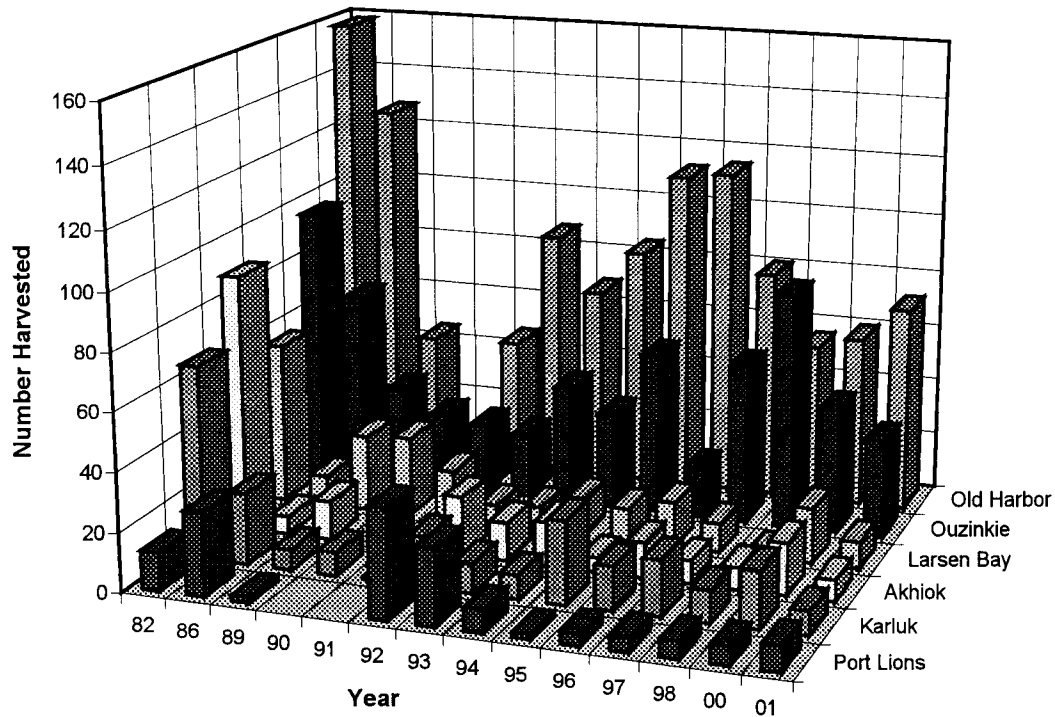
HARBOR SEAL HARVESTS				
Year	Nanwalek	Port Graham	Chenega Bay	Tatitlek
84			186	
85			154	
86				393
87	29	32		473
88				473
89	27	17	16	113
90	9	10	57	76
91	18	30	28	114
92	28	36	43	153
93	34	31	61	111
94	29	16	42	146
95	24	23	44	46
96	22	16	16	91
97	20	16	26	97
98	31	52	16	171
00	53	40	15	46
01	42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

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



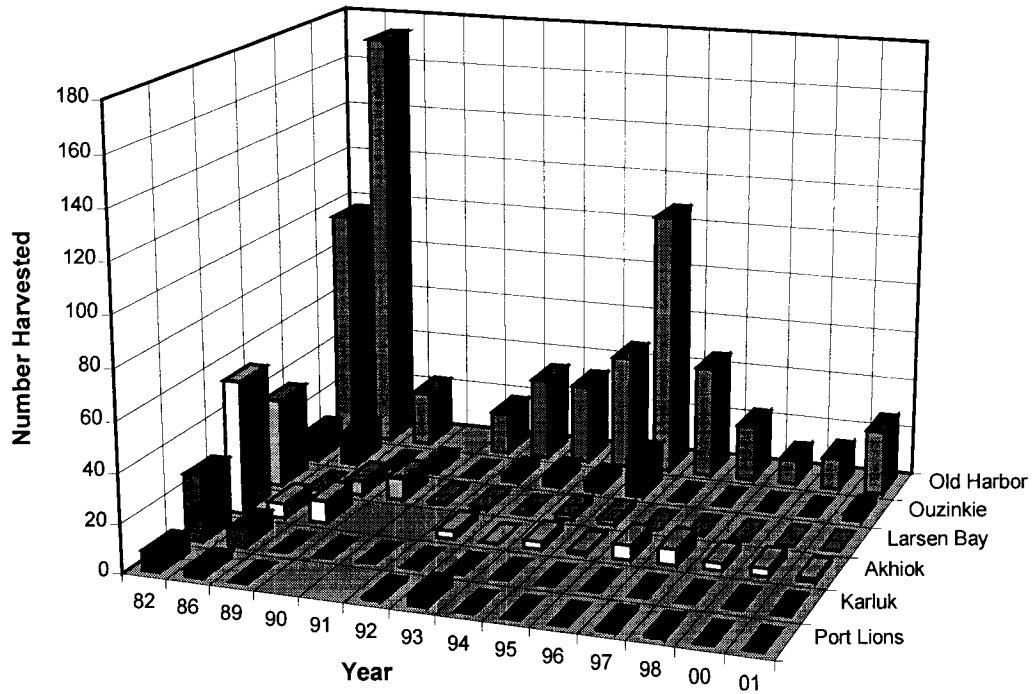
SEA LION HARVESTS				
Year	Nanwalek	Port Graham	Chenega Bay	Tatitlek
84			15	
85			27	
86				
87	8	2		21
88				27
89	2	3	2	18
90	2	0	1	2
91	0	4	6	9
92	6	4	7	8
93	9	1	11	4
94	1	0	7	9
95	9	10	7	3
96	4	1	2	5
97	0	0	0	3
98	2	1	0	15
00	6	2	0	2
01	4	0	1	6

Figure 22
Change in Harbor Seal Harvests,
Kodiak Island Communities



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

Figure 23
Change in Sea Lion Harvests,
Kodiak Island Communities



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

Figure 24.
Percentage Annual Changes in Harvest, Struck and Lost, and
Total Take, Harbor Seals, 1992 - 2001

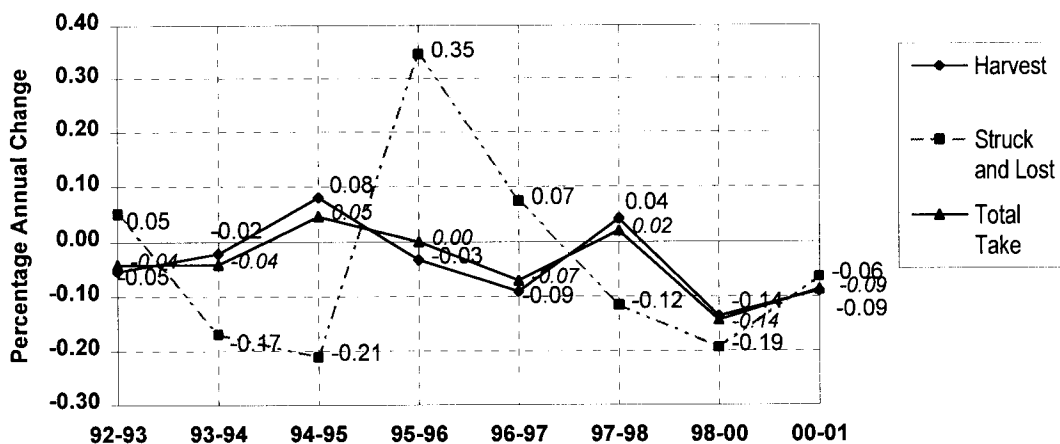
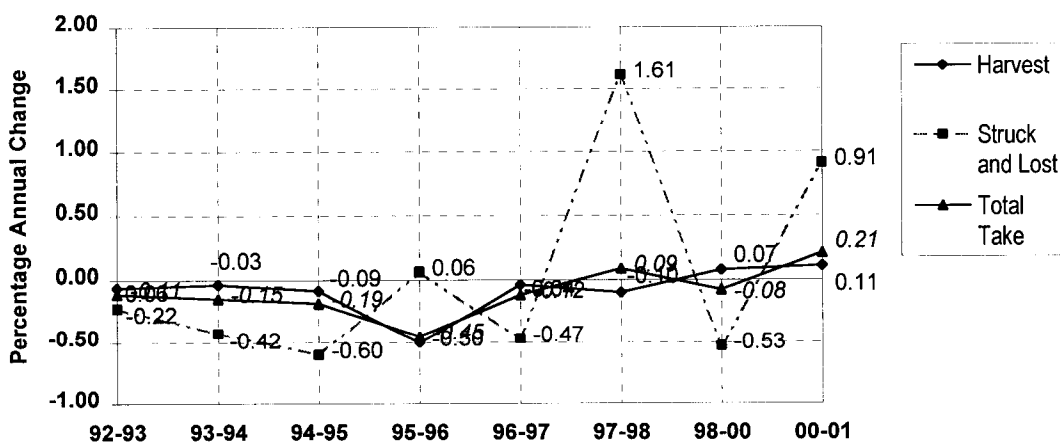


Figure 25.
Percentage Annual Changes in Harvest, Struck and Lost, and
Total Take, Sea Lions, 1992 - 2001



Hunting harbor seals or sea lions is a relatively specialized subsistence activity in Alaska communities. The large majority of Native households in the study's sampling universe did not attempt to hunt harbor seals or sea lions, as shown in Table 16. In 2001, about 75 percent of surveyed households did not hunt harbor seals and about 96 percent did not hunt sea lions. Among hunters, there also was substantial specialization in productivity (see Figs. 7 and 8). A relatively small core of highly-productive hunters reported taking most of the subsistence kills during 2001, similar to previous years. About 30 percent of the hunters reported taking about 70 percent of all harbor seals and sea lions. Highly-productive hunters commonly distributed marine mammal products among a wider range of households through non-commercial systems of sharing and trade.

DISCUSSION

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

Harbor Seal Subsistence Trends, 1992-2001

At the state level, subsistence takes of harbor seals have declined since the 1992-95 period. The 2001 harvest (1,797 seals), struck and lost (234 seals), and total take (2,031 seals) were the lowest since surveys began in 1992 (Table 4, Fig. 9). Comparing consecutive paired survey years since 1992, harbor seal takes have declined

five of the years, increased two years, and remained unchanged one year (Fig. 24). This suggests a declining trend in the annual subsistence takes of harbor seals in Alaska. The total take of harbor seals in 2001 was a 9 percent decrease from the prior survey year (2000) (Fig. 24). The total take of harbor seals in 2001 was 29 percent lower than takes in 1992. The decreases in harbor seal takes in 2001 were due to lower harvests in both the spring and the fall-early winter hunting periods (Fig. 5).

Harbor seal populations in Alaska are divided into three stocks for biological assessment – the Southeast Alaska stock, Gulf of Alaska stock, and Bering Sea stock. Harbor seal takes from the three stocks are shown in Figure 11. Total annual takes from the Southeast Alaska stock were highest in 1995 and 1996 and lowest in 2001, for an overall decline of 29 percent since 1992. Takes from the Gulf of Alaska stock were lowest in 1995 and have leveled out since then, showing an overall decline of 18 percent since 1992. Takes from the Bering Sea stock have declined from about 243 seals in 1992 to 84 seals in 2001, an overall decline of 65 percent.

Regional takes are shown in Figure 12. Annual harbor seal takes appear to be declining in Southeast Alaska, Kodiak Island, South Alaska Peninsula, and Bristol Bay. Trends in the North Pacific Rim and Aleutian Islands areas are less clear.

The reasons for declining harbor seal takes are uncertain. It is likely that some between-year differences in the yearly subsistence takes of communities represent fluctuations due to seasonal hunting conditions, local food needs, local prey availability, and personal circumstances of hunters. A closer examination of trends in some selected communities (Hoonah, Nanwalek, Old Harbor, Sitka, Tatitlek, and Yakutat) does not reveal obvious factors common across all cases (Figs. 14-19). For example, at Hoonah (Fig. 14), there were lower numbers of hunters and lower harvest rates per successful hunter, resulting in the lowest seal harvest on record. At Nanwalek (Fig. 18), Sitka (Fig. 15), and Tatitlek (Fig. 17), we find lower numbers of harbor seal hunters in 2001, but higher harvest rates per successful hunter. The absolute take of harbor seals in 2001 at

Sitka and Nanwalek was above average, while it was below average at Tatitlek. At Old Harbor (Fig. 19), there were lower numbers of hunters, but relatively average harvest rates per successful hunter, leading to an average take in 2001. At Yakutat (Fig. 16), there were average numbers of hunters and lower harvest rates per successful hunter, resulting in the second lowest seal harvest on record. Hunters at Yakutat report that the overall size of the seal harvest turns in part on the success of the spring hunt conducted at traditional camps up the bay. Finding common threads in these comparisons is difficult. Overall, it may be that the decline in harvests is associated with declines in the number of hunters on a statewide basis (Table 16), but this association is difficult to clearly support with data at the community level.

For harvests in two regions -- the North Pacific Rim and Kodiak Island -- a longer time series is available, shown as Figures 20 and 22 (struck and lost numbers are not available prior to 1992, so these figures compare only harvest numbers). In the North Pacific Rim, subsistence harvests of harbor seals have been substantially lower during the most recent nine-year survey period compared with harvests recorded prior to 1989, the year of the *Exxon Valdez* oil spill (Fig. 20). Families in Prince William Sound reduced their subsistence activities the year of the spill because of the uncertainties of the health safety of consuming wild foods harvested from oiled areas. Subsistence harvest levels showed signs of some recovery since the spill. In 2001, harvests were relatively larger in Tatitlek and Port Graham compared with recent years, lower in Chenega Bay, and mid-range in Nanwalek. For Kodiak Island villages, the 138 seals harvested in 2001 were substantially fewer than those recorded a decade before -- 478 seals (1982) and 262 seals (1986) (Fig. 22). In this area, harbor seal harvests appear to have been declining during the 1980s, followed by increases again during the 1990s at Old Harbor and Ouzinkie. In other Kodiak Island communities, harvests have remained low and variable during the 1990s.

Figure 26.
Sex Ratios (Males:Females)
of Harbor Seal and Sea Lion Harvests
Reported by Alaska Native Hunters, 1992 - 2001

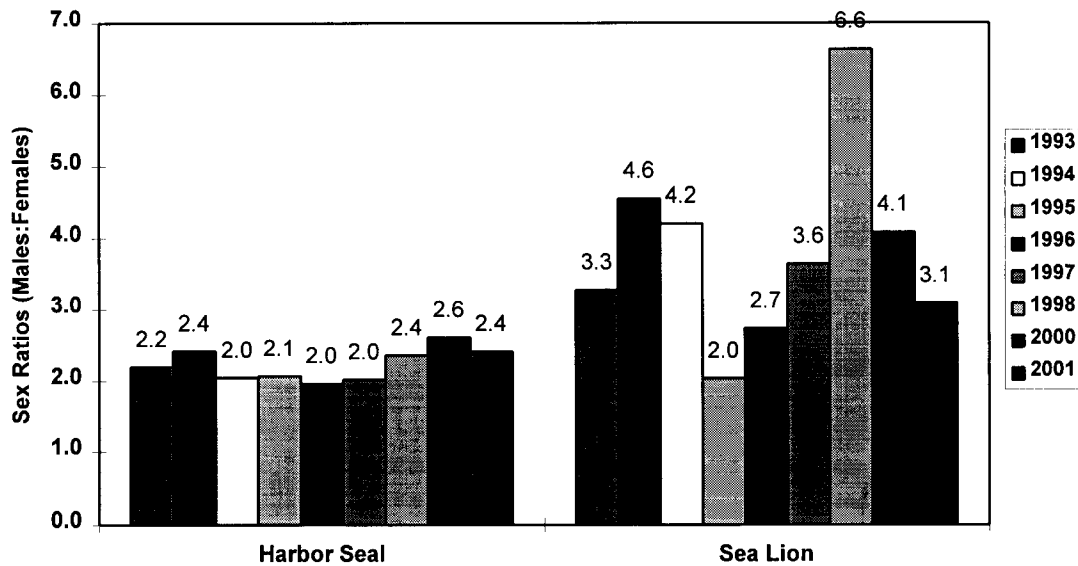
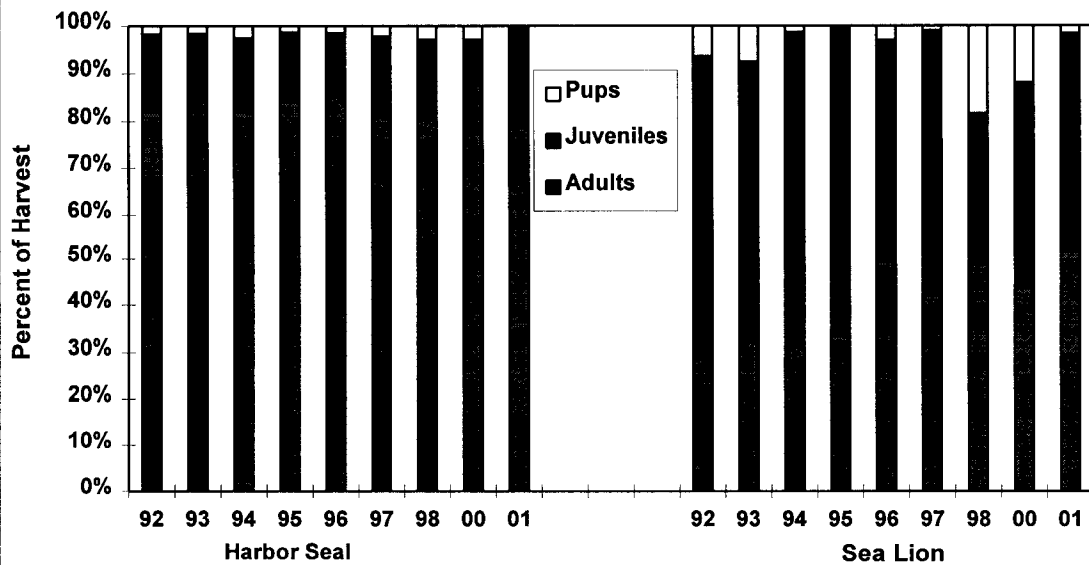


Figure 27.
Age Structure (Pups, Juveniles, Adults)
of Harbor Seal and Sea Lion Harvests
Reported by Alaska Native Hunters, 1992 - 2001



**Figure 28. Percentage of Harbor Seal Harvests
Reported as Male Seals by Hunters, 1992 - 2001**

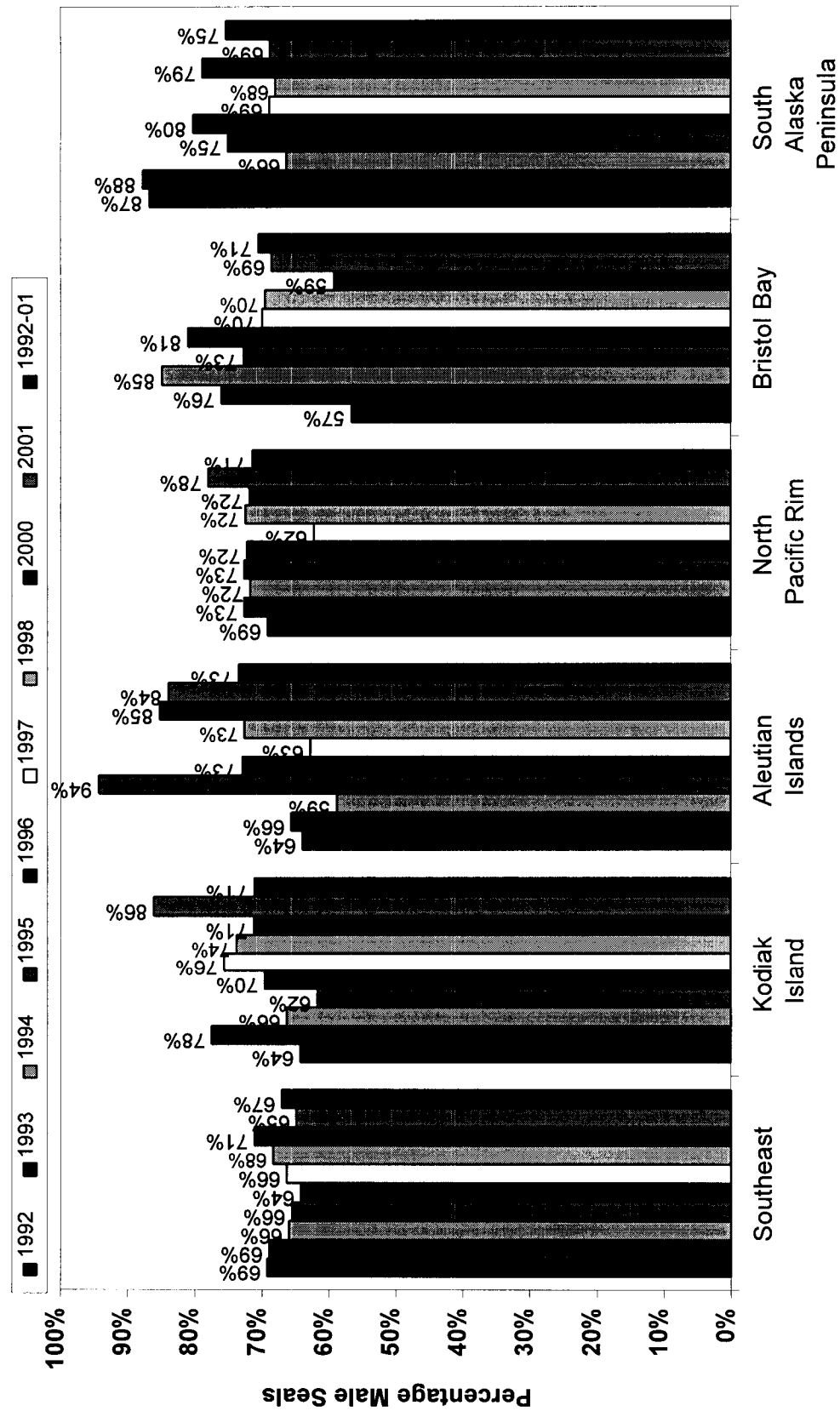


Figure 29. Percentage of Harbor Seal Harvests Reported as Juvenile Seals by Hunters, 1992 - 2001

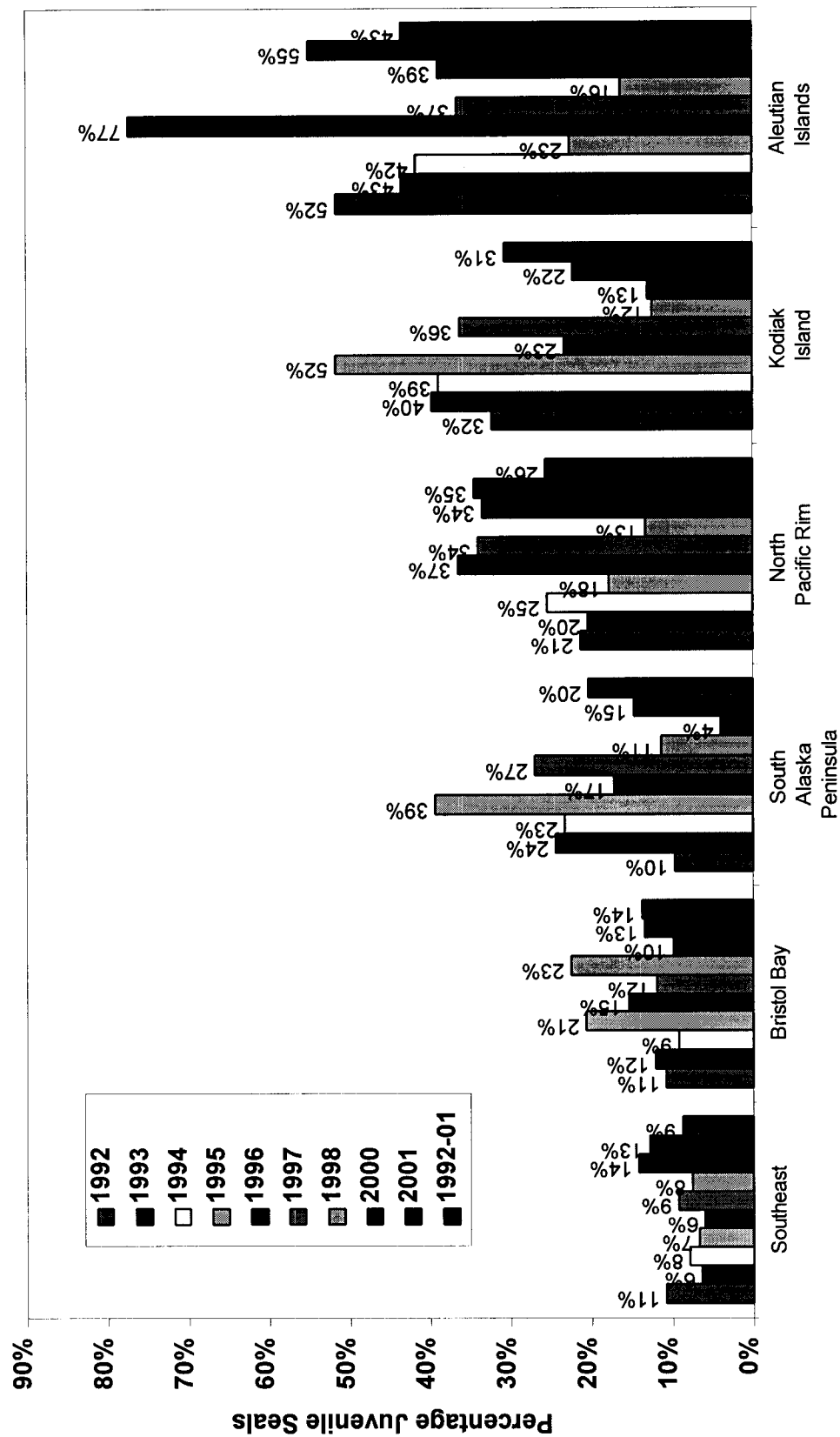


Fig. 30. Adult and Juvenile Harbor Seal Harvests by Month,
January 1992 - December 2001, Southeast Alaska

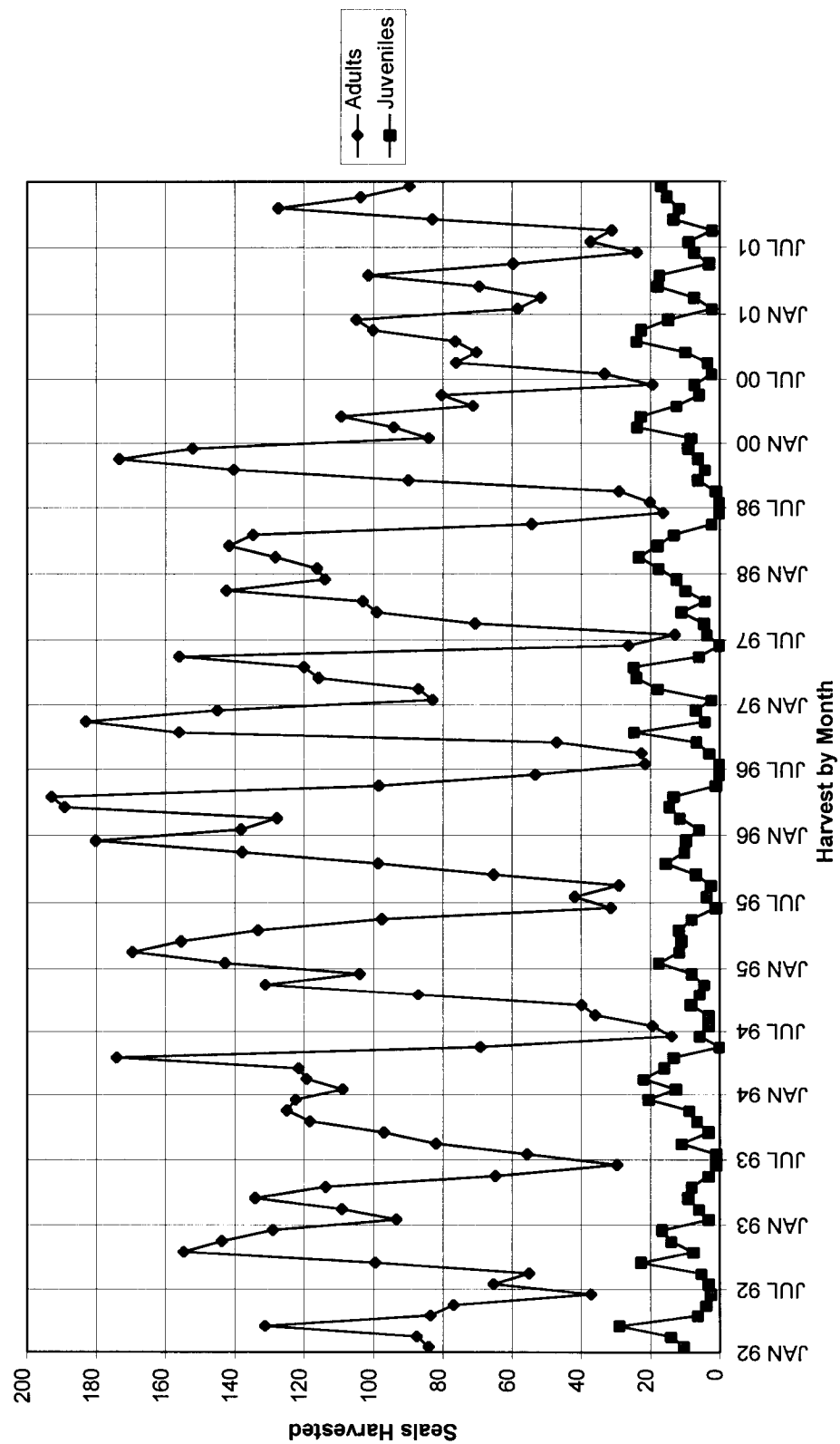


Fig. 31. Adult and Juvenile Harbor Seal Harvests by Month, January 1992 - December 2001, Kodiak Island Region

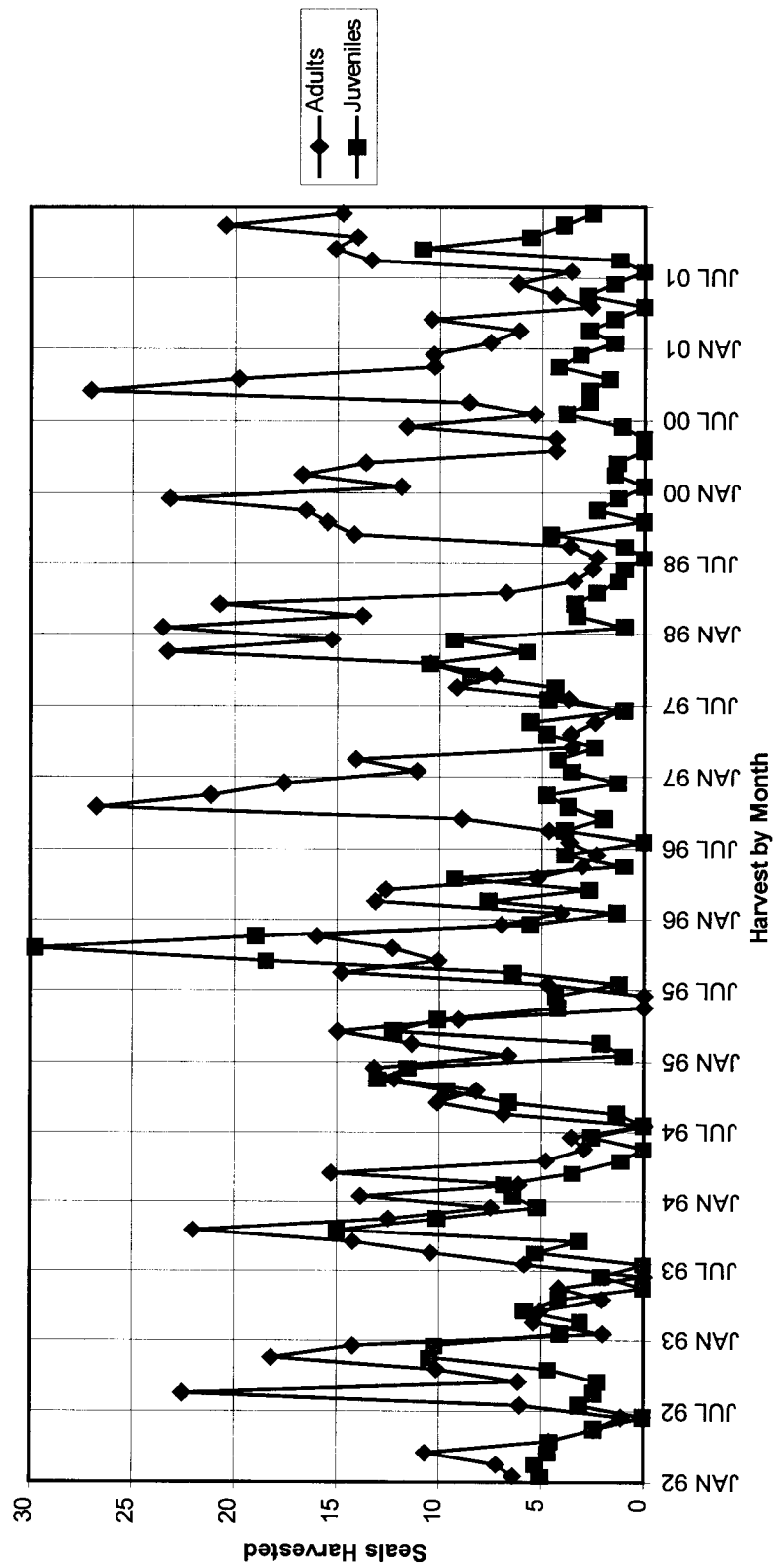
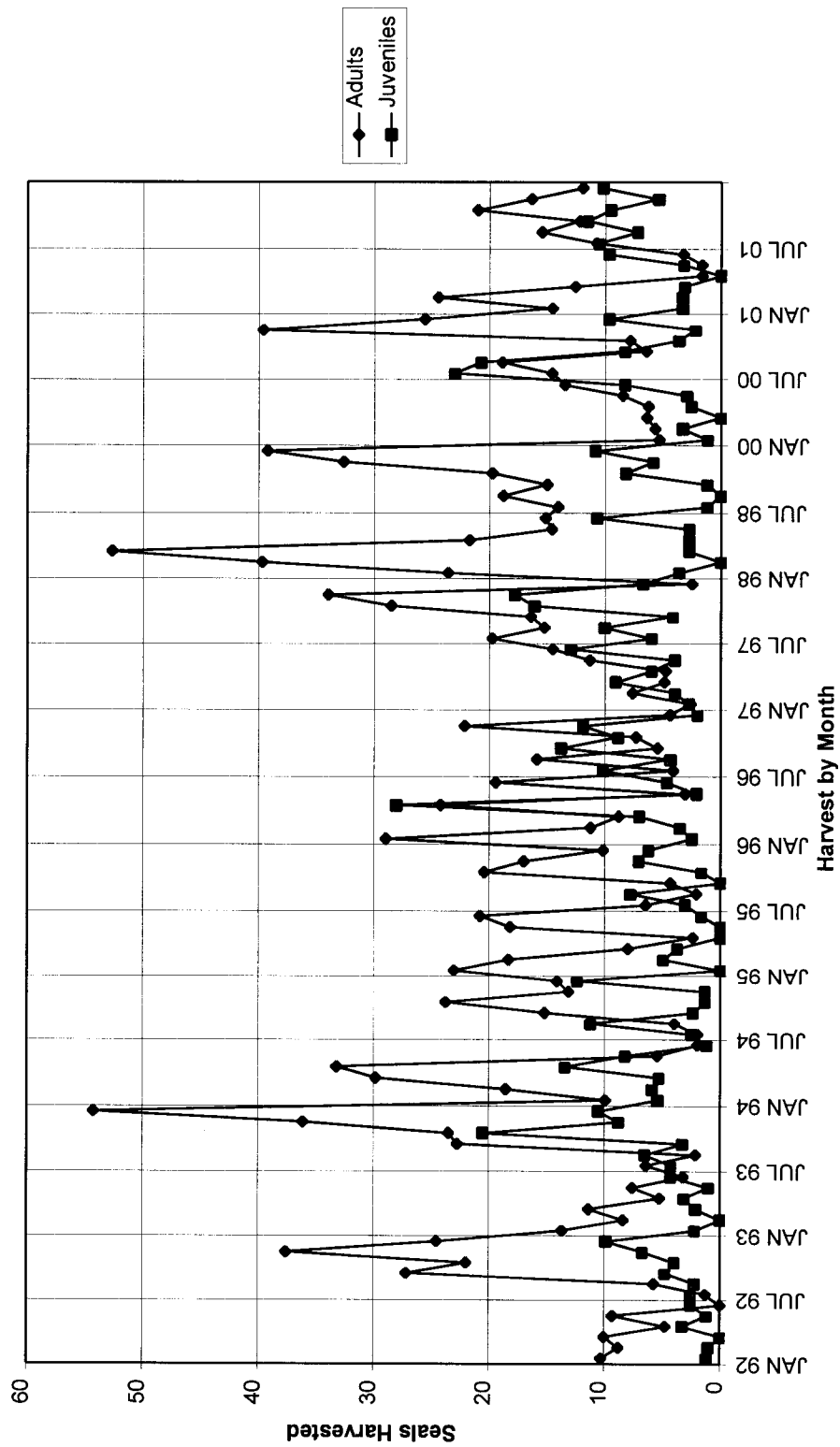


Fig. 32. Adult and Juvenile Harbor Seal Harvests by Month, January 1992 - December 2001, North Pacific Rim Region



The longer time series represented by the North Pacific Rim and Kodiak Island areas provide a cautionary note about interpreting “trends” in subsistence patterns described since 1992, the start of the most recent survey series. Reported harbor seal harvests were substantially higher a decade earlier in the North Pacific Rim and Kodiak Island areas. The pattern of use documented for 1992-2001 in those areas may represent observations at relatively low points of longer-term harvest cycles. The longer time series above may better represent the potential ranges of subsistence takes in these areas. Should conditions return to those during the 1980s, subsistence harvests of harbor seals may increase as well.

In contrast with the declining takes of harbor seals from 1992-2001, there has been remarkable consistency in the reported age and sex composition of the statewide harbor seal harvest. Figures 26 and 27 compare statewide patterns in the age and sex composition of the subsistence harvests of harbor seals since 1992. At the statewide level, hunters consistently have reported harvesting more male than female harbor seals each year. Considering kills of known sex, male to female sex ratios have been similar across survey years for harbor seals -- 2.2 males to 1 female (1992), 2.4 (1993), 2.0 (1994), 2.1 (1995), 2.0 (1996), 2.0 (1997), 2.4 (1998), 2.6 (2000), and 2.4 (2001) (Fig. 26). At the statewide level, age composition also is similar between years (Fig. 27) -- hunters continued to report harvesting primarily adult harbor seals (from 79 to 88 percent of the annual harvest), with smaller proportions of juvenile seals (10 to 21 percent) and pups (1 to 3 percent).

Figures 28 and 29 compare age and sex compositions of harbor seal harvests at the regional level. There is considerable similarity between regions and years for harbor seal sex composition (Fig. 28). Counting harvested animals whose sex was reported between 1992-2001, all regions showed more male seals to female seals harvested -- Southeast (67 percent males), North Pacific Rim (71 percent males), Kodiak Island (71 percent males), South Alaska Peninsula (75 percent males), Aleutian Islands (73

percent males), and North and South Bristol Bay (71 percent males). A number of factors probably contribute to the predominance of males over females in the subsistence harvest of harbor seals across regions and years, as discussed in Wolfe and Mishler (1998). The higher number of males harvested likely reflects the greater availability of males in the groups of animals hunted due to two factors -- sex segregation in seal groups, and female seals being more elusive than male seals when disturbed in a group, presenting comparatively fewer or more difficult targets (see Wolfe and Mishler 1998:60-61; Wolfe et al 1999).

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

Based on hunter reports, the percentages of juveniles in the harvest differed substantially between regions during 1992-2001 (Fig. 29). Of all the seals harvested during 1992-2001 in the Southeast Region, only 9 percent were reported to be juvenile seals. Bristol Bay seal harvests also had a relatively low juvenile composition of 14 percent juvenile seals. Other regions had substantially greater proportions of juvenile seals in their annual harvests, including South Alaska Peninsula (20 percent), North Pacific Rim (26 percent), Kodiak Islands (31 percent), and the Aleutian Islands (43 percent). These age patterns possibly reflect differences in the age compositions of seal

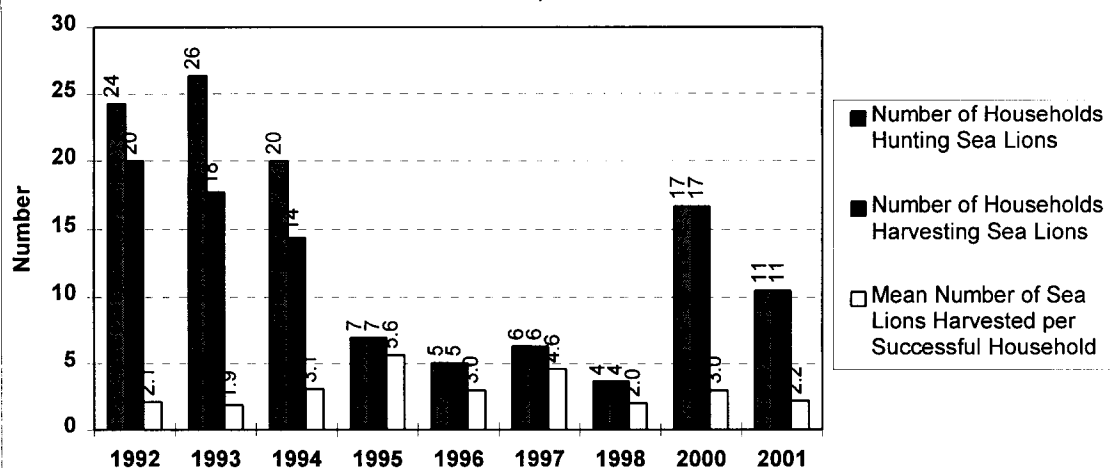
populations accessible to hunters, perhaps due to different population structures in each region. The older ages of harvested seals in the Southeast region may reflect relatively larger and more stable seal populations with proportionately larger older age classes in the population, while the younger ages of seals harvested in other regions may reflect populations which are rebuilding, with proportionately larger young age classes.

As shown in Fig. 29, the reported age compositions of the seal harvests have seen substantial between-year changes for some regions. In 1998 and 2000, the proportions of juvenile seals fell substantially in the Kodiak Islands (to 12 percent and 13 percent) and the South Alaska Peninsula (to 11 percent and 4 percent). In both areas, the lower juvenile proportions resembled those of the Southeast and Bristol Bay regions. In the North Pacific Rim and Aleutian Islands, the juvenile proportions fell markedly in 1998, but rose again in 2000 and 2001 to the relatively higher levels of previous years.

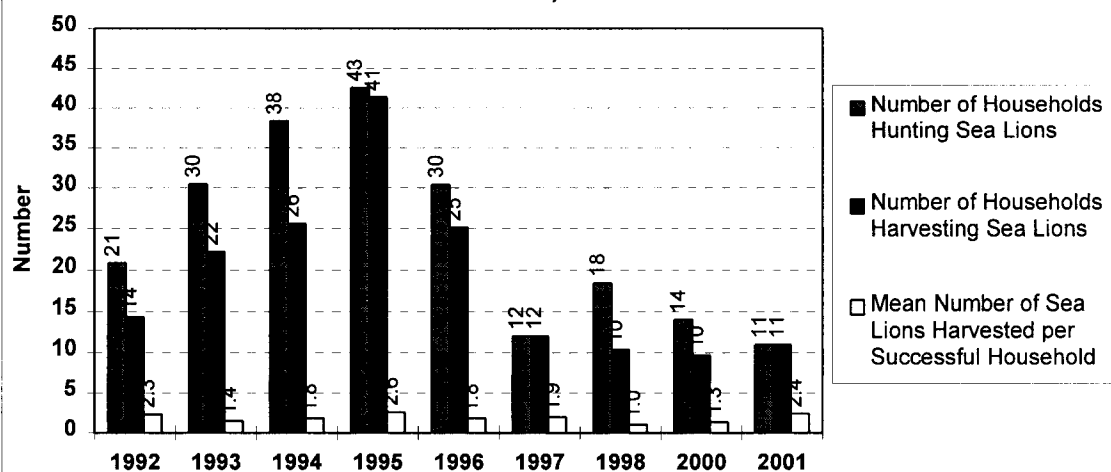
The reasons for these dramatic single-year changes in age composition are not known. If the age composition of the harvest reflects the age structures of local seal populations, which is speculation at this time, then at least two potential explanations present themselves. One interpretation might be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

It is beyond the scope of this research to test for the likelihood of these or other potential explanations. However, the changes in age composition over time in three regions are illustrated in Figures 30 to 32, which present adult and juvenile harbor seal harvests by month from January 1992 through December 2001 for the Southeast, Kodiak Island, and North Pacific Rim regions (no data are available for 1999). This time series does not arbitrarily divide years between December 31 and January 1, as in Fig. 29, but allows for a combination of the calendar years to better visualize trends. A comparison of the Southeast harvest (Fig. 30) with the Kodiak harvest (Fig. 31) clearly illustrates the difference in the proportion of juveniles in the harvests – in Southeast Alaska juveniles are a relatively lower part of the harvest compared with Kodiak Island. The Kodiak Island harvest time series (Fig. 31) suggests that, compared with the previous several years, there were lower juvenile harvests relative to adults in July 1996 through June 1997 as well as November 1997 through December 1998 and January 2000 through December 2000. By contrast, in the neighboring North Pacific Rim (see Fig. 31), juvenile harvests were high relative to adults in July 1996 through 1997, low from January 1998 through December, and high from January through October 2000. In the Southeast series, the proportion of juveniles increased during the last two years (2000 and 2001). Such complex patterning of age composition of harbor seal harvests over time and across regions begs future explanation.

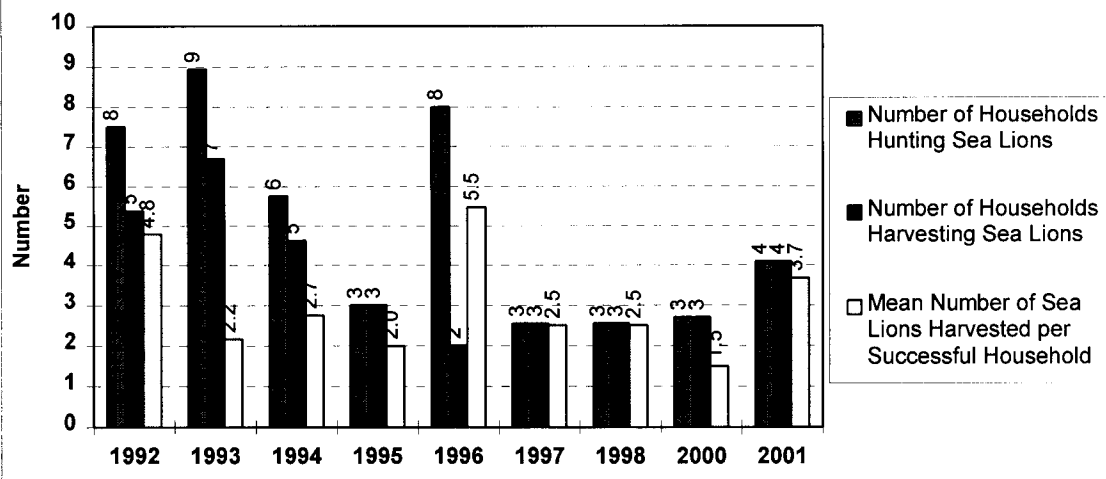
**Fig. 33. Sea Lion Hunters and Success Rates,
Unalaska, 1992 - 2001**



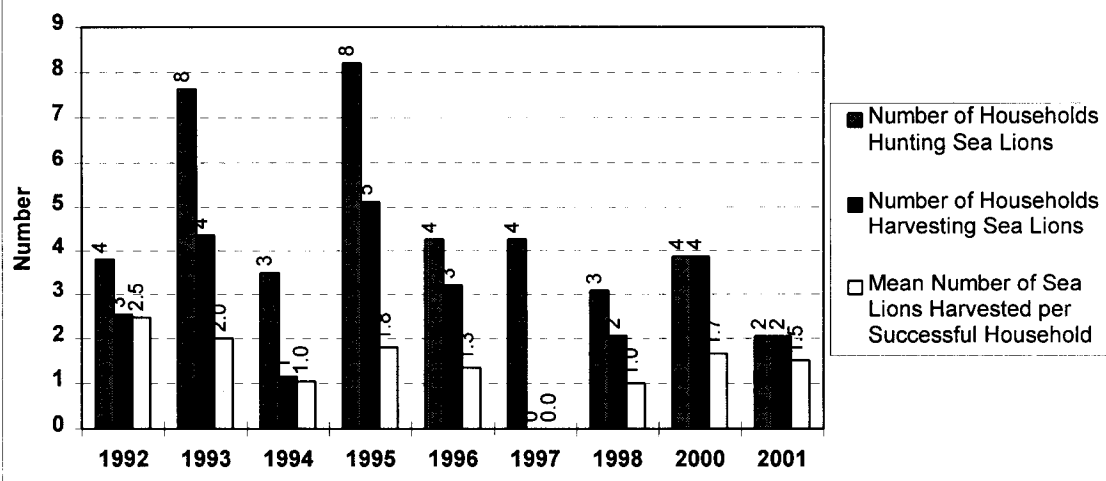
**Fig. 34. Sea Lion Hunters and Success Rates,
Old Harbor, 1992 - 2001**



**Fig. 35. Sea Lion Hunters and Success Rates,
Akutan, 1992 - 2001**



**Fig. 36. Sea Lion Hunters and Success Rates,
Nanwalek, 1992 - 2001**



Sea Lion Subsistence Trends, 1992-2001

Total subsistence takes of sea lions by Alaska Natives sharply declined from 1992 to 1995, with takes leveling off between 1996 to 2001 (Fig 10). The lowest recorded sea lion take (164 animals) occurred in 1997 and 2000. The subsistence take of 198 sea lions in 2001 was 36 percent of the subsistence take in 1992 (549 animals).

At the regional level, notable declines in sea lion takes have been reported by hunters from the Pribilof Islands (see Fig. 13), where total sea lion takes fell from 297 animals (1992) to 38 animals (2001), a decline of 87 percent. The sea lion take in the Aleutian Islands area increased to 98 animals in 2001 from a low of 37 animals in 1998, but was below the 135 animals taken in 1992. In Kodiak Island areas, the sea lion take in 2001 (35 animals) represented a 39 percent decrease from 1992 (58 animals) (Fig. 13).

In the North Pacific Rim and Kodiak Island regions, longer time series are available (see Figs. 21 and 23). Documented sea lion harvests in Tatitlek and Chenega Bay ranged as high as 27 animals in each place during the 1980s. In 2001, six sea lions were harvested in Tatitlek, while in Chenega Bay one sea lion was harvested (Fig. 21). Harvests at Nanwalek and Port Graham show substantial yearly variation (between one and nineteen animals). Four sea lions were harvested between the two communities in 2001. On Kodiak Island, sea lion harvests declined substantially during the 1980s – 232 (1982), 202 (1986) and 37 (1989) – but rebounded again to 107 in 1995 because of increased harvests at Old Harbor and Ouzinkie. Kodiak Island harvests were 30 animals in 2001, with none reported for three of six villages (Fig. 23). The longer time series indicate that sea lion harvests have been declining in the North Pacific Rim and Kodiak Island areas, with the declines commencing during the 1980s for Kodiak Island communities.

Declines in sea lion takes documented over the last seven years appear to be associated with drops in hunter numbers, as illustrated with four communities in Figs.

33-36, which depict annual changes in three factors: (1) the number of households hunting sea lions, (2) the number of households harvesting sea lions, and (3) the mean number of sea lions harvested per successful household. As shown in Fig. 33, there was a substantial decrease in the number of households hunting sea lions at Unalaska (24 to 4 households from 1992 to 1998), while the number of households successfully harvesting sea lions declined from 20 to 4 households. While hunters declined during this period, there were no clear indications of declining success rates for households that did hunt – annual mean harvests per household ranged from 1.9 to 5.6 sea lions per successful hunter at Unalaska. In 2000 and 2001, there were increases in the number of households with hunters (17 and 11 households, respectively), all successful in harvesting sea lions. The mean harvests per successful household were 3.0 sea lions (2000) and 2.2 sea lions (2001).

Hunting patterns at Old Harbor display somewhat different trends (Fig. 34). At Old Harbor, there were increasing numbers of households hunting sea lions from 1992 to 1995 (from 21 households to 43 households), followed by a decrease to 12 households by 1997. In 2001 there were 11 successful sea lion hunters at Old Harbor, harvesting 26 animals. Mean harvests per successful hunter (2.4 animals) in 2001 was toward the upper end of previous ranges (1.0 to 2.6 animals).

The pattern of hunting factors at Akutan is shown in Fig. 35. Numbers of successful sea lion hunting households have ranged between three and seven since 1992. Mean harvests per successful hunter have ranged from 1.5 to 4.8 sea lions. Harvests (15 animals) and success rates (3.7 animals per successful hunter) were relatively high in 2001. The pattern at Nanwalek is shown in Fig. 36. Numbers of successful hunting households have ranged between two and five since 1992. Mean harvests per successful hunter have ranged from none to 2.5 sea lions. In 2001, harvests (4 animals) and success rates (1.5 animals per successful hunter) were toward the middle of the ranges at Nanwalek.

As with seal hunting, there are probably a variety of local factors related to the year-to-year changes in the number of households hunting sea lions in particular communities, including seasonal hunting conditions, local food needs, and personal circumstances of hunters. It is likely that the declines in the numbers of sea lion hunters in many communities are because sea lions are increasingly harder to find in local hunting areas and consequently more difficult and expensive to hunt. As shown in Table 18, 67.3 percent of the Aleutian Island hunters and 55.3 percent of Kodiak Island hunters reported taking “more time and effort” in hunting sea lions in 2000 compared with five years ago. As sea lions become scarcer in a community’s hunting area, an increasing number of hunters in the community probably choose to stop hunting them. While the hunters that continue to hunt appear to maintain annual harvest rates similar to past years, hunters must invest more time and effort in pursuit of the sea lions harvested.

In addition to these factors, it is quite likely that some sea lion hunters have chosen to reduce their hunting activity because of perceived problems with sea lion populations. Hunters commonly are astute observers of the condition and health of local sea lion stocks. During the course of this study, many key respondents have reported concerns about the health of local sea lion populations used by their communities. Also, the general decline of sea lion populations in the Gulf of Alaska and Aleutian-Pribilof areas has been publicized widely. Some portion of the decline in hunting effort probably reflects hunters choosing not to hunt in order to help conserve the sea lion population.

Table 19
Subsistence Harbor Seal Takes by Alaska Natives by Region, 1992 - 2001

Region	1992			1993			1994			1995			1996		
	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
Southeast Alaska	1,476.8	189.5	1,666.2	1,425.0	190.0	1,615.0	1,348.5	151.4	1,499.9	1,719.1	170.9	1,890.0	1,641.6	216.3	1,857.8
North Pacific Rim	377.6	33.4	411.0	412.3	38.5	450.8	411.2	56.8	468.0	252.1	11.7	263.9	289.0	22.1	311.1
U. Kenai-Cook Inlet	51.6	0.0	51.6	49.2	5.6	54.8	16.2	0.0	16.2	3.7	0.0	3.7	64.3	8.8	73.1
Kodiak Island	225.5	13.1	238.6	171.7	20.1	191.8	168.2	3.6	171.7	223.0	9.2	232.2	185.2	4.9	190.1
S. AK Peninsula	115.5	13.1	128.6	100.0	23.1	123.1	98.6	11.1	109.8	117.0	11.1	128.0	86.3	5.0	91.3
Aleutian Islands	94.3	21.4	115.7	85.0	15.4	100.4	124.9	22.6	147.5	86.9	9.7	96.6	55.0	15.2	70.2
Pribilof Islands	2.3	1.2	3.5	2.3	1.2	3.5	7.3	0.0	7.3	2.5	0.0	2.5	0.0	0.0	0.0
South Bristol Bay	99.0	68.6	167.6	73.6	57.3	130.9	121.6	59.3	180.9	68.3	28.3	96.6	63.8	44.2	108.0
North Bristol Bay	58.4	13.2	71.6	46.1	20.0	66.1	16.2	3.3	19.5	25.9	2.4	28.3	29.6	10.0	39.6
Alaska Total	2,501.0	353.4	2,854.4	2,365.3	371.1	2,736.4	2,312.8	308.0	2,620.8	2,498.5	243.3	2,741.8	2,414.7	326.6	2,741.3
Region	1997			1998			2000			2001					
	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
Southeast Alaska	1,343.4	224.1	1,567.4	1,414.0	202.4	1,616.4	1,209.7	151.4	1,361.1	1,019.9	155.9	1,175.7			
North Pacific Rim	295.0	12.8	307.7	393.5	41.4	434.9	289.9	29.8	319.7	279.9	20.1	300.0			
U. Kenai-Cook Inlet	101.7	8.8	110.5	79.2	13.5	92.7	79.2	13.5	92.7	91.2	2.7	93.9			
Kodiak Island	189.8	18.3	208.2	174.0	3.7	177.7	185.9	7.3	193.2	155.6	4.8	160.4			
S. AK Peninsula	68.3	12.1	80.4	79.9	7.5	87.4	65.4	18.4	83.8	68.7	16.3	85.1			
Aleutian Islands	70.5	6.3	76.9	45.8	3.8	49.6	79.0	10.5	89.5	120.1	12.5	132.6			
Pribilof Islands	0.0	0.0	0.0	4.6	0.0	4.6	0.0	0.0	0.0	0.0	1.0	1.0			
South Bristol Bay	107.8	66.3	174.1	62.2	34.3	96.5	55.4	17.6	73.0	52.9	19.8	72.7			
North Bristol Bay	18.8	2.1	20.9	33.2	3.6	36.8	10.4	1.1	11.6	8.8	1.2	10.0			
Alaska Total	2,195.3	350.8	2,546.2	2,286.4	310.3	2,596.7	1,974.8	249.6	2,224.4	1,797.1	234.3	2,031.4			

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2002.

Table 20
Subsistence Sea Lion Takes by Alaska Natives by Region, 1992 - 2001

Region	Struck 1992		Struck 1993		Struck 1994		Struck 1995		Struck 1996	
	Harvest and Lost	Take	Harvest and Lost	Take	Harvest and Lost	Take	Harvest and Lost	Take	Harvest and Lost	Take
Southwest Alaska	5.2	1.3	6.4	0.0	1.1	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	13.5
U. Kenai-Cook Inlet	5.7	3.8	9.5	7.8	3.3	11.1	1.4	0.0	1.4	3.3
Kodiak Island	41.5	16.3	57.8	41.5	16.9	58.4	57.1	4.2	61.3	60.2
S. AK Peninsula	2.4	0.0	2.4	4.6	1.2	5.7	4.6	1.1	5.7	5.0
Aleutian Islands	104.3	30.9	135.2	99.0	24.8	123.8	101.8	20.5	122.3	57.9
Pribilof Islands	176.6	120.2	296.8	165.4	80.0	245.4	149.8	43.5	193.3	46.4
South Bristol Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
North Bristol Bay	7.8	0.0	7.8	3.3	3.3	6.5	1.2	0.0	1.2	0.0
Alaska Total	368.5	178.9	547.4	347.8	139.3	487.1	336.0	80.1	416.1	186.2
Region	1997		1998		2000		2001			
Southwest Alaska	0.0	0.0	0.0	3.3	4.4	7.6	2.3	0.0	2.3	0.0
North Pacific Rim	4.5	1.4	5.8	20.0	8.5	28.5	11.7	5.0	16.7	14.7
U. Kenai-Cook Inlet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
Kodiak Island	33.3	4.9	38.2	14.5	3.3	17.8	18.5	0.0	18.5	35.0
S. AK Peninsula	8.3	0.0	8.3	9.2	0.0	9.2	13.8	0.0	13.8	11.6
Aleutian Islands	50.7	1.3	51.9	31.6	5.5	37.0	71.2	4.8	76.0	97.7
Pribilof Islands	45.5	10.4	55.9	52.7	25.4	78.1	23.8	12.5	36.3	38.0
South Bristol Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
North Bristol Bay	3.6	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alaska Total	145.7	17.9	163.7	131.2	47.0	178.2	141.3	22.3	163.6	198.4

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2002.

Table 21
Subsistence Harbor Seal Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2001

Community	Struck and Lost Take			Struck and Lost Take			Struck and Lost Take		
	Harvest	1992		Harvest	1993		Harvest	1994	
SOUTHEAST ALASKA									
Angeon	125.1	28.9	154.0	56.6	9.9	66.5	66.9	21.1	88.0
Craig	74.2	0.0	74.2	51.1	9.8	60.9	42.7	6.6	49.3
Haines	30.5	7.9	38.4	23.0	2.3	25.3	39.3	2.2	41.5
Hoonah	350.2	24.8	375.0	324.4	35.8	360.2	240.7	15.0	255.8
Hydaburg	30.0	2.1	32.1	14.0	0.0	14.0	10.0	0.0	10.0
Juneau	122.6	7.6	130.2	59.0	21.6	80.6	78.6	13.5	92.1
Kake	173.9	12.3	186.2	100.8	15.2	115.9	99.3	7.4	106.6
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
Klawock	39.0	1.4	40.3	39.8	0.0	39.8	71.1	0.0	71.1
Klukwan	8.0	2.0	10.0	1.2	0.0	1.2	3.8	1.3	5.0
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
Petersburg	22.4	2.6	25.0	4.5	4.5	9.0	15.2	1.3	16.4
Saxman	22.2	1.2	23.5	5.6	0.0	5.6	16.5	0.0	16.5
Sitka	124.7	21.4	146.1	109.3	20.6	129.9	110.5	20.1	130.6
Wrangell	6.0	8.0	14.0	19.5	9.0	28.5	101.0	27.0	128.0
Yakutat	248.0	61.3	309.3	568.4	57.4	625.8	417.1	35.0	452.1
NORTH PACIFIC RIM									
Chenega Bay	42.6	2.3	44.9	60.8	2.2	63.0	42.0	3.9	45.9
Cordova	103.8	8.8	112.5	147.4	5.5	152.9	135.8	9.1	144.9
Nanwalek	27.9	0.0	27.9	33.9	3.2	37.1	29.0	4.6	33.7
Port Graham	36.2	4.7	40.8	30.6	3.2	33.7	15.5	5.2	20.7
Seldovia	12.4	0.0	12.4	7.9	4.9	12.8	8.0	0.0	8.0
Seward	2.0	0.0	2.0	0.0	0.0	0.0	5.0	0.0	5.0
Tatitlek	152.9	17.7	170.6	110.8	15.5	126.4	145.9	30.9	176.8
Valdez	0.0	0.0	0.0	21.0	4.0	25.0	30.0	3.0	33.0
UPPER KENAI-COOK INLET									
Anchorage	17.1	0.0	17.1	24.4	5.6	30.0	4.2	0.0	4.2
Homer	--	--	--	4.8	0.0	4.8	12.0	0.0	12.0
Kenai	33.3	0.0	33.3	20.0	0.0	20.0	--	--	--
Tyonek	1.1	0.0	1.1	--	--	--	--	--	--
KODIAK ISLAND									
Akhiok	20.0	3.0	23.0	13.3	0.0	13.3	14.5	0.0	14.5
Karluk	16.5	1.5	18.0	10.0	1.3	11.3	7.5	0.0	7.5
Kodiak City	36.9	0.0	36.9	6.0	1.0	7.0	7.6	0.0	7.6
Larsen Bay	6.5	0.0	6.5	7.7	5.5	13.2	13.4	2.2	15.7
Old Harbor	86.8	5.3	92.1	67.6	2.7	70.3	83.7	1.3	85.0
Ouzinkie	21.8	1.1	23.0	41.2	8.7	49.8	33.4	0.0	33.4
Port Lions	36.9	2.2	39.1	26.0	1.0	27.0	8.0	0.0	8.0

Table 21 (Continued)
Subsistence Harbor Seal Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2001

	Struck Harvest and Lost Take			Struck Harvest and Lost Take			Struck Harvest and Lost Take		
Community	1995			1996			1997		
SOUTHEAST ALASKA									
Angoon	80.9	9.7	90.6	71.0	2.0	73.0	51.0	7.1	58.1
Craig	69.4	13.6	83.1	48.2	8.0	56.3	62.0	7.5	69.5
Haines	24.0	9.0	33.0	41.1	3.4	44.6	36.8	10.5	47.3
Hoonah	236.6	19.7	256.3	359.7	48.6	408.3	143.8	9.9	153.8
Hydaburg	6.5	0.0	6.5	15.0	0.0	15.0	11.5	0.0	11.5
Juneau	42.9	1.3	44.2	32.8	1.3	34.1	99.0	0.0	99.0
Kake	72.0	1.5	73.5	86.4	0.0	86.4	68.4	7.6	76.0
Kasaan	--	--	--	--	--	--	--	--	--
Ketchikan	46.4	0.0	46.4	25.0	0.0	25.0	27.4	4.3	31.8
Klawock	263.8	0.0	263.8	69.8	0.0	69.8	94.0	0.0	94.0
Klukwan	35.2	6.4	41.6	6.3	0.0	6.3	1.1	0.0	1.1
Metlakatla	--	--	--	--	--	--	--	--	--
Pelican	13.5	0.0	13.5	15.4	0.0	15.4	14.5	0.0	14.5
Petersburg	13.6	1.1	14.7	19.5	2.4	21.9	11.8	4.3	16.2
Saxman	15.9	0.0	15.9	4.9	0.0	4.9	11.0	0.0	11.0
Sitka	93.8	6.3	100.0	126.8	4.1	130.9	150.6	3.7	154.3
Wrangell	89.3	22.8	112.0	79.3	22.2	101.5	68.8	29.2	98.0
Yakutat	615.5	79.6	695.1	640.3	124.1	764.5	491.5	139.9	631.5
NORTH PACIFIC RIM									
Chenega Bay	44.4	1.6	46.0	16.0	3.0	19.0	25.7	0.0	25.7
Cordova	83.4	2.0	85.4	122.2	8.6	130.8	120.8	0.0	120.8
Nanwalek	23.6	0.0	23.6	22.4	0.0	22.4	20.2	0.0	20.2
Port Graham	23.0	0.0	23.0	15.5	2.2	17.7	15.8	3.2	19.0
Seldovia	4.0	0.0	4.0	3.0	0.0	3.0	2.8	2.8	5.5
Seward	10.9	5.5	16.4	5.6	0.0	5.6	0.0	0.0	0.0
Tatitlek	46.1	2.6	48.7	90.8	3.8	94.6	97.2	6.8	104.0
Valdez	16.8	0.0	16.8	13.5	4.5	18.0	12.5	0.0	12.5
UPPER KENAI-COOK INLET									
Anchorage	3.7	0.0	3.7	28.9	6.2	35.1	23.6	1.2	24.8
Homer	0.0	0.0	0.0	10.5	1.5	12.0	41.1	2.6	43.7
Kenai	--	--	--	22.9	1.1	24.0	35.0	5.0	40.0
Tyonek	--	--	--	2.0	0.0	2.0	2.0	0.0	2.0
KODIAK ISLAND									
Akhiok	5.0	0.0	5.0	12.0	1.0	13.0	7.9	0.0	7.9
Karluk	28.1	6.8	34.9	15.1	0.0	15.1	19.0	0.0	19.0
Kodiak City	8.8	0.0	8.8	9.0	0.0	9.0	13.0	0.0	13.0
Larsen Bay	11.0	0.0	11.0	15.0	0.0	15.0	9.8	4.2	13.9
Old Harbor	112.0	2.4	114.4	113.5	1.3	114.8	80.0	4.8	84.8
Ouzinkie	56.1	0.0	56.1	16.7	2.6	19.3	55.2	9.4	64.6
Port Lions	2.0	0.0	2.0	4.0	0.0	4.0	5.0	0.0	5.0

Table 21 (Continued)
Subsistence Harbor Seal Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2001

Community	Struck Harvest and Lost Take			Struck Harvest and Lost Take			Struck Harvest and Lost Take		
	1998			2000			2001		
SOUTHEAST ALASKA									
Angoon	53.0	2.0	55.0	64.3	6.1	70.4	85.0	5.2	90.2
Craig	52.7	5.2	57.9	35.0	3.0	38.0	54.0	4.0	58.0
Haines	30.7	10.6	41.3	17.5	0.0	17.5	19.3	1.1	20.4
Hoonah	169.7	19.8	189.6	147.9	16.0	163.9	143.4	13.2	156.7
Hydaburg	14.4	0.0	14.4	14.4	0.0	14.4	14.4	0.0	14.4
Juneau	90.4	15.3	105.7	59.9	3.5	63.4	29.9	1.6	31.5
Kake	123.0	6.1	129.1	101.7	3.6	105.3	85.6	10.7	96.4
Kasaan	--	--	--	--	--	--	--	--	--
Ketchikan	26.7	0.0	26.7	111.7	0.0	111.7	12.7	0.0	12.7
Klawock	83.0	0.0	83.0	67.1	0.0	67.1	71.5	0.0	71.5
Klukwan	10.5	0.0	10.5	18.0	0.0	18.0	0.0	0.0	0.0
Metlakatla	--	--	--	--	--	--	--	--	--
Pelican	15.8	2.4	18.2	7.5	0.0	7.5	9.0	0.0	9.0
Petersburg	23.9	9.3	33.2	20.7	7.2	27.9	16.0	22.0	38.0
Saxman	19.6	0.0	19.6	45.6	1.9	47.5	12.9	0.0	12.9
Sitka	237.6	29.4	267.0	276.8	41.1	317.8	241.3	32.8	274.1
Wrangell	174.0	30.0	204.0	28.5	12.0	40.5	16.0	29.0	45.0
Yakutat	289.0	72.3	361.3	193.3	56.8	250.1	208.8	36.2	245.0
NORTH PACIFIC RIM									
Chenega Bay	15.6	0.0	15.6	15.0	0.0	15.0	13.0	0.0	13.0
Cordova	79.1	9.3	88.3	87.8	14.0	101.8	102.7	5.8	108.5
Nanwalek	30.9	1.0	31.9	52.9	3.9	56.8	42.3	1.2	43.5
Port Graham	52.3	3.6	55.9	40.2	1.7	41.9	39.4	8.3	47.6
Seldovia	3.0	0.0	3.0	2.0	0.0	2.0	3.0	0.0	3.0
Seward	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	0.0
Tatitlek	171.1	19.2	190.2	46.3	1.9	48.2	61.6	4.7	66.3
Valdez	41.7	8.3	50.0	41.7	8.3	50.0	18.0	0.0	18.0
UPPER KENAI-COOK INLET									
Anchorage	43.8	7.5	51.3	43.8	7.5	51.3	45.3	2.7	48.0
Homer	22.8	6.0	28.8	22.8	6.0	28.8	21.0	0.0	21.0
Kenai	12.6	0.0	12.6	12.6	0.0	12.6	24.9	0.0	24.9
Tyonek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KODIAK ISLAND									
Akhiok	7.3	0.0	7.3	17.6	0.0	17.6	7.2	0.0	7.2
Karluk	11.0	0.0	11.0	19.5	1.5	21.0	8.3	0.0	8.3
Kodiak City	11.0	0.0	11.0	21.6	4.8	26.4	17.5	0.0	17.5
Larsen Bay	1.7	0.0	1.7	18.6	0.0	18.6	9.0	1.1	10.2
Old Harbor	55.1	1.1	56.2	59.1	0.0	59.1	71.3	0.0	71.3
Ouzinkie	82.0	2.5	84.5	43.0	1.0	44.0	33.4	2.6	36.0
Port Lions	6.0	0.0	6.0	6.4	0.0	6.4	8.8	1.1	9.9

Table 22
Subsistence Harbor Seal Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2001

Community	Struck Harvest and Lost Take			Struck Harvest and Lost Take			Struck Harvest and Lost Take		
	1992			1993			1994		
SOUTH ALASKA									
PENINSULA									
Chignik Bay	2.4	1.2	3.6	6.3	5.0	11.3	3.4	0.0	3.4
Chignik Lagoon	4.0	0.0	4.0	4.3	1.1	5.3	0.0	1.0	1.0
Chignik Lake	8.3	2.1	10.3	15.2	5.5	20.8	20.8	1.3	22.1
False Pass	18.0	0.0	18.0	19.0	0.0	19.0	12.6	2.1	14.7
Ivanof Bay	10.0	1.0	11.0	16.3	4.7	21.0	12.0	1.3	13.3
King Cove	26.0	6.7	32.7	12.8	3.5	16.3	20.9	1.1	22.0
Nelson Lagoon	0.0	0.0	0.0	--	--	--	--	--	--
Perryville	8.9	2.2	11.1	12.8	2.1	15.0	21.1	0.0	21.1
Sand Point	37.9	0.0	37.9	13.3	1.2	14.4	7.8	4.3	12.1
ALEUTIAN ISLANDS									
Akutan	12.9	4.3	17.1	15.6	4.5	20.1	13.8	3.5	17.3
Atka	28.6	9.9	38.5	32.7	0.0	32.7	73.7	8.7	82.3
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
PRIBILOF ISLANDS									
St. George	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
SOUTH BRISTOL BAY									
Egegik	3.3	14.3	17.7	7.7	3.3	11.0	12.8	0.0	12.8
King Salmon	10.2	0.0	10.2	21.3	10.7	32.0	17.0	4.5	21.5
Levelock	10.8	0.0	10.8	2.7	5.4	8.1	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
Pilot Point	5.4	4.3	9.7	2.2	0.0	2.2	3.1	0.0	3.1
Port Heiden	40.5	36.0	76.5	30.7	19.9	50.6	63.0	45.3	108.3
South Naknek	2.3	6.9	9.2	6.4	18.0	24.4	4.4	1.1	5.5
NORTH BRISTOL BAY									
Aleknagik	0.0	3.6	3.6	0.0	0.0	0.0	0.0	3.3	3.3
Clark's Point	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
Manokotak	4.9	3.8	8.7	3.2	0.0	3.2	0.0	0.0	0.0
Togiak	24.3	2.0	26.3	24.9	15.8	40.7	0.0	0.0	0.0
Twin Hills	--	--	--	--	--	--	--	--	--

Table 22 (Continued)
Subsistence Harbor Seal Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2001

	Struck			Struck			Struck		
	Harvest	and Lost	Take	Harvest	and Lost	Take	Harvest	and Lost	Take
Community	1995			1996			1997		
SOUTH ALASKA									
PENINSULA									
Chignik Bay	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0
Chignik Lagoon	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	2.7
Chignik Lake	3.2	1.1	4.3	3.5	0.0	3.5	2.2	1.1	3.3
False Pass	25.9	1.2	27.1	13.9	0.0	13.9	8.0	0.0	8.0
Ivanof Bay	18.7	2.7	21.3	13.2	0.0	13.2	9.0	1.8	10.8
King Cove	49.0	3.0	52.0	14.0	5.0	19.0	16.9	2.1	19.1
Nelson Lagoon	--	--	--	--	--	--	--	--	--
Perryville	11.0	3.1	14.1	20.5	0.0	20.5	21.7	5.7	27.4
Sand Point	9.2	0.0	9.2	20.2	0.0	20.2	9.1	0.0	9.1
ALEUTIAN ISLANDS									
Akutan	7.0	0.0	7.0	8.0	7.0	15.0	14.0	3.8	17.8
Atka	42.5	0.0	42.5	22.7	2.2	24.8	26.0	1.5	27.5
Nikolski	0.0	0.0	0.0	4.0	1.0	5.0	4.0	1.0	5.0
Unalaska	37.4	9.7	47.1	20.3	5.1	25.4	26.5	0.0	26.5
PRIIBILOF ISLANDS									
St. George	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
St. Paul	2.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
SOUTH BRISTOL BAY									
Egegik	1.4	0.0	1.4	2.8	0.0	2.8	1.6	0.0	1.6
King Salmon	13.0	3.0	16.0	9.5	2.4	11.9	9.7	0.0	9.7
Levelock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naknek	34.8	15.3	50.2	16.2	7.5	23.7	24.8	6.5	31.2
Pilot Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Port Heiden	17.0	10.0	27.0	34.3	34.3	68.6	69.2	50.0	119.2
South Naknek	2.1	0.0	2.1	1.0	0.0	1.0	2.5	9.8	12.3
NORTH BRISTOL BAY									
Aleknagik	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2
Clark's Point	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3
Dillingham	13.3	0.0	13.3	0.0	0.0	0.0	1.2	0.0	1.2
Manokotak	9.3	2.4	11.7	2.4	3.6	6.0	0.0	0.0	0.0
Togiak	3.3	0.0	3.3	3.9	0.0	3.9	6.7	0.0	6.7
Twin Hills	--	--	--	23.3	6.5	29.8	8.4	2.1	10.5

Table 22 (Continued)
Subsistence Harbor Seal Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2001

Community	Struck			Struck			Struck		
	Harvest	and Lost	Take	Harvest	and Lost	Take	Harvest	and Lost	Take
	1998			2000			2001		
SOUTH ALASKA									
PENINSULA									
Chignik Bay	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	1.2	0.0	1.2	1.1	0.0	1.1
Chignik Lake	1.9	0.0	1.9	3.3	0.0	3.3	1.3	1.3	2.6
False Pass	17.8	1.3	19.1	2.5	1.2	3.7	2.5	1.2	3.7
Ivanof Bay	9.0	1.8	10.8	3.2	0.0	3.2	7.0	1.4	8.4
King Cove	18.2	0.0	18.2	19.3	2.1	21.4	22.0	4.0	26.0
Nelson Lagoon	--	--	--	--	--	--	--	--	--
Perryville	21.0	4.4	25.4	21.0	15.0	36.0	24.0	6.9	30.9
Sand Point	12.0	0.0	12.0	15.0	0.0	15.0	10.9	1.6	12.4
ALEUTIAN ISLANDS									
Akutan	14.0	3.8	17.8	25.7	5.4	31.1	13.6	2.7	16.4
Atka	16.8	0.0	16.8	16.8	0.0	16.8	63.3	6.7	70.0
Nikolski	2.2	0.0	2.2	2.2	0.0	2.2	5.3	0.0	5.3
Unalaska	12.7	0.0	12.7	34.3	5.1	39.4	37.8	3.2	41.0
PRIIBILOF ISLANDS									
St. George	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
St. Paul	4.6	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0
SOUTH BRISTOL BAY									
Egegik	0.0	0.0	0.0	4.0	3.0	7.0	6.3	1.0	7.3
King Salmon	5.2	0.0	5.2	3.3	9.8	13.0	8.5	6.1	14.6
Levelock	0.0	0.0	0.0	2.8	0.0	2.8	0.0	0.0	0.0
Naknek	15.7	7.8	23.5	16.3	0.0	16.3	15.1	4.3	19.4
Pilot Point	0.0	0.0	0.0	5.3	2.1	7.4	2.0	2.0	4.0
Port Heiden	36.1	18.6	54.7	19.6	0.0	19.6	10.1	3.4	13.4
South Naknek	5.2	7.9	13.1	4.1	2.7	6.8	11.0	3.0	14.0
NORTH BRISTOL BAY									
Aleknagik	3.1	0.0	3.1	2.5	0.0	2.5	0.0	1.2	1.2
Clark's Point	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
Dillingham	8.5	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
Manokotak	4.0	0.0	4.0	1.2	0.0	1.2	3.5	0.0	3.5
Togiak	14.1	1.4	15.5	5.1	1.1	6.3	5.3	0.0	5.3
Twin Hills	2.2	2.2	4.4	1.6	0.0	1.6	0.0	0.0	0.0

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2002.

Table 23
Subsistence Sea Lion Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2001

Community	Struck			Struck			Struck		
	Harvest	and Lost	Take	Harvest	and Lost	Take	Harvest	and Lost	Take
	1992			1993			1994		
SOUTHEAST ALASKA									
Angeon	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
Haines	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
Hydaburg	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
Kake	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2
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
Klawock	1.4	0.0	1.4	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
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
Petersburg	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
Sitka	3.8	1.3	5.0	0.0	1.1	1.1	1.1	1.1	2.2
Wrangell	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
NORTH PACIFIC RIM									
Chenega Bay	6.9	1.2	8.1	11.1	6.6	17.7	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
Nanwalek	6.3	0.0	6.3	8.5	1.1	9.5	1.2	2.3	3.5
Port Graham	3.5	1.2	4.7	1.1	0.0	1.1	0.0	0.0	0.0
Seldovia	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
Tatitlek	8.3	4.2	12.5	4.1	1.0	5.2	8.8	7.4	16.2
Valdez	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UPPER KENAI-COOK INLET									
Anchorage	5.7	3.8	9.5	7.8	3.3	11.1	1.4	0.0	1.4
Homer	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0
Kenai	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--
Tyonek	0.0	0.0	0.0	--	--	--	--	--	--
KODIAK ISLAND									
Akhiok	3.0	1.0	4.0	0.0	0.0	0.0	3.2	0.0	3.2
Karluk	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
Larsen Bay	1.1	0.0	1.1	0.0	0.0	0.0	2.2	0.0	2.2
Old Harbor	32.9	13.2	46.1	32.1	1.0	33.2	46.2	1.3	47.5
Ouzinkie	3.4	0.0	3.4	5.4	2.2	7.6	4.4	2.9	7.3
Port Lions	1.1	2.2	3.3	4.0	1.0	5.0	0.0	0.0	0.0

Table 23 (Continued)
Subsistence Sea Lion Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2001

Community	Struck Harvest and Lost Take			Struck Harvest and Lost Take			Struck Harvest and Lost Take		
	1995			1996			1997		
SOUTHEAST ALASKA									
Angeon	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
Haines	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
Hydaburg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Juneau	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kasaan	--	--	--	--	--	--	--	--	--
Ketchikan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Klawock	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
Metlakatla	--	--	--	--	--	--	--	--	--
Pelican	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
Saxman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sitka	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wrangell	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
NORTH PACIFIC RIM									
Chenega Bay	6.6	0.0	6.6	2.0	0.0	2.0	0.0	0.0	0.0
Cordova	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Nanwalek	9.2	0.0	9.2	4.3	1.1	5.3	0.0	0.0	0.0
Port Graham	10.0	2.0	12.0	1.1	0.0	1.1	0.0	0.0	0.0
Seldovia	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7
Seward	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tatitlek	2.6	0.0	2.6	5.0	0.0	5.0	2.7	1.4	4.1
Valdez	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UPPER KENAI-COOK INLET									
Anchorage	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0
Homer	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kenai	--	--	--	2.3	0.0	2.3	0.0	0.0	0.0
Tyonek	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0
KODIAK ISLAND									
Akhiok	1.0	1.0	2.0	6.0	1.0	7.0	6.6	1.3	7.9
Karluk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kodiak City	2.2	0.0	2.2	3.0	0.0	3.0	3.0	0.0	3.0
Larsen Bay	2.0	1.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
Old Harbor	107.1	5.7	112.9	44.9	5.3	50.2	22.7	3.6	26.3
Ouzinkie	15.6	0.0	15.6	0.0	0.0	0.0	0.0	0.0	0.0
Port Lions	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0

Table 23 (Continued)
Subsistence Sea Lion Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2001

Community	Struck Harvest and Lost Take			Struck Harvest and Lost Take			Struck Harvest and Lost Take		
	1998			2000			2001		
SOUTHEAST ALASKA									
Angoon	0.0	0.0	0.0	1.0	0.0	1.0	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
Haines	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
Hydaburg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Juneau	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kasaan	--	--	--	--	--	--	--	--	--
Ketchikan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Klawock	0.0	0.0	0.0	1.3	0.0	1.3	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
Metlakatla	--	--	--	--	--	--	--	--	--
Pelican	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
Saxman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sitka	3.3	4.4	7.6	0.0	0.0	0.0	0.0	0.0	0.0
Wrangell	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yakutat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTH PACIFIC RIM									
Chenega Bay	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2
Cordova	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	3.5
Nanwalek	2.1	0.0	2.1	6.5	0.0	6.5	3.7	0.0	3.7
Port Graham	1.2	0.0	1.2	1.7	3.4	5.0	0.0	0.0	0.0
Seldovia	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
Tatitlek	15.1	6.8	21.9	1.9	0.0	1.9	6.3	0.0	6.3
Valdez	1.7	1.7	3.3	1.7	1.7	3.3	0.0	0.0	0.0
UPPER KENAI-COOK INLET									
Anchorage	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3
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	0.0	0.0	0.0
Tyonek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KODIAK ISLAND									
Akhiok	3.1	0.0	3.1	3.2	0.0	3.2	1.4	0.0	1.4
Karluk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kodiak City	0.0	1.0	1.0	2.4	0.0	2.4	2.5	0.0	2.5
Larsen Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Old Harbor	10.3	2.3	12.6	12.9	0.0	12.9	26.3	2.2	28.5
Ouzinkie	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	2.6
Port Lions	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 24
Subsistence Sea Lion Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2001

Community	Struck Harvest and Lost Take			Struck Harvest and Lost Take			Struck Harvest and Lost Take		
	1992			1993			1994		
SOUTH ALASKA									
PENINSULA									
Chignik Bay	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
Chignik Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
False Pass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ivanof Bay	0.0	0.0	0.0	2.3	1.2	3.5	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
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
Sand Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALEUTIAN ISLANDS									
Akutan	25.7	4.3	30.0	14.5	8.9	23.4	12.7	3.5	16.2
Atka	28.6	9.9	38.5	25.1	0.0	25.1	45.5	8.7	54.2
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
PRIPILOF ISLANDS									
St. George	14.9	55.0	69.9	3.7	14.8	18.6	2.8	17.1	19.9
St. Paul	161.7	65.2	226.8	161.7	65.2	226.8	147.0	26.4	173.4
SOUTH BRISTOL BAY									
Egegik	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
Levelock	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
Pilot Point	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
South Naknek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTH BRISTOL BAY									
Aleknagik	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Clark's Point	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
Manokotak	3.9	0.0	3.9	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
Twin Hills	--	--	--	--	--	--	--	--	--

Table 24 (Continued)
Subsistence Sea Lion Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2001

Community	Struck Harvest and Lost Take			Struck Harvest and Lost Take			Struck Harvest and Lost Take		
	1995			1996			1997		
SOUTH ALASKA									
PENINSULA									
Chignik Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chignik Lagoon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chignik Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
False Pass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ivanof Bay	0.0	0.0	0.0	2.4	0.0	2.4	1.8	0.0	1.8
King Cove	5.0	0.0	5.0	0.0	0.0	0.0	4.2	0.0	4.2
Nelson Lagoon	--	--	--	--	--	--	--	--	--
Perryville	3.1	0.0	3.1	1.3	1.3	2.6	2.3	0.0	2.3
Sand Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALEUTIAN ISLANDS									
Akutan	6.0	0.0	6.0	11.0	5.0	16.0	6.4	0.0	6.4
Atka	40.0	0.0	40.0	17.3	0.0	17.3	12.2	0.0	12.2
Nikolski	0.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0	3.0
Unalaska	39.0	11.1	50.1	15.2	6.3	21.6	29.1	1.3	30.3
PRIBILOF ISLANDS									
St. George	4.0	4.0	8.0	4.0	4.0	8.0	19.6	8.1	27.7
St. Paul	53.6	6.3	59.9	28.2	10.2	38.4	25.9	2.3	28.2
SOUTH BRISTOL BAY									
Egegik	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
Levelock	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
Pilot Point	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
South Naknek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTH BRISTOL BAY									
Aleknagik	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Clark's Point	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
Manokotak	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Togiak	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	3.6
Twin Hills	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0

Table 24 (Continued)
Subsistence Sea Lion Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2001

Community	Struck Harvest and Lost Take			Struck Harvest and Lost Take			Struck Harvest and Lost Take		
	1998			2000			2001		
SOUTH ALASKA									
PENINSULA									
Chignik Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chignik Lagoon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chignik Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
False Pass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ivanof Bay	1.8	0.0	1.8	0.0	0.0	0.0	1.4	1.4	2.8
King Cove	4.3	0.0	4.3	4.3	0.0	4.3	3.0	0.0	3.0
Nelson Lagoon	--	--	--	--	--	--	--	--	--
Perryville	1.1	0.0	1.1	4.5	0.0	4.5	1.1	0.0	1.1
Sand Point	2.0	0.0	2.0	5.0	0.0	5.0	4.7	0.0	4.7
ALEUTIAN ISLANDS									
Akutan	6.4	0.0	6.4	4.1	1.4	5.4	15.0	2.7	17.7
Atka	16.8	0.0	16.8	16.8	0.0	16.8	33.3	11.7	45.0
Nikolski	1.1	0.0	1.1	1.1	0.0	1.1	6.7	0.0	6.7
Unalaska	7.3	5.5	12.7	49.2	3.4	52.6	23.1	5.3	28.4
PRIPILOF ISLANDS									
St. George	11.8	8.5	20.3	11.8	8.5	20.3	7.0	7.0	14.0
St. Paul	41.0	16.9	57.8	12.0	4.0	16.0	12.0	12.0	24.0
SOUTH BRISTOL BAY									
Egegik	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
Levelock	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
Pilot Point	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
South Naknek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTH BRISTOL BAY									
Aleknagik	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Clark's Point	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
Manokotak	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Togiak	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Twin Hills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 25
Harbor Seal Harvests by Strata
for Communities With Two Strata Designs, 2001

Community and Strata		Reported by Sample			Expanded		
		Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
Dillingham	high stratum	5	3	8	6.1	3.6	9.7
	low stratum	0	0	0	0.0	0.0	0.0
King Cove	high stratum	22	4	26	22.0	4.0	26.0
	low stratum	0	0	0	0.0	0.0	0.0
Manokotak	high stratum	10	1	11	11.8	1.2	13.0
	low stratum	0	0	0	0.0	0.0	0.0
Naknek	high stratum	14	4	18	15.1	4.3	19.4
	low stratum	0	0	0	0.0	0.0	0.0
Seward	high stratum	0	0	0	0.0	0.0	0.0
	low stratum	0	0	0	0.0	0.0	0.0
St. George	high stratum	0	1	1	0.0	1.0	1.0
	low stratum	0	0	0	0.0	0.0	0.0
Unalaska	high stratum	36	3	39	37.8	3.2	41.0
	low stratum	0	0	0	0.0	0.0	0.0

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2002.

Table 26
Sea Lion Harvests by Strata
for Communities With Two Strata Designs, 2001

Community and Strata		Reported by Sample			Expanded		
		Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
Dillingham	high stratum	0	0	0	0.0	0.0	0.0
	low stratum	0	0	0	0.0	0.0	0.0
King Cove	high stratum	3	0	3	3.0	0.0	3.0
	low stratum	0	0	0	0.0	0.0	0.0
Manokotak	high stratum	0	0	0	0.0	0.0	0.0
	low stratum	0	0	0	0.0	0.0	0.0
Naknek	high stratum	0	0	0	0.0	0.0	0.0
	low stratum	0	0	0	0.0	0.0	0.0
Seward	high stratum	0	0	0	0.0	0.0	0.0
	low stratum	0	0	0	0.0	0.0	0.0
St. George	high stratum	7	7	14	7.0	7.0	14.0
	low stratum	0	0	0	0.0	0.0	0.0
Unalaska	high stratum	22	5	27	23.1	5.3	28.4
	low stratum	0	0	0	0.0	0.0	0.0

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 2002.

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APPENDIX A
SURVEY INSTRUMENT USED
IN HOUSEHOLD INTERVIEWS, 2001

The Subsistence Harvest of Harbor Seals and Sea Lions by Alaska Natives in 2001, by Robert J. Wolfe, James A. Fall, and Ronald T. Stanek. Technical Paper No. 273, Alaska Department of Fish and Game, Division of Subsistence, Juneau, August 2002. Final Report For Year Nine, The Subsistence Harvest of Sea Lions and Harbor Seals by Alaska Natives, Harvest Assessment Program, 2001 (No. NA16FX1470), National Marine Fisheries Service.

This survey is only relevant to Native households.

How many people lived in your household in 2001?

IF YOU HUNTED OUTSIDE YOUR REGION: Where did you hunt?

CHECK IF APPROPRIATE	
No Contact	

HARBOR SEAL

DID YOU OR MEMBERS OF YOUR HOUSEHOLD HUNT OR USE HARBOR SEALS IN 2001?

YES **NO**

(IF YES, PLEASE COMPLETE THE FOLLOWING QUESTIONS:)

During 2001, did you or your household:

Yes	No
-----	----

HUNT OR USE SEA LIONS?		
NO		Thank You
YES		Go to Sea Lion form

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.]

[illegible]

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

[illegible]

During 2001, 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.]

[illegible]

SEA LIONS

DID YOU OR MEMBERS OF YOUR HOUSEHOLD HUNT OR USE SEA LIONS IN 2001?

YES _____ NO _____

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

During 2001, 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 AGE														
MALE														
FEMALE														
UNKNOWN														

During 2001,

9. How many sea lions were struck and lost by your household? [Enter number in total box.]

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

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

THANK YOU FOR YOUR COOPERATION.

APPENDIX B

SUBSISTENCE TAKES OF HARBOR SEAL AND SEA LION BY REGION

1-2	SOUTHEAST ALASKA
3-4	NORTH PACIFIC RIM
5-6	UPPER KENAI - COOK INLET
7-8	KODIAK ISLAND
9-10	SOUTH ALASKA PENINSULA
11-12	ALEUTIAN ISLANDS
13-14	PRIBILOF ISLANDS
15-16	SOUTH BRISTOL BAY
17-18	NORTH BRISTOL BAY

Table 1. SEA LION AND HARBOR SEAL HARVESTS: SOUTHEAST ALASKA, 2001

SAMPLING DESIGN:	Total
CHAIN REFERRAL	
Total Referred Households	529
Surveyed Households	417
Sampling Fraction	78.8%
Sample Household Members	1250
Estimated Household Members	1573.6
Estimated Native Population	14070

HARVEST AND USE INFORMATION

<i>Percentage of Native 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	N/A	N/A	Total Number Harvested	0.0	1019.9
Hunted	N/A	N/A	Total Number Struck and Lost	0.0	155.9
Harvested	N/A	N/A	Total Number Taken	0.0	1175.7
Received	N/A	N/A			
Gave Away	N/A	N/A	Number Harvested Per Capita	0.00	0.07

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

HARBOR SEAL HARVEST BY MONTH													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	54	51	75	95	57	28	38	27	73	93	85	82	42	800
Struck & Lost	4	5	3	15	14	3	12	7	22	15	14	9	6	129
Total Take	58	56	78	110	71	31	50	34	95	108	99	91	48	929
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	62.5	61.2	90.6	116.5	63.9	32.3	45.5	32.5	100.6	138.2	122.8	104.6	48.7	1019.9
Struck & Lost	4.1	5.3	3.4	16.2	14.5	3.0	12.4	10.0	27.5	20.6	19.8	12.1	6.9	155.9
Total Take	66.6	66.6	94.0	132.7	78.4	35.3	57.9	42.5	128.1	158.8	142.6	116.7	55.7	1175.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	64.8	63.3	96.1	124.1	70.1	34.8	48.5	35.0	104.5	142.1	126.9	109.7		1019.9
Struck & Lost	4.2	5.5	3.8	17.8	15.2	3.0	12.8	10.7	28.5	21.7	20.0	12.6		155.9
Total Take	69.0	68.9	99.9	141.9	85.2	37.8	61.4	45.6	133.0	163.8	146.9	122.3		1175.7
Total Take (%)	5.9%	5.9%	8.5%	12.1%	7.2%	3.2%	5.2%	3.9%	11.3%	13.9%	12.5%	10.4%		100%
Cum. Take	69.0	137.9	237.8	379.7	464.9	502.7	564.1	609.7	742.7	906.5	1053.5	1175.7		
Cum. Take (%)	5.9%	11.7%	20.2%	32.3%	39.5%	42.8%	48.0%	51.9%	63.2%	77.1%	89.6%	100.0%		

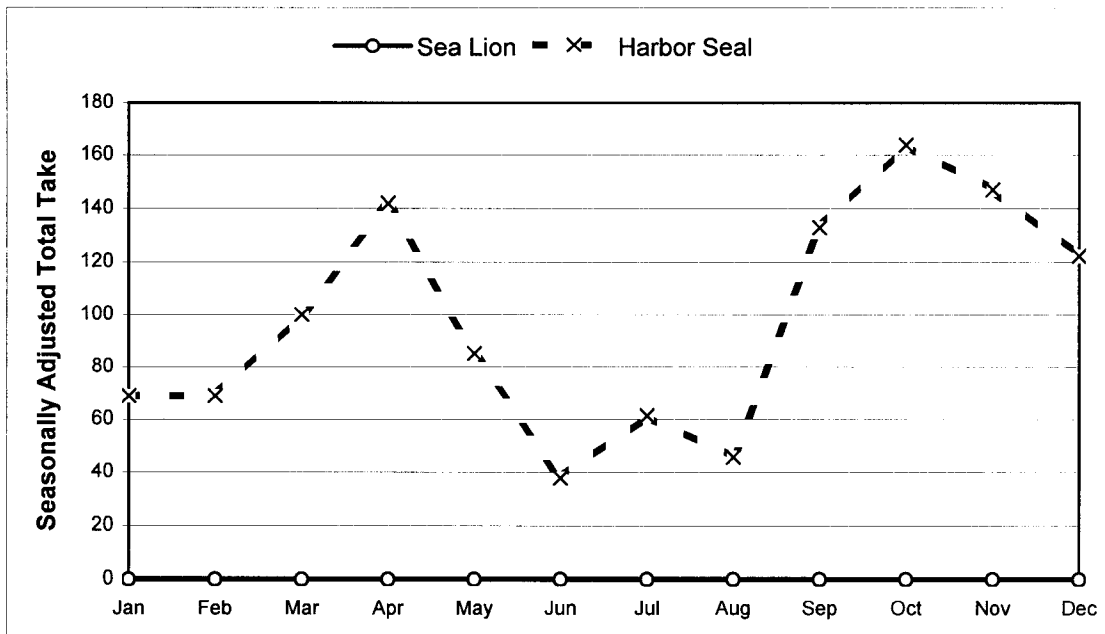
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 1. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTHEAST ALASKA, 2001

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	---	347	43.4%	412.8	40.5%
Adult Female	0	---	0.0	---	201	25.1%	249.8	24.5%
Adult Unknown Sex	0	---	0.0	---	106	13.3%	173.9	17.1%
Juvenile Male	0	---	0.0	---	71	8.9%	88.7	8.7%
Juvenile Female	0	---	0.0	---	19	2.4%	22.3	2.2%
Juvenile Unknown Sex	0	---	0.0	---	9	1.1%	12.7	1.2%
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	---	2	0.3%	2.2	0.2%
Male Unknown Age	0	---	0.0	---	1	0.1%	1.0	0.1%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	44	5.5%	56.4	5.5%
Total	0	---	0.0	---	800	100.0%	1019.9	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/	Total	Year	Harvest	Struck/	Total
		Lost	Take			Lost	Take
1992	5.2	1.3	6.4	1992	1476.8	189.5	1666.2
1993	0.0	1.1	1.1	1993	1425.0	190.0	1615.0
1994	3.5	1.1	4.6	1994	1348.5	151.4	1499.9
1995	0.0	0.0	0.0	1995	1719.1	170.9	1890.0
1996	0.0	0.0	0.0	1996	1641.6	216.3	1857.8
1997	0.0	0.0	0.0	1997	1343.4	224.1	1567.4
1998	3.3	4.4	7.6	1998	1414.0	202.4	1616.4
2000	2.3	0.0	2.3	2000	1209.7	151.4	1361.1
2001	0.0	0.0	0.0	2001	1019.9	155.9	1175.7

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, 2001

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	34	193	227
	Surveyed Households	28	126	154
	Sampling Fraction	82.4%	65.3%	67.8%
	Sample Household Members	76	422	498
	Estimated Household Members	97.3	627.1	724.4
	Estimated Native Population	---	---	1910.0

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	N/A	N/A	Total Number Harvested	14.7	279.9
Hunted	N/A	N/A	Total Number Struck and Lost	0.0	20.1
Harvested	N/A	N/A	Total Number Taken	14.7	300.0
Received	N/A	N/A			
Gave Away	N/A	N/A	Number Harvested Per Capita	0.01	0.15

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	0	0	0	1	1	0	1	0	5	0	2	11
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	1	0	0	0	1	1	0	1	0	5	0	2	11
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.2	0.0	0.0	0.0	1.6	1.2	0.0	1.6	0.0	6.1	0.0	3.2	14.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	1.2	0.0	0.0	0.0	1.6	1.2	0.0	1.6	0.0	6.1	0.0	3.2	14.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.2	0.0	0.0	0.0	3.2	1.2	0.0	3.2	0.0	6.1	0.0		14.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	1.2	0.0	0.0	0.0	3.2	1.2	0.0	3.2	0.0	6.1	0.0		14.7
Total Take (%)	0.0%	8.0%	0.0%	0.0%	0.0%	21.4%	7.9%	0.0%	21.4%	0.0%	41.2%	0.0%		100%
Cum. Take	0.0	1.2	1.2	1.2	1.2	4.3	5.5	5.5	8.7	8.7	14.7	14.7		
Cum. Take (%)	0.0%	8.0%	8.0%	8.0%	8.0%	29.5%	37.4%	37.4%	58.8%	58.8%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	15	24	13	1	7	11	20	18	15	26	14	19	29	212
Struck & Lost	2	0	0	0	0	0	4	1	2	1	0	0	3	13
Total Take	17	24	13	1	7	11	24	19	17	27	14	19	32	225
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	17.6	27.7	15.5	1.6	8.8	14.1	24.0	23.8	23.7	33.9	21.7	21.8	45.8	279.9
Struck & Lost	2.3	0.0	0.0	0.0	0.0	0.0	5.2	1.2	4.1	1.6	0.0	0.0	5.7	20.1
Total Take	19.9	27.7	15.5	1.6	8.8	14.1	29.1	25.0	27.8	35.5	21.7	21.8	51.5	300.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	22.2	27.7	24.6	6.2	13.4	23.3	24.0	28.4	28.2	38.5	21.7	21.8		279.9
Struck & Lost	2.3	0.0	0.0	0.0	0.0	0.0	5.9	1.2	8.3	2.4	0.0	0.0		20.1
Total Take	24.5	27.7	24.6	6.2	13.4	23.3	29.9	29.6	36.5	40.9	21.7	21.8		300.0
Total Take (%)	8.2%	9.2%	8.2%	2.1%	4.5%	7.8%	10.0%	9.9%	12.2%	13.6%	7.2%	7.3%		100%
Cum. Take	24.5	52.1	76.8	83.0	96.3	119.6	149.5	179.1	215.6	256.5	278.1	300.0		
Cum. Take (%)	8.2%	17.4%	25.6%	27.7%	32.1%	39.9%	49.8%	59.7%	71.9%	85.5%	92.7%	100.0%		

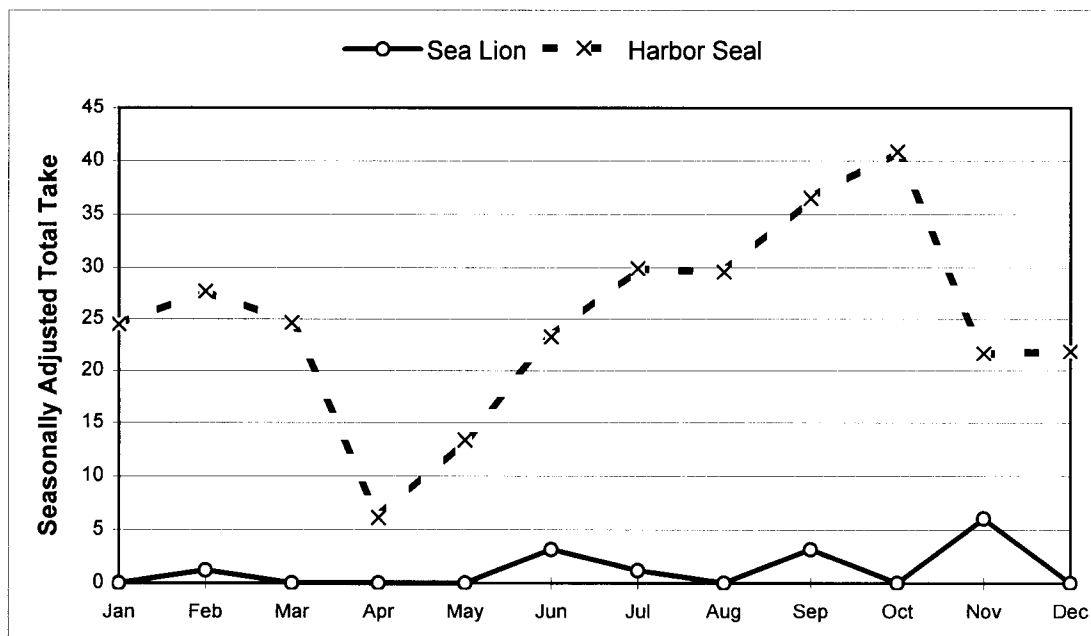
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 2. (cont.) SEA LION AND HARBOR SEAL HARVESTS: NORTH PACIFIC RIM, 2001

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	18.2%	2.3	15.9%	79	37.3%	102.7	36.7%
Adult Female	1	9.1%	1.2	8.4%	22	10.4%	26.3	9.4%
Adult Unknown Sex	2	18.2%	3.2	21.4%	13	6.1%	18.6	6.6%
Juvenile Male	2	18.2%	2.3	15.8%	33	15.6%	42.6	15.2%
Juvenile Female	2	18.2%	2.5	16.9%	12	5.7%	15.2	5.4%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	20	9.4%	24.9	8.9%
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	2	18.2%	3.2	21.4%	33	15.6%	49.7	17.8%
Total	11	100.0%	14.7	100.0%	212	100.0%	279.9	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	25.1	6.5	31.5	1992	377.6	33.4	411.0
1993	26.2	8.7	34.9	1993	412.3	38.5	450.8
1994	16.6	9.7	26.3	1994	411.2	56.8	468.0
1995	28.4	3.0	31.4	1995	252.1	11.7	263.9
1996	12.4	1.1	13.5	1996	289.0	22.1	311.1
1997	4.5	1.4	5.8	1997	295.0	12.8	307.7
1998	20.0	8.5	28.5	1998	393.5	41.4	434.9
2000	11.7	5.0	16.7	2000	289.9	29.8	319.7
2001	14.7	0.0	14.7	2001	279.9	20.1	300.0

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, 2001

SAMPLING DESIGN:		<u>Total</u>
CHAIN REFERRAL	Total Referred Households	91
	Surveyed Households	67
	Sampling Fraction	73.6%
	Sample Household Members	214
	Estimated Household Members	291.3
	Estimated Native Population	29670

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	N/A	N/A	Total Number Harvested	1.3	91.2
Hunted	N/A	N/A	Total Number Struck and Lost	0.0	2.7
Harvested	N/A	N/A	Total Number Taken	1.3	93.9
Received	N/A	N/A			
Gave Away	N/A	N/A	Number Harvested Per Capita	0.00	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	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	1	0	0	0	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0		1.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0		1.3
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3		
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%		

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	30	6	7	1	0	4	0	16	0	0	3	0	69
Struck & Lost	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Total Take	2	30	6	9	1	0	4	0	16	0	0	3	0	71
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.0	41.2	7.7	9.3	1.3	0.0	5.3	0.0	21.3	0.0	0.0	3.0	0.0	91.2
Struck & Lost	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Total Take	2.0	41.2	7.7	12.0	1.3	0.0	5.3	0.0	21.3	0.0	0.0	3.0	0.0	93.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.0	41.2	7.7	9.3	1.3	0.0	5.3	0.0	21.3	0.0	0.0	3.0		91.2
Struck & Lost	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.7
Total Take	2.0	41.2	7.7	12.0	1.3	0.0	5.3	0.0	21.3	0.0	0.0	3.0		93.9
Total Take (%)	2.1%	43.9%	8.2%	12.8%	1.4%	0.0%	5.7%	0.0%	22.7%	0.0%	0.0%	3.2%		100%
Cum. Take	2.0	43.2	50.9	62.9	64.2	64.2	69.6	69.6	90.9	90.9	90.9	93.9		
Cum. Take (%)	2.1%	46.0%	54.2%	67.0%	68.4%	68.4%	74.1%	74.1%	96.8%	96.8%	96.8%	100.0%		

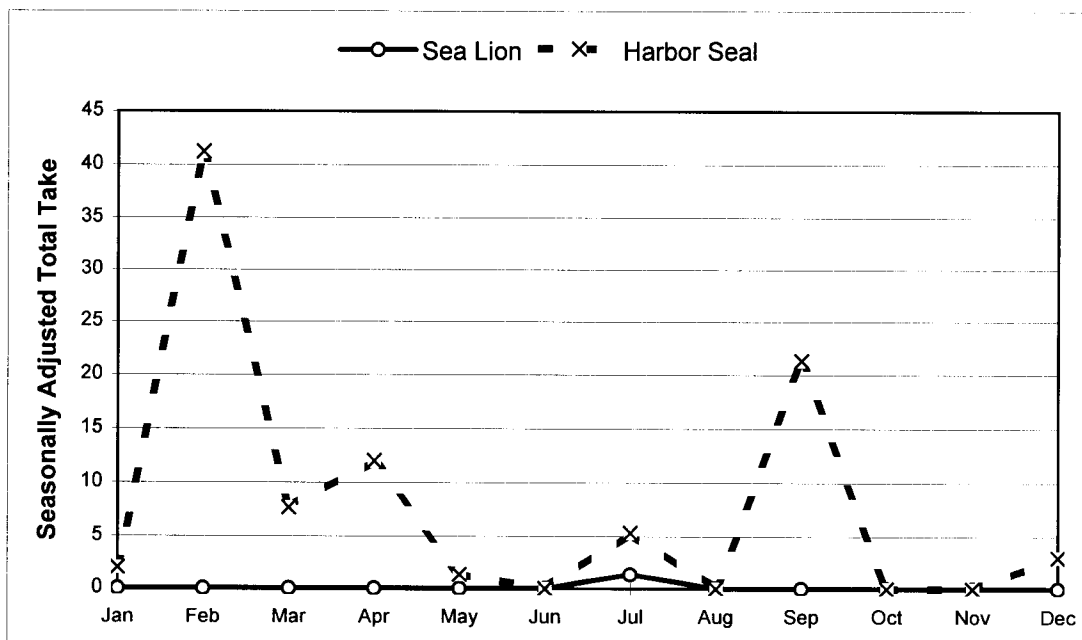
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 3. (cont.) SEA LION AND HARBOR SEAL HARVESTS: UPPER KENAI-COOK INLET, 2001

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%	6	8.7%	8.7	9.5%
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%	28	40.6%	36.0	39.5%
Juvenile Male	1	100.0%	1.3	100.0%	2	2.9%	2.7	2.9%
Juvenile Female	0	0.0%	0.0	0.0%	2	2.9%	2.7	2.9%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	29	42.0%	38.6	42.3%
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%	2	2.9%	2.7	2.9%
Total	1	100.0%	1.3	100.0%	69	100.0%	91.2	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	5.7	3.8	9.5	1992	51.6	0.0	51.6
1993	7.8	3.3	11.1	1993	49.2	5.6	54.8
1994	1.4	0.0	1.4	1994	16.2	0.0	16.2
1995	0.0	0.0	0.0	1995	3.7	0.0	3.7
1996	3.3	0.0	3.3	1996	64.3	8.8	73.1
1997	0.0	0.0	0.0	1997	101.7	8.8	110.5
1998	0.0	0.0	0.0	1998	79.2	13.5	92.7
2000	0.0	0.0	0.0	2000	79.2	13.5	92.7
2001	1.3	0.0	1.3	2001	91.2	2.7	93.9

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, 2001

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	44	120	164
	Surveyed Households	36	105	141
	Sampling Fraction	81.8%	87.5%	86.0%
	Sample Household Members	156	330	486
	Estimated Household Members	192.0	379.3	571.3
	Estimated Native Population	---	---	1584.0

HARVEST AND USE INFORMATION*Percentage of Native Households:*

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

*Estimated Community Harvest
and Take (Expanded):*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	32.8	155.6
Total Number Struck and Lost	2.2	4.8
Total Number Taken	35.0	160.4
Number Harvested Per Capita	0.02	0.10

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	0	0	1	1	8	1	5	8	4	29
Struck & Lost	0	0	0	0	0	0	0	0	1	0	0	1	0	2
Total Take	0	0	0	1	0	0	1	1	9	1	5	9	4	31
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.1	0.0	0.0	1.1	1.1	9.5	1.1	5.8	8.8	4.4	32.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1	0.0	2.2
Total Take	0.0	0.0	0.0	1.1	0.0	0.0	1.1	1.1	10.6	1.1	5.8	9.9	4.4	35.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.3	0.0	0.0	1.3	1.3	10.3	1.3	6.7	10.5		32.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1		2.2
Total Take	0.0	0.0	0.0	1.3	0.0	0.0	1.3	1.3	11.4	1.3	6.7	11.6		35.0
Total Take (%)	0.0%	0.0%	0.0%	3.8%	0.0%	0.0%	3.8%	3.8%	32.6%	3.8%	19.2%	33.2%		100%
Cum. Take	0.0	0.0	0.0	1.3	1.3	1.3	2.6	3.9	15.4	16.7	23.4	35.0		
Cum. Take (%)	0.0%	0.0%	0.0%	3.8%	3.8%	3.8%	7.5%	11.3%	43.9%	47.7%	66.8%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	7	7	9	2	5	6	3	12	20	17	20	14	11	133
Struck & Lost	0	0	1	0	0	0	0	0	2	1	0	0	0	4
Total Take	7	7	10	2	5	6	3	12	22	18	20	14	11	137
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	8.2	8.0	10.8	2.4	6.5	7.0	3.3	13.4	23.5	20.0	23.4	15.8	13.3	155.6
Struck & Lost	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	2.4	1.1	0.0	0.0	0.0	4.8
Total Take	8.2	8.0	12.1	2.4	6.5	7.0	3.3	13.4	25.9	21.1	23.4	15.8	13.3	160.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	8.3	8.1	11.1	2.4	9.9	7.2	3.4	13.9	27.5	23.8	23.8	16.3		155.6
Struck & Lost	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	2.4	1.1	0.0	0.0		4.8
Total Take	8.3	8.1	12.3	2.4	9.9	7.2	3.4	13.9	29.9	24.9	23.8	16.3		160.4
Total Take (%)	5.2%	5.1%	7.7%	1.5%	6.2%	4.5%	2.1%	8.7%	18.6%	15.5%	14.8%	10.1%		100%
Cum. Take	8.3	16.5	28.8	31.2	41.1	48.3	51.7	65.6	95.5	120.4	144.1	160.4		
Cum. Take (%)	5.2%	10.3%	18.0%	19.5%	25.6%	30.1%	32.2%	40.9%	59.5%	75.1%	89.9%	100.0%		

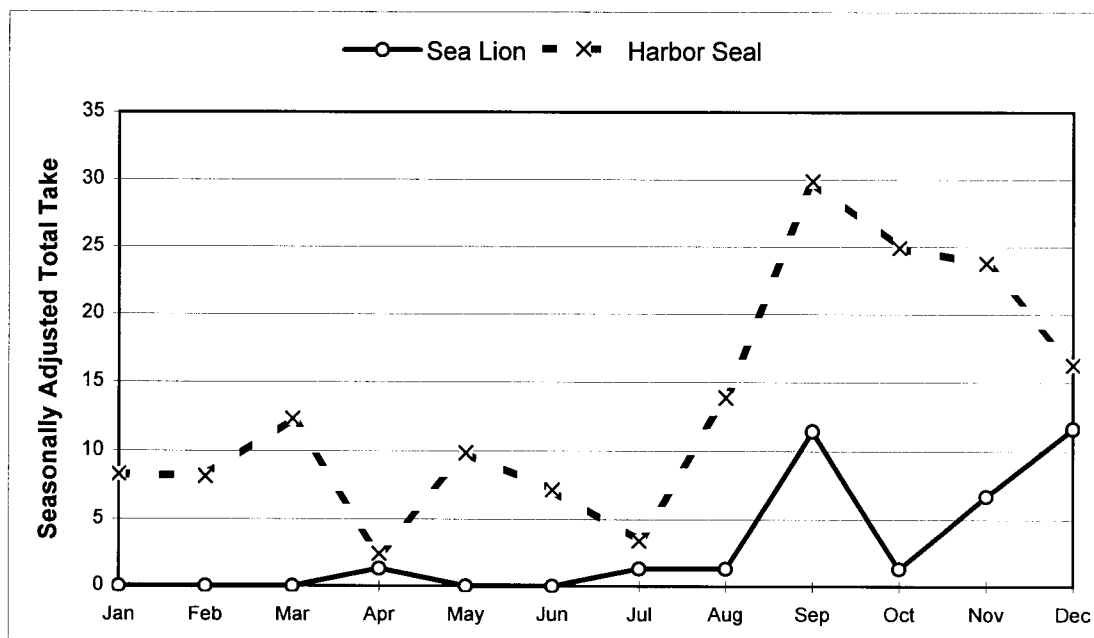
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 4. (cont.) SEA LION AND HARBOR SEAL HARVESTS: KODIAK ISLAND, 2001

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	13	44.8%	14.6	44.5%	73	54.9%	84.5	54.3%
Adult Female	8	27.6%	8.8	26.7%	13	9.8%	15.1	9.7%
Adult Unknown Sex	0	0.0%	0.0	0.0%	16	12.0%	18.7	12.0%
Juvenile Male	6	20.7%	6.9	21.1%	19	14.3%	22.7	14.6%
Juvenile Female	1	3.4%	1.3	3.8%	2	1.5%	2.4	1.5%
Juvenile Unknown Sex	1	3.4%	1.3	3.9%	7	5.3%	8.8	5.6%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	1	0.8%	1.1	0.7%
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	1.5%	2.2	1.4%
Total	29	100.0%	32.8	100.0%	133	100.0%	155.6	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	41.5	16.3	57.8	1992	225.5	13.1	238.6
1993	41.5	16.9	58.4	1993	171.7	20.1	191.8
1994	57.1	4.2	61.3	1994	168.2	3.6	171.7
1995	127.9	7.7	135.7	1995	223.0	9.2	232.2
1996	53.9	6.3	60.2	1996	185.2	4.9	190.1
1997	33.3	4.9	38.2	1997	189.8	18.3	208.2
1998	14.5	3.3	17.8	1998	174.0	3.7	177.7
2000	18.5	0.0	18.5	2000	185.9	7.3	193.2
2001	32.8	2.2	35.0	2001	155.6	4.8	160.4

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, 2001

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	28	133	161
	Surveyed Households	23	106	129
	Sampling Fraction	82.1%	79.7%	80.1%
	Sample Household Members	87	332	419
	Estimated Household Members	107.0	417.7	524.7
	Estimated Native Population	---	---	1228.0

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	N/A	N/A	Total Number Harvested	10.2	68.7
Hunted	N/A	N/A	Total Number Struck and Lost	1.4	16.3
Harvested	N/A	N/A	Total Number Taken	11.6	85.1
Received	N/A	N/A			
Gave Away	N/A	N/A	Number Harvested Per Capita	0.01	0.06

SEA LION HARVEST BY MONTH												Unknown		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	1	1	1	0	0	1	1	2	0	1	0	8
Struck & Lost	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Total Take	0	0	1	1	1	0	0	1	1	3	0	1	0	9
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.0	1.0	1.1	0.0	0.0	1.6	1.0	3.0	0.0	1.6	0.0	10.2
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.4
Total Take	0.0	0.0	1.0	1.0	1.1	0.0	0.0	1.6	1.0	4.4	0.0	1.6	0.0	11.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.0	1.0	1.1	0.0	0.0	1.6	1.0	3.0	0.0	1.6		10.2
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0		1.4
Total Take	0.0	0.0	1.0	1.0	1.1	0.0	0.0	1.6	1.0	4.4	0.0	1.6		11.6
Total Take (%)	0.0%	0.0%	8.6%	8.6%	9.8%	0.0%	0.0%	13.4%	8.6%	37.5%	0.0%	13.4%		100%
Cum. Take	0.0	0.0	1.0	2.0	3.1	3.1	3.1	4.7	5.7	10.1	10.1	11.6		
Cum. Take (%)	0.0%	0.0%	8.6%	17.2%	27.1%	27.1%	27.1%	40.5%	49.1%	86.6%	86.6%	100.0%		

HARBOR SEAL HARVEST BY MONTH												Unknown		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	4	3	4	3	3	1	3	7	4	6	10	6	5	59
Struck & Lost	1	1	0	0	0	1	1	1	1	2	1	0	5	14
Total Take	5	4	4	3	3	2	4	8	5	8	11	6	10	73
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.8	3.1	4.0	3.8	3.9	1.6	3.8	8.3	4.6	6.4	11.0	7.4	5.9	68.7
Struck & Lost	1.0	1.0	0.0	0.0	0.0	1.2	1.6	1.0	1.4	2.1	1.1	0.0	5.9	16.3
Total Take	5.8	4.1	4.0	3.8	3.9	2.8	5.4	9.3	6.0	8.6	12.1	7.4	11.7	85.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.5	3.5	4.1	3.9	4.3	1.7	4.5	8.5	5.0	7.3	12.2	8.3		68.7
Struck & Lost	1.1	1.1	0.1	0.1	0.1	1.3	1.7	1.1	1.5	4.5	3.5	0.1		16.3
Total Take	6.6	4.6	4.2	4.0	4.4	3.0	6.2	9.6	6.5	11.9	15.7	8.4		85.1
Total Take (%)	7.8%	5.4%	5.0%	4.7%	5.2%	3.5%	7.2%	11.2%	7.7%	14.0%	18.4%	9.9%		100%
Cum. Take	6.6	11.2	15.4	19.4	23.9	26.9	33.0	42.6	49.1	61.0	76.7	85.1		
Cum. Take (%)	7.8%	13.2%	18.1%	22.9%	28.1%	31.6%	38.8%	50.0%	57.7%	71.7%	90.1%	100.0%		

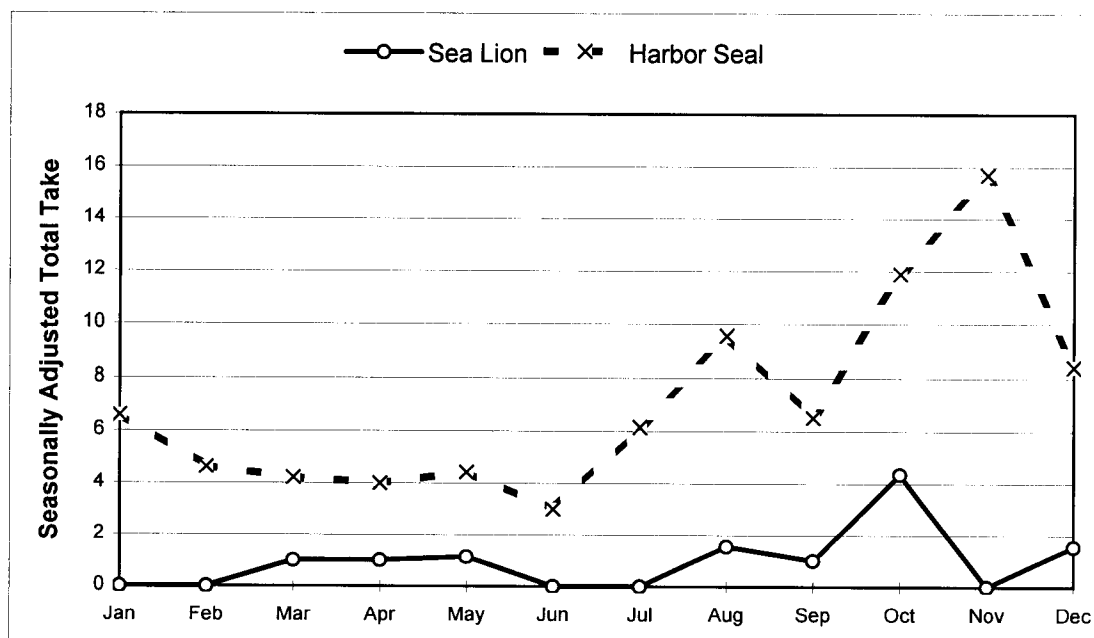
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 5. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTH ALASKA PENINSULA, 2001

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	37.5%	3.1	30.8%	25	42.4%	28.9	42.1%
Adult Female	1	12.5%	1.0	9.8%	14	23.7%	15.0	21.8%
Adult Unknown Sex	0	0.0%	0.0	0.0%	4	6.8%	5.2	7.6%
Juvenile Male	3	37.5%	4.5	44.2%	6	10.2%	7.1	10.3%
Juvenile Female	0	0.0%	0.0	0.0%	1	1.7%	1.4	2.0%
Juvenile Unknown Sex	1	12.5%	1.6	15.2%	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%	9	15.3%	11.1	16.2%
Total	8	100.0%	10.2	100.0%	59	100.0%	68.7	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	2.4	0.0	2.4	1992	115.5	13.1	128.6
1993	4.6	1.2	5.7	1993	100.0	23.1	123.1
1994	4.6	1.1	5.7	1994	98.6	11.1	109.8
1995	0.0	8.1	8.1	1995	117.0	11.1	128.0
1996	3.7	1.3	5.0	1996	86.3	5.0	91.3
1997	8.3	0.0	8.3	1997	68.3	12.1	80.4
1998	9.2	0.0	9.2	1998	79.9	7.5	87.4
2000	13.8	0.0	13.8	2000	65.4	18.4	83.8
2001	10.2	1.4	11.6	2001	68.7	16.3	85.1

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, 2001

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	21	129	150
	Surveyed Households	20	88	108
	Sampling Fraction	95.2%	68.2%	72.0%
	Sample Household Members	58	218	276
	Estimated Household Members	60.9	321.7	382.6
	Estimated Native Population	---	---	625.0

HARVEST AND USE INFORMATION*Percentage of Native Households:*

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

*Estimated Community Harvest
and Take (Expanded):*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	78.1	120.1
Total Number Struck and Lost	19.6	12.5
Total Number Taken	97.7	132.6
Number Harvested Per Capita	0.12	0.19

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	4	1	7	3	6	7	4	6	7	4	6	3	0	58
Struck & Lost	0	2	3	1	0	0	3	1	0	2	2	0	0	14
Total Take	4	3	10	4	6	7	7	7	7	6	8	3	0	72
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.4	1.4	9.8	4.1	8.8	8.3	5.7	7.5	9.4	5.4	6.9	4.4	0.0	78.1
Struck & Lost	0.0	3.3	5.0	1.4	0.0	0.0	3.2	1.7	0.0	3.0	2.1	0.0	0.0	19.6
Total Take	6.4	4.7	14.8	5.5	8.8	8.3	8.9	9.2	9.4	8.5	9.0	4.4	0.0	97.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.4	1.4	9.8	4.1	8.8	8.3	5.7	7.5	9.4	5.4	6.9	4.4		78.1
Struck & Lost	0.0	3.3	5.0	1.4	0.0	0.0	3.2	1.7	0.0	3.0	2.1	0.0		19.6
Total Take	6.4	4.7	14.8	5.5	8.8	8.3	8.9	9.2	9.4	8.5	9.0	4.4		97.7
Total Take (%)	6.5%	4.8%	15.2%	5.6%	9.0%	8.4%	9.1%	9.4%	9.7%	8.7%	9.2%	4.5%		100%
Cum. Take	6.4	11.1	25.9	31.3	40.1	48.3	57.2	66.4	75.9	84.3	93.4	97.7		
Cum. Take (%)	6.5%	11.3%	26.5%	32.1%	41.0%	49.5%	58.5%	67.9%	77.6%	86.3%	95.5%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	9	4	7	3	4	11	11	9	8	9	7	4	2	88
Struck & Lost	1	0	1	0	1	1	1	0	3	1	0	0	0	9
Total Take	10	4	8	3	5	12	12	9	11	10	7	4	2	97
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	9.5	4.8	9.5	5.0	6.3	14.6	14.9	12.8	11.5	13.2	9.8	4.8	3.3	120.1
Struck & Lost	1.1	0.0	1.4	0.0	1.1	1.4	1.7	0.0	5.0	1.1	0.0	0.0	0.0	12.5
Total Take	10.5	4.8	10.9	5.0	7.4	16.0	16.6	12.8	16.5	14.2	9.8	4.8	3.3	132.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	9.5	4.9	9.8	5.3	6.6	15.0	15.4	13.2	11.8	13.5	10.2	4.9		120.1
Struck & Lost	1.1	0.0	1.4	0.0	1.1	1.4	1.7	0.0	5.0	1.1	0.0	0.0		12.5
Total Take	10.5	4.9	11.2	5.3	7.7	16.4	17.0	13.2	16.8	14.6	10.2	4.9		132.6
Total Take (%)	7.9%	3.7%	8.4%	4.0%	5.8%	12.3%	12.9%	9.9%	12.7%	11.0%	7.7%	3.7%		100%
Cum. Take	10.5	15.4	26.6	31.8	39.5	55.9	72.9	86.1	103.0	117.6	127.7	132.6		
Cum. Take (%)	7.9%	11.6%	20.0%	24.0%	29.8%	42.1%	55.0%	64.9%	77.6%	88.6%	96.3%	100.0%		

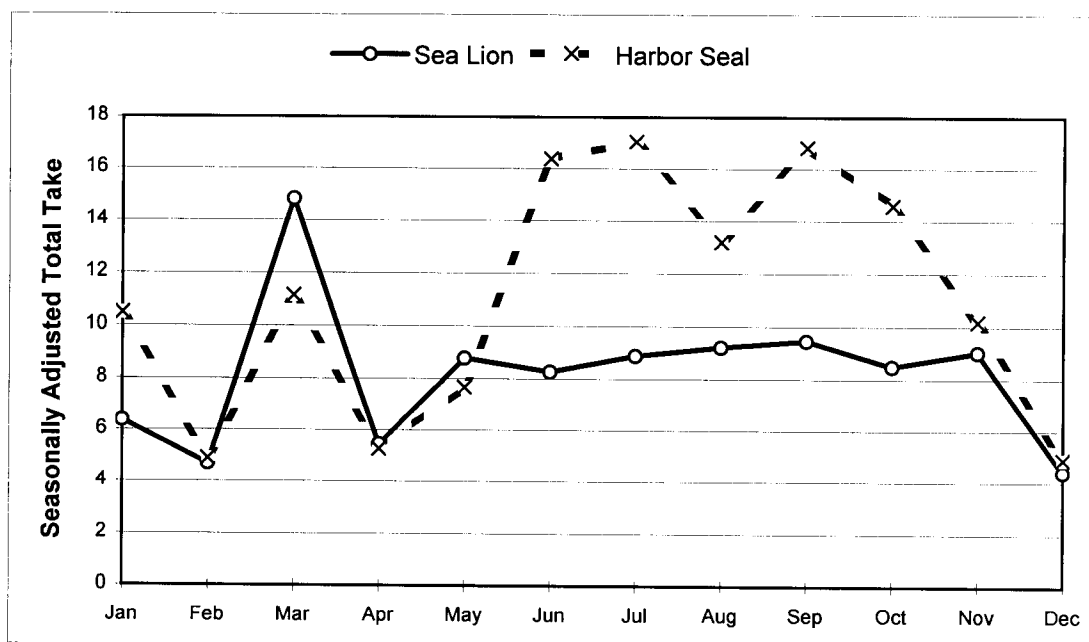
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 6. (cont.) SEA LION AND HARBOR SEAL HARVESTS: ALEUTIAN ISLANDS, 2001

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	18	31.0%	25.0	32.0%	25	28.4%	33.9	28.3%
Adult Female	5	8.6%	5.9	7.5%	4	4.5%	4.5	3.7%
Adult Unknown Sex	0	0.0%	0.0	0.0%	6	6.8%	6.6	5.5%
Juvenile Male	12	20.7%	13.9	17.7%	33	37.5%	44.5	37.1%
Juvenile Female	5	8.6%	5.6	7.1%	8	9.1%	10.6	8.8%
Juvenile Unknown Sex	1	1.7%	1.3	1.7%	0	0.0%	0.0	0.0%
Pup Male	2	3.4%	2.1	2.7%	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	15	25.9%	24.4	31.2%	12	13.6%	20.0	16.7%
Total	58	100.0%	78.1	100.0%	88	100.0%	120.1	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	104.3	30.9	135.2	1992	94.3	21.4	115.7
1993	99.0	24.8	123.8	1993	85.0	15.4	100.4
1994	101.8	20.5	122.3	1994	124.9	22.6	147.5
1995	85.0	11.1	96.1	1995	86.9	9.7	96.6
1996	46.5	11.3	57.9	1996	55.0	15.2	70.2
1997	50.7	1.3	51.9	1997	70.5	6.3	76.9
1998	31.6	5.5	37.0	1998	45.8	3.8	49.6
2000	71.2	4.8	76.0	2000	79.0	10.5	89.5
2001	78.1	19.6	97.7	2001	120.1	12.5	132.6

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, 2001

SAMPLING DESIGN:		Active	Other	Total
TWO-STRATA	Total Household Universe	N/A	N/A	N/A
	Surveyed Households	N/A	N/A	N/A
	Sampling Fraction	N/A	N/A	N/A
	Sample Household Members	N/A	N/A	N/A
	Estimated Household Members	N/A	N/A	N/A
	Estimated Native Population	---	---	600.0

HARVEST AND USE INFORMATION

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	24.2%	1.4%	Total Number Harvested	19.0	0.0
Hunted	40.6%	1.4%	Total Number Struck and Lost	19.0	1.0
Harvested	21.7%	0.0%	Total Number Taken	38.0	1.0
Received	22.7%	1.4%			
Gave Away	4.3%	1.4%	Number Harvested Per Capita	0.03	0.00

SEA LION HARVEST BY MONTH													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest:	1	1	1	6	3	0	0	0	2	4	1	0	0	19
Struck & Lost	1	1	1	4	8	0	0	0	0	3	1	0	0	19
Total Take	2	2	2	10	11	0	0	0	2	7	2	0	0	38
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	1.0	1.0	6.0	3.0	0.0	0.0	0.0	2.0	4.0	1.0	0.0	0.0	19.0
Struck & Lost	1.0	1.0	1.0	4.0	8.0	0.0	0.0	0.0	0.0	3.0	1.0	0.0	0.0	19.0
Total Take	2.0	2.0	2.0	10.0	11.0	0.0	0.0	0.0	2.0	7.0	2.0	0.0	0.0	38.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	1.0	1.0	6.0	3.0	0.0	0.0	0.0	2.0	4.0	1.0	0.0		19.0
Struck & Lost	1.0	1.0	1.0	4.0	8.0	0.0	0.0	0.0	0.0	3.0	1.0	0.0		19.0
Total Take	2.0	2.0	2.0	10.0	11.0	0.0	0.0	0.0	2.0	7.0	2.0	0.0		38.0
Total Take (%)	5.3%	5.3%	5.3%	26.3%	28.9%	0.0%	0.0%	0.0%	5.3%	18.4%	5.3%	0.0%		100%
Cum. Take	2.0	4.0	6.0	16.0	27.0	27.0	27.0	27.0	29.0	36.0	38.0	38.0		
Cum. Take (%)	5.3%	10.5%	15.8%	42.1%	71.1%	71.1%	71.1%	71.1%	76.3%	94.7%	100.0%	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Total Take	0	0	0	1	0	0	0	0	0	0	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	1.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck & Lost	0.0	0.0	0.0	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	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%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cum. Take	0.0	0.0	0.0	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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

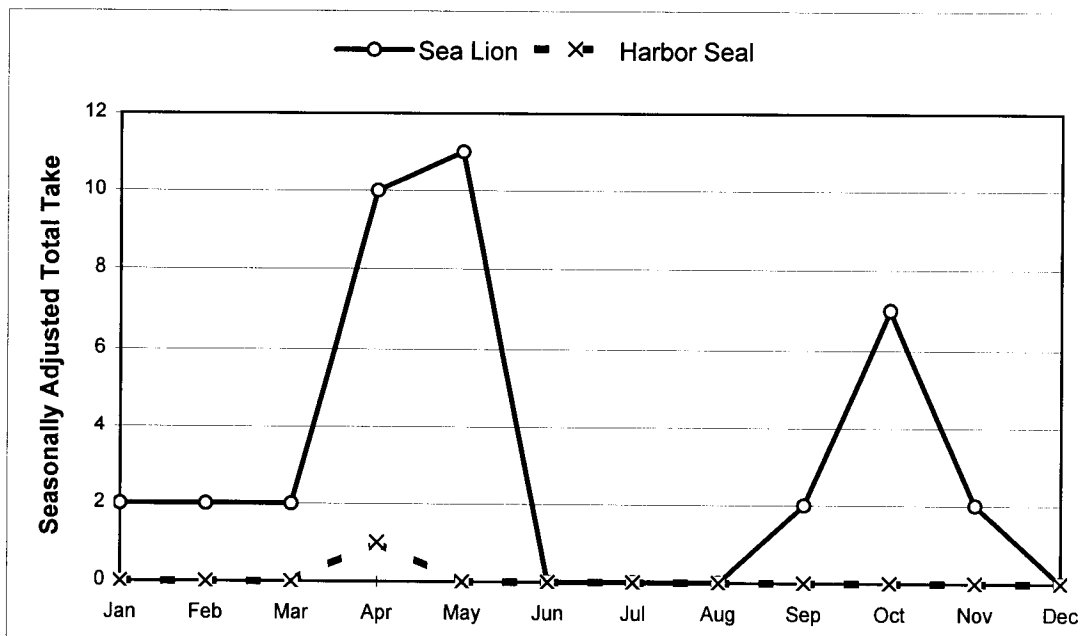
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with the exception of St. Paul Sea Lion: Lestenkof A. D., Zavadii, P.A., and Williams, M.T. 2002. The subsistence harvest of Steller sea lions on St. Paul Island in 2001. St. Paul Island, Pribilof Islands, Alaska.

Table 7. (cont.) SEA LION AND HARBOR SEAL HARVESTS: PRIBILOF ISLANDS, 2001

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	5.3%	1.0	5.3%	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	14	73.7%	14.0	73.7%	0	---	0.0	---
Juvenile Female	4	21.1%	4.0	21.1%	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	19	100.0%	19.0	100.0%	0	---	0.0	---

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	176.6	120.2	296.8	1992	2.3	1.2	3.5
1993	165.4	80.0	245.4	1993	2.3	1.2	3.5
1994	149.8	43.5	193.3	1994	7.3	0.0	7.3
1995	57.6	10.3	67.9	1995	2.5	0.0	2.5
1996	32.2	14.2	46.4	1996	0.0	0.0	0.0
1997	45.5	10.4	55.9	1997	0.0	0.0	0.0
1998	52.7	25.4	78.1	1998	4.6	0.0	4.6
2000	23.8	12.5	36.3	2000	0.0	0.0	0.0
2001	19.0	19.0	38.0	2001	0.0	1.0	1.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with the exception of St. Paul Sea Lion (2000 and 2001): Lestenkof A. D., Zavadil, P.A., and Williams, M.T. 2002. The subsistence harvest of Steller sea lions on St. Paul Island in 2001. St. Paul Island, Pribilof Islands, Alaska.

Table 8. SEA LION AND HARBOR SEAL HARVESTS: SOUTH BRISTOL BAY, 2001

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	14	179	193
	Surveyed Households	13	153	166
	Sampling Fraction	92.9%	85.5%	86.0%
	Sample Household Members	31	449	480
	Estimated Household Members	33.4	531.0	564.4
	Estimated Native Population	---	---	951.0

HARVEST AND USE INFORMATION*Percentage of Native Households:**Estimated Community Harvest
and Take (Expanded):*

	<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	N/A	N/A	Total Number Harvested	0.0	52.9
Hunted	N/A	N/A	Total Number Struck and Lost	0.0	19.8
Harvested	N/A	N/A	Total Number Taken	0.0	72.7
Received	N/A	N/A			
Gave Away	N/A	N/A	Number Harvested Per Capita	0.00	0.06

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	18	9	7	4	9	0	0	0	1	49
Struck & Lost	0	0	0	2	6	2	1	4	3	0	0	0	0	18
Total Take	0	0	0	3	24	11	8	8	12	0	0	0	1	67
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.0	19.6	9.9	7.4	4.3	9.7	0.0	0.0	0.0	1.1	52.9
Struck & Lost	0.0	0.0	0.0	2.4	6.2	2.2	1.0	4.4	3.7	0.0	0.0	0.0	0.0	19.8
Total Take	0.0	0.0	0.0	3.4	25.8	12.1	8.4	8.6	13.3	0.0	0.0	0.0	1.1	72.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.0	20.2	10.2	7.5	4.3	9.7	0.0	0.0	0.0		52.9
Struck & Lost	0.0	0.0	0.0	2.4	6.2	2.2	1.0	4.4	3.7	0.0	0.0	0.0		19.8
Total Take	0.0	0.0	0.0	3.4	26.4	12.4	8.6	8.6	13.3	0.0	0.0	0.0		72.7
Total Take (%)	0.0%	0.0%	0.0%	4.7%	36.3%	17.0%	11.8%	11.9%	18.3%	0.0%	0.0%	0.0%		100%
Cum. Take	0.0	0.0	0.0	3.4	29.8	42.2	50.8	59.4	72.7	72.7	72.7	72.7		
Cum. Take (%)	0.0%	0.0%	0.0%	4.7%	41.0%	58.0%	69.8%	81.7%	100.0%	100.0%	100.0%	100.0%		

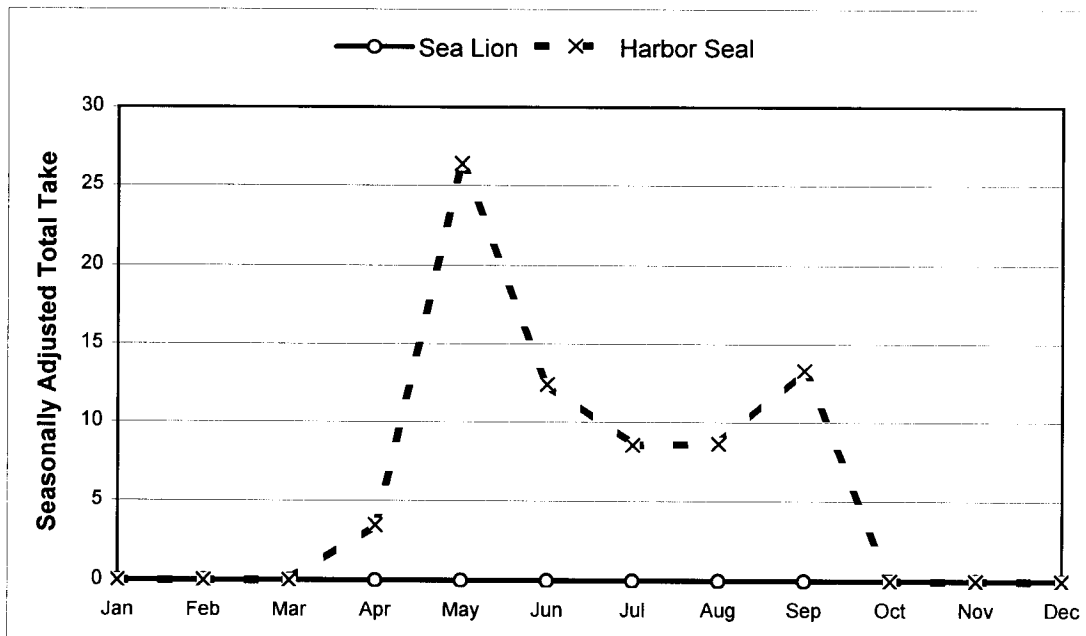
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 8. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTH BRISTOL BAY, 2001

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	—	25	51.0%	27.4	51.8%
Adult Female	0	—	0.0	—	10	20.4%	10.7	20.3%
Adult Unknown Sex	0	—	0.0	—	3	6.1%	3.0	5.7%
Juvenile Male	0	—	0.0	—	2	4.1%	2.4	4.6%
Juvenile Female	0	—	0.0	—	1	2.0%	1.2	2.3%
Juvenile Unknown Sex	0	—	0.0	—	2	4.1%	2.0	3.8%
Pup Male	0	—	0.0	—	1	2.0%	1.0	2.0%
Pup Female	0	—	0.0	—	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%
Male Unknown Age	0	—	0.0	—	2	4.1%	2.0	3.8%
Female Unknown Age	0	—	0.0	—	2	4.1%	2.0	3.8%
Unknown Sex and Age	0	—	0.0	—	1	2.0%	1.1	2.0%
Total	0	—	0.0	—	49	100.0%	52.9	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	99.0	68.6	167.6
1993	0.0	0.0	0.0	1993	73.6	57.3	130.9
1994	0.0	0.0	0.0	1994	121.6	59.3	180.9
1995	0.0	0.0	0.0	1995	68.3	28.3	96.6
1996	0.0	0.0	0.0	1996	63.8	44.2	108.0
1997	0.0	0.0	0.0	1997	107.8	66.3	174.1
1998	0.0	0.0	0.0	1998	62.2	34.3	96.5
2000	0.0	0.0	0.0	2000	55.4	17.6	73.0
2001	0.0	0.0	0.0	2001	52.9	19.8	72.7

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

Table 9. SEA LION AND HARBOR SEAL HARVESTS: NORTH BRISTOL BAY, 2001

SAMPLING DESIGN:		<u>Active</u>	<u>Other</u>	<u>Total</u>
MIXED	Total Household Universe	140	543	683
	Surveyed Households	122	147	269
	Sampling Fraction	87.1%	27.1%	39.4%
	Sample Household Members	559	522	1081
	Estimated Household Members	640.9	1789.6	2430.5
	Estimated Native Population	---	---	2952.0

HARVEST AND USE INFORMATION

Percentage of Native Households:

**Estimated Community Harvest
and Take (Expanded):**

	Sea <u>Lion</u>	Harbor Seal and <u>Spotted Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>	Spotted <u>Seal</u>
Used	N/A	N/A	Total Number Harvested	0.0	8.8	105.9
Hunted	N/A	N/A	Total Number Struck and Lost	0.0	1.2	20.8
Harvested	N/A	N/A	Total Number Taken	0.0	10.0	126.6
Received	N/A	N/A				
Gave Away	N/A	N/A	Number Harvested Per Capita	0.00	0.00	0.04

SEA LION HARVEST BY MONTH													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	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH														
	Spotted Seal					Harbor Seal				Spotted Seal			Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	12	29	11	2	1	3	1	4	22	8	9	103
Struck & Lost	0	0	3	8	4	0	1	0	0	0	3	0	1	20
Total Take	1	0	15	37	15	2	2	3	1	4	25	8	10	123
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.1	0.0	13.3	30.9	13.2	2.4	1.1	3.4	1.2	4.5	24.6	9.0	10.1	114.7
Struck & Lost	0.0	0.0	3.1	8.4	4.8	0.0	1.2	0.0	0.0	0.0	3.4	0.0	1.1	21.9
Total Take	1.1	0.0	16.4	39.3	18.0	2.4	2.3	3.4	1.2	4.5	28.0	9.0	11.2	136.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.3	0.0	13.5	32.5	13.6	2.4	1.3	4.0	1.2	5.3	29.1	10.6		114.7
Struck & Lost	0.0	0.0	3.1	8.4	4.8	0.0	1.2	0.0	0.0	0.0	4.5	0.0		21.9
Total Take	1.3	0.0	16.6	40.9	18.4	2.4	2.5	4.0	1.2	5.3	33.6	10.6		136.6
Total Take (%)	1.0%	0.0%	12.2%	29.9%	13.5%	1.7%	1.8%	2.9%	0.9%	3.9%	24.6%	7.7%		100.0%
Cum. Take	1.3	1.3	17.9	58.8	77.2	79.6	82.1	86.0	87.2	92.5	126.1	136.6		
Cum. Take (%)	1.0%	1.0%	13.1%	43.1%	56.5%	58.3%	60.1%	63.0%	63.8%	67.7%	92.3%	100.0%		

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

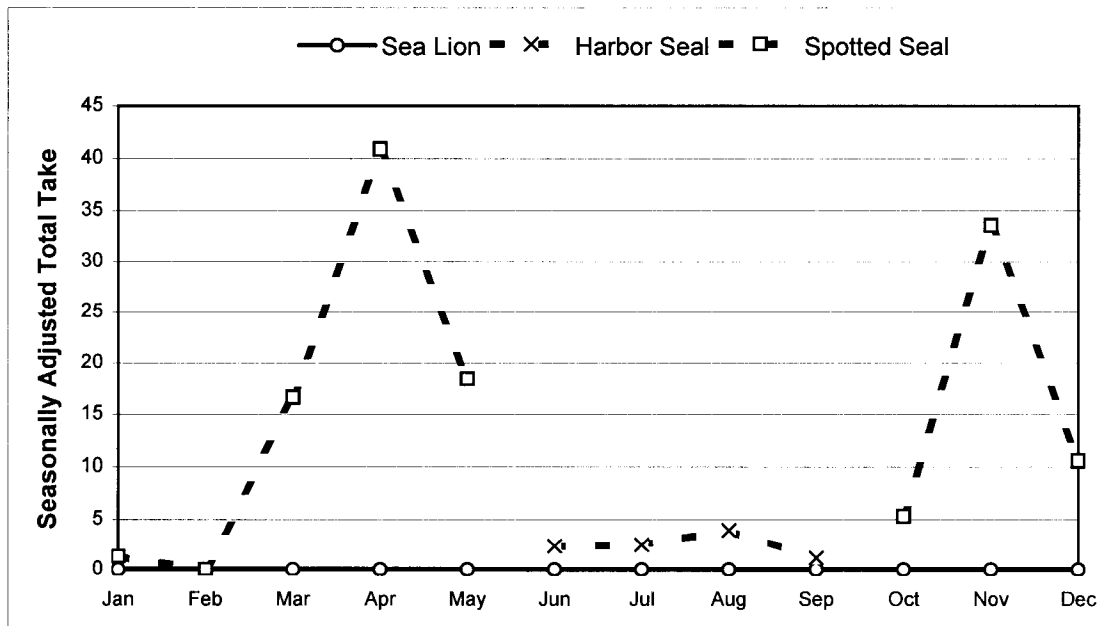
Table 9. (cont.) SEA LION AND HARBOR SEAL HARVESTS: NORTH BRISTOL BAY, 2001

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	---	2	28.6%	2.3	27.1%	12	13.8%	13.6	12.8%
Adult Female	0	---	0.0	---	2	28.6%	2.2	26.4%	10	11.5%	11.0	10.3%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%	10	11.5%	11.3	10.6%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%	7	8.0%	7.9	7.4%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%	1	1.1%	1.1	1.1%
Juvenile Unknown Sex	0	---	0.0	---	1	14.3%	1.6	18.8%	18	20.7%	28.6	27.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%	1	1.1%	1.2	1.1%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%	1	1.1%	1.2	1.1%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%	4	4.6%	4.3	4.1%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%	4	4.6%	4.3	4.1%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%	2	2.3%	2.1	2.0%
Unknown Sex and Age	0	---	0.0	---	2	28.6%	2.4	27.8%	17	19.5%	19.6	18.5%
Total	0	---	0.0	---	7	100.0%	8.5	100.0%	87	100.0%	106.2	100%

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/		Year	Harvest	Struck/		Year	Harvest	Struck/	
		Lost	Total			Lost	Total			Lost	Total
1992	7.8	0.0	7.8	1992	58.4	13.2	71.6	1992	364.1	72.5	436.6
1993	3.3	3.3	6.5	1993	46.1	20.0	66.1	1993	215.1	49.1	264.1
1994	1.2	0.0	1.2	1994	16.2	3.3	19.5	1994	226.5	42.9	269.5
1995	0.0	0.0	0.0	1995	25.9	2.4	28.3	1995	163.7	33.5	197.2
1996	0.0	0.0	0.0	1996	29.6	10.0	39.6	1996	202.1	25.0	227.1
1997	3.6	0.0	3.6	1997	18.8	2.1	20.9	1997	133.6	16.6	150.2
1998	0.0	0.0	0.0	1998	33.2	3.6	36.8	1998	145.9	25.4	171.3
2000	0.0	0.0	0.0	2000	10.4	1.1	11.6	2000	217.0	40.4	257.5
2001	0.0	0.0	0.0	2001	8.8	1.2	10.0	2001	105.9	20.8	126.6

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

APPENDIX C
SUBSISTENCE TAKES OF
HARBOR SEAL AND SEA LION
BY COMMUNITY

SOUTHEAST ALASKA

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

NORTH PACIFIC RIM

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

UPPER KENAI-COOK INLET

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

KODIAK ISLAND

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

SOUTH ALASKA PENINSULA

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

ALEUTIAN ISLANDS

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

PRIBILOF ISLANDS

95-96 St. George
97-98 St. Paul

SOUTH BRISTOL BAY

99-100 Egegik
101-102 King Salmon
103-104 Levelock
105-106 Naknek
107-108 Pilot Point
109-110 Port Heiden
111-112 South Naknek

NORTH BRISTOL BAY

113-114 Aleknagik
115-116 Clark's Point
117-118 Dillingham
119-120 Manokotak
121-122 Togiak
123-124 Twin Hills

Table 1. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Angoon, 2001**SAMPLING DESIGN:****CHAIN REFERRAL**

Total Referred Households	43
Surveyed Households	41
Sampling Fraction	95.3%
Sample Household Members	148
Estimated Household Members	155.2
Estimated Native Population	494

HARVEST AND USE INFORMATION**Percentage of Sample Households:**

	Sea Lion	Harbor Seal
Used	0.0%	90.2%
Hunted	0.0%	39.0%
Harvested	0.0%	39.0%
Received	0.0%	75.6%
Gave Away	0.0%	34.1%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	85.0
Total Number Struck and Lost	0.0	5.2
Total Number Taken	0.0	90.2
Number Harvested Per Capita	0.00	0.17

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	5	4	4	8	1	4	8	7	12	8	9	11	0	81
Struck & Lost	0	0	0	1	0	0	1	1	1	0	1	0	0	5
Total Take	5	4	4	9	1	4	9	8	13	8	10	11	0	86
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.2	4.2	4.2	8.4	1.0	4.2	8.4	7.3	12.6	8.4	9.4	11.5	0.0	85.0
Struck & Lost	0.0	0.0	0.0	1.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0	0.0	5.2
Total Take	5.2	4.2	4.2	9.4	1.0	4.2	9.4	8.4	13.6	8.4	10.5	11.5	0.0	90.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.2	4.2	4.2	8.4	1.0	4.2	8.4	7.3	12.6	8.4	9.4	11.5		85.0
Struck & Lost	0.0	0.0	0.0	1.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0		5.2
Total Take	5.2	4.2	4.2	9.4	1.0	4.2	9.4	8.4	13.6	8.4	10.5	11.5		90.2
Total Take (%)	5.8%	4.7%	4.7%	10.5%	1.2%	4.7%	10.5%	9.3%	15.1%	9.3%	11.6%	12.8%		100.0%
Cum. Take	5.2	9.4	13.6	23.1	24.1	28.3	37.8	46.1	59.8	68.2	78.7	90.2		
Cum. Take (%)	5.8%	10.5%	15.1%	25.6%	26.7%	31.4%	41.9%	51.2%	66.3%	75.6%	87.2%	100.0%		

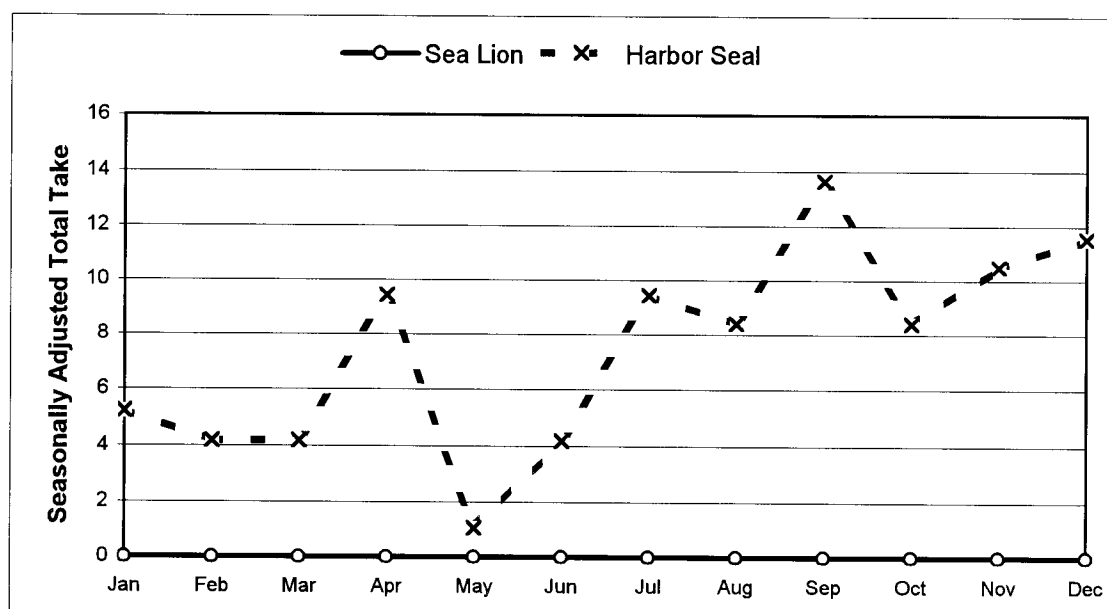
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Angoon, 2001.

Table 1. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Angoon, 2001

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	---	59	72.8%	61.9	72.8%
Adult Female	0	---	0.0	---	11	13.6%	11.5	13.6%
Adult Unknown Sex	0	---	0.0	---	4	4.9%	4.2	4.9%
Juvenile Male	0	---	0.0	---	4	4.9%	4.2	4.9%
Juvenile Female	0	---	0.0	---	1	1.2%	1.0	1.2%
Juvenile Unknown Sex	0	---	0.0	---	2	2.5%	2.1	2.5%
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	---	81	100.0%	85.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	125.1	28.9	154.0
1993	0.0	0.0	0.0	1993	56.6	9.9	66.5
1994	0.0	0.0	0.0	1994	66.9	21.1	88.0
1995	0.0	0.0	0.0	1995	80.9	9.0	90.6
1996	0.0	0.0	0.0	1996	71.0	2.0	73.0
1997	0.0	0.0	0.0	1997	51.0	7.1	58.1
1998	0.0	0.0	0.0	1998	53.0	2.0	55.0
2000	1.0	0.0	1.0	2000	64.3	6.1	70.4
2001	0.0	0.0	0.0	2001	85.0	5.2	90.2

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, 2001.

Table 2. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Craig, 2001**SAMPLING DESIGN:****CHAIN REFERRAL**

Total Referred Households	25
Surveyed Households	25
Sampling Fraction	100.0%
Sample Household Members	69
Estimated Household Members	69.0
Estimated Native Population	432

HARVEST AND USE INFORMATION**Percentage of Sample Households:**

	Sea Lion	Harbor Seal
Used	0.0%	64.0%
Hunted	0.0%	48.0%
Harvested	0.0%	48.0%
Received	0.0%	24.0%
Gave Away	0.0%	44.0%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	54.0
Total Number Struck and Lost	0.0	4.0
Total Number Taken	0.0	58.0
Number Harvested Per Capita	0.00	0.13

SEA LION HARVEST BY MONTH														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	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	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	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HARBOR SEAL HARVEST BY MONTH														Unknown Month		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)																
Harvest	7	6	9	2	1	6	2	0	1	4	3	10	3	3	54	54
Struck & Lost	0	2	0	0	0	0	0	0	1	0	0	1	0	0	4	4
Total Take	7	8	9	2	1	6	2	0	2	4	3	11	3	3	58	58
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	7.0	6.0	9.0	2.0	1.0	6.0	2.0	0.0	1.0	4.0	3.0	10.0	3.0	3.0	54.0	54.0
Struck & Lost	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	4.0	4.0
Total Take	7.0	8.0	9.0	2.0	1.0	6.0	2.0	0.0	2.0	4.0	3.0	11.0	3.0	3.0	58.0	58.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	7.4	6.4	9.5	2.1	1.1	6.4	2.1	0.0	1.1	4.2	3.2	10.6	3.2	3.2	54.0	54.0
Struck & Lost	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	4.0	4.0
Total Take	7.4	8.4	9.5	2.1	1.1	6.4	2.1	0.0	2.1	4.2	3.2	11.6	3.2	3.2	58.0	58.0
Total Take (%)	12.8%	14.4%	16.4%	3.7%	1.8%	11.0%	3.7%	0.0%	3.5%	7.3%	5.5%	20.0%	5.5%	5.5%	100.0%	100.0%
Cum. Take	7.4	15.8	25.3	27.4	28.5	34.8	36.9	36.9	39.0	43.2	46.4	58.0	58.0	58.0	58.0	58.0
Cum. Take (%)	12.8%	27.2%	43.6%	47.3%	49.1%	60.0%	63.7%	63.7%	67.2%	74.5%	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%

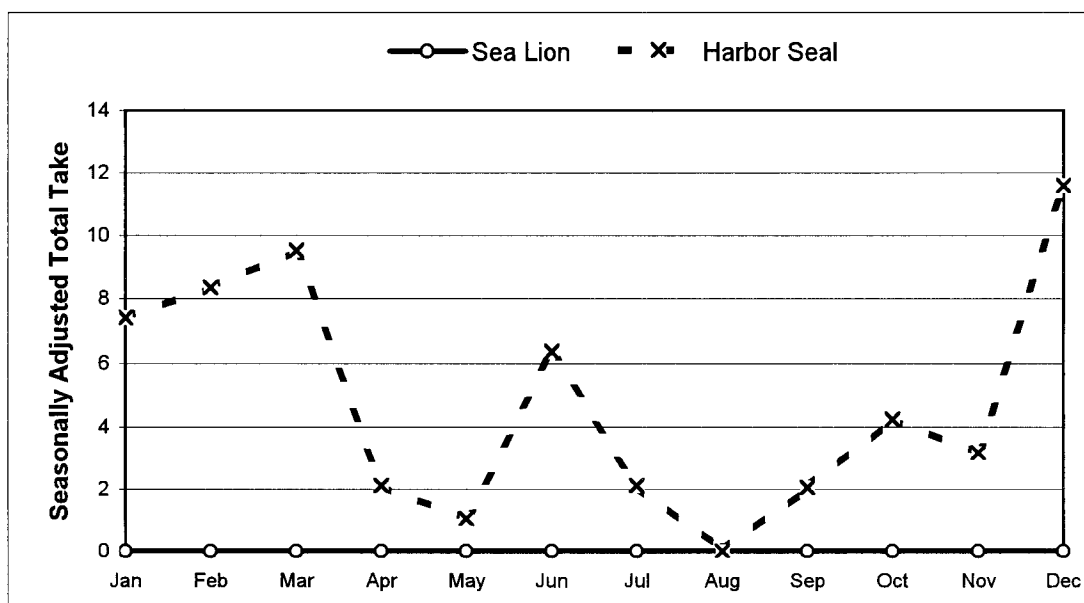
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the City of Craig and Shaan-Seet, Inc., 2001.

Table 2. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Craig, 2001

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	42.6%	23.0	42.6%
Adult Female	0	---	0.0	---	18	33.3%	18.0	33.3%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	6	11.1%	6.0	11.1%
Juvenile Female	0	---	0.0	---	4	7.4%	4.0	7.4%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	3	5.6%	3.0	5.6%
Total	0	---	0.0	---	54	100.0%	54.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	74.2	0.0	74.2
1993	0.0	0.0	0.0	1993	51.1	9.8	60.9
1994	0.0	0.0	0.0	1994	42.7	6.6	49.3
1995	0.0	0.0	0.0	1995	69.4	9.0	83.1
1996	0.0	0.0	0.0	1996	48.2	8.0	56.3
1997	0.0	0.0	0.0	1997	62.0	7.5	69.5
1998	0.0	0.0	0.0	1998	52.7	5.2	57.9
2000	0.0	0.0	0.0	2000	35.0	3.0	38.0
2001	0.0	0.0	0.0	2001	54.0	4.0	58.0

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-Seet, Inc., 2001.

Table 3. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Haines, 2001

SAMPLING DESIGN:

CHAIN REFERRAL

Total Referred Households	17
Surveyed Households	15
Sampling Fraction	88.2%
Sample Household Members	40
Estimated Household Members	45.3
Estimated Native Population	335

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	80.0%
Hunted	0.0%	60.0%
Harvested	0.0%	40.0%
Received	0.0%	53.3%
Gave Away	0.0%	60.0%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	19.3
Total Number Struck and Lost	0.0	1.1
Total Number Taken	0.0	20.4
Number Harvested Per Capita	0.00	0.06

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	6	11	0	0	0	0	0	0	0	0	0	0	0	17
Struck & Lost	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Total Take	6	12	0	0	0	0	0	0	0	0	0	0	0	18
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.8	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.3
Struck & Lost	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Total Take	6.8	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.8	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		19.3
Struck & Lost	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.1
Total Take	6.8	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		20.4
Total Take (%)	33.3%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	6.8	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4		
Cum. Take (%)	33.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

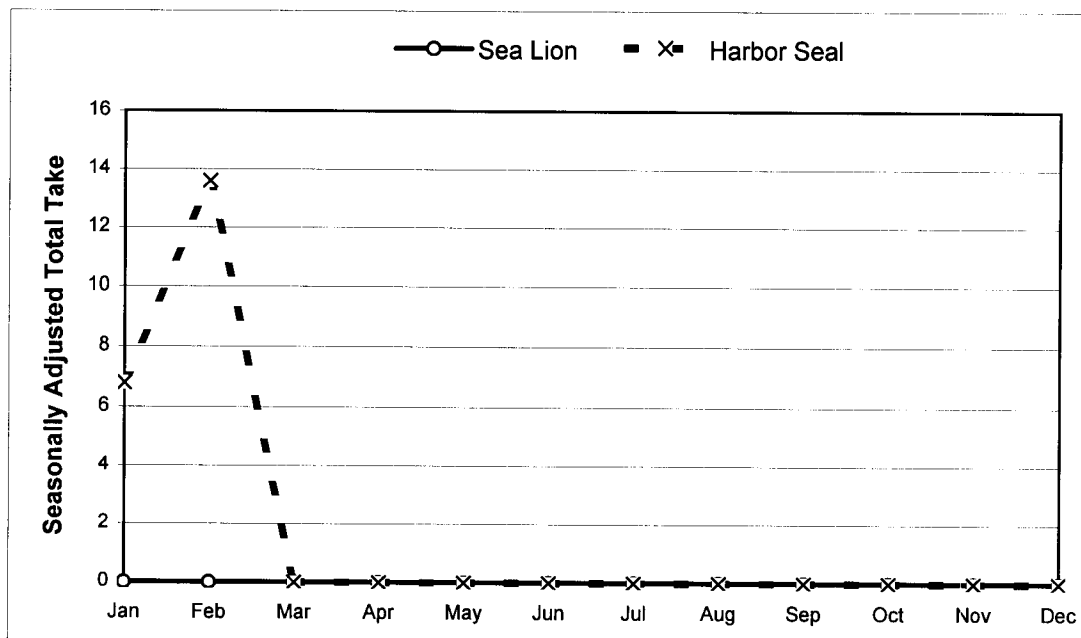
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chilcoot Indian Association, 2001

Table 3. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Haines, 2001

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	35.3%	6.8	35.3%
Adult Female	0	---	0.0	---	1	5.9%	1.1	5.9%
Adult Unknown Sex	0	---	0.0	---	4	23.5%	4.5	23.5%
Juvenile Male	0	---	0.0	---	1	5.9%	1.1	5.9%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	5	29.4%	5.7	29.4%
Total	0	---	0.0	---	17	100.0%	19.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	30.5	7.9	38.4
1993	0.0	0.0	0.0	1993	23.0	2.3	25.3
1994	0.0	0.0	0.0	1994	39.3	2.2	41.5
1995	0.0	0.0	0.0	1995	24.0	9.0	33.0
1996	0.0	0.0	0.0	1996	41.1	3.4	44.6
1997	0.0	0.0	0.0	1997	36.8	10.5	47.3
1998	0.0	0.0	0.0	1998	30.7	10.6	41.3
2000	0.0	0.0	0.0	2000	17.5	0.0	17.5
2001	0.0	0.0	0.0	2001	19.3	1.1	20.4

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 Chilcoot Indian Association, 2001

Table 4. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Hoonah, 2001**SAMPLING DESIGN:****CHAIN REFERRAL**

Total Referred Households	64
Surveyed Households	58
Sampling Fraction	90.6%
Sample Household Members	176
Estimated Household Members	194.2
Estimated Native Population	597

HARVEST AND USE INFORMATION**Percentage of Sample Households:**

	Sea Lion	Harbor Seal
Used	0.0%	55.2%
Hunted	0.0%	51.7%
Harvested	0.0%	48.3%
Received	0.0%	27.6%
Gave Away	0.0%	32.8%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	143.4
Total Number Struck and Lost	0.0	13.2
Total Number Taken	0.0	156.7
Number Harvested Per Capita	0.00	0.24

SEA LION HARVEST BY MONTH														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	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	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	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			

HARBOR SEAL HARVEST BY MONTH														Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	7	6	15	17	10	11	10	5	15	7	3	8	16		130
Struck & Lost	1	2	2	0	0	0	2	0	4	0	0	0	1		12
Total Take	8	8	17	17	10	11	12	5	19	7	3	8	17		142
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	7.7	6.6	16.6	18.8	11.0	12.1	11.0	5.5	16.6	7.7	3.3	8.8	17.7		143.4
Struck & Lost	1.1	2.2	2.2	0.0	0.0	0.0	2.2	0.0	4.4	0.0	0.0	0.0	1.1		13.2
Total Take	8.8	8.8	18.8	18.8	11.0	12.1	13.2	5.5	21.0	7.7	3.3	8.8	18.8		156.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	8.8	7.5	18.9	21.4	12.6	13.8	12.6	6.3	18.9	8.8	3.8	10.1			143.4
Struck & Lost	1.2	2.4	2.4	0.0	0.0	0.0	2.4	0.0	4.8	0.0	0.0	0.0			13.2
Total Take	10.0	10.0	21.3	21.4	12.6	13.8	15.0	6.3	23.7	8.8	3.8	10.1			156.7
Total Take (%)	6.4%	6.4%	13.6%	13.7%	8.0%	8.8%	9.6%	4.0%	15.1%	5.6%	2.4%	6.4%			100.0%
Cum. Take	10.0	20.0	41.3	62.6	75.2	89.1	104.1	110.4	134.0	142.8	146.6	156.7			
Cum. Take (%)	6.4%	12.7%	26.3%	40.0%	48.0%	56.8%	66.4%	70.4%	85.5%	91.2%	93.6%	100.0%			

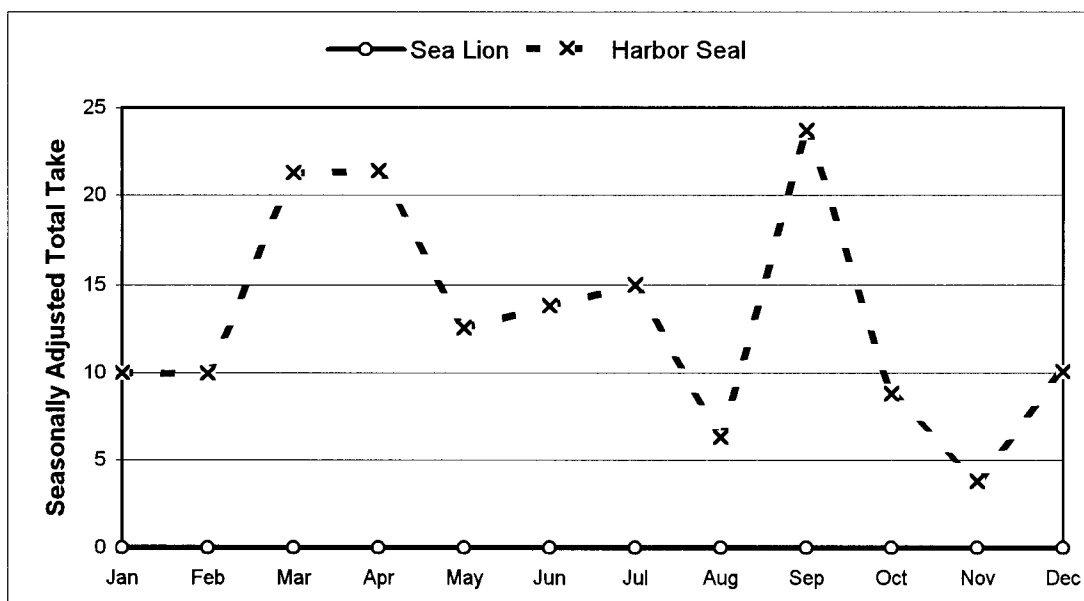
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Hoonah Traditional Council, 2001.

Table 4. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Hoonah, 2001

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	---	53	40.8%	58.5	40.8%
Adult Female	0	---	0.0	---	35	26.9%	38.6	26.9%
Adult Unknown Sex	0	---	0.0	---	24	18.5%	26.5	18.5%
Juvenile Male	0	---	0.0	---	7	5.4%	7.7	5.4%
Juvenile Female	0	---	0.0	---	5	3.8%	5.5	3.8%
Juvenile Unknown Sex	0	---	0.0	---	3	2.3%	3.3	2.3%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	2	1.5%	2.2	1.5%
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	0.8%	1.1	0.8%
Total	0	---	0.0	---	130	100.0%	143.4	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	350.2	24.8	375.0
1993	0.0	0.0	0.0	1993	324.4	35.8	360.2
1994	0.0	0.0	0.0	1994	240.7	15.0	255.8
1995	0.0	0.0	0.0	1995	236.6	9.0	256.3
1996	0.0	0.0	0.0	1996	359.7	48.6	408.3
1997	0.0	0.0	0.0	1997	143.8	9.9	153.8
1998	0.0	0.0	0.0	1998	169.7	19.8	189.6
2000	0.0	0.0	0.0	2000	147.9	16.0	163.9
2001	0.0	0.0	0.0	2001	143.4	13.2	156.7

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, 2001.

Table 5. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Hydaburg, 2001**SAMPLING DESIGN:****CHAIN REFERRAL**

Total Referred Households	16
Surveyed Households	10
Sampling Fraction	62.5%
Sample Household Members	27
Estimated Household Members	43.2
Estimated Native Population	342.1

HARVEST AND USE INFORMATION**Percentage of Sample Households:**

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

**Estimated Community Harvest
and Take (Expanded):**

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

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	2	2	2	0	0	0	0	0	0	1	1	1	9
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	2	2	2	0	0	0	0	0	0	1	1	1	9
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	14.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	14.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8		14.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8		14.4
Total Take (%)	0.0%	25.0%	25.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.5%	12.5%		100.0%
Cum. Take	0.0	3.6	7.2	10.8	10.8	10.8	10.8	10.8	10.8	10.8	12.6	14.4		
Cum. Take (%)	0.0%	25.0%	50.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	87.5%	100.0%		

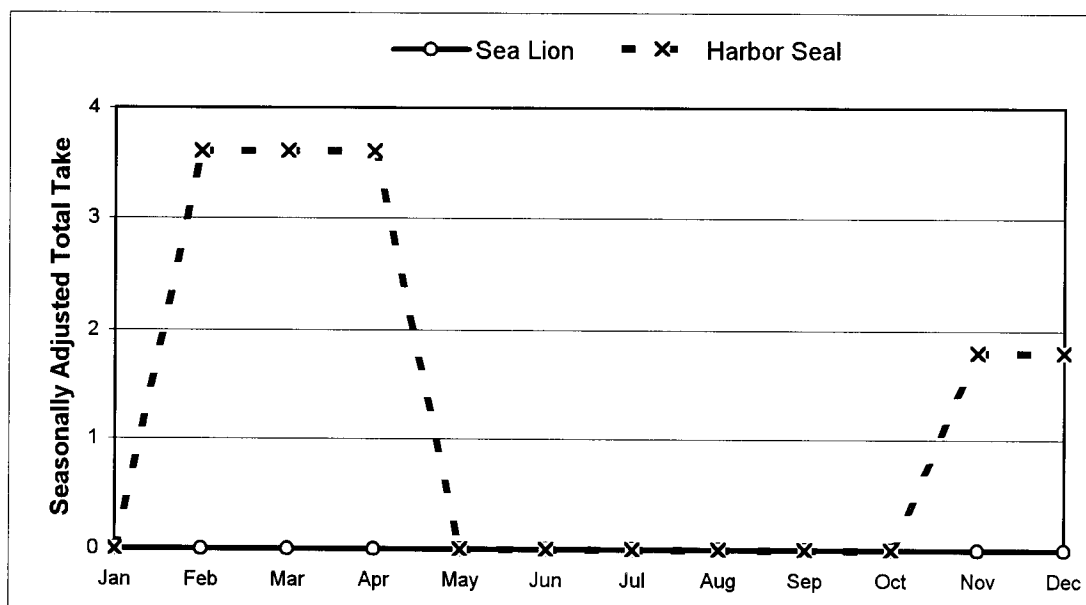
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the City of Hydaburg and Haida Corporation. (Numbers based on 1998 survey estimates).

Table 5. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Hydaburg, 2001

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	44.4%	6.4	44.4%
Adult Female	0	---	0.0	---	3	33.3%	4.8	33.3%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	2	22.2%	3.2	22.2%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	9	100.0%	14.4	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	30.0	2.1	32.1
1993	0.0	0.0	0.0	1993	14.0	0.0	14.0
1994	0.0	0.0	0.0	1994	10.0	0.0	10.0
1995	0.0	0.0	0.0	1995	6.5	9.0	6.5
1996	0.0	0.0	0.0	1996	15.0	0.0	15.0
1997	0.0	0.0	0.0	1997	11.5	0.0	11.5
1998	0.0	0.0	0.0	1998	14.4	0.0	14.4
2000	0.0	0.0	0.0	2000	14.4	0.0	14.4
2001	0.0	0.0	0.0	2001	14.4	0.0	14.4

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

Table 6. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Juneau, 2001**SAMPLING DESIGN:****CHAIN REFERRAL**

Total Referred Households	52
Surveyed Households	33
Sampling Fraction	63.5%
Sample Household Members	96
Estimated Household Members	151.3
Estimated Native Population	5084

HARVEST AND USE INFORMATION*Percentage of Sample Households:*

	Sea Lion	Harbor Seal
Used	0.0%	54.5%
Hunted	0.0%	48.5%
Harvested	0.0%	24.2%
Received	0.0%	33.3%
Gave Away	0.0%	21.2%

*Estimated Community Harvest
and Take (Expanded):*

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	29.9
Total Number Struck and Lost	0.0	1.6
Total Number Taken	0.0	31.5
Number Harvested Per Capita	0.00	0.01

SEA LION HARVEST BY MONTH														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	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	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	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			

HARBOR SEAL HARVEST BY MONTH														Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	2	0	3	1	1	0	1	2	0	2	4	1	2		19
Struck & Lost	0	0	0	0	0	0	0	1	0	0	0	0	0		1
Total Take	2	0	3	1	1	0	1	3	0	2	4	1	2		20
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	3.2	0.0	4.7	1.6	1.6	0.0	1.6	3.2	0.0	3.2	6.3	1.6	3.2		29.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0		1.6
Total Take	3.2	0.0	4.7	1.6	1.6	0.0	1.6	4.7	0.0	3.2	6.3	1.6	3.2		31.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	3.5	0.0	5.3	1.8	1.8	0.0	1.8	3.5	0.0	3.5	7.0	1.8			29.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0			1.6
Total Take	3.5	0.0	5.3	1.8	1.8	0.0	1.8	5.1	0.0	3.5	7.0	1.8			31.5
Total Take (%)	11.2%	0.0%	16.8%	5.6%	5.6%	0.0%	5.6%	16.2%	0.0%	11.2%	22.4%	5.6%			100.0%
Cum. Take	3.5	3.5	8.8	10.6	12.3	12.3	14.1	19.2	19.2	22.7	29.8	31.5			
Cum. Take (%)	11.2%	11.2%	27.9%	33.5%	39.1%	39.1%	44.7%	60.9%	60.9%	72.1%	94.4%	100.0%			

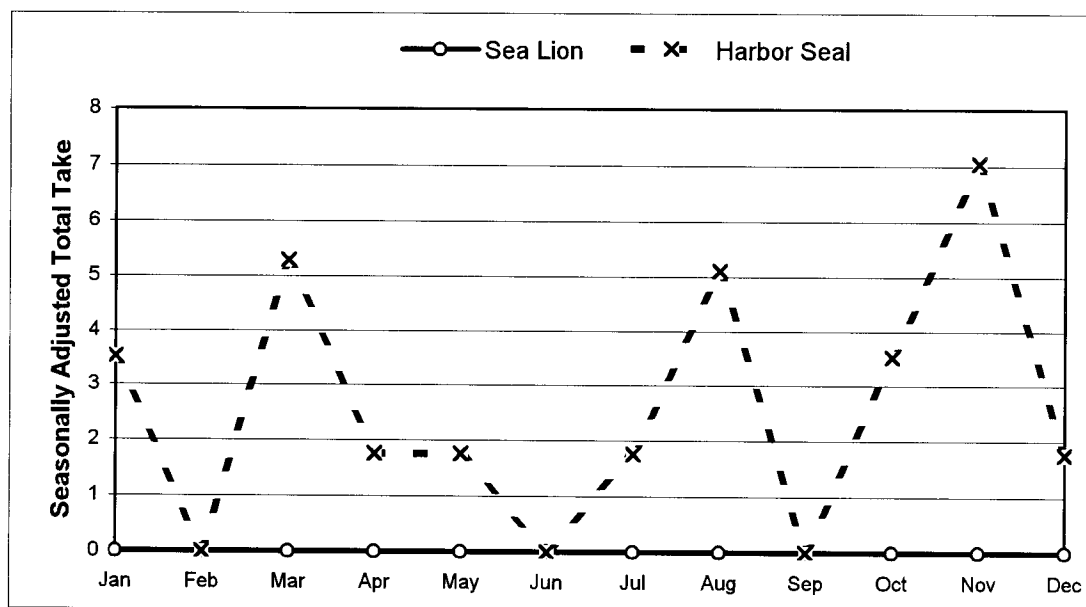
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Tlingit and Haida Central Council, Sealaska, Auke Tribe Council, and ANB/ANS, 2001.

Table 6. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Juneau, 2001

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	31.6%	9.5	31.6%
Adult Female	0	---	0.0	---	1	5.3%	1.6	5.3%
Adult Unknown Sex	0	---	0.0	---	2	10.5%	3.2	10.5%
Juvenile Male	0	---	0.0	---	2	10.5%	3.2	10.5%
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	---	8	42.1%	12.6	42.1%
Total	0	---	0.0	---	19	100.0%	29.9	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	122.6	7.6	130.2
1993	0.0	0.0	0.0	1993	59.0	21.6	80.6
1994	1.1	0.0	1.1	1994	78.6	13.5	92.1
1995	0.0	0.0	0.0	1995	42.9	9.0	44.2
1996	0.0	0.0	0.0	1996	32.8	1.3	34.1
1997	0.0	0.0	0.0	1997	99.0	0.0	99.0
1998	0.0	0.0	0.0	1998	90.4	15.3	105.7
2000	0.0	0.0	0.0	2000	59.9	3.5	63.4
2001	0.0	0.0	0.0	2001	29.9	1.6	31.5

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, 2001.

Table 7. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kake, 2001**SAMPLING DESIGN:****CHAIN REFERRAL**

Total Referred Households	52
Surveyed Households	34
Sampling Fraction	65.4%
Sample Household Members	99
Estimated Household Members	151.3
Estimated Native Population	530

HARVEST AND USE INFORMATION**Percentage of Sample Households:**

	Sea Lion	Harbor Seal
Used	0.0%	85.3%
Hunted	0.0%	52.9%
Harvested	0.0%	52.9%
Received	0.0%	64.7%
Gave Away	0.0%	41.2%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	85.6
Total Number Struck and Lost	0.0	10.7
Total Number Taken	0.0	96.4
Number Harvested Per Capita	0.00	0.16

SEA LION HARVEST BY MONTH														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	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	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	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HARBOR SEAL HARVEST BY MONTH														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	1	2	0	0	1	4	2	13	16	8	9	0	0	56	56
Struck & Lost	0	0	0	0	0	0	0	0	5	2	0	0	0	0	7	7
Total Take	0	1	2	0	0	1	4	2	18	18	8	9	0	0	63	63
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	0.0	1.5	3.1	0.0	0.0	1.5	6.1	3.1	19.9	24.5	12.2	13.8	0.0	0.0	85.6	85.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	3.1	0.0	0.0	0.0	0.0	10.7	10.7
Total Take	0.0	1.5	3.1	0.0	0.0	1.5	6.1	3.1	27.5	27.5	12.2	13.8	0.0	0.0	96.4	96.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	0.0	1.5	3.1	0.0	0.0	1.5	6.1	3.1	19.9	24.5	12.2	13.8	0.0	0.0	85.6	85.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	3.1	0.0	0.0	0.0	0.0	10.7	10.7
Total Take	0.0	1.5	3.1	0.0	0.0	1.5	6.1	3.1	27.5	27.5	12.2	13.8	0.0	0.0	96.4	96.4
Total Take (%)	0.0%	1.6%	3.2%	0.0%	0.0%	1.6%	6.3%	3.2%	28.6%	28.6%	12.7%	14.3%	0.0%	0.0%	100.0%	100.0%
Cum. Take	0.0	1.5	4.6	4.6	4.6	6.1	12.2	15.3	42.8	70.4	82.6	96.4	96.4	96.4	96.4	96.4
Cum. Take (%)	0.0%	1.6%	4.8%	4.8%	4.8%	6.3%	12.7%	15.9%	44.4%	73.0%	85.7%	100.0%	100.0%	100.0%	100.0%	100.0%

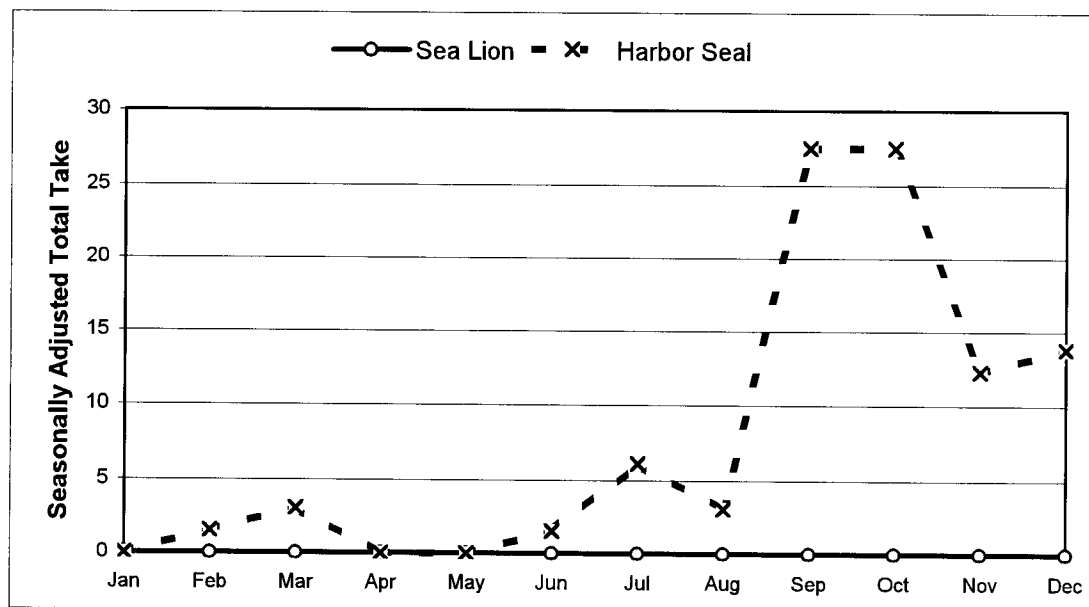
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Organized Village of Kake and City of Kake, 2001.

Table 7. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kake, 2001

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	---	28	50.0%	42.8	50.0%
Adult Female	0	---	0.0	---	1	1.8%	1.5	1.8%
Adult Unknown Sex	0	---	0.0	---	4	7.1%	6.1	7.1%
Juvenile Male	0	---	0.0	---	13	23.2%	19.9	23.2%
Juvenile Female	0	---	0.0	---	2	3.6%	3.1	3.6%
Juvenile Unknown Sex	0	---	0.0	---	1	1.8%	1.5	1.8%
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	---	7	12.5%	10.7	12.5%
Total	0	---	0.0	---	56	100.0%	85.6	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	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	9.0	73.5
1996	0.0	0.0	0.0	1996	86.4	0.0	86.4
1997	0.0	0.0	0.0	1997	68.4	7.6	76.0
1998	0.0	0.0	0.0	1998	123.0	6.1	129.1
2000	0.0	0.0	0.0	2000	101.7	3.6	105.3
2001	0.0	0.0	0.0	2001	85.6	10.7	96.4

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, 2001.

Table 8. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ketchikan, 2001**SAMPLING DESIGN:
CHAIN REFERRAL**

Total Referred Households	15
Surveyed Households	13
Sampling Fraction	86.7%
Sample Household Members	30
Estimated Household Members	34.6
Estimated Native Population	1802

HARVEST AND USE INFORMATION**Percentage of Sample Households:**

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

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	12.7
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	12.7
Number Harvested Per Capita	0.00	0.01

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	5	0	0	0	0	0	2	3	1	0	11
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	5	0	0	0	0	0	2	3	1	0	11
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	2.3	3.5	1.2	0.0	12.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	2.3	3.5	1.2	0.0	12.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	2.3	3.5	1.2		12.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	2.3	3.5	1.2		12.7
Total Take (%)	0.0%	0.0%	0.0%	45.5%	0.0%	0.0%	0.0%	0.0%	0.0%	18.2%	27.3%	9.1%		100.0%
Cum. Take	0.0	0.0	0.0	5.8	5.8	5.8	5.8	5.8	5.8	8.1	11.5	12.7		
Cum. Take (%)	0.0%	0.0%	0.0%	45.5%	45.5%	45.5%	45.5%	45.5%	45.5%	63.6%	90.9%	100.0%		

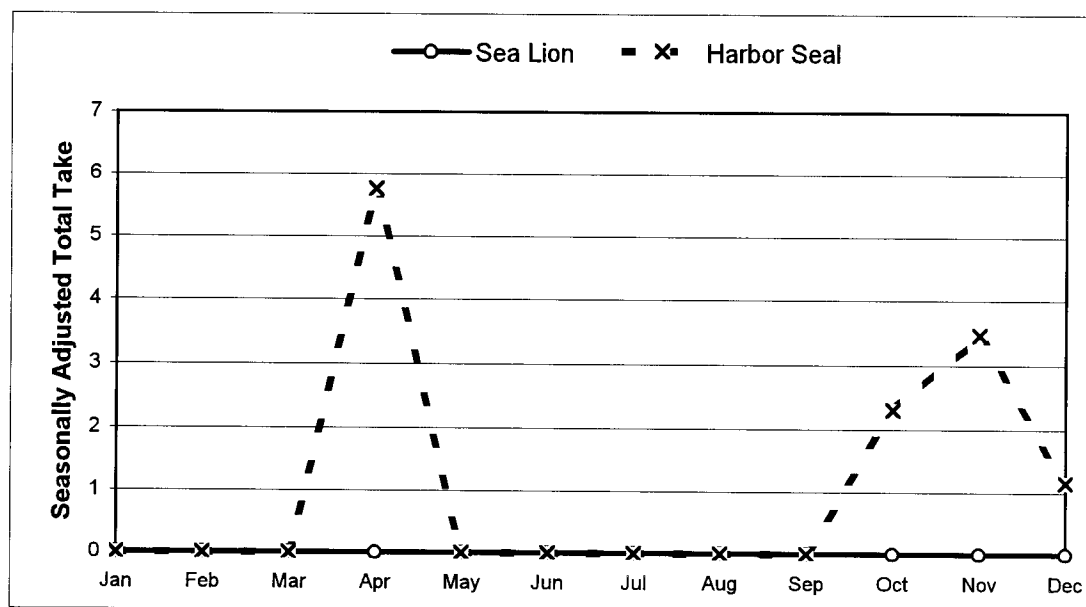
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Ketchikan IRA Council and Ketchikan Indian Corporation, 2001.

Table 8. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ketchikan, 2001

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	54.5%	6.9	54.5%
Adult Female	0	---	0.0	---	5	45.5%	5.8	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%
Total	0	---	0.0	---	11	100.0%	12.7	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	90.2	6.5	96.8
1993	0.0	0.0	0.0	1993	42.4	2.9	45.3
1994	0.0	0.0	0.0	1994	31.4	0.0	31.4
1995	0.0	0.0	0.0	1995	46.4	9.0	46.4
1996	0.0	0.0	0.0	1996	25.0	0.0	25.0
1997	0.0	0.0	0.0	1997	27.4	4.3	31.8
1998	0.0	0.0	0.0	1998	26.7	0.0	26.7
2000	0.0	0.0	0.0	2000	111.7	0.0	111.7
2001	0.0	0.0	0.0	2001	12.7	0.0	12.7

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, 2001.

Table 9. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Klawock, 2001**SAMPLING DESIGN:****CHAIN REFERRAL**

Total Referred Households	32
Surveyed Households	30
Sampling Fraction	93.8%
Sample Household Members	104
Estimated Household Members	110.9
Estimated Native Population	496

HARVEST AND USE INFORMATION**Percentage of Sample Households:**

	Sea Lion	Harbor Seal
Used	0.0%	80.0%
Hunted	0.0%	76.7%
Harvested	0.0%	73.3%
Received	0.0%	26.7%
Gave Away	0.0%	60.0%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	71.5
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	71.5
Number Harvested Per Capita	0.00	0.14

SEA LION HARVEST BY MONTH														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	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	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	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			

HARBOR SEAL HARVEST BY MONTH														Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	12	8	20	12	3	1	3	0	0	0	4	4	0	0	67
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	12	8	20	12	3	1	3	0	0	0	4	4	0	0	67
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	12.8	8.5	21.3	12.8	3.2	1.1	3.2	0.0	0.0	0.0	4.3	4.3	0.0	0.0	71.5
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	0.0
Total Take	12.8	8.5	21.3	12.8	3.2	1.1	3.2	0.0	0.0	0.0	4.3	4.3	0.0	0.0	71.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	12.8	8.5	21.3	12.8	3.2	1.1	3.2	0.0	0.0	0.0	4.3	4.3			71.5
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	12.8	8.5	21.3	12.8	3.2	1.1	3.2	0.0	0.0	0.0	4.3	4.3			71.5
Total Take (%)	17.9%	11.9%	29.9%	17.9%	4.5%	1.5%	4.5%	0.0%	0.0%	0.0%	6.0%	6.0%			100.0%
Cum. Take	12.8	21.3	42.7	55.5	58.7	59.7	62.9	62.9	62.9	62.9	67.2	71.5			
Cum. Take (%)	17.9%	29.9%	59.7%	77.6%	82.1%	83.6%	88.1%	88.1%	88.1%	88.1%	94.0%	100.0%			

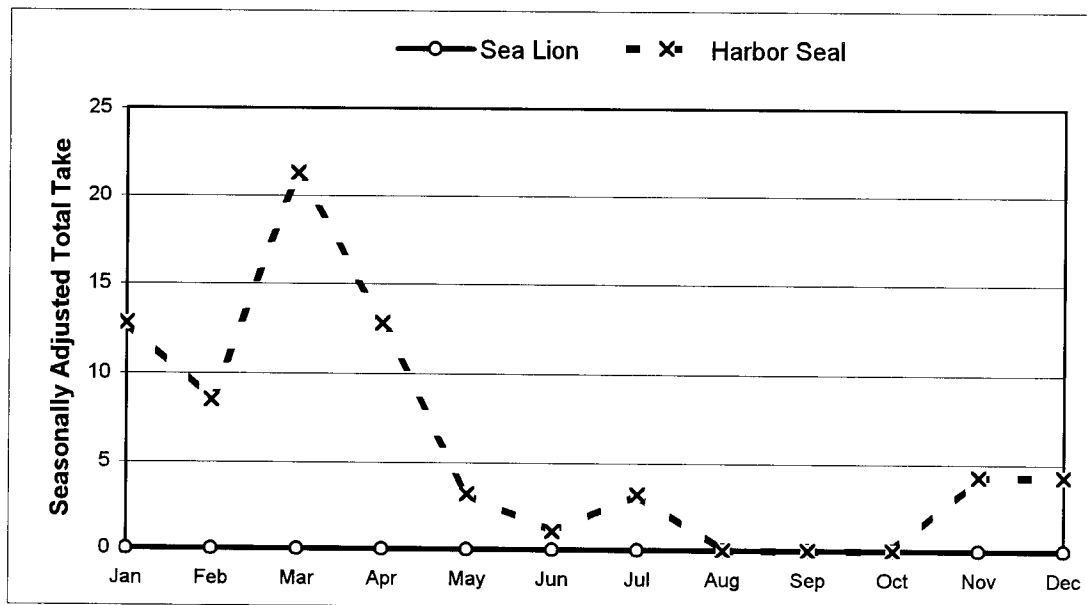
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Klawock Cooperative Association and Klawock Heenya Corporation, 2001.

Table 9. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Klawock, 2001

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	---	35	52.2%	37.3	52.2%
Adult Female	0	---	0.0	---	9	13.4%	9.6	13.4%
Adult Unknown Sex	0	---	0.0	---	1	1.5%	1.1	1.5%
Juvenile Male	0	---	0.0	---	19	28.4%	20.3	28.4%
Juvenile Female	0	---	0.0	---	3	4.5%	3.2	4.5%
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	---	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	---	67	100.0%	71.5	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	1.4	0.0	1.4	1992	39.0	1.4	40.3
1993	0.0	0.0	0.0	1993	39.8	0.0	39.8
1994	0.0	0.0	0.0	1994	71.1	0.0	71.1
1995	0.0	0.0	0.0	1995	263.8	9.0	263.8
1996	0.0	0.0	0.0	1996	69.8	0.0	69.8
1997	0.0	0.0	0.0	1997	94.0	0.0	94.0
1998	0.0	0.0	0.0	1998	83.0	0.0	83.0
2000	1.3	0.0	1.3	2000	67.1	0.0	67.1
2001	0.0	0.0	0.0	2001	71.5	0.0	71.5

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, 2001.

Table 10. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Klukwan, 2001

SAMPLING DESIGN:

CHAIN REFERRAL

Total Referred Households	8
Surveyed Households	3
Sampling Fraction	37.5%
Sample Household Members	9
Estimated Household Members	24.0
Estimated Native Population	123

HARVEST AND USE INFORMATION

Percentage of Sample Households:

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

**Estimated Community Harvest
and Take (Expanded):**

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

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

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

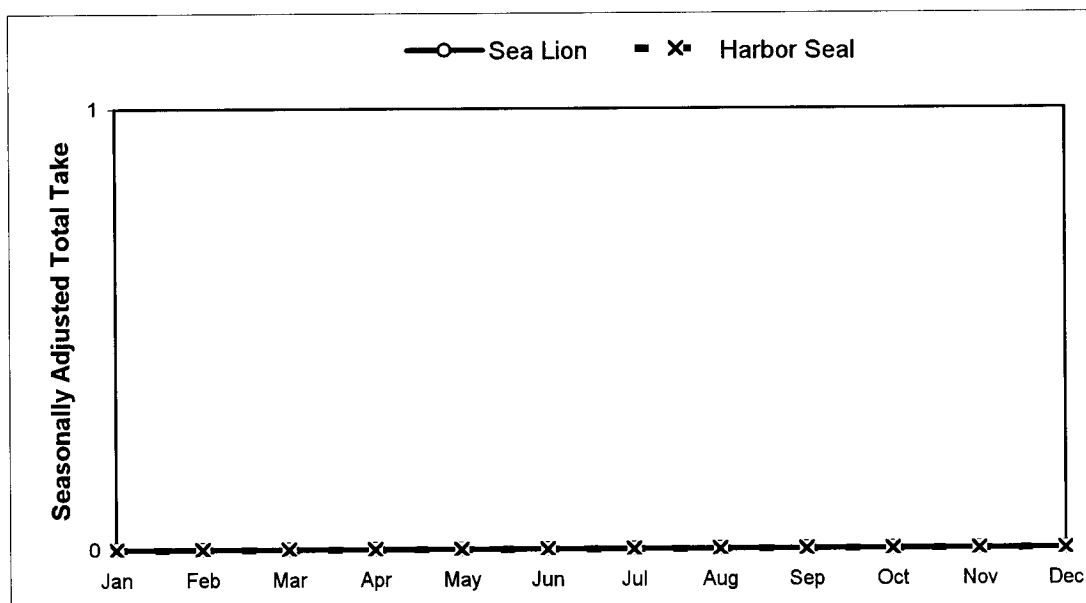
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Chilkat Indian Village, 2001.

Table 10. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Klukwan, 2001

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	---
Adult Female	0	---	0.0	---	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---
Juvenile Male	0	---	0.0	---	0	---	0.0	---
Juvenile Female	0	---	0.0	---	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---	0	---	0.0	---
Pup Male	0	---	0.0	---	0	---	0.0	---
Pup Female	0	---	0.0	---	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---	0	---	0.0	---
Male Unknown Age	0	---	0.0	---	0	---	0.0	---
Female Unknown Age	0	---	0.0	---	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---	0	---	0.0	---
Total	0	---	0.0	---	0	---	0.0	---

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/		Year	Harvest	Struck/	
		Lost	Total Take			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	9.0	41.6
1996	0.0	0.0	0.0	1996	6.3	0.0	6.3
1997	0.0	0.0	0.0	1997	1.1	0.0	1.1
1998	0.0	0.0	0.0	1998	10.5	0.0	10.5
2000	0.0	0.0	0.0	2000	18.0	0.0	18.0
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0

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, 2001.

Table 11. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Pelican, 2001**SAMPLING DESIGN:****CHAIN REFERRAL**

Total Referred Households	14
Surveyed Households	14
Sampling Fraction	100.0%
Sample Household Members	30
Estimated Household Members	30.0
Estimated Native Population	42

HARVEST AND USE INFORMATION**Percentage of Sample Households:**

	Sea Lion	Harbor Seal
Used	0.0%	92.9%
Hunted	0.0%	50.0%
Harvested	0.0%	50.0%
Received	0.0%	50.0%
Gave Away	0.0%	78.6%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	9.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	9.0
Number Harvested Per Capita	0.00	0.21

SEA LION HARVEST BY MONTH													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	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		

HARBOR SEAL HARVEST BY MONTH													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	1	1	0	0	1	1	2	2	0	0	9
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	1	1	1	0	0	1	1	2	2	0	0	9
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	2.0	2.0	0.0	0.0	9.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	2.0	2.0	0.0	0.0	9.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	2.0	2.0	0.0		9.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	2.0	2.0	0.0		9.0
Total Take (%)	0.0%	0.0%	11.1%	11.1%	11.1%	0.0%	0.0%	11.1%	11.1%	22.2%	22.2%	0.0%		100.0%
Cum. Take	0.0	0.0	1.0	2.0	3.0	3.0	3.0	4.0	5.0	7.0	9.0	9.0		
Cum. Take (%)	0.0%	0.0%	11.1%	22.2%	33.3%	33.3%	33.3%	44.4%	55.6%	77.8%	100.0%	100.0%		

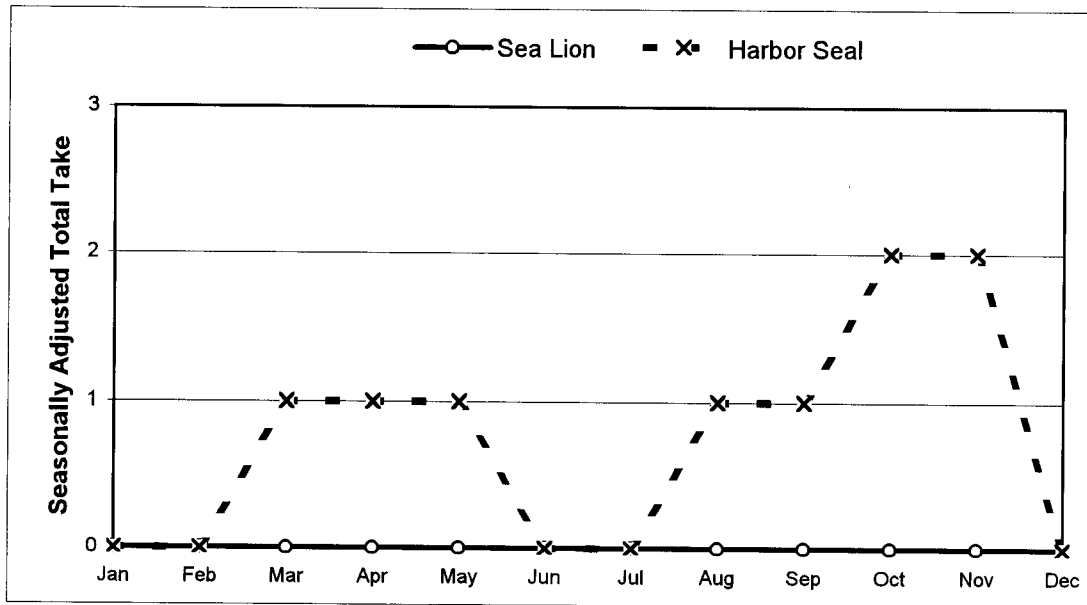
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the City of Pelican, Tlingit and Haida Indians of Pelican Community Council, 2001.

Table 11. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Pelican, 2001

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	---	7	77.8%	7.0	77.8%
Adult Female	0	---	0.0	---	2	22.2%	2.0	22.2%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	9	100.0%	9.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	8.3	1.4	9.7
1993	0.0	0.0	0.0	1993	5.3	1.1	6.4
1994	0.0	0.0	0.0	1994	4.4	1.1	5.6
1995	0.0	0.0	0.0	1995	13.5	9.0	13.5
1996	0.0	0.0	0.0	1996	15.4	0.0	15.4
1997	0.0	0.0	0.0	1997	14.5	0.0	14.5
1998	0.0	0.0	0.0	1998	15.8	2.4	18.2
2000	0.0	0.0	0.0	2000	7.5	0.0	7.5
2001	0.0	0.0	0.0	2001	9.0	0.0	9.0

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, 2001.

Table 12. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Petersburg, 2001**SAMPLING DESIGN:****CHAIN REFERRAL**

Total Referred Households	30
Surveyed Households	30
Sampling Fraction	100.0%
Sample Household Members	100
Estimated Household Members	100.0
Estimated Native Population	388

HARVEST AND USE INFORMATION**Percentage of Sample Households:**

	Sea Lion	Harbor Seal
Used	0.0%	93.3%
Hunted	0.0%	73.3%
Harvested	0.0%	36.7%
Received	0.0%	56.7%
Gave Away	0.0%	40.0%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	16.0
Total Number Struck and Lost	0.0	22.0
Total Number Taken	0.0	38.0
Number Harvested Per Capita	0.00	0.04

SEA LION HARVEST BY MONTH														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	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	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	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			

HARBOR SEAL HARVEST BY MONTH														Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	5	2	0	0	0	0	0	0	2	3	1	3	0	0	16
Struck & Lost	3	0	0	0	0	0	0	0	6	4	6	3	0	0	22
Total Take	8	2	0	0	0	0	0	0	8	7	7	6	0	0	38
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	1.0	3.0	0.0	0.0	16.0
Struck & Lost	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	4.0	6.0	3.0	0.0	0.0	22.0
Total Take	8.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	7.0	7.0	6.0	0.0	0.0	38.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	1.0	3.0			16.0
Struck & Lost	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	4.0	6.0	3.0			22.0
Total Take	8.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	7.0	7.0	6.0			38.0
Total Take (%)	21.1%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	21.1%	18.4%	18.4%	15.8%			100.0%
Cum. Take	8.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	18.0	25.0	32.0	38.0			
Cum. Take (%)	21.1%	26.3%	26.3%	26.3%	26.3%	26.3%	26.3%	26.3%	47.4%	65.8%	84.2%	100.0%			

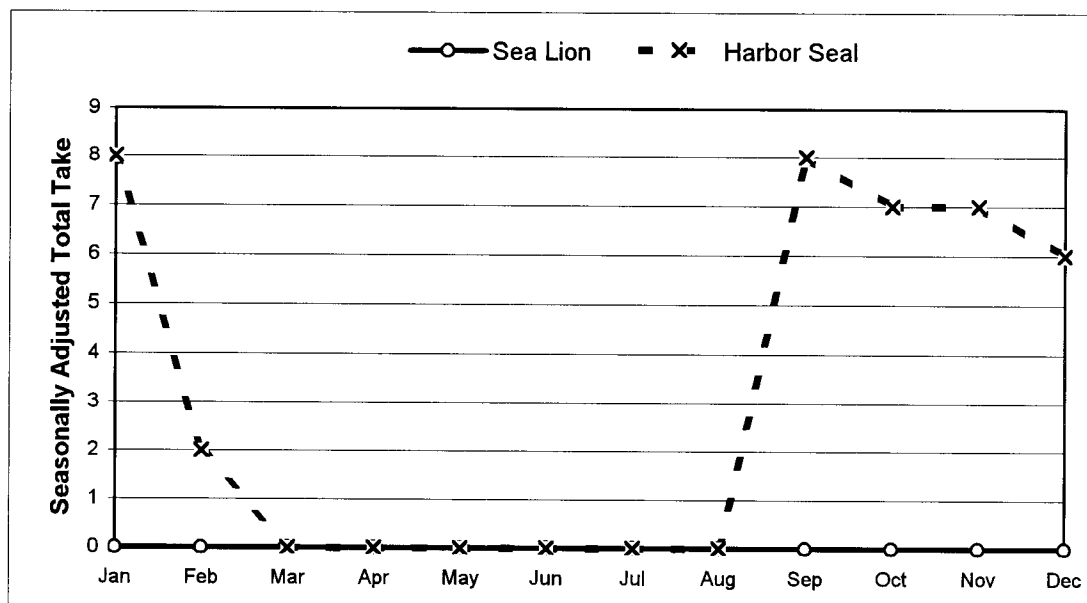
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Petersburg Indian Association, 2001.

Table 12. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Petersburg, 2001

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	5	31.3%	5.0	31.3%
Adult Female	0	---	0.0	---	6	37.5%	6.0	37.5%
Adult Unknown Sex	0	---	0.0	---	1	6.3%	1.0	6.3%
Juvenile Male	0	---	0.0	---	3	18.8%	3.0	18.8%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	1	6.3%	1.0	6.3%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	16	100.0%	16.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	22.4	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	9.0	14.7
1996	0.0	0.0	0.0	1996	19.5	2.4	21.9
1997	0.0	0.0	0.0	1997	11.8	4.3	16.2
1998	0.0	0.0	0.0	1998	23.9	9.3	33.2
2000	0.0	0.0	0.0	2000	20.7	7.2	27.9
2001	0.0	0.0	0.0	2001	16.0	22.0	38.0

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, 2001.

Table 13. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Saxman, 2001

SAMPLING DESIGN:

CHAIN REFERRAL

Total Referred Households	20
Surveyed Households	17
Sampling Fraction	85.0%
Sample Household Members	50
Estimated Household Members	58.8
Estimated Native Population	302

HARVEST AND USE INFORMATION

Percentage of Sample Households:

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

*Estimated Community Harvest
and Take (Expanded):*

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	12.9
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	12.9
Number Harvested Per Capita	0.00	0.04

SEA LION HARVEST BY MONTH														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	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	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	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			

HARBOR SEAL HARVEST BY MONTH														Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	3	3	0	0	0	0	0	0	1	0	2	2	0	0	11
Struck & Lost	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	1	0	2	2	0	0	11
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.4	2.4	0.0	0.0	12.9
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	0.0
Total Take	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.4	2.4	0.0	0.0	12.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.4	2.4			12.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.4	2.4			12.9
Total Take (%)	27.3%	27.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.1%	0.0%	18.2%	18.2%			100.0%
Cum. Take	3.5	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.2	8.2	10.6	12.9			
Cum. Take (%)	27.3%	54.5%	54.5%	54.5%	54.5%	54.5%	54.5%	54.5%	63.6%	63.6%	81.8%	100.0%			

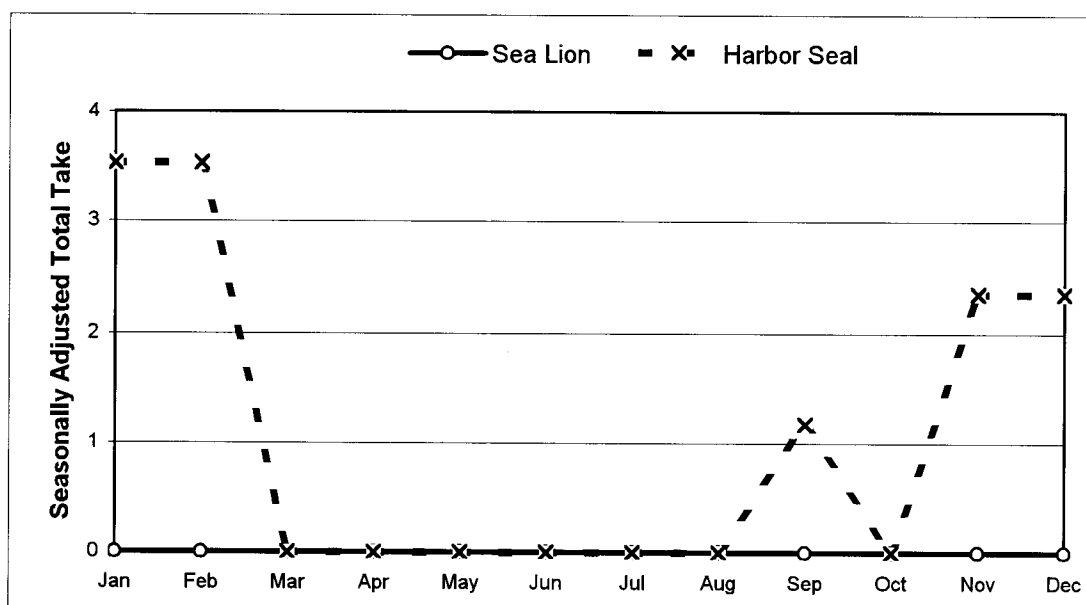
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the City of Saxman and Saxman IRA Council, 2001.

Table 13. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Saxman, 2001

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	72.7%	9.4	72.7%
Adult Female	0	---	0.0	---	3	27.3%	3.5	27.3%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	11	100.0%	12.9	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	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	9.0	15.9
1996	0.0	0.0	0.0	1996	4.9	0.0	4.9
1997	0.0	0.0	0.0	1997	11.0	0.0	11.0
1998	0.0	0.0	0.0	1998	19.6	0.0	19.6
2000	0.0	0.0	0.0	2000	45.6	1.9	47.5
2001	0.0	0.0	0.0	2001	12.9	0.0	12.9

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, 2001.

Table 14. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Sitka, 2001**SAMPLING DESIGN:
CHAIN REFERRAL**

Total Referred Households	83
Surveyed Households	43
Sampling Fraction	51.8%
Sample Household Members	121
Estimated Household Members	233.6
Estimated Native Population	2178

HARVEST AND USE INFORMATION*Percentage of Sample Households:*

	Sea Lion	Harbor Seal
Used	0.0%	83.7%
Hunted	0.0%	60.5%
Harvested	0.0%	60.5%
Received	0.0%	39.5%
Gave Away	0.0%	72.1%

*Estimated Community Harvest
and Take (Expanded):*

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	241.3
Total Number Struck and Lost	0.0	32.8
Total Number Taken	0.0	274.1
Number Harvested Per Capita	0.00	0.11

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	4	5	7	12	0	2	2	1	18	34	28	12	0	125
Struck & Lost	0	0	0	0	0	0	0	2	2	4	6	3	0	17
Total Take	4	5	7	12	0	2	2	3	20	38	34	15	0	142
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	7.7	9.7	13.5	23.2	0.0	3.9	3.9	1.9	34.7	65.6	54.0	23.2	0.0	241.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	3.9	7.7	11.6	5.8	0.0	32.8
Total Take	7.7	9.7	13.5	23.2	0.0	3.9	3.9	5.8	38.6	73.3	65.6	29.0	0.0	274.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	7.7	9.7	13.5	23.2	0.0	3.9	3.9	1.9	34.7	65.6	54.0	23.2		241.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	3.9	7.7	11.6	5.8		32.8
Total Take	7.7	9.7	13.5	23.2	0.0	3.9	3.9	5.8	38.6	73.3	65.6	29.0		274.1
Total Take (%)	2.8%	3.5%	4.9%	8.5%	0.0%	1.4%	1.4%	2.1%	14.1%	26.8%	23.9%	10.6%		100.0%
Cum. Take	7.7	17.4	30.9	54.0	54.0	57.9	61.8	67.6	106.2	179.5	245.1	274.1		
Cum. Take (%)	2.8%	6.3%	11.3%	19.7%	19.7%	21.1%	22.5%	24.6%	38.7%	65.5%	89.4%	100.0%		

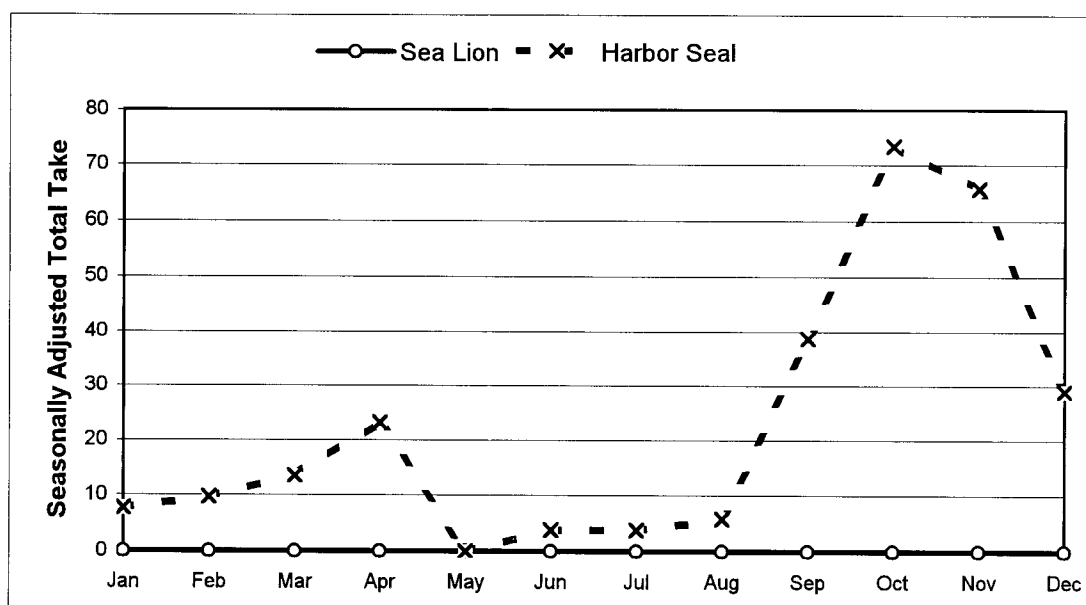
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the ANB and Sitka Tribal Association, 2001.

Table 14. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Sitka, 2001

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	15.2%	36.7	15.2%
Adult Female	0	---	0.0	---	31	24.8%	59.8	24.8%
Adult Unknown Sex	0	---	0.0	---	66	52.8%	127.4	52.8%
Juvenile Male	0	---	0.0	---	5	4.0%	9.7	4.0%
Juvenile Female	0	---	0.0	---	1	0.8%	1.9	0.8%
Juvenile Unknown Sex	0	---	0.0	---	3	2.4%	5.8	2.4%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	125	100.0%	241.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	3.8	1.3	5.0	1992	124.7	21.4	146.1
1993	0.0	1.1	1.1	1993	109.3	20.6	129.9
1994	1.1	1.1	2.2	1994	110.5	20.1	130.6
1995	0.0	0.0	0.0	1995	93.8	9.0	100.0
1996	0.0	0.0	0.0	1996	126.8	4.1	130.9
1997	0.0	0.0	0.0	1997	150.6	3.7	154.3
1998	3.3	4.4	7.6	1998	237.6	29.4	267.0
2000	0.0	0.0	0.0	2000	276.8	41.1	317.8
2001	0.0	0.0	0.0	2001	241.3	32.8	274.1

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, 2001.

Table 15. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Wrangell, 2001**SAMPLING DESIGN:****CHAIN REFERRAL**

Total Referred Households	9
Surveyed Households	9
Sampling Fraction	100.0%
Sample Household Members	24
Estimated Household Members	24.0
Estimated Native Population	550

HARVEST AND USE INFORMATION*Percentage of Sample Households:*

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	22.2%
Hunted	0.0%	33.3%
Harvested	0.0%	22.2%
Received	0.0%	0.0%
Gave Away	0.0%	22.2%

*Estimated Community Harvest
and Take (Expanded):*

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	16.0
Total Number Struck and Lost	0.0	29.0
Total Number Taken	0.0	45.0
Number Harvested Per Capita	0.00	0.03

SEA LION HARVEST BY MONTH													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	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		

HARBOR SEAL HARVEST BY MONTH													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	6	10	0	0	0	0	0	0	0	0	16
Struck & Lost	0	0	0	7	11	3	8	0	0	0	0	0	0	29
Total Take	0	0	0	13	21	3	8	0	0	0	0	0	0	45
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	6.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0
Struck & Lost	0.0	0.0	0.0	7.0	11.0	3.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0
Total Take	0.0	0.0	0.0	13.0	21.0	3.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	45.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	6.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		16.0
Struck & Lost	0.0	0.0	0.0	7.0	11.0	3.0	8.0	0.0	0.0	0.0	0.0	0.0		29.0
Total Take	0.0	0.0	0.0	13.0	21.0	3.0	8.0	0.0	0.0	0.0	0.0	0.0		45.0
Total Take (%)	0.0%	0.0%	0.0%	28.9%	46.7%	6.7%	17.8%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	13.0	34.0	37.0	45.0	45.0	45.0	45.0	45.0	45.0		
Cum. Take (%)	0.0%	0.0%	0.0%	28.9%	75.6%	82.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

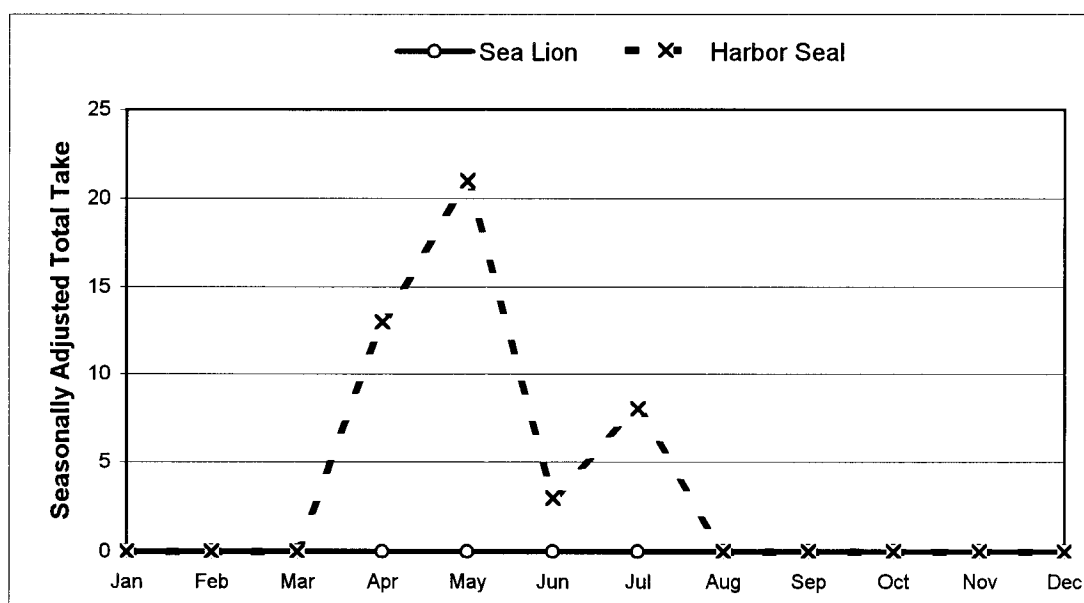
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Wrangell Cooperative Association, 2001.

Table 15. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Wrangell, 2001

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	37.5%	6.0	37.5%
Adult Female	0	---	0.0	---	10	62.5%	10.0	62.5%
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%
Total	0	---	0.0	---	16	100.0%	16.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	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	9.0	112.0
1996	0.0	0.0	0.0	1996	79.3	22.2	101.5
1997	0.0	0.0	0.0	1997	68.8	29.2	98.0
1998	0.0	0.0	0.0	1998	174.0	30.0	204.0
2000	0.0	0.0	0.0	2000	28.5	12.0	40.5
2001	0.0	0.0	0.0	2001	16.0	29.0	45.0

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, 2001.

Table 16. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Yakutat, 2001**SAMPLING DESIGN:
CHAIN REFERRAL**

Total Referred Households	49
Surveyed Households	42
Sampling Fraction	85.7%
Sample Household Members	127
Estimated Household Members	148.2
Estimated Native Population	375

HARVEST AND USE INFORMATION*Percentage of Sample Households:*

	Sea Lion	Harbor Seal
Used	0.0%	85.7%
Hunted	0.0%	73.8%
Harvested	0.0%	71.4%
Received	0.0%	76.2%
Gave Away	0.0%	73.8%

*Estimated Community Harvest
and Take (Expanded):*

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	208.8
Total Number Struck and Lost	0.0	36.2
Total Number Taken	0.0	245.0
Number Harvested Per Capita	0.00	0.56

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	3	12	29	30	3	8	9	10	15	17	20	20	179
Struck & Lost	0	0	1	7	3	0	1	3	3	5	1	2	5	31
Total Take	3	3	13	36	33	3	9	12	13	20	18	22	25	210
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.5	3.5	14.0	33.8	35.0	3.5	9.3	10.5	11.7	17.5	19.8	23.3	23.3	208.8
Struck & Lost	0.0	0.0	1.2	8.2	3.5	0.0	1.2	3.5	3.5	5.8	1.2	2.3	5.8	36.2
Total Take	3.5	3.5	15.2	42.0	38.5	3.5	10.5	14.0	15.2	23.3	21.0	25.7	29.2	245.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.9	3.9	15.8	38.1	39.4	3.9	10.5	11.8	13.1	19.7	22.3	26.3		208.8
Struck & Lost	0.0	0.0	1.4	9.7	4.2	0.0	1.4	4.2	4.2	7.0	1.4	2.8		36.2
Total Take	3.9	3.9	17.2	47.8	43.6	3.9	11.9	16.0	17.3	26.7	23.7	29.1		245.0
Total Take (%)	1.6%	1.6%	7.0%	19.5%	17.8%	1.6%	4.9%	6.5%	7.1%	10.9%	9.7%	11.9%		100.0%
Cum. Take	3.9	7.9	25.0	72.9	116.4	120.4	132.3	148.3	165.6	192.2	215.9	245.0		
Cum. Take (%)	1.6%	3.2%	10.2%	29.7%	47.5%	49.1%	54.0%	60.5%	67.6%	78.5%	88.1%	100.0%		

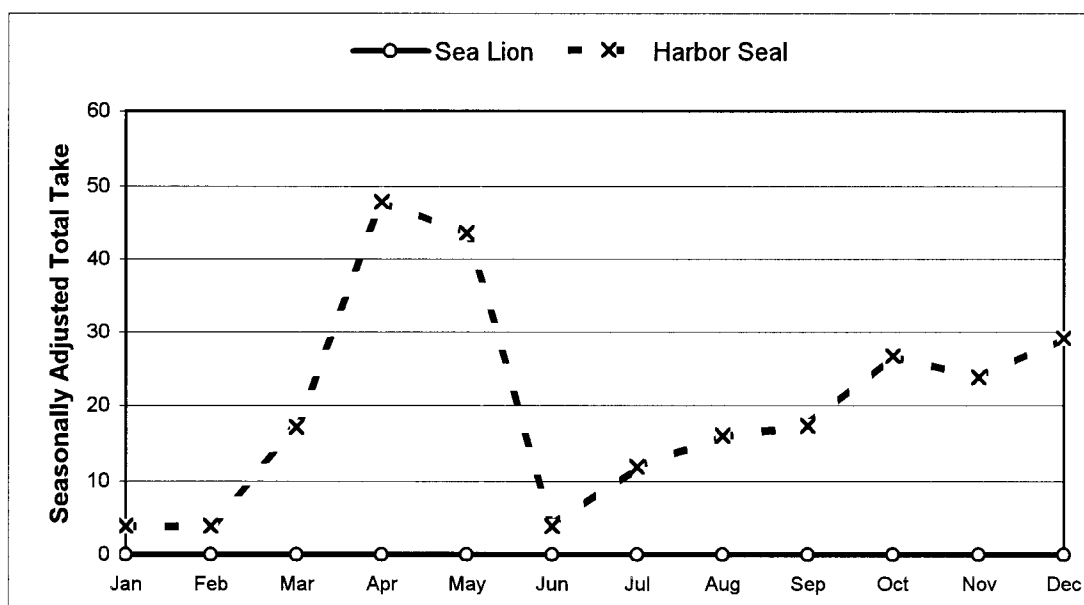
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Yakutat ANB/ANS, Yakutat Native Association, and Yak-Tat Kwaan, Inc., 2001.

Table 16. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Yakutat, 2001

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	---	82	45.8%	95.7	45.8%
Adult Female	0	---	0.0	---	65	36.3%	75.8	36.3%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	9	5.0%	10.5	5.0%
Juvenile Female	0	---	0.0	---	3	1.7%	3.5	1.7%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	20	11.2%	23.3	11.2%
Total	0	---	0.0	---	179	100.0%	208.8	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/	Total	Year	Harvest	Struck/	Total
		Lost	Take			Lost	Take
1992	0.0	0.0	0.0	1992	248.0	61.3	309.3
1993	0.0	0.0	0.0	1993	568.4	57.4	625.8
1994	0.0	0.0	0.0	1994	417.1	35.0	452.1
1995	0.0	0.0	0.0	1995	615.5	9.0	695.1
1996	0.0	0.0	0.0	1996	640.3	124.1	764.5
1997	0.0	0.0	0.0	1997	491.5	139.9	631.5
1998	0.0	0.0	0.0	1998	289.0	72.3	361.3
2000	0.0	0.0	0.0	2000	193.3	56.8	250.1
2001	0.0	0.0	0.0	2001	208.8	36.2	245.0

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., 2001.

Table 17. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Chenega Bay, 2001

SAMPLING DESIGN:

CENSUS

Total Native Households	13
Surveyed Households	11
Sampling Fraction	84.6%
Sample Household Members	30
Estimated Household Members	35.5
Estimated Native Population	67.0

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	45.5%	81.8%
Hunted	9.1%	36.4%
Harvested	9.1%	27.3%
Received	45.5%	81.8%
Gave Away	36.4%	54.5%

*Estimated Community Harvest
and Take (Expanded):*

	Sea Lion	Harbor Seal
Total Number Harvested	1.2	13.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	1.2	13.0
Number Harvested Per Capita	0.02	0.19

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	3	0	1	4	0	2	0	1	0	11
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	3	0	1	4	0	2	0	1	0	11
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	3.5	0.0	1.2	4.7	0.0	2.4	0.0	1.2	0.0	13.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	3.5	0.0	1.2	4.7	0.0	2.4	0.0	1.2	0.0	13.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	3.5	0.0	1.2	4.7	0.0	2.4	0.0	1.2		13.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	3.5	0.0	1.2	4.7	0.0	2.4	0.0	1.2		13.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	27.3%	0.0%	9.1%	36.4%	0.0%	18.2%	0.0%	9.1%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	3.5	3.5	4.7	9.5	9.5	11.8	11.8	13.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	27.3%	27.3%	36.4%	72.7%	72.7%	90.9%	90.9%	100.0%		

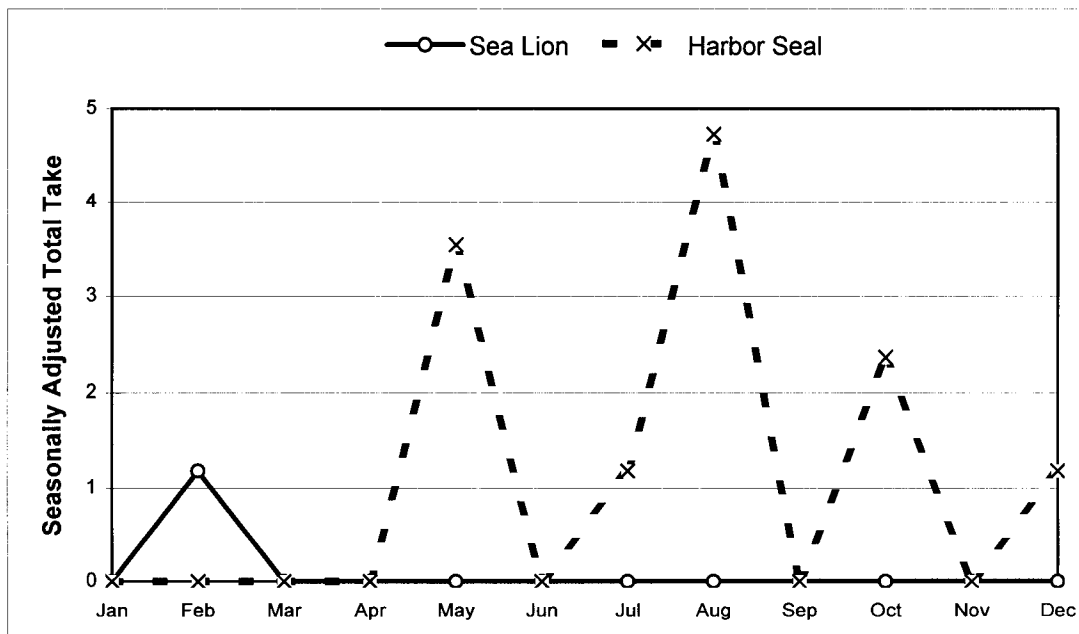
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chenega Bay IRA Council, 2001.

Table 17. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chenega Bay, 2001

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	100.0%	1.2	100.0%	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%	1	9.1%	1.2	9.1%
Adult Unknown Sex	0	0.0%	0.0	0.0%	4	36.4%	4.7	36.4%
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%	6	54.5%	7.1	54.5%
Total	1	100.0%	1.2	100.0%	11	100.0%	13.0	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	6.9	1.2	8.1	1992	42.6	2.3	44.9
1993	11.1	6.6	17.7	1993	60.8	2.2	63.0
1994	6.6	0.0	6.6	1994	42.0	3.9	45.9
1995	6.6	0.0	6.6	1995	44.4	1.6	46.0
1996	2.0	0.0	2.0	1996	16.0	3.0	19.0
1997	0.0	0.0	0.0	1997	25.7	0.0	25.7
1998	0.0	0.0	0.0	1998	15.6	0.0	15.6
2000	0.0	0.0	0.0	2000	15.0	0.0	15.0
2001	1.2	0.0	1.2	2001	13.0	0.0	13.0

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, 2001.

Table 18. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Cordova, 2001

SAMPLING DESIGN:

CHAIN REFERRAL

Total Referred Households	14
Surveyed Households	12
Sampling Fraction	85.7%
Sample Household Members	32
Estimated Household Members	37.3
Estimated Native Population	368

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	16.7%	75.0%
Hunted	16.7%	75.0%
Harvested	16.7%	75.0%
Received	0.0%	33.3%
Gave Away	16.7%	66.7%

*Estimated Community Harvest
and Take (Expanded):*

	Sea Lion	Harbor Seal
Total Number Harvested	3.5	102.7
Total Number Struck and Lost	0.0	5.8
Total Number Taken	3.5	108.5
Number Harvested Per Capita	0.01	0.28

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	1	0	0	0	2	0	0	3
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	1	0	0	0	2	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	2.3	0.0	0.0	3.5
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	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	2.3	0.0	0.0	3.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	2.3	0.0		3.5
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	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	2.3	0.0		3.5
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	66.7%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	3.5	3.5		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	33.3%	33.3%	33.3%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	12	19	8	0	1	3	11	4	2	6	6	16	0	88
Struck & Lost	2	0	0	0	0	0	2	1	0	0	0	0	0	5
Total Take	14	19	8	0	1	3	13	5	2	6	6	16	0	93
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	14.0	22.2	9.3	0.0	1.2	3.5	12.8	4.7	2.3	7.0	7.0	18.7	0.0	102.7
Struck & Lost	2.3	0.0	0.0	0.0	0.0	0.0	2.3	1.2	0.0	0.0	0.0	0.0	0.0	5.8
Total Take	16.3	22.2	9.3	1.2	1.2	3.5	15.2	5.8	2.3	7.0	7.0	18.7	0.0	108.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	14.0	22.2	9.3	0.0	1.2	3.5	12.8	4.7	2.3	7.0	7.0	18.7		102.7
Struck & Lost	2.3	0.0	0.0	0.0	0.0	0.0	2.3	1.2	0.0	0.0	0.0	0.0		5.8
Total Take	16.3	22.2	9.3	0.0	1.2	3.5	15.2	5.8	2.3	7.0	7.0	18.7		108.5
Total Take (%)	15.1%	20.4%	8.6%	0.0%	1.1%	3.2%	14.0%	5.4%	2.2%	6.5%	6.5%	17.2%		100.0%
Cum. Take	16.3	38.5	47.8	47.8	49.0	52.5	67.7	73.5	75.8	82.8	89.8	108.5		
Cum. Take (%)	15.1%	35.5%	44.1%	44.1%	45.2%	48.4%	62.4%	67.7%	69.9%	76.3%	82.8%	100.0%		

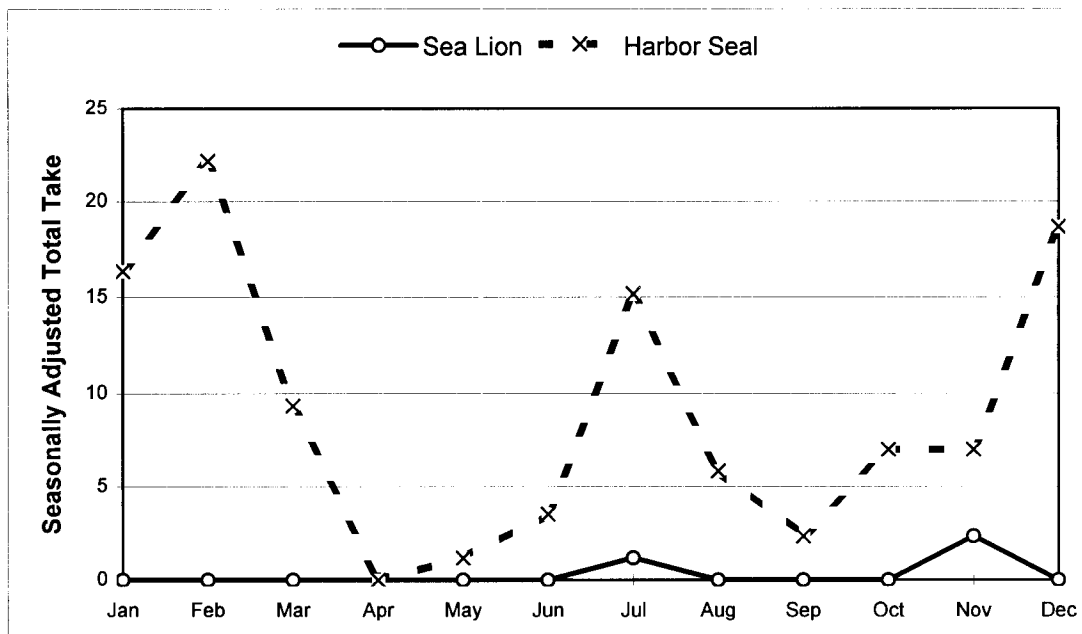
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Traditional Village of Eyak, 2001.

Table 18. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Cordova, 2001

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	33.3%	1.2	33.3%	47	53.4%	54.8	53.4%
Adult Female	0	0.0%	0.0	0.0%	18	20.5%	21.0	20.5%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	2	66.7%	2.3	66.7%	16	18.2%	18.7	18.2%
Juvenile Female	0	0.0%	0.0	0.0%	7	8.0%	8.2	8.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	3	100.0%	3.5	100.0%	88	100.0%	102.7	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	103.8	8.8	112.5
1993	1.5	0.0	1.5	1993	147.4	5.5	152.9
1994	0.0	0.0	0.0	1994	135.8	9.1	144.9
1995	0.0	1.0	1.0	1995	83.4	2.0	85.4
1996	0.0	0.0	0.0	1996	122.2	8.6	130.8
1997	0.0	0.0	0.0	1997	120.8	0.0	120.8
1998	0.0	0.0	0.0	1998	79.1	9.3	88.3
2000	0.0	0.0	0.0	2000	87.8	14.0	101.8
2001	3.5	0.0	3.5	2001	102.7	5.8	108.5

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, 2001.

Table 19. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Nanwalek, 2001

SAMPLING DESIGN:

CENSUS

Total Native Households	51
Surveyed Households	41
Sampling Fraction	80.4%
Sample Household Members	173
Estimated Household Members	215.5
Estimated Native Population	165

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	31.7%	100.0%
Hunted	4.9%	14.6%
Harvested	4.9%	14.6%
Received	29.3%	100.0%
Gave Away	14.6%	19.5%

*Estimated Community Harvest
and Take (Expanded):*

	Sea Lion	Harbor Seal
Total Number Harvested	3.7	42.3
Total Number Struck and Lost	0.0	1.2
Total Number Taken	3.7	43.5
Number Harvested Per Capita	0.02	0.26

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	3	0	0	3
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	3	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	3.7
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	3.7	0.0		3.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0		3.7
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	3.7		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	2	0	0	2	6	8	7	1	7	1	0	0	34
Struck & Lost	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Total Take	0	2	0	0	2	6	9	7	1	7	1	0	0	35
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.5	0.0	0.0	2.5	7.5	10.0	8.7	1.2	8.7	1.2	0.0	0.0	42.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Total Take	0.0	2.5	0.0	2.5	2.5	7.5	11.2	8.7	1.2	8.7	1.2	0.0	0.0	43.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	2.5	0.0	0.0	2.5	7.5	10.0	8.7	1.2	8.7	1.2	0.0		42.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0		1.2
Total Take	0.0	2.5	0.0	0.0	2.5	7.5	11.2	8.7	1.2	8.7	1.2	0.0		43.5
Total Take (%)	0.0%	5.7%	0.0%	0.0%	5.7%	17.1%	25.7%	20.0%	2.9%	20.0%	2.9%	0.0%		100.0%
Cum. Take	0.0	2.5	2.5	2.5	5.0	12.4	23.6	32.3	33.6	42.3	43.5	43.5		
Cum. Take (%)	0.0%	5.7%	5.7%	5.7%	11.4%	28.6%	54.3%	74.3%	77.1%	97.1%	100.0%	100.0%		

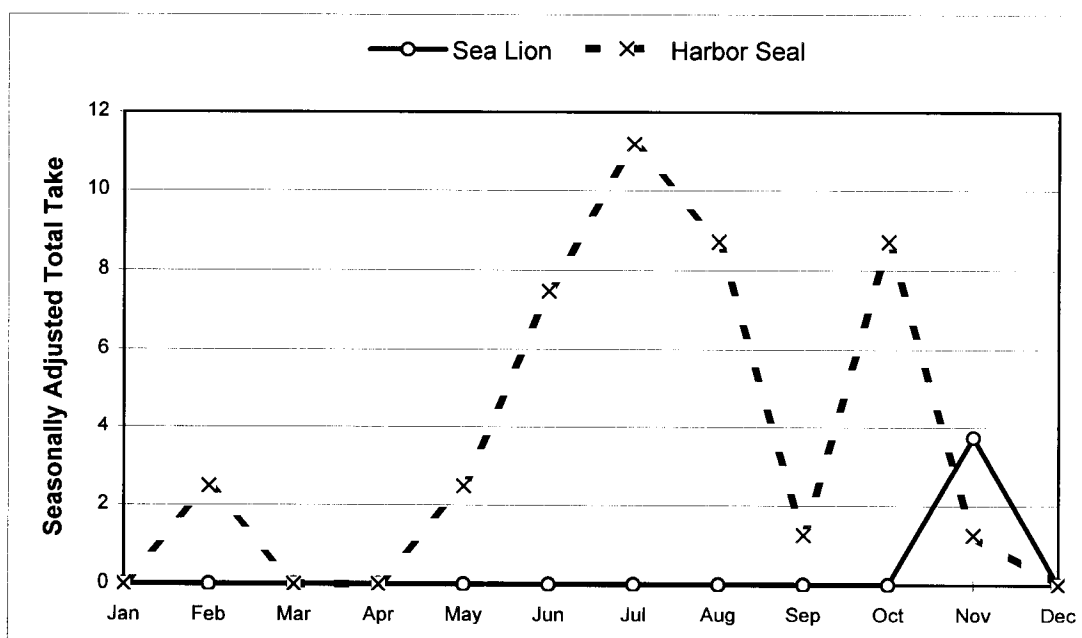
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nanwalek Traditional Council and English Bay Corporation, 2001.

Table 19. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Nanwalek, 2001

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%	4	11.8%	4.1	11.8%
Adult Female	1	33.3%	1.2	33.3%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	4	11.8%	4.1	11.8%
Juvenile Male	0	0.0%	0.0	0.0%	2	5.9%	2.0	5.9%
Juvenile Female	2	66.7%	2.5	66.7%	4	11.8%	4.1	11.8%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	20	58.8%	20.5	58.8%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	3	100.0%	3.7	100.0%	34	100.0%	34.8	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	6.3	0.0	6.3	1992	27.9	0.0	27.9
1993	8.5	1.1	9.5	1993	33.9	3.2	37.1
1994	1.2	2.3	3.5	1994	29.0	4.6	33.7
1995	9.2	0.0	9.2	1995	23.6	0.0	23.6
1996	4.3	1.1	5.3	1996	22.4	0.0	22.4
1997	0.0	0.0	0.0	1997	20.2	0.0	20.2
1998	2.1	0.0	2.1	1998	30.9	1.0	31.9
2000	6.5	0.0	6.5	2000	52.9	3.9	56.8
2001	3.7	0.0	3.7	2001	42.3	1.2	43.5

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, 2001.

Table 20. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Port Graham, 2001

SAMPLING DESIGN:

CENSUS

Total Native Households	58
Surveyed Households	28
Sampling Fraction	48.3%
Sample Household Members	72
Estimated Household Members	149.1
Estimated Native Population	151

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	14.3%	75.0%
Hunted	3.6%	32.1%
Harvested	0.0%	17.9%
Received	14.3%	71.4%
Gave Away	7.1%	35.7%

*Estimated Community Harvest
and Take (Expanded):*

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	39.4
Total Number Struck and Lost	0.0	8.3
Total Number Taken	0.0	47.6
Number Harvested Per Capita	0.00	0.26

SEA LION HARVEST BY MONTH														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	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	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	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			---

HARBOR SEAL HARVEST BY MONTH														Unknown 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	0	0	0	0	2	7	4	6	0	0	0	19
Struck & Lost	0	0	0	0	0	0	0	0	2	0	0	0	2		4
Total Take	0	0	0	0	0	0	0	2	9	4	6	0	2		23
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	14.5	8.3	12.4	0.0	0.0		39.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	4.1		8.3
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	18.6	8.3	12.4	0.0	4.1		47.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	14.5	8.3	12.4	0.0			39.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	0.0			8.3
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	22.8	8.3	12.4	0.0			47.6
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.7%	47.8%	17.4%	26.1%	0.0%			100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	26.9	35.2	47.6	47.6			
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.7%	56.5%	73.9%	100.0%	100.0%			

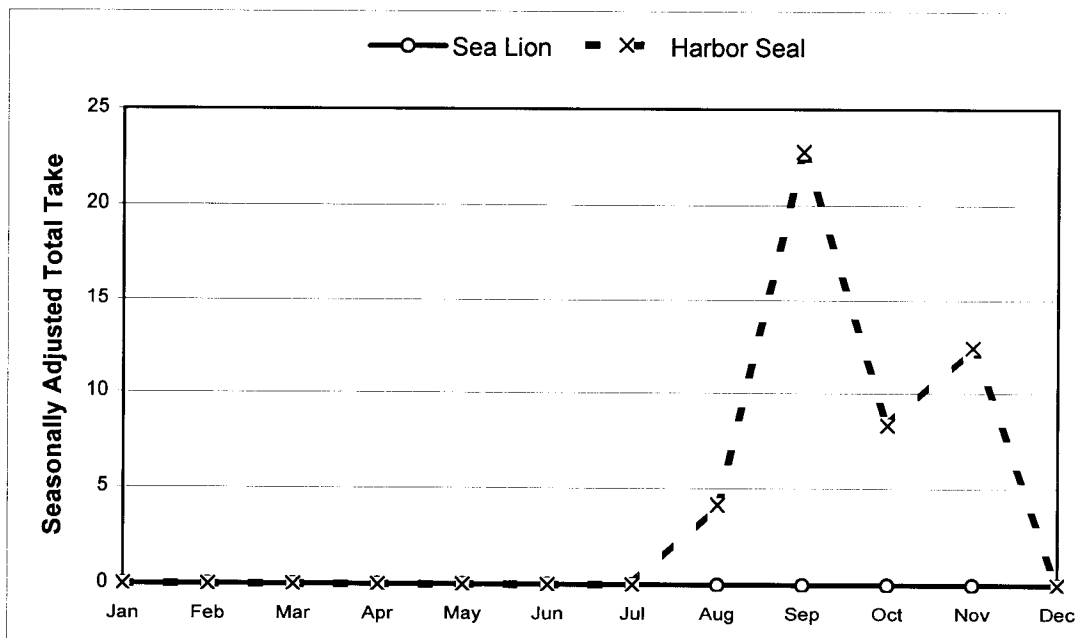
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Graham Village Council and Port Graham Corporation, 2001.

Table 20. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Graham, 2001

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	---	9	47.4%	18.6	47.4%
Adult Female	0	---	0.0	---	1	5.3%	2.1	5.3%
Adult Unknown Sex	0	---	0.0	---	2	10.5%	4.1	10.5%
Juvenile Male	0	---	0.0	---	6	31.6%	12.4	31.6%
Juvenile Female	0	---	0.0	---	1	5.3%	2.1	5.3%
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	---	19	100.0%	39.4	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	3.5	1.2	4.7	1992	36.2	4.7	40.8
1993	1.1	0.0	1.1	1993	30.6	3.2	33.7
1994	0.0	0.0	0.0	1994	15.5	5.2	20.7
1995	10.0	2.0	12.0	1995	23.0	0.0	23.0
1996	1.1	0.0	1.1	1996	15.5	2.2	17.7
1997	0.0	0.0	0.0	1997	15.8	3.2	19.0
1998	1.2	0.0	1.2	1998	52.3	3.6	55.9
2000	1.7	3.4	5.0	2000	40.2	1.7	41.9
2001	0.0	0.0	0.0	2001	39.4	8.3	47.6

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, 2001.

Table 21. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Seldovia, 2001

SAMPLING DESIGN:

CHAIN REFERRAL

Total Referred Households	10
Surveyed Households	10
Sampling Fraction	100.0%
Sample Household Members	21
Estimated Household Members	21.0
Estimated Native Population	66

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	50.0%
Hunted	0.0%	20.0%
Harvested	0.0%	10.0%
Received	0.0%	40.0%
Gave Away	0.0%	20.0%

*Estimated Community Harvest
and Take (Expanded):*

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	3.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	3.0
Number Harvested Per Capita	0.00	0.05

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	1	1	1	0	0	3
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	1	1	1	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	3.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	3.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0		3.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0		3.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	33.3%	33.3%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	3.0	3.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	66.7%	100.0%	100.0%		

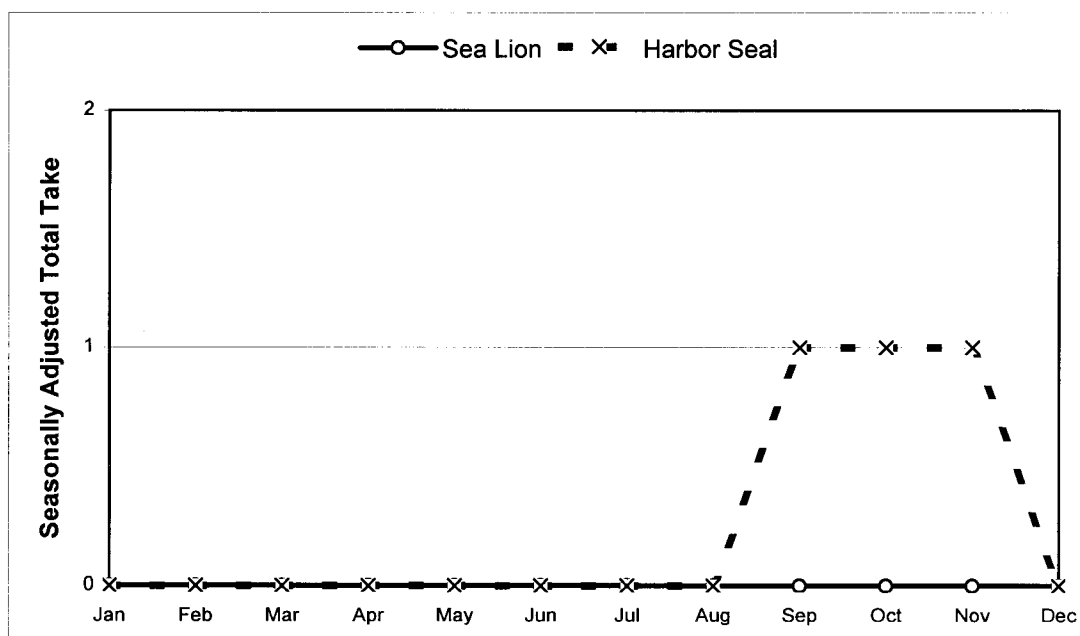
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Seldovia Native Association, 2001.

Table 21. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Seldovia, 2001

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	---	3	100.0%	3.0	100.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	3	100.0%	3.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	12.4	0.0	12.4
1993	0.0	0.0	0.0	1993	7.9	4.9	12.8
1994	0.0	0.0	0.0	1994	8.0	0.0	8.0
1995	0.0	0.0	0.0	1995	4.0	0.0	4.0
1996	0.0	0.0	0.0	1996	3.0	0.0	3.0
1997	1.7	0.0	1.7	1997	2.8	2.8	5.5
1998	0.0	0.0	0.0	1998	3.0	0.0	3.0
2000	0.0	0.0	0.0	2000	2.0	0.0	2.0
2001	0.0	0.0	0.0	2001	3.0	0.0	3.0

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, 2001.

Table 22. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Seward, 2001

SAMPLING DESIGN:		<u>Active</u>	<u>Other</u>	<u>Total</u>
TWO-STRATA				
	Total Native Households	9	41	50
	Surveyed Households	5	27	32
	Sampling Fraction	56%	65.9%	64.0%
	Sample Household Members	20	84	104
	Estimated Household Members	36.0	127.6	163.6
	Estimated Native Population	---	---	592

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	3.0%	53.3%	Total Number Harvested	0.0	0.0
Hunted	0.0%	3.0%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	0.0%	Total Number Taken	0.0	0.0
Received	3.0%	53.3%			
Gave Away	0.0%	29.0%	Number Harvested Per Capita	0.00	0.00

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

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

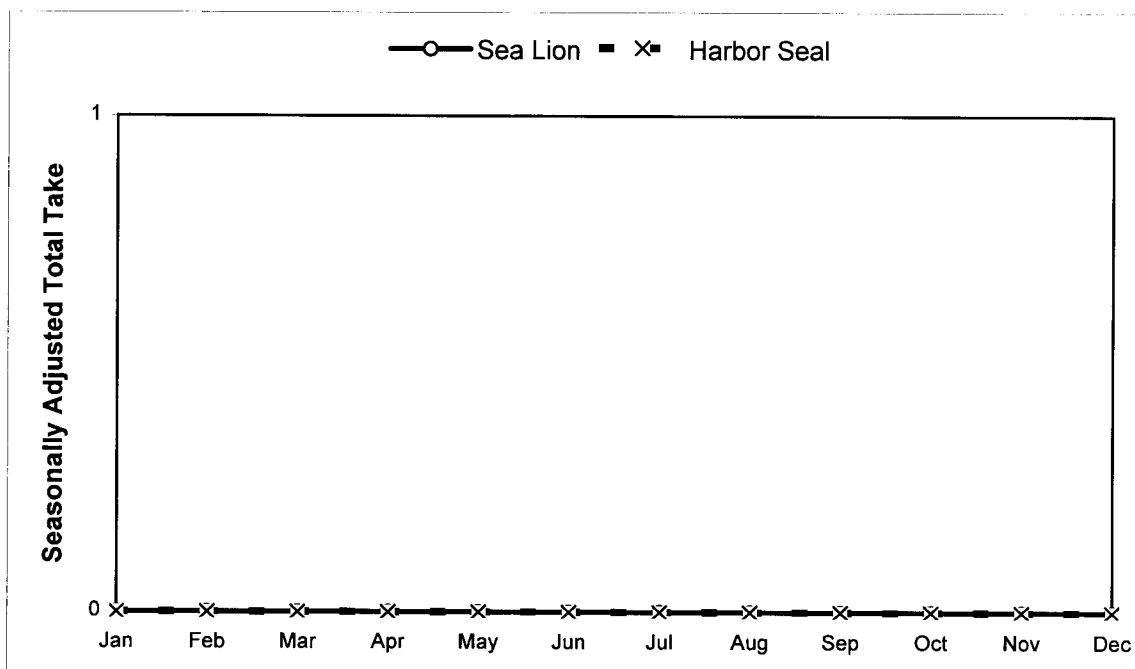
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Qutekcak Native Tribe, 2001.

Table 22. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Seward, 2001

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	---
Adult Female	0	---	0.0	---	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---
Juvenile Male	0	---	0.0	---	0	---	0.0	---
Juvenile Female	0	---	0.0	---	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---	0	---	0.0	---
Pup Male	0	---	0.0	---	0	---	0.0	---
Pup Female	0	---	0.0	---	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---	0	---	0.0	---
Male Unknown Age	0	---	0.0	---	0	---	0.0	---
Female Unknown Age	0	---	0.0	---	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---	0	---	0.0	---
Total	0	---	0.0	---	0	---	0.0	---

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/	Total	Year	Harvest	Struck/	Total
		Lost	Take			Lost	Take
1992	0.0	0.0	0.0	1992	2.0	0.0	2.0
1993	0.0	0.0	0.0	1993	0.0	0.0	0.0
1994	0.0	0.0	0.0	1994	5.0	0.0	5.0
1995	0.0	0.0	0.0	1995	10.9	5.5	16.4
1996	0.0	0.0	0.0	1996	5.6	0.0	5.6
1997	0.0	0.0	0.0	1997	0.0	0.0	0.0
1998	0.0	0.0	0.0	1998	0.0	0.0	0.0
2000	0.0	0.0	0.0	2000	4.0	0.0	4.0
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0

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 Qutekca Native Tribe, 2001.

Table 23. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Tatitlek, 2001**SAMPLING DESIGN:****CENSUS**

Total Native Households	30
Surveyed Households	19
Sampling Fraction	63.3%
Sample Household Members	63
Estimated Household Members	99.5
Estimated Native Population	91.0

HARVEST AND USE INFORMATION**Percentage of Native Households:**

	Sea Lion	Harbor Seal
Used	36.8%	78.9%
Hunted	10.5%	21.1%
Harvested	10.5%	21.1%
Received	36.8%	78.9%
Gave Away	31.6%	57.9%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	6.3	61.6
Total Number Struck and Lost	0.0	4.7
Total Number Taken	6.3	66.3
Number Harvested Per Capita	0.07	0.68

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	1	0	0	1	0	0	0	2	4
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	1	0	0	1	0	0	0	2	4
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	1.6	0.0	0.0	0.0	3.2	6.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	1.6	0.0	0.0	0.0	3.2	6.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	3.2	0.0	0.0	0.0		6.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	3.2	0.0	0.0	0.0		6.3
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	3.2	3.2	3.2	6.3	6.3	6.3	6.3		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	50.0%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	2	1	1	2	0	1	1	1	0	0	29	39
Struck & Lost	0	0	0	0	0	0	1	0	0	1	0	0	1	3
Total Take	1	0	2	1	1	2	1	1	1	2	0	0	30	42
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.6	0.0	3.2	1.6	1.6	3.2	0.0	1.6	1.6	1.6	0.0	0.0	45.8	61.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	1.6	0.0	0.0	1.6	4.7
Total Take	1.6	0.0	3.2	1.6	1.6	3.2	1.6	1.6	1.6	3.2	0.0	0.0	47.4	66.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.2	0.0	12.3	6.2	6.2	12.3	0.0	6.2	6.2	6.2	0.0	0.0		61.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	2.4	0.0	0.0		4.7
Total Take	6.2	0.0	12.3	6.2	6.2	12.3	2.4	6.2	6.2	8.5	0.0	0.0		66.3
Total Take (%)	9.3%	0.0%	18.6%	9.3%	9.3%	18.6%	3.6%	9.3%	9.3%	12.9%	0.0%	0.0%		100.0%
Cum. Take	6.2	6.2	18.5	24.6	30.8	43.1	45.5	51.6	57.8	66.3	66.3	66.3		
Cum. Take (%)	9.3%	9.3%	27.9%	37.1%	46.4%	65.0%	68.6%	77.9%	87.1%	100.0%	100.0%	100.0%		

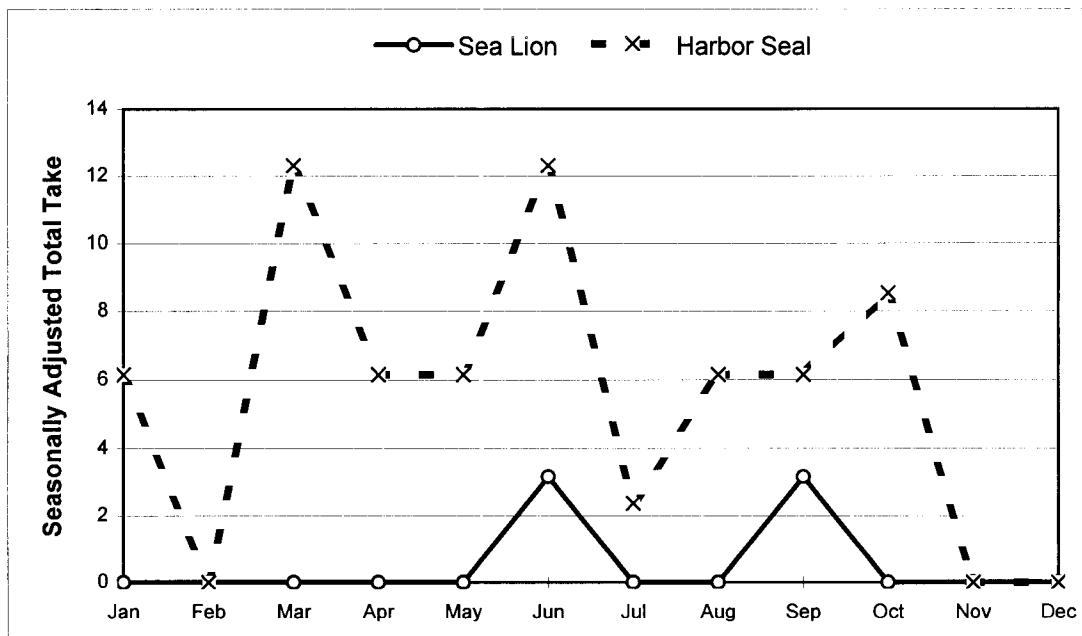
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tatitlek IRA Council, 2001.

Table 23. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Tatitlek, 2001

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%	9	23.1%	14.2	23.1%
Adult Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	2	50.0%	3.2	50.0%	3	7.7%	4.7	7.7%
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	2	50.0%	3.2	50.0%	27	69.2%	42.6	69.2%
Total	4	100.0%	6.3	100.0%	39	100.0%	61.6	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	8.3	4.2	12.5	1992	152.9	17.7	170.6
1993	4.1	1.0	5.2	1993	110.8	15.5	126.4
1994	8.8	7.4	16.2	1994	145.9	30.9	176.8
1995	2.6	0.0	2.6	1995	46.1	2.6	48.7
1996	5.0	0.0	5.0	1996	90.8	3.8	94.6
1997	2.7	1.4	4.1	1997	97.2	6.8	104.0
1998	15.1	6.8	21.9	1998	171.1	19.2	190.2
2000	1.9	0.0	1.9	2000	46.3	1.9	48.2
2001	6.3	0.0	6.3	2001	61.6	4.7	66.3

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, 2001.

Table 24. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Valdez, 2001

SAMPLING DESIGN:

CHAIN REFERRAL

Total Referred Households	1
Surveyed Households	1
Sampling Fraction	100.0%
Sample Household Members	3
Estimated Household Members	3.0
Estimated Native Population	410

HARVEST AND USE INFORMATION

Percentage of Sample Households:

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

*Estimated Community Harvest
and Take (Expanded):*

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	18.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	18.0
Number Harvested Per Capita	0.00	0.04

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	3	3	0	0	0	0	0	3	5	0	2	0	18
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	3	3	0	0	0	0	0	3	5	0	2	0	18
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0	5.0	0.0	2.0	0.0	18.0
Struck & Lost	0.0	0.0	0.0	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	3.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0	5.0	0.0	2.0	0.0	18.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0	5.0	0.0	2.0		18.0
Struck & Lost	0.0	0.0	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	3.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0	5.0	0.0	2.0		18.0
Total Take (%)	11.1%	16.7%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	27.8%	0.0%	11.1%		100.0%
Cum. Take	2.0	5.0	8.0	8.0	8.0	8.0	8.0	8.0	11.0	16.0	16.0	18.0		
Cum. Take (%)	11.1%	27.8%	44.4%	44.4%	44.4%	44.4%	44.4%	44.4%	61.1%	88.9%	88.9%	100.0%		

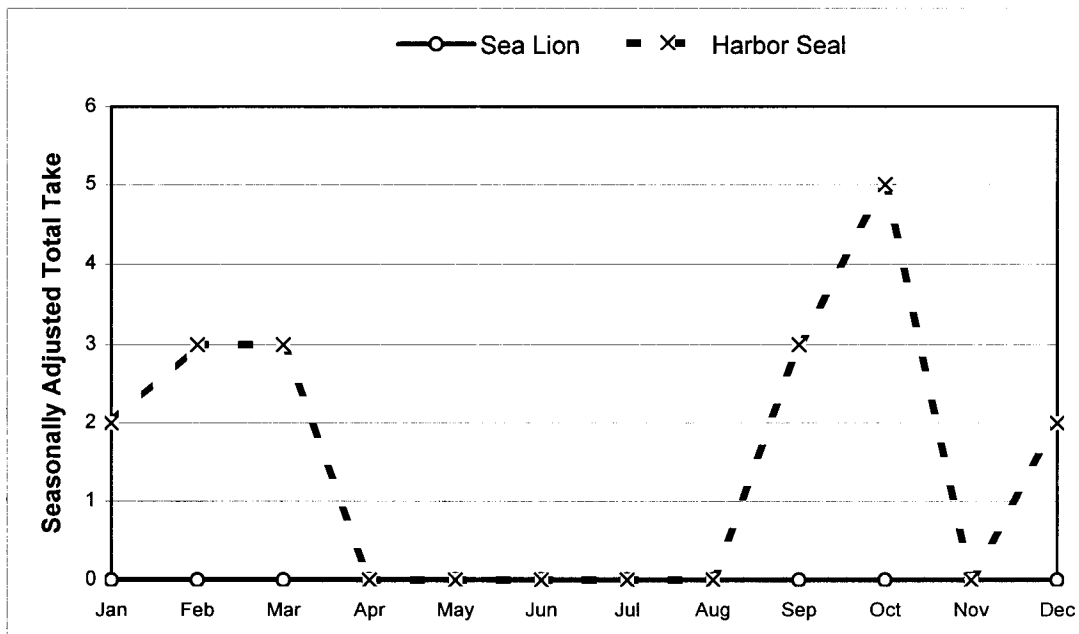
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Valdez Native Association, 2001.

Table 24. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Valdez, 2001

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	38.9%	7.0	38.9%
Adult Female	0	---	0.0	---	2	11.1%	2.0	11.1%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	9	50.0%	9.0	50.0%
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	---	18	100.0%	18.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	0.0	0.0	0.0
1993	0.0	0.0	0.0	1993	21.0	4.0	25.0
1994	0.0	0.0	0.0	1994	30.0	3.0	33.0
1995	0.0	0.0	0.0	1995	16.8	0.0	16.8
1996	0.0	0.0	0.0	1996	13.5	4.5	18.0
1997	0.0	0.0	0.0	1997	12.5	0.0	12.5
1998	1.7	1.7	3.3	1998	41.7	8.3	50.0
2000	1.7	1.7	3.3	2000	41.7	8.3	50.0
2001	0.0	0.0	0.0	2001	18.0	0.0	18.0

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, 2001.

Table 25. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Anchorage, 2001**SAMPLING DESIGN:****CHAIN REFERRAL**

Total Referred Households	32
Surveyed Households	24
Sampling Fraction	75.0%
Sample Household Members	88
Estimated Household Members	117.3
Estimated Native Population	26995

HARVEST AND USE INFORMATION*Percentage of Sample Households:*

	Sea Lion	Harbor Seal
Used	4.2%	58.3%
Hunted	4.2%	29.2%
Harvested	4.2%	29.2%
Received	0.0%	33.3%
Gave Away	4.2%	54.2%

*Estimated Community Harvest
and Take (Expanded):*

	Sea Lion	Harbor Seal
Total Number Harvested	1.3	45.3
Total Number Struck and Lost	0.0	2.7
Total Number Taken	1.3	48.0
Number Harvested Per Capita	0.00	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	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	1	0	0	0	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0			1.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0		1.3
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3		
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%		

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	1	5	7	1	0	4	0	16	0	0	0	0	34
Struck & Lost	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Total Take	0	1	5	9	1	0	4	0	16	0	0	0	0	36
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.3	6.7	9.3	1.3	0.0	5.3	0.0	21.3	0.0	0.0	0.0	0.0	45.3
Struck & Lost	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Total Take	0.0	1.3	6.7	1.3	1.3	0.0	5.3	0.0	21.3	0.0	0.0	0.0	0.0	48.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.3	6.7	9.3	1.3	0.0	5.3	0.0	21.3	0.0	0.0	0.0		45.3
Struck & Lost	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.7
Total Take	0.0	1.3	6.7	12.0	1.3	0.0	5.3	0.0	21.3	0.0	0.0	0.0		48.0
Total Take (%)	0.0%	2.8%	13.9%	25.0%	2.8%	0.0%	11.1%	0.0%	44.4%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	1.3	8.0	20.0	21.3	21.3	26.7	26.7	48.0	48.0	48.0	48.0		
Cum. Take (%)	0.0%	2.8%	16.7%	41.7%	44.4%	44.4%	55.6%	55.6%	100.0%	100.0%	100.0%	100.0%		

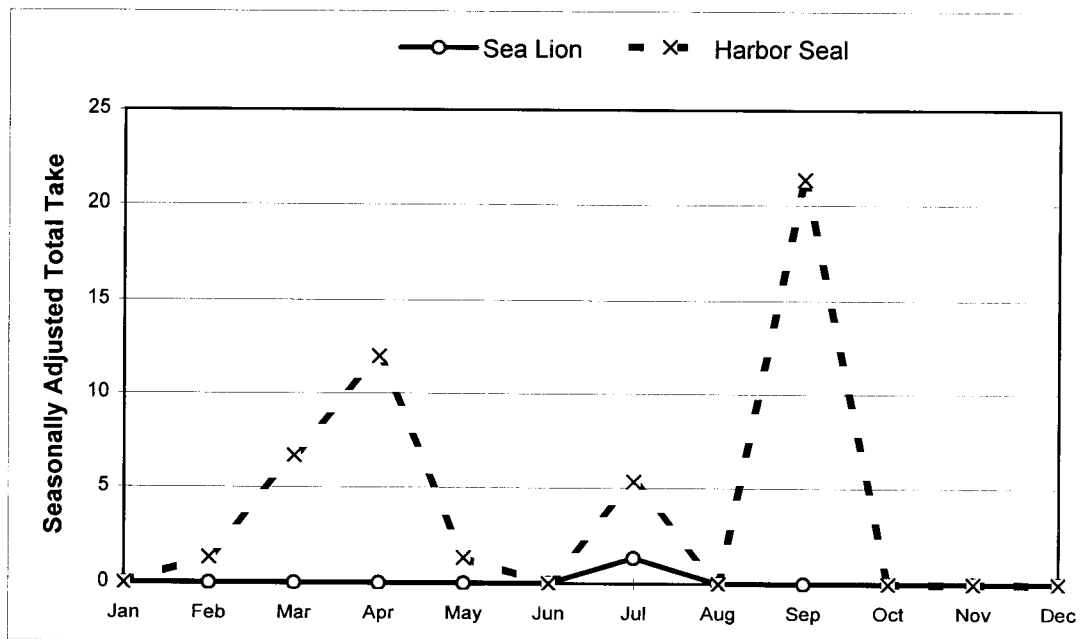
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Cook Inlet Tribal Council and Alaska Federation of Natives, 2001.

Table 25. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Anchorage, 2001

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	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%	24	70.6%	32.0	70.6%
Juvenile Male	1	100.0%	1.3	100.0%	2	5.9%	2.7	5.9%
Juvenile Female	0	0.0%	0.0	0.0%	2	5.9%	2.7	5.9%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	3	8.8%	4.0	8.8%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	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	5.9%	2.7	5.9%
Total	1	100.0%	1.3	100.0%	34	100.0%	45.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	5.7	3.8	9.5	1992	17.1	0.0	17.1
1993	7.8	3.3	11.1	1993	24.4	5.6	30.0
1994	1.4	0.0	1.4	1994	4.2	0.0	4.2
1995	0.0	0.0	0.0	1995	3.7	0.0	3.7
1996	1.0	0.0	1.0	1996	28.9	6.2	35.1
1997	0.0	0.0	0.0	1997	23.6	1.2	24.8
1998	0.0	0.0	0.0	1998	43.8	7.5	51.3
2000	0.0	0.0	0.0	2000	43.8	7.5	51.3
2001	1.3	0.0	1.3	2001	45.3	2.7	48.0

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, 2001.

Table 26. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Homer, 2001

SAMPLING DESIGN:

CHAIN REFERRAL

Total Referred Households	21
Surveyed Households	21
Sampling Fraction	100.0%
Sample Household Members	60
Estimated Household Members	60.0
Estimated Native Population	371.0

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	52.4%
Hunted	0.0%	19.0%
Harvested	0.0%	19.0%
Received	0.0%	42.9%
Gave Away	0.0%	28.6%

*Estimated Community Harvest
and Take (Expanded):*

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	21.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	21.0
Number Harvested Per Capita	0.00	0.06

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	15	1	0	0	0	0	0	0	0	0	3	0	21
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	15	1	0	0	0	0	0	0	0	0	3	0	21
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.0	15.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	21.0
Struck & Lost	0.0	0.0	0.0	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	15.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	21.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.0	15.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0		21.0
Struck & Lost	0.0	0.0	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	15.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0		21.0
Total Take (%)	9.5%	71.4%	4.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	14.3%		100.0%
Cum. Take	2.0	17.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	21.0		
Cum. Take (%)	9.5%	81.0%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	100.0%		

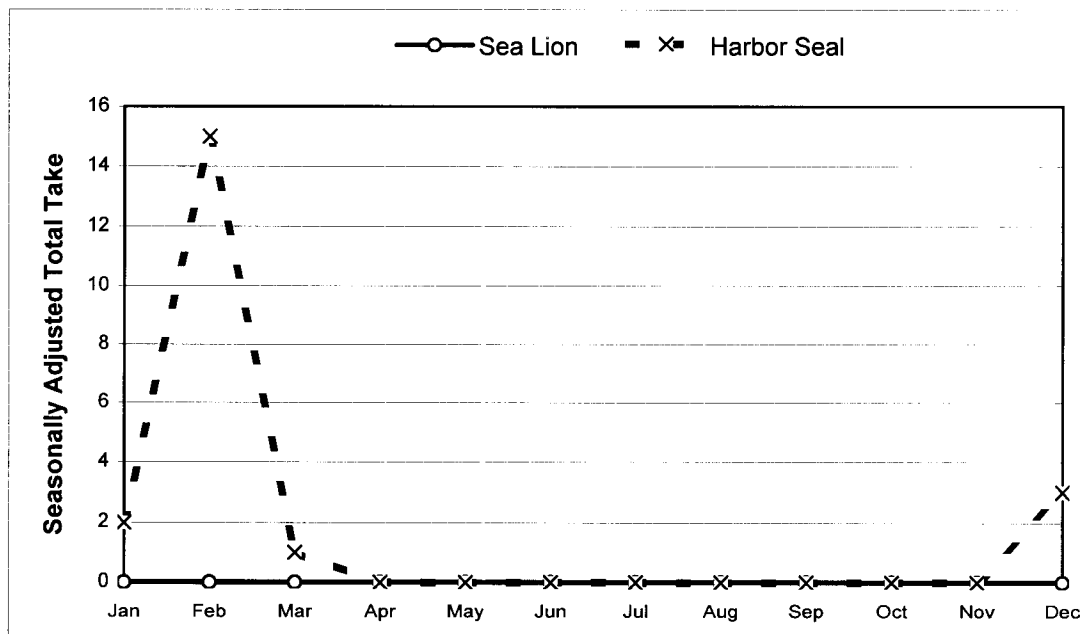
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

Table 26. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Homer, 2001

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	9.5%	2.0	9.5%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	4	19.0%	4.0	19.0%
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	---	15	71.4%	15.0	71.4%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	21	100.0%	21.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	---	---	---	1992	---	---	---
1993	0.0	0.0	0.0	1993	4.8	0.0	4.8
1994	0.0	0.0	0.0	1994	12.0	0.0	12.0
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0
1996	0.0	0.0	0.0	1996	10.5	1.5	12.0
1997	0.0	0.0	0.0	1997	41.1	2.6	43.7
1998	0.0	0.0	0.0	1998	22.8	6.0	28.8
2000	0.0	0.0	0.0	2000	22.8	6.0	28.8
2001	0.0	0.0	0.0	2001	21.0	0.0	21.0

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

Table 26B. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kenai, 2001

SAMPLING DESIGN:

CHAIN REFERRAL

Total Referred Households	32
Surveyed Households	18
Sampling Fraction	56.3%
Sample Household Members	54
Estimated Household Members	96.0
Estimated Native Population	2120.0

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	44.4%
Hunted	0.0%	5.6%
Harvested	0.0%	5.6%
Received	0.0%	44.4%
Gave Away	0.0%	22.2%

*Estimated Community Harvest
and Take (Expanded):*

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	24.9
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	24.9
Number Harvested Per Capita	0.00	0.01

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
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	14	0	0	0	0	0	0	0	0	0	0	0	14
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	14	0	0	0	0	0	0	0	0	0	0	0	14
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.9
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	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		24.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		24.9
Total Take (%)	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9		
Cum. Take (%)	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

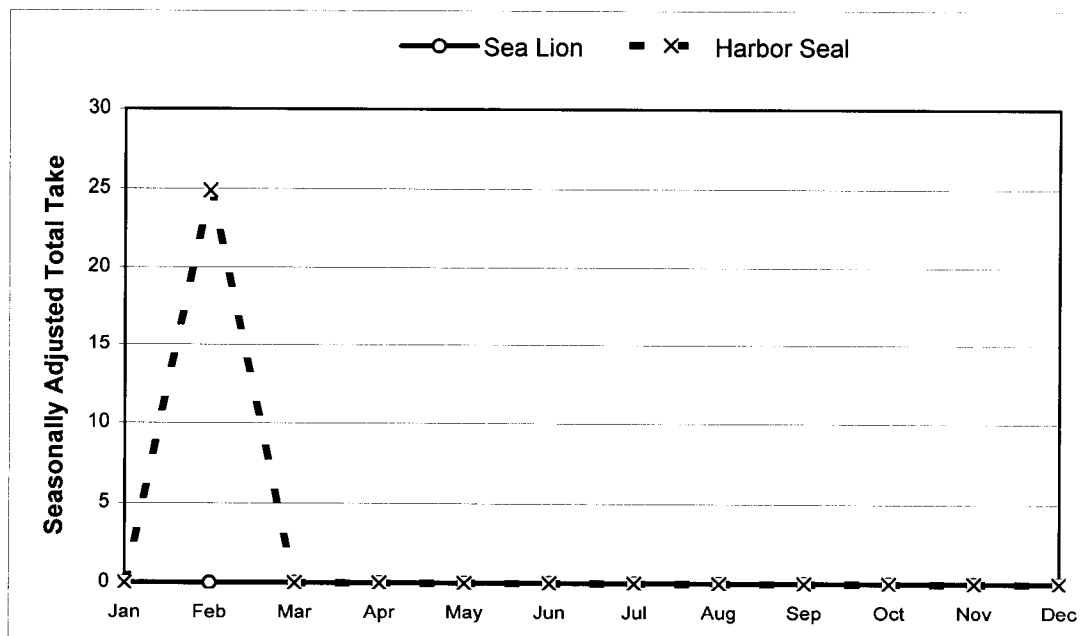
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from , 2001.

Table 26b. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kenai, 2001

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	---	3	21.4%	5.3	21.4%
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	---	11	78.6%	19.6	78.6%
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	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	14	100.0%	24.9	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	33.3	0.0	33.3
1993	0.0	0.0	0.0	1993	20.0	0.0	20.0
1994	---	---	---	1994	---	---	---
1995	---	---	---	1995	---	---	---
1996	2.3	0.0	2.3	1996	22.9	1.1	24.0
1997	0.0	0.0	0.0	1997	35.0	5.0	40.0
1998	0.0	0.0	0.0	1998	12.6	0.0	12.6
2000	0.0	0.0	0.0	2000	12.6	0.0	12.6
2001	0.0	0.0	0.0	2001	24.9	0.0	24.9

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 , 2001.

Table 26c. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Tyonek, 2001

SAMPLING DESIGN:

CHAIN REFERRAL

Total Referred Households	6
Surveyed Households	4
Sampling Fraction	67%
Sample Household Members	12
Estimated Household Members	18.0
Estimated Native Population	184.0

HARVEST AND USE INFORMATION

Percentage of Sample Households:

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

*Estimated Community Harvest
and Take (Expanded):*

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

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

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

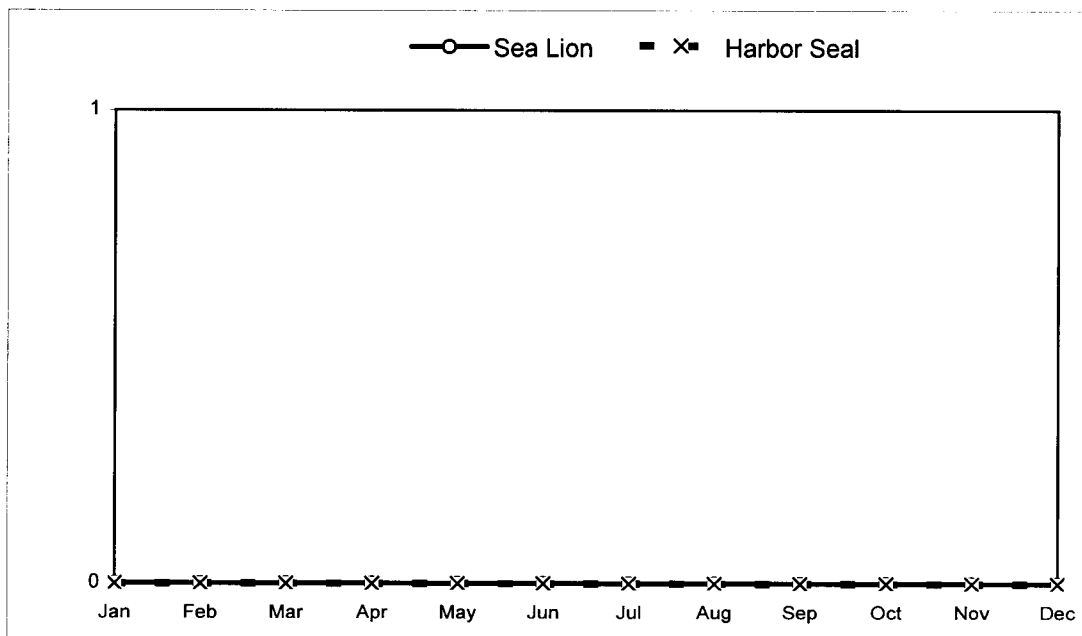
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Native Village of Tyonek, 2001.

Table 26b. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Tyonek, 2001

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	---
Adult Female	0	---	0.0	---	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---
Juvenile Male	0	---	0.0	---	0	---	0.0	---
Juvenile Female	0	---	0.0	---	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---	0	---	0.0	---
Pup Male	0	---	0.0	---	0	---	0.0	---
Pup Female	0	---	0.0	---	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---	0	---	0.0	---
Male Unknown Age	0	---	0.0	---	0	---	0.0	---
Female Unknown Age	0	---	0.0	---	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---	0	---	0.0	---
Total	0	---	0.0	---	0	---	0.0	---

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/	Total	Year	Harvest	Struck/	Total
		Lost	Take			Lost	Take
1992	0.0	0.0	0.0	1992	1.1	0.0	1.1
1993	---	---	---	1993	---	---	---
1994	---	---	---	1994	---	---	---
1995	---	---	---	1995	---	---	---
1996	0.0	0.0	0.0	1996	2.0	0.0	2.0
1997	---	---	---	1997	---	---	---
1998	0.0	0.0	0.0	1998	0.0	0.0	0.0
2000	0.0	0.0	0.0	2000	0.0	0.0	0.0
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Native Village of Tyonek, 2001.

Table 29. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Akhiok, 2001

SAMPLING DESIGN:

CENSUS

Total Native Households	13
Surveyed Households	9
Sampling Fraction	69.2%
Sample Household Members	35
Estimated Household Members	50.6
Estimated Native Population	75.0

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	11.1%	44.4%
Hunted	11.1%	44.4%
Harvested	11.1%	22.2%
Received	0.0%	22.2%
Gave Away	11.1%	22.2%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	1.4	7.2
Total Number Struck and Lost	0.0	0.0
Total Number Taken	1.4	7.2
Number Harvested Per Capita	0.02	0.10

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	2	0	2	0	0	0	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	0	2	0	0	0	1	0	0	0	0	5
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	2.9	0.0	2.9	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	7.2
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	2.9	0.0	2.9	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	7.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	2.9	0.0	2.9	0.0	0.0	0.0	1.4	0.0	0.0	0.0		7.2
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	2.9	0.0	2.9	0.0	0.0	0.0	1.4	0.0	0.0	0.0		7.2
Total Take (%)	0.0%	0.0%	40.0%	0.0%	40.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	2.9	2.9	5.8	5.8	5.8	5.8	7.2	7.2	7.2	7.2		
Cum. Take (%)	0.0%	0.0%	40.0%	40.0%	80.0%	80.0%	80.0%	80.0%	100.0%	100.0%	100.0%	100.0%		

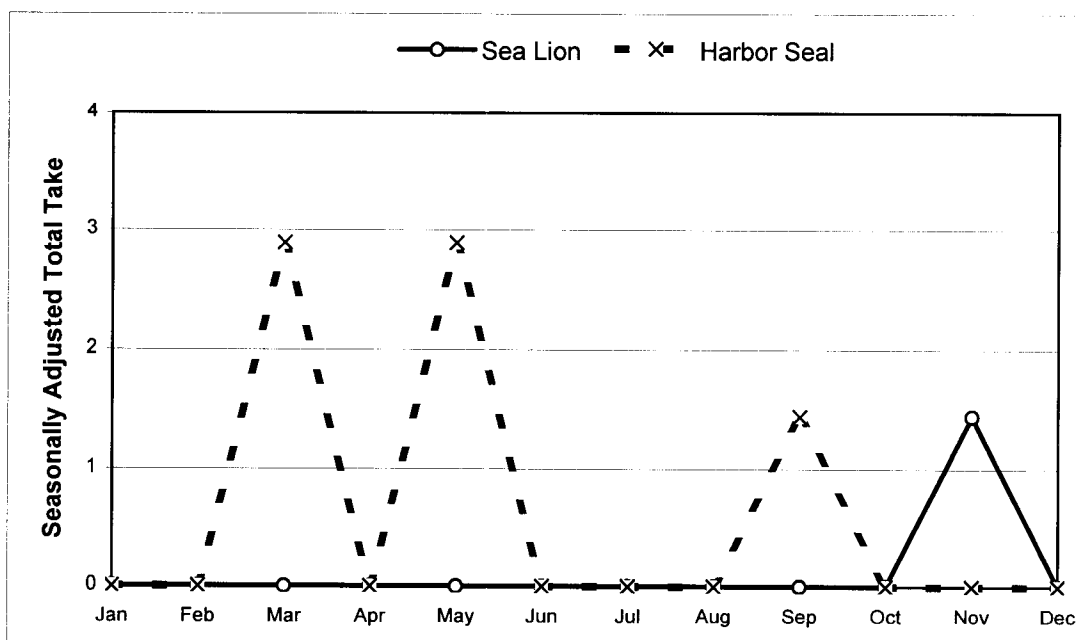
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Akhiok and Akhiok Tribal Council, 2001.

Table 29. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Akhiok, 2001

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	100.0%	1.4	100.0%	3	60.0%	4.3	60.0%
Adult Female	0	0.0%	0.0	0.0%	2	40.0%	2.9	40.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	1	100.0%	1.4	100.0%	5	100.0%	7.2	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	3.0	1.0	4.0	1992	20.0	3.0	23.0
1993	0.0	0.0	0.0	1993	13.3	0.0	13.3
1994	3.2	0.0	3.2	1994	14.5	0.0	14.5
1995	1.0	1.0	2.0	1995	5.0	0.0	5.0
1996	6.0	1.0	7.0	1996	12.0	1.0	13.0
1997	6.6	1.3	7.9	1997	7.9	0.0	7.9
1998	3.1	0.0	3.1	1998	7.3	0.0	7.3
2000	3.2	0.0	3.2	2000	17.6	0.0	17.6
2001	1.4	0.0	1.4	2001	7.2	0.0	7.2

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, 2001.

Table 30. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Karluk, 2001
SAMPLING DESIGN:
CENSUS

Total Native Households	13
Surveyed Households	11
Sampling Fraction	85%
Sample Household Members	35
Estimated Household Members	41.4
Estimated Native Population	26.0

HARVEST AND USE INFORMATION
Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	81.8%
Hunted	0.0%	27.3%
Harvested	0.0%	18.2%
Received	0.0%	81.8%
Gave Away	0.0%	36.4%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	8.3
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	8.3
Number Harvested Per Capita	0.00	0.32

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	4	1	1	0	0	0	0	0	0	1	0	0	0	7
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	4	1	1	0	0	0	0	0	0	1	0	0	0	7
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.7	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	8.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	4.7	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	8.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.7	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0		8.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	4.7	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0		8.3
Total Take (%)	57.1%	14.3%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	14.3%	0.0%	0.0%		100.0%
Cum. Take	4.7	5.9	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.3	8.3	8.3		
Cum. Take (%)	57.1%	71.4%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	100.0%	100.0%	100.0%		

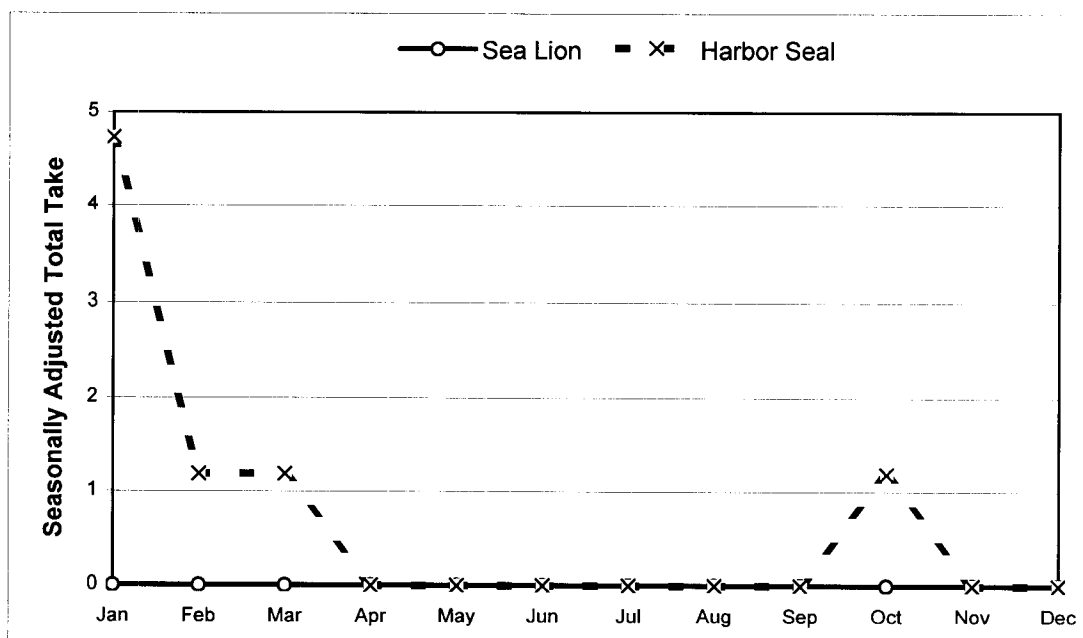
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Karluk IRA Council, 2001.

Table 30. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Karluk, 2001

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	100.0%	8.3	100.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	7	100.0%	8.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	16.5	1.5	18.0
1993	0.0	0.0	0.0	1993	10.0	1.3	11.3
1994	0.0	0.0	0.0	1994	7.5	0.0	7.5
1995	0.0	0.0	0.0	1995	28.1	6.8	34.9
1996	0.0	0.0	0.0	1996	15.1	0.0	15.1
1997	0.0	0.0	0.0	1997	19.0	0.0	19.0
1998	0.0	0.0	0.0	1998	11.0	0.0	11.0
2000	0.0	0.0	0.0	2000	19.5	1.5	21.0
2001	0.0	0.0	0.0	2001	8.3	0.0	8.3

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, 2001.

Table 31. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kodiak City, 2001**SAMPLING DESIGN:****CHAIN REFERRAL**

Total Referred Households	15
Surveyed Households	12
Sampling Fraction	80%
Sample Household Members	62
Estimated Household Members	77.5
Estimated Native Population	829.0

HARVEST AND USE INFORMATION**Percentage of Sample Households:**

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	8.3%	75.0%
Hunted	8.3%	50.0%
Harvested	8.3%	50.0%
Received	0.0%	33.3%
Gave Away	8.3%	41.7%

**Estimated Community Harvest
and Take (Expanded):**

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	2.5	17.5
Total Number Struck and Lost	0.0	0.0
Total Number Taken	2.5	17.5
Number Harvested Per Capita	0.00	0.02

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	2	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	0	0	2	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	2.5
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	2.5	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0		2.5
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5		
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%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	2	0	0	0	2	2	0	0	8	14
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	2	0	0	0	2	2	0	0	8	14
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	2.5	2.5	0.0	0.0	10.0	17.5
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	0.0	0.0	2.5	0.0	0.0	0.0	2.5	2.5	0.0	0.0	10.0	17.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	5.8	5.8	0.0	0.0		17.5
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	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	5.8	5.8	0.0	0.0		17.5
Total Take (%)	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	33.3%	33.3%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	5.8	5.8	5.8	5.8	11.7	17.5	17.5	17.5		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	33.3%	33.3%	33.3%	33.3%	66.7%	100.0%	100.0%	100.0%		

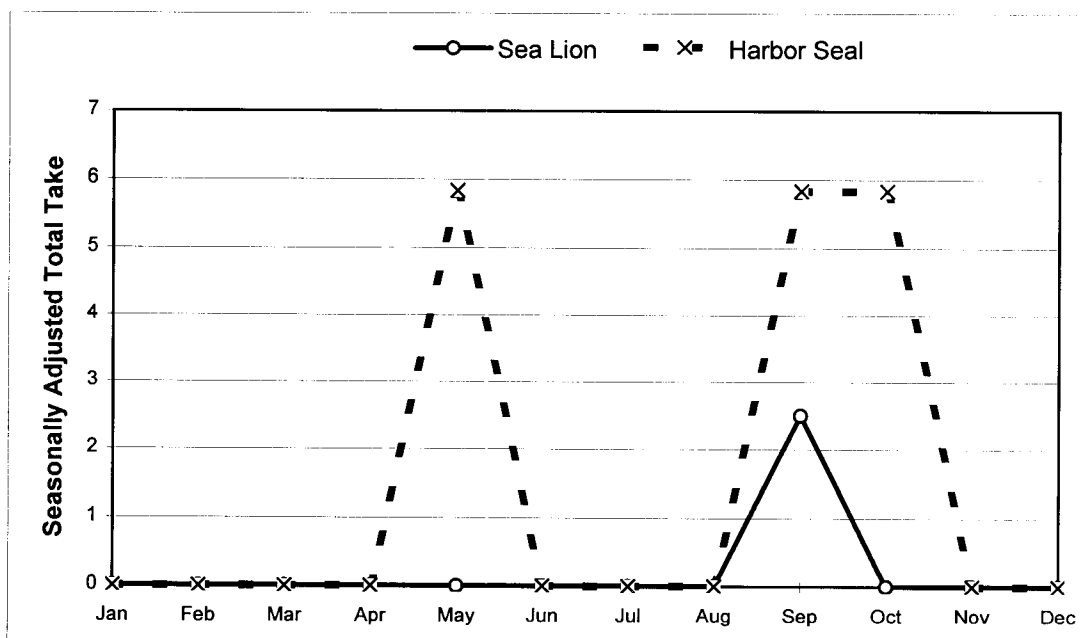
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kodiak Tribal Council and Kodiak Area Native Association, 2001.

Table 31. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kodiak City, 2001

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%	3	21.4%	3.8	21.4%
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%	4	28.6%	5.0	28.6%
Juvenile Male	1	50.0%	1.3	50.0%	0	0.0%	0.0	0.0%
Juvenile Female	1	50.0%	1.3	50.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	7	50.0%	8.8	50.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	2	100.0%	2.5	100.0%	14	100.0%	17.5	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	36.9	0.0	36.9
1993	0.0	12.7	12.7	1993	6.0	1.0	7.0
1994	1.1	0.0	1.1	1994	7.6	0.0	7.6
1995	2.2	0.0	2.2	1995	8.8	0.0	8.8
1996	3.0	0.0	3.0	1996	9.0	0.0	9.0
1997	3.0	0.0	3.0	1997	13.0	0.0	13.0
1998	0.0	1.0	1.0	1998	11.0	0.0	11.0
2000	2.4	0.0	2.4	2000	21.6	4.8	26.4
2001	2.5	0.0	2.5	2001	17.5	0.0	17.5

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, 2001.

Table 32. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Larsen Bay, 2001

SAMPLING DESIGN:

CENSUS

Total Native Households	26
Surveyed Households	23
Sampling Fraction	88.5%
Sample Household Members	66
Estimated Household Members	74.6
Estimated Native Population	91.0

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	60.9%
Hunted	0.0%	17.4%
Harvested	0.0%	17.4%
Received	0.0%	47.8%
Gave Away	0.0%	34.8%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	9.0
Total Number Struck and Lost	0.0	1.1
Total Number Taken	0.0	10.2
Number Harvested Per Capita	0.00	0.10

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	0	0	0	0	0	0	0	1	5	1	0	8
Struck & Lost	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Total Take	0	1	0	0	0	0	0	0	0	2	5	1	0	9
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.7	1.1	0.0	9.0
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	0.0	1.1
Total Take	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.7	1.1	0.0	10.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.7	1.1		9.0
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	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.7	1.1		10.2
Total Take (%)	0.0%	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	22.2%	55.6%	11.1%		100.0%
Cum. Take	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.4	9.0	10.2		
Cum. Take (%)	0.0%	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	11.1%	33.3%	88.9%	100.0%		

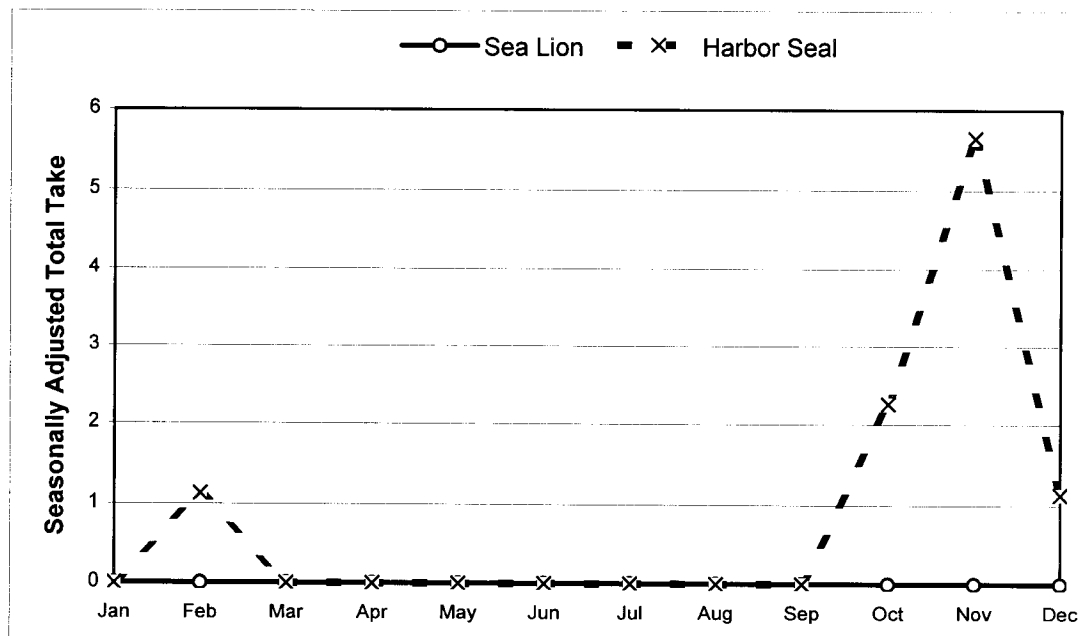
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Larsen Bay and Larsen Bay Tribal Council, 2001.

Table 32. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Larsen Bay, 2001

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	25.0%	2.3	25.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	5	62.5%	5.7	62.5%
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	---	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	12.5%	1.1	12.5%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	8	100.0%	9.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	1.1	0.0	1.1	1992	6.5	0.0	6.5
1993	0.0	0.0	0.0	1993	7.7	5.5	13.2
1994	2.2	0.0	2.2	1994	13.4	2.2	15.7
1995	2.0	1.0	3.0	1995	11.0	0.0	11.0
1996	0.0	0.0	0.0	1996	15.0	0.0	15.0
1997	0.0	0.0	0.0	1997	9.8	4.2	13.9
1998	0.0	0.0	0.0	1998	1.7	0.0	1.7
2000	0.0	0.0	0.0	2000	18.6	0.0	18.6
2001	0.0	0.0	0.0	2001	9.0	1.1	10.2

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, 2001.

Table 33. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Old Harbor, 2001**SAMPLING DESIGN:****CENSUS**

Total Native Households	68
Surveyed Households	62
Sampling Fraction	91.2%
Sample Household Members	194
Estimated Household Members	212.8
Estimated Native Population	203.0

HARVEST AND USE INFORMATION**Percentage of Sample Households:**

	Sea Lion	Harbor Seal
Used	56.5%	82.3%
Hunted	16.1%	35.5%
Harvested	16.1%	35.5%
Received	53.2%	75.8%
Gave Away	46.8%	66.1%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	26.3	71.3
Total Number Struck and Lost	2.2	0.0
Total Number Taken	28.5	71.3
Number Harvested Per Capita	0.13	0.35

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	0	0	1	1	4	1	4	8	4	24
Struck & Lost	0	0	0	0	0	0	0	0	1	0	0	1	0	2
Total Take	0	0	0	1	0	0	1	1	5	1	4	9	4	26
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.1	0.0	0.0	1.1	1.1	4.4	1.1	4.4	8.8	4.4	26.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1	0.0	2.2
Total Take	0.0	0.0	0.0	1.1	0.0	0.0	1.1	1.1	5.5	1.1	4.4	9.9	4.4	28.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.3	0.0	0.0	1.3	1.3	5.3	1.3	5.3	10.5		26.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1		2.2
Total Take	0.0	0.0	0.0	1.3	0.0	0.0	1.3	1.3	6.4	1.3	5.3	11.6		28.5
Total Take (%)	0.0%	0.0%	0.0%	4.6%	0.0%	0.0%	4.6%	4.6%	22.3%	4.6%	18.5%	40.8%		100.0%
Cum. Take	0.0	0.0	0.0	1.3	1.3	1.3	2.6	3.9	10.3	11.6	16.9	28.5		
Cum. Take (%)	0.0%	0.0%	0.0%	4.6%	4.6%	4.6%	9.2%	13.8%	36.2%	40.8%	59.2%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	3	4	1	1	4	2	10	12	8	6	9	3	65
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	3	4	1	1	4	2	10	12	8	6	9	3	65
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.2	3.3	4.4	1.1	1.1	4.4	2.2	11.0	13.2	8.8	6.6	9.9	3.3	71.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	2.2	3.3	4.4	1.1	1.1	4.4	2.2	11.0	13.2	8.8	6.6	9.9	3.3	71.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.3	3.4	4.6	1.1	1.1	4.6	2.3	11.5	13.8	9.2	6.9	10.3		71.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	2.3	3.4	4.6	1.1	1.1	4.6	2.3	11.5	13.8	9.2	6.9	10.3		71.3
Total Take (%)	3.2%	4.8%	6.5%	1.6%	1.6%	6.5%	3.2%	16.1%	19.4%	12.9%	9.7%	14.5%		100.0%
Cum. Take	2.3	5.7	10.3	11.5	12.6	17.2	19.5	31.0	44.8	54.0	60.9	71.3		
Cum. Take (%)	3.2%	8.1%	14.5%	16.1%	17.7%	24.2%	27.4%	43.5%	62.9%	75.8%	85.5%	100.0%		

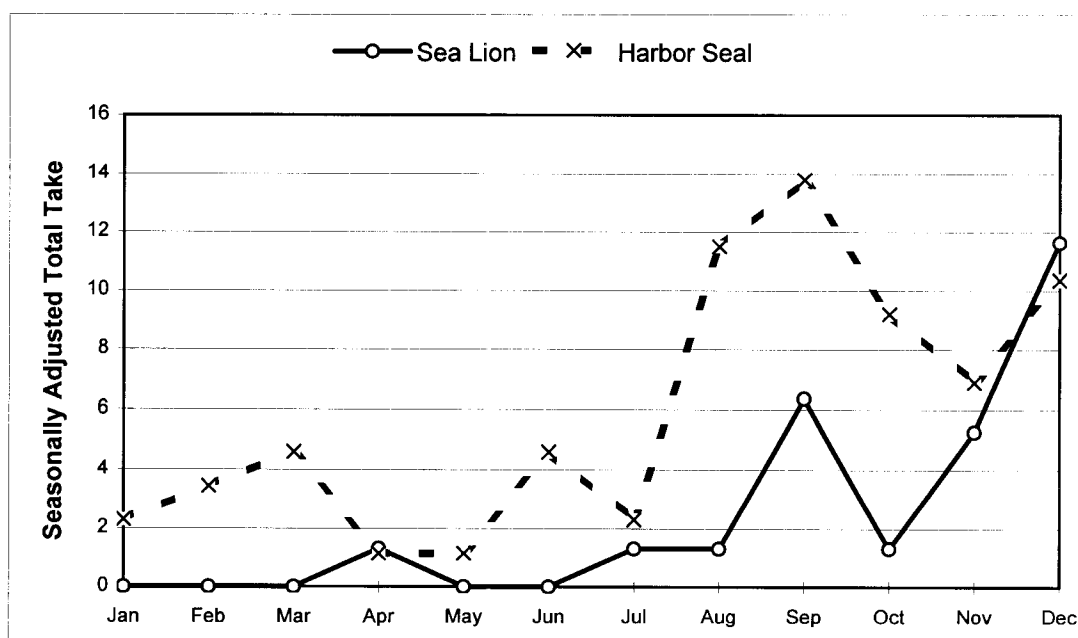
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Old Harbor and Old Harbor Tribal Council, 2001.

Table 33. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Old Harbor, 2001

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	12	50.0%	13.2	50.0%	42	64.6%	46.1	64.6%
Adult Female	8	33.3%	8.8	33.3%	10	15.4%	11.0	15.4%
Adult Unknown Sex	0	0.0%	0.0	0.0%	5	7.7%	5.5	7.7%
Juvenile Male	4	16.7%	4.4	16.7%	6	9.2%	6.6	9.2%
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%	2	3.1%	2.2	3.1%
Total	24	100.0%	26.3	100.0%	65	100.0%	71.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	32.9	13.2	46.1	1992	86.8	5.3	92.1
1993	32.1	1.0	33.2	1993	67.6	2.7	70.3
1994	46.2	1.3	47.5	1994	83.7	1.3	85.0
1995	107.1	5.7	112.9	1995	112.0	2.4	114.4
1996	44.9	5.3	50.2	1996	113.5	1.3	114.8
1997	22.7	3.6	26.3	1997	80.0	4.8	84.8
1998	10.3	2.3	12.6	1998	55.1	1.1	56.2
2000	12.9	0.0	12.9	2000	59.1	0.0	59.1
2001	26.3	2.2	28.5	2001	71.3	0.0	71.3

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, 2001.

Table 34. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ouzinkie, 2001

SAMPLING DESIGN:

CHAIN REFERRAL

Total Referred Households	18
Surveyed Households	14
Sampling Fraction	77.8%
Sample Household Members	60
Estimated Household Members	77.1
Estimated Native Population	197.0

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	14.3%	100.0%
Hunted	14.3%	92.9%
Harvested	14.3%	92.9%
Received	0.0%	64.3%
Gave Away	0.0%	78.6%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	2.6	33.4
Total Number Struck and Lost	0.0	2.6
Total Number Taken	2.6	36.0
Number Harvested Per Capita	0.01	0.17

SEA LION HARVEST BY MONTH														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	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	0	0
Total Take	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	2.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	2.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0				2.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0				2.6
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%				100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6				
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%				

HARBOR SEAL HARVEST BY MONTH														Unknown Month		Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)																
Harvest	1	1	1	1	0	2	0	1	5	5	7	2	0	0	0	26
Struck & Lost	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	2
Total Take	1	1	2	1	0	2	0	1	6	5	7	2	0	0	0	28
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	1.3	1.3	1.3	1.3	0.0	2.6	0.0	1.3	6.4	6.4	9.0	2.6	0.0	0.0	0.0	33.4
Struck & Lost	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	2.6
Total Take	1.3	1.3	2.6	1.3	0.0	2.6	0.0	1.3	7.7	6.4	9.0	2.6	0.0	0.0	0.0	36.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																
Harvest	1.3	1.3	1.3	1.3	0.0	2.6	0.0	1.3	6.4	6.4	9.0	2.6				33.4
Struck & Lost	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0				2.6
Total Take	1.3	1.3	2.6	1.3	0.0	2.6	0.0	1.3	7.7	6.4	9.0	2.6				36.0
Total Take (%)	3.6%	3.6%	7.1%	3.6%	0.0%	7.1%	0.0%	3.6%	21.4%	17.9%	25.0%	7.1%				100.0%
Cum. Take	1.3	2.6	5.1	6.4	6.4	9.0	9.0	10.3	18.0	24.4	33.4	36.0				
Cum. Take (%)	3.6%	7.1%	14.3%	17.9%	17.9%	25.0%	25.0%	28.6%	50.0%	67.9%	92.9%	100.0%				

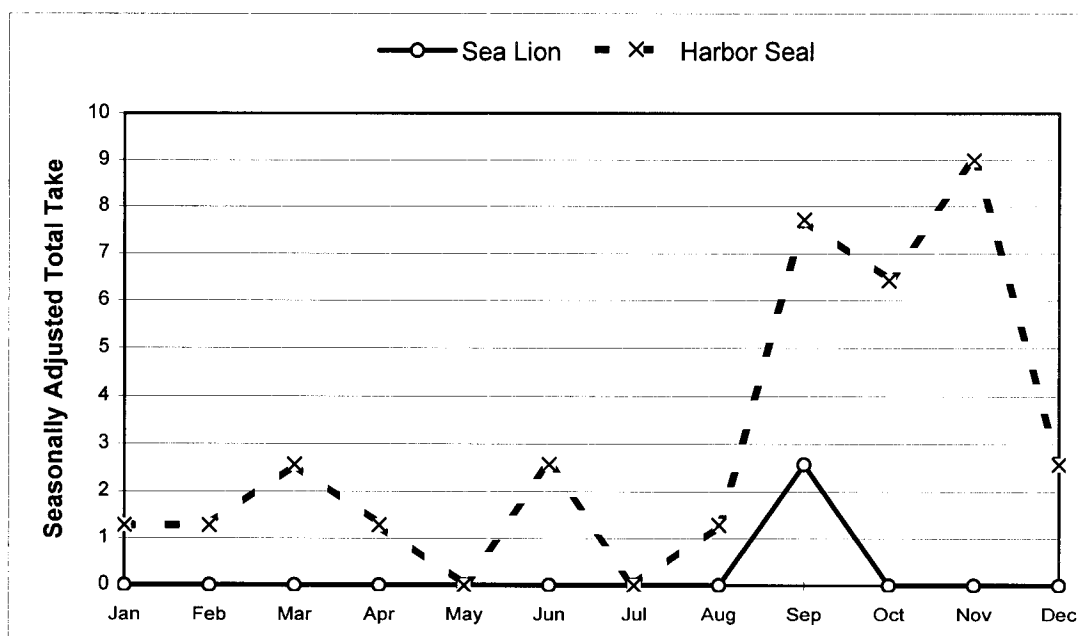
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Native Corporation, City of Ouzinkie, and Ouzinkie Tribal Council, 2001.

Table 34. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ouzinkie, 2001

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%	12	46.2%	15.4	46.2%
Adult Female	0	0.0%	0.0	0.0%	1	3.8%	1.3	3.8%
Adult Unknown Sex	0	0.0%	0.0	0.0%	2	7.7%	2.6	7.7%
Juvenile Male	1	50.0%	1.3	50.0%	10	38.5%	12.9	38.5%
Juvenile Female	0	0.0%	0.0	0.0%	1	3.8%	1.3	3.8%
Juvenile Unknown Sex	1	50.0%	1.3	50.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	2	100.0%	2.6	100.0%	26	100.0%	33.4	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	3.4	0.0	3.4	1992	21.8	1.1	23.0
1993	5.4	2.2	7.6	1993	41.2	8.7	49.8
1994	4.4	2.9	7.3	1994	33.4	0.0	33.4
1995	15.6	0.0	15.6	1995	56.1	0.0	56.1
1996	0.0	0.0	0.0	1996	16.7	2.6	19.3
1997	0.0	0.0	0.0	1997	55.2	9.4	64.6
1998	0.0	0.0	0.0	1998	82.0	2.5	84.5
2000	0.0	0.0	0.0	2000	43.0	1.0	44.0
2001	2.6	0.0	2.6	2001	33.4	2.6	36.0

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, 2001.

Table 35. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Port Lions, 2001**SAMPLING DESIGN:****CHAIN REFERRAL**

Total Referred Households	11
Surveyed Households	10
Sampling Fraction	91%
Sample Household Members	34
Estimated Household Members	37.4
Estimated Native Population	163.0

HARVEST AND USE INFORMATION**Percentage of Sample Households:**

	Sea Lion	Harbor Seal
Used	0.0%	70.0%
Hunted	0.0%	50.0%
Harvested	0.0%	40.0%
Received	0.0%	40.0%
Gave Away	0.0%	50.0%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	8.8
Total Number Struck and Lost	0.0	1.1
Total Number Taken	0.0	9.9
Number Harvested Per Capita	0.00	0.05

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	1	0	0	0	1	1	0	0	2	2	0	8
Struck & Lost	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Total Take	0	1	1	0	0	0	1	1	1	0	2	2	0	9
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.1	1.1	0.0	0.0	0.0	1.1	1.1	0.0	0.0	2.2	2.2	0.0	8.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.1
Total Take	0.0	1.1	1.1	0.0	0.0	0.0	1.1	1.1	1.1	0.0	2.2	2.2	0.0	9.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.1	1.1	0.0	0.0	0.0	1.1	1.1	0.0	0.0	2.2	2.2		8.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0		1.1
Total Take	0.0	1.1	1.1	0.0	0.0	0.0	1.1	1.1	1.1	0.0	2.2	2.2		9.9
Total Take (%)	0.0%	11.1%	11.1%	0.0%	0.0%	0.0%	11.1%	11.1%	11.1%	0.0%	22.2%	22.2%		100.0%
Cum. Take	0.0	1.1	2.2	2.2	2.2	2.2	3.3	4.4	5.5	5.5	7.7	9.9		
Cum. Take (%)	0.0%	11.1%	22.2%	22.2%	22.2%	22.2%	33.3%	44.4%	55.6%	55.6%	77.8%	100.0%		

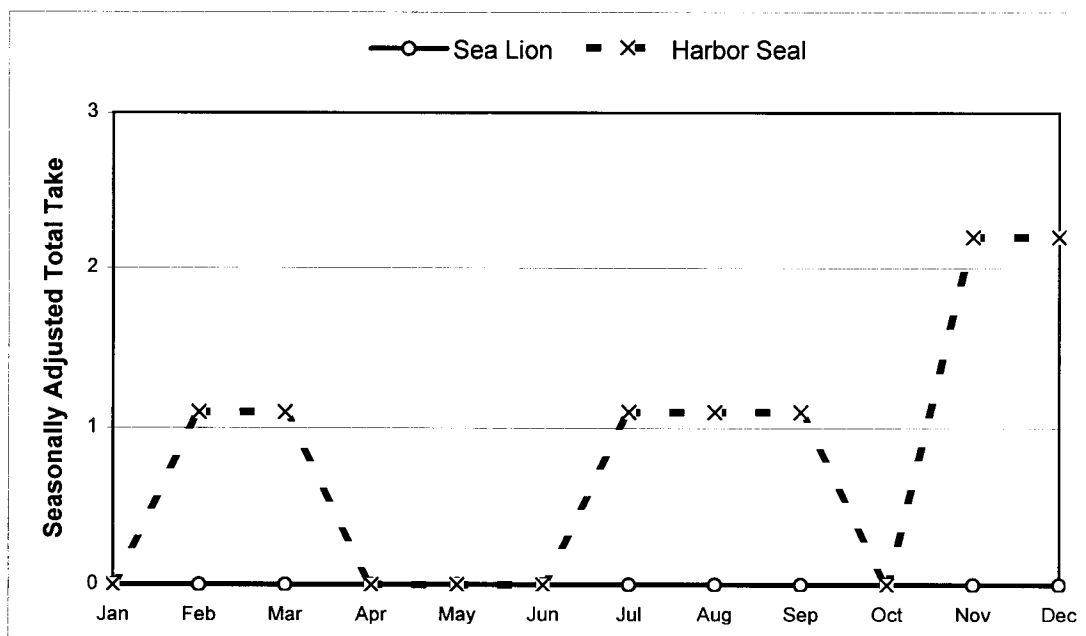
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Lions Tribal Council and City of Port Lions, 2001.

Table 35. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Lions, 2001

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	50.0%	4.4	50.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	3	37.5%	3.3	37.5%
Juvenile Female	0	---	0.0	---	1	12.5%	1.1	12.5%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	8	100.0%	8.8	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	1.1	2.2	3.3	1992	36.9	2.2	39.1
1993	4.0	1.0	5.0	1993	26.0	1.0	27.0
1994	0.0	0.0	0.0	1994	8.0	0.0	8.0
1995	0.0	0.0	0.0	1995	2.0	0.0	2.0
1996	0.0	0.0	0.0	1996	4.0	0.0	4.0
1997	1.0	0.0	1.0	1997	5.0	0.0	5.0
1998	1.0	0.0	1.0	1998	6.0	0.0	6.0
2000	0.0	0.0	0.0	2000	6.4	0.0	6.4
2001	0.0	0.0	0.0	2001	8.8	1.1	9.9

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, 2001.

Table 36. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Chignik Bay, 2001

SAMPLING DESIGN:

CENSUS

Total Native Households	14
Surveyed Households	12
Sampling Fraction	85.7%
Sample Household Members	23
Estimated Household Members	26.4
Estimated Native Population	48.0

HARVEST AND USE INFORMATION

Percentage of Native Households:

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

**Estimated Community Harvest
and Take (Expanded):**

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

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

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

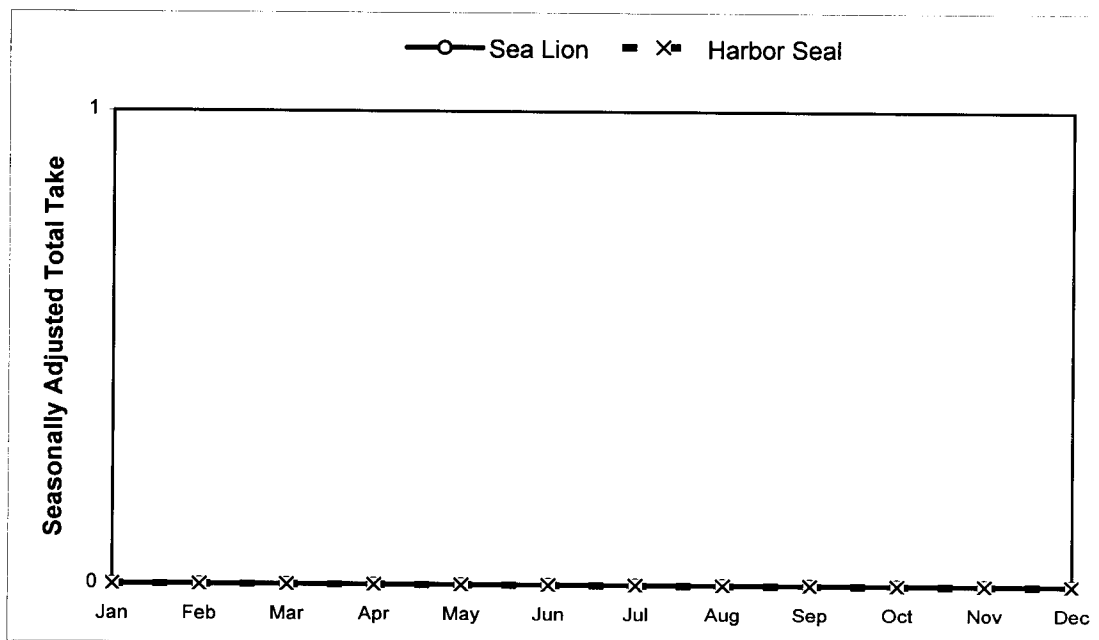
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Bay Traditional Village Council, 2001.

Table 36. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chignik Bay, 2001

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	---
Adult Female	0	---	0.0	---	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---
Juvenile Male	0	---	0.0	---	0	---	0.0	---
Juvenile Female	0	---	0.0	---	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---	0	---	0.0	---
Pup Male	0	---	0.0	---	0	---	0.0	---
Pup Female	0	---	0.0	---	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---	0	---	0.0	---
Male Unknown Age	0	---	0.0	---	0	---	0.0	---
Female Unknown Age	0	---	0.0	---	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---	0	---	0.0	---
Total	0	---	0.0	---	0	---	0.0	---

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	2.4	1.2	3.6
1993	0.0	0.0	0.0	1993	6.3	5.0	11.3
1994	0.0	0.0	0.0	1994	3.4	0.0	3.4
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0
1996	0.0	0.0	0.0	1996	1.0	0.0	1.0
1997	0.0	0.0	0.0	1997	0.0	0.0	0.0
1998	0.0	0.0	0.0	1998	0.0	0.0	0.0
2000	0.0	0.0	0.0	2000	0.0	0.0	0.0
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0

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, 2001.

Table 37. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: Chignik Lagoon, 2001

SAMPLING DESIGN:

CENSUS

Total Native Households	23
Surveyed Households	21
Sampling Fraction	91.3%
Sample Household Members	68
Estimated Household Members	74.5
Estimated Native Population	85.0

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	4.8%
Hunted	0.0%	4.8%
Harvested	0.0%	4.8%
Received	0.0%	0.0%
Gave Away	0.0%	4.8%

*Estimated Community Harvest
and Take (Expanded):*

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

<i>SEA LION HARVEST BY MONTH</i>													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	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		

<i>HARBOR SEAL HARVEST BY MONTH</i>													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	0	0	0	0	0	1	0	0	0	0	1
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	1	0	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0		1.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0		1.1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%		

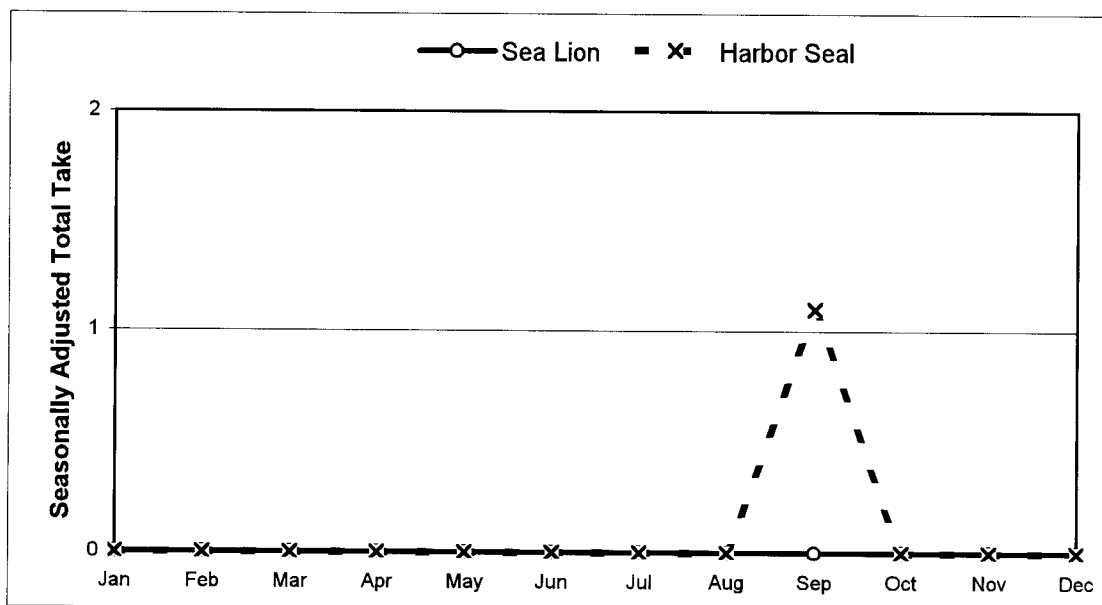
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lagoon Traditional Village Council, 2001.

Table 37. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chignik Lagoon, 2001

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%	1.1	100.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	1	100.0%	1.1	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	4.0	0.0	4.0
1993	1.1	0.0	1.1	1993	4.3	1.1	5.3
1994	0.0	0.0	0.0	1994	0.0	1.0	1.0
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0
1996	0.0	0.0	0.0	1996	0.0	0.0	0.0
1997	0.0	0.0	0.0	1997	1.3	1.3	2.7
1998	0.0	0.0	0.0	1998	0.0	0.0	0.0
2000	0.0	0.0	0.0	2000	1.2	0.0	1.2
2001	0.0	0.0	0.0	2001	1.1	0.0	1.1

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, 2001.

Table 38. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: Chignik Lake, 2001**SAMPLING DESIGN:****CENSUS**

Total Native Households	26
Surveyed Households	20
Sampling Fraction	76.9%
Sample Household Members	67
Estimated Household Members	87.1
Estimated Native Population	127.0

HARVEST AND USE INFORMATION**Percentage of Native Households:**

	Sea Lion	Harbor Seal
Used	0.0%	20.0%
Hunted	0.0%	5.0%
Harvested	0.0%	5.0%
Received	0.0%	20.0%
Gave Away	0.0%	5.0%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	1.3
Total Number Struck and Lost	0.0	1.3
Total Number Taken	0.0	2.6
Number Harvested Per Capita	0.00	0.01

SEA LION HARVEST BY MONTH													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	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---

HARBOR SEAL HARVEST BY MONTH													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	0	0	0	0	0	0	0	0	0	1	1
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	2	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		1.3
Struck & Lost	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		1.3
Total Take	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	1.7	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%		

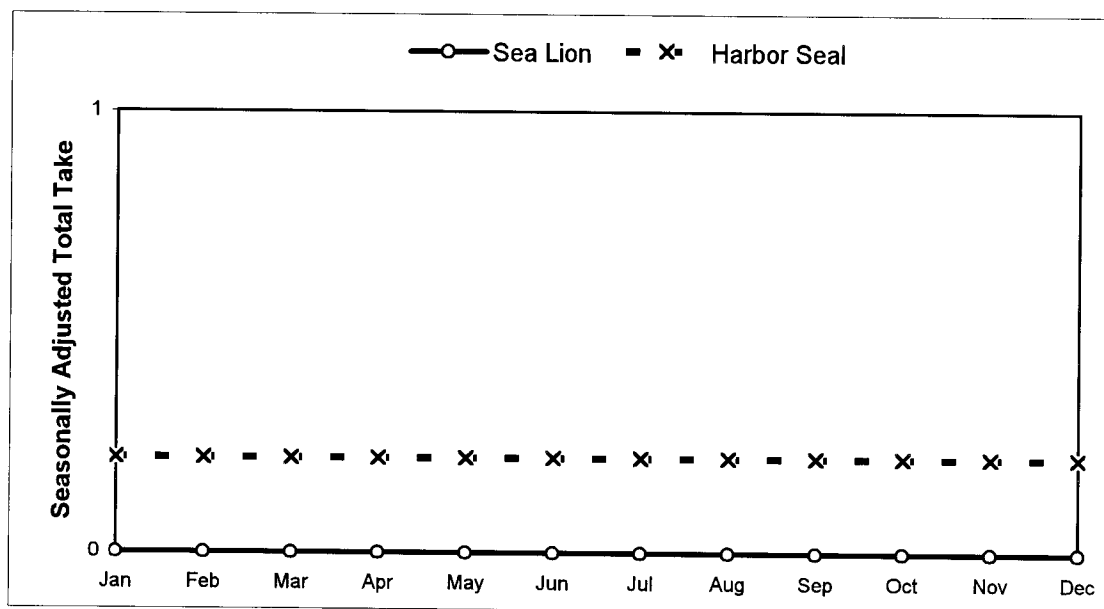
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lake Traditional Village Council, 2001.

Table 38. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chignik Lake, 2001

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	---	1	100.0%	1.3	100.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	1	100.0%	1.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	8.3	2.1	10.3
1993	0.0	0.0	0.0	1993	15.2	5.5	20.8
1994	0.0	0.0	0.0	1994	20.8	1.3	22.1
1995	0.0	0.0	0.0	1995	3.2	1.1	4.3
1996	0.0	0.0	0.0	1996	3.5	0.0	3.5
1997	0.0	0.0	0.0	1997	2.2	1.1	3.3
1998	0.0	0.0	0.0	1998	1.9	0.0	1.9
2000	0.0	0.0	0.0	2000	3.3	0.0	3.3
2001	0.0	0.0	0.0	2001	1.3	1.3	2.6

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, 2001.

Table 39. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: False Pass, 2001**SAMPLING DESIGN:
CENSUS**

Total Native Households	16
Surveyed Households	13
Sampling Fraction	81.3%
Sample Household Members	45
Estimated Household Members	55.4
Estimated Native Population	42.0

HARVEST AND USE INFORMATION**Percentage of Native Households:**

	Sea Lion	Harbor Seal
Used	0.0%	76.9%
Hunted	7.7%	23.1%
Harvested	0.0%	15.4%
Received	0.0%	76.9%
Gave Away	0.0%	30.8%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	2.5
Total Number Struck and Lost	0.0	1.2
Total Number Taken	0.0	3.7
Number Harvested Per Capita	0.00	0.06

SEA LION HARVEST BY MONTH														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	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	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	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			

HARBOR SEAL HARVEST BY MONTH														Unknown 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	1	0	0	0	1	0	0	0	0	0	0	2
Struck & Lost	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Total Take	0	0	0	1	0	1	0	1	0	0	0	0	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.2	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	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Total Take	0.0	0.0	0.0	1.2	0.0	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	3.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0			2.5
Struck & Lost	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0			1.2
Total Take	0.0	0.0	0.0	1.2	0.0	1.2	0.0	1.2	0.0	0.0	0.0	0.0			3.7
Total Take (%)	0.0%	0.0%	0.0%	33.3%	0.0%	33.3%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%			100.0%
Cum. Take	0.0	0.0	0.0	1.2	1.2	2.5	2.5	3.7	3.7	3.7	3.7	3.7			
Cum. Take (%)	0.0%	0.0%	0.0%	33.3%	33.3%	66.7%	66.7%	100.0%	100.0%	100.0%	100.0%	100.0%			

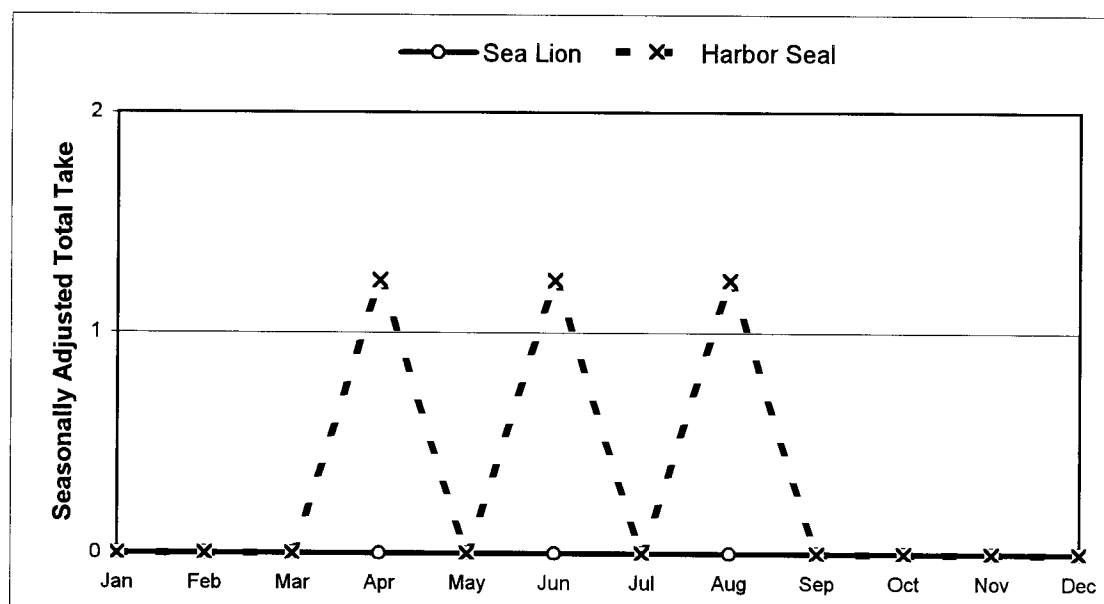
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the False Pass Tribal Council and City of False Pass (Numbers based on 2000 survey estimates).

Table 39. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: False Pass, 2001

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%	1.2	50.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	1	50.0%	1.2	50.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	2	100.0%	2.5	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	18.0	0.0	18.0
1993	0.0	0.0	0.0	1993	19.0	0.0	19.0
1994	0.0	0.0	0.0	1994	12.6	2.1	14.7
1995	0.0	0.0	0.0	1995	25.9	1.2	27.1
1996	0.0	0.0	0.0	1996	13.9	0.0	13.9
1997	0.0	0.0	0.0	1997	8.0	0.0	8.0
1998	0.0	0.0	0.0	1998	17.8	1.3	19.1
2000	0.0	0.0	0.0	2000	2.5	1.2	3.7
2001	0.0	0.0	0.0	2001	2.5	1.2	3.7

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the False Pass Tribal Council and City of False Pass. (Numbers based on 2000 survey estimates).

Table 40. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ivanof Bay, 2001**SAMPLING DESIGN:****CENSUS**

Total Native Households	7
Surveyed Households	5
Sampling Fraction	71.4%
Sample Household Members	11
Estimated Household Members	15.4
Estimated Native Population	21.0

HARVEST AND USE INFORMATION**Percentage of Native Households:**

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	100.0%	80.0%
Hunted	60.0%	60.0%
Harvested	20.0%	60.0%
Received	80.0%	60.0%
Gave Away	20.0%	80.0%

**Estimated Community Harvest
and Take (Expanded):**

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	1.4	7.0
Total Number Struck and Lost	1.4	1.4
Total Number Taken	2.8	8.4
Number Harvested Per Capita	0.07	0.33

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	2	0	0	0	1	0	1	1	0	5
Struck & Lost	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Total Take	0	0	0	0	2	0	0	0	2	0	1	1	0	6
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	1.4	0.0	1.4	1.4	0.0	7.0
Struck & Lost	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	2.8	0.0	0.0	0.0	2.8	0.0	1.4	1.4	0.0	8.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	1.4	0.0	1.4	1.4		7.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0		1.4
Total Take	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	2.8	0.0	1.4	1.4		8.4
Total Take (%)	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	33.3%	0.0%	16.7%	16.7%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	5.6	5.6	7.0	8.4		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	33.3%	33.3%	33.3%	33.3%	66.7%	66.7%	83.3%	100.0%		

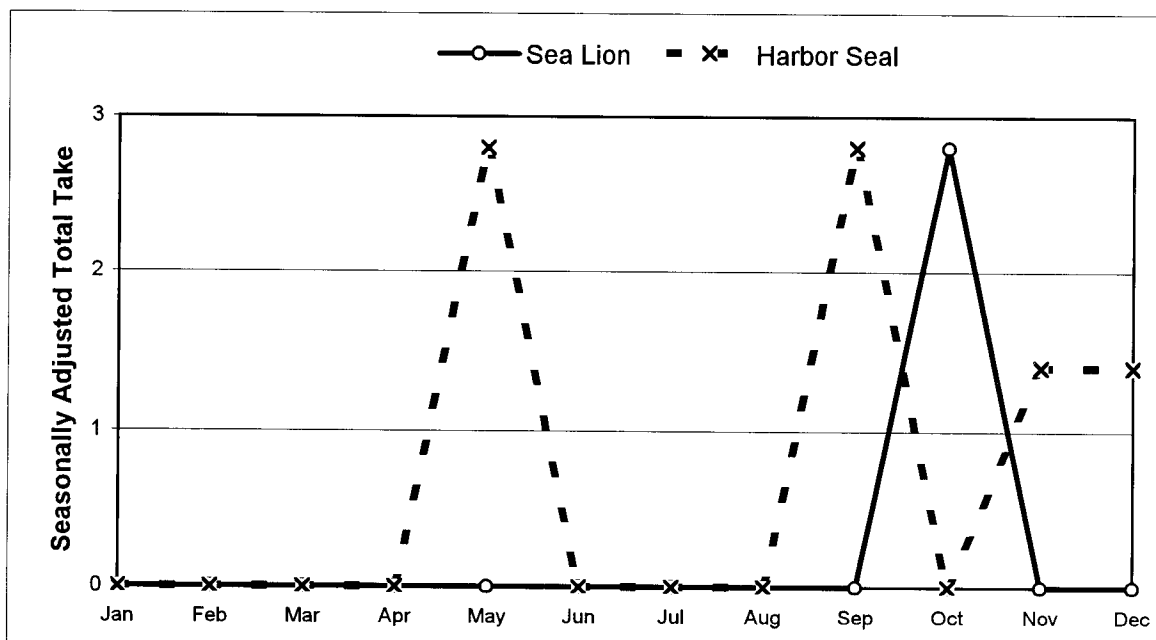
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ivanof Bay Traditional Village Council, 2001.

Table 40. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ivanof Bay, 2001

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	20.0%	1.4	20.0%
Adult Female	0	0.0%	0.0	0.0%	1	20.0%	1.4	20.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	1	100.0%	1.4	100.0%	2	40.0%	2.8	40.0%
Juvenile Female	0	0.0%	0.0	0.0%	1	20.0%	1.4	20.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	1	100.0%	1.4	100.0%	5	100.0%	7.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	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	1995	18.7	2.7	21.3
1996	2.4	0.0	2.4	1996	13.2	0.0	13.2
1997	1.8	0.0	1.8	1997	9.0	1.8	10.8
1998	1.8	0.0	1.8	1998	9.0	1.8	10.8
2000	0.0	0.0	0.0	2000	3.2	0.0	3.2
2001	1.4	1.4	2.8	2001	7.0	1.4	8.4

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, 2001.

Table 41. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: King Cove, 2001

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>				
	Total Native Households	14	15	29
	Surveyed Households	14	7	21
	Sampling Fraction	100.0%	46.7%	72.4%
	Sample Household Members	51	24	75
	Estimated Household Members	51.0	51.4	102.4
	Estimated Native Population	---	---	379.0

HARVEST AND USE INFORMATION

<i>Percentage of Sample 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	10.3%	100.0%	Total Number Harvested	3.0	22.0
Hunted	10.3%	41.4%	Total Number Struck and Lost	0.0	4.0
Harvested	10.3%	34.5%	Total Number Taken	3.0	26.0
Received	0.0%	96.6%			
Gave Away	10.3%	34.5%	Number Harvested Per Capita	0.01	0.06

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	1	1	0	0	0	0	1	0	0	0	0	0	3
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	1	1	0	0	0	0	1	0	0	0	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	3.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	3.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0			3.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0			3.0
Total Take (%)	0.0%	0.0%	33.3%	33.3%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%			100.0%
Cum. Take	0.0	0.0	1.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0			
Cum. Take (%)	0.0%	0.0%	33.3%	66.7%	66.7%	66.7%	66.7%	66.7%	100.0%	100.0%	100.0%	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	2	4	1	0	0	0	4	1	3	5	1	0	0	22
Struck & Lost	1	1	0	0	0	0	0	1	0	1	0	0	0	0	4
Total Take	2	3	4	1	0	0	0	5	1	4	5	1	0	0	26
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	1.0	2.0	4.0	1.0	0.0	0.0	0.0	4.0	1.0	3.0	5.0	1.0	0.0	0.0	22.0
Struck & Lost	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	4.0
Total Take	2.0	3.0	4.0	1.0	0.0	0.0	0.0	5.0	1.0	4.0	5.0	1.0	0.0	0.0	26.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	1.0	2.0	4.0	1.0	0.0	0.0	0.0	4.0	1.0	3.0	5.0	1.0			22.0
Struck & Lost	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0			4.0
Total Take	2.0	3.0	4.0	1.0	0.0	0.0	0.0	5.0	1.0	4.0	5.0	1.0			26.0
Total Take (%)	7.7%	11.5%	15.4%	3.8%	0.0%	0.0%	0.0%	19.2%	3.8%	15.4%	19.2%	3.8%			100.0%
Cum. Take	2.0	5.0	9.0	10.0	10.0	10.0	10.0	15.0	16.0	20.0	25.0	26.0			
Cum. Take (%)	7.7%	19.2%	34.6%	38.5%	38.5%	38.5%	38.5%	57.7%	61.5%	76.9%	96.2%	100.0%			

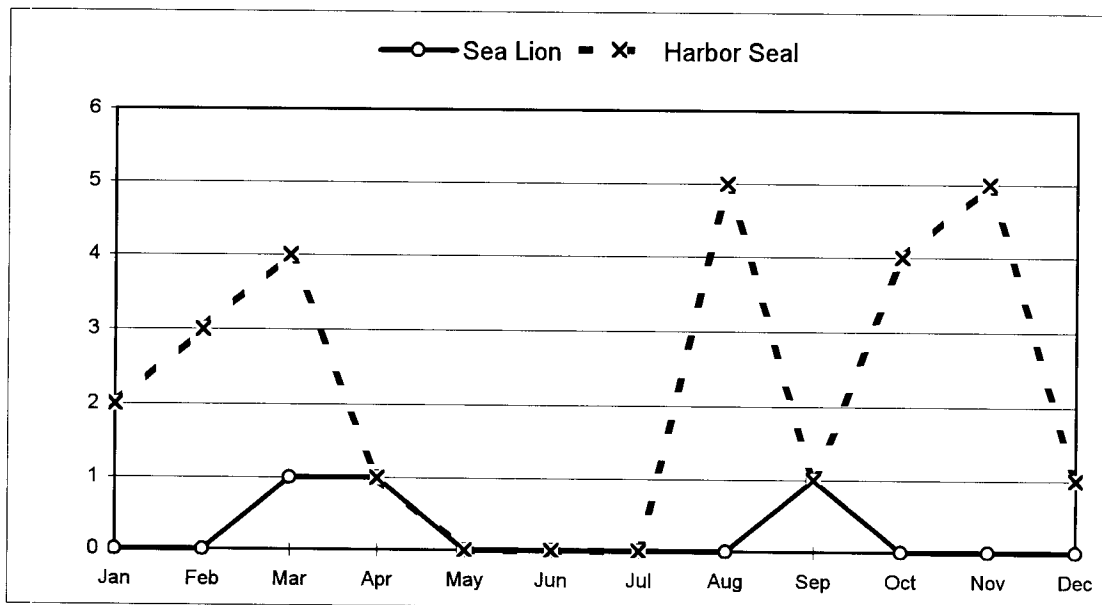
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Agdaagux Tribe of King Cove, Belofski Village Council, and City of King Cove, 2001.

Table 41. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: King Cove, 2001

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	66.7%	2.0	66.7%	11	50.0%	11.0	50.0%
Adult Female	1	33.3%	1.0	33.3%	9	40.9%	9.0	40.9%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%	2	9.1%	2.0	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%
Total	3	100.0%	3.0	100.0%	22	100.0%	22.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	1.3	0.0	1.3	1992	26.0	6.7	32.7
1993	1.2	0.0	1.2	1993	12.8	3.5	16.3
1994	3.2	1.1	4.3	1994	20.9	1.1	22.0
1995	5.0	0.0	5.0	1995	49.0	3.0	52.0
1996	0.0	0.0	0.0	1996	14.0	5.0	19.0
1997	4.2	0.0	4.2	1997	16.9	2.1	19.1
1998	4.3	0.0	4.3	1998	18.2	0.0	18.2
2000	4.3	0.0	4.3	2000	19.3	2.1	21.4
2001	3.0	0.0	3.0	2001	22.0	4.0	26.0

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, 2001.

Table 42. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Perryville, 2001**SAMPLING DESIGN:****CENSUS**

Total Native Households	32
Surveyed Households	28
Sampling Fraction	87.5%
Sample Household Members	94
Estimated Household Members	107.4
Estimated Native Population	105.0

HARVEST AND USE INFORMATION**Percentage of Native Households:**

	Sea Lion	Harbor Seal
Used	14.3%	75.0%
Hunted	7.1%	46.4%
Harvested	3.6%	28.6%
Received	10.7%	57.1%
Gave Away	7.1%	32.1%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	1.1	24.0
Total Number Struck and Lost	0.0	6.9
Total Number Taken	1.1	30.9
Number Harvested Per Capita	0.01	0.23

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	1	0	0	1	0	2	0	1	3	4	3	4	21
Struck & Lost	0	0	0	0	0	0	0	0	0	1	1	0	4	6
Total Take	2	1	0	0	1	0	2	0	1	4	5	3	8	27
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.3	1.1	0.0	0.0	1.1	0.0	2.3	0.0	1.1	3.4	4.6	3.4	4.6	24.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0	4.6	6.9
Total Take	2.3	1.1	0.0	0.0	1.1	0.0	2.3	0.0	1.1	4.6	5.7	3.4	9.1	30.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.8	1.4	0.0	0.0	1.4	0.0	2.8	0.0	1.4	4.2	5.6	4.2		24.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	0.0		6.9
Total Take	2.8	1.4	0.0	0.0	1.4	0.0	2.8	0.0	1.4	7.7	9.1	4.2		30.9
Total Take (%)	9.2%	4.6%	0.0%	0.0%	4.6%	0.0%	9.2%	0.0%	4.6%	24.8%	29.4%	13.7%		100.0%
Cum. Take	2.8	4.2	4.2	4.2	5.6	5.6	8.5	8.5	9.9	17.5	26.6	30.9		
Cum. Take (%)	9.2%	13.7%	13.7%	13.7%	18.3%	18.3%	27.5%	27.5%	32.0%	56.9%	86.3%	100.0%		

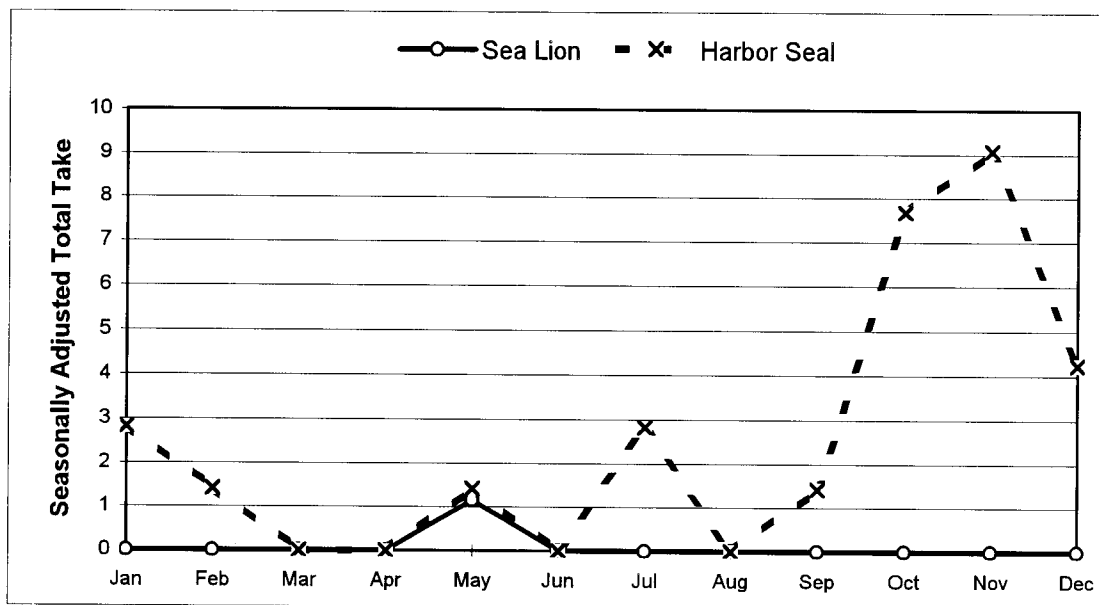
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Perryville Traditional Village Council, 2001.

Table 42. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Perryville, 2001

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%	1.1	100.0%	7	33.3%	8.0	33.3%
Adult Female	0	0.0%	0.0	0.0%	4	19.0%	4.6	19.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	1	4.8%	1.1	4.8%
Juvenile Male	0	0.0%	0.0	0.0%	2	9.5%	2.3	9.5%
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%	7	33.3%	8.0	33.3%
Total	1	100.0%	1.1	100.0%	21	100.0%	24.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	1.1	0.0	1.1	1992	8.9	2.2	11.1
1993	0.0	0.0	0.0	1993	12.8	2.1	15.0
1994	1.4	0.0	1.4	1994	21.1	0.0	21.1
1995	3.1	0.0	3.1	1995	11.0	3.1	14.1
1996	1.3	1.3	2.6	1996	20.5	0.0	20.5
1997	2.3	0.0	2.3	1997	21.7	5.7	27.4
1998	1.1	0.0	1.1	1998	21.0	4.4	25.4
2000	4.5	0.0	4.5	2000	21.0	15.0	36.0
2001	1.1	0.0	1.1	2001	24.0	6.9	30.9

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, 2001.

Table 43. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Sand Point, 2001**SAMPLING DESIGN:****CHAIN REFERRAL**

Total Referred Households	14
Surveyed Households	9
Sampling Fraction	64.3%
Sample Household Members	36
Estimated Household Members	56.0
Estimated Native Population	421.0

HARVEST AND USE INFORMATION**Percentage of Sample Households:**

	Sea Lion	Harbor Seal
Used	22.2%	55.6%
Hunted	22.2%	33.3%
Harvested	22.2%	33.3%
Received	0.0%	44.4%
Gave Away	11.1%	11.1%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	4.7	10.9
Total Number Struck and Lost	0.0	1.6
Total Number Taken	4.7	12.4
Number Harvested Per Capita	0.01	0.03

SEA LION HARVEST BY MONTH													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	0	0	0	0	1	0	1	0	1	0	3
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	1	0	1	0	1	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	1.6	0.0	1.6	0.0	4.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	1.6	0.0	1.6	0.0	4.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	1.6	0.0	1.6		4.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	1.6	0.0	1.6		4.7
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	33.3%	0.0%	33.3%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.1	3.1	4.7		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	33.3%	66.7%	66.7%	100.0%		

HARBOR SEAL HARVEST BY MONTH													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	0	1	0	1	1	2	0	0	0	1	0	7
Struck & Lost	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Total Take	1	0	0	1	0	1	2	2	0	0	0	1	0	8
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.6	0.0	0.0	1.6	0.0	1.6	1.6	3.1	0.0	0.0	0.0	1.6	0.0	10.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6
Total Take	1.6	0.0	0.0	1.6	0.0	1.6	3.1	3.1	0.0	0.0	0.0	1.6	0.0	12.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.6	0.0	0.0	1.6	0.0	1.6	1.6	3.1	0.0	0.0	0.0	1.6		10.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0		1.6
Total Take	1.6	0.0	0.0	1.6	0.0	1.6	3.1	3.1	0.0	0.0	0.0	1.6		12.4
Total Take (%)	12.5%	0.0%	0.0%	12.5%	0.0%	12.5%	25.0%	25.0%	0.0%	0.0%	0.0%	12.5%		100.0%
Cum. Take	1.6	1.6	1.6	3.1	3.1	4.7	7.8	10.9	10.9	10.9	10.9	12.4		
Cum. Take (%)	12.5%	12.5%	12.5%	25.0%	25.0%	37.5%	62.5%	87.5%	87.5%	87.5%	87.5%	100.0%		

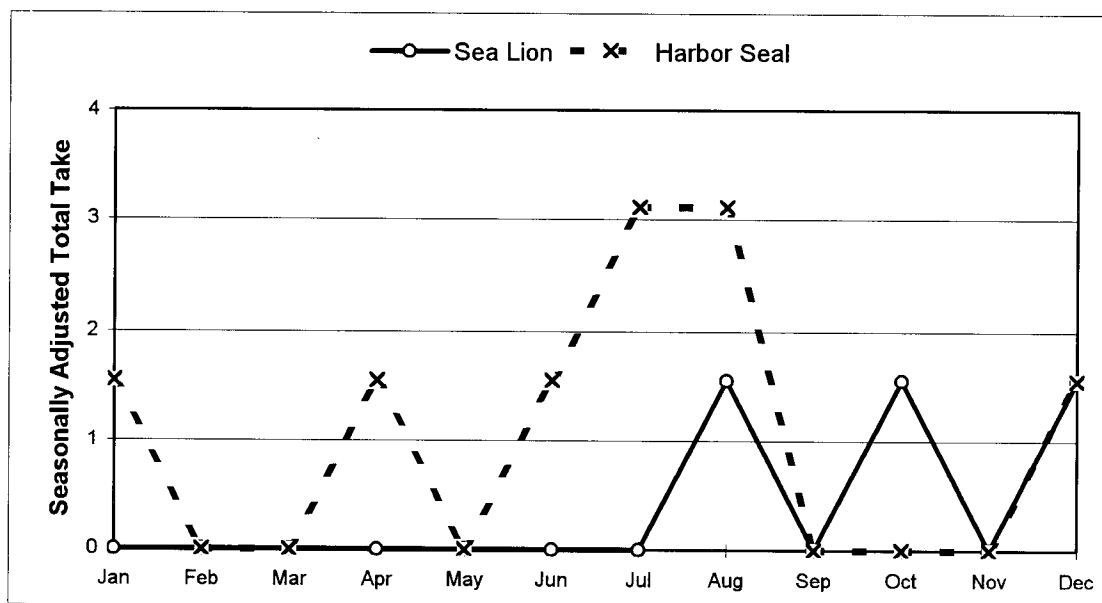
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Sand Point, Unga Tribal Council, and Qagan Tayagungi Tribe of Sand Point, 2001.

Table 43. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Sand Point, 2001

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%	4	57.1%	6.2	57.1%
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%	1	14.3%	1.6	14.3%
Juvenile Male	2	66.7%	3.1	66.7%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	33.3%	1.6	33.3%	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	0	0.0%	0.0	0.0%	2	28.6%	3.1	28.6%
Total	3	100.0%	4.7	100.0%	7	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	37.9	0.0	37.9
1993	0.0	0.0	0.0	1993	13.3	1.2	14.4
1994	0.0	0.0	0.0	1994	7.8	4.3	12.1
1995	0.0	0.0	0.0	1995	9.2	0.0	9.2
1996	0.0	0.0	0.0	1996	20.2	0.0	20.2
1997	0.0	0.0	0.0	1997	9.1	0.0	9.1
1998	2.0	0.0	2.0	1998	12.0	0.0	12.0
2000	5.0	0.0	5.0	2000	15.0	0.0	15.0
2001	4.7	0.0	4.7	2001	10.9	1.6	12.4

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, 2001.

Table 44. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Akutan, 2001**SAMPLING DESIGN:
CENSUS**

Total Native Households	30
Surveyed Households	22
Sampling Fraction	73.3%
Sample Household Members	58
Estimated Household Members	79.1
Estimated Native Population	117.0

HARVEST AND USE INFORMATION**Percentage of Native Households:**

	Sea Lion	Harbor Seal
Used	18.2%	36.4%
Hunted	13.6%	18.2%
Harvested	13.6%	13.6%
Received	13.6%	31.8%
Gave Away	13.6%	13.6%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	15.0	13.6
Total Number Struck and Lost	2.7	2.7
Total Number Taken	17.7	16.4
Number Harvested Per Capita	0.13	0.12

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	1	0	3	0	0	0	0	2	2	0	2	0	11
Struck & Lost	0	0	0	1	0	0	0	0	0	1	0	0	0	2
Total Take	1	1	0	4	0	0	0	0	2	3	0	2	0	13
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.4	1.4	0.0	4.1	0.0	0.0	0.0	0.0	2.7	2.7	0.0	2.7	0.0	15.0
Struck & Lost	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	2.7
Total Take	1.4	1.4	0.0	5.5	0.0	0.0	0.0	0.0	2.7	4.1	0.0	2.7	0.0	17.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.4	1.4	0.0	4.1	0.0	0.0	0.0	0.0	2.7	2.7	0.0	2.7		15.0
Struck & Lost	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0		2.7
Total Take	1.4	1.4	0.0	5.5	0.0	0.0	0.0	0.0	2.7	4.1	0.0	2.7		17.7
Total Take (%)	7.7%	7.7%	0.0%	30.8%	0.0%	0.0%	0.0%	0.0%	15.4%	23.1%	0.0%	15.4%		100.0%
Cum. Take	1.4	2.7	2.7	8.2	8.2	8.2	8.2	8.2	10.9	15.0	15.0	17.7		
Cum. Take (%)	7.7%	15.4%	15.4%	46.2%	46.2%	46.2%	46.2%	46.2%	61.5%	84.6%	84.6%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	1	0	0	2	0	2	1	4	0	0	0	10
Struck & Lost	0	0	1	0	0	1	0	0	0	0	0	0	0	2
Total Take	0	0	2	0	0	3	0	2	1	4	0	0	0	12
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.4	0.0	0.0	2.7	0.0	2.7	1.4	5.5	0.0	0.0	0.0	13.6
Struck & Lost	0.0	0.0	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Total Take	0.0	0.0	2.7	0.0	0.0	4.1	0.0	2.7	1.4	5.5	0.0	0.0	0.0	16.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.4	0.0	0.0	2.7	0.0	2.7	1.4	5.5	0.0	0.0		13.6
Struck & Lost	0.0	0.0	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0		2.7
Total Take	0.0	0.0	2.7	0.0	0.0	4.1	0.0	2.7	1.4	5.5	0.0	0.0		16.4
Total Take (%)	0.0%	0.0%	16.7%	0.0%	0.0%	25.0%	0.0%	16.7%	8.3%	33.3%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	2.7	2.7	2.7	6.8	6.8	9.5	10.9	16.4	16.4	16.4		
Cum. Take (%)	0.0%	0.0%	16.7%	16.7%	16.7%	41.7%	41.7%	58.3%	66.7%	100.0%	100.0%	100.0%		

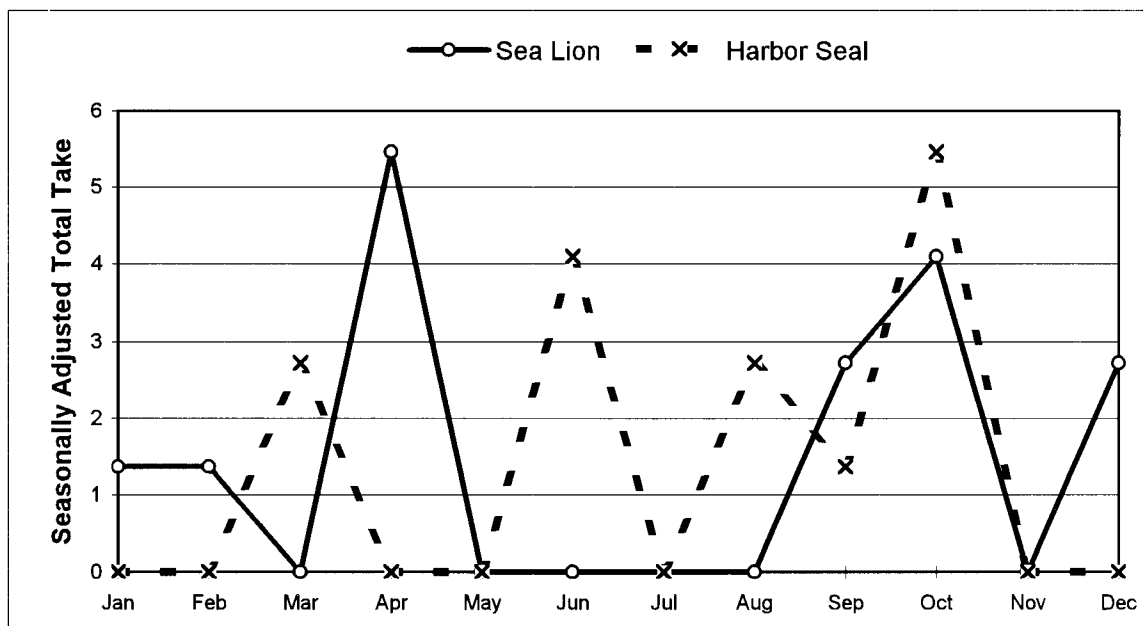
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Akutan Traditional Village Council, City of Akutan, and Akutan Corporation, 2001.

Table 44. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Akutan, 2001

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	36.4%	5.5	36.4%	7	70.0%	9.5	70.0%
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	4	36.4%	5.5	36.4%	2	20.0%	2.7	20.0%
Juvenile Female	1	9.1%	1.4	9.1%	1	10.0%	1.4	10.0%
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	2	18.2%	2.7	18.2%	0	0.0%	0.0	0.0%
Total	11	100.0%	15.0	100.0%	10	100.0%	13.6	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	25.7	4.3	30.0	1992	12.9	4.3	17.1
1993	14.5	8.9	23.4	1993	15.6	4.5	20.1
1994	12.7	3.5	16.2	1994	13.8	3.5	17.3
1995	6.0	0.0	6.0	1995	7.0	0.0	7.0
1996	11.0	5.0	16.0	1996	8.0	7.0	15.0
1997	6.4	0.0	6.4	1997	14.0	3.8	17.8
1998	6.4	0.0	6.4	1998	14.0	3.8	17.8
2000	4.1	1.4	5.4	2000	25.7	5.4	31.1
2001	15.0	2.7	17.7	2001	13.6	2.7	16.4

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, 2001.

Table 45. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Atka, 2001**SAMPLING DESIGN:
CENSUS**

Total Native Households	30
Surveyed Households	18
Sampling Fraction	60.0%
Sample Household Members	50
Estimated Household Members	83.6
Estimated Native Population	84.0

HARVEST AND USE INFORMATION**Percentage of Native Households:**

	Sea Lion	Harbor Seal
Used	88.9%	83.3%
Hunted	33.3%	33.3%
Harvested	33.3%	33.3%
Received	83.3%	66.7%
Gave Away	50.0%	38.9%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	33.3	63.3
Total Number Struck and Lost	11.7	6.7
Total Number Taken	45.0	70.0
Number Harvested Per Capita	0.40	0.75

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	0	4	0	4	1	2	2	1	1	1	1	0	20
Struck & Lost	0	2	3	0	0	0	0	1	0	1	0	0	0	7
Total Take	3	2	7	0	4	1	2	3	1	2	1	1	0	27
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.0	0.0	6.7	0.0	6.7	1.7	3.3	3.3	1.7	1.7	1.7	1.7	0.0	33.3
Struck & Lost	0.0	3.3	5.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	11.7
Total Take	5.0	3.3	11.7	0.0	6.7	1.7	3.3	5.0	1.7	3.3	1.7	1.7	0.0	45.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.0	0.0	6.7	0.0	6.7	1.7	3.3	3.3	1.7	1.7	1.7	1.7		33.3
Struck & Lost	0.0	3.3	5.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0		11.7
Total Take	5.0	3.3	11.7	0.0	6.7	1.7	3.3	5.0	1.7	3.3	1.7	1.7		45.0
Total Take (%)	11.1%	7.4%	25.9%	0.0%	14.8%	3.7%	7.4%	11.1%	3.7%	7.4%	3.7%	3.7%		100.0%
Cum. Take	5.0	8.3	20.0	20.0	26.7	28.3	31.7	36.7	38.3	41.7	43.3	45.0		
Cum. Take (%)	11.1%	18.5%	44.4%	44.4%	59.3%	63.0%	70.4%	81.5%	85.2%	92.6%	96.3%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	3	3	3	4	5	4	4	4	4	1	2	38
Struck & Lost	0	0	0	0	0	0	1	0	3	0	0	0	0	4
Total Take	0	1	3	3	3	4	6	4	7	4	4	1	2	42
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.7	5.0	5.0	5.0	6.7	8.3	6.7	6.7	6.7	6.7	1.7	3.3	63.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	5.0	0.0	0.0	0.0	0.0	6.7
Total Take	0.0	1.7	5.0	5.0	5.0	6.7	10.0	6.7	11.7	6.7	6.7	1.7	3.3	70.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.8	5.3	5.3	5.3	7.0	8.8	7.0	7.0	7.0	7.0	1.8		63.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	5.0	0.0	0.0	0.0		6.7
Total Take	0.0	1.8	5.3	5.3	5.3	7.0	10.5	7.0	12.0	7.0	7.0	1.8		70.0
Total Take (%)	0.0%	2.5%	7.5%	7.5%	7.5%	10.1%	14.9%	10.1%	17.2%	10.1%	10.1%	2.5%		100.0%
Cum. Take	0.0	1.8	7.0	12.3	17.6	24.6	35.1	42.1	54.2	61.2	68.2	70.0		
Cum. Take (%)	0.0%	2.5%	10.1%	17.6%	25.1%	35.2%	50.1%	60.2%	77.4%	87.4%	97.5%	100.0%		

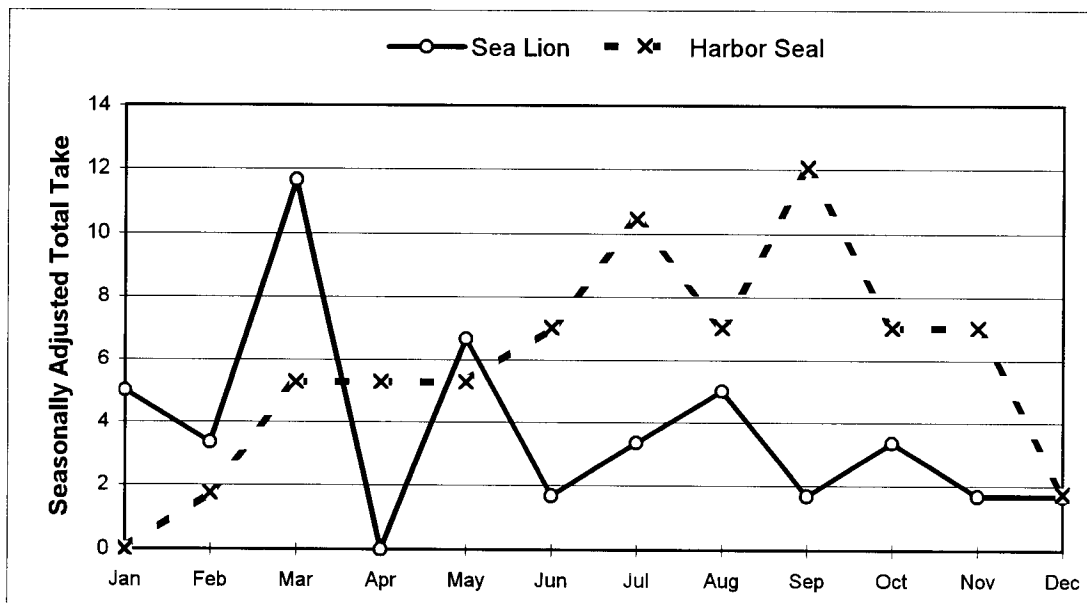
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Atka IRA Council and City of Atka, 2001.

Table 45. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Atka, 2001

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	30.0%	10.0	30.0%	8	21.1%	13.3	21.1%
Adult Female	1	5.0%	1.7	5.0%	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%	15	39.5%	25.0	39.5%
Juvenile Female	0	0.0%	0.0	0.0%	3	7.9%	5.0	7.9%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	13	65.0%	21.7	65.0%	12	31.6%	20.0	31.6%
Total	20	100.0%	33.3	100.0%	38	100.0%	63.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	28.6	9.9	38.5	1992	28.6	9.9	38.5
1993	25.1	0.0	25.1	1993	32.7	0.0	32.7
1994	45.5	8.7	54.2	1994	73.7	8.7	82.3
1995	40.0	0.0	40.0	1995	42.5	0.0	42.5
1996	17.3	0.0	17.3	1996	22.7	2.2	24.8
1997	12.2	0.0	12.2	1997	26.0	1.5	27.5
1998	16.8	0.0	16.8	1998	16.8	0.0	16.8
2000	16.8	0.0	16.8	2000	16.8	0.0	16.8
2001	33.3	11.7	45.0	2001	63.3	6.7	70.0

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, 2001.

Table 46. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Nikolski, 2001**SAMPLING DESIGN:****CENSUS**

Total Native Households	12
Surveyed Households	9
Sampling Fraction	75.0%
Sample Household Members	12
Estimated Household Members	16.5
Estimated Native Population	27.0

HARVEST AND USE INFORMATION**Percentage of Native Households:**

	Sea Lion	Harbor Seal
Used	66.7%	55.6%
Hunted	22.2%	22.2%
Harvested	22.2%	22.2%
Received	66.7%	44.4%
Gave Away	22.2%	11.1%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	6.7	5.3
Total Number Struck and Lost	0.0	0.0
Total Number Taken	6.7	5.3
Number Harvested Per Capita	0.25	0.20

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	1	1	0	3	0	0	0	0	5
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	1	1	0	3	0	0	0	0	5
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0	4.0	0.0	0.0	0.0	0.0	6.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0	4.0	0.0	0.0	0.0	0.0	6.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0	4.0	0.0	0.0	0.0		6.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	1.3	1.3	0.0	4.0	0.0	0.0	0.0		6.7
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	20.0%	0.0%	60.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	1.3	2.7	2.7	6.7	6.7	6.7	6.7		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	40.0%	40.0%	100.0%	100.0%	100.0%	100.0%		

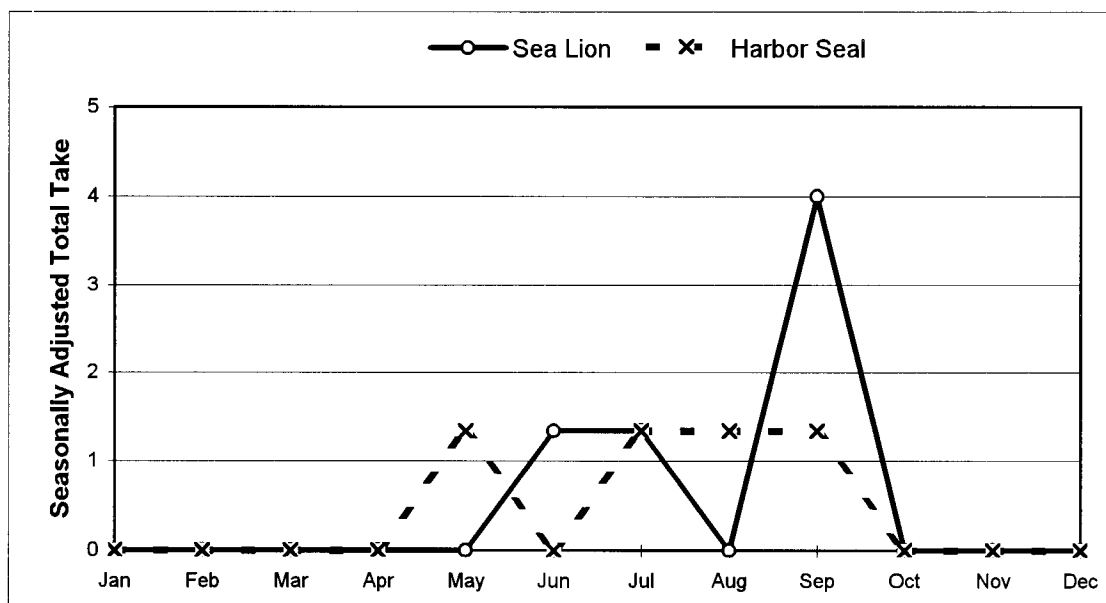
HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	1	0	1	1	1	0	0	0	0	4
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	1	0	1	1	1	0	0	0	0	4
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.3	0.0	1.3	1.3	1.3	0.0	0.0	0.0	0.0	5.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	1.3	0.0	1.3	1.3	1.3	0.0	0.0	0.0	0.0	5.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.3	0.0	1.3	1.3	1.3	0.0	0.0	0.0		5.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	1.3	0.0	1.3	1.3	1.3	0.0	0.0	0.0		5.3
Total Take (%)	0.0%	0.0%	0.0%	0.0%	25.0%	0.0%	25.0%	25.0%	25.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	1.3	1.3	2.7	4.0	5.3	5.3	5.3	5.3		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	25.0%	25.0%	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 Nikolski IRA Council and Chaluka Corporation, 2001.

Table 46. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Nikolski, 2001**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	80.0%	5.3	80.0%	2	50.0%	2.7	50.0%
Adult Female	0	0.0%	0.0	0.0%	1	25.0%	1.3	25.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	1	25.0%	1.3	25.0%
Juvenile Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	20.0%	1.3	20.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	5	100.0%	6.7	100.0%	4	100.0%	5.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL**ESTIMATED COMMUNITY HARVEST, STRUCK AND LOST, AND TAKE BY YEAR**

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	8.2	0.0	8.2	1992	5.8	3.5	9.3
1993	6.0	0.0	6.0	1993	4.0	1.0	5.0
1994	0.0	0.0	0.0	1994	6.0	0.0	6.0
1995	---	---	---	1995	---	---	---
1996	3.0	0.0	3.0	1996	4.0	1.0	5.0
1997	3.0	0.0	3.0	1997	4.0	1.0	5.0
1998	1.1	0.0	1.1	1998	2.2	0.0	2.2
2000	1.1	0.0	1.1	2000	2.2	0.0	2.2
2001	6.7	0.0	6.7	2001	5.3	0.0	5.3

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, 2001.

Table 47. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Unalaska, 2001

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>				
	Total Native Households	21	57	78
	Surveyed Households	20	39	59
	Sampling Fraction	95.2%	68.4%	75.6%
	Sample Household Members	58	98	156
	Estimated Household Members	60.9	142.5	203.4
	Estimated Native Population	---	---	397.0

HARVEST AND USE INFORMATION*Percentage of Native Households:*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Used	51.5%	52.6%
Hunted	13.5%	12.1%
Harvested	13.5%	12.1%
Received	46.1%	44.5%
Gave Away	12.1%	14.0%

Estimated Community Harvest and Take (Expanded):

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	23.1	37.8
Total Number Struck and Lost	5.3	3.2
Total Number Taken	28.4	41.0
Number Harvested Per Capita	0.06	0.10

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	3	0	2	5	1	4	1	1	5	0	0	22
Struck & Lost	0	0	0	0	0	0	3	0	0	0	2	0	0	5
Total Take	0	0	3	0	2	5	4	4	1	1	7	0	0	27
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	3.2	0.0	2.1	5.3	1.1	4.2	1.1	1.1	5.3	0.0	0.0	23.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	2.1	0.0	0.0	5.3
Total Take	0.0	0.0	3.2	0.0	2.1	5.3	4.2	4.2	1.1	1.1	7.4	0.0	0.0	28.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	3.2	0.0	2.1	5.3	1.1	4.2	1.1	1.1	5.3	0.0		23.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	2.1	0.0		5.3
Total Take	0.0	0.0	3.2	0.0	2.1	5.3	4.2	4.2	1.1	1.1	7.4	0.0		28.4
Total Take (%)	0.0%	0.0%	11.1%	0.0%	7.4%	18.5%	14.8%	14.8%	3.7%	3.7%	25.9%	0.0%		100.0%
Cum. Take	0.0	0.0	3.2	3.2	5.3	10.5	14.7	18.9	20.0	21.0	28.4	28.4		
Cum. Take (%)	0.0%	0.0%	11.1%	11.1%	18.5%	37.0%	51.9%	66.7%	70.4%	74.1%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	9	3	3	0	0	5	5	2	2	1	3	3	0	36
Struck & Lost	1	0	0	0	1	0	0	0	0	1	0	0	0	3
Total Take	10	3	3	0	1	5	5	2	2	2	3	3	0	39
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	9.5	3.2	3.2	0.0	0.0	5.3	5.3	2.1	2.1	1.1	3.2	3.2	0.0	37.8
Struck & Lost	1.1	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	3.2
Total Take	10.5	3.2	3.2	0.0	1.1	5.3	5.3	2.1	2.1	2.1	3.2	3.2	0.0	41.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	9.5	3.2	3.2	0.0	0.0	5.3	5.3	2.1	2.1	1.1	3.2	3.2		37.8
Struck & Lost	1.1	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0		3.2
Total Take	10.5	3.2	3.2	0.0	1.1	5.3	5.3	2.1	2.1	2.1	3.2	3.2		41.0
Total Take (%)	25.6%	7.7%	7.7%	0.0%	2.6%	12.8%	12.8%	5.1%	5.1%	5.1%	7.7%	7.7%		100.0%
Cum. Take	10.5	13.7	16.8	16.8	17.9	23.1	28.4	30.5	32.6	34.7	37.8	41.0		
Cum. Take (%)	25.6%	33.3%	41.0%	41.0%	43.6%	56.4%	69.2%	74.4%	79.5%	84.6%	92.3%	100.0%		

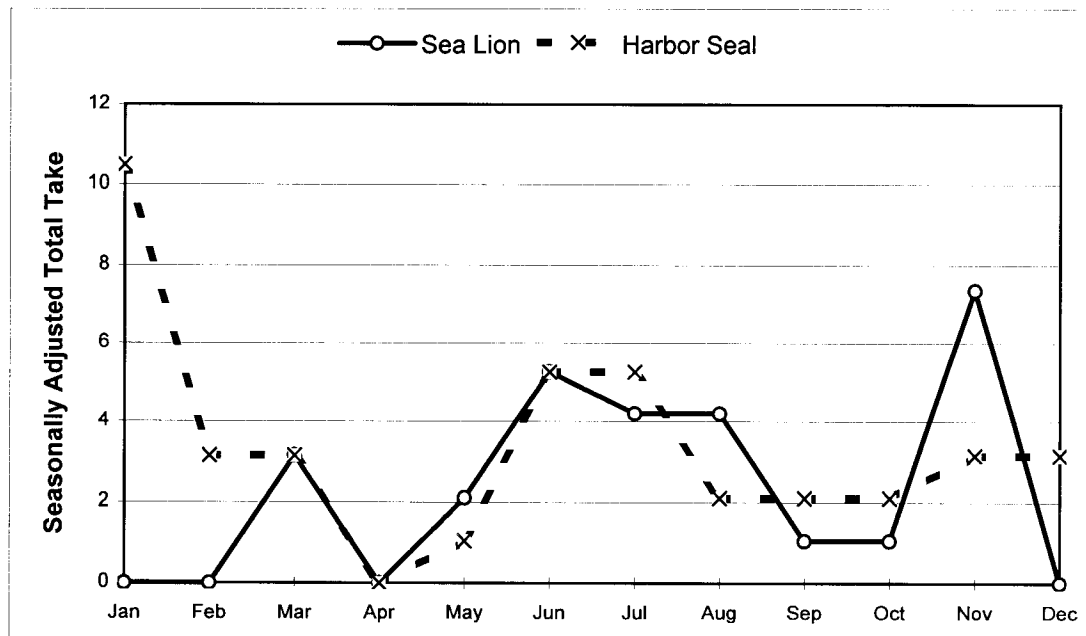
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qawalangin Tribal Council, 2001.

Table 47. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Unalaska, 2001

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	18.2%	4.2	18.2%	8	22.2%	8.4	22.2%
Adult Female	4	18.2%	4.2	18.2%	3	8.3%	3.2	8.3%
Adult Unknown Sex	0	0.0%	0.0	0.0%	5	13.9%	5.3	13.9%
Juvenile Male	8	36.4%	8.4	36.4%	16	44.4%	16.8	44.4%
Juvenile Female	4	18.2%	4.2	18.2%	4	11.1%	4.2	11.1%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	2	9.1%	2.1	9.1%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	22	100.0%	23.1	100.0%	36	100.0%	37.8	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	41.8	16.7	58.5	1992	47.0	3.7	50.8
1993	53.4	15.9	69.3	1993	32.7	9.9	42.6
1994	43.6	8.4	51.9	1994	31.4	10.5	41.8
1995	39.0	11.1	50.1	1995	37.4	9.7	47.1
1996	15.2	6.3	21.6	1996	20.3	5.1	25.4
1997	29.1	1.3	30.3	1997	26.5	0.0	26.5
1998	7.3	5.5	12.7	1998	12.7	0.0	12.7
2000	49.2	3.4	52.6	2000	34.3	5.1	39.4
2001	23.1	5.3	28.4	2001	37.8	3.2	41.0

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, 2001.

Table 48. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: St. George, 2001

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>				
	Total Native Households	4	41	45
	Surveyed Households	4	6	10
	Sampling Fraction	100.0%	14.6%	22.2%
	Sample Household Members	14	21	35
	Estimated Household Members	14.0	143.5	157.5
	Estimated Native Population	---	---	140.0

HARVEST AND USE INFORMATION

Percentage of Native Households:

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Used	37.0%	2.2%
Hunted	8.9%	2.2%
Harvested	6.7%	0.0%
Received	34.8%	2.2%
Gave Away	6.7%	2.2%

Estimated Community Harvest and Take (Expanded):

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	7.0	0.0
Total Number Struck and Lost	7.0	1.0
Total Number Taken	14.0	1.0
Number Harvested Per Capita	0.05	0.00

SEA LION HARVEST BY MONTH													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	5	1	0	0	0	0	0	0	0	0	7
Struck & Lost	1	0	1	4	1	0	0	0	0	0	0	0	0	7
Total Take	1	0	2	9	2	0	0	0	0	0	0	0	0	14
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
Struck & Lost	1.0	0.0	1.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
Total Take	1.0	0.0	2.0	9.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harves:	0.0	0.0	1.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		7.0
Struck & Lost	1.0	0.0	1.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		7.0
Total Take	1.0	0.0	2.0	9.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		14.0
Total Take (%)	7.1%	0.0%	14.3%	64.3%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	1.0	1.0	3.0	12.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0		
Cum. Take (%)	7.1%	7.1%	21.4%	85.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH													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	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Total Take	0	0	0	1	0	0	0	0	0	0	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	1.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck & Lost	0.0	0.0	0.0	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	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%	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	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%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

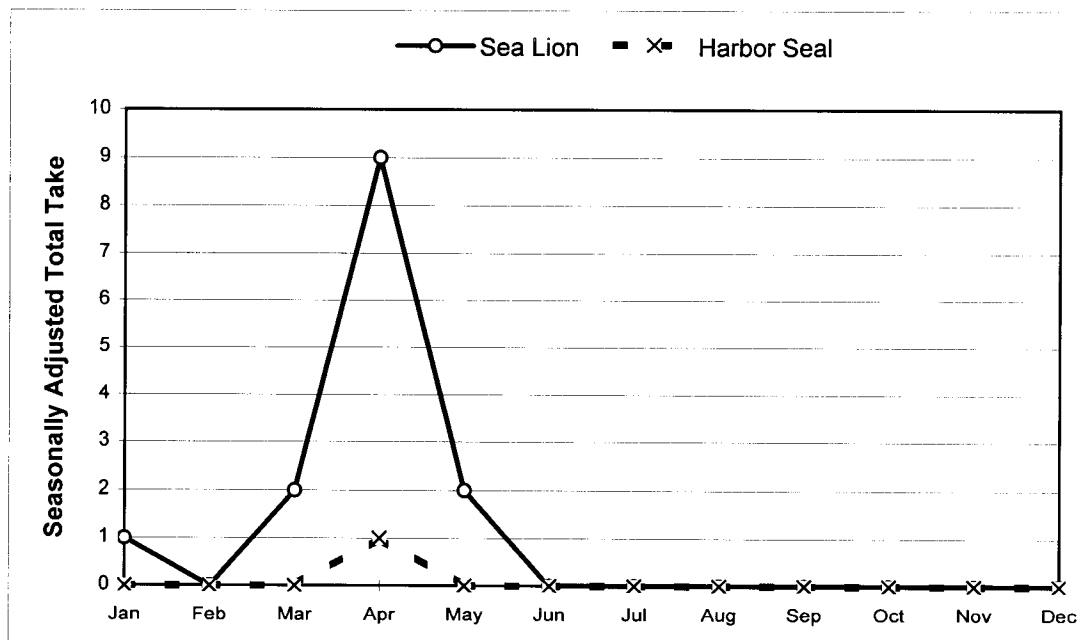
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, 2001.

Table 48. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: St. George, 2001

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%	0.0	0.0%	0	---	0.0	---
Juvenile Male	3	42.9%	3.0	42.9%	0	---	0.0	---
Juvenile Female	4	57.1%	4.0	57.1%	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	7	100.0%	7.0	100.0%	0	---	0.0	---

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	14.9	55.0	69.9	1992	0.0	0.0	0.0
1993	3.7	14.8	18.6	1993	0.0	0.0	0.0
1994	2.8	17.1	19.9	1994	0.0	0.0	0.0
1995	4.0	4.0	8.0	1995	0.0	0.0	0.0
1996	4.0	4.0	8.0	1996	0.0	0.0	0.0
1997	19.6	8.1	27.7	1997	0.0	0.0	0.0
1998	11.8	8.5	20.3	1998	0.0	0.0	0.0
2000	11.8	8.5	20.3	2000	0.0	0.0	0.0
2001	7.0	7.0	14.0	2001	0.0	1.0	1.0

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, 2001.

Table 49. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: St. Paul, 2001**SAMPLING DESIGN:
CENSUS**

Total Native Households	N/A
Surveyed Households	N/A
Sampling Fraction	N/A
Sample Household Members	N/A
Estimated Household Members	N/A
Estimated Native Population	460.0

HARVEST AND USE INFORMATION**Percentage of Native Households:**

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

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	12.0	N/A
Total Number Struck and Lost	12.0	N/A
Total Number Taken	24.0	N/A
Number Harvested Per Capita	0.03	N/A

SEA LION HARVEST BY MONTH														Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	1	1	0	1	2	0	0	0	2	4	1	0	0	0	12
Struck & Lost	0	1	0	0	7	0	0	0	0	3	1	0	0	0	12
Total Take	1	2	0	1	9	0	0	0	2	7	2	0	0	0	24
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	1.0	1.0	0.0	1.0	2.0	0.0	0.0	0.0	2.0	4.0	1.0	0.0	0.0	0.0	12.0
Struck & Lost	0.0	1.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	3.0	1.0	0.0	0.0	0.0	12.0
Total Take	1.0	2.0	0.0	1.0	9.0	0.0	0.0	0.0	2.0	7.0	2.0	0.0	0.0	0.0	24.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	1.0	1.0	0.0	1.0	2.0	0.0	0.0	0.0	2.0	4.0	1.0	0.0			12.0
Struck & Lost	0.0	1.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	3.0	1.0	0.0			12.0
Total Take	1.0	2.0	0.0	1.0	9.0	0.0	0.0	0.0	2.0	7.0	2.0	0.0			24.0
Total Take (%)	4.2%	8.3%	0.0%	4.2%	37.5%	0.0%	0.0%	0.0%	8.3%	29.2%	8.3%	0.0%			100.0%
Cum. Take	1.0	3.0	3.0	4.0	13.0	13.0	13.0	13.0	15.0	22.0	24.0	24.0			
Cum. Take (%)	4.2%	12.5%	12.5%	16.7%	54.2%	54.2%	54.2%	54.2%	62.5%	91.7%	100.0%	100.0%			
HARBOR SEAL HARVEST BY MONTH														Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Struck & Lost	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Take	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Struck & Lost	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Take	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Struck & Lost	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Take	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Take (%)															
Cum. Take															
Cum. Take (%)															

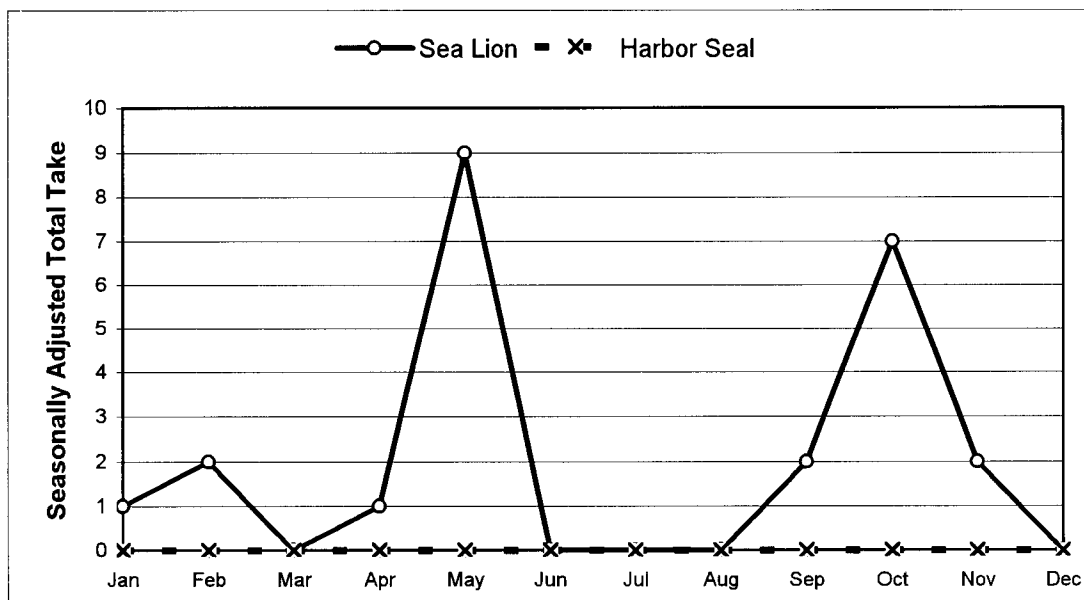
SOURCE: Lestenkof A. D., Zavadi, P.A., and Williams, M.T. 2002. The subsistence harvest of Steller sea lions on St. Paul Island in 2001.
St. Paul Island, Pribilof Islands, Alaska.

Table 49. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: St. Paul, 2001

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	8.3%	1.0	8.3%	N/A		N/A	
Adult Female	0	0.0%	0.0	0.0%	N/A		N/A	
Adult Unknown Sex	0	0.0%	0.0	0.0%	N/A		N/A	
Juvenile Male	11	91.7%	11.0	91.7%	N/A		N/A	
Juvenile Female	0	0.0%	0.0	0.0%	N/A		N/A	
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	N/A		N/A	
Pup Male	0	0.0%	0.0	0.0%	N/A		N/A	
Pup Female	0	0.0%	0.0	0.0%	N/A		N/A	
Pup Unknown Sex	0	0.0%	0.0	0.0%	N/A		N/A	
Male Unknown Age	0	0.0%	0.0	0.0%	N/A		N/A	
Female Unknown Age	0	0.0%	0.0	0.0%	N/A		N/A	
Unknown Sex and Age	0	0.0%	0.0	0.0%	N/A		N/A	
Total	12	100.0%	12.0	100.0%	N/A		N/A	

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	161.7	65.2	226.8	1992	2.3	1.2	3.5
1993	161.7	65.2	226.8	1993	2.3	1.2	3.5
1994	147.0	26.4	173.4	1994	7.3	0.0	7.3
1995	53.6	6.3	59.9	1995	2.5	0.0	2.5
1996	28.2	10.2	38.4	1996	0.0	0.0	0.0
1997	25.9	2.3	28.2	1997	0.0	0.0	0.0
1998	41.0	16.9	57.8	1998	4.6	0.0	4.6
2000	12.0	4.0	16.0	2000	N/A	N/A	N/A
2001	12.0	12.0	24.0	2001	N/A	N/A	N/A

SOURCE: Lestenkof A. D., Zavadil, P.A., and Williams, M.T. 2002. The subsistence harvest of Steller sea lions on St. Paul Island, Pribilof Islands, Alaska. (Source for 2000 historic sea lion data: Lestenkof, A.D. and Zavadil, P.A. 2001. 1999-2000 stellar sea lion subsistence hunting report. Aleut Community of St. Paul Island, Tribal Government, Ecosystem Conservation Office. St. Paul Island, Pribilof Islands, Alaska.)

Table 50. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Egegik, 2001

SAMPLING DESIGN:

CENSUS

Total Native Households	25
Surveyed Households	24
Sampling Fraction	96.0%
Sample Household Members	51
Estimated Household Members	53.1
Estimated Native Population	89.0

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea Lion	Harbor Seal
Used	0.0%	8.3%
Hunted	0.0%	12.5%
Harvested	0.0%	8.3%
Received	0.0%	0.0%
Gave Away	0.0%	8.3%

*Estimated Community Harvest
and Take (Expanded):*

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	6.3
Total Number Struck and Lost	0.0	1.0
Total Number Taken	0.0	7.3
Number Harvested Per Capita	0.00	0.07

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	5	1	0	0	0	0	0	6
Struck & Lost	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Total Take	0	0	0	0	0	0	6	1	0	0	0	0	0	7
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	5.2	1.0	0.0	0.0	0.0	0.0	0.0	6.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	6.3	1.0	0.0	0.0	0.0	0.0	0.0	7.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	5.2	1.0	0.0	0.0	0.0	0.0		6.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0		1.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	6.3	1.0	0.0	0.0	0.0	0.0		7.3
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	85.7%	14.3%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	6.3	7.3	7.3	7.3	7.3	7.3		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	85.7%	100.0%	100.0%	100.0%	100.0%	100.0%		

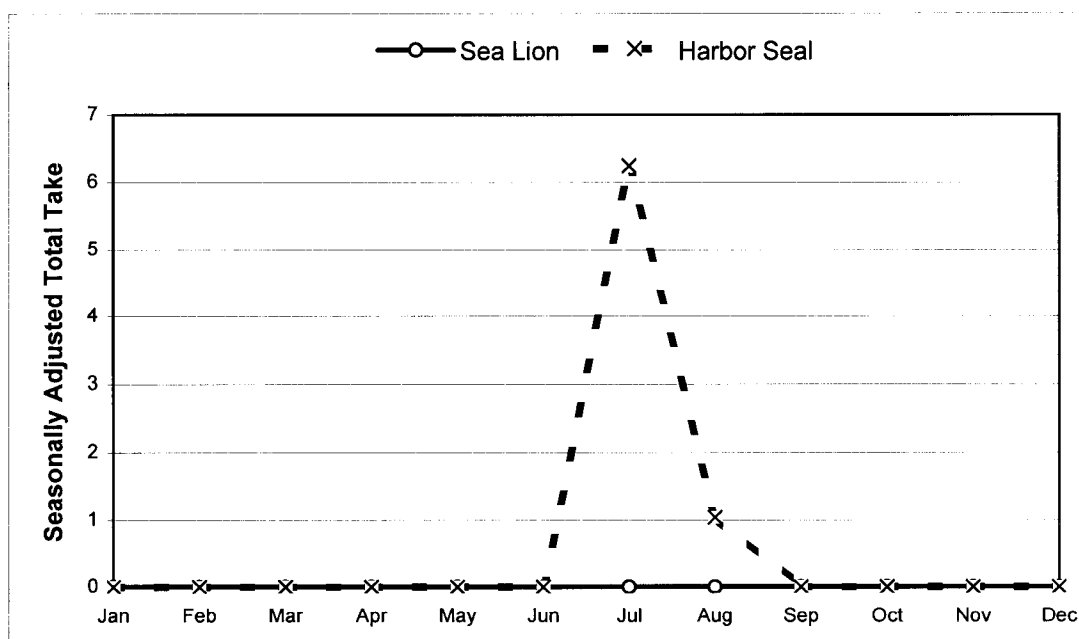
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Egegik Traditional Council, 2001.

Table 50. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Egegik, 2001

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	66.7%	4.2	66.7%
Adult Female	0	---	0.0	---	1	16.7%	1.0	16.7%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	1	16.7%	1.0	16.7%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	6	100.0%	6.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	3.3	14.3	17.7
1993	0.0	0.0	0.0	1993	7.7	3.3	11.0
1994	0.0	0.0	0.0	1994	12.8	0.0	12.8
1995	0.0	0.0	0.0	1995	1.4	0.0	1.4
1996	0.0	0.0	0.0	1996	2.8	0.0	2.8
1997	0.0	0.0	0.0	1997	1.6	0.0	1.6
1998	0.0	0.0	0.0	1998	0.0	0.0	0.0
2000	0.0	0.0	0.0	2000	4.0	3.0	7.0
2001	0.0	0.0	0.0	2001	6.3	1.0	7.3

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Egegik Traditional Council, 2001.

Table 51. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: King Salmon, 2001**SAMPLING DESIGN:
CENSUS**

Total Native Households	28
Surveyed Households	23
Sampling Fraction	82.1%
Sample Household Members	74
Estimated Household Members	90.1
Estimated Native Population	133.0

HARVEST AND USE INFORMATION*Percentage of Native Households:*

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	26.1%
Hunted	0.0%	17.4%
Harvested	0.0%	17.4%
Received	0.0%	17.4%
Gave Away	0.0%	21.7%

*Estimated Community Harvest
and Take (Expanded):*

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	8.5
Total Number Struck and Lost	0.0	6.1
Total Number Taken	0.0	14.6
Number Harvested Per Capita	0.00	0.06

SEA LION HARVEST BY MONTH														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	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	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	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			

HARBOR SEAL HARVEST BY MONTH														Unknown 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	0	4	0	0	0	3	0	0	0	0	0	7
Struck & Lost	0	0	0	2	0	0	0	0	3	0	0	0	0	0	5
Total Take	0	0	0	2	4	0	0	0	6	0	0	0	0	0	12
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	8.5
Struck & Lost	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	6.1
Total Take	0.0	0.0	0.0	2.4	4.9	0.0	0.0	0.0	7.3	0.0	0.0	0.0	0.0	0.0	14.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	3.7	0.0	0.0	0.0			8.5
Struck & Lost	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0			6.1
Total Take	0.0	0.0	0.0	2.4	4.9	0.0	0.0	0.0	7.3	0.0	0.0	0.0			14.6
Total Take (%)	0.0%	0.0%	0.0%	16.7%	33.3%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%			100.0%
Cum. Take	0.0	0.0	0.0	2.4	7.3	7.3	7.3	7.3	14.6	14.6	14.6	14.6			
Cum. Take (%)	0.0%	0.0%	0.0%	16.7%	50.0%	50.0%	50.0%	50.0%	100.0%	100.0%	100.0%	100.0%			

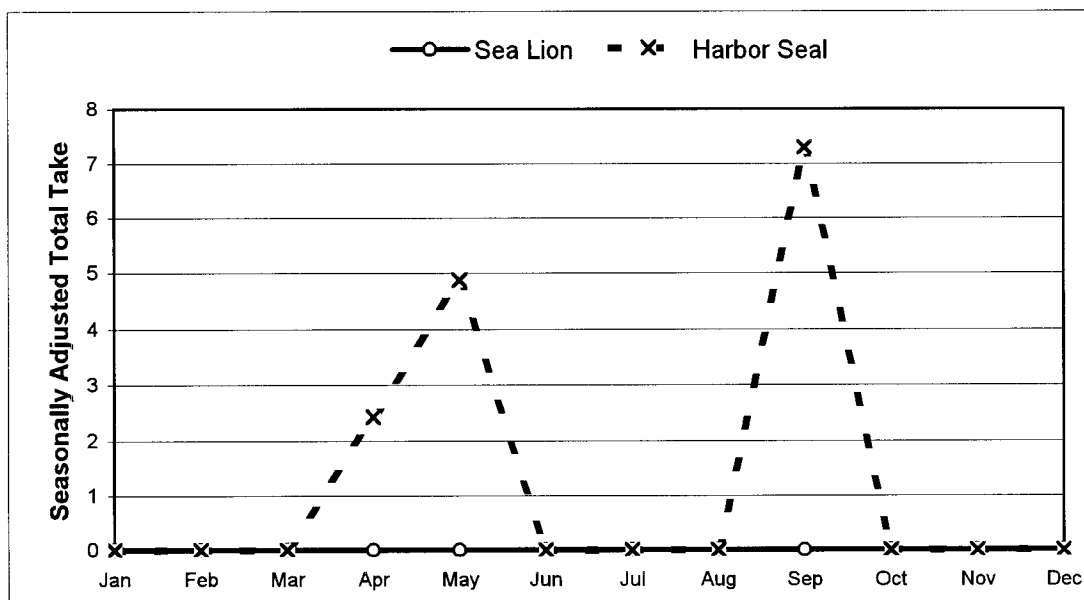
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the King Salmon Traditional Council, 2001.

Table 51. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: King Salmon, 2001

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	42.9%	3.7	42.9%
Adult Female	0	---	0.0	---	1	14.3%	1.2	14.3%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	2	28.6%	2.4	28.6%
Juvenile Female	0	---	0.0	---	1	14.3%	1.2	14.3%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	7	100.0%	8.5	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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	8.5	6.1	14.6
1995	0.0	0.0	0.0	1995	13.0	3.0	16.0
1996	0.0	0.0	0.0	1996	9.5	2.4	11.9
1997	0.0	0.0	0.0	1997	9.7	0.0	9.7
1998	0.0	0.0	0.0	1998	5.2	0.0	5.2
2000	0.0	0.0	0.0	2000	3.3	9.8	13.0
2001	0.0	0.0	0.0	2001	8.5	6.1	14.6

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, 2001.

Table 52. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Levelock, 2001**SAMPLING DESIGN:
CENSUS**

Total Native Households	19
Surveyed Households	13
Sampling Fraction	68.4%
Sample Household Members	43
Estimated Household Members	62.8
Estimated Native Population	116.0

HARVEST AND USE INFORMATION**Percentage of Native Households:**

	Sea Lion	Harbor Seal
Used	0.0%	84.6%
Hunted	0.0%	7.7%
Harvested	0.0%	0.0%
Received	0.0%	84.6%
Gave Away	0.0%	61.5%

**Estimated Community Harvest
and Take (Expanded):**

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

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

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

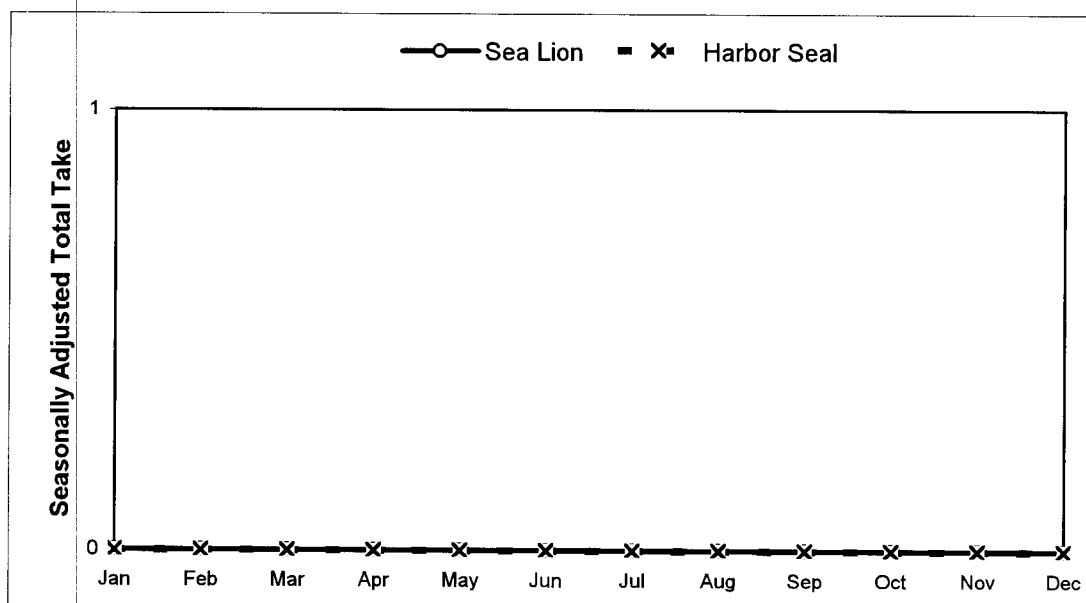
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Levelock Traditional Council, 2001.

Table 52. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Levelock, 2001

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	0	---	0.0	---
Adult Female	0	---	0.0	---	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---
Juvenile Male	0	---	0.0	---	0	---	0.0	---
Juvenile Female	0	---	0.0	---	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---	0	---	0.0	---
Pup Male	0	---	0.0	---	0	---	0.0	---
Pup Female	0	---	0.0	---	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---	0	---	0.0	---
Male Unknown Age	0	---	0.0	---	0	---	0.0	---
Female Unknown Age	0	---	0.0	---	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---	0	---	0.0	---
Total	0	---	0.0	---	0	---	0.0	---

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	10.8	0.0	10.8
1993	0.0	0.0	0.0	1993	2.7	5.4	8.1
1994	0.0	0.0	0.0	1994	0.0	0.0	0.0
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0
1996	0.0	0.0	0.0	1996	0.0	0.0	0.0
1997	0.0	0.0	0.0	1997	0.0	0.0	0.0
1998	0.0	0.0	0.0	1998	0.0	0.0	0.0
2000	0.0	0.0	0.0	2000	2.8	0.0	2.8
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0

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, 2001.

Table 53. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Naknek, 2001

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>				
	Total Native Households	14	34	48
	Surveyed Households	13	23	36
	Sampling Fraction	92.9%	67.6%	75.0%
	Sample Household Members	31	71	102
	Estimated Household Members	33.4	105.0	138.3
	Estimated Native Population	---	---	319.0

HARVEST AND USE INFORMATION*Percentage of Native Households:*

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Used	0.0%	17.4%
Hunted	0.0%	6.7%
Harvested	0.0%	6.7%
Received	0.0%	12.9%
Gave Away	0.0%	9.8%

Estimated Community Harvest and Take (Expanded):

	<u>Sea</u>	<u>Harbor</u>
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	0.0	15.1
Total Number Struck and Lost	0.0	4.3
Total Number Taken	0.0	19.4
Number Harvested Per Capita	0.00	0.05

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
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		

HARBOR SEAL HARVEST BY MONTH													Unknown	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	7	4	2	0	0	0	0	0	1	14
Struck & Lost	0	0	0	0	2	2	0	0	0	0	0	0	0	4
Total Take	0	0	0	0	9	6	2	0	0	0	0	0	1	18
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	7.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0	1.1	15.1
Struck & Lost	0.0	0.0	0.0	0.0	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
Total Take	0.0	0.0	0.0	0.0	9.7	6.5	2.2	0.0	0.0	0.0	0.0	0.0	1.1	19.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	8.1	4.6	2.3	0.0	0.0	0.0	0.0	0.0		15.1
Struck & Lost	0.0	0.0	0.0	0.0	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0		4.3
Total Take	0.0	0.0	0.0	0.0	10.3	6.8	2.3	0.0	0.0	0.0	0.0	0.0		19.4
Total Take (%)	0.0%	0.0%	0.0%	0.0%	53.0%	35.0%	12.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	10.3	17.1	19.4	19.4	19.4	19.4	19.4	19.4		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	53.0%	88.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

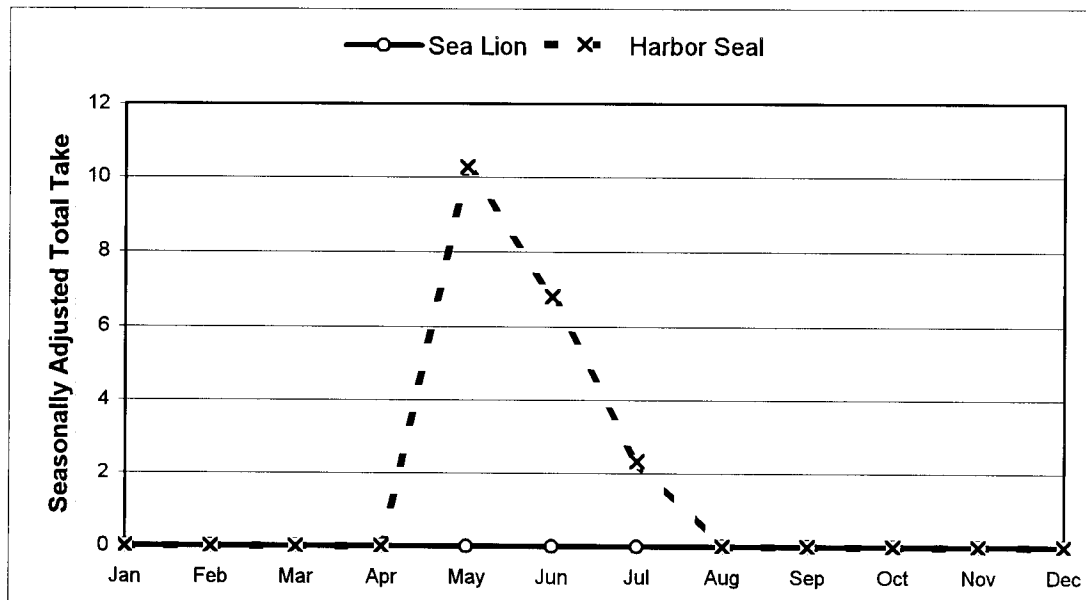
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Naknek Traditional Council, 2001.

Table 53. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Naknek, 2001

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	---	7	50.0%	7.5	50.0%
Adult Female	0	---	0.0	---	6	42.9%	6.5	42.9%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	1	7.1%	1.1	7.1%
Total	0	---	0.0	---	14	100.0%	15.1	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	26.6	7.0	33.6
1993	0.0	0.0	0.0	1993	2.7	0.0	2.7
1994	0.0	0.0	0.0	1994	21.4	8.3	29.7
1995	0.0	0.0	0.0	1995	34.8	15.3	50.2
1996	0.0	0.0	0.0	1996	16.2	7.5	23.7
1997	0.0	0.0	0.0	1997	24.8	6.5	31.2
1998	0.0	0.0	0.0	1998	15.7	7.8	23.5
2000	0.0	0.0	0.0	2000	16.3	0.0	16.3
2001	0.0	0.0	0.0	2001	15.1	4.3	19.4

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, 2001.

Table 54. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Pilot Point, 2001**SAMPLING DESIGN:****CENSUS**

Total Native Households	15
Surveyed Households	15
Sampling Fraction	100.0%
Sample Household Members	42
Estimated Household Members	42.0
Estimated Native Population	86.0

HARVEST AND USE INFORMATION**Percentage of Native Households:**

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	6.7%
Hunted	0.0%	6.7%
Harvested	0.0%	6.7%
Received	0.0%	0.0%
Gave Away	0.0%	6.7%

**Estimated Community Harvest
and Take (Expanded):**

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	2.0
Total Number Struck and Lost	0.0	2.0
Total Number Taken	0.0	4.0
Number Harvested Per Capita	0.00	0.02

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Struck & Lost	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Total Take	0	0	0	0	2	0	0	2	0	0	0	0	0	4
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0
Struck & Lost	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0
Total Take	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	4.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0		2.0
Struck & Lost	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0		2.0
Total Take	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0		4.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	50.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

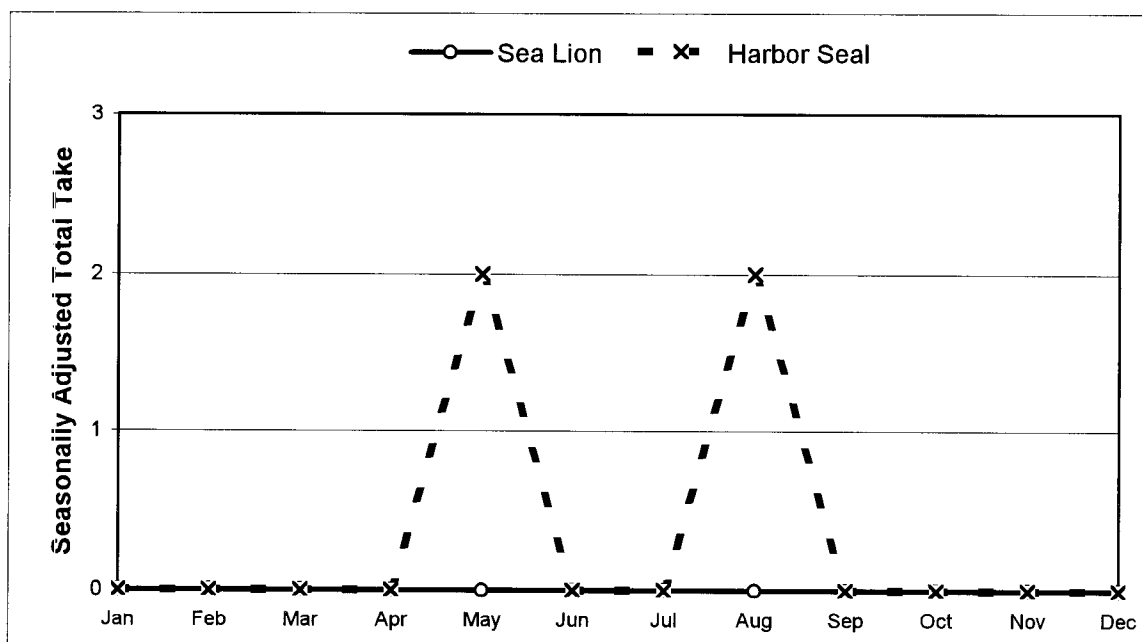
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Pilot Point Traditional Council, 2001.

Table 54. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Pilot Point, 2001

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	---	2	100.0%	2.0	100.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	2	100.0%	2.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	5.4	4.3	9.7
1993	0.0	0.0	0.0	1993	2.2	0.0	2.2
1994	0.0	0.0	0.0	1994	3.1	0.0	3.1
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0
1996	0.0	0.0	0.0	1996	0.0	0.0	0.0
1997	0.0	0.0	0.0	1997	0.0	0.0	0.0
1998	0.0	0.0	0.0	1998	0.0	0.0	0.0
2000	0.0	0.0	0.0	2000	5.3	2.1	7.4
2001	0.0	0.0	0.0	2001	2.0	2.0	4.0

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, 2001.

Table 55. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Port Heiden, 2001**SAMPLING DESIGN:
CENSUS**

Total Native Households	28
Surveyed Households	25
Sampling Fraction	89.3%
Sample Household Members	83
Estimated Household Members	93.0
Estimated Native Population	93.0

HARVEST AND USE INFORMATION**Percentage of Native Households:**

	Sea Lion	Harbor Seal
Used	0.0%	52.0%
Hunted	0.0%	16.0%
Harvested	0.0%	16.0%
Received	0.0%	40.0%
Gave Away	0.0%	16.0%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	10.1
Total Number Struck and Lost	0.0	3.4
Total Number Taken	0.0	13.4
Number Harvested Per Capita	0.00	0.11

SEA LION HARVEST BY MONTH													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	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---

HARBOR SEAL HARVEST BY MONTH													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	0	2	5	0	2	0	0	0	0	0	9
Struck & Lost	0	0	0	0	0	0	0	3	0	0	0	0	0	3
Total Take	0	0	0	0	2	5	0	5	0	0	0	0	0	12
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	2.2	5.6	0.0	2.2	0.0	0.0	0.0	0.0	0.0	10.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	3.4
Total Take	0.0	0.0	0.0	0.0	2.2	5.6	0.0	5.6	0.0	0.0	0.0	0.0	0.0	13.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	2.2	5.6	0.0	2.2	0.0	0.0	0.0	0.0		10.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0		3.4
Total Take	0.0	0.0	0.0	0.0	2.2	5.6	0.0	5.6	0.0	0.0	0.0	0.0		13.4
Total Take (%)	0.0%	0.0%	0.0%	0.0%	16.7%	41.7%	0.0%	41.7%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	2.2	7.8	7.8	13.4	13.4	13.4	13.4	13.4		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	16.7%	58.3%	58.3%	100.0%	100.0%	100.0%	100.0%	100.0%		

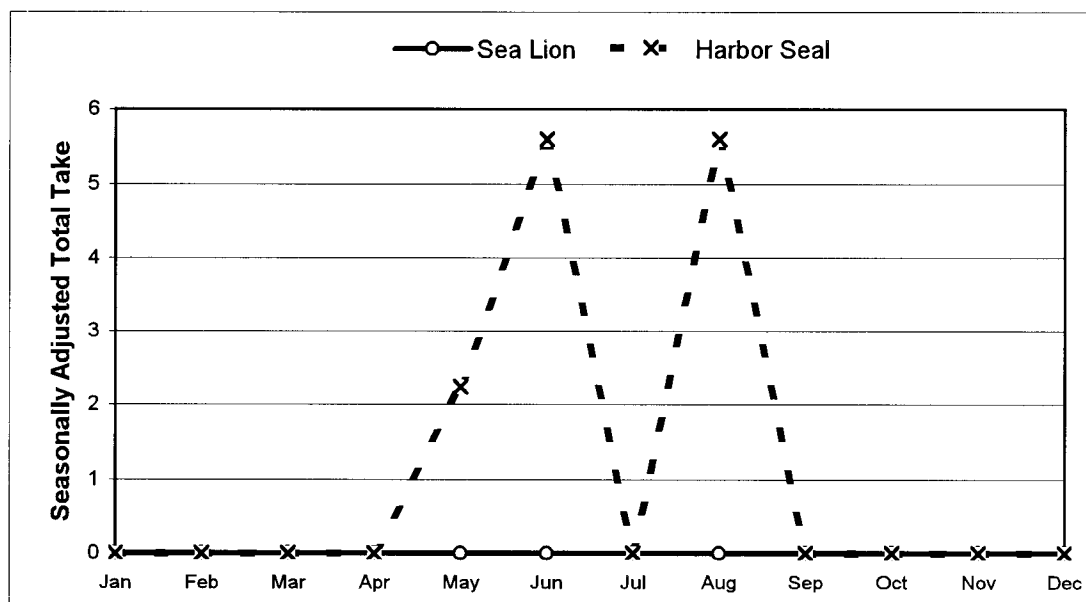
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Port Heiden Traditional Council, 2001.

Table 55. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Heiden, 2001

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	100.0%	10.1	100.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	9	100.0%	10.1	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	40.5	36.0	76.5
1993	0.0	0.0	0.0	1993	30.7	19.9	50.6
1994	0.0	0.0	0.0	1994	63.0	45.3	108.3
1995	0.0	0.0	0.0	1995	17.0	10.0	27.0
1996	0.0	0.0	0.0	1996	34.3	34.3	68.6
1997	0.0	0.0	0.0	1997	69.2	50.0	119.2
1998	0.0	0.0	0.0	1998	36.1	18.6	54.7
2000	0.0	0.0	0.0	2000	19.6	0.0	19.6
2001	0.0	0.0	0.0	2001	10.1	3.4	13.4

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, 2001.

Table 56. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: South Naknek, 2001**SAMPLING DESIGN:****CENSUS**

Total Native Households	30
Surveyed Households	30
Sampling Fraction	100.0%
Sample Household Members	85
Estimated Household Members	85.0
Estimated Native Population	115.0

HARVEST AND USE INFORMATION**Percentage of Native Households:**

	Sea Lion	Harbor Seal
Used	0.0%	16.7%
Hunted	0.0%	10.0%
Harvested	0.0%	10.0%
Received	0.0%	10.0%
Gave Away	0.0%	10.0%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	11.0
Total Number Struck and Lost	0.0	3.0
Total Number Taken	0.0	14.0
Number Harvested Per Capita	0.00	0.10

SEA LION HARVEST BY MONTH														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	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	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	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---			---

HARBOR SEAL HARVEST BY MONTH														Unknown 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	1	4	0	0	0	6	0	0	0	0	0	11
Struck & Lost	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Total Take	0	0	0	1	7	0	0	0	6	0	0	0	0	0	14
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	1.0	4.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	11.0
Struck & Lost	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
Total Take	0.0	0.0	0.0	1.0	7.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	14.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	1.0	4.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0			11.0
Struck & Lost	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			3.0
Total Take	0.0	0.0	0.0	1.0	7.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0			14.0
Total Take (%)	0.0%	0.0%	0.0%	7.1%	50.0%	0.0%	0.0%	0.0%	42.9%	0.0%	0.0%	0.0%			100.0%
Cum. Take	0.0	0.0	0.0	1.0	8.0	8.0	8.0	8.0	14.0	14.0	14.0	14.0			
Cum. Take (%)	0.0%	0.0%	0.0%	7.1%	57.1%	57.1%	57.1%	57.1%	100.0%	100.0%	100.0%	100.0%			

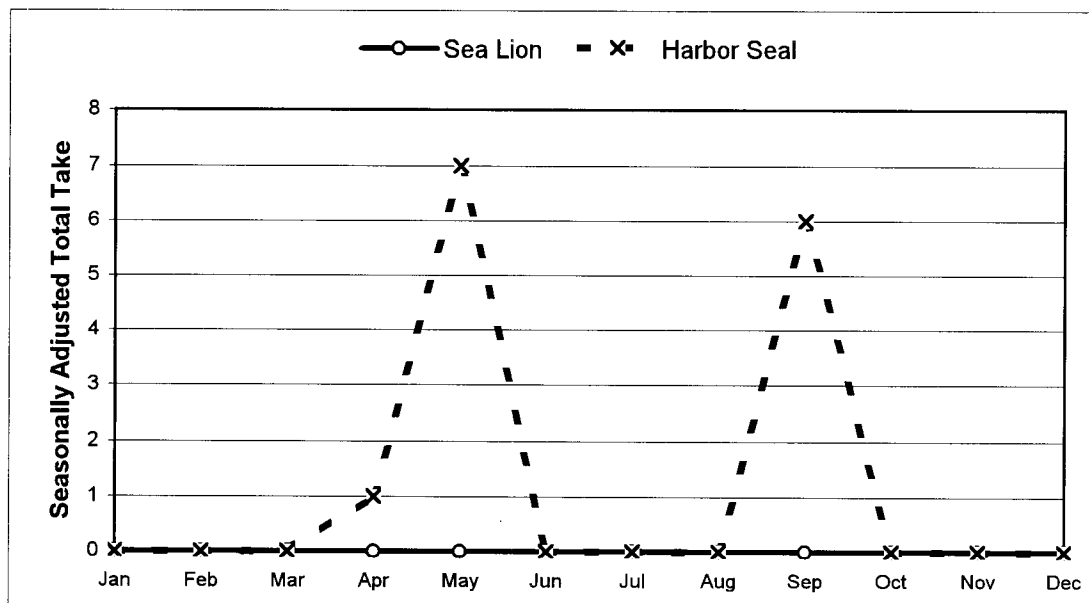
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the South Naknek Traditional Council, 2001.

Table 56. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: South Naknek, 2001

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	18.2%	2.0	18.2%
Adult Female	0	---	0.0	---	2	18.2%	2.0	18.2%
Adult Unknown Sex	0	---	0.0	---	1	9.1%	1.0	9.1%
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	18.2%	2.0	18.2%
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	---	2	18.2%	2.0	18.2%
Female Unknown Age	0	---	0.0	---	2	18.2%	2.0	18.2%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	11	100.0%	11.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	2.3	6.9	9.2
1993	0.0	0.0	0.0	1993	6.4	18.0	24.4
1994	0.0	0.0	0.0	1994	4.4	1.1	5.5
1995	0.0	0.0	0.0	1995	2.1	0.0	2.1
1996	0.0	0.0	0.0	1996	1.0	0.0	1.0
1997	0.0	0.0	0.0	1997	2.5	9.8	12.3
1998	0.0	0.0	0.0	1998	5.2	7.9	13.1
2000	0.0	0.0	0.0	2000	4.1	2.7	6.8
2001	0.0	0.0	0.0	2001	11.0	3.0	14.0

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, 2001.

Table 57. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Aleknagik, 2001

SAMPLING DESIGN:		Total
CENSUS	Total Native Households	44
	Surveyed Households	38
	Sampling Fraction	86.4%
	Sample Household Members	144
	Estimated Household Members	166.7
	Estimated Native Population	187.0

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 and Spotted Seal
Used	0.0%	13.2%	Total Number Harvested	0.0	0.0
Hunted	0.0%	7.9%	Total Number Struck and Lost	0.0	1.2
Harvested	0.0%	0.0%	Total Number Taken	0.0	1.2
Received	0.0%	13.2%			
Gave Away	0.0%	0.0%	Number Harvested Per Capita	0.00	0.00

SEA LION HARVEST BY MONTH

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

HARBOR SEAL 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	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Total Take	0	0	0	0	0	0	1	0	0	0	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0		1.2
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0		1.2
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%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2		
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%		

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, 2001.

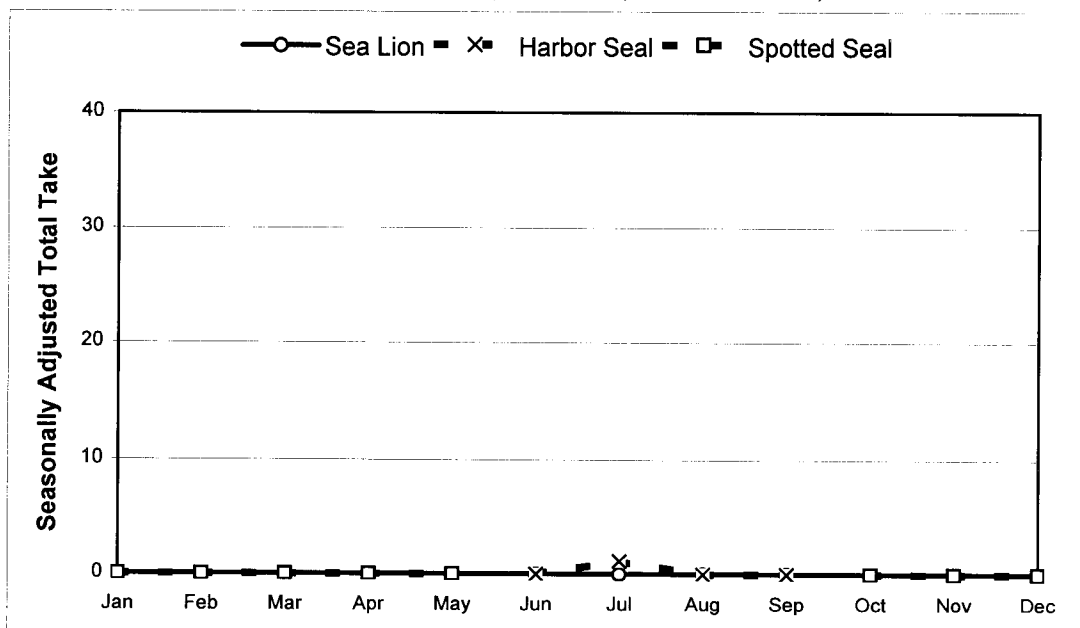
Table 57. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Aleknagik, 2001

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal				Spotted Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Adult Female	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Juvenile Male	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Juvenile Female	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Juvenile Unknown Sex	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Pup Male	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Pup Female	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Pup Unknown Sex	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Male Unknown Age	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Female Unknown Age	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Unknown Sex and Age	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---
Total	0	---	0.0	---	0	---	0.0	---	0	---	0.0	---

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	0.0	3.6	3.6	1992	28.6	5.5	34.1
1993	0.0	0.0	0.0	1993	0.0	0.0	0.0	1993	4.8	0.0	4.8
1994	0.0	0.0	0.0	1994	0.0	3.3	3.3	1994	21.5	0.0	21.5
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0	1995	11.8	13.0	24.9
1996	0.0	0.0	0.0	1996	0.0	0.0	0.0	1996	7.1	0.0	7.1
1997	0.0	0.0	0.0	1997	1.2	0.0	1.2	1997	10.8	0.0	10.8
1998	0.0	0.0	0.0	1998	3.1	0.0	3.1	1998	5.2	0.0	5.2
2000	0.0	0.0	0.0	2000	2.5	0.0	2.5	2000	6.1	2.5	8.6
2001	0.0	0.0	0.0	2001	0.0	1.2	1.2	2001	0.0	0.0	0.0

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, 2001.

Table 58. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Clark's Point, 2001**SAMPLING DESIGN:****CENSUS**

	Total
Total Native Households	23
Surveyed Households	22
Sampling Fraction	95.7%
Sample Household Members	60
Estimated Household Members	62.7
Estimated Native Population	69.0

HARVEST AND USE INFORMATION**Percentage of Native Households:**

	Sea Lion	Harbor Seal and Spotted Seal
Used	0.0%	95.5%
Hunted	0.0%	54.5%
Harvested	0.0%	40.9%
Received	0.0%	86.4%
Gave Away	0.0%	63.6%

**Estimated Community Harvest
and Take (Expanded):**

	Sea Lion	Harbor Seal	Spotted Seal
Total Number Harvested	0.0	0.0	28.2
Total Number Struck and Lost	0.0	0.0	11.5
Total Number Taken	0.0	0.0	39.7
Number Harvested Per Capita	0.00	0.00	0.41

SEA LION HARVEST BY MONTH

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

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH

	Spotted Seal					Harbor Seal					Spotted Seal			Unknown 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	6	21	0	0	0	0	0	0	0	0	0	0	27
Struck & Lost	0	0	3	8	0	0	0	0	0	0	0	0	0	0	11
Total Take	0	0	9	29	0	0	0	0	0	0	0	0	0	0	38
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	6.3	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.2
Struck & Lost	0.0	0.0	3.1	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5
Total Take	0.0	0.0	9.4	30.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	6.3	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			28.2
Struck & Lost	0.0	0.0	3.1	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			11.5
Total Take	0.0	0.0	9.4	30.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			39.7
Total Take (%)	0.0%	0.0%	23.7%	76.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			100.0%
Cum. Take	0.0	0.0	9.4	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7			
Cum. Take (%)	0.0%	0.0%	23.7%	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, 2001.

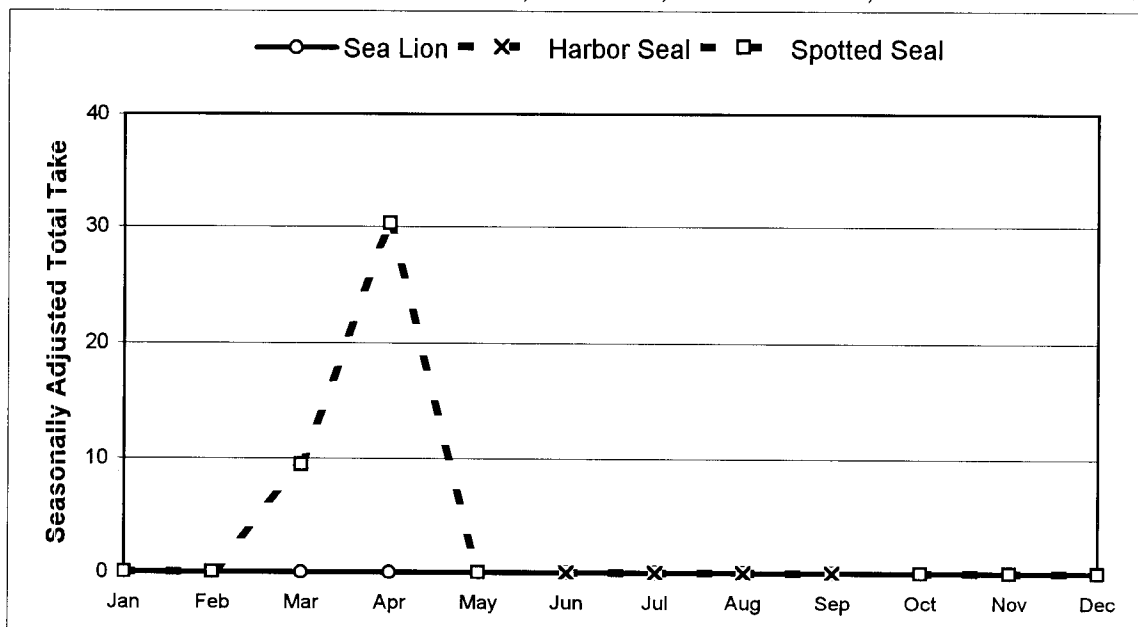
Table 58. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Clark's Point, 2001

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	---	3	11.1%	3.1	11.1%
Adult Female	0	---	0.0	---	0	---	0.0	---	3	11.1%	3.1	11.1%
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---	1	3.7%	1.0	3.7%
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	---	3	11.1%	3.1	11.1%
Male Unknown Age	0	---	0.0	---	0	---	0.0	---	3	11.1%	3.1	11.1%
Female Unknown Age	0	---	0.0	---	0	---	0.0	---	2	7.4%	2.1	7.4%
Unknown Sex and Age	0	---	0.0	---	0	---	0.0	---	12	44.4%	12.5	44.4%
Total	0	---	0.0	---	0	---	0.0	---	27	100.0%	28.2	100.0%

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	0.0	0.0	0.0	1992	10.6	8.5	19.1
1993	0.0	0.0	0.0	1993	0.0	0.0	0.0	1993	2.0	0.0	2.0
1994	0.0	0.0	0.0	1994	0.0	0.0	0.0	1994	2.0	0.0	2.0
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0	1995	10.0	5.0	15.0
1996	0.0	0.0	0.0	1996	0.0	0.0	0.0	1996	17.1	3.8	20.9
1997	0.0	0.0	0.0	1997	1.3	0.0	1.3	1997	3.8	1.3	5.0
1998	0.0	0.0	0.0	1998	1.3	0.0	1.3	1998	3.8	1.3	5.0
2000	0.0	0.0	0.0	2000	0.0	0.0	0.0	2000	22.4	1.4	23.8
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0	2001	28.2	11.5	39.7

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, 2001.

Table 59. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Dillingham, 2001

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>				
	Total Native Households	23	414	437
	Surveyed Households	19	41	60
	Sampling Fraction	82.6%	9.9%	13.7%
	Sample Household Members	76	129	205
	Estimated Household Members	92.0	1304.1	1396.1
	Estimated Native Population	---	---	1503.0

HARVEST AND USE INFORMATION*Percentage of Native Households:*

	<u>Sea Lion</u>	<u>Harbor Seal and Spotted Seal</u>
Used	0.3%	82.4%
Hunted	0.0%	1.4%
Harvested	0.0%	0.8%
Received	0.3%	82.4%
Gave Away	0.0%	58.2%

*Estimated Community Harvest
and Take (Expanded):*

	<u>Sea Lion</u>	<u>Harbor Seal</u>	<u>Spotted Seal</u>
Total Number Harvested	0.0	0.0	6.1
Total Number Struck and Lost	0.0	0.0	3.6
Total Number Taken	0.0	0.0	9.7
Number Harvested Per Capita	0.00	0.00	0.00

SEA LION HARVEST BY MONTH

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

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH

	<u>Spotted Seal</u>					<u>Harbor Seal</u>					<u>Spotted Seal</u>			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	0	5	0	0	0	0	0	0	0	0	0	5
Struck & Lost	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Total Take	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
Struck & Lost	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Total Take	0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0			6.1
Struck & Lost	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0			3.6
Total Take	0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0			9.7
Total Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			100.0%
Cum. Take	0.0	0.0	0.0	0.0	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7			
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%			

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Dillingham Traditional Council, 2001.

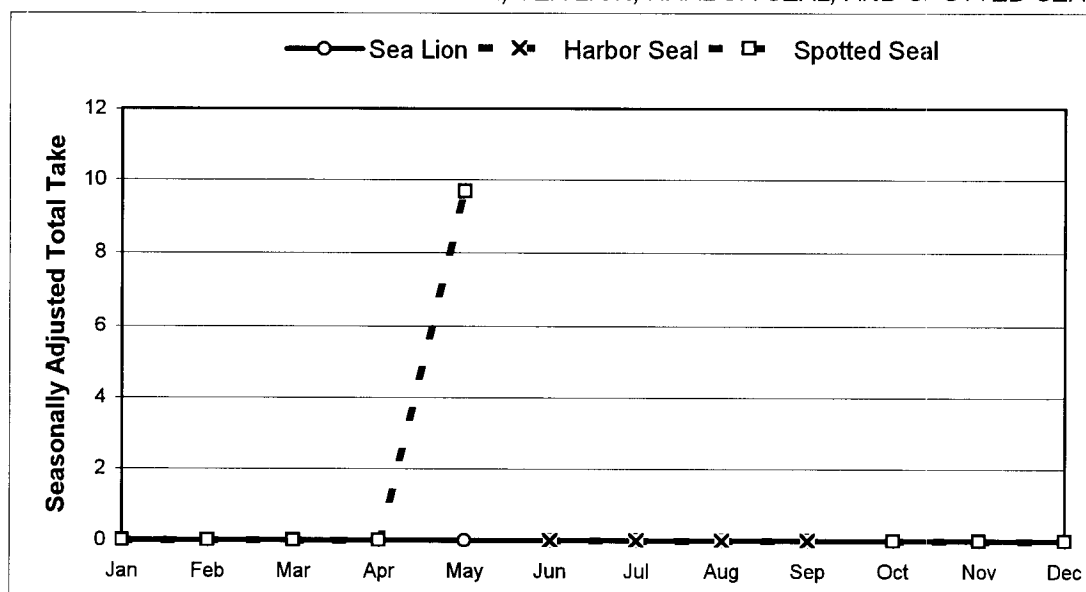
Table 59. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Dillingham, 2001

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	---	2	40.0%	2.4	40.0%
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	---	1	20.0%	1.2	20.0%
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	---	2	40.0%	2.4	40.0%
Total	0	---	0.0	---	0	---	0.0	---	5	100.0%	6.1	100.0%

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	29.2	3.8	32.9	1992	49.6	3.8	53.3
1993	0.0	0.0	0.0	1993	18.0	4.2	22.2	1993	26.1	0.0	26.1
1994	0.0	0.0	0.0	1994	16.2	0.0	16.2	1994	35.2	3.0	38.2
1995	0.0	0.0	0.0	1995	13.3	0.0	13.3	1995	7.5	7.5	15.0
1996	0.0	0.0	0.0	1996	0.0	0.0	0.0	1996	40.6	1.0	41.6
1997	0.0	0.0	0.0	1997	1.2	0.0	1.2	1997	18.0	0.0	18.0
1998	0.0	0.0	0.0	1998	8.5	0.0	8.5	1998	12.2	1.2	13.4
2000	0.0	0.0	0.0	2000	0.0	0.0	0.0	2000	11.9	3.6	15.5
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0	2001	6.1	3.6	9.7

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Dillingham Traditional Council, 2001.

Table 60. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Manokotak, 2001

SAMPLING DESIGN:		<u>Active</u>	<u>Other</u>	<u>Total</u>
TWO-STRATA				
	Total Native Households	33	43	76
	Surveyed Households	28	31	59
	Sampling Fraction	84.8%	72.1%	77.6%
	Sample Household Members	136	138	274
	Estimated Household Members	160.3	191.4	351.7
	Estimated Native Population	---	---	378.0

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%	42.8%				Total Number Harvested	0.0	3.5	8.3					
Hunted	0.0%	9.3%				Total Number Struck and Lost	0.0	0.0	1.2					
Harvested	0.0%	9.3%				Total Number Taken	0.0	3.5	9.4					
Received	0.0%	33.5%												
Gave Away	0.0%	9.3%				Number Harvested Per Capita	0.00	0.01	0.02					

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

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH														
	<u>Spotted Seal</u>					<u>Harbor Seal</u>					<u>Spotted Seal</u>			
	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	5	0	2	2	0	0	1	0	0	0	0	10
Struck & Lost	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Total Take	0	0	5	0	3	2	0	0	1	0	0	0	0	11
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	5.9	0.0	2.4	2.4	0.0	0.0	1.2	0.0	0.0	0.0	0.0	11.8
Struck & Lost	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Total Take	0.0	0.0	5.9	0.0	3.5	2.4	0.0	0.0	1.2	0.0	0.0	0.0	0.0	13.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	5.9	0.0	2.4	2.4	0.0	0.0	1.2	0.0	0.0	0.0		11.8
Struck & Lost	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.2
Total Take	0.0	0.0	5.9	0.0	3.5	2.4	0.0	0.0	1.2	0.0	0.0	0.0		13.0
Total Take (%)	0.0%	0.0%	45.5%	0.0%	27.3%	18.2%	0.0%	0.0%	9.1%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	5.9	5.9	9.4	11.8	11.8	11.8	13.0	13.0	13.0	13.0		
Cum. Take (%)	0.0%	0.0%	45.5%	45.5%	72.7%	90.9%	90.9%	90.9%	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, 2001.

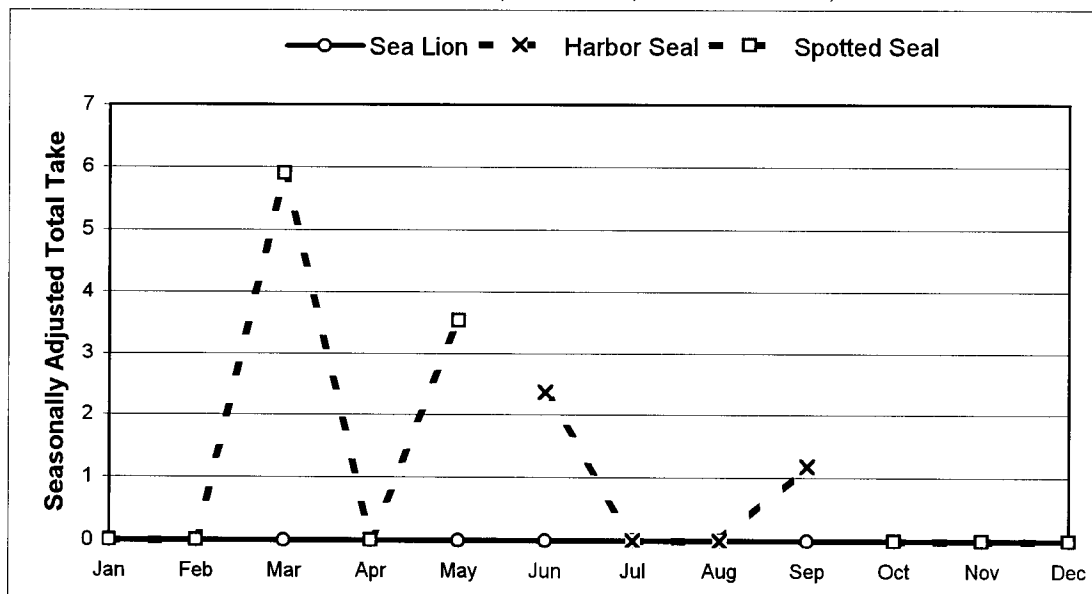
Table 60. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Manokotak, 2001

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal				Spotted Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	1	33.3%	1.2	33.3%	3	42.9%	3.5	42.9%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%	1	14.3%	1.2	14.3%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%	1	14.3%	1.2	14.3%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%	1	14.3%	1.2	14.3%
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%	1	14.3%	1.2	14.3%
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	---	2	66.7%	2.4	66.7%	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	3	100.0%	3.5	100.0%	7	100.0%	8.3	100.0%

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	3.9	0.0	3.9	1992	4.9	3.8	8.7	1992	25.1	1.0	26.1
1993	0.0	0.0	0.0	1993	3.2	0.0	3.2	1993	7.4	0.0	7.4
1994	0.0	0.0	0.0	1994	0.0	0.0	0.0	1994	13.7	0.0	13.7
1995	0.0	0.0	0.0	1995	9.3	2.4	11.7	1995	22.9	3.6	26.5
1996	0.0	0.0	0.0	1996	2.4	3.6	6.0	1996	31.5	8.4	39.9
1997	0.0	0.0	0.0	1997	0.0	0.0	0.0	1997	19.7	7.2	26.9
1998	0.0	0.0	0.0	1998	4.0	0.0	4.0	1998	4.2	1.0	5.2
2000	0.0	0.0	0.0	2000	1.2	0.0	1.2	2000	23.0	4.7	27.7
2001	0.0	0.0	0.0	2001	3.5	0.0	3.5	2001	8.3	1.2	9.4

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, 2001.

Table 61. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Togiak, 2001

SAMPLING DESIGN:	Total
CHAIN REFERRAL	84
Total Referred Households	75
Surveyed Households	89.3%
Sampling Fraction	347
Sample Household Members	388.6
Estimated Household Members	750.0
Estimated Native Population	

HARVEST AND USE INFORMATION*Percentage of Native Households:*

	Sea Lion	Harbor Seal and Spotted Seal
Used	0.0%	42.7%
Hunted	0.0%	34.7%
Harvested	0.0%	33.3%
Received	0.0%	9.3%
Gave Away	0.0%	32.0%

*Estimated Community Harvest
and Take (Expanded):*

	Sea Lion	Harbor Seal	Spotted Seal
Total Number Harvested	0.0	5.3	60.8
Total Number Struck and Lost	0.0	0.0	4.5
Total Number Taken	0.0	5.3	65.3
Number Harvested Per Capita	0.00	0.01	0.08

SEA LION HARVEST BY MONTH

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

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH

	Spotted Seal					Harbor Seal					Spotted Seal					Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)																	
Harvest	1	0	1	8	2	0	1	3	0	4	22	8	9				59
Struck & Lost	0	0	0	0	0	0	0	0	0	0	3	0	1				4
Total Take	1	0	1	8	2	0	1	3	0	4	25	8	10				63
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																	
Harvest	1.1	0.0	1.1	9.0	2.2	0.0	1.1	3.4	0.0	4.5	24.6	9.0	10.1				66.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	1.1				4.5
Total Take	1.1	0.0	1.1	9.0	2.2	0.0	1.1	3.4	0.0	4.5	28.0	9.0	11.2				70.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)																	
Harvest	1.3	0.0	1.3	10.6	2.6	0.0	1.3	4.0	0.0	5.3	29.1	10.6					66.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0					4.5
Total Take	1.3	0.0	1.3	10.6	2.6	0.0	1.3	4.0	0.0	5.3	33.6	10.6					70.6
Total Take (%)	1.9%	0.0%	1.9%	15.0%	3.7%	0.0%	1.9%	5.6%	0.0%	7.5%	47.6%	15.0%					100.0%
Cum. Take	1.3	1.3	2.6	13.2	15.9	15.9	17.2	21.1	21.1	26.4	60.0	70.6					
Cum. Take (%)	1.9%	1.9%	3.7%	18.7%	22.5%	22.5%	24.3%	30.0%	30.0%	37.5%	85.0%	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, 2001.

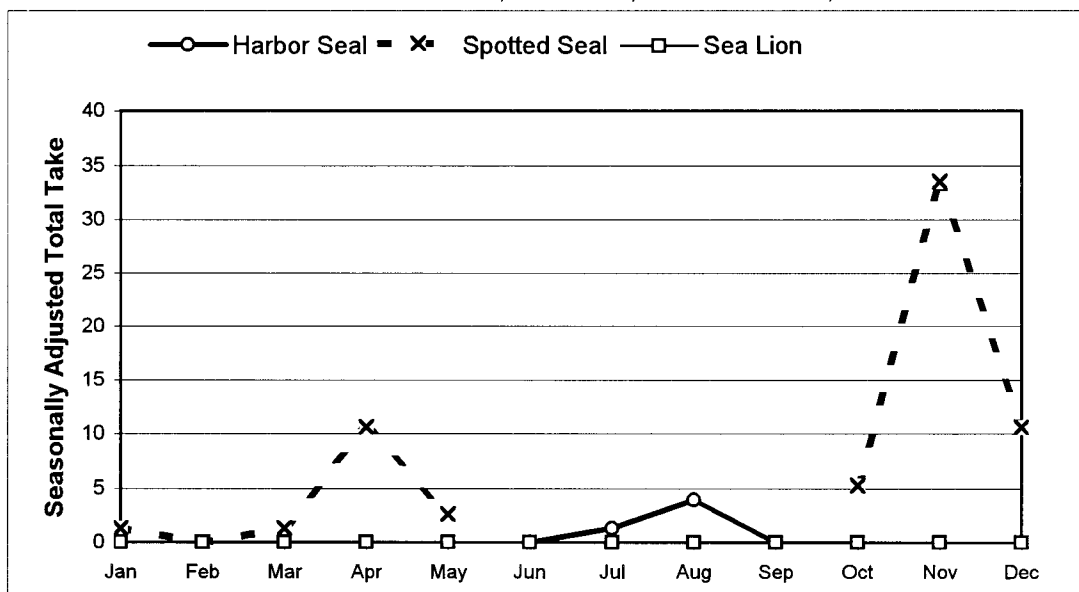
Table 61. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Togiak, 2001

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal				Spotted Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	1	25.0%	1.1	22.6%	4	8.7%	4.5	7.3%
Adult Female	0	---	0.0	---	2	50.0%	2.2	45.2%	7	15.2%	7.8	12.8%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%	8	17.4%	9.0	14.7%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%	6	13.0%	6.7	11.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%	1	2.2%	1.1	1.8%
Juvenile Unknown Sex	0	---	0.0	---	1	25.0%	1.6	32.1%	18	39.1%	28.6	46.9%
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%	2	4.3%	3.4	5.5%
Total	0	---	0.0	---	4	100.0%	5.0	100.0%	46	100.0%	61.1	100.0%

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

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



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

SEA LION				HARBOR SEAL				SPOTTED 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	304.0
1993	3.3	3.3	6.5	1993	24.9	15.8	40.7	1993	174.7	49.1	223.8
1994	1.2	0.0	1.2	1994	0.0	0.0	0.0	1994	154.2	39.9	194.1
1995	0.0	0.0	0.0	1995	3.3	0.0	3.3	1995	111.5	4.4	115.9
1996	0.0	0.0	0.0	1996	3.9	0.0	3.9	1996	101.9	7.8	109.7
1997	3.6	0.0	3.6	1997	6.7	0.0	6.7	1997	79.2	7.1	86.4
1998	0.0	0.0	0.0	1998	14.1	1.4	15.5	1998	105.0	15.3	120.4
2000	0.0	0.0	0.0	2000	5.1	1.1	6.3	2000	147.0	26.7	173.6
2001	0.0	0.0	0.0	2001	5.3	0.0	5.3	2001	60.8	4.5	65.3

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, 2001.

Table 62. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Twin Hills, 2001

SAMPLING DESIGN:		Total
CENSUS		
Total Referred Households		19
Surveyed Households		15
Sampling Fraction		78.9%
Sample Household Members		51
Estimated Household Members		64.6
Estimated Native Population		65.0

HARVEST AND USE INFORMATION*Percentage of Sample Households:**Estimated Community Harvest and Take (Expanded):*

	Sea Lion	Harbor Seal and Spotted Seal		Sea Lion	Harbor Seal	Spotted Seal
Used	0.0%	100.0%	Total Number Harvested	0.0	0.0	2.5
Hunted	0.0%	20.0%	Total Number Struck and Lost	0.0	0.0	0.0
Harvested	0.0%	6.7%	Total Number Taken	0.0	0.0	2.5
Received	0.0%	100.0%				
Gave Away	0.0%	60.0%	Number Harvested Per Capita	0.00	0.00	0.04

SEA LION HARVEST BY MONTH

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

HARBOR SEAL 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	0	2	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	0
Total Take	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	2.5	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	0.0
Total Take	0.0	0.0	0.0	0.0	2.5	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	0.0	0.0	0.0	0.0	2.5	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	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0			2.5
Total Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			100.0%
Cum. Take	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5			
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%			

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Twin Hills Native Corporation, 2001.

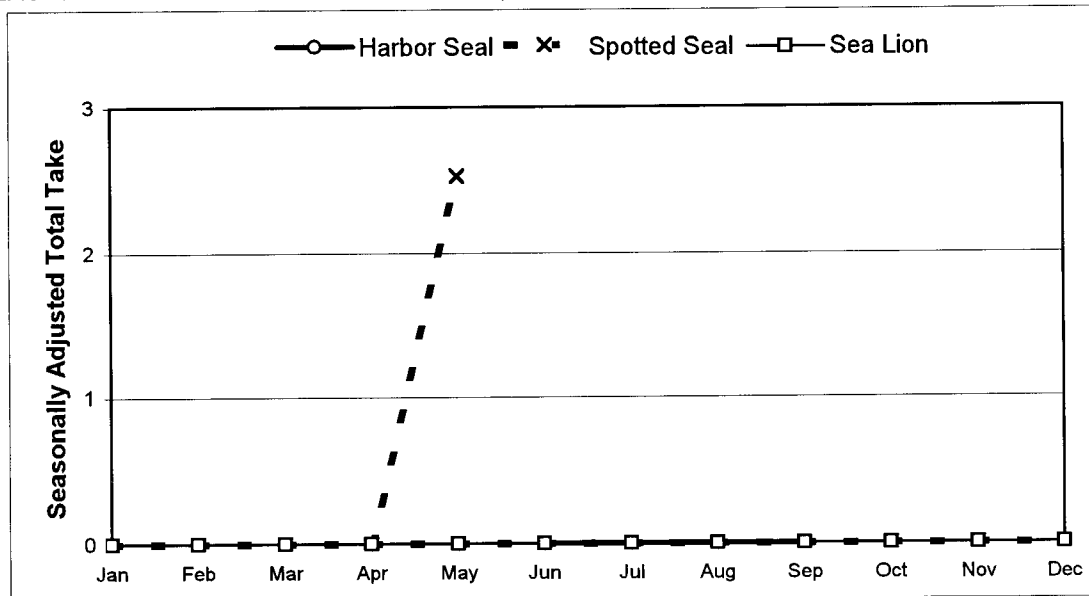
Table 62. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Twin Hills, 2001

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal				Spotted Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Female	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---	1	50.0%	1.3	50.0%
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	---	1	50.0%	1.3	50.0%
Total	0	---	0.0	---	0	---	0.0	---	2	100.0%	2.5	100.0%

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	---	---	---	1992	---	---	---	1992	---	---	---
1993	---	---	---	1993	---	---	---	1993	---	---	---
1994	---	---	---	1994	---	---	---	1994	---	---	---
1995	---	---	---	1995	---	---	---	1995	---	---	---
1996	0.0	0.0	0.0	1996	23.3	6.5	29.8	1996	3.9	3.9	7.8
1997	0.0	0.0	0.0	1997	8.4	2.1	10.5	1997	2.1	1.1	3.2
1998	0.0	0.0	0.0	1998	2.2	2.2	4.4	1998	15.5	6.6	22.1
2000	0.0	0.0	0.0	2000	1.6	0.0	1.6	2000	6.6	1.6	8.2
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0	2001	2.5	0.0	2.5

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Twin Hills Native Corporation, 2001.