

**The Subsistence Harvest of  
Harbor Seal and Sea Lion  
by Alaska Natives in 1997**

**Technical Paper No. 246**

**Principal Investigator    Project Coordinator**  
Robert J. Wolfe    Craig Mishler

**Data Analysis** Cheryl L. Scott, Louis Brown, Jessie Mallery, Desiree Walton, Charles J. Utermohle **Southeast Region Research** Robert F. Schroeder, Matthew A. Kookesh, Nga Nguyen, Amy Paige, Michael F. Turek **Southcentral Region Research** James A. Fall, Rita Miraglia, William Simeone, Ronald T. Stanek **Southwest Region Research** Molly Chythlook, Philippa A. Kenner, Lisa B. Hutchinson-Scarborough, Vicki Vanek

**Final Report for Year Six  
Subsistence Study and Monitor System (No. 50ABNF400080)  
Prepared for the National Marine Fisheries Service**

**Alaska Department of Fish and Game  
Division of Subsistence  
Juneau, Alaska  
August 1998**

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## ABSTRACT

This report describes the subsistence takes of harbor seal (*Phoca vitulina*) and Steller sea lion (*Eumetopias jubatus*) by Alaska Natives in 1997, including quantity, seasons, geographic distribution, and age and sex of the harvest. Information is summarized at the state, region, and community levels, and is compared with takes during 1992-96. The research was conducted by the Division of Subsistence, Alaska Department of Fish and Game under contract with the National Oceanic and Atmospheric Administration and the National Marine Fisheries Service. Information derives from systematic interviews with hunters and users of marine mammals in 1,649 households in 62 coastal communities within the geographic ranges of the two species. Local researchers conducted most of the household interviews as part of local and regional research networks. The project received generous support from leaders of a number of Native governments, regional, and statewide associations.

During 1997, the estimated subsistence take of harbor seal by Alaska Natives was 2,546 seals, with a 95 percent confidence range of between 2,069 to 3,309 seals. Of the take, 13.8 percent (351 seals) were stuck and lost and 86.2 percent (2,195 seals) were harvested. The 1997 takes of harbor seals were derived from the following stocks: Southeast Alaska stock (1,567 seals), Gulf of Alaska stock (784 seals), and Bering Sea stock (195 seals). Harbor seals were taken in 55 of 62 surveyed communities. The 1997 take of harbor seals was in the lowest reported for the six survey years -- 2,854 (1992), 2,736 (1993), 2,621 (1994), 2,742 (1995), and 2,741 (1996).

During 1997, the estimated subsistence take of sea lions by Alaska Natives was 164 sea lions, with a 95 percent confidence range of between 129 to 227 sea lions. Of the take, 10.9 percent (18 sea lions) were struck and lost and 89.1 percent (146 sea lions) were harvested. Sea lions were taken in 16 of 62 surveyed communities. The 1996 take of sea lions was the lowest recorded for the six survey years -- 549 (1992), 487 (1993), 416 (1994), 339 (1995), and 186 (1996).

For harbor seals, hunters reported taking males over females by about 2.0 to 1, and adults (81 percent) over juveniles (17 percent) or pups (2 percent). For sea lions, hunters reported taking males over females by about 3.6 to 1, and juveniles (57 percent), adults (42 percent), and pups (1 percent). The substantial declines in sea lion takes during the study period (67.4 percent) are attributed to decreases in the number of households hunting sea lions, which may be linked to local sea lion scarcities.

## ACKNOWLEDGEMENTS

This project would not have been possible without tremendous local support in every community where we conducted the survey. We wish to thank each tribal council, city council, and all of the regional Native organizations who 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 fifty-seven 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 sixth year:

Mitchell Simeonoff, Akhiok  
Anthony Shellikoff, Akutan  
Virginia Andrew, Aleknagik  
Katrina Gregoire, Anchorage, Kenai, and Homer  
Harriet Silva, Angoon  
Ray Golodoff, Atka  
Polly Aleck, Chignik Bay  
Rhonda Gregorio, Chignik Lagoon  
Mitchell Lind, Chignik Lake  
Thomas Gardiner, Clark's Point  
Bud Janson, Jr., Cordova  
Fred Hamilton, Craig  
Mark Cline, Dillingham  
Josephine Williams, Egegik  
Terry Shellikoff, False Pass  
Jessie Grant, Haines  
Phyllis Snively, Hoonah  
Karen Kalmakoff, Ivanof Bay  
Leslie Isturis, Juneau  
Agnes D'Cafango, Juneau  
Richard Austin, Kake  
Alicia Lynn Reft, Karluk  
Norman Natkong, Ketchikan and Saxman  
Simeon Kuzakin, King Cove  
Charles Kelly, King Salmon and Naknek  
Marvin George, Klawock  
Donald Hotch, Klukwan

Janice Martin, Larsen Bay  
Alex Tallekpalek, Levelock  
Jonathan Pat, Manokotak  
Alice Green, Nanwalek  
Agrafina Kerr, Nikolski  
Bernadine Christiansen, Old Harbor  
Kenneth Anderson, Ouzinkie  
Marie Mork, Pelican  
Steve Phillips, Perryville  
Andrew Shangin, Perryville  
Jonas Hallingstad, Petersburg  
Nikki Shanigan, Pilot Point  
Mary Malchoff, Port Graham  
Gerda Christensen, Port Heiden  
Grace Mercurief, St. George  
Dion Zacharof, Saint Paul  
Lila Carlson, Sand Point  
Lillian Elvsaas, Seldovia  
Vincent Komok, Seward  
Vicki Bartels, Sitka  
Eric Hodgdon, South Naknek  
Kelly Kompkoff, Tatitlek  
Antone Togiak, Togiak  
David Foster, Twin Hills  
Larry Dirks Jr., Unalaska  
Sandra Churchill, Wrangell  
Raymond Sensmeier, Yakutat

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## INTRODUCTION

This report describes the subsistence takes of harbor seal (*Phoca vitulina*) and Steller sea lion (*Eumetopias jubatus*) by Alaska Natives in 1997. The report covers the sixth year documenting subsistence takes of harbor seal and sea lion in Alaska. Findings for the first five study years were reported in Wolfe and Mishler (1993, 1994, 1995, 1996, 1997). The research was conducted by the Division of Subsistence of the Alaska Department of Fish and Game under contract with the National Oceanic and Atmospheric Administration and the National Marine Fisheries Service. The research has been conducted in cooperation with tribal governments and organizations representing Alaska Native marine mammal hunters, including the Alaska Native Harbor Seal Commission and the Indigenous People's Council for Marine Mammals.

The report provides information on the subsistence takes of harbor seal and sea lion during 1997, 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 seal and sea lion in Alaska (Figs. 2 and 3, from Burns, Frost, and Lowry 1985). The use of harbor seal and sea lion by Alaska Natives for food and raw materials has a long tradition in this part of Alaska, since before historic contact through to the present. The Alaska Native groups using harbor seal include the Aleut of the Aleutian Islands, the Alutiiq and Eyak of the Pacific Gulf coast, the Tlingit, Haida, and Tsimshian of the southeast archipelago, and the Yup'ik of southwest Alaska; more occasional use of harbor seal 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 lion. Sea lion are used more occasionally by Tlingit, Haida, Tsimshian, and Yup'ik groups. Subsistence products derived from harbor seal and sea lion by Alaska Natives include oil, meat, and skins, as described in Wolfe and Mishler (1993).

The report is organized in several sections. The Methodology section describes the methods used to collect information. Two sections (The Subsistence Take of Harbor Seal in 1997 and The Subsistence Take of Sea Lion in 1997) present information on the statewide takes of harbor seal and sea lion, summarized by community and region. In the Discussion section are interpretations of the 1997 survey year, including summaries of the six-year study period. Appendix A contains a copy of the survey instrument used in household interviews with marine mammal hunters. Appendix B contains regional summaries of the subsistence takes of harbor seal and seal lion. Appendix C contains materials on the subsistence takes of harbor seal and sea lion by community.

## METHODOLOGY

Information on the subsistence takes of harbor seal and sea lion in 1997 was collected through interviews with persons in 1,649 Alaska Native households in 62 coastal communities (Table 2). Respondents were asked to recall information about their household's use of these marine mammals during the previous year. The survey instrument administered in household interviews was similar to one used 1992-1996, 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 number of sea lions and harbor seals taken by household members during each month over the past



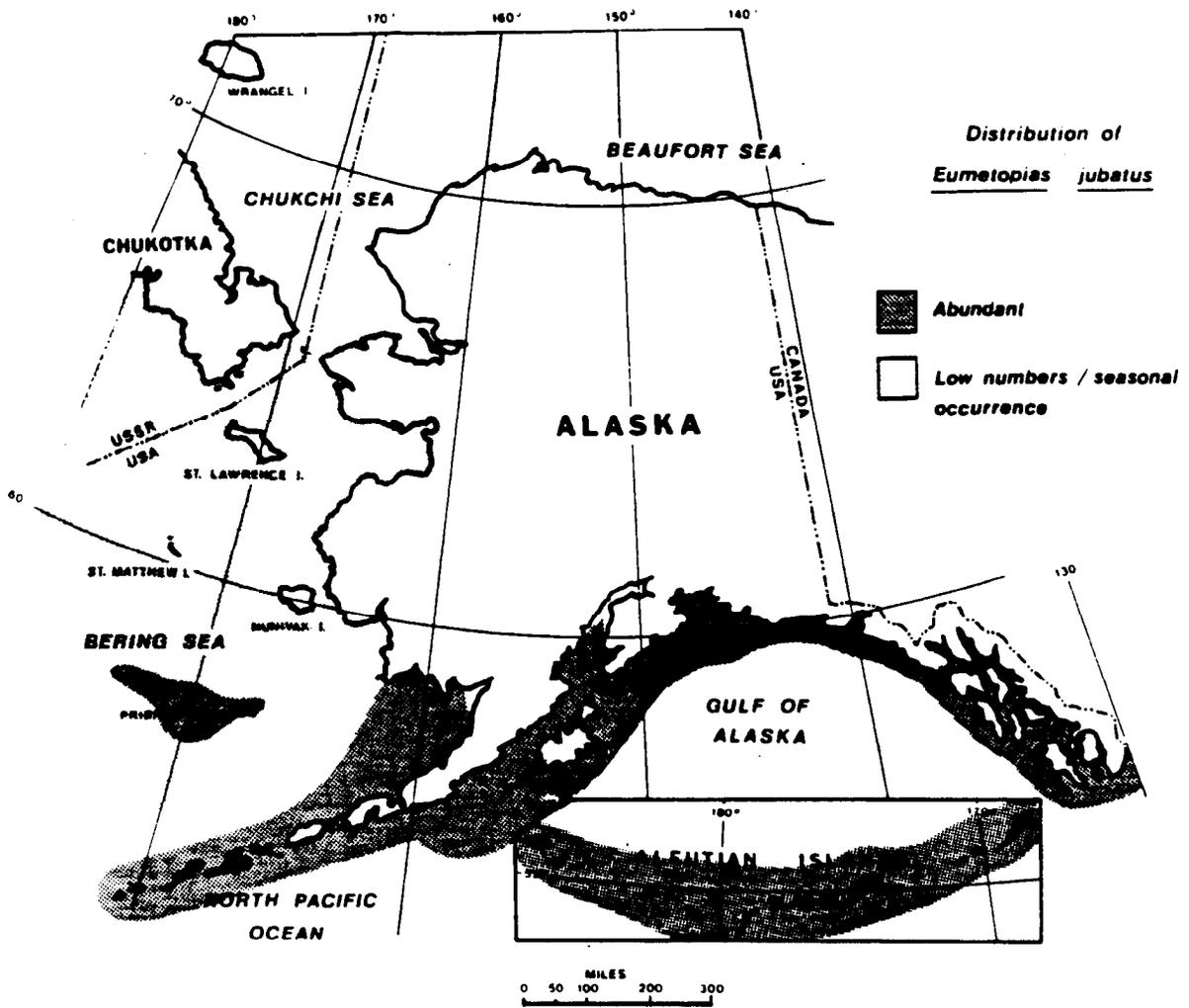


Fig. 2. General distribution of sea lion in Alaska. (Source: Burns, Frost, and Lowry 1985)

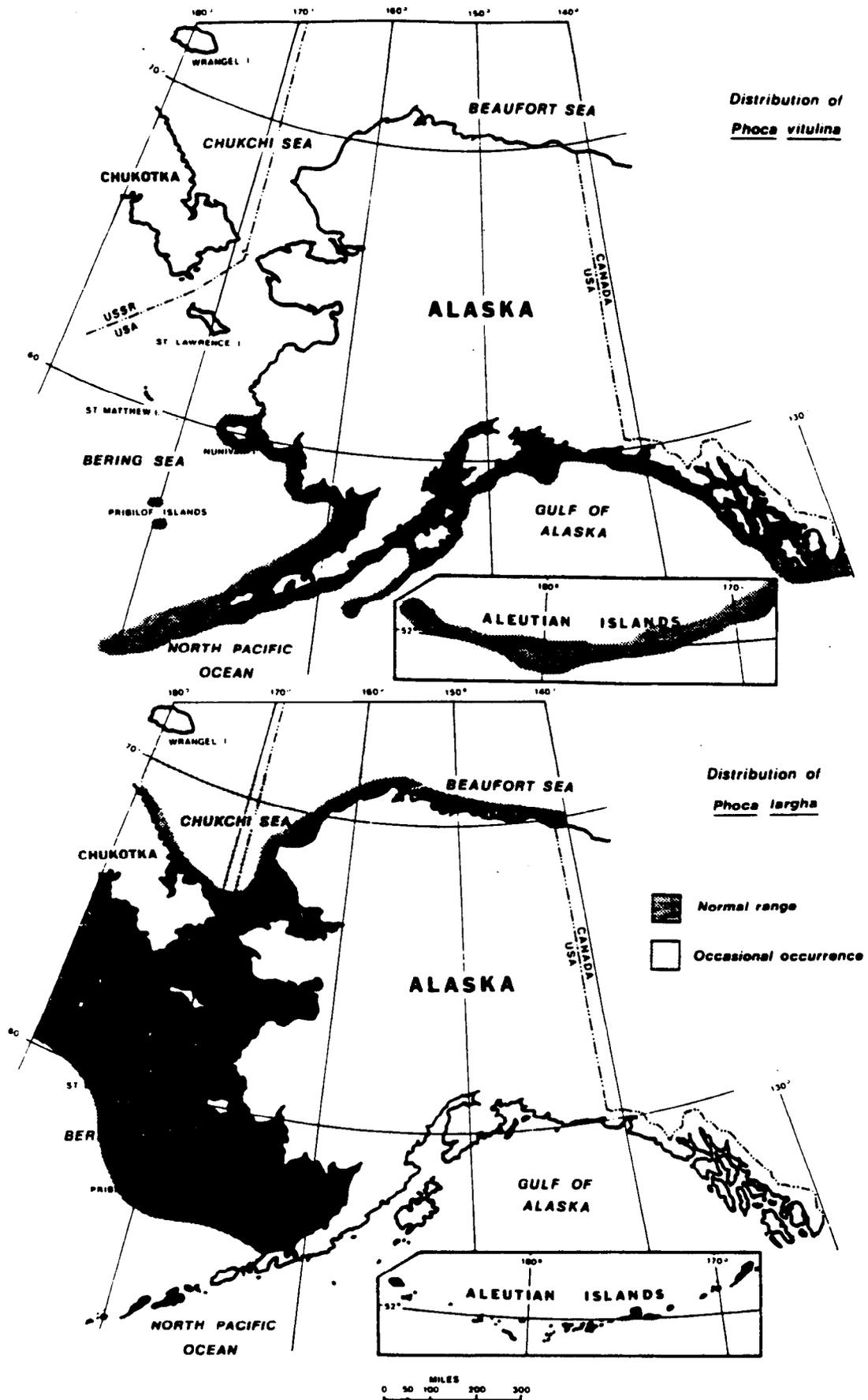


Fig. 3. [Top] General distribution of harbor seal (*Phoca vitulina*) in Alaska. [Bottom] General distribution of spotted seal (*Phoca largha*) in Alaska. (Source: Burns, Frost, and Lowry 1985)

year. The survey contained questions that pertained to harvest numbers, struck and lost animals, age of animals, and sex of animals. The survey also asked whether the household used, harvested, received, or gave away sea lion or harbor seal during the last year. Interviews were conducted by local researchers hired and trained as part of the project, augmented by regional Division of Subsistence researchers in select communities. A single survey was administered in January 1998 to cover the period from January through December 1997.

The project was designed to be a collaborative effort with Alaska Native hunters and organizations. During the first year of the study, a number of Native governments, Native leaders, and associations with interests in harbor seal and sea lion management were contacted to obtain suggestions about project design, including the Alaska Federation of Natives; the Aleutians 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 were asked to be the formal technical oversight organizations for the first five years of the project, through a subcontract with the Division of Subsistence. In 1997, formal technical oversight for the project was provided by the Alaska Native Harbor Seal Commission, through a subcontract. Each year, oversight groups have reviewed the project, data analysis, and preliminary findings of the study.

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 part of the harvest survey were not paid. Most marine mammal hunters generously offered their assistance to the study.

As stated above, a research network using locally-hired researchers and regional Division of Subsistence researchers was used to collect information on subsistence takes of sea lion and harbor seal during 1997. This type of research organization was developed by the Division of Subsistence during the first study year, and fully implemented by the second study year. In each of the 62 communities selected for surveys, one or two local residents were hired as local researchers. Newly hired local researchers received in-person training from regional researchers, whereas local researchers who successfully conducted surveys on previous rounds usually worked with regional researchers through telephone, fax, and the mail. Local researchers performed tasks such as updating community lists of households and hunters, implementing household sampling regimes, administering household surveys 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

**Table 1.  
Organizations Contacted During the Project**

<b>Community</b>	<b>Government/Organization</b>	<b>Community</b>	<b>Government/Organization</b>
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 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	Chilkat 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		

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. Data analysis was performed by Division of Subsistence data management program.

In 1997, harvest information in 2 of the 62 communities (Tyonek and Nikolski) was not collected because local surveyors could not be secured. In the previous successful survey year (1996), Tyonek hunters reported harvesting two harbor seals and no sea lions, while Nikolski hunters reported harvesting three sea lions, and four harbor seals (with one additional seal struck and lost). In this report, these 1996 take estimates will be used as estimates of the takes in 1997 for each community.

Households were selected using three main designs, depending upon the community -- census sampling, two-strata random sampling, and chain referral sampling. The type of design used for each community is shown in Table 2. Sampling designs and expansion methods were similar to those used the first study year, as described in Wolfe and Mishler (1993:17-19). For communities with census or chain referral sampling, 81.2 percent of identified households (1,239 of 1,526 households) were successfully contacted and interviewed. For communities with two-strata designs, 77.6 percent of high stratum household were successfully contacted and interviewed (198 of 255 households), while an 18.8 percent random sample of low stratum households were interviewed (212 of 1,129 households) (Tables 2 and 3). These are high sampling fractions for studies using survey methodologies which rely upon voluntary participation by surveyed households. Overall, the level of cooperation by households in the harvest survey was high in all communities. The non-response rate was primarily due to logistical problems in contacting households, rather than refusals to participate.

**Table 2**  
**Sampling Methodology By Community**  
**Harbor Seal and Sea Lion Surveys, 1997**

<u>Region and Community</u>	<u>Estimated Native Population</u>	<u>Type of Design</u>	<u>Identified Household Universe<sup>1</sup></u>	<u>Surveyed Households</u>	<u>Percentage Households Surveyed</u>
<b>1. SOUTHEAST</b>					
Angoon	522	Chain Referral	51	50	98.0%
Craig	289	Chain Referral	31	29	93.5%
Haines	279	Chain Referral	21	16	76.2%
Hoonah	582	Chain Referral	62	50	80.6%
Hydaburg	342	Chain Referral	14	11	78.6%
Juneau	3,462	Chain Referral	77	35	45.5%
Take	591	Chain Referral	76	60	78.9%
Ketchikan	1,614	Chain Referral	13	9	69.2%
Klawock	392	Chain Referral	25	25	100.0%
Klukwan	112	Chain Referral	9	8	88.9%
Pelican	65	Chain Referral	19	17	89.5%
Petersburg	334	Chain Referral	28	26	92.9%
Saxman	220	Chain Referral	12	12	100.0%
Sitka	1,766	Chain Referral	100	81	81.0%
Wrangell	507	Chain Referral	7	6	85.7%
Yakutat	405	Chain Referral	73	60	82.2%
<b>Region Total</b>	<b>11,482</b>		<b>618</b>	<b>495</b>	<b>80.1%</b>
<b>2. NORTH PACIFIC RIM</b>					
Chenega Bay	49	Census	15	7	46.7%
Cordova	695	Two Strata	235	42	17.9%
Nanwalek	153	Census	33	31	93.9%
Port Graham	153	Census	59	56	94.9%
Seldovia	129	Two Strata	44	27	61.4%
Seward	435	Chain Referral	2	1	50.0%
Tatitlek	78	Census	26	19	73.1%
Valdez	372	Chain Referral	5	4	80.0%
<b>Region Total</b>	<b>2,064</b>		<b>419</b>	<b>187</b>	<b>44.6%</b>
<b>3. UPPER KENAI-COOK INLET</b>					
Anchorage	14569	Chain Referral	31	25	80.6%
Homer	189	Chain Referral	9	7	77.8%
Kenai	1715	Chain Referral	13	13	100.0%
Tyonek	174	Chain Referral	6	6	100.0%
<b>Region Total</b>	<b>16,647</b>		<b>59</b>	<b>51</b>	<b>86.4%</b>
<b>4. KODIAK ISLAND</b>					
Akhiok	79	Census	21	16	76.2%
Karluk	46	Census	13	13	100.0%
Kodiak City	1,156	Chain Referral	10	10	100.0%
Larsen Bay	135	Census	39	28	71.8%
Old Harbor	288	Chain Referral	43	36	83.7%
Ouzinkie	162	Chain Referral	27	23	85.2%
Port Lions	147	Chain Referral	7	7	100.0%
<b>Region Total</b>	<b>2,013</b>		<b>160</b>	<b>133</b>	<b>83.1%</b>

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

**Table 2 (Continued)**  
**Sampling Methodology by Community,**  
**Harbor Seal and Sea Lion Surveys, 1997**

<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>
<b>5. SOUTH ALASKA PENINSULA</b>					
Chignik Bay	57	Census	22	15	68.2%
Chignik Lagoon	71	Census	20	15	75.0%
Chignik Lake	130	Census	32	29	90.6%
False Pass	30	Census	15	15	100.0%
Ivanof Bay	32	Census	9	5	55.6%
King Cove	337	Two Strata	118	27	22.9%
Perryville	118	Census	32	28	87.5%
Sand Point	485	Chain Referral	16	14	87.5%
<b>Region Total</b>	<b>1,260</b>		<b>264</b>	<b>148</b>	<b>56.1%</b>
<b>6. ALEUTIAN ISLANDS</b>					
Akutan	70	Census	28	22	78.6%
Atka	72	Census	26	17	65.4%
Nikolski	26	Census	11	11	100.0%
Unalaska	269	Two Strata	113	54	47.8%
<b>Region Total</b>	<b>437</b>		<b>178</b>	<b>104</b>	<b>58.4%</b>
<b>7. PRIBILOF ISLANDS</b>					
St. George	147	Census	45	39	86.7%
St. Paul	521	Two Strata	159	80	50.3%
<b>Region Total</b>	<b>668</b>		<b>204</b>	<b>119</b>	<b>58.3%</b>
<b>8. SOUTH BRISTOL BAY</b>					
Egegik	113	Census	36	22	61.1%
King Salmon	127	Census	37	19	51.4%
Levelock	73	Census	32	26	81.3%
Naknek	338	Two Strata	99	24	24.2%
Pilot Point	102	Census	29	28	96.6%
Port Heiden	103	Census	33	31	93.9%
South Naknek	127	Census	38	31	81.6%
<b>Region Total</b>	<b>982</b>		<b>304</b>	<b>181</b>	<b>59.5%</b>
<b>9. NORTH BRISTOL BAY</b>					
Aleknagik	186	Census	48	40	83.3%
Clark's Point	56	Census	20	16	80.0%
Dillingham	1,379	Two Strata	440	40	9.1%
Manokotak	366	Two Strata	72	67	93.1%
Togiak	479	Two Strata	104	49	47.1%
Twin Hills	61	Chain Referral	20	19	95.0%
<b>Region Total</b>	<b>2,526</b>		<b>704</b>	<b>231</b>	<b>32.8%</b>
<b>TOTAL</b>	<b>38,078</b>		<b>2,910</b>	<b>1,649</b>	<b>56.7%</b>
(Excl. Anchorage)	(23,509)		(2,879)	(1,624)	(56.4%)

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

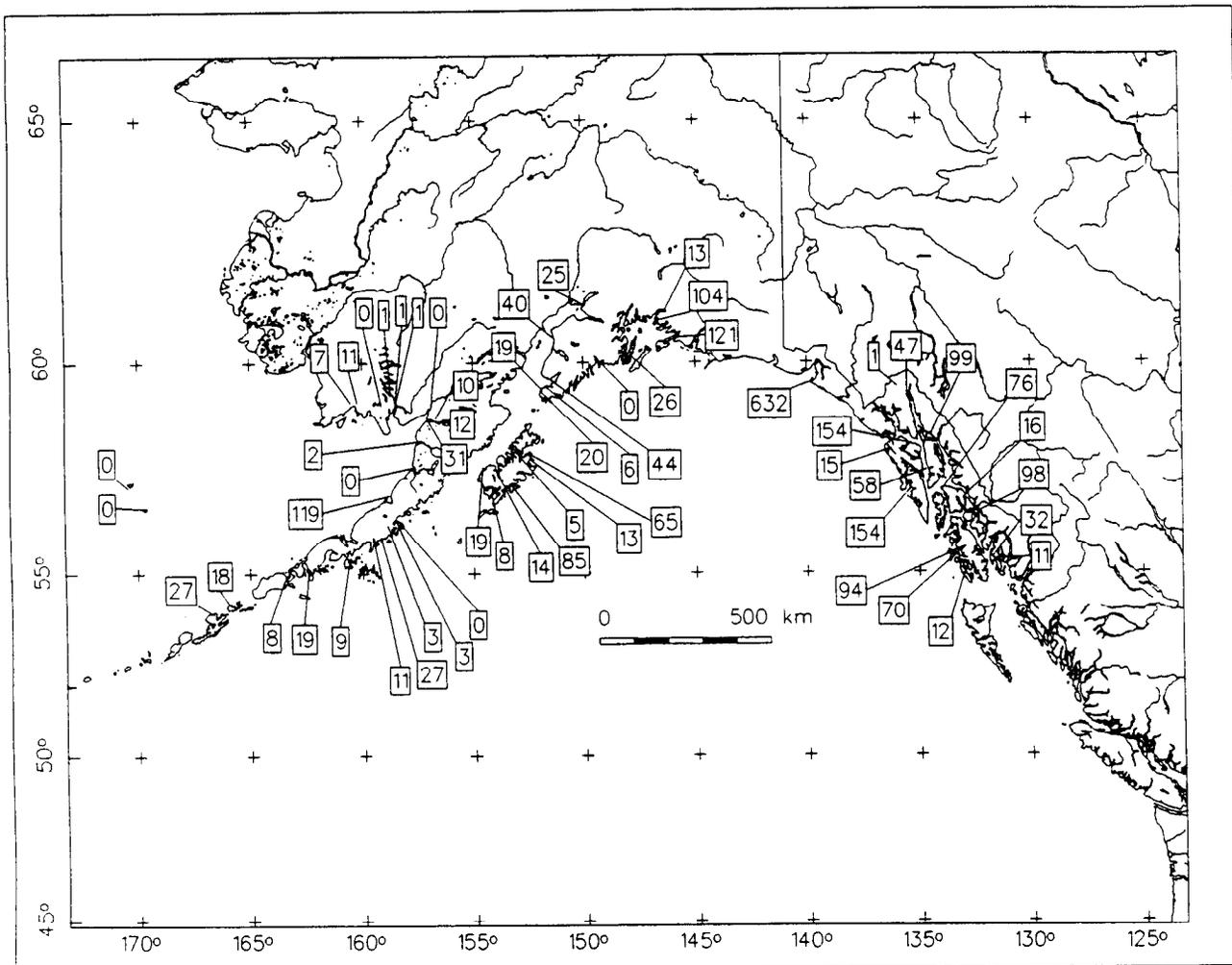
**Table 3**  
**Sampling Methodology for Communities**  
**With Two Strata Designs,**  
**Harbor Seal and Sea Lion Surveys, 1997**

<u>Community</u>	<u>Number</u> <u>High Stratum</u> <u>Households</u>	<u>Sampled</u> <u>High Stratum</u> <u>Households</u>	<u>Percent</u> <u>High</u> <u>Stratum</u>	<u>Number</u> <u>Low Stratum</u> <u>Households</u>	<u>Sampled</u> <u>Low Stratum</u> <u>Households</u>	<u>Percent</u> <u>Low</u> <u>Stratum</u>
Cordova	15	12	80.0%	220	30	13.6%
Dillingham	30	25	83.3%	410	15	3.7%
King Cove	18	17	94.4%	100	10	10.0%
Manokotak	32	28	87.5%	40	39	97.5%
Naknek	14	13	92.9%	85	11	12.9%
Seldovia	11	8	72.7%	33	19	57.6%
St. Paul	45	39	86.7%	114	41	36.0%
Togiak	66	37	56.1%	38	12	31.6%
Unalaska	24	19	79.2%	89	35	39.3%
<b>Total</b>	<b>255</b>	<b>198</b>	<b>77.6%</b>	<b>1129</b>	<b>212</b>	<b>18.8%</b>

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

In the appendices, the statistical analysis presents harvest data in three different tables for each community. In the first table, the unexpanded reported take is presented for each community, representing actual animals reported killed by surveyed hunters with no fractions of animals. The second table presents the combined estimated expanded take for each stratum in the community. In this table, takes of surveyed hunters are expanded to unsurveyed hunters within the stratum, using different methods depending upon the household sampling design as described above. In this expansion, the proportions of the seasonal takes of the surveyed households are preserved, so takes with unknown months exist in the table. The expansion treats each community as a separate sampling universe. Fractions of animals commonly result from the expansion, which are rounded to the nearest tenth. The third table presents a seasonally adjusted expanded take: takes with unknown months are assigned to months based on the proportion of the known take. The numbers in this third table form the basis for the numbers in the report's narrative.

The calculation of the confidence range around the estimate follow methods for stratified samples in Cochran (1977:5.13, 5.15). In this process, the unexpanded, reported take was used as the lower range for a community if it was higher than the statistically-calculated lower take estimate. This was done because the unexpanded take represents known (not hypothetical) kills.



**Fig. 4. Map of subsistence takes of harbor seal (*Phoca vitulina*) by Alaska Natives by community in 1997**

## THE SUBSISTENCE TAKE OF HARBOR SEAL IN 1997

### Estimated Size of the Harbor Seal Take, 1997

The estimated size of the total take of harbor seals (*Phoca vitulina*) by Alaska Natives in 1997 is presented in Tables 4 and 5. In 1997, there were an estimated 2,546 harbor seals taken by Alaska Natives for subsistence uses (with a 95 percent confidence range of between 2,069 to 3,309 animals) (Table 4). Of the 1997 subsistence take, 13.8 percent (351 harbor seals) were struck and lost, and 86.2 percent (2,195 harbor seals) were harvested.

The total state estimate for harbor seals is necessarily somewhat indeterminate because of species identification problems in the Bristol Bay area. As discussed in Wolfe and Mishler (1993:61-69), in Bristol Bay there are areas with a seasonal geographic overlap of harbor seal (*Phoca vitulina*) and spotted seal (*Phoca largha*) (see Fig. 3). Local indigenous Yup'ik taxonomies categorize adults of the two Linnaean species as a single type (*issuriq*) in this area, and categorize pups into two different types. Of the total North Bristol Bay take, we classified 21 seals as *Phoca vitulina* and 150 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*, 11.1 percent (17 animals) were reported struck and lost, and 88.9 percent (134 animals) were harvested (Appendix B, Table 9). In Table 4, we also assumed the entire South Bristol Bay take of 174 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 1997 is 2,546 harbor seals, based on the assumptions above.

**Table 4**  
**Estimated Subsistence Takes of**  
**Harbor Seal (*Phoca vitulina*) and**  
**Sea Lion (*Eumetopias jubatus*)**  
**By Alaska Natives, 1992 - 1997**

	<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>	
<b>Harbor Seal</b>	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
<b>Sea Lion</b>	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%	129 - 227

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

**Table 5**  
**Regional Distribution of Subsistence Takes of**  
**Harbor Seal (*Phoca vitulina*) by Alaska Natives, 1997**  
**With Confidence Intervals and Statistical Ranges**

Region	Estimated Total		Take	Confidence Interval (+/- %)	Total Take		Percentage of Take by Region	Per Capita Harvest	Struck and Lost Rate
	Harvest	Struck and Lost			Lower Range Estimate	Upper Range Estimate			
Southeast	1343.4	224.1	1567.4	27.6%	1290.9	1999.5	61.6%	0.12	14.3%
North Pacific Rim	295.0	12.8	307.7	49.1%	199.3	458.7	12.1%	0.14	4.1%
Upper Kenai-Cook Inlet	101.7	8.8	110.5	26.0%	94.0	139.2	4.3%	0.01	8.0%
Kodiak Island	189.8	18.3	208.2	17.0%	182.8	243.6	8.2%	0.09	8.8%
South Alaska Peninsula	68.3	12.1	80.4	26.1%	69.0	101.4	3.2%	0.05	15.0%
Aleutian Islands	70.5	6.3	76.9	53.1%	58.0	117.7	3.0%	0.17	8.3%
Pribilof Islands	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.00	0.0%
South Bristol Bay	107.8	66.3	174.1	22.9%	157.0	214.0	6.8%	0.11	38.1%
North Bristol Bay	18.8	2.1	20.9	57.9%	16.0	33.0	0.8%	0.01	10.1%
<b>ALASKA</b>	<b>2195.3</b>	<b>350.8</b>	<b>2546.2</b>	<b>29.9%</b>	<b>2067.1</b>	<b>3307.1</b>	<b>100.0%</b>		<b>13.8%</b>
Percentage of Take	86.2%	13.8%	100.0%						

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

**Table 6**  
**Subsistence Harbor Seal Harvest, Take, and Use by Alaska Natives, 1997**  
**With Confidence Intervals and Statistical Ranges, by Community**

Community	Harbor Seal Harvested Per Capita	Percent of Native	Percent of Native	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total Harbor Seal Take	Total Take		
		Households Harvesting Harbor Seal	Households Using Harbor Seal				Confidence Interval (+/- %)	Lower Range Estimate	Upper Range Estimate
<b>SOUTHEAST ALASKA</b>									
Angoon	.10	--	--	51.0	7.1	58.1	7.3%	57.0	62.4
Craig	.21	--	--	62.0	7.5	69.5	23.0%	65.0	85.4
Haines	.13	--	--	36.8	10.5	47.3	25.0%	36.0	59.1
Hoonah	.25	--	--	143.8	9.9	153.8	22.0%	124.0	187.5
Hydaburg	.03	--	--	11.5	0.0	11.5	44.4%	9.0	16.5
Juneau	.03	--	--	99.0	0.0	99.0	91.1%	45.0	189.2
Kake	.12	--	--	68.4	7.6	76.0	50.9%	60.0	114.6
Ketchikan	.02	--	--	27.4	4.3	31.8	73.4%	22.0	55.1
Klawock	.24	--	--	94.0	0.0	94.0	0.0%	94.0	94.0
Klukwan	.01	--	--	1.1	0.0	1.1	65.3%	1.0	1.9
Pelican	.22	--	--	14.5	0.0	14.5	31.5%	13.0	19.1
Petersburg	.04	--	--	11.8	4.3	16.2	13.5%	15.0	18.3
Saxman	.05	--	--	11.0	0.0	11.0	0.0%	11.0	11.0
Sitka	.09	--	--	150.6	3.7	154.3	11.9%	135.9	172.7
Wrangell	.14	--	--	68.8	29.2	98.0	69.9%	84.0	166.5
Yakutat	1.21	--	--	491.5	139.9	631.5	18.1%	519.0	746.0
<b>NORTH PACIFIC RIM</b>									
Chenega Bay	.52	57.1%	85.7%	25.7	0.0	25.7	65.0%	12.0	42.4
Cordova	.17	19.9%	30.8%	120.8	0.0	120.8	50.1%	60.3	181.3
Nanwalek	.13	16.1%	80.6%	20.2	0.0	20.2	21.8%	19.0	24.6
Port Graham	.10	10.7%	73.2%	15.8	3.2	19.0	23.0%	18.0	23.3
Seldovia	.02	6.3%	49.5%	2.8	2.8	5.5	77.4%	4.0	9.8
Seward	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Tatitlek	1.25	47.4%	100.0%	97.2	6.8	104.0	54.1%	76.0	160.2
Valdez	.03	--	--	12.5	0.0	12.5	36.5%	10.0	17.1
<b>UPPER KENAI-COOK INLET</b>									
Anchorage	.00	--	--	23.6	1.2	24.8	38.4%	20.0	34.3
Homer	.22	--	--	41.1	2.6	43.7	48.5%	34.0	64.9
Kenai	.02	--	--	35.0	5.0	40.0	0.0%	40.0	40.0
Tyonek	.08	--	--	2.0	0.0	2.0	0.0%	2.0	2.0
<b>KODIAK ISLAND</b>									
Akhiok	.10	18.8%	56.3%	7.9	0.0	7.9	56.4%	6.0	12.3
Karluk	.41	38.5%	61.5%	19.0	0.0	19.0	0.0%	19.0	19.0
Kodiak City	.01	--	--	13.0	0.0	13.0	0.0%	13.0	13.0
Larsen Bay	.07	14.3%	35.7%	9.8	4.2	13.9	64.0%	10.0	22.8
Old Harbor	.28	--	--	80.0	4.8	84.8	11.8%	74.8	94.8
Ouzinkie	.34	--	--	55.2	9.4	64.6	18.7%	55.0	76.6
Port Lions	.03	--	--	5.0	0.0	5.0	0.0%	5.0	5.0
<b>SOUTH ALASKA PENINSULA</b>									
Chignik Bay	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Chignik Lagoon	.02	6.7%	6.7%	1.3	1.3	2.7	98.0%	2.0	5.3
Chignik Lake	.02	6.9%	96.6%	2.2	1.1	3.3	33.4%	3.0	4.4
False Pass	.27	26.7%	53.3%	8.0	0.0	8.0	0.0%	8.0	8.0
Ivanof Bay	.28	60.0%	80.0%	9.0	1.8	10.8	53.3%	6.0	16.6
King Cove	.05	6.3%	19.2%	16.9	2.1	19.1	14.2%	18.0	21.8
Perryville	.18	25.0%	85.7%	21.7	5.7	27.4	25.2%	24.0	34.3
Sand Point	.02	--	--	9.1	0.0	9.1	20.9%	8.0	11.1

**Table 6 (Continued)**  
**Subsistence Harbor Seal Harvest, Take, and Use by Alaska Natives, 1997**  
**With Confidence Intervals and Statistical Ranges, by Community**

Community	Harbor Seal Harvested Per Capita	Percent of Native Households Harvesting Harbor Seal <sup>1</sup>	Percent of Native Households Using Harbor Seal <sup>1</sup>	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total Harbor Seal Take	Total Take		
							Confidence Interval (+/- %)	Lower Estimate	Upper Estimate
<b>ALEUTIAN ISLANDS</b>									
Akutan	.20	18.2%	72.7%	14.0	3.8	17.8	44.5%	14.0	25.8
Atka	.36	11.8%	100.0%	26.0	1.5	27.5	79.0%	18.0	49.3
Nikolski	.03	27.3%	45.5%	4.0	1.0	5.0	0.0%	5.0	5.0
Unalaska	.10	5.6%	57.3%	26.5	0.0	26.5	41.9%	21.0	37.6
<b>PRIBILOF ISLANDS</b>									
St. George	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
St. Paul	.00	0.0%	17.3%	0.0	0.0	0.0	0.0%	0.0	0.0
<b>SOUTH BRISTOL BAY</b>									
Egegik	.01	4.5%	13.6%	1.6	0.0	1.6	122.2%	1.0	3.6
King Salmon	.08	15.8%	15.8%	9.7	0.0	9.7	77.9%	5.0	17.3
Levelock	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Naknek	.07	3.3%	15.4%	24.8	6.5	31.2	31.7%	29.0	41.1
Pilot Point	.00	0.0%	3.6%	0.0	0.0	0.0	0.0%	0.0	0.0
Port Heiden	.67	64.5%	83.9%	69.2	50.0	119.2	10.0%	112.0	131.2
South Naknek	.02	3.2%	22.6%	2.5	9.8	12.3	68.8%	10.0	20.7
<b>NORTH BRISTOL BAY</b>									
Aleknagik	.01	12.5%	57.5%	1.2	0.0	1.2	80.0%	1.0	2.2
Clark's Point	.02	18.8%	100.0%	1.3	0.0	1.3	87.7%	1.0	2.3
Dillingham	.00	2.2%	67.6%	1.2	0.0	1.2	80.0%	1.0	2.2
Manokotak	.00	11.7%	62.8%	0.0	0.0	0.0	0.0%	0.0	0.0
Togiak	.01	37.0%	74.7%	6.7	0.0	6.7	90.1%	3.0	12.8
Twin Hills	.14	--	--	8.4	2.1	10.5	28.7%	10.0	13.6
<b>ALASKA TOTAL</b>				2195.3	350.8	2546.2	30.0%	2069.1	3309.1
<b>SPOTTED SEALS, NORTH BRISTOL BAY</b>									
Aleknagik	.06	12.5%	57.5%	10.8	0.0	10.8	43.2%	9.0	15.5
Clark's Point	.07	18.8%	100.0%	3.8	1.3	5.0	67.9%	4.0	8.4
Dillingham	.01	2.2%	67.6%	18.0	0.0	18.0	28.8%	15.0	23.2
Manokotak	.05	11.7%	62.8%	19.7	7.2	26.9	19.6%	26.0	32.2
Togiak	.17	37.0%	74.7%	79.2	7.1	86.4	48.1%	44.8	127.9
Twin Hills	.03	--	--	2.1	1.1	3.2	31.9%	3.0	4.2
<b>TOTAL WITH OTHER SEALS</b>				2326.9	366.4	2693.2	30.6%	2167.9	3516.3

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

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

### Geographic Distribution of Harbor Seal Takes

Table 5 shows the regional distribution of harbor seal takes by Alaska Natives in 1997. The largest takes in terms of absolute numbers were taken by the Tlingit and Haida of the Southeast region. About 61.6 percent of the statewide take of harbor seals (1,567 animals), were taken by hunters in Southeast Alaska (Table 5). The regions ranked second and third were the North Pacific Rim (308 seals, or 12.1 percent of the statewide take) and Kodiak Island (208 seals, or 8.2 percent). The remainder of the statewide harbor seal take (463 animals, or 18.2 percent) was distributed among the other six regions.

The geographic distribution of harbor seal takes by community is shown in Table 6 and Fig. 4. Of the top ten communities (in terms of absolute number of harbor seals taken in 1997), six were in the Southeast region, two in the North Pacific Rim region, one in the Kodiak Island region, and one in the South Bristol Bay region. The ten top ranking communities were Yakutat (632 seals), Sitka (154 seals), Hoonah (154 seals), Cordova (121 seals), Port Heiden (119 seals), Tatitlek (104 seals), Juneau (99 seals), Wrangell (98 seals), Klawock (94 seals), and Old Harbor (85 seals). There were seven surveyed communities with no reported harbor seals taken in 1997 -- Chignik Bay, Levelock, Manokotak, Pilot Point, St. George, St. Paul, and Seward.

Per capita harvests are the number of harbor seals harvested per Alaska Native living in a community. It is an estimate of the amount harvested per person in an area, controlling for differences in population size. The top ten communities in terms of harvests per capita in 1997 were Tatitlek (1.25 harbor seals harvested per person), Yakutat (1.21), Port Heiden (.67), Chenega Bay (.52), Karluk (.41), Atka (.36), Ouzinkie (.34), Old Harbor (.28), Ivanof Bay (.28), and False Pass (.27). 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, two each were in the North

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

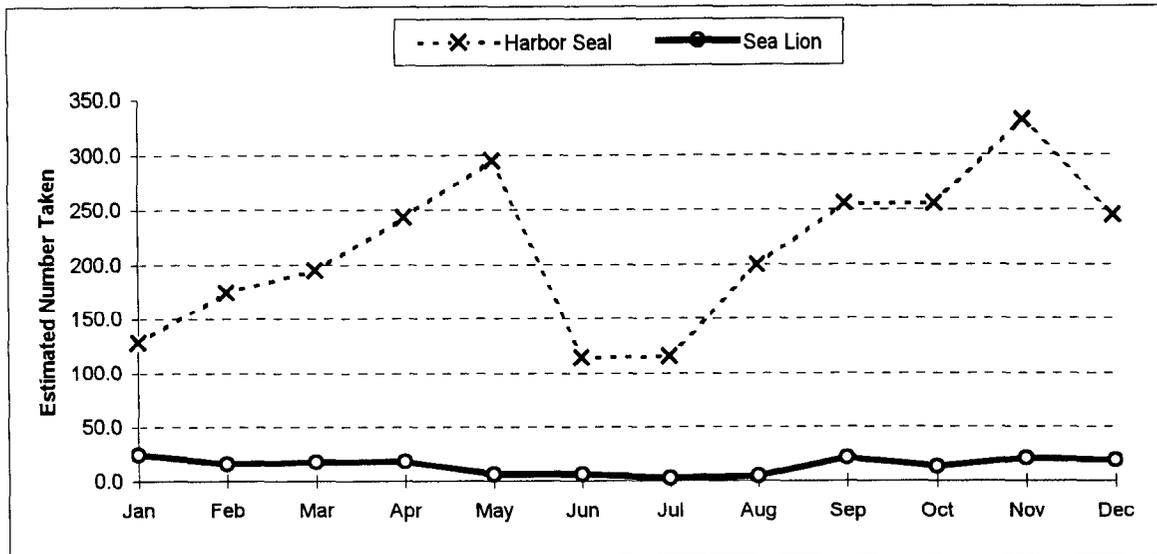
#### Seasonal Distribution of Harbor Seal Takes

The seasonal distribution of the statewide harbor seal take in 1997 is depicted in Figs. 5 and 6, and conforms with the general seasonal patterns for previous years. Harbor seals were reported killed during every month of 1997. In 1997, there were two seasonal hunting peaks – one during May and a second during November. The lowest point in hunting productivity was during June and July (see Fig. 5). During 1997, January through March were low in productivity compared with previous years, while the hunting productivity during the second half of the year (August through December) fell in the middle of the ranges for other years (see Fig. 6). The statewide total masks differences in seasonal patterns between regions and communities, which are depicted in Appendices B and C.

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

The estimated age and sex composition of the 1997 harbor seal harvests are shown in Tables 7 and 8 by geographic region. Hunters reported harvesting male harbor seals over female harbor seals by a ratio of about 2 to 1 (1,083 males to 537 females of harvests with reported sex). Hunters also reported harvesting substantially more adult harbor seals than juveniles or pups (4.2 to 1). Overall, adult females comprised about 26 percent of the total known harvest of harbor seals in 1997. Hunters did not report the sex for 26 percent of the harvest or the age for about 6 percent of the harvest. The age and sex are also unknown for animals which were struck and lost. A further analysis of age and sex composition is found in the Discussion section.

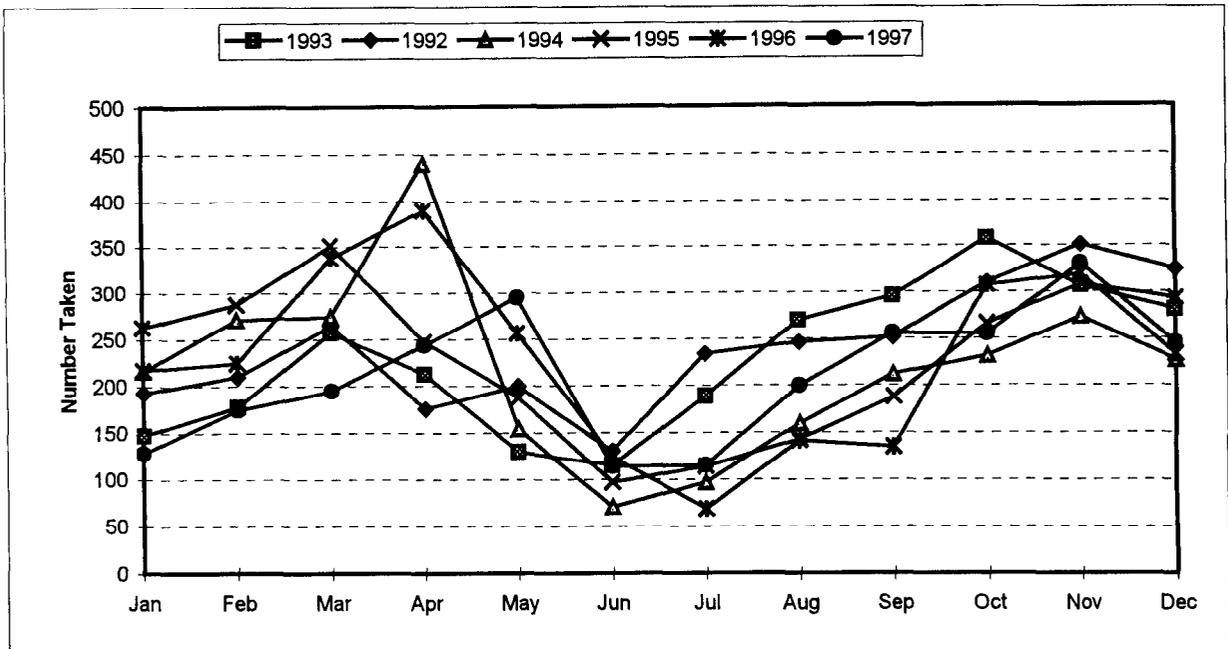
**Figure 5**  
**Seasonally Adjusted Takes of**  
**Harbor Seal and Sea Lion**  
**By Alaska Natives, 1997**



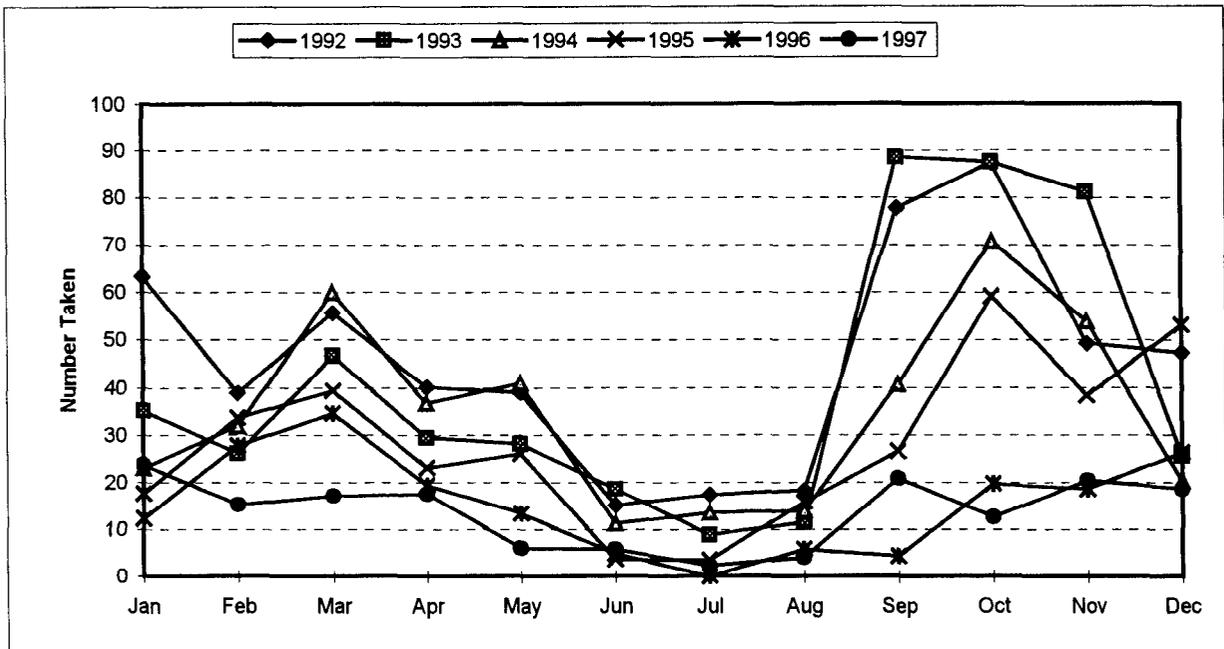
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Harbor Seal	128.3	174.2	194.7	243.0	294.8	114.2	115.2	199.4	255.2	254.8	330.8	244.7
Percentage	5.0%	6.8%	7.6%	9.5%	11.6%	4.5%	4.5%	7.8%	10.0%	10.0%	13.0%	9.6%
Cum. Percent	5.0%	11.9%	19.5%	29.0%	40.6%	45.1%	49.6%	57.4%	67.4%	77.4%	90.4%	100%
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sea Lion	23.7	15.3	17.1	17.4	5.9	5.7	2.3	4.0	20.8	12.6	20.5	18.5
Percentage	14.5%	9.3%	10.4%	10.6%	3.6%	3.5%	1.4%	2.4%	12.7%	7.7%	12.5%	11.3%
Cum. Percent	14.5%	23.8%	34.3%	44.9%	48.5%	52.0%	53.4%	55.8%	68.5%	76.2%	88.7%	100%

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

**Figure 6**  
**Estimated Seasonally Adjusted Takes of Harbor Seal**  
**by Alaska Natives, 1992, 1993, 1994, 1995, 1996, 1997**



**Figure 7**  
**Estimated Seasonally Adjusted Takes of Sea Lion**  
**by Alaska Natives, 1992, 1993, 1994, 1995, 1996, 1997**



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

**Table 7**  
**Age and Sex Composition of Harbor Seal Harvests**  
**By Alaska Natives, 1997**

	Male	Female	Unknown Sex	Total
<b>Adult</b>	836.3	414.8	411.9	1663.0
Row Percent	50.3%	24.9%	24.8%	100.0%
Column Percent	77.2%	77.2%	71.6%	75.8%
<b>Juvenile</b>	187.0	92.1	71.6	350.8
Row Percent	53.3%	26.3%	20.4%	100.0%
Column Percent	17.3%	17.1%	12.5%	16.0%
<b>Pup</b>	22.1	15.2	8.5	45.8
Row Percent	48.3%	33.1%	18.6%	100.0%
Column Percent	2.0%	2.8%	1.5%	2.1%
<b>Unknown Age</b>	37.4	15.3	83.1	135.8
Row Percent	27.6%	11.3%	61.2%	100.0%
Column Percent	3.5%	2.8%	14.4%	6.2%
<b>Total</b>	1082.9	537.3	575.1	2195.3
Row Percent	49.3%	24.5%	26.2%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%

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

**Table 8**  
**Age and Sex Composition of Harbor Seal Harvests**  
**By Alaska Natives by Region, 1997**

AGE AND SEX	Southeast	Upper			South			South	North	Alaska
		Pacific Rim	Kenai-Cook Inlet	Kodiak Island	Alaska Peninsula	Aleutian Islands	Pribilof Islands	Bristol Bay	Bristol Bay	
Adult Male	615.0	64.1	25.0	65.7	17.5	18.5	0.0	26.6	3.9	836.3
Adult Female	328.6	30.1	8.0	20.8	6.5	8.9	0.0	12.0	0.0	414.8
Adult Unknown Sex	230.4	67.8	26.9	20.9	22.2	5.1	0.0	34.9	3.7	411.9
Juvenile Male	84.6	43.1	4.0	30.9	5.7	13.4	0.0	1.1	4.2	187.0
Juvenile Female	28.7	34.6	3.0	11.6	4.4	5.9	0.0	1.1	2.8	92.1
Juvenile Unknown Sex	7.7	21.7	10.1	21.9	8.1	0.0	0.0	2.1	0.0	71.6
Pup Male	1.2	17.4	0.0	2.2	0.0	0.0	0.0	1.2	0.0	22.1
Pup Female	0.0	10.9	0.0	1.2	0.0	3.1	0.0	0.0	0.0	15.2
Pup Unknown Sex	0.0	2.5	0.0	2.0	2.9	0.0	0.0	1.1	0.0	8.5
Male Unknown Age	30.8	0.0	0.0	5.6	1.0	0.0	0.0	0.0	0.0	37.4
Female Unknown Age	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3
Unknown Age and Sex	1.0	2.7	24.7	7.0	0.0	15.8	0.0	27.7	4.2	83.1
<b>TOTAL</b>	<b>1343.4</b>	<b>295.0</b>	<b>101.7</b>	<b>189.8</b>	<b>68.3</b>	<b>70.5</b>	<b>0.0</b>	<b>107.8</b>	<b>18.8</b>	<b>2195.3</b>
<b>AGE ONLY</b>										
Adult	1174.0	162.0	59.9	107.4	46.2	32.4	0.0	73.6	7.5	1663.0
Juvenile	121.0	99.4	17.1	64.5	18.2	19.3	0.0	4.3	7.9	350.8
Pup	1.2	30.8	0.0	5.4	2.9	3.1	0.0	2.3	10.7	45.8
Unknown Age	47.1	2.7	24.7	12.5	1.0	15.8	0.0	27.7	7.1	135.8
<b>TOTAL</b>	<b>1343.4</b>	<b>295.0</b>	<b>101.7</b>	<b>189.8</b>	<b>68.3</b>	<b>70.5</b>	<b>0.0</b>	<b>107.8</b>	<b>33.2</b>	<b>2195.3</b>
<b>SEX ONLY</b>										
Male	731.7	124.6	29.0	104.4	24.2	31.9	0.0	28.9	8.1	1082.9
Female	372.6	75.6	11.0	33.6	10.9	17.8	0.0	13.1	2.8	537.3
Unknown Sex	239.1	94.8	61.7	51.8	33.2	20.8	0.0	65.8	7.9	575.1
<b>TOTAL</b>	<b>1343.4</b>	<b>295.0</b>	<b>101.7</b>	<b>189.8</b>	<b>68.3</b>	<b>70.5</b>	<b>0.0</b>	<b>107.8</b>	<b>18.8</b>	<b>2195.3</b>

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



## THE SUBSISTENCE TAKE OF SEA LION IN 1997

### Estimated Size of the Sea Lion Take, 1997

The estimated size of the total take of Steller sea lions by Alaska Natives in 1997 is presented in Tables 4 and 9. In 1997, there were an estimated 164 sea lions taken by Alaska Natives for subsistence uses (with a 95 percent confidence range of between 129 to 227 animals) (Table 4). Of the 1997 subsistence take, 10.9 percent (18 sea lions) were struck and lost, and 89.1 percent (146 sea lions) were harvested.

### Geographic Distribution of Sea Lion Takes

Table 9 shows the regional distribution of sea lion takes in 1997 by Alaska Natives. In 1997, the takes were split among three main regions -- Kodiak Island (38 sea lions, or 23.3 percent of the total statewide take of sea lions), the Aleutian Islands (52 sea lions, or 31.7 percent), and the Pribilof Islands (56 sea lions, or 34.1 percent). Other regions harvesting sea lions were the North Pacific Rim (6 sea lions, 3.6 percent), South Alaska Peninsula (8 sea lions, 5.1 percent), and North Bristol Bay (4 sea lions, 2.2 percent) (Table 9).

The geographic distribution of sea lion takes by community is shown in Table 10 and Fig. 8. Only seven communities had harvests of five or more sea lions in 1997. Nine more communities reported a take of less than five sea lions. The five top ranking communities were Unalaska (30 sea lions), St. Paul (28 sea lions), St. George (28 sea lions), Old Harbor (26 sea lions), and Atka (12 sea lions). These five communities accounted for 76.2 percent of the total Alaska take (125 sea lions). In 1997, 46 of 62 surveyed communities reported no sea lions taken.

**Table 9**  
**Regional Distribution of Subsistence Takes of**  
**Sea Lion (*Eumetopias jubatus*) by Alaska Natives, 1997**  
**With Confidence Intervals and Statistical Ranges**

Region	Estimated Total		Take	Confidence Interval (+/-)%	Total Take		Percentage of Take by Region	Per Capita Harvest	Struck and Lost Rate
	Harvest	Struck and Lost			Lower Range Estimate	Upper Range Estimate			
Southeast	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.00	0.0%
North Pacific Rim	4.5	1.4	5.8	109.4%	4.0	12.2	3.6%	0.00	23.4%
Upper Kenai-Cook Inlet	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.00	0.0%
Kodiak Island	33.3	4.9	38.2	25.4%	32.0	47.9	23.3%	0.02	12.8%
South Alaska Peninsula	8.3	0.0	8.3	60.9%	7.0	13.4	5.1%	0.01	0.0%
Aleutian Islands	50.7	1.3	51.9	45.1%	37.0	75.3	31.7%	0.12	2.4%
Pribilof Islands	45.5	10.4	55.9	27.0%	47.0	70.9	34.1%	0.07	18.6%
South Bristol Bay	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.00	0.0%
North Bristol Bay	3.6	0.0	3.6	90.6%	2.0	6.8	2.2%	0.00	0.0%
<b>ALASKA</b>	<b>145.7</b>	<b>17.9</b>	<b>163.7</b>	<b>38.4%</b>	<b>129.0</b>	<b>226.5</b>	<b>100.0%</b>		<b>10.9%</b>
Percentage of Take	89.1%	10.9%	100.0%						

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

### Seasonal Distribution of Sea Lion Takes

The seasonal distribution of the sea lion take in 1997 is depicted in Figs. 5 and 7. Sea lions were reported killed during every month in 1997. Productivity was fairly consistent January through April and September through December, while summer (May through August) was the period of lowest productivity. Overall, sea lion hunting productivity was poor in 1997. The first half of 1997 showed the lowest levels of take of any previous surveyed year (1992 through 1996). The second half of the year continued to be poor, and was similar to 1996 in productivity. Seasonal patterns of regions and communities are depicted in Appendices B and C.

### Age and Sex Composition of Sea Lion Harvests

The reported age and sex compositions of the 1997 sea lion harvests are shown in Tables 11 and 12 by geographic region. Hunters reported harvesting male sea lions over female sea lions by a ratio of about 3.6 to 1 (86 males to 24 females of animals with sex reported). In 1997, hunters reported harvesting slightly more juvenile sea lions than adult sea lions (77 juveniles to 56 adults). From 1992 to 1995, juvenile harvests outnumbered adult harvests by at least 2 to 1 -- 2.3:1 (1992), 1.9:1 (1993), 2.2:1 (1994), 2.0:1 (1995); this age composition changed in 1996 to more parity between juveniles and adults -- 1.0:1 (1996) and 1.4:1 (1997). Adult females comprised about 12.3 percent of the total known harvest of sea lions in 1997. Hunters did not report the sex for 24.8 percent of the harvest or the age for about 8.0 percent of the harvest. The age and sex also are unknown for sea lions which were struck and lost.

**Table 10**  
**Subsistence Sea Lion Harvest, Take, and Use by Alaska Natives, 1997**  
**With Confidence Intervals and Statistical Ranges, by Community**

Community	Sea Lion Harvested Per Capita	Percent of Native Households Harvesting Sea Lion	Percent of Native Households Using Sea Lion	Sea Lion Harvested	Sea Lion Struck and Lost	Total Sea Lion Take	Total Take		
							Confidence Interval (+/- %)	Lower Range Estimate	Upper Range Estimate
<b>SOUTHEAST ALASKA</b>									
Angoon	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Craig	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Haines	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Hoonah	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Hydaburg	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Juneau	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Kake	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Ketchikan	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Klawock	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Klukwan	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Pelican	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Petersburg	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Saxman	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Sitka	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Wrangell	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Yakutat	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
<b>NORTH PACIFIC RIM</b>									
Chenega Bay	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Cordova	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Nanwalek	.00	0.0%	58.1%	0.0	0.0	0.0	0.0%	0.0	0.0
Port Graham	.00	0.0%	21.4%	0.0	0.0	0.0	0.0%	0.0	0.0
Seldovia	.01	3.9%	14.1%	1.7	0.0	1.7	127.7%	1.0	4.0
Seward	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Tatitlek	.04	5.3%	47.4%	2.7	1.4	4.1	101.7%	3.0	8.3
Valdez	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
<b>UPPER KENAI-COOK INLET</b>									
Anchorage	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Homer	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
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
<b>KODIAK ISLAND</b>									
Akhiok	.08	25.0%	50.0%	6.6	1.3	7.9	45.8%	6.0	11.5
Karluk	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Kodiak City	.00	--	--	3.0	0.0	3.0	0.0%	3.0	3.0
Larsen Bay	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Old Harbor	.08	--	--	22.7	3.6	26.3	23.2%	22.0	32.4
Ouzinkie	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
Port Lions	.01	--	--	1.0	0.0	1.0	0.0%	1.0	1.0
<b>SOUTH ALASKA PENINSULA</b>									
Chignik Bay	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Chignik Lagoon	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Chignik Lake	.00	0.0%	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	.06	20.0%	20.0%	1.8	0.0	1.8	130.7%	1.0	4.2
King Cove	.01	2.7%	2.7%	4.2	0.0	4.2	26.8%	4.0	5.4
Perryville	.02	3.6%	7.1%	2.3	0.0	2.3	69.3%	2.0	3.9
Sand Point	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0

**Table 10 (Continued)**  
**Subsistence Sea Lion Harvest, Take, and Use by Alaska Natives, 1997**  
**With Confidence Intervals and Statistical Ranges, by Community**

Community	Sea Lion Harvested Per Capita	Percent of Native Households Harvesting Sea Lion	Percent of Native Households Using Sea Lion	Sea Lion Harvested	Sea Lion Struck and Lost	Total Sea Lion Take	Total Take		
							Confidence Interval (+/- %)	Lower Range Estimate	Upper Range Estimate
<b>ALEUTIAN ISLANDS</b>									
Akutan	.09	9.1%	86.4%	6.4	0.0	6.4	64.0%	5.0	10.4
Atka	.17	23.5%	100.0%	12.2	0.0	12.2	63.4%	8.0	20.0
Nikolski	.12	27.3%	36.4%	3.0	0.0	3.0	0.0%	0.0	3.0
Unalaska	.11	5.6%	52.8%	29.1	1.3	30.3	38.2%	24.0	41.9
<b>PRIBILOF ISLANDS</b>									
St. George	.13	23.1%	61.5%	19.6	8.1	27.7	26.9%	24.0	35.1
St. Paul	.05	8.3%	74.7%	25.9	2.3	28.2	27.0%	23.0	35.8
<b>SOUTH BRISTOL BAY</b>									
Egegik	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
King Salmon	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Levelock	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Naknek	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Pilot Point	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Port Heiden	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
South Naknek	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
<b>NORTH BRISTOL BAY</b>									
Aleknagik	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Clark's Point	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Dillingham	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Manokotak	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Togiak	.01	3.4%	3.4%	3.6	0.0	3.6	90.6%	2.0	6.8
Twin Hills	.00	--	--	0.0	0.0	0.0	0.0%	0.0	0.0
<b>ALASKA TOTAL</b>				145.7	17.9	163.7	38.4%	129.0	226.5

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

**Table 11**  
**Age and Sex Composition of Sea Lion Harvests**  
**By Alaska Natives, 1997**

	Male	Female	Unknown Sex	Total
<b>Adult</b>	25.5	13.4	17.4	56.3
Row Percent	45.3%	23.9%	30.8%	100.0%
Column Percent	29.7%	57.0%	48.0%	38.6%
<b>Juvenile</b>	59.3	10.1	7.2	76.6
Row Percent	77.4%	13.2%	9.4%	100.0%
Column Percent	69.0%	43.0%	19.9%	52.6%
<b>Pup</b>	1.2	0.0	0.0	1.2
Row Percent	0.0%	0.0%	0.0%	0.0%
Column Percent	1.3%	0.0%	0.0%	0.8%
<b>Unknown Age</b>	0.0	0.0	11.6	11.6
Row Percent	0.0%	0.0%	100.0%	100.0%
Column Percent	0.0%	0.0%	32.1%	8.0%
<b>Total</b>	86.0	23.6	36.2	145.7
Row Percent	59.0%	16.2%	24.8%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%

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

**Table 12**  
**Age and Sex Composition of Sea Lion Harvests**  
**By Alaska Natives by Region, 1997**

AGE AND SEX	Southeast	North	Upper	Kodiak	South	Aleutian	Pribilof	South	North	Alaska
		Pacific	Kenai-		Alaska			Bristol	Bristol	
		Rim	Inlet	Island	Peninsula	Islands	Islands	Bay	Bay	
Adult Male	0.0	0.0	0.0	1.3	2.1	20.3	0.0	0.0	1.8	25.5
Adult Female	0.0	0.0	0.0	1.2	2.1	10.1	0.0	0.0	0.0	13.4
Adult Unknown Sex	0.0	1.7	0.0	9.6	2.3	3.8	0.0	0.0	0.0	17.4
Juvenile Male	0.0	0.0	0.0	11.0	0.0	9.1	37.4	0.0	1.8	59.3
Juvenile Female	0.0	0.0	0.0	1.2	0.0	4.3	4.6	0.0	0.0	10.1
Juvenile Unknown Sex	0.0	0.0	0.0	5.4	1.8	0.0	0.0	0.0	0.0	7.2
Pup Male	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.2
Pup Female	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pup Unknown Sex	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Male Unknown Age	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Female Unknown Age	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown Age and Sex	0.0	2.7	0.0	3.6	0.0	3.0	2.3	0.0	0.0	11.6
<b>TOTAL</b>	<b>0.0</b>	<b>4.5</b>	<b>0.0</b>	<b>33.3</b>	<b>8.3</b>	<b>50.7</b>	<b>45.5</b>	<b>0.0</b>	<b>3.6</b>	<b>145.7</b>
<b>AGE ONLY</b>										
Adult	0.0	1.7	0.0	12.1	6.5	34.2	0.0	0.0	1.8	56.3
Juvenile	0.0	0.0	0.0	17.6	1.8	13.4	42.0	0.0	1.8	76.6
Pup	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.2
Unknown Age	0.0	2.7	0.0	3.6	0.0	3.0	2.3	0.0	0.0	11.6
<b>TOTAL</b>	<b>0.0</b>	<b>4.5</b>	<b>0.0</b>	<b>33.3</b>	<b>8.3</b>	<b>50.7</b>	<b>45.5</b>	<b>0.0</b>	<b>3.6</b>	<b>145.7</b>
<b>SEX ONLY</b>										
Male	0.0	0.0	0.0	12.3	2.1	29.4	38.5	0.0	3.6	86.0
Female	0.0	0.0	0.0	2.4	2.1	14.5	4.6	0.0	0.0	23.6
Unknown Sex	0.0	4.5	0.0	18.5	4.1	6.8	2.3	0.0	0.0	36.2
<b>TOTAL</b>	<b>0.0</b>	<b>4.5</b>	<b>0.0</b>	<b>33.3</b>	<b>8.3</b>	<b>50.7</b>	<b>45.5</b>	<b>0.0</b>	<b>3.6</b>	<b>145.7</b>

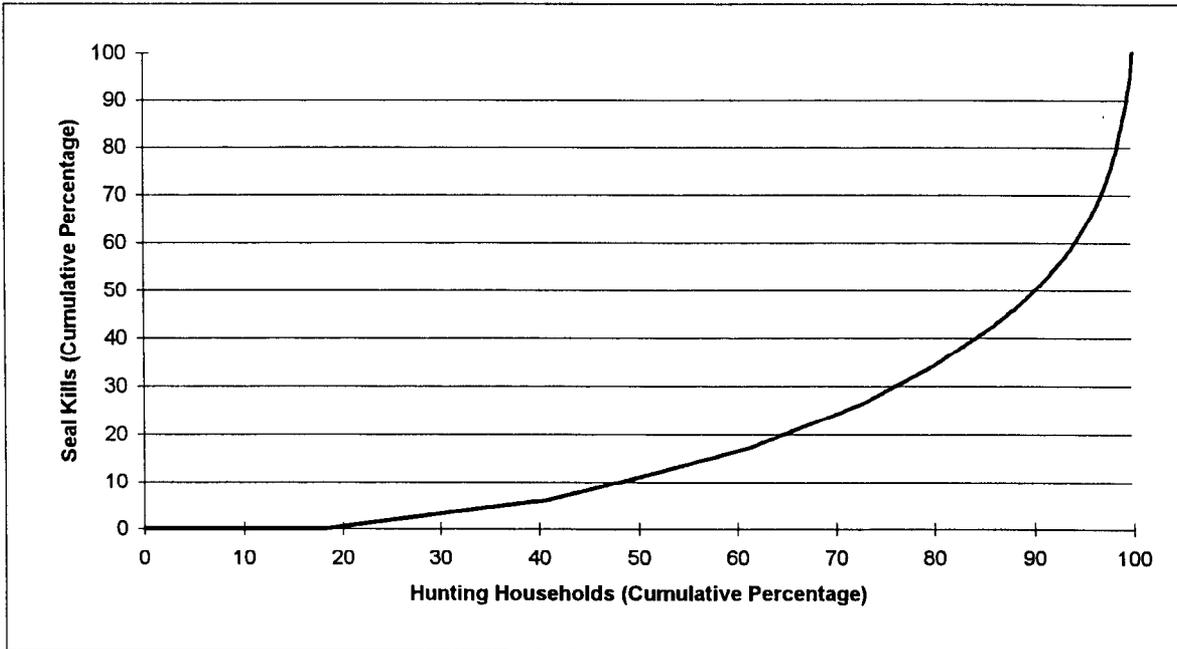
Source: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1998.

**Table 13**  
**Participation Rates of Alaska Native Households in**  
**Hunting Harbor Seal or Sea Lion, 1992 - 97**

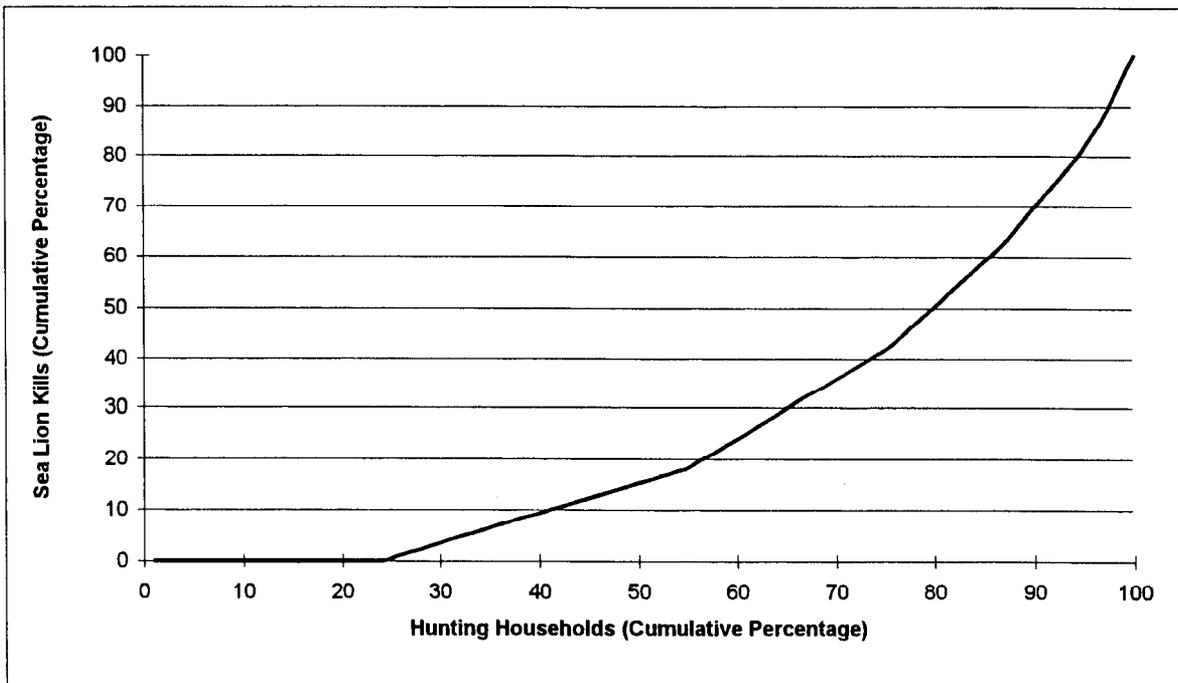
	HARBOR SEAL			SEA LION		
	Household Universe	Percentage of Household Universe	Percentage of Hunting Households	Household Universe	Percentage of Household Universe	Percentage of Hunting Households
<b>STUDY YEAR 1992</b>						
Did Not Hunt	2698	73%	--	3513	95%	--
Hunted Unsuccessfully	290	8%	29%	59	2%	30%
Hunted Successfully	724	19%	71%	140	4%	70%
Total Households	3712	100%	--	3712	100%	--
Total Hunting Households	1014	27%	100%	199	5%	100%
<b>STUDY YEAR 1993</b>						
Did Not Hunt	3510	80%	--	4142	95%	--
Hunted Unsuccessfully	216	5%	25%	78	2%	35%
Hunted Successfully	638	15%	75%	144	3%	65%
Total Households	4364	100%	--	4364	100%	--
Total Hunting Households	854	20%	100%	222	5%	100%
<b>STUDY YEAR 1994</b>						
Did Not Hunt	3311	77%	--	4072	95%	--
Hunted Unsuccessfully	362	8%	37%	85	2%	40%
Hunted Successfully	608	14%	63%	125	3%	60%
Total Households	4282	100%	--	4282	100%	--
Total Hunting Households	971	23%	100%	210	5%	100%
<b>STUDY YEAR 1995</b>						
Did Not Hunt	2926	78%	--	3573	96%	--
Hunted Unsuccessfully	208	6%	26%	39	1%	24%
Hunted Successfully	597	16%	74%	120	3%	76%
Total Households	3731	100%	--	3731	100%	--
Total Hunting Households	805	22%	100%	158	4%	100%
<b>STUDY YEAR 1996</b>						
Did Not Hunt	2781	76%	--	3510	96%	--
Hunted Unsuccessfully	240	7%	28%	45	1%	35%
Hunted Successfully	619	17%	72%	85	2%	65%
Total Households	3640	100%	--	3640	100%	--
Total Hunting Households	859	24%	100%	130	4%	100%
<b>STUDY YEAR 1997</b>						
Did Not Hunt	2172	75%	--	2813	97%	--
Hunted Unsuccessfully	150	5%	20%	23	1%	23%
Hunted Successfully	588	20%	80%	75	3%	77%
Total Households	2910	100%	--	2910	100%	--
Total Hunting Households	738	25%	100%	97	3%	100%

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

**Figure 9**  
**Specialization in Harbor Seal Takes:**  
**Percentage of Hunting Households by Percentage of Take, 1997**

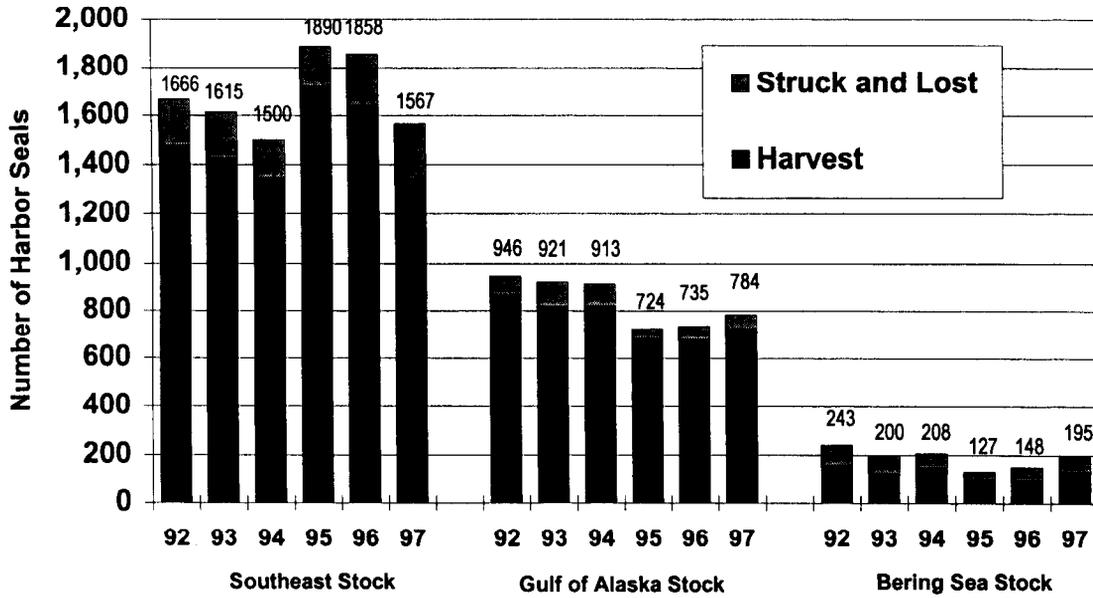


**Figure 10**  
**Specialization in Sea Lion Takes:**  
**Percentage of Hunting Households by Percentage of Take, 1997**



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

Fig. 11. Harbor Seal Take Trends Reported by Alaska Native Hunters by Harbor Seal Stock, 1992-1997



		Struck and		Total Take
		Harvest	Lost	
<b>Southeast Alaska Stock</b>				
	92	1,477	189	1,666
	93	1,425	190	1,615
	94	1,348	151	1,500
	95	1,719	171	1,890
	96	1,642	216	1,858
	97	1,343	224	1,567
<b>Gulf of Alaska Stock</b>				
	92	865	81	946
	93	818	103	921
	94	819	94	913
	95	683	42	724
	96	679	56	735
	97	726	58	784
<b>Bering Sea Stock</b>				
	92	160	83	243
	93	122	78	200
	94	145	63	208
	95	97	31	127
	96	94	54	148
	97	127	68	195

## HUNTING PARTICIPATION

Participation in hunting in 1997 was the lowest of the six survey years (1992-97) for sea lion and for harbor seal. Based on survey findings, the estimated numbers of households which reported at least one member hunting harbor seal were 1,014 (1992), 854 (1993), 971 (1994), 805 (1995), 859 (1996), and 738 (1997) (Table 13). The estimated numbers of households which reported at least one member hunting sea lions were 199 (1992), 222 (1993), 210 (1994), 158 (1995), 130 (1996), and 97 (1997). The apparent reduction of the number of hunters is discussed in the next section.

The percentage of hunting households that reported hunting unsuccessfully for harbor seal in 1997 was 20 percent, the lowest in the last six years (29 percent in 1992, 25 percent in 1993, 37 percent in 1994, 26 percent in 1995, and 28 percent in 1996). Similarly, the percent of unsuccessful hunting households for sea lion was 23 percent in 1997 (compared with 30 percent in 1992, 35 percent in 1993, 40 percent in 1994, 24 percent in 1995, and 35 percent in 1997). Therefore, hunter success rates have improved while the absolute number of hunters have fallen.

Hunting harbor seal or sea lion 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 13. Among hunters, there also was substantial specialization in productivity (see Figs. 9 and 10). A relatively small core of highly-productive hunters reported taking most of the subsistence kills during 1997, similar to previous years. About 30 percent of the hunters reported taking about 75 percent of all harbor seals and about 65 percent of all sea lions. Highly-productive hunters commonly distributed marine mammal products among a wider range of households through non-commercial systems of sharing and trade.

Figure 12. Harbor Seal Take Trends Reported by  
Alaska Native Hunters by Major Area, 1992-1997

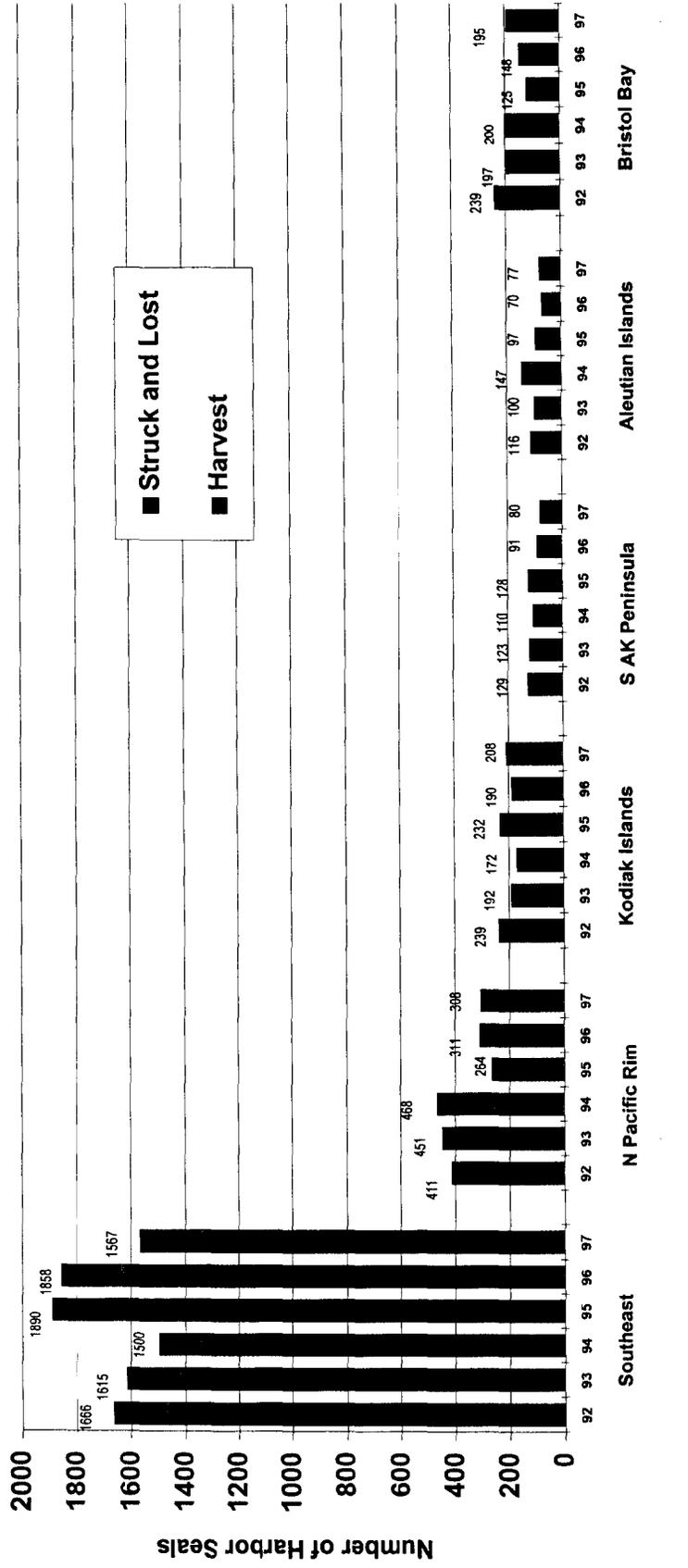
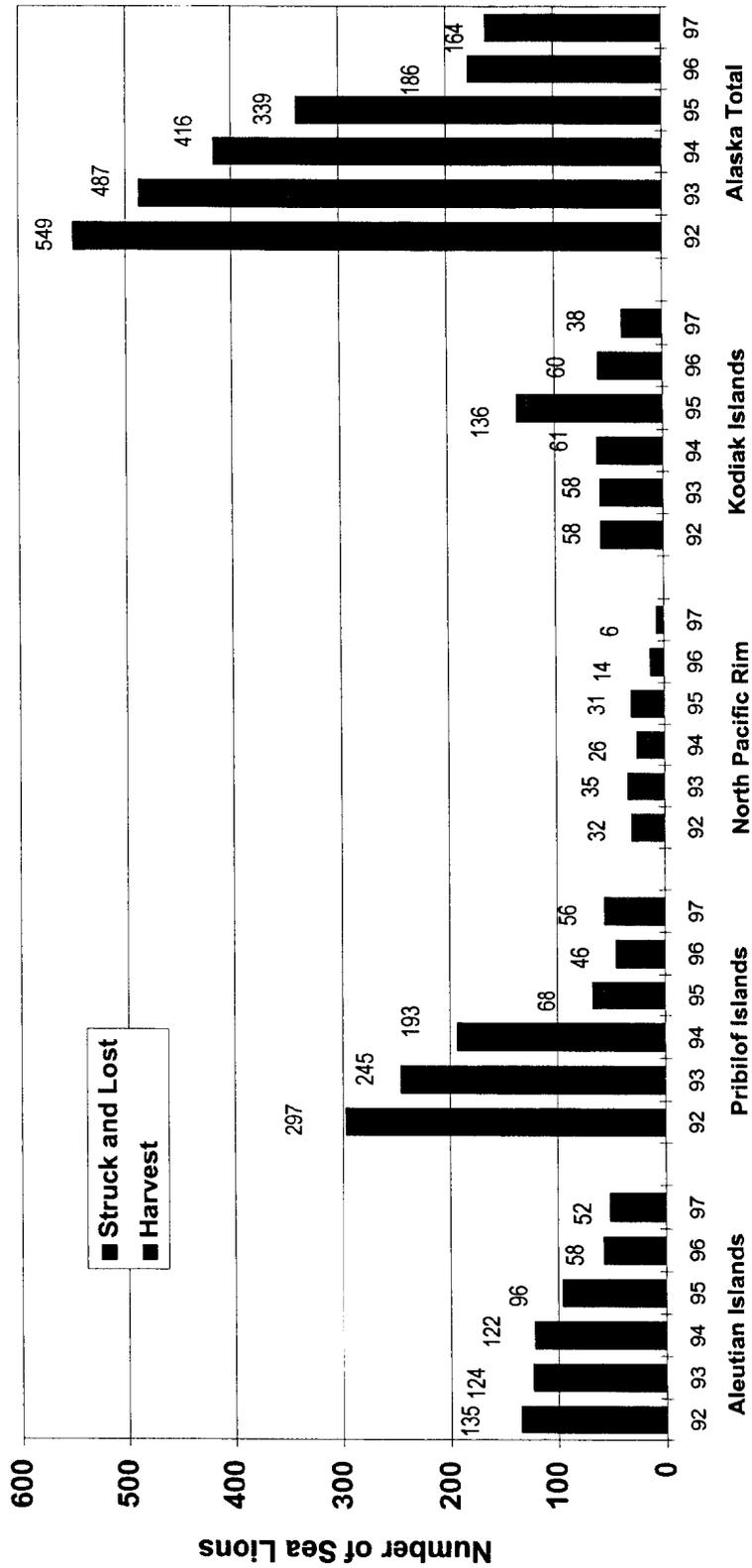
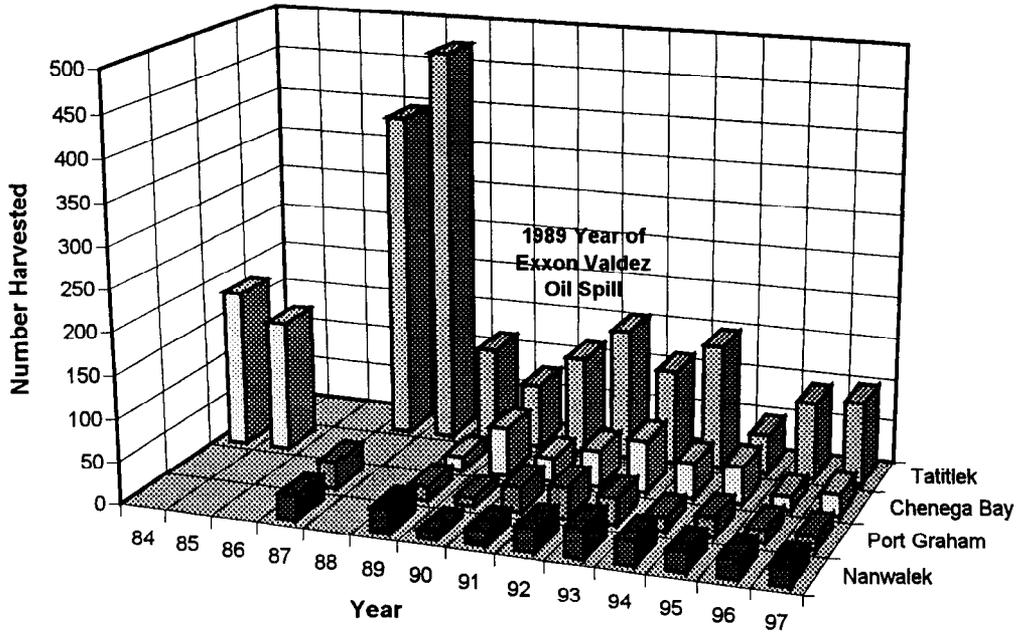


Figure 13. Sea Lion Takes Reported by  
Alaska Native Hunters by Area, 1992-1997

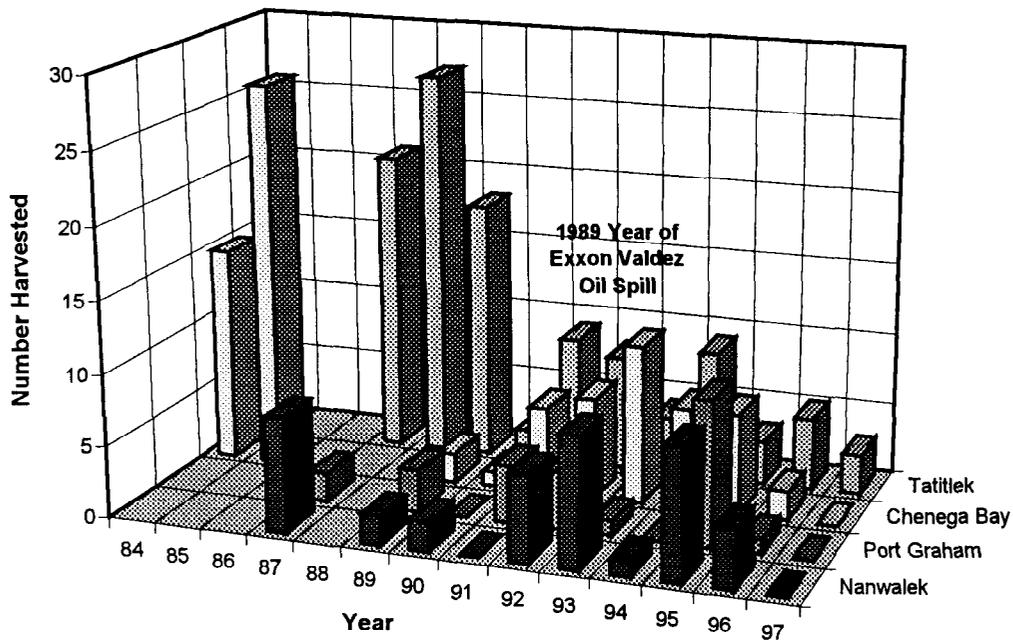


**Figure 14**  
**Change in Harbor Seal Harvests,**  
**North Pacific Rim Communities**



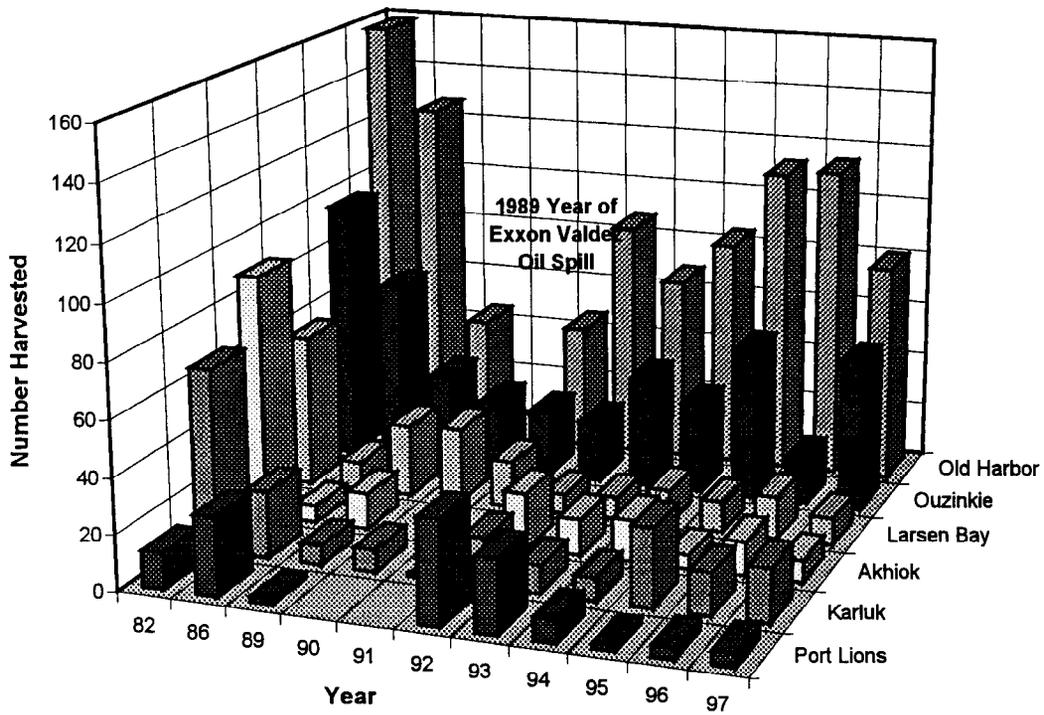
HARBOR SEAL HARVESTS				
Year	Nanwalek	Port Graham	Chenega Bay	Tatitlek
84			186	
85			154	
86				
87	29	32		393
88				473
89	27	17	16	113
90	9	10	57	76
91	18	30	28	114
92	28	36	43	153
93	34	31	61	111
94	29	16	42	146
95	24	23	44	46
96	22	16	16	91
97	20	16	26	97

**Figure 15**  
**Change in Sea Lion Harvests,**  
**North Pacific Rim Communities**



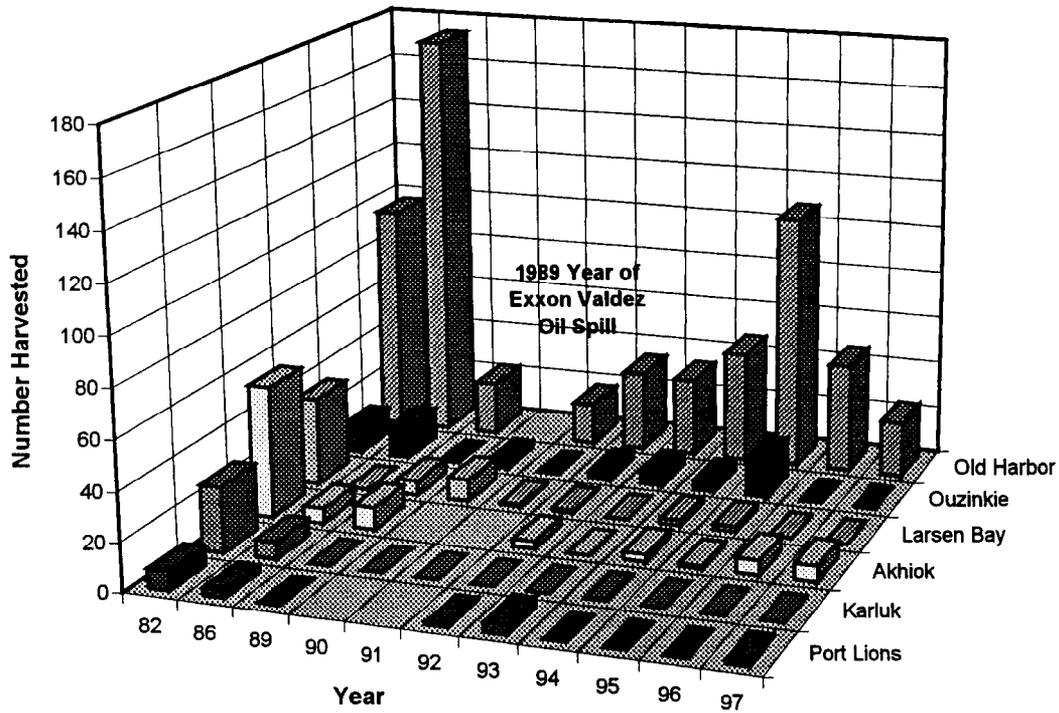
SEA LION HARVESTS				
Year	Nanwalek	Port Graham	Chenega Bay	Tatitlek
84			15	
85			27	
86				
87	8	2		21
88				27
89	2	3	2	18
90	2	0	1	2
91	0	4	6	9
92	6	4	7	8
93	9	1	11	4
94	1	0	7	9
95	9	10	7	3
96	4	1	2	5
97	0	0	0	3

**Figure 16**  
**Change in Harbor Seal Harvests,**  
**Kodiak Island Communities**



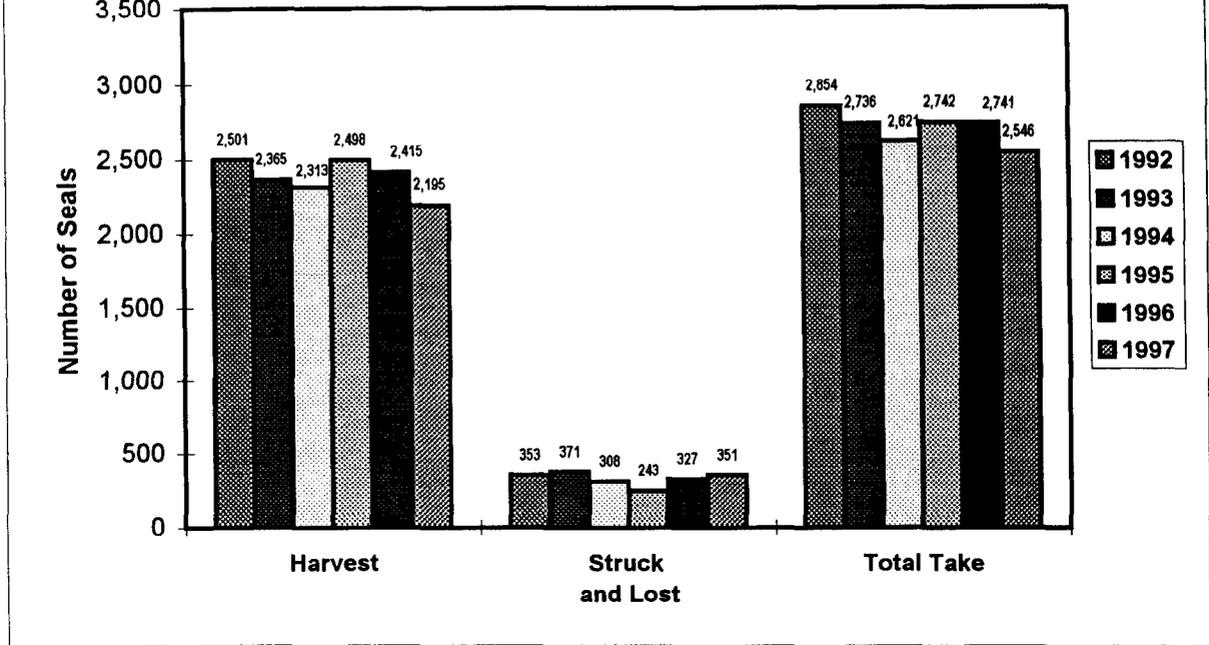
HARBOR SEAL HARVESTS						
	Port Lions	Karluk	Akhiok	Larsen Bay	Ouzinkie	Old Harbor
82	13	66	89	56	96	158
86	28	24	6	10	67	127
89	2	7	13	26	34	45
90		8		27	26	
91		1		17	24	46
92	37	17	20	7	22	87
93	26	10	13	8	41	68
94	8	8	15	13	33	84
95	2	28	5	11	56	112
96	4	15	12	15	17	114
97	5	19	8	10	55	80

**Figure 17**  
**Change in Sea Lion Harvests,**  
**Kodiak Island Communities**

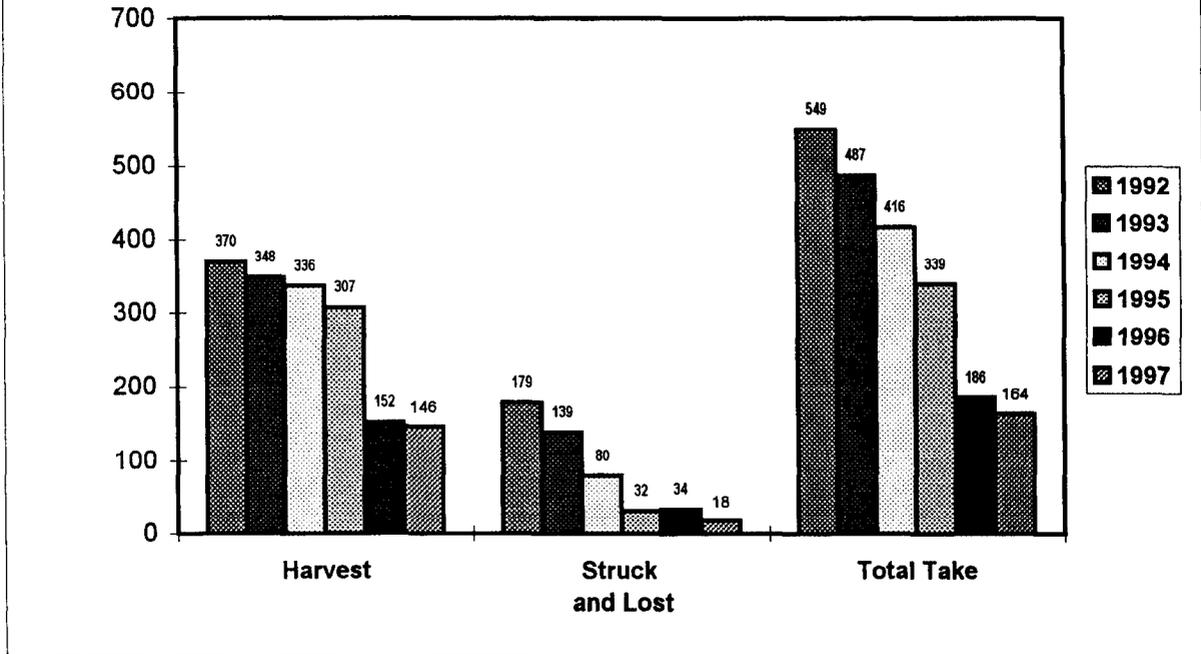


SEA LION HARVESTS						
	Port Lions	Karluk	Akhiok	Larsen Bay	Ouzinkie	Old Harbor
82	8	27	54	36	11	96
86	3	7	6	0	13	173
89	0	0	9	6	0	22
90		0		9	3	
91		0		1	0	17
92	1	0	3	1	3	33
93	4	0	0	0	5	32
94	0	0	3	2	4	46
95	0	0	1	2	16	107
96	0	0	6	0	0	45
97	1	0	7	0	0	23

**Figure 18.**  
**Estimated Subsistence Takes of Harbor Seal**  
**by Alaska Natives, 1992 - 1997**



**Figure 19.**  
**Estimated Subsistence Takes of Sea Lion**  
**by Alaska Natives, 1992 - 1997**



## DISCUSSION

Distinctly different trends characterize the subsistence takes of harbor seals and sea lions over the last six years. At the state level, subsistence takes of harbor seals show no apparent trends up or down, while subsistence takes of sea lions continue to show a steep decline. 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 over the six-year study period. Harvests over a longer time period are presented for selected areas where survey information exists. Some interpretations of the harvest trends are also advanced.

### Harbor Seal Subsistence Trends, 1992-1997

At the state level, there are no apparent trends either up or down in subsistence takes of harbor seal over the last six years. The 1997 harvest (2,195 seals) and total take (2,546 seals) were the lowest since surveys began in 1992. The 1997 struck and lost estimate (351 seals) was in the middle range of estimates in terms of absolute numbers, and was the highest rate (13.8 percent) since 1992 (Table 4, Fig. 17). While low, the 1997 takes of harbor seals were not markedly different from previous years, representing a 7.1 percent decrease from 1996 levels (see Fig. 20). Overall, harbor seal takes continue to be relatively stable from year to year (Fig. 20). The timing of subsistence takes for harbor seal over the past six years also has shown substantial between-year similarities (see Fig. 6)

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. Six years of harbor seal takes from the three stocks are shown in Figure 11. Takes from two stocks (Gulf of Alaska and Bering Sea) were lowest in 1995, and have shown slight increases in 1996 and 1997. Takes from the Southeast stock were highest in

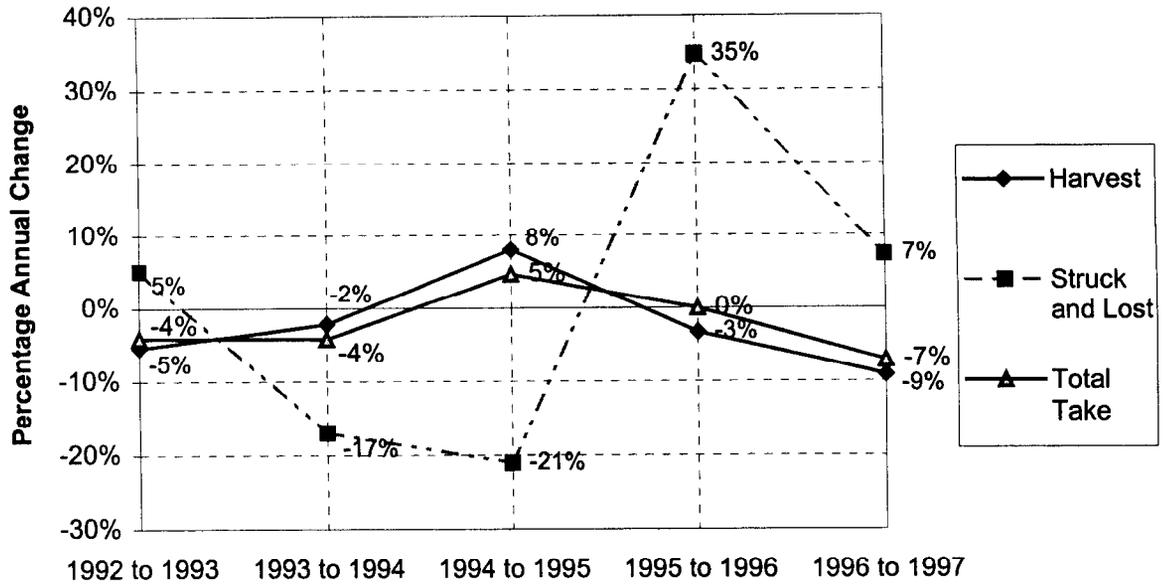
1995 and 1996, and dropped in 1997 to levels similar to 1994. There are no clear trends in takes or clear differences in take trends across the three stocks.

Regional takes are shown in Figure 12. Harbor seal takes and harvests in southeast Alaska in 1997 showed a decline from the previous year, attributed primarily to fewer seals taken in Hoonah and Yakutat, typically the two largest seal-producing communities in the state (see Table 15). By contrast, the 1997 seal takes were the largest ever in Haines and Sitka. It is likely that most between-year differences in southeast communities represent normal variation in yearly subsistence takes, and represent fluctuations due to seasonal hunting conditions, local food needs, local prey availability, and personal circumstances of hunters.

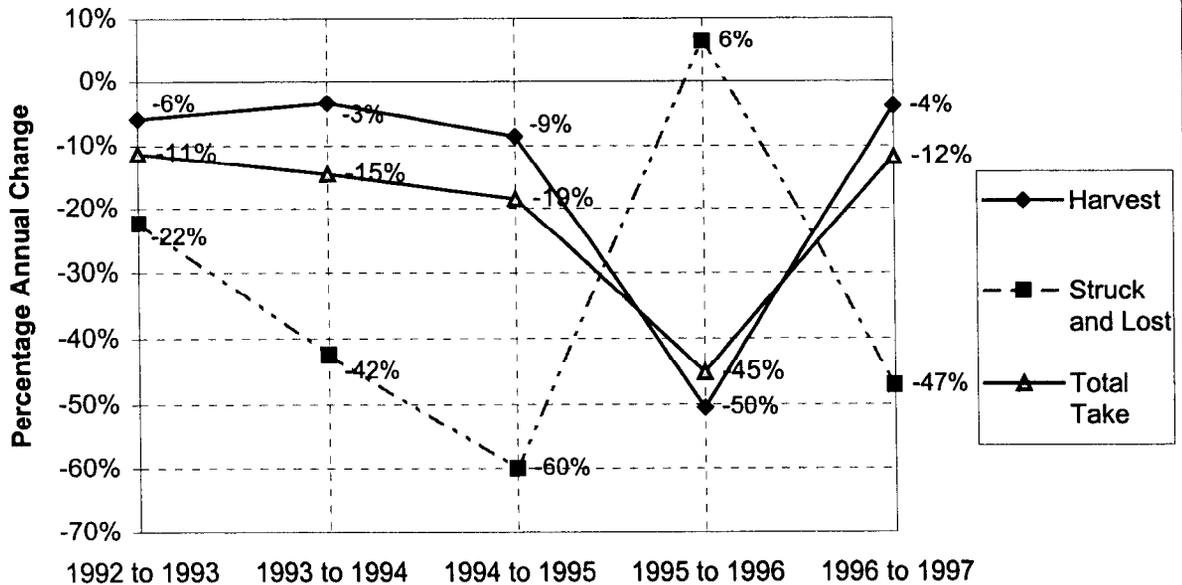
For harvests in two regions -- the North Pacific Rim and Kodiak Island -- a longer time series is available, shown as Figures 14 and 16 (struck and lost numbers are not available prior to 1992, so these figures compare only harvest numbers). In the North Pacific Rim, subsistence harvests of harbor seal have been substantially lower during the most recent six-year survey period compared with harvests recorded prior to 1989, the year of the *Exxon Valdez* oil spill (Fig. 14). 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 Chenega Bay and Tatitlek, but harvests dipped again after 1995. Harbor seal harvests appear more stable in Port Graham and Nanwalek, which were farther from the spill center in Prince William Sound.

In the Kodiak Island area, seal harvests in 1997 (177 seals) were lower than those recorded a decade before -- 478 seals in 1982 and 262 seals in 1986 (Fig. 16). 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 20.**  
**Percentage Annual Changes in Harvest, Struck and Lost, and Total Take, Harbor Seals, 1992 - 1997**



**Figure 21.**  
**Percentage Annual Changes in Harvest, Struck and Lost, and Total Take, Sea Lions, 1992 - 1997**



**Table 14**  
**Subsistence Harbor Seal and Sea Lion Takes by Alaska Natives**  
**By Region, 1992, 1993, 1994, 1995, 1996, and 1997**

Region	1992			1993			1994			1995			1996			1997		
	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total	Harbor Seal Harvested	Harbor Seal Struck and Lost	Total
Southeast Alaska	1476.8	189.5	1666.2	1425.0	190.0	1615.0	1348.5	151.4	1499.9	1719.1	170.9	1890.0	1641.6	216.3	1857.8	1343.4	224.1	1567.4
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	295.0	12.8	307.7
Upper Kenai-Cook Inlet	51.6	0.0	51.6	49.2	5.6	54.8	16.2	0.0	16.2	3.7	0.0	3.7	64.3	8.8	73.1	99.7	8.8	108.5
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	189.8	18.3	208.2
South Alaska Peninsula	115.5	13.1	128.6	100.0	23.1	123.1	98.6	11.1	109.8	117.0	11.1	128.0	86.3	5.0	91.3	68.3	12.1	80.4
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	70.5	6.3	76.9
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	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	107.8	66.3	174.1
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	18.8	2.1	20.9
<b>Alaska Total</b>	<b>2501.0</b>	<b>353.4</b>	<b>2854.4</b>	<b>2365.3</b>	<b>371.1</b>	<b>2736.4</b>	<b>2312.8</b>	<b>308.0</b>	<b>2620.8</b>	<b>2498.5</b>	<b>243.3</b>	<b>2741.8</b>	<b>2414.7</b>	<b>326.6</b>	<b>2741.3</b>	<b>2193.3</b>	<b>350.8</b>	<b>2544.2</b>

Region	1992			1993			1994			1995			1996			1997		
	Sea Lion Harvested	Sea Lion Struck and Lost	Total	Sea Lion Harvested	Sea Lion Struck and Lost	Total	Sea Lion Harvested	Sea Lion Struck and Lost	Total	Sea Lion Harvested	Sea Lion Struck and Lost	Total	Sea Lion Harvested	Sea Lion Struck and Lost	Total	Sea Lion Harvested	Sea Lion Struck and Lost	Total
Southeast Alaska	5.2	1.3	6.4	0.0	1.1	1.1	3.5	1.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
North Pacific Rim	25.1	6.5	31.5	26.2	8.7	34.9	16.6	9.7	26.3	28.4	3.0	31.4	12.4	1.1	13.5	4.5	1.4	5.8
Upper Kenai-Cook Inlet	5.7	3.8	9.5	7.8	3.3	11.1	1.4	0.0	1.4	0.0	0.0	0.0	3.3	0.0	3.3	0.0	0.0	0.0
Kodiak Island	41.5	16.3	57.8	41.5	16.9	58.4	57.1	4.2	61.3	127.9	7.7	135.7	53.9	6.3	60.2	33.3	4.9	38.2
South Alaska Peninsula	2.4	0.0	2.4	4.6	1.2	5.7	4.6	1.1	5.7	8.1	0.0	8.1	3.7	1.3	5.0	8.3	0.0	8.3
Aleutian Islands	104.3	30.9	135.2	99.0	24.8	123.8	101.8	20.5	122.3	85.0	11.1	96.1	46.5	11.3	57.9	50.7	1.3	51.9
Pribilof Islands	176.6	120.2	296.8	165.4	80.0	245.4	149.8	43.5	193.3	57.6	10.3	67.9	32.2	14.2	46.4	45.5	10.4	55.9
South Bristol Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
North Bristol Bay	7.8	0.0	7.8	3.3	3.3	6.5	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	3.6
<b>Alaska Total</b>	<b>368.5</b>	<b>178.9</b>	<b>547.4</b>	<b>347.8</b>	<b>139.3</b>	<b>487.1</b>	<b>336.0</b>	<b>80.1</b>	<b>416.1</b>	<b>307.1</b>	<b>32.1</b>	<b>339.2</b>	<b>152.1</b>	<b>34.1</b>	<b>186.2</b>	<b>145.7</b>	<b>17.9</b>	<b>163.7</b>

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

Table 15  
Subsistence Harbor Seal Takes by Alaska Natives  
By Community, 1992, 1993, 1994, 1995, 1996, and 1997

Community	1992			1993			1994			1995			1996			1997		
	Harbor Seal Harvested	Harbor Seal Struck	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck	Total Harbor Seal Take
<b>SOUTHEAST ALASKA</b>																		
Angoon	125.1	28.9	154.0	56.6	9.9	66.5	66.9	21.1	88.0	80.9	9.7	90.6	71.0	2.0	73.0	51.0	7.1	58.1
Craig	74.2	0.0	74.2	51.1	9.8	60.9	42.7	6.6	49.3	69.4	13.6	83.1	48.2	8.0	56.3	62.0	7.5	69.5
Haines	30.5	7.9	38.4	23.0	2.3	25.3	39.3	2.2	41.5	24.0	9.0	33.0	41.1	3.4	44.6	36.8	10.5	47.3
Hoonah	350.2	24.8	375.0	324.4	35.8	360.2	240.7	15.0	255.8	236.6	19.7	256.3	359.7	48.6	408.3	143.8	9.9	153.8
Hydaburg	30.0	2.1	32.1	14.0	0.0	14.0	10.0	0.0	10.0	6.5	0.0	6.5	15.0	0.0	15.0	11.5	0.0	11.5
Juneau	122.6	7.6	130.2	59.0	21.6	80.6	78.6	13.5	92.1	42.9	1.3	44.2	32.8	1.3	34.1	99.0	0.0	99.0
Kake	173.9	12.3	186.2	100.8	15.2	115.9	99.3	7.4	106.6	72.0	1.5	73.5	86.4	0.0	86.4	68.4	7.6	76.0
Kasaan	0.0	0.0	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Keetchikan	90.2	6.5	96.8	42.4	2.9	45.3	31.4	0.0	31.4	46.4	0.0	46.4	25.0	0.0	25.0	27.4	4.3	31.8
Klawock	39.0	1.4	40.3	39.8	0.0	39.8	71.1	0.0	71.1	263.8	0.0	263.8	69.8	0.0	69.8	94.0	0.0	94.0
Klukwan	8.0	2.0	10.0	1.2	0.0	1.2	3.8	1.3	5.0	35.2	6.4	41.6	6.3	0.0	6.3	1.1	0.0	1.1
Metlakatla	1.3	0.0	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pelican	8.3	1.4	9.7	5.3	1.1	6.4	4.4	1.1	5.6	13.5	0.0	13.5	15.4	0.0	15.4	14.5	0.0	14.5
Petersburg	22.4	2.6	25.0	4.5	4.5	9.0	15.2	1.3	16.4	13.6	1.1	14.7	19.5	2.4	21.9	11.8	4.3	16.2
Saxman	22.2	1.2	23.5	5.6	0.0	5.6	16.5	0.0	16.5	15.9	0.0	15.9	4.9	0.0	4.9	11.0	0.0	11.0
Sitka	124.7	21.4	146.1	109.3	20.6	129.9	110.5	20.1	130.6	93.8	6.3	100.0	126.8	4.1	130.9	150.6	3.7	154.3
Wrangell	6.0	8.0	14.0	19.5	9.0	28.5	101.0	27.0	128.0	89.3	22.8	112.0	79.3	22.2	101.5	68.8	29.2	98.0
Yakutat	248.0	61.3	309.3	568.4	57.4	625.8	417.1	35.0	452.1	615.5	79.6	695.1	640.3	124.1	764.5	491.5	139.9	631.5
<b>NORTH PACIFIC RIM</b>																		
Chenega Bay	42.6	2.3	44.9	60.8	2.2	63.0	42.0	3.9	45.9	44.4	1.6	46.0	16.0	3.0	19.0	25.7	0.0	25.7
Cordova	103.8	8.8	112.5	147.4	5.5	152.9	135.8	9.1	144.9	83.4	2.0	85.4	122.2	8.6	130.8	120.8	0.0	120.8
Nanwalek	27.9	0.0	27.9	33.9	3.2	37.1	29.0	4.6	33.7	23.6	0.0	23.6	22.4	0.0	22.4	20.2	0.0	20.2
Port Graham	36.2	4.7	40.8	30.6	3.2	33.7	15.5	5.2	20.7	23.0	0.0	23.0	15.5	2.2	17.7	15.8	3.2	19.0
Seldovia	12.4	0.0	12.4	7.9	4.9	12.8	8.0	0.0	8.0	4.0	0.0	4.0	3.0	0.0	3.0	2.8	2.8	5.5
Seward	2.0	0.0	2.0	0.0	0.0	0.0	5.0	0.0	5.0	10.9	5.5	16.4	5.6	0.0	5.6	0.0	0.0	0.0
Tattletk	152.9	17.7	170.6	110.8	15.5	126.4	145.9	30.9	176.8	46.1	2.6	48.7	90.8	3.8	94.6	97.2	6.8	104.0
Valdez	0.0	0.0	0.0	21.0	4.0	25.0	30.0	3.0	33.0	16.8	0.0	16.8	13.5	4.5	18.0	12.5	0.0	12.5

Table 15 (Continued)  
 Subsistence Harbor Seal Takes by Alaska Natives  
 By Community, 1992, 1993, 1994, 1995, 1996 and 1997

Community	1992			1993			1994			1995			1996			1997		
	Harbor Seal Struck	Harbor Seal	Total	Harbor Seal Struck	Harbor Seal	Total	Harbor Seal Struck	Harbor Seal	Total	Harbor Seal Struck	Harbor Seal	Total	Harbor Seal Struck	Harbor Seal	Total	Harbor Seal Struck	Harbor Seal	Total
<b>UPPER KENAI-COOK INLET</b>																		
Anchorage	17.1	0.0	17.1	24.4	5.6	30.0	4.2	0.0	4.2	3.7	0.0	3.7	28.9	6.2	35.1	23.6	1.2	24.8
Homer	-	-	-	4.8	0.0	4.8	12.0	0.0	12.0	0.0	0.0	0.0	10.5	1.5	12.0	41.1	2.6	43.7
Kenai	33.3	0.0	33.3	20.0	0.0	20.0	-	-	-	-	-	-	22.9	1.1	24.0	35.0	5.0	40.0
Tyonek	1.1	0.0	1.1	-	-	-	-	-	-	-	-	-	2.0	0.0	2.0	0.0	0.0	0.0
<b>KODIAK ISLAND</b>																		
Aktiook	20.0	3.0	23.0	13.3	0.0	13.3	14.5	0.0	14.5	5.0	0.0	5.0	12.0	1.0	13.0	7.9	0.0	7.9
Karluk	16.5	1.5	18.0	10.0	1.3	11.3	7.5	0.0	7.5	28.1	6.8	34.9	15.1	0.0	15.1	19.0	0.0	19.0
Kodiak City	36.9	0.0	36.9	6.0	1.0	7.0	7.6	0.0	7.6	8.8	0.0	8.8	9.0	0.0	9.0	13.0	0.0	13.0
Larsen Bay	6.5	0.0	6.5	7.7	5.5	13.2	13.4	2.2	15.7	11.0	0.0	11.0	15.0	0.0	15.0	9.8	4.2	13.9
Old Harbor	86.8	5.3	92.1	67.6	2.7	70.3	83.7	1.3	85.0	112.0	2.4	114.4	113.5	1.3	114.8	80.0	4.8	84.8
Ouzinkle	21.8	1.1	23.0	41.2	8.7	49.8	33.4	0.0	33.4	56.1	0.0	56.1	16.7	2.6	19.3	55.2	9.4	64.6
Port Lions	36.9	2.2	39.1	26.0	1.0	27.0	8.0	0.0	8.0	2.0	0.0	2.0	4.0	0.0	4.0	5.0	0.0	5.0
<b>SOUTH ALASKA PENINSULA</b>																		
Chignik Bay	2.4	1.2	3.6	6.3	5.0	11.3	3.4	0.0	3.4	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0
Chignik Lagoon	4.0	0.0	4.0	4.3	1.1	5.3	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	2.7
Chignik Lake	8.3	2.1	10.3	15.2	5.5	20.8	20.8	1.3	22.1	3.2	1.1	4.3	3.5	0.0	3.5	2.2	1.1	3.3
False Pass	18.0	0.0	18.0	19.0	0.0	19.0	12.6	2.1	14.7	25.9	1.2	27.1	13.9	0.0	13.9	8.0	0.0	8.0
Ivanof Bay	10.0	1.0	11.0	16.3	4.7	21.0	12.0	1.3	13.3	18.7	2.7	21.3	13.2	0.0	13.2	9.0	1.8	10.8
King Cove	26.0	6.7	32.7	12.8	3.5	16.3	20.9	1.1	22.0	49.0	3.0	52.0	14.0	5.0	19.0	16.9	2.1	19.1
Nelson Lagoon	0.0	0.0	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perryville	8.9	2.2	11.1	12.8	2.1	15.0	21.1	0.0	21.1	11.0	3.1	14.1	20.5	0.0	20.5	21.7	5.7	27.4
Sand Point	37.9	0.0	37.9	13.3	1.2	14.4	7.8	4.3	12.1	9.2	0.0	9.2	20.2	0.0	20.2	9.1	0.0	9.1
<b>ALEUTIAN ISLANDS</b>																		
Aktutan	12.9	4.3	17.1	15.6	4.5	20.1	13.8	3.5	17.3	7.0	0.0	7.0	8.0	7.0	15.0	14.0	3.8	17.8
Atka	28.6	9.9	38.5	32.7	0.0	32.7	73.7	8.7	82.3	42.5	0.0	42.5	22.7	2.2	24.8	26.0	1.5	27.5
Nikolski	5.8	3.5	9.3	4.0	1.0	5.0	6.0	0.0	6.0	0.0	0.0	0.0	4.0	1.0	5.0	4.0	1.0	5.0
Unalaska	47.0	3.7	50.8	32.7	9.9	42.6	31.4	10.5	41.8	37.4	9.7	47.1	20.3	5.1	25.4	26.5	0.0	26.5

Table 15 (Continued)  
 Subsistence Harbor Seal Takes by Alaska Natives  
 By Community, 1992, 1993, 1994, 1995, 1996, and 1997

Community	1992			1993			1994			1995			1996			1997		
	Harbor Seal Harvested	Harbor Seal Struck	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck	Total Harbor Seal Take	Harbor Seal Harvested	Harbor Seal Struck	Total Harbor Seal Take
<b>PRILOF ISLANDS</b>																		
St. George	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
St. Paul	2.3	1.2	3.5	2.3	1.2	3.5	7.3	0.0	7.3	2.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
<b>SOUTH BRISTOL BAY</b>																		
Egegik	3.3	14.3	17.7	7.7	3.3	11.0	12.8	0.0	12.8	1.4	0.0	1.4	2.8	0.0	2.8	1.6	0.0	1.6
King Salmon	10.2	0.0	10.2	21.3	10.7	32.0	17.0	4.5	21.5	13.0	3.0	16.0	9.5	2.4	11.9	9.7	0.0	9.7
Levelock	10.8	0.0	10.8	2.7	5.4	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naknek	26.6	7.0	33.6	2.7	0.0	2.7	21.4	8.3	29.7	34.8	15.3	50.2	16.2	7.5	23.7	24.8	6.5	31.2
Pilot Point	5.4	4.3	9.7	2.2	0.0	2.2	3.1	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Port Heiden	40.5	36.0	76.5	30.7	19.9	50.6	63.0	45.3	108.3	17.0	10.0	27.0	34.3	34.3	68.6	69.2	50.0	119.2
South Naknek	2.3	6.9	9.2	6.4	18.0	24.4	4.4	1.1	5.5	2.1	0.0	2.1	1.0	0.0	1.0	2.5	9.8	12.3
<b>NORTH BRISTOL BAY</b>																		
Aleknagik	0.0	3.6	3.6	0.0	0.0	0.0	0.0	3.3	3.3	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3
Dillingham	29.2	3.8	32.9	18.0	4.2	22.2	16.2	0.0	16.2	13.3	0.0	13.3	0.0	0.0	0.0	1.2	0.0	1.2
Manokotak	4.9	3.8	8.7	3.2	0.0	3.2	0.0	0.0	0.0	9.3	2.4	11.7	2.4	3.6	6.0	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	3.3	0.0	3.3	3.9	0.0	3.9	6.7	0.0	6.7
Twinn Hills	-	-	-	-	-	-	-	-	-	-	-	-	23.3	6.5	29.8	8.4	2.1	10.5

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

Table 16  
 Subsistence Sea Lion Takes by Alaska Natives  
 By Community, 1992, 1993, 1994, 1995, 1996, and 1997

Community	1992			1993			1994			1995			1996			1997		
	Sea Lion Struck and Lost	Sea Lion Take	Total															
<b>SOUTHEAST ALASKA</b>																		
Angoon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Craig	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Haines	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hoonah	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydaburg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Juneau	0.0	0.0	0.0	1.1	0.0	1.1	1.1	0.0	1.1	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	1.2	0.0	1.2	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kasaan	0.0	0.0	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ketchikan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Klawock	1.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Klukwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Metlakatla	0.0	0.0	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pelican	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petersburg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Saxman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sitka	3.8	1.3	5.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
Wrangell	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yakutat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>NORTH PACIFIC RIM</b>																		
Chenega Bay	6.9	1.2	8.1	11.1	6.6	17.7	6.6	0.0	6.6	6.6	0.0	6.6	0.0	0.0	2.0	0.0	0.0	0.0
Cordova	0.0	0.0	0.0	1.5	0.0	1.5	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Nanwalek	6.3	0.0	6.3	8.5	1.1	9.5	1.2	2.3	3.5	9.2	0.0	9.2	4.3	1.1	5.3	0.0	0.0	0.0
Port Graham	3.5	1.2	4.7	1.1	0.0	1.1	0.0	0.0	0.0	10.0	2.0	12.0	1.1	0.0	1.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Seward	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tatitlek	8.3	4.2	12.5	4.1	1.0	5.2	8.8	7.4	16.2	2.6	0.0	2.6	5.0	0.0	5.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 16 (Continued)  
 Subsistence Sea Lion Takes by Alaska Natives  
 By Community, 1992, 1993, 1994, 1995, 1996 and 1997

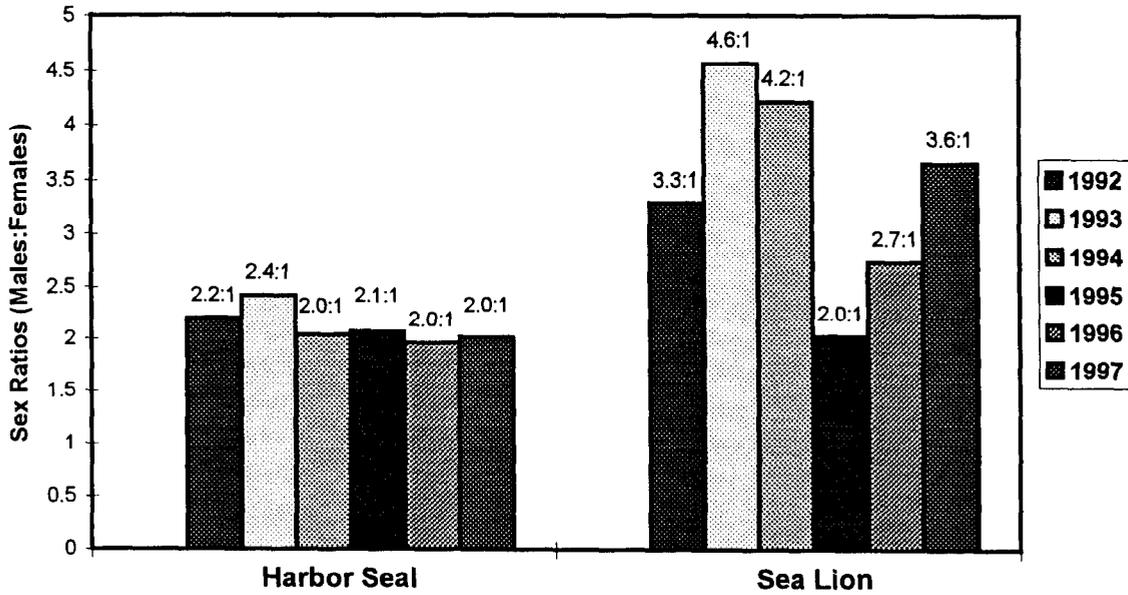
Community	1992			1993			1994			1995			1996			1997			1997 Total Sea Lion Take
	Sea Lion Struck and Lost	Sea Lion Take	Total																
<b>UPPER KENAI-COOK INLET</b>																			
Anchorage	5.7	3.8	9.5	7.8	3.3	11.1	1.4	0.0	1.4	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	
Homer	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Kenai	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	2.3	0.0	2.3	0.0	0.0	0.0	0.0	
Tyonek	0.0	0.0	0.0	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
<b>KODIAK ISLAND</b>																			
Akhiok	3.0	1.0	4.0	0.0	0.0	0.0	3.2	0.0	3.2	1.0	1.0	2.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Kodiak City	0.0	0.0	0.0	0.0	12.7	12.7	1.1	0.0	1.1	2.2	0.0	2.2	3.0	0.0	3.0	3.0	0.0	3.0	
Larsen Bay	1.1	0.0	1.1	0.0	0.0	0.0	2.2	0.0	2.2	2.0	1.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	
Old Harbor	32.9	13.2	46.1	32.1	1.0	33.2	46.2	1.3	47.5	107.1	5.7	112.9	44.9	5.3	50.2	22.7	3.6	23.3	
Ouzinkie	3.4	0.0	3.4	5.4	2.2	7.6	4.4	2.9	7.3	15.6	0.0	15.6	0.0	0.0	0.0	0.0	0.0	0.0	
Port Lions	1.1	2.2	3.3	4.0	1.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	
<b>SOUTH ALASKA PENINSULA</b>																			
Chignik Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Chignik Lagoon	0.0	0.0	0.0	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Chignik Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
False Pass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Ivanof Bay	0.0	0.0	0.0	2.3	1.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	2.4	1.8	0.0	1.8	
King Cove	1.3	0.0	1.3	1.2	0.0	1.2	3.2	1.1	4.3	5.0	0.0	5.0	0.0	0.0	0.0	4.2	0.0	4.2	
Nelson Lagoon	0.0	0.0	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Perryville	1.1	0.0	1.1	0.0	0.0	0.0	1.4	0.0	1.4	3.1	0.0	3.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
<b>ALEUTIAN ISLANDS</b>																			
Aktutan	25.7	4.3	30.0	14.5	8.9	23.4	12.7	3.5	16.2	6.0	0.0	6.0	11.0	5.0	16.0	6.4	0.0	6.4	
Atka	28.6	9.9	38.5	25.1	0.0	25.1	45.5	8.7	54.2	40.0	0.0	40.0	17.3	0.0	17.3	12.2	0.0	12.2	
Nikolski	8.2	0.0	8.2	6.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	3.0	3.0	0.0	3.0	
Unalaska	41.8	16.7	58.5	53.4	15.9	69.3	43.6	8.4	51.9	39.0	11.1	50.1	15.2	6.3	21.6	29.1	1.3	30.3	

Table 16 (Continued)  
 Subsistence Sea Lion Takes by Alaska Natives  
 By Community, 1992, 1993, 1994, 1995, 1996 and 1997

Community	1992			1993			1994			1995			1996			1997		
	Sea Lion Struck and Lost	Sea Lion Take	Total															
<b>PRILOF ISLANDS</b>																		
St. George	14.9	55.0	69.9	3.7	14.8	18.6	2.8	17.1	19.9	4.0	4.0	8.0	4.0	4.0	8.0	19.6	8.1	27.7
St. Paul	161.7	65.2	226.8	161.7	65.2	226.8	147.0	26.4	173.4	53.6	6.3	59.9	28.2	10.2	38.4	25.9	2.3	28.2
<b>SOUTH BRISTOL BAY</b>																		
Egegik	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
King Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Levelock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naknek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pilot Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Port Heiden	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South Naknek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>NORTH BRISTOL BAY</b>																		
Aleknagik	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Clark's Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dillingham	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Manokotak	3.9	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Togiak	3.9	0.0	3.9	3.3	3.3	6.5	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	3.6
Twin Hills	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

**Figure 22.**  
**Sex Ratios (Males:Females)**  
**of Harbor Seal and Sea Lion Harvests**  
**Reported by Alaska Native Hunters, 1992 - 1997**



**Figure 23.**  
**Age Structure (Pups, Juveniles, Adults)**  
**of Harbor Seal and Sea Lion Harvests**  
**Reported by Alaska Native Hunters, 1992 - 1997**

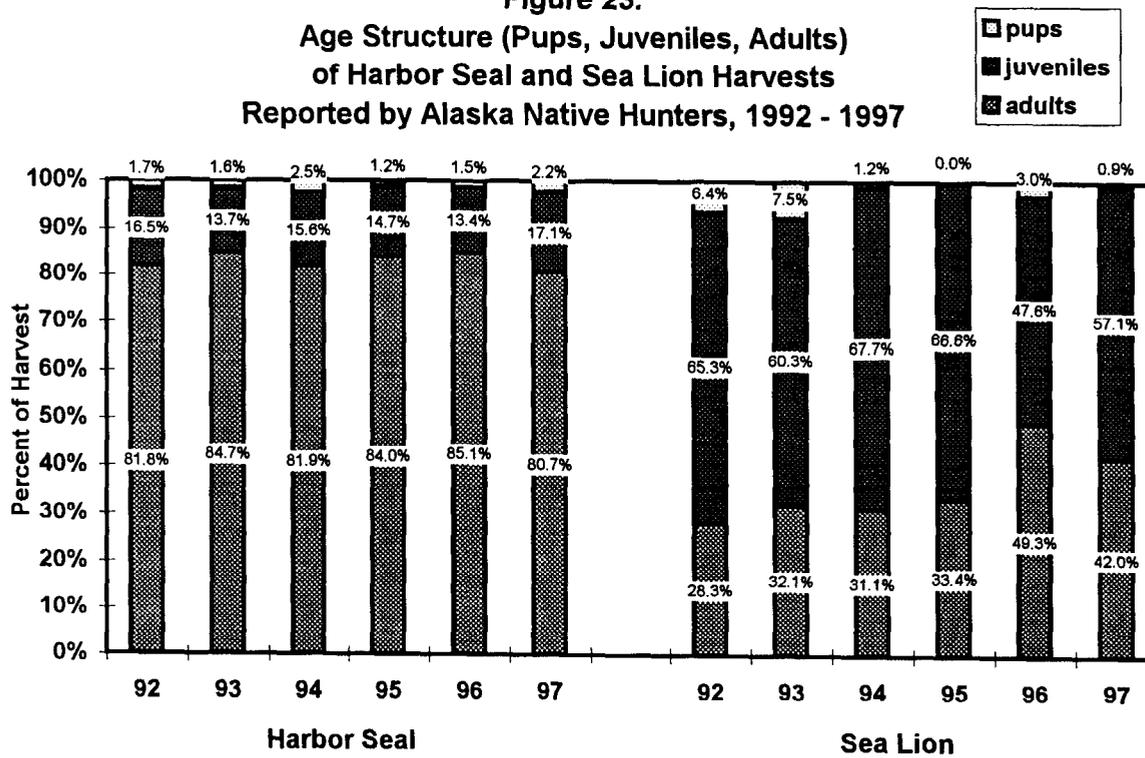


Figure 24. Percent of Harbor Seal Harvests Reported as Male Seals by Hunters, 1992 - 1997

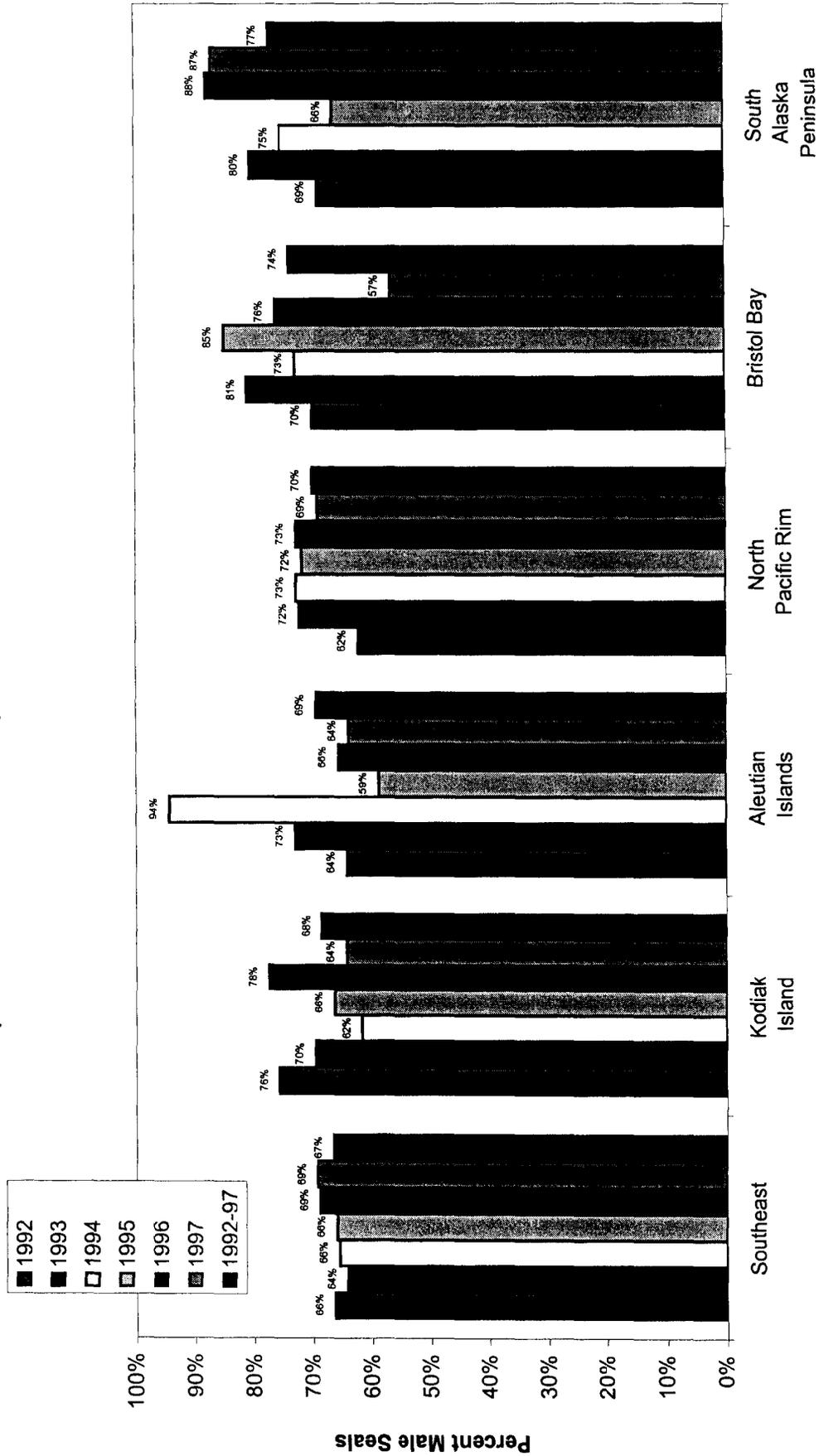


Figure 26. Percent of Harbor Seal Harvests Reported as Juvenile Seals by Hunters, 1992 - 1997

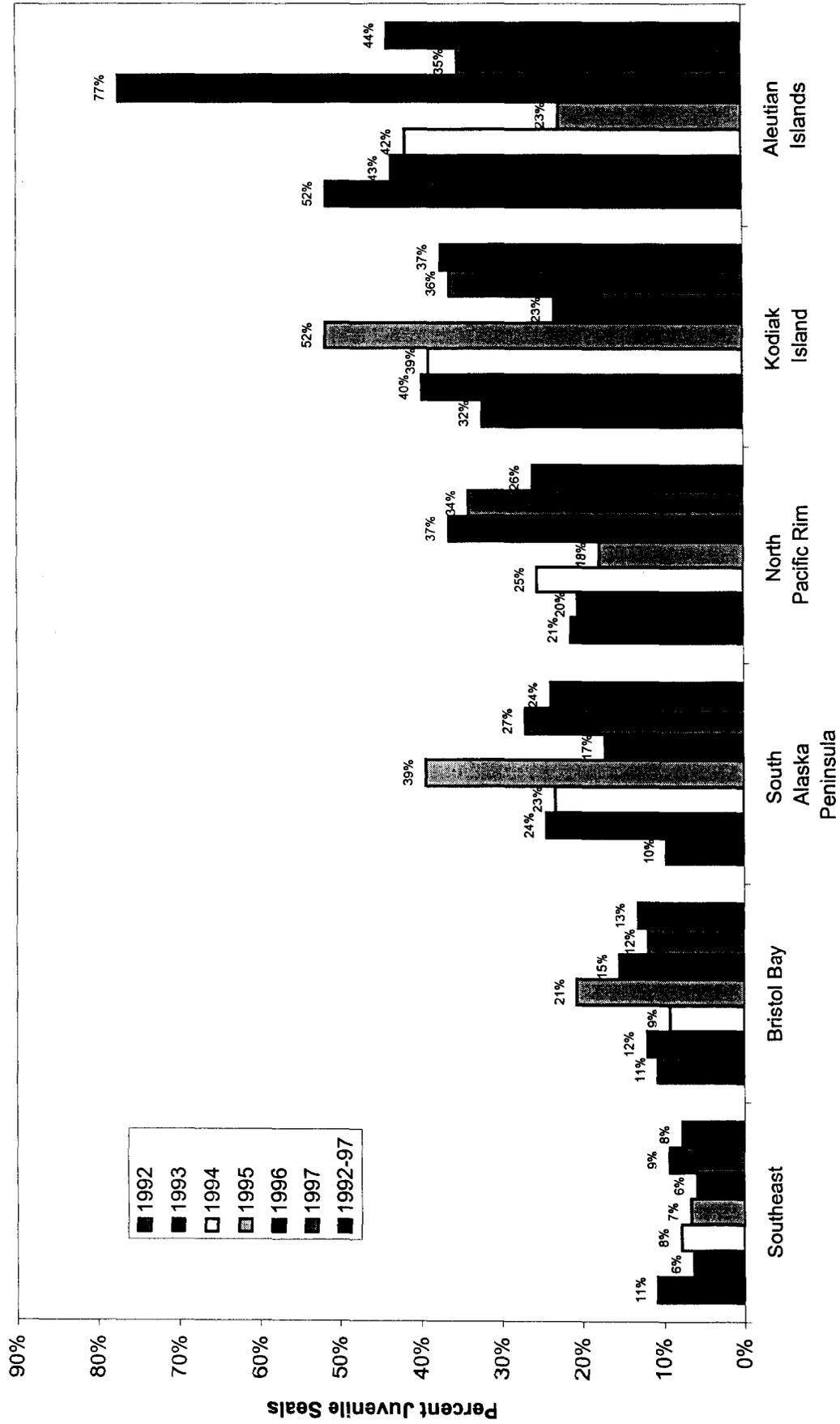
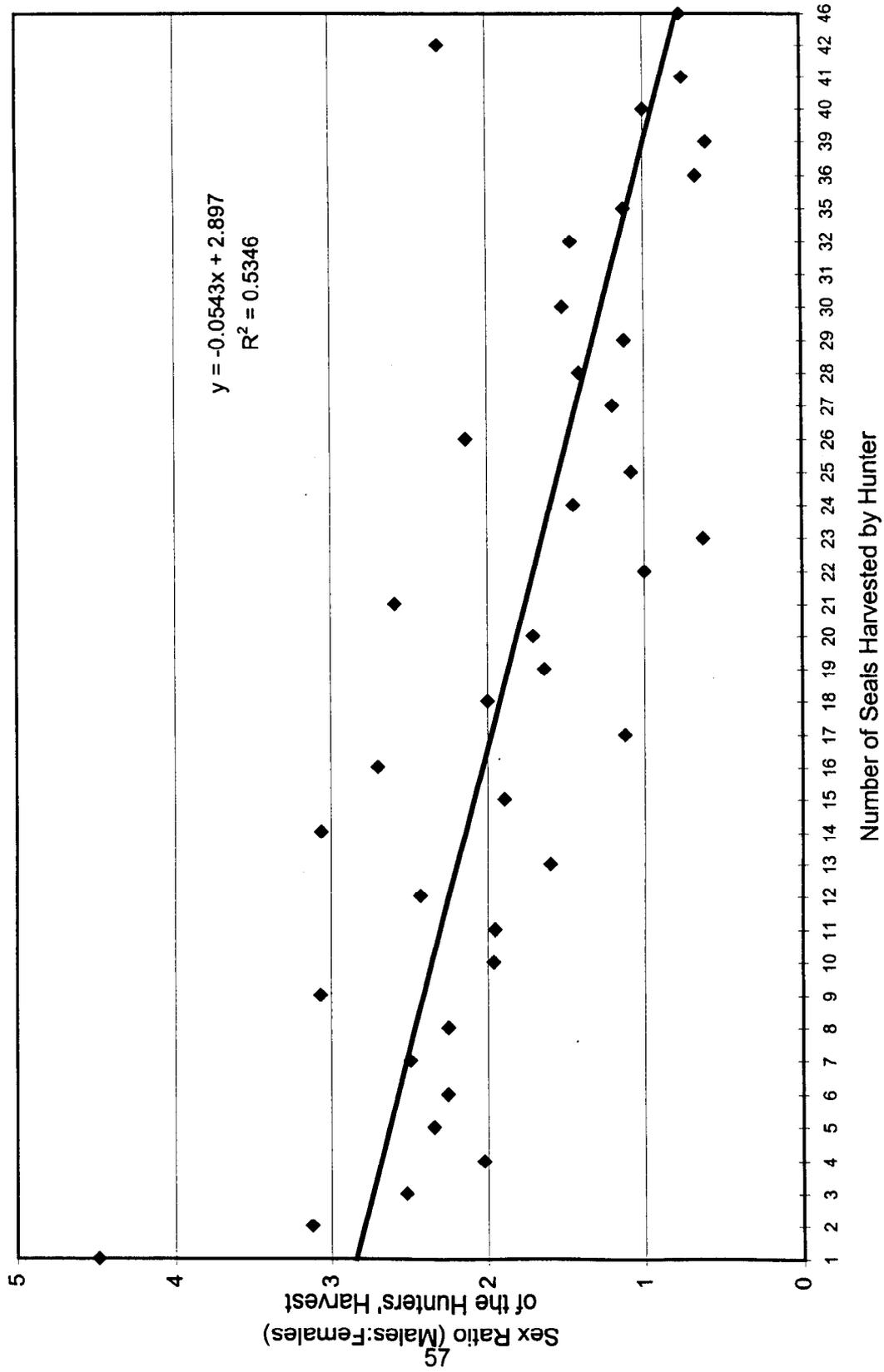




Fig. 25. Harbor Seal Sex Ratio (Males to Females)  
by Hunter's Harvest Amount, 1992-96





The longer time series represented by the North Pacific Rim and Kodiak Island areas provide a cautionary note about interpreting the apparent “stability” to subsistence patterns described over the most recent six-year period. 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 1992-96 in those areas may represent observations at relatively low points of longer-term harvest cycles. The ten-year study period may better represent the potential range of subsistence take levels than the six-year period in these areas. Should conditions return to those of a decade earlier, subsistence harvests of harbor seal may increase as well.

In addition to relatively stable subsistence takes of harbor seal from 1992-97, there has been remarkable consistency in the reported age and sex composition of the statewide harbor seal harvest. Figures 22 and 23 compare statewide patterns in the age and sex composition of the subsistence harvests of harbor seals over the six-year survey period. 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 between all six survey years for harbor seal -- 2.2:1 (1992), 2.4:1 (1993), 2.0:1 (1994), 2.1:1 (1995), 2.0:1 (1996), and 2.0:1 (1997) (see Fig. 22). At the statewide level, age composition also is similar between years (Fig. 23): hunters continued to report harvesting primarily adult harbor seals (from 81 to 85 percent of the annual harvest), with smaller proportions of juvenile seals (13 to 17 percent) and pups (1 to 3 percent).

Figures 24 and 26 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, shown in Fig. 24. Counting harvested animals whose sex was reported between 1992-97, all regions showed more males to females harvested -- Southeast (67 percent males), North Pacific Rim (70 percent males), Kodiak Island (68 percent males), South Alaska Peninsula (77 percent males), Aleutian Islands (79

percent males), and Bristol Bay (74 percent males; this combines north and south Bristol Bay to increase the number of observations).

Why substantially more males than females are consistently taken across years and regions is a question, when it is probably the case that slightly more females than males are present in the general harbor seal population (Pitcher and Calkins 1979; Hoover 1988:129-130). A number of variables probably contribute to the predominance of males over females in the subsistence harvest of harbor seals across regions and years. Some hunters report a selection preference for males over females when hunting during late spring through summer, to avoid taking females carrying large fetuses or nursing pups (Wolfe et al. 1994). However, other hunters state a preference for females over males, because of the quality of meat and skin. The higher number of males harvested more likely reflects the greater availability of males in the groups of animals hunted, with female seals being "harder to get" in comparison with male seals. In some areas, hunters report that groups of males segregate from females during the year – for instance, in the central southeast archipelago, older males are found feeding outside of bays while females and their young are found feeding in shallower inside waters (Wolfe et al. 1994). The greater proportion of harvested males may reflect the sex composition of segregated seal groups which hunters encounter. Of perhaps greater importance, sex-specific behavioral differences may account for the sex ratios of kills, with female seals being more cautious in comparison with male seals who may be bolder or more curious. In some hunting contexts, hunters select a seal swimming among groups of animals reacting to the presence of the hunter. In these situations, female seals as a whole may be more elusive than male seals when disturbed, presenting comparatively fewer or more difficult targets. Statistical support for females being "harder-to-get" than males is presented in Figure 25, which shows a strong negative relationship between the male:female sex ratio of a hunter's annual harvest and the number of seals in the hunter's annual harvest. The harvests of hunters who

take comparatively few seals are disproportionately male over female -- the first seal a hunter harvests is 2.8 times more likely to be a male than a female. As a hunter's seal harvest increases, the sex ratio decreases, until at about 35 seals (as projected by the linear regression model) the male:female sex ratio approaches a balance. This suggests that as a hunter works to take the next available seals, and increasingly harvests seals which are "harder to get", females become an increasing part of the hunter's harvest.

The age composition of the subsistence harvest of harbor seals varies substantially between regions and presents a more complex picture than sex ratios (Fig. 26). Since 1992, hunters have been asked to classify the seal harvest into three categories -- "pups", "juveniles", and "adults". Probably most hunters answer this question using size and behavior as main indicators, so that the smallest seals with their mothers are classified as "pups", small-sized seals are classified as "juveniles", and medium to large seals are classified as adults. The hunters' category of "juveniles" probably includes yearlings (6 - 17.9 months), which are about 30 percent of adult weight, and perhaps include some 2-year-old seals (18 - 29.9 months) and 3-year-old seals (30 - 41.9 months), which have gained on average about 50 percent of adult weight (Bigg 1969: 21; Pitcher and Caulkins 1979:30).

Based on hunter reports, the percentages of juveniles in the harvest differed markedly between regions (Fig. 26). Of all the seals harvested between 1992-97 in the Southeast Region, only 8 percent were reported to be juvenile seals (with a range of 6 to 11 percent annually). This differs substantially from reported harvests during 1992-97 in the Kodiak Islands (37 percent juveniles, with a range from 23 to 52 percent annually) and the Aleutian Islands (44 percent juveniles, with a range from 23 to 77 percent annually). The age composition of harvests for the North Pacific Rim (26 percent juveniles) and the South Alaska Peninsula (24 percent juveniles) fall between the

Southeast and Kodiak-Aleutian regions. The age composition from Bristol Bay (13 percent juveniles) is most similar to that from the Southeast Region.

There are a number of factors that may affect regional age compositions, including preferences by hunters for juveniles or adults, the age composition of seal groups which are hunted, and the age composition of the regional seal population. The interplay of factors must be speculative until additional research is conducted. Based on interviews with hunters, there is little to suggest that hunter preferences could account for such large differences between regions, or that hunters' interpretations of the undefined term "juvenile" differs substantially across regions. The regional differences in age composition of harvested seals more likely reflect differences in the age compositions of seal populations accessible to hunters. If this is the case, hunters in the Kodiak Islands and Aleutian Islands are encountering seal groups with substantially greater proportions of small, young seals than are hunters in Southeast Alaska. Under these circumstances, more small, young seals are being harvested.

Recent trend counts suggest that Southeast seal populations are relatively abundant and stable or increasing, while Gulf of Alaska populations are depressed, with declines slowing and possibly stopped or reversed in some areas (Lewis, Pendleton, Pitcher, and Wynne 1996:21). The age differences in regional subsistence harvests reported by hunters may be consistent with these reported population trends. The older ages of harvested seals in the Southeast region, as reported by subsistence hunters, may be characteristic of relatively large and stable seal populations with proportionately larger older age classes in the population. The younger ages of seals harvested in the Kodiak and Aleutian regions may be characteristic of depressed populations which are attempting to rebuild, with proportionately larger young age classes. The ages of harvested seals in the North Pacific Rim and South Alaska Peninsula region suggest population compositions intermediate between the Southeast-Bristol Bay and Kodiak-Aleutian seal populations. These interpretations of the age findings are speculative at

this point without additional observations. The age composition information reported by hunters may provide a useful biological marker, if the information can be linked with population dynamics of harbor seals.

#### Sea Lion Subsistence Trends, 1992-97

In contrast with the stability in harbor seal takes, subsistence takes of sea lions by Alaska Natives have shown a sharp decline at the state level over the past five years – 549 (1992), 487 (1993), 416 (1994), 339 (1995), 186 (1996), and 164 (1997) (Figs. 13 and 19). Overall, subsistence takes of sea lions have declined by 70.1 percent between 1992 and 1997 (a mean annual rate of -21.5 percent). This decrease has not been consistent -- sea lion takes decreased at annual rates of between 11 percent to 19 percent from 1992 to 1995, 47 percent from 1995 to 1996, and 10 percent from 1996 to 1997 (Fig. 21). Nor are declines the same for harvests and struck and lost animals. Sea lion harvests have declined by 60.5 percent from 1992 to 1997 (a mean annual rate of -17.0 percent), while struck and lost animals have declined by 89.9 percent from 1992 to 1997 (a mean annual rate of -36.5%) (see also Fig. 21).

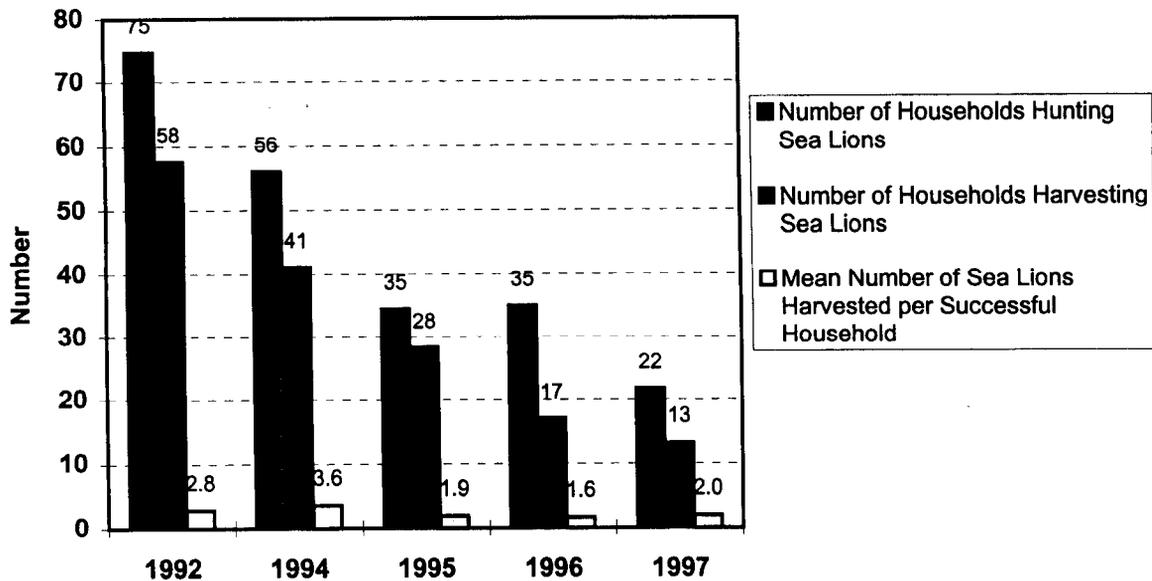
At the regional level, notable declines in sea lion takes have been reported by hunters from the Pribilof Islands (see Fig. 13), where total sea lion takes fell from 297 to 56 animals during 1992 to 1997 (a decline of 81.1 percent). Similarly, takes in the North Pacific Rim, fairly stable from 1992 to 1995, fell from 31 animals (1995) to only 6 animals (1997), a decrease of 80.9 percent in two years. Sea lion takes in the Aleutian Islands area have decreased from 135 to 52 animals during 1992 to 1997 (a 61.5 percent decrease). Definite trends in sea lion takes are more difficult to see for the Kodiak Island areas, but the 1997 take was the lowest reported in six years (Fig. 13).

In the North Pacific Rim and Kodiak Island regions, longer time series are available which also show declines in sea lion harvests (see Figs. 15 and 17). Documented sea lion harvests in Tatitlek and Chenega Bay ranged as high as 27

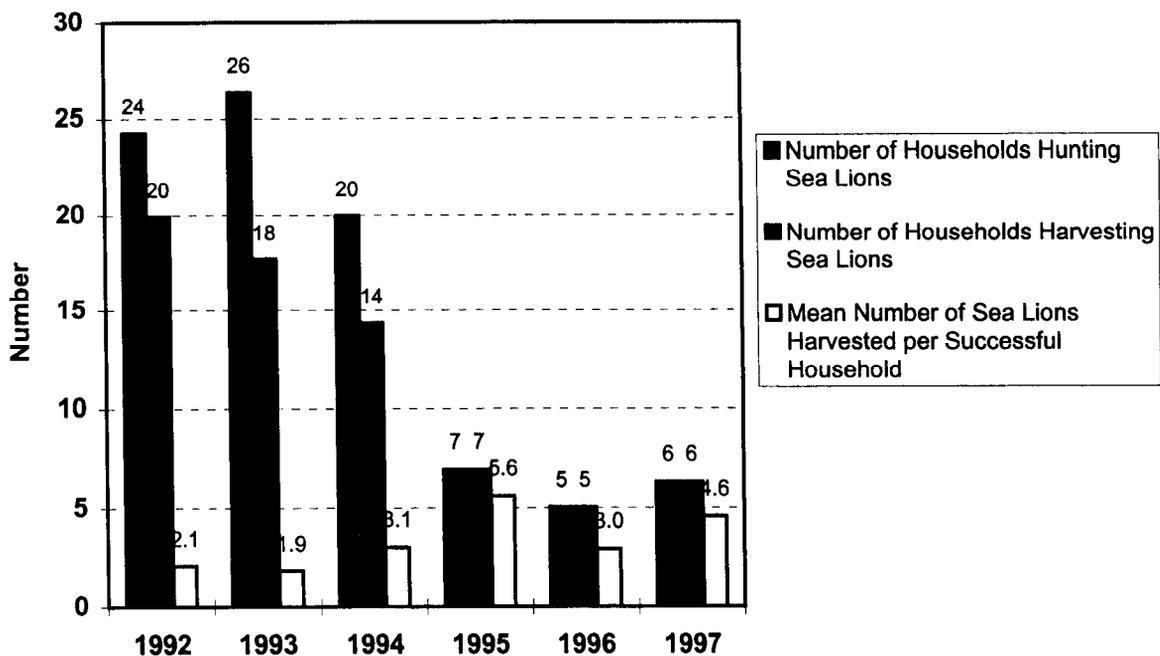
animals in each place during the 1980s; in 1997, Tatitlek hunters harvested 3 sea lions and Chenega Bay hunters harvested none (Fig. 15). Harvests at Nanwalek and Port Graham show substantial yearly variation; no sea lions were harvested in 1997 in either place. On Kodiak Island, sea lion harvests declined substantially during the 1980s – 232 (1982), 202 (1986) and 37 (1989) – but rebounded again to 107 (1995) because of increased harvests at Old Harbor and Ouzinkie; however, harvests fell to 31 animals in 1997, with none reported for three of six villages (Fig 17). The longer time series suggest that with few exceptions (Old Harbor, Nanwalek, and Port Graham), 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 six years appear to be associated with sharp drops in hunters, as illustrated with four communities in Figs. 27-30, 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 Figs. 27 and 28, there have been substantial decreases in the number of households hunting sea lion over the last six years at St. Paul and Unalaska. On St. Paul, the estimated number of households hunting sea lions during the survey year sharply declined from 75 households in 1992 to 22 households in 1997. Similarly, the number of households successfully harvesting sea lions decreased from 58 households in 1992 to 13 households in 1997. At Unalaska, the number of households hunting sea lions declined from 24 to 6 households, while the number of households successfully harvesting sea lions declined from 20 to 6 households between 1992 and 1997. While hunters declined, there were no clear indications of declining success rates for households that did hunt – annual mean harvests per household ranged from 1.6 to 3.6 sea lions per successful hunter at St. Paul, and from 1.9 to 5.6 sea lions per successful hunter at Unalaska.

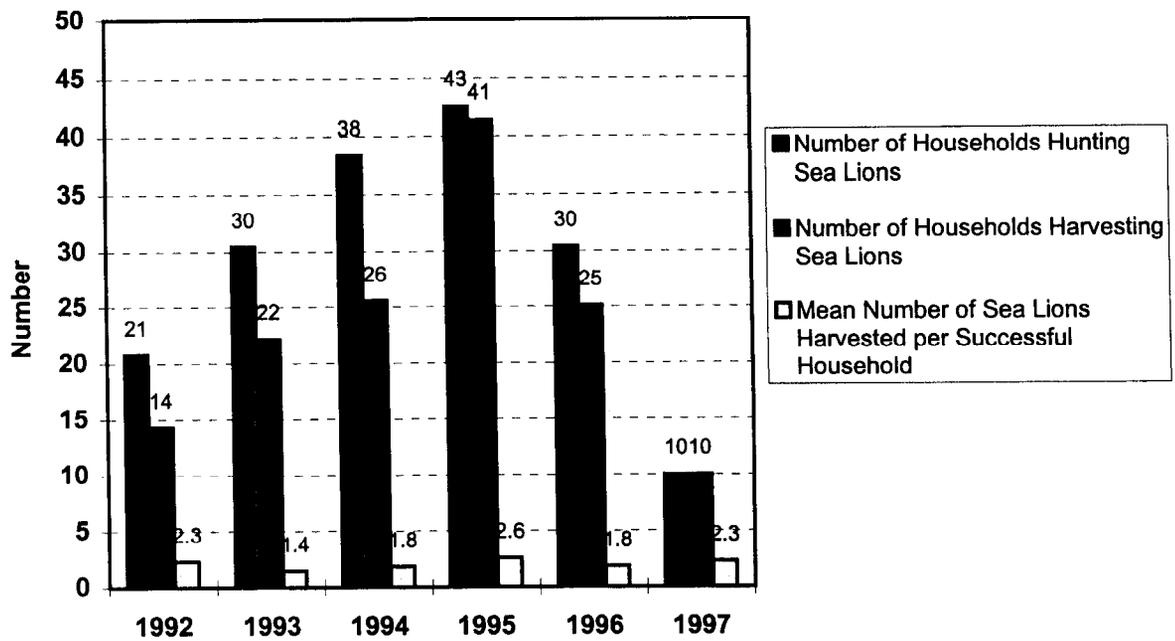
**Fig. 27. Sea Lion Hunters and Success Rates,  
St. Paul, 1992 - 1997**



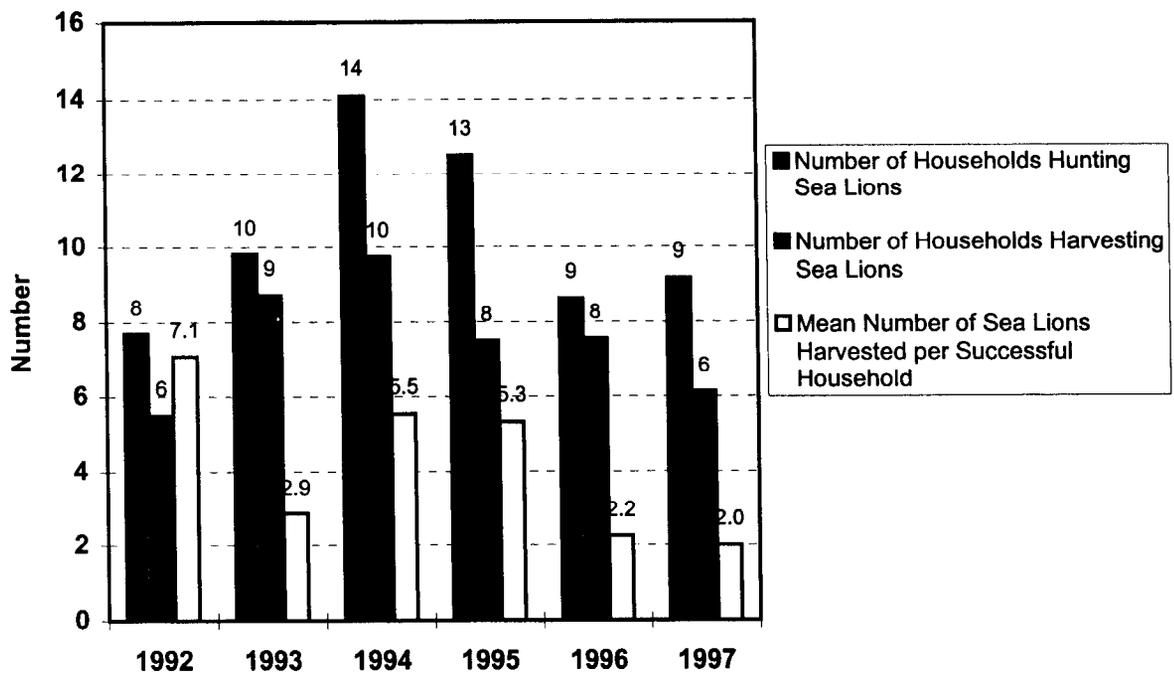
**Fig. 28. Sea Lion Hunters and Success Rates,  
Unalaska, 1992 - 1997**



**Fig. 29. Sea Lion Hunters and Success Rates,  
Old Harbor, 1992 - 1997**



**Fig. 30. Sea Lion Hunters and Success Rates,  
Atka, 1992 - 1997**



Hunting patterns at Old Harbor and Atka display somewhat different trends (Figs. 29 and 30). 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 only 10 households by 1997; the number of successful hunters show a similar pattern. Mean harvests were fairly similar between years, ranging from 1.8 to 2.6 sea lions per successful household at Old Harbor. Atka shows a pattern similar to Old Harbor (Fig. 30) -- numbers of sea lion hunting households first rose and then fell during the six-year period, peaking during 1994. Mean harvests per successful hunter ranged from 2.0 to 5.5 sea lions, the most productive harvest rates of the four communities in Figs. 27 to 30.

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 and consequently more difficult and expensive to hunt. 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 probably are investing more time and money in pursuit of the sea lions harvested.

In addition to increasing cost factors, the substantial declines in hunting households during the six-year study period may be related in part to other changes in a community's economy during the same period. For instance, greater amounts of seasonal employment have been available at St. Paul with the recent building of harbor and airport facilities and development of support services for a burgeoning commercial seafood processing industry using the port (O'Hara 1995). The declines in sea lion hunting from 1992-1997 likely reflect households adjusting their allocation of labor

between wage and subsistence sectors to take advantage of emergent economic opportunities. It is difficult to predict the size, direction, and duration of these types of changes, as households balance subsistence and wage activities over the short- and long-term.

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.

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**APPENDIX A**

**SURVEY INSTRUMENT USED  
IN HOUSEHOLD INTERVIEWS, 1997**

**The Subsistence Harvest of Harbor Seal and Sea Lion by Alaska Natives in 1997**, by Robert J. Wolfe and Craig Mishler, Technical Paper No. 246, Division of Subsistence, Alaska Department of Fish and Game, Juneau, August 1998. Final Report For Year Six, Subsistence Study and Monitor System (No. 50ABNF400080), National Marine Fisheries Service.



ARE ANY MEMBERS OF YOUR HOUSEHOLD ALASKA NATIVES?

This survey is only relevant to Native households.

YES: \_\_\_\_\_

How many people lived in your household in 1997? \_\_\_\_\_

FOR ANCHORAGE ONLY: Where did you hunt? \_\_\_\_\_

NO: \_\_\_\_\_

THANK YOU FOR YOUR COOPERATION.

**HARBOR SEAL**

DID YOU OR MEMBERS OF YOUR HOUSEHOLD HUNT OR USE HARBOR SEALS IN 1997?

YES \_\_\_\_\_ NO \_\_\_\_\_

(IF YES, PLEASE COMPLETE THE FOLLOWING QUESTIONS:)

During 1997, did you or your household:

1. Use harbor seals (meat, hides, or oil)?
2. Hunt harbor seals?
3. Kill and retrieve harbor seals?
4. Receive harbor seals from other households or communities?
5. Give away harbor seals to other households or communities?

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

USE SEA LIONS?	
NO	Thank you.
YES	Go to Sea Lion form

CHECK IF APPROPRIATE	
No Contact	

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

6. How many harbor seals did your household kill and retrieve? [Enter in total box.]

7. In which months were they killed and retrieved? How many in (January, etc.)? [Enter the numbers by month.]

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

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

[Enter the numbers by month.]

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

During 1997, 9. How many harbor seal were struck and lost by your household? [Enter number in total box.]

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

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

Community: \_\_\_\_\_ ( ) HHID: \_\_\_\_\_

LIST: Hunter Random

Interviewer: \_\_\_\_\_ Date: \_\_\_\_\_

**SEA LIONS**

**DID YOU OR MEMBERS OF YOUR HOUSEHOLD HUNT OR USE SEA LIONS IN 1997?**

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

During 1997, 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.]

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

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.]

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

During 1997,

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.]

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

**THANK YOU FOR YOUR COOPERATION.**

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

Interviewer: \_\_\_\_\_ Date: \_\_\_\_\_

## **APPENDIX B**

### **SUBSISTENCE TAKES OF HARBOR SEAL AND SEA LION BY REGION**

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



**Table 1. SEA LION AND HARBOR SEAL HARVESTS: SOUTHEAST ALASKA, 1997**

<i>SAMPLING DESIGN:</i>		<u>Total</u>
<i>CHAIN REFERRAL</i>	Total Referred Households	618
	Surveyed Households	495
	Sampling Fraction	80.1%
	Sample Household Members	1712
	Estimated Household Members	2134.9
	Estimated Native Population	11481.8

**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	1343.4	
Hunted	N/A	N/A		Total Number Struck and Lost	0.0	224.1	
Harvested	N/A	N/A		Total Number Taken	0.0	1567.4	
Received	N/A	N/A					
Gave Away	N/A	N/A		Number Harvested Per Capita	0.00	0.12	

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	73	93	124	128	133	23	14	46	77	88	127	107	61	1094
Struck & Lost	2	2	6	21	28	2	4	5	5	14	24	21	52	186
Total Take	75	95	130	149	161	25	18	51	82	102	151	128	113	1280
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	85.3	108.7	144.8	153.5	162.2	26.3	16.5	75.3	111.3	107.1	152.3	127.5	72.5	1343.4
Struck & Lost	2.3	2.3	7.5	25.7	34.1	2.2	5.0	5.7	5.9	16.2	28.5	25.0	63.8	224.1
Total Take	87.6	111.0	152.4	179.2	196.2	28.6	21.5	81.0	117.2	123.3	180.8	152.5	136.3	1567.4
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	91.9	116.0	150.6	162.0	170.6	29.0	17.5	75.7	112.8	113.9	161.2	142.1		1343.4
Struck & Lost	2.5	3.3	9.3	37.0	58.5	3.1	5.0	6.2	9.4	20.3	36.9	32.7		224.1
Total Take	94.4	119.4	159.9	199.0	229.1	32.1	22.5	82.0	122.2	134.1	198.0	174.8		1567.4
Total Take (%)	6.0%	7.6%	10.2%	12.7%	14.6%	2.0%	1.4%	5.2%	7.8%	8.6%	12.6%	11.2%		100.0%
Cum. Take	94.4	213.8	373.7	572.7	801.8	833.9	856.4	938.4	1060.5	1194.6	1392.7	1567.4		
Cum. Take (%)	6.0%	13.6%	23.8%	36.5%	51.2%	53.2%	54.6%	59.9%	67.7%	76.2%	88.8%	100.0%		

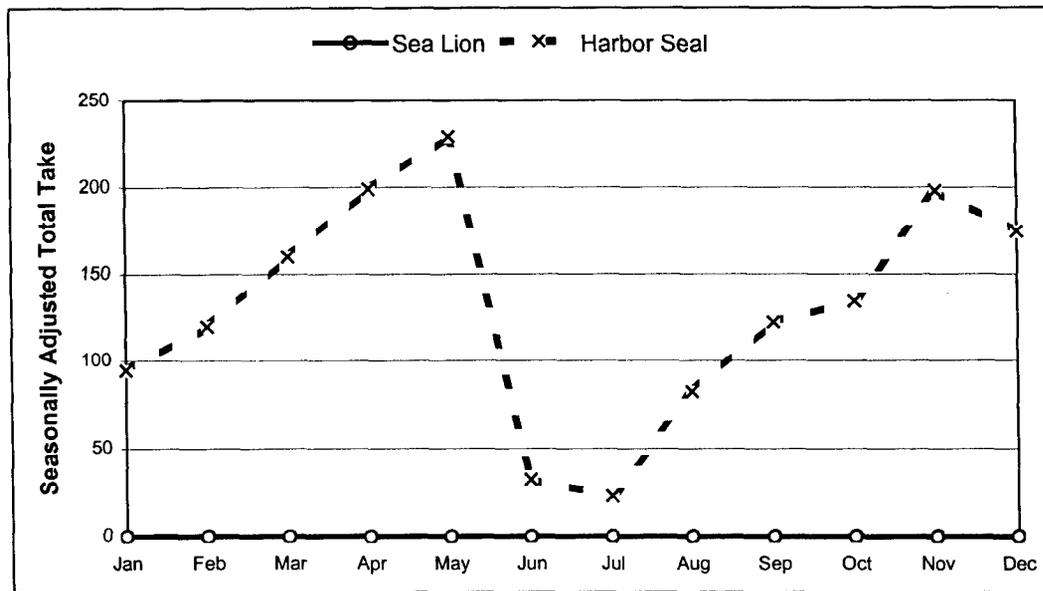
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

**Table 1. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTHEAST ALASKA, 1997**

**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	--	500	45.7%	615.0	45.8%
Adult Female	0	--	0.0	--	269	24.6%	328.6	24.5%
Adult Unknown Sex	0	--	0.0	--	179	16.4%	230.4	17.2%
Juvenile Male	0	--	0.0	--	71	6.5%	84.6	6.3%
Juvenile Female	0	--	0.0	--	25	2.3%	28.7	2.1%
Juvenile Unknown Sex	0	--	0.0	--	7	0.6%	7.7	0.6%
Pup Male	0	--	0.0	--	1	0.1%	1.2	0.1%
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	--	27	2.5%	30.8	2.3%
Female Unknown Age	0	--	0.0	--	14	1.3%	15.3	1.1%
Unknown Sex and Age	0	--	0.0	--	1	0.1%	1.0	0.1%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>1094</b>	<b>100.0%</b>	<b>1343.4</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

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, 1997**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	33	386	419
	Surveyed Households	25	162	187
	Sampling Fraction	75.8%	42.0%	44.6%
	Sample Household Members	76	515	591
	Estimated Household Members	100.0	1185.0	1285.0
	Estimated Native Population	--	--	2064.2

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	N/A	N/A	Total Number Harvested	4.5	295.0
Hunted	N/A	N/A	Total Number Struck and Lost	1.4	12.8
Harvested	N/A	N/A	Total Number Taken	5.8	307.7
Received	N/A	N/A			
Gave Away	N/A	N/A	Number Harvested Per Capita	0.00	0.14

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	2	0	1	0	0	0	0	0	0	0	3
Struck & Lost	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Total Take	0	0	0	3	0	1	0	0	0	0	0	0	0	4
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	2.7	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
Struck & Lost	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Total Take	0.0	0.0	0.0	4.1	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	2.7	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
Struck & Lost	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Total Take	0.0	0.0	0.0	4.1	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
Total Take (%)	0.0%	0.0%	0.0%	70.3%	0.0%	29.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	4.1	4.1	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	
Cum. Take (%)	0.0%	0.0%	0.0%	70.3%	70.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	4	9	11	9	11	18	26	17	13	16	35	8	0	177
Struck & Lost	0	1	1	1	0	3	3	0	1	0	0	0	0	10
Total Take	4	10	12	10	11	21	29	17	14	16	35	8	0	187
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	5.4	11.6	13.9	10.7	15.3	28.7	34.5	31.8	29.1	44.6	52.8	16.6	0.0	295.0
Struck & Lost	0.0	1.4	1.4	1.4	0.0	4.1	3.2	0.0	1.4	0.0	0.0	0.0	0.0	12.8
Total Take	5.4	13.0	15.3	12.0	15.3	32.9	37.7	31.8	30.4	44.6	52.8	16.6	0.0	307.7
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	5.4	11.6	13.9	10.7	15.3	28.7	34.5	31.8	29.1	44.6	52.8	16.6	0.0	295.0
Struck & Lost	0.0	1.4	1.4	1.4	0.0	4.1	3.2	0.0	1.4	0.0	0.0	0.0	0.0	12.8
Total Take	5.4	13.0	15.3	12.0	15.3	32.9	37.7	31.8	30.4	44.6	52.8	16.6	0.0	307.7
Total Take (%)	1.7%	4.2%	5.0%	3.9%	5.0%	10.7%	12.2%	10.3%	9.9%	14.5%	17.2%	5.4%	0.0%	100.0%
Cum. Take	5.4	18.3	33.6	45.6	61.0	93.8	131.5	163.3	193.8	238.4	291.2	307.7	307.7	
Cum. Take (%)	1.7%	6.0%	10.9%	14.8%	19.8%	30.5%	42.7%	53.1%	63.0%	77.5%	94.6%	100.0%	100.0%	

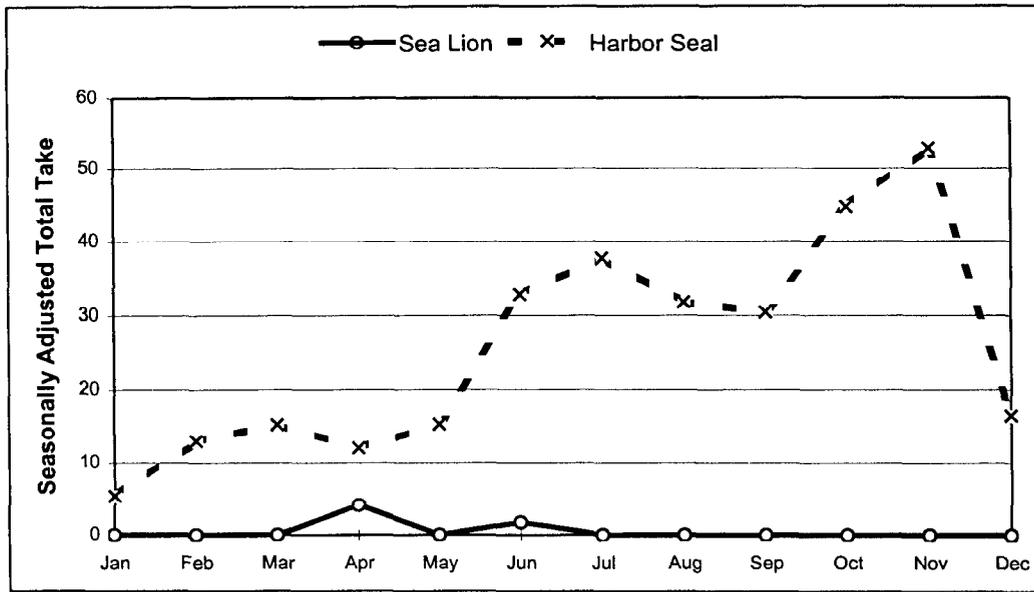
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

**Table 2. (cont.) SEA LION AND HARBOR SEAL HARVESTS: NORTH PACIFIC RIM, 1997**

**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%	49	27.7%	64.1	21.7%
Adult Female	0	0.0%	0.0	0.0%	18	10.2%	30.1	10.2%
Adult Unknown Sex	1	33.3%	1.7	38.8%	26	14.7%	67.8	23.0%
Juvenile Male	0	0.0%	0.0	0.0%	33	18.6%	43.1	14.6%
Juvenile Female	0	0.0%	0.0	0.0%	21	11.9%	34.6	11.7%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	14	7.9%	21.7	7.4%
Pup Male	0	0.0%	0.0	0.0%	8	4.5%	17.4	5.9%
Pup Female	0	0.0%	0.0	0.0%	4	2.3%	10.9	3.7%
Pup Unknown Sex	0	0.0%	0.0	0.0%	2	1.1%	2.5	0.8%
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	66.7%	2.7	61.2%	2	1.1%	2.7	0.9%
<b>Total</b>	<b>3</b>	<b>100.0%</b>	<b>4.5</b>	<b>100.0%</b>	<b>177</b>	<b>100.0%</b>	<b>295.0</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	25.1	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

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, 1997**

<b>SAMPLING DESIGN:</b>		<u>Total</u>
<b>CHAIN REFERRAL</b>	Total Referred Households	59
	Surveyed Households	51
	Sampling Fraction	86.4%
	Sample Household Members	169
	Estimated Household Members	196.6
	Estimated Native Population	16473

**HARVEST AND USE INFORMATION**

<b>Percentage of Native Households:</b>			<b>Estimated Community Harvest and Take (Expanded):</b>		
	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	101.7
Hunted	N/A	N/A	Total Number Struck and Lost	0.0	8.8
Harvested	N/A	N/A	Total Number Taken	0.0	110.5
Received	N/A	N/A			
Gave Away	N/A	N/A	Number Harvested Per Capita	0.00	0.01

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	5	12	2	0	2	5	9	3	14	15	16	0	5	88
Struck & Lost	0	1	0	0	0	0	0	0	1	2	2	0	2	8
Total Take	5	13	2	0	2	5	9	3	15	17	18	0	7	96
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	5.0	13.4	2.0	0.0	2.0	6.4	11.4	3.8	17.9	16.9	17.1	0.0	5.8	101.7
Struck & Lost	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.0	2.0	0.0	2.6	8.8
Total Take	5.0	14.4	2.0	0.0	2.0	6.4	11.4	3.8	19.1	18.9	19.1	0.0	8.4	110.5
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	5.3	14.2	2.1	0.0	2.0	6.9	12.1	4.0	19.0	17.9	18.2	0.0	5.8	101.7
Struck & Lost	0.0	1.0	0.0	0.0	0.0	0.4	0.4	0.1	2.2	2.3	2.3	0.0	2.6	8.8
Total Take	5.3	15.2	2.1	0.0	2.0	7.3	12.5	4.1	21.2	20.2	20.6	0.0	8.4	110.5
Total Take (%)	4.8%	13.8%	1.9%	0.0%	1.8%	6.6%	11.3%	3.7%	19.2%	18.3%	18.6%	0.0%	8.4%	100.0%
Cum. Take	5.3	20.5	22.6	22.6	24.6	31.9	44.4	48.5	69.7	90.0	110.5	110.5	110.5	110.5
Cum. Take (%)	4.8%	18.6%	20.5%	20.5%	22.3%	28.9%	40.2%	43.9%	63.1%	81.4%	100.0%	100.0%	100.0%	100.0%

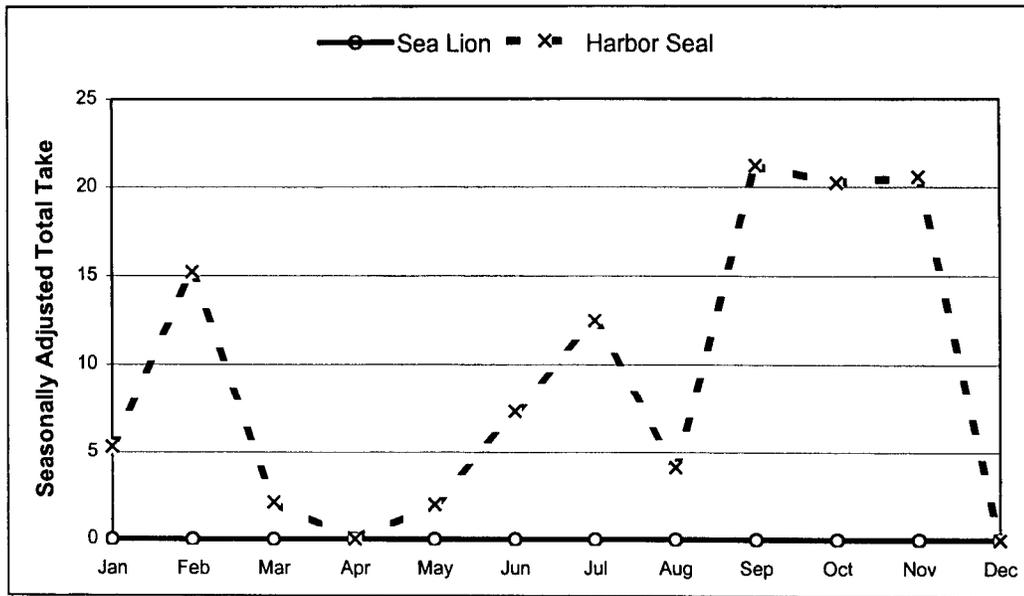
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

**Table 3. (cont.) SEA LION AND HARBOR SEAL HARVESTS: UPPER KENAI-COOK INLET, 1997**

**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	26.1%	25.0	24.6%
Adult Female	0	--	0.0	--	8	9.1%	8.0	7.9%
Adult Unknown Sex	0	--	0.0	--	22	25.0%	26.9	26.4%
Juvenile Male	0	--	0.0	--	4	4.5%	4.0	3.9%
Juvenile Female	0	--	0.0	--	3	3.4%	3.0	2.9%
Juvenile Unknown Sex	0	--	0.0	--	8	9.1%	10.1	9.9%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	20	22.7%	24.7	24.3%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>88</b>	<b>100.0%</b>	<b>101.7</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	5.7	3.8	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

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, 1997**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	87	73	160
	Surveyed Households	76	57	133
	Sampling Fraction	87.4%	78.1%	83.1%
	Sample Household Members	288	203	491
	Estimated Household Members	329.1	259.9	589.0
	Estimated Native Population	--	--	2012.6

**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	33.3	189.8	
Hunted	N/A	N/A		Total Number Struck and Lost	4.9	18.3	
Harvested	N/A	N/A		Total Number Taken	38.2	208.2	
Received	N/A	N/A					
Gave Away	N/A	N/A		Number Harvested Per Capita	0.02	0.09	

<b>SEA LION HARVEST BY MONTH</b>													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	4	1	1	0	0	2	1	0	2	7	3	5	2	28
Struck & Lost	2	0	0	1	0	0	0	0	0	0	0	1	0	4
Total Take	6	1	1	1	0	2	1	0	2	7	3	6	2	32
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	5.0	1.2	1.2	0.0	0.0	2.4	1.0	0.0	2.0	8.2	3.7	6.2	2.4	33.3
Struck & Lost	2.5	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	4.9
Total Take	7.5	1.2	1.2	1.2	0.0	2.4	1.0	0.0	2.0	8.2	3.7	7.4	2.4	38.2
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	5.3	1.3	1.3	0.0	0.0	2.7	1.0	0.0	2.0	9.0	4.0	6.6		33.3
Struck & Lost	2.5	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2		4.9
Total Take	7.8	1.3	1.3	1.2	0.0	2.7	1.0	0.0	2.0	9.0	4.0	7.8		38.2
Total Take (%)	20.4%	3.5%	3.5%	3.1%	0.0%	7.0%	2.6%	0.0%	5.2%	23.6%	10.4%	20.5%		100.0%
Cum. Take	7.8	9.1	10.5	11.7	11.7	14.3	15.3	15.3	17.3	26.3	30.3	38.2		
Cum. Take (%)	20.4%	23.9%	27.4%	30.6%	30.6%	37.6%	40.2%	40.2%	45.4%	69.1%	79.5%	100.0%		

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	13	17	6	7	7	2	7	13	14	20	30	23	5	164
Struck & Lost	2	0	1	2	0	0	0	0	2	2	2	2	2	15
Total Take	15	17	7	9	7	2	7	13	16	22	32	25	7	179
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	14.6	18.2	7.0	8.3	8.0	2.2	8.4	14.7	16.7	23.3	35.0	27.3	6.0	189.8
Struck & Lost	2.3	0.0	1.2	2.4	0.0	0.0	0.0	0.0	2.4	2.3	2.3	2.6	2.8	18.3
Total Take	17.0	18.2	8.1	10.7	8.0	2.2	8.4	14.7	19.1	25.7	37.4	29.9	8.8	208.2
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	15.0	18.3	7.3	8.9	8.3	2.3	8.7	15.5	17.6	24.0	35.8	28.0		189.8
Struck & Lost	2.3	0.0	1.2	2.4	0.0	0.0	0.0	0.0	2.4	2.3	2.3	5.4		18.3
Total Take	17.4	18.3	8.5	11.3	8.3	2.3	8.7	15.5	20.0	26.3	38.1	33.4		208.2
Total Take (%)	8.3%	8.8%	4.1%	5.4%	4.0%	1.1%	4.2%	7.4%	9.6%	12.7%	18.3%	16.0%		100.0%
Cum. Take	17.4	35.7	44.2	55.5	63.8	66.1	74.8	90.3	110.3	136.7	174.8	208.2		
Cum. Take (%)	8.3%	17.2%	21.2%	26.7%	30.7%	31.8%	36.0%	43.4%	53.0%	65.7%	84.0%	100.0%		

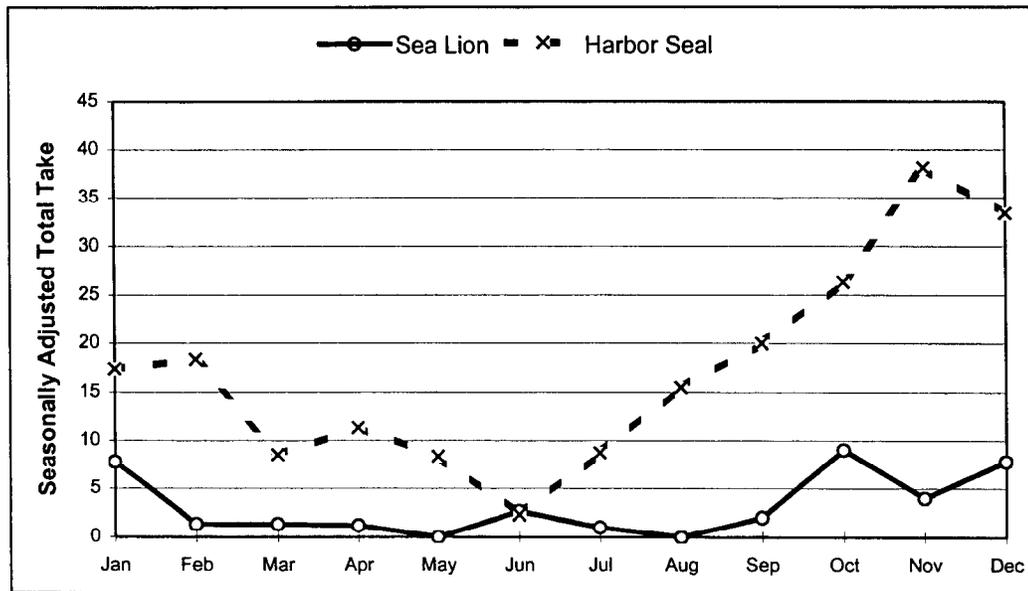
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

**Table 4. (cont.) SEA LION AND HARBOR SEAL HARVESTS: KODIAK ISLAND, 1997**

**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	3.6%	1.3	3.9%	57	34.8%	65.7	34.6%
Adult Female	1	3.6%	1.2	3.6%	18	11.0%	20.8	10.9%
Adult Unknown Sex	8	28.6%	9.6	28.7%	18	11.0%	20.9	11.0%
Juvenile Male	9	32.1%	11.0	33.2%	26	15.9%	30.9	16.3%
Juvenile Female	1	3.6%	1.2	3.6%	10	6.1%	11.6	6.1%
Juvenile Unknown Sex	5	17.9%	5.4	16.2%	20	12.2%	21.9	11.5%
Pup Male	0	0.0%	0.0	0.0%	2	1.2%	2.2	1.2%
Pup Female	0	0.0%	0.0	0.0%	1	0.6%	1.2	0.6%
Pup Unknown Sex	0	0.0%	0.0	0.0%	2	1.2%	2.0	1.1%
Male Unknown Age	0	0.0%	0.0	0.0%	4	2.4%	5.6	2.9%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	3	10.7%	3.6	10.8%	6	3.7%	7.0	3.7%
<b>Total</b>	<b>28</b>	<b>100.0%</b>	<b>33.3</b>	<b>100.0%</b>	<b>164</b>	<b>100.0%</b>	<b>189.8</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

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, 1997**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	34	230	264
	Surveyed Households	31	117	148
	Sampling Fraction	91.2%	50.9%	56.1%
	Sample Household Members	119	388	507
	Estimated Household Members	130.7	708.2	838.9
	Estimated Native Population	--	--	1260.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>	
	<u>Sea Lion</u>	<u>Harbor Seal</u>	<u>Sea Lion</u>	<u>Harbor Seal</u>
Used	N/A	N/A	Total Number Harvested	8.3 68.3
Hunted	N/A	N/A	Total Number Struck and Lost	0.0 12.1
Harvested	N/A	N/A	Total Number Taken	8.3 80.4
Received	N/A	N/A		
Gave Away	N/A	N/A	Number Harvested Per Capita	0.01 0.05

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	1	0	0	0	0	4	1	0	1	0	7	
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	1	0	0	0	0	4	1	0	1	0	7	
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	1.8	0.0	0.0	0.0	0.0	4.4	1.1	0.0	1.1	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	0.0	0.0	1.8	0.0	0.0	0.0	0.0	4.4	1.1	0.0	1.1	0.0	8.3	
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	1.8	0.0	0.0	0.0	0.0	4.4	1.1	0.0	1.1		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	
Total Take	0.0	0.0	1.8	0.0	0.0	0.0	0.0	4.4	1.1	0.0	1.1		8.3	
Total Take (%)	0.0%	0.0%	21.6%	0.0%	0.0%	0.0%	0.0%	52.9%	12.7%	0.0%	12.7%		100.0%	
Cum. Take	0.0	0.0	1.8	1.8	1.8	1.8	1.8	6.2	7.3	7.3	8.3			
Cum. Take (%)	0.0%	0.0%	21.6%	21.6%	21.6%	21.6%	21.6%	74.6%	87.3%	87.3%	100.0%			

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	4	1	5	3	2	1	4	3	6	10	8	8	4	59
Struck & Lost	0	2	0	1	0	0	0	0	0	3	3	1	0	10
Total Take	4	3	5	4	2	1	4	3	6	13	11	9	4	69
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	4.6	1.1	5.4	4.0	2.9	1.1	5.1	3.3	6.5	12.4	9.2	8.8	4.0	68.3
Struck & Lost	0.0	2.2	0.0	1.1	0.0	0.0	0.0	0.0	4.1	3.6	1.1	0.0	12.1	
Total Take	4.6	3.3	5.4	5.1	2.9	1.1	5.1	3.3	6.5	16.5	12.8	10.0	4.0	80.4
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	4.6	1.1	5.4	4.0	2.9	1.1	6.1	3.3	7.5	13.4	9.2	9.8		68.3
Struck & Lost	0.0	2.2	0.0	1.1	0.0	0.0	0.0	0.0	4.1	3.6	1.1		12.1	
Total Take	4.6	3.3	5.4	5.1	2.9	1.1	6.1	3.3	7.5	17.5	12.8	11.0		80.4
Total Take (%)	5.7%	4.1%	6.7%	6.3%	3.7%	1.4%	7.6%	4.1%	9.3%	21.8%	15.9%	13.6%		100.0%
Cum. Take	4.6	7.8	13.2	18.3	21.2	22.4	28.4	31.7	39.2	56.7	69.4	80.4		
Cum. Take (%)	5.7%	9.7%	16.4%	22.7%	26.4%	27.8%	35.4%	39.4%	48.7%	70.5%	86.4%	100.0%		

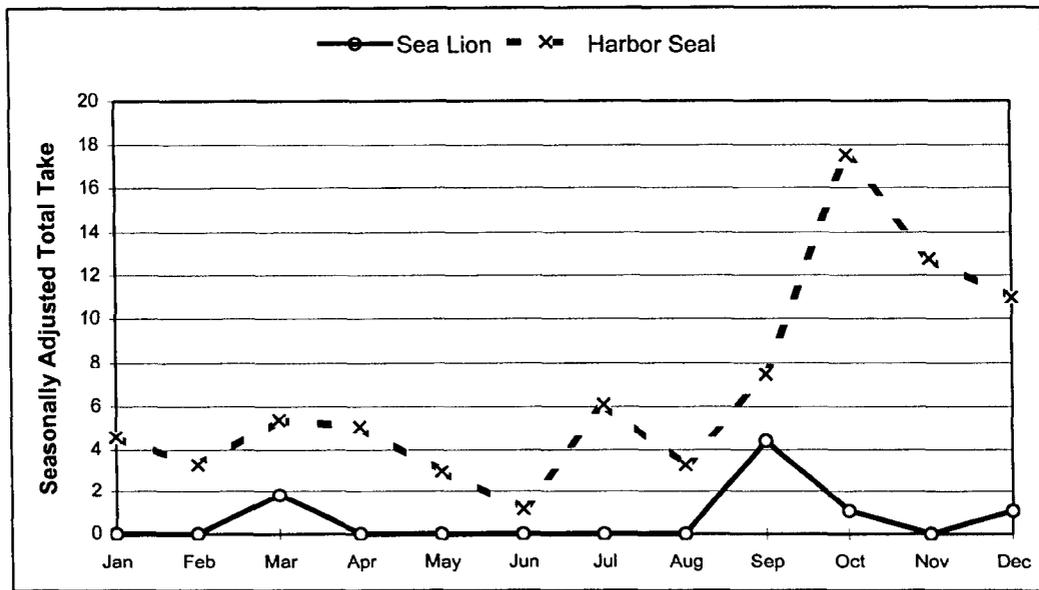
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

**Table 5. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTH ALASKA PENINSULA, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	2	28.6%	2.1	25.4%	16	27.1%	17.5	25.6%
Adult Female	2	28.6%	2.1	25.4%	6	10.2%	6.5	9.5%
Adult Unknown Sex	2	28.6%	2.3	27.5%	18	30.5%	22.2	32.5%
Juvenile Male	0	0.0%	0.0	0.0%	5	8.5%	5.7	8.4%
Juvenile Female	0	0.0%	0.0	0.0%	4	6.8%	4.4	6.4%
Juvenile Unknown Sex	1	14.3%	1.8	21.6%	7	11.9%	8.1	11.8%
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%	2	3.4%	2.9	4.3%
Male Unknown Age	0	0.0%	0.0	0.0%	1	1.7%	1.0	1.5%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>7</b>	<b>100.0%</b>	<b>8.3</b>	<b>100.0%</b>	<b>59</b>	<b>100.0%</b>	<b>68.3</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

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, 1997**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	24	154	178
	Surveyed Households	19	85	104
	Sampling Fraction	79.2%	55.2%	58.4%
	Sample Household Members	52	208	260
	Estimated Household Members	65.7	371.3	437.0
	Estimated Native Population	--	--	411.0

**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	64.0%	65.2%	Total Number Harvested	50.7	70.5
Hunted	11.8%	14.0%	Total Number Struck and Lost	1.3	6.3
Harvested	10.1%	9.8%	Total Number Taken	51.9	76.9
Received	61.6%	61.4%			
Gave Away	11.7%	13.0%	Number Harvested Per Capita	0.12	0.17

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	5	1	5	4	1	1	1	2	4	2	5	2	6	39
Struck & Lost	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Total Take	5	2	5	4	1	1	1	2	4	2	5	2	6	40
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	6.9	1.3	5.8	5.1	1.3	1.3	1.3	2.5	5.1	2.5	6.3	3.1	8.4	50.7
Struck & Lost	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
Total Take	6.9	2.5	5.8	5.1	1.3	1.3	1.3	2.5	5.1	2.5	6.3	3.1	8.4	51.9
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	9.6	1.3	5.8	8.9	1.3	1.3	1.3	2.5	5.1	2.5	6.3	4.9		50.7
Struck & Lost	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.3
Total Take	9.6	2.5	5.8	8.9	1.3	1.3	1.3	2.5	5.1	2.5	6.3	4.9		51.9
Total Take (%)	18.5%	4.9%	11.2%	17.1%	2.4%	2.4%	2.4%	4.9%	9.7%	4.9%	12.2%	9.4%		100.0%
Cum. Take	9.6	12.1	17.9	26.8	28.1	29.3	30.6	33.1	38.2	40.7	47.0	51.9		
Cum. Take (%)	18.5%	23.4%	34.5%	51.6%	54.1%	56.5%	58.9%	63.8%	73.5%	78.4%	90.6%	100.0%		

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	1	3	3	1	0	2	4	7	11	4	4	4	9	53
Struck & Lost	0	1	0	0	0	0	2	1	1	0	0	0	0	5
Total Take	1	4	3	1	0	2	6	8	12	4	4	4	9	58
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.3	3.8	3.5	1.3	0.0	3.1	5.1	9.7	13.4	5.1	5.1	5.6	13.8	70.5
Struck & Lost	0.0	1.3	0.0	0.0	0.0	0.0	2.5	1.5	1.0	0.0	0.0	0.0	0.0	6.3
Total Take	1.3	5.1	3.5	1.3	0.0	3.1	7.6	11.2	14.4	5.1	5.1	5.6	13.8	76.9
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.3	3.8	3.5	1.3	0.0	6.5	5.1	14.8	15.1	5.1	5.1	9.0		70.5
Struck & Lost	0.0	1.3	0.0	0.0	0.0	0.0	2.5	1.5	1.0	0.0	0.0	0.0		6.3
Total Take	1.3	5.1	3.5	1.3	0.0	6.5	7.6	16.4	16.1	5.1	5.1	9.0		76.9
Total Take (%)	1.7%	6.6%	4.6%	1.7%	0.0%	8.5%	9.9%	21.3%	20.9%	6.6%	6.6%	11.8%		100.0%
Cum. Take	1.3	6.3	9.9	11.2	11.2	17.7	25.3	41.6	57.7	62.8	67.8	76.9		
Cum. Take (%)	1.7%	8.3%	12.9%	14.5%	14.5%	23.0%	32.9%	54.1%	75.1%	81.7%	88.2%	100.0%		

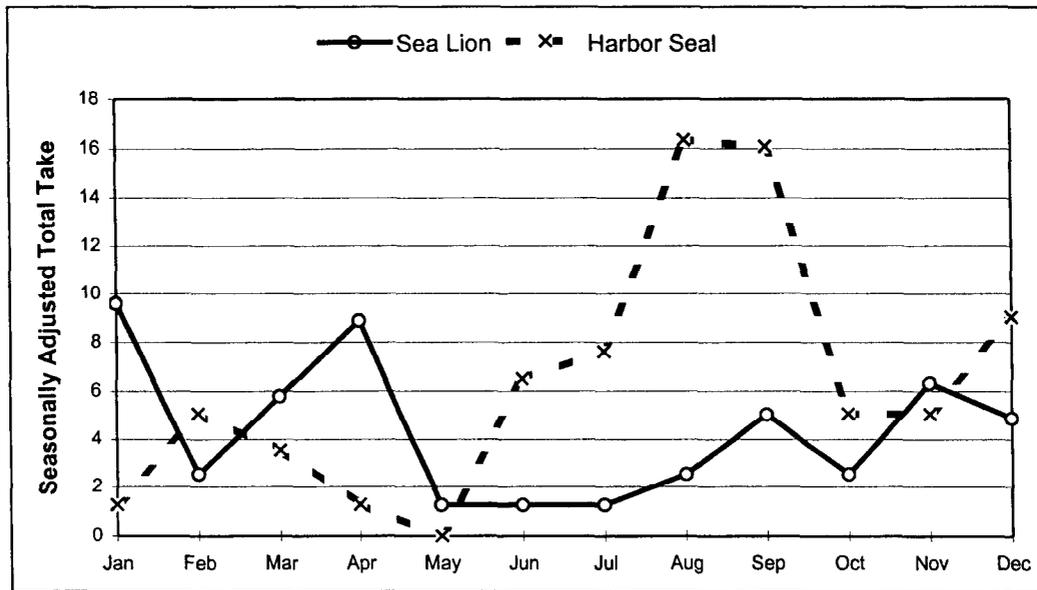
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

**Table 6. (cont.) SEA LION AND HARBOR SEAL HARVESTS: ALEUTIAN ISLANDS, 1997**

**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	15	38.5%	20.3	40.1%	15	28.3%	18.5	26.2%
Adult Female	8	20.5%	10.1	20.0%	7	13.2%	8.9	12.6%
Adult Unknown Sex	3	7.7%	3.8	7.5%	4	7.5%	5.1	7.2%
Juvenile Male	7	17.9%	9.1	18.0%	10	18.9%	13.4	19.0%
Juvenile Female	3	7.7%	4.3	8.5%	4	7.5%	5.9	8.3%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	2	3.8%	3.1	4.3%
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	3	7.7%	3.0	5.9%	11	20.8%	15.8	22.4%
<b>Total</b>	<b>39</b>	<b>100.0%</b>	<b>50.7</b>	<b>100.0%</b>	<b>53</b>	<b>100.0%</b>	<b>70.5</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

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, 1997**

SAMPLING DESIGN:		Active	Other	Total
MIXED	Total Household Universe	45	159	204
	Surveyed Households	39	80	119
	Sampling Fraction	86.7%	50.3%	58.3%
	Sample Household Members	153	251	404
	Estimated Household Members	176.5	491.3	667.9
	Estimated Native Population	--	--	667.9

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	Lion	Seal		Lion	Seal
Used	71.8%	13.5%	Total Number Harvested	45.5	0.0
Hunted	16.9%	0.0%	Total Number Struck and Lost	10.4	0.0
Harvested	11.5%	0.0%	Total Number Taken	55.9	0.0
Received	70.6%	13.5%			
Gave Away	13.5%	0.0%	Number Harvested Per Capita	0.07	0.00

SEA LION HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	5	3	1	2	0	0	1	5	0	7	3	8	38
Struck & Lost	1	2	2	0	0	0	0	0	0	0	0	0	4	9
Total Take	4	7	5	1	2	0	0	1	5	0	7	3	12	47
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.5	5.8	3.5	1.2	2.3	0.0	0.0	1.2	7.4	0.0	8.1	3.5	9.2	45.5
Struck & Lost	1.2	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	10.4
Total Take	4.6	8.1	5.8	1.2	2.3	0.0	0.0	1.2	7.4	0.0	8.1	3.5	13.8	55.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.6	8.2	4.9	1.3	2.7	0.0	0.0	1.3	8.5	0.0	9.3	4.6		45.5
Struck & Lost	1.7	3.2	3.2	0.1	0.2	0.0	0.0	0.1	0.8	0.0	0.8	0.1		10.4
Total Take	6.3	11.4	8.1	1.5	2.9	0.0	0.0	1.5	9.3	0.0	10.2	4.7		55.9
Total Take (%)	11.3%	20.4%	14.6%	2.6%	5.2%	0.0%	0.0%	2.6%	16.7%	0.0%	18.2%	8.5%		100.0%
Cum. Take	6.3	17.7	25.9	27.3	30.2	30.2	30.2	31.7	41.0	41.0	51.1	55.9		
Cum. Take (%)	11.3%	31.8%	46.3%	48.9%	54.1%	54.1%	54.1%	56.7%	73.4%	73.4%	91.5%	100.0%		

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	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 (%)	--	--	--	--	--	--	--	--	--	--	--	--		--

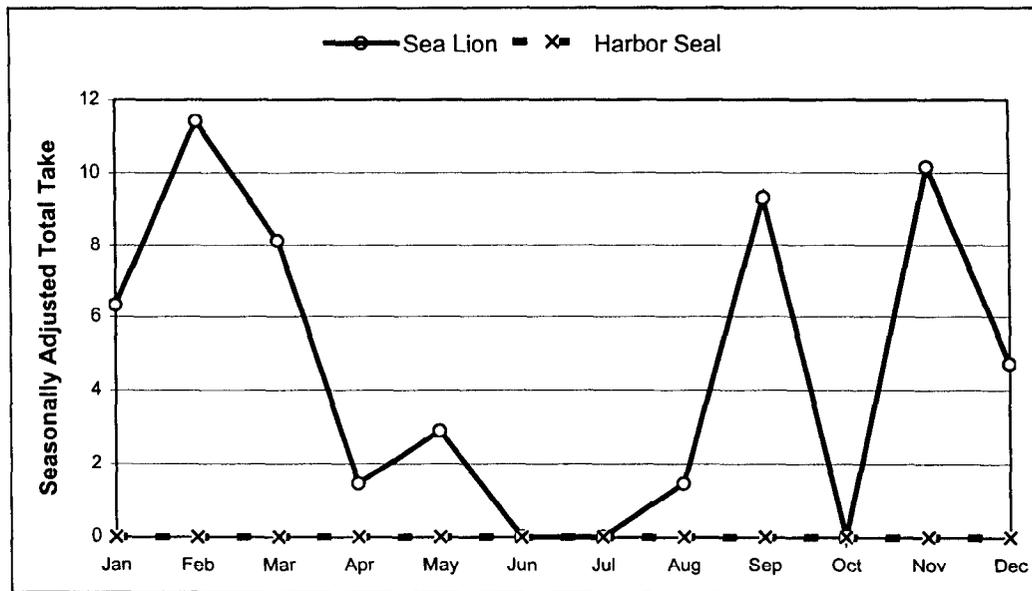
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

**Table 7. (cont.) SEA LION AND HARBOR SEAL HARVESTS: PRIBILOF ISLANDS, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	0	---	0.0	---
Adult Female	0	0.0%	0.0	0.0%	0	---	0.0	---
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	---	0.0	---
Juvenile Male	31	81.6%	37.4	82.2%	0	---	0.0	---
Juvenile Female	4	10.5%	4.6	10.1%	0	---	0.0	---
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	---	0.0	---
Pup Male	1	2.6%	1.2	2.5%	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	2	5.3%	2.3	5.1%	0	---	0.0	---
<b>Total</b>	<b>38</b>	<b>100.0%</b>	<b>45.5</b>	<b>100.0%</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>

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



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

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

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

**Table 8. SEA LION AND HARBOR SEAL HARVESTS: SOUTH BRISTOL BAY, 1997**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	14	290	304
	Surveyed Households	13	168	181
	Sampling Fraction	92.9%	57.9%	59.5%
	Sample Household Members	48	529	577
	Estimated Household Members	51.7	930.3	981.9
	Estimated Native Population	--	--	981.9

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>	
	<u>Sea Lion</u>	<u>Harbor Seal</u>	<u>Sea Lion</u>	<u>Harbor Seal</u>
Used	0.0%	20.8%	Total Number Harvested	0.0 107.8
Hunted	0.0%	12.7%	Total Number Struck and Lost	0.0 66.3
Harvested	0.0%	10.9%	Total Number Taken	0.0 174.1
Received	0.0%	13.3%		
Gave Away	0.0%	11.3%	Number Harvested Per Capita	0.00 0.11

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	8	24	13	8	15	14	6	3	0	5	96
Struck & Lost	0	0	0	0	3	13	8	14	9	0	0	0	14	61
Total Take	0	0	0	8	27	26	16	29	23	6	3	0	19	157
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	9.2	30.4	13.9	8.6	16.0	14.9	6.4	3.2	0.0	5.3	107.8
Struck & Lost	0.0	0.0	0.0	0.0	3.2	14.8	8.5	15.2	9.6	0.0	0.0	0.0	15.0	66.3
Total Take	0.0	0.0	0.0	9.2	33.6	28.7	17.1	31.2	24.5	6.4	3.2	0.0	20.3	174.1
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	9.2	31.3	14.8	9.0	17.1	16.1	6.9	3.5	0.0		107.8
Struck & Lost	0.0	0.0	0.0	2.0	5.8	17.2	11.1	18.7	11.5	0.0	0.0	0.0		66.3
Total Take	0.0	0.0	0.0	11.1	37.1	31.9	20.1	35.8	27.7	6.9	3.5	0.0		174.1
Total Take (%)	0.0%	0.0%	0.0%	6.4%	21.3%	18.3%	11.5%	20.5%	15.9%	4.0%	2.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	11.1	48.2	80.2	100.3	136.0	163.7	170.6	174.1	174.1		
Cum. Take (%)	0.0%	0.0%	0.0%	6.4%	27.7%	46.0%	57.6%	78.1%	94.0%	98.0%	100.0%	100.0%		

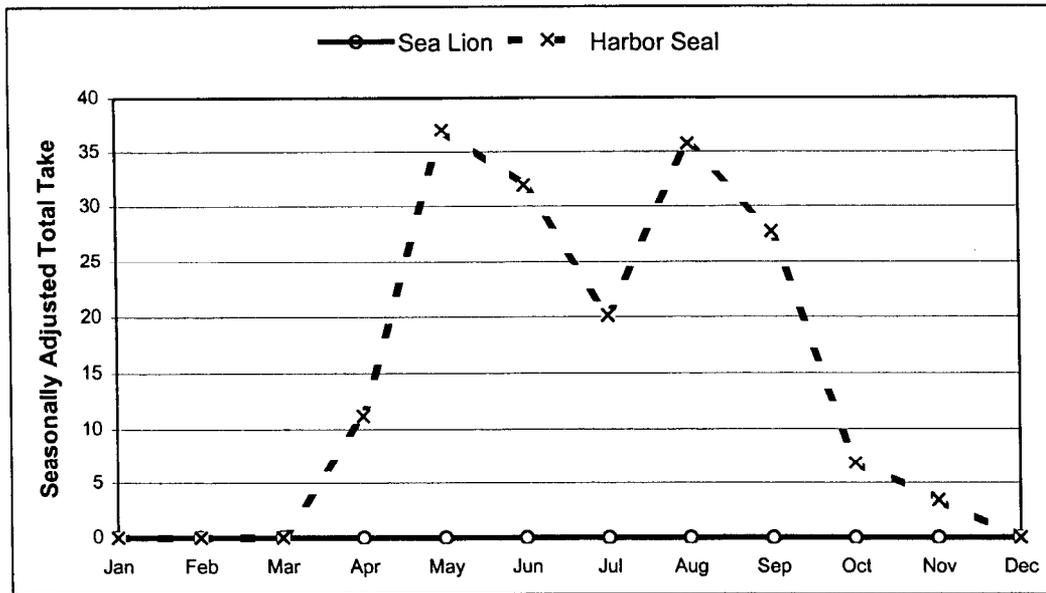
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

**Table 8. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTH BRISTOL BAY, 1997**

**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	--	21	21.9%	26.6	24.7%
Adult Female	0	--	0.0	--	11	11.5%	12.0	11.1%
Adult Unknown Sex	0	--	0.0	--	32	33.3%	34.9	32.4%
Juvenile Male	0	--	0.0	--	1	1.0%	1.1	1.0%
Juvenile Female	0	--	0.0	--	1	1.0%	1.1	1.0%
Juvenile Unknown Sex	0	--	0.0	--	2	2.1%	2.1	2.0%
Pup Male	0	--	0.0	--	1	1.0%	1.2	1.1%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	1	1.0%	1.1	1.0%
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	--	26	27.1%	27.7	25.7%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>96</b>	<b>100.0%</b>	<b>107.8</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	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

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, 1997**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	148	556	704
	Surveyed Households	109	122	231
	Sampling Fraction	73.6%	21.9%	32.8%
	Sample Household Members	471	489	960
	Estimated Household Members	648.0	1868.7	2516.7
	Estimated Native Population	—	—	2526.1

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>				<i>Estimated Community Harvest and Take (Expanded):</i>		
	<u>Sea Lion</u>	<u>Harbor Seal and Spotted Seal</u>		<u>Sea Lion</u>	<u>Harbor Seal</u>	<u>Spotted Seal</u>
Used	N/A	N/A	Total Number Harvested	3.6	18.8	133.6
Hunted	N/A	N/A	Total Number Struck and Lost	0.0	2.1	16.6
Harvested	N/A	N/A	Total Number Taken	3.6	20.9	150.2
Received	N/A	N/A				
Gave Away	N/A	N/A	Number Harvested Per Capita	0.00	0.01	0.05

<i>SEA LION HARVEST BY MONTH</i>													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	1	1	0	0	0	0	0	0	0	0	2
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	1	1	0	0	0	0	0	0	0	0	2
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	1.8	1.8	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%	50.0%	50.0%	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	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	
Cum. Take (%)	0.0%	0.0%	0.0%	50.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

<i>HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH</i>															
	<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			
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>															
Harvest	3	0	14	34	19	0	0	7	7	7	10	0	0	101	
Struck & Lost	0	0	3	5	0	0	0	0	2	3	2	0	0	15	
Total Take	3	0	17	39	19	0	0	7	9	10	12	0	0	116	
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>															
Harvest	9.5	0.0	18.6	51.9	24.4	0.0	0.0	10.7	8.1	11.4	17.8	0.0	0.0	152.4	
Struck & Lost	0.0	0.0	3.1	5.2	0.0	0.0	0.0	0.0	2.1	4.8	3.6	0.0	0.0	18.7	
Total Take	9.5	0.0	21.7	57.0	24.4	0.0	0.0	10.7	10.2	16.2	21.4	0.0	0.0	171.2	
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>															
Harvest	9.5	0.0	18.6	51.9	24.4	0.0	0.0	10.7	8.1	11.4	17.8	0.0	0.0	152.4	
Struck & Lost	0.0	0.0	3.1	5.2	0.0	0.0	0.0	0.0	2.1	4.8	3.6	0.0	0.0	18.7	
Total Take	9.5	0.0	21.7	57.0	24.4	0.0	0.0	10.7	10.2	16.2	21.4	0.0	0.0	171.2	
Total Take (%)	5.6%	0.0%	12.7%	33.3%	14.2%	0.0%	0.0%	6.3%	6.0%	9.5%	12.5%	0.0%	0.0%	100.0%	
Cum. Take	9.5	9.5	31.2	88.2	112.6	112.6	112.6	123.3	133.5	149.7	171.2	171.2	171.2		
Cum. Take (%)	5.6%	5.6%	18.2%	51.5%	65.8%	65.8%	65.8%	72.0%	78.0%	87.5%	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.

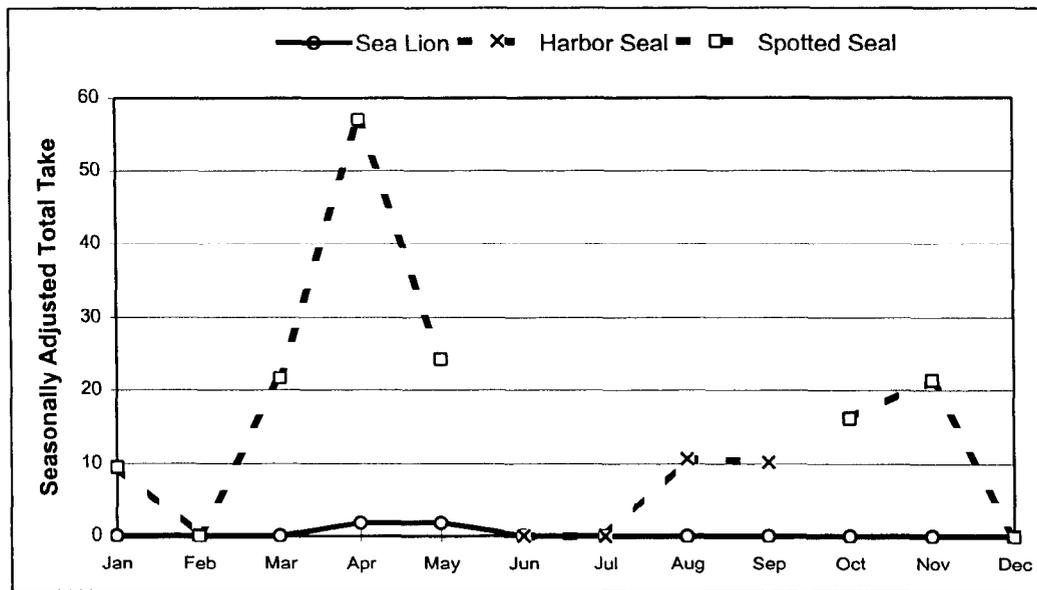
**Table 9. (cont.) SEA LION AND HARBOR SEAL HARVESTS: NORTH BRISTOL BAY, 1997**

**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	1	50.0%	1.8	50.0%	3	21.4%	3.9	20.7%	24	27.6%	42.8	32.0%
Adult Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	9	10.3%	17.9	13.4%
Adult Unknown Sex	0	0.0%	0.0	0.0%	3	21.4%	3.7	19.4%	23	26.4%	30.5	22.8%
Juvenile Male	1	50.0%	1.8	50.0%	2	14.3%	4.2	22.4%	10	11.5%	13.1	9.8%
Juvenile Female	0	0.0%	0.0	0.0%	2	14.3%	2.8	15.1%	3	3.4%	4.8	3.6%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	11	12.6%	15.8	11.8%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	1	1.1%	1.8	1.3%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	2	2.3%	2.4	1.8%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	4	28.6%	4.2	22.4%	4	4.6%	4.6	3.5%
<b>Total</b>	<b>2</b>	<b>100.0%</b>	<b>3.6</b>	<b>100.0%</b>	<b>14</b>	<b>100.0%</b>	<b>18.8</b>	<b>100.0%</b>	<b>87</b>	<b>100.0%</b>	<b>133.6</b>	<b>100.0%</b>

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	7.8	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

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, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	<b>Total Referred Households</b>	<b>51</b>
	<b>Surveyed Households</b>	<b>50</b>
	<b>Sampling Fraction</b>	<b>98.0%</b>
	<b>Sample Household Members</b>	<b>201</b>
	<b>Estimated Household Members</b>	<b>205.0</b>
	<b>Estimated Native Population</b>	<b>522.1</b>

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	<u>Sea Lion</u>	<u>Harbor Seal</u>		<u>Sea Lion</u>	<u>Harbor Seal</u>
Used	0.0%	70.0%	Total Number Harvested	0.0	51.0
Hunted	0.0%	40.0%	Total Number Struck and Lost	0.0	7.1
Harvested	0.0%	34.0%	Total Number Taken	0.0	58.1
Received	0.0%	38.0%			
Gave Away	0.0%	32.0%	Number Harvested Per Capita	0.00	0.10

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	10	0	0	2	1	4	3	2	3	11	8	6	0	50
Struck & Lost	0	0	0	0	0	1	0	0	1	3	2	0	0	7
Total Take	10	0	0	2	1	5	3	2	4	14	10	6	0	57
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	10.2	0.0	0.0	2.0	1.0	4.1	3.1	2.0	3.1	11.2	8.2	6.1	0.0	51.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	3.1	2.0	0.0	0.0	7.1
Total Take	10.2	0.0	0.0	2.0	1.0	5.1	3.1	2.0	4.1	14.3	10.2	6.1	0.0	58.1
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	10.2	0.0	0.0	2.0	1.0	4.1	3.1	2.0	3.1	11.2	8.2	6.1		51.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	3.1	2.0	0.0		7.1
Total Take	10.2	0.0	0.0	2.0	1.0	5.1	3.1	2.0	4.1	14.3	10.2	6.1		58.1
Total Take (%)	17.5%	0.0%	0.0%	3.5%	1.8%	8.8%	5.3%	3.5%	7.0%	24.6%	17.5%	10.5%		100.0%
Cum. Take	10.2	10.2	10.2	12.2	13.3	18.4	21.4	23.5	27.5	41.8	52.0	58.1		
Cum. Take (%)	17.5%	17.5%	17.5%	21.1%	22.8%	31.6%	36.8%	40.4%	47.4%	71.9%	89.5%	100.0%		

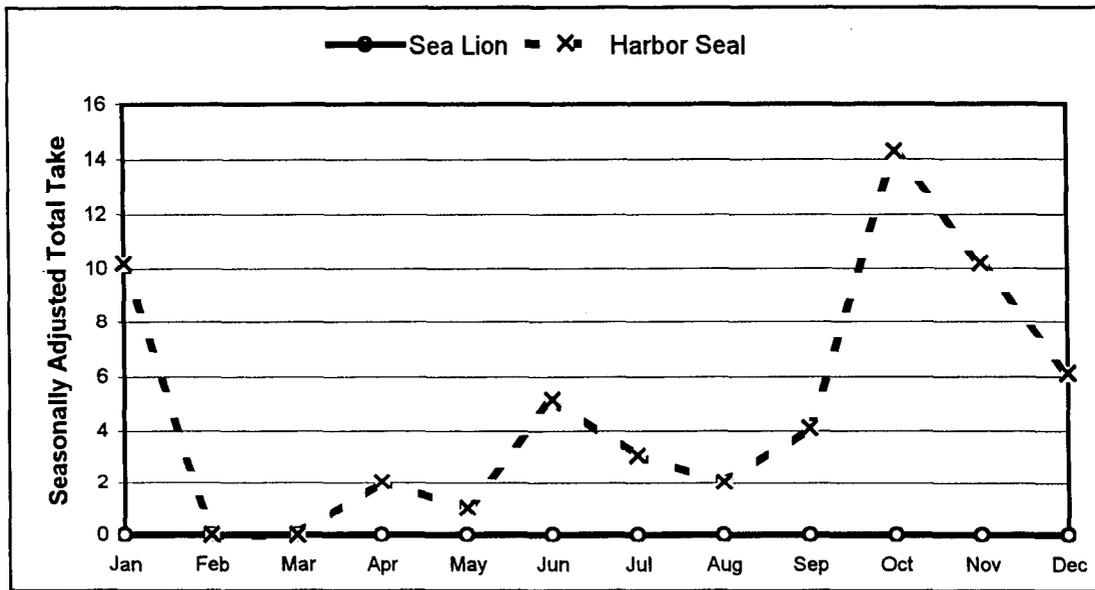
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the City of Angoon, 1997.

**Table 1. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Angoon, 1997**

*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	---	26	52.0%	26.5	52.0%
Adult Female	0	---	0.0	---	3	6.0%	3.1	6.0%
Adult Unknown Sex	0	---	0.0	---	14	28.0%	14.3	28.0%
Juvenile Male	0	---	0.0	---	3	6.0%	3.1	6.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	4	8.0%	4.1	8.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>50</b>	<b>100.0%</b>	<b>51.0</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	125.1	28.9	154.0
1993	0.0	0.0	0.0	1993	56.6	9.9	66.5
1994	0.0	0.0	0.0	1994	66.9	21.1	88.0
1995	0.0	0.0	0.0	1995	80.9	9.7	90.6
1996	0.0	0.0	0.0	1996	71.0	2.0	73.0
1997	0.0	0.0	0.0	1997	51.0	7.1	58.1

SOURCE: Alaska Department 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, 1997.

**Table 2. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Craig, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	31
	Surveyed Households	29
	Sampling Fraction	93.5%
	Sample Household Members	103
	Estimated Household Members	110.1
	Estimated Native Population	288.0

**HARVEST AND USE INFORMATION**

	Percentage of Sample Households:		Estimated Community Harvest and Take (Expanded):	Sea Harbor	
	Sea Lion	Harbor Seal		Lion	Seal
Used	0.0%	65.5%	Total Number Harvested	0.0	62.0
Hunted	0.0%	34.5%	Total Number Struck and Lost	0.0	7.5
Harvested	0.0%	31.0%	Total Number Taken	0.0	69.5
Received	0.0%	34.5%			
Gave Away	0.0%	34.5%	Number Harvested Per Capita	0.00	0.22

SEA LION HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
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	5	5	3	5	0	2	1	0	0	0	2	8	27	58
Struck & Lost	1	1	0	0	0	0	0	3	0	0	0	1	1	7
Total Take	6	6	3	5	0	2	1	3	0	0	2	9	28	65
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.3	5.3	3.2	5.3	0.0	2.1	1.1	0.0	0.0	0.0	2.1	8.6	28.9	62.0
Struck & Lost	1.1	1.1	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	1.1	1.1	7.5
Total Take	6.4	6.4	3.2	5.3	0.0	2.1	1.1	3.2	0.0	0.0	2.1	9.6	29.9	69.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	10.0	10.0	6.0	10.0	0.0	4.0	2.0	0.0	0.0	0.0	4.0	16.0		62.0
Struck & Lost	1.2	1.2	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	1.2		7.5
Total Take	11.2	11.2	6.0	10.0	0.0	4.0	2.0	3.7	0.0	0.0	4.0	17.2		69.5
Total Take (%)	16.2%	16.2%	8.6%	14.4%	0.0%	5.8%	2.9%	5.4%	0.0%	0.0%	5.8%	24.8%		100.0%
Cum. Take	11.2	22.5	28.5	38.5	38.5	42.5	44.5	48.2	48.2	48.2	52.2	69.5		
Cum. Take (%)	16.2%	32.4%	41.0%	55.4%	55.4%	61.2%	64.0%	69.4%	69.4%	69.4%	75.2%	100.0%		

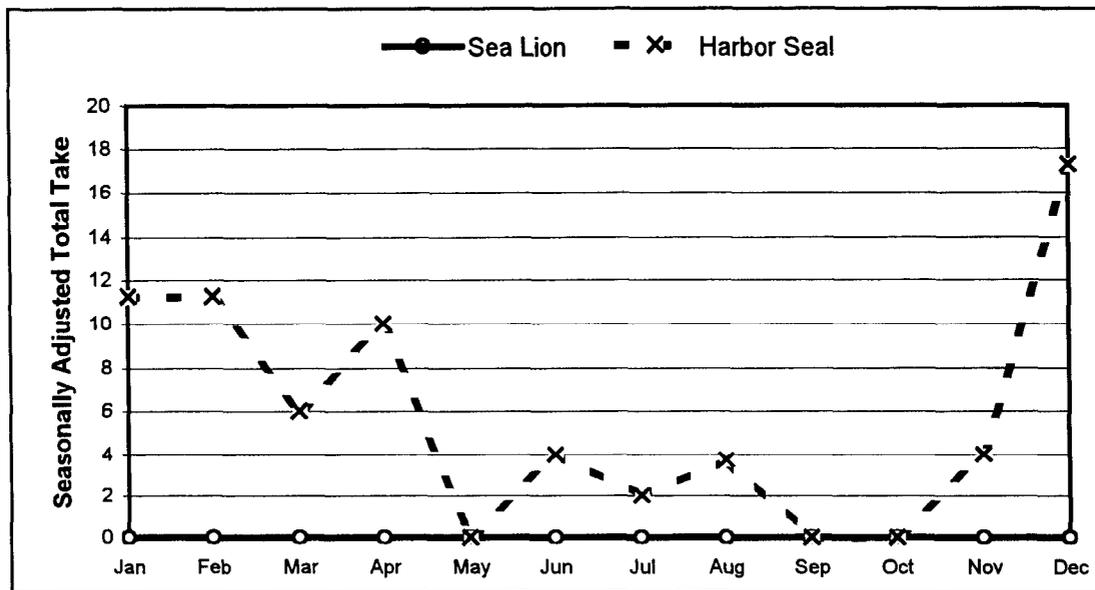
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the City of Craig and Shaan-Seet, Inc., 1997.

**Table 2. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Craig, 1997**

*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	--	14	24.1%	15.0	24.1%
Adult Female	0	--	0.0	--	7	12.1%	7.5	12.1%
Adult Unknown Sex	0	--	0.0	--	5	8.6%	5.3	8.6%
Juvenile Male	0	--	0.0	--	3	5.2%	3.2	5.2%
Juvenile Female	0	--	0.0	--	2	3.4%	2.1	3.4%
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	--	15	25.9%	16.0	25.9%
Female Unknown Age	0	--	0.0	--	12	20.7%	12.8	20.7%
Unknown Sex and Age	0	--	0.0	--	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>58</b>	<b>100.0%</b>	<b>62.0</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	74.2	0.0	74.2
1993	0.0	0.0	0.0	1993	51.1	9.8	60.9
1994	0.0	0.0	0.0	1994	42.7	6.6	49.3
1995	0.0	0.0	0.0	1995	69.4	13.6	83.1
1996	0.0	0.0	0.0	1996	48.2	8.0	56.3
1997	0.0	0.0	0.0	1997	62.0	7.5	69.5

SOURCE: Alaska Department 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., 1997.

**Table 3. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Haines, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	21
	Surveyed Households	16
	Sampling Fraction	76.2%
	Sample Household Members	52
	Estimated Household Members	68.3
	Estimated Native Population	279.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea <u>Lion</u>	Harbor <u>Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	100.0%	Total Number Harvested	0.0	36.8
Hunted	0.0%	87.5%	Total Number Struck and Lost	0.0	10.5
Harvested	0.0%	62.5%	Total Number Taken	0.0	47.3
Received	0.0%	50.0%			
Gave Away	0.0%	62.5%	Number Harvested Per Capita	0.00	0.13

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	1	0	4	9	1	0	0	0	0	1	11	1	0	28
Struck & Lost	0	0	2	3	0	0	0	0	0	0	3	0	0	8
Total Take	1	0	6	12	1	0	0	0	0	1	14	1	0	36
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.3	0.0	5.3	11.8	1.3	0.0	0.0	0.0	0.0	1.3	14.4	1.3	0.0	36.8
Struck & Lost	0.0	0.0	2.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	10.5
Total Take	1.3	0.0	7.9	15.8	1.3	0.0	0.0	0.0	0.0	1.3	18.4	1.3	0.0	47.3
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.3	0.0	5.3	11.8	1.3	0.0	0.0	0.0	0.0	1.3	14.4	1.3	0.0	36.8
Struck & Lost	0.0	0.0	2.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	10.5
Total Take	1.3	0.0	7.9	15.8	1.3	0.0	0.0	0.0	0.0	1.3	18.4	1.3	0.0	47.3
Total Take (%)	2.8%	0.0%	16.7%	33.3%	2.8%	0.0%	0.0%	0.0%	0.0%	2.8%	38.9%	2.8%	0.0%	100.0%
Cum. Take	1.3	1.3	9.2	24.9	26.3	26.3	26.3	26.3	26.3	27.6	45.9	47.3	47.3	47.3
Cum. Take (%)	2.8%	2.8%	19.4%	52.8%	55.6%	55.6%	55.6%	55.6%	55.6%	58.3%	97.2%	100.0%	100.0%	100.0%

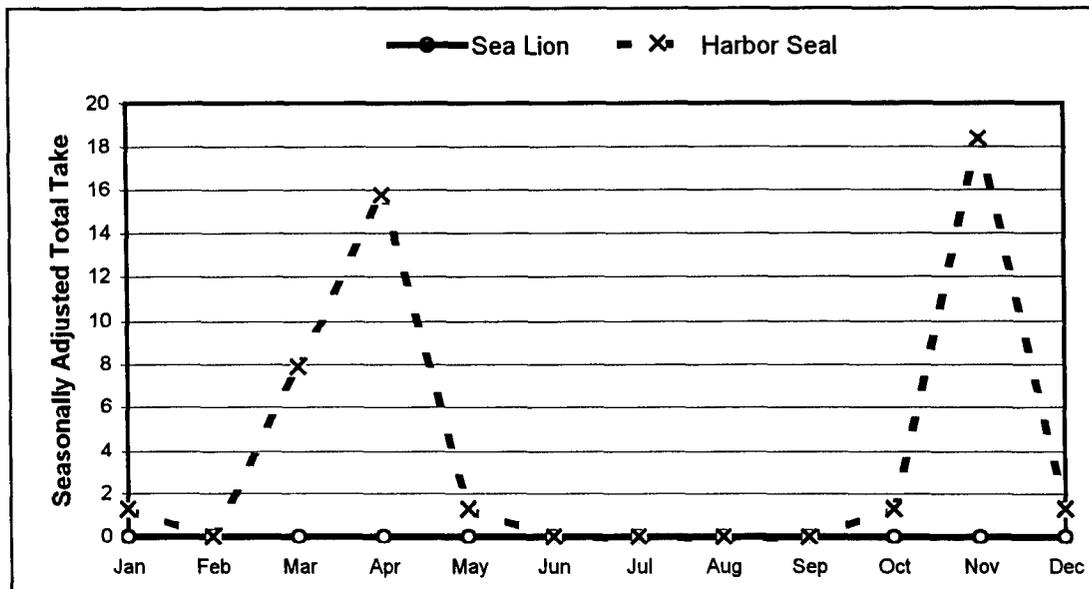
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Chilkat Indian Association, 1997.

**Table 3. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Haines, 1997**

*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	---	11	39.3%	14.4	39.3%
Adult Female	0	---	0.0	---	11	39.3%	14.4	39.3%
Adult Unknown Sex	0	---	0.0	---	2	7.1%	2.6	7.1%
Juvenile Male	0	---	0.0	---	3	10.7%	3.9	10.7%
Juvenile Female	0	---	0.0	---	1	3.6%	1.3	3.6%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>28</b>	<b>100.0%</b>	<b>36.8</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Chilkat Indian Association, 1997.

**Table 4. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Hoonah, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	<b>Total Referred Households</b>	<b>62</b>
	<b>Surveyed Households</b>	<b>50</b>
	<b>Sampling Fraction</b>	<b>80.6%</b>
	<b>Sample Household Members</b>	<b>185</b>
	<b>Estimated Household Members</b>	<b>229.4</b>
	<b>Estimated Native Population</b>	<b>582.4</b>

**HARVEST AND USE INFORMATION**

	<i>Percentage of Sample Households:</i>		<i>Estimated Community Harvest and Take (Expanded):</i>	
	<u>Sea Lion</u>	<u>Harbor Seal</u>	<u>Sea Lion</u>	<u>Harbor Seal</u>
Used	0.0%	44.0%	Total Number Harvested	0.0 143.8
Hunted	0.0%	44.0%	Total Number Struck and Lost	0.0 9.9
Harvested	0.0%	44.0%	Total Number Taken	0.0 153.8
Received	0.0%	4.0%		
Gave Away	0.0%	30.0%	Number Harvested Per Capita	0.00 0.25

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	4	4	3	0	8	2	3	6	18	22	31	15	0	116
Struck & Lost	0	0	0	0	0	0	4	1	0	3	0	0	0	8
Total Take	4	4	3	0	8	2	7	7	18	25	31	15	0	124
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	5.0	5.0	3.7	0.0	9.9	2.5	3.7	7.4	22.3	27.3	38.4	18.6	0.0	143.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	5.0	1.2	0.0	3.7	0.0	0.0	0.0	9.9
Total Take	5.0	5.0	3.7	0.0	9.9	2.5	8.7	8.7	22.3	31.0	38.4	18.6	0.0	153.8
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	5.0	5.0	3.7	0.0	9.9	2.5	3.7	7.4	22.3	27.3	38.4	18.6		143.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	5.0	1.2	0.0	3.7	0.0	0.0		9.9
Total Take	5.0	5.0	3.7	0.0	9.9	2.5	8.7	8.7	22.3	31.0	38.4	18.6		153.8
Total Take (%)	3.2%	3.2%	2.4%	0.0%	6.5%	1.6%	5.6%	5.6%	14.5%	20.2%	25.0%	12.1%		100.0%
Cum. Take	5.0	9.9	13.6	13.6	23.6	26.0	34.7	43.4	65.7	96.7	135.2	153.8		
Cum. Take (%)	3.2%	6.5%	8.9%	8.9%	15.3%	16.9%	22.6%	28.2%	42.7%	62.9%	87.9%	100.0%		

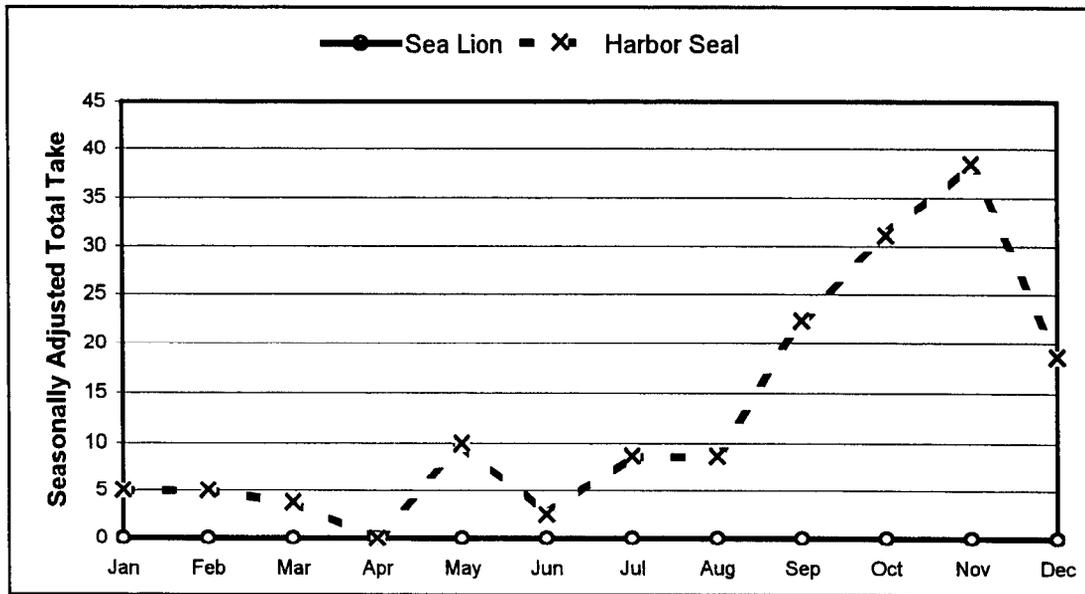
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Hoonah Traditional Council, 1997.

**Table 4. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Hoonah, 1997**

*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	---	39	33.6%	48.4	33.6%
Adult Female	0	---	0.0	---	8	6.9%	9.9	6.9%
Adult Unknown Sex	0	---	0.0	---	69	59.5%	85.6	59.5%
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	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>116</b>	<b>100.0%</b>	<b>143.8</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	350.2	24.8	375.0
1993	0.0	0.0	0.0	1993	324.4	35.8	360.2
1994	0.0	0.0	0.0	1994	240.7	15.0	255.8
1995	0.0	0.0	0.0	1995	236.6	19.7	256.3
1996	0.0	0.0	0.0	1996	359.7	48.6	408.3
1997	0.0	0.0	0.0	1997	143.8	9.9	153.8

SOURCE: Alaska Department 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, 1997.

**Table 5. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Hydaburg, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	14
	Surveyed Households	11
	Sampling Fraction	78.6%
	Sample Household Members	33
	Estimated Household Members	42.0
	Estimated Native Population	342.0

**HARVEST AND USE INFORMATION**

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	0.0%	45.5%	Total Number Harvested	0.0	11.5
Hunted	0.0%	36.4%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	36.4%	Total Number Taken	0.0	11.5
Received	0.0%	18.2%			
Gave Away	0.0%	27.3%	Number Harvested Per Capita	0.00	0.03

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

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	1	0	4	0	1	0	0	1	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	0	4	0	1	0	0	1	2	0	0	9
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	1.3	0.0	5.1	0.0	1.3	0.0	0.0	1.3	2.5	0.0	0.0	11.5
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	1.3	0.0	5.1	0.0	1.3	0.0	0.0	1.3	2.5	0.0	0.0	11.5
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	1.3	0.0	5.1	0.0	1.3	0.0	0.0	1.3	2.5	0.0	0.0	11.5
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	1.3	0.0	5.1	0.0	1.3	0.0	0.0	1.3	2.5	0.0	0.0	11.5
Total Take (%)	0.0%	0.0%	11.1%	0.0%	44.4%	0.0%	11.1%	0.0%	0.0%	11.1%	22.2%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	1.3	1.3	6.4	6.4	7.6	7.6	7.6	8.9	11.5	11.5	11.5	11.5
Cum. Take (%)	0.0%	0.0%	11.1%	11.1%	55.6%	55.6%	66.7%	66.7%	66.7%	77.8%	100.0%	100.0%	100.0%	100.0%

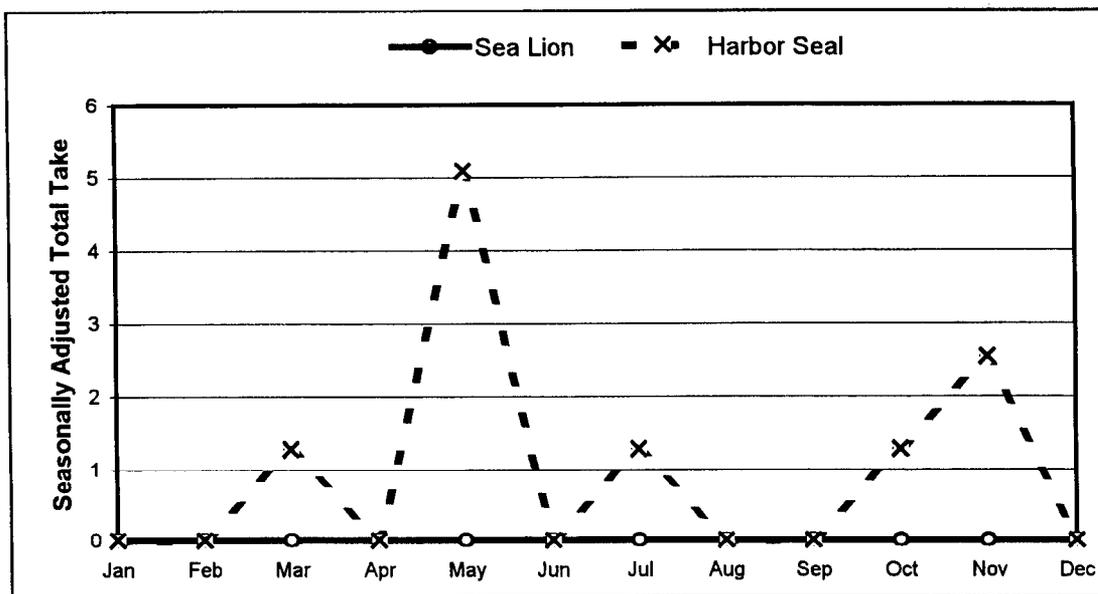
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the City of Hydaburg and Haida Corporation, 1997.

**Table 5. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Hydaburg, 1997**

*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%	8.9	77.8%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	2	22.2%	2.5	22.2%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>9</b>	<b>100.0%</b>	<b>11.5</b>	<b>100.0%</b>

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



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

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

SOURCE: Alaska Department 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, 1997.

**Table 6. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Juneau, 1997**

**SAMPLING DESIGN:  
CHAIN REFERRAL**

Total Referred Households	77
Surveyed Households	35
Sampling Fraction	45.5%
Sample Household Members	128
Estimated Household Members	281.6
Estimated Native Population	3462.0

**HARVEST AND USE INFORMATION**

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):	
	Sea Lion	Harbor Seal	Sea Lion	Harbor Seal
Used	0.0%	62.9%	Total Number Harvested	0.0 99.0
Hunted	0.0%	34.3%	Total Number Struck and Lost	0.0 0.0
Harvested	0.0%	28.6%	Total Number Taken	0.0 99.0
Received	0.0%	37.1%		
Gave Away	0.0%	28.6%	Number Harvested Per Capita	0.00 0.03

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

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	0	0	0	0	0	0	20	18	2	0	3	0	45
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	0	0	0	0	0	0	20	18	2	0	3	0	45
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.4	0.0	0.0	0.0	0.0	0.0	0.0	44.0	39.6	4.4	0.0	6.6	0.0	99.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	4.4	0.0	0.0	0.0	0.0	0.0	0.0	44.0	39.6	4.4	0.0	6.6	0.0	99.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.4	0.0	0.0	0.0	0.0	0.0	0.0	44.0	39.6	4.4	0.0	6.6	0.0	99.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	4.4	0.0	0.0	0.0	0.0	0.0	0.0	44.0	39.6	4.4	0.0	6.6	0.0	99.0
Total Take (%)	4.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	44.4%	40.0%	4.4%	0.0%	6.7%	0.0%	100.0%
Cum. Take	4.4	4.4	4.4	4.4	4.4	4.4	4.4	48.4	88.0	92.4	92.4	99.0	99.0	99.0
Cum. Take (%)	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	4.4%	48.9%	88.9%	93.3%	93.3%	100.0%	100.0%	100.0%

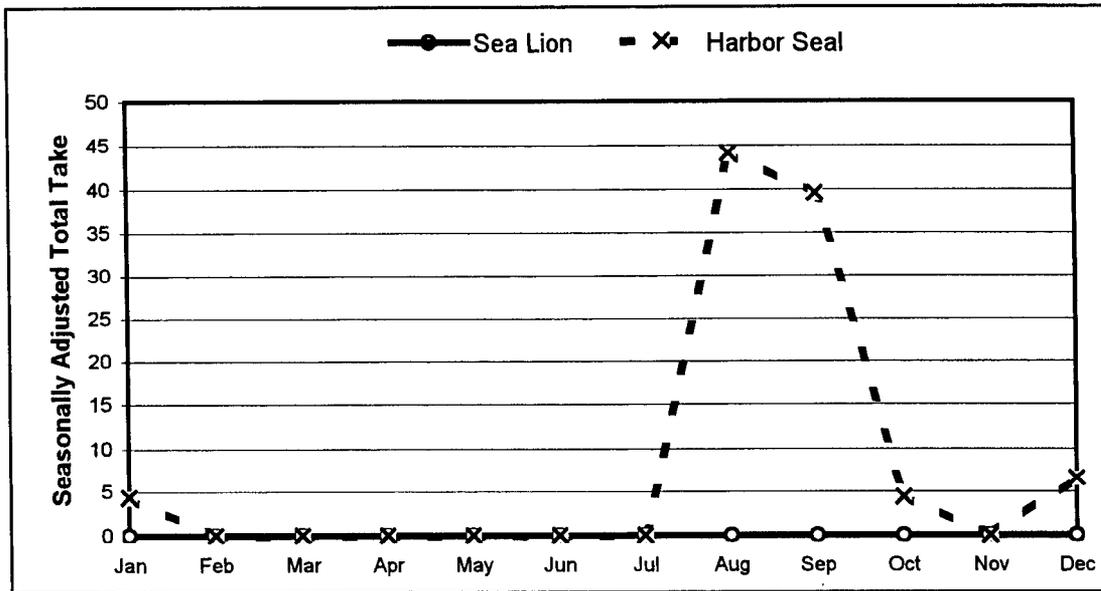
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Tlingit and Haida Central Council, Sealaska, Auke Tribe Council, and ANB/ANS, 1997.

**Table 6. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Juneau, 1997**

*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	---	28	62.2%	61.6	62.2%
Adult Female	0	---	0.0	---	3	6.7%	6.6	6.7%
Adult Unknown Sex	0	---	0.0	---	10	22.2%	22.0	22.2%
Juvenile Male	0	---	0.0	---	4	8.9%	8.8	8.9%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>45</b>	<b>100.0%</b>	<b>99.0</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	122.6	7.6	130.2
1993	0.0	0.0	0.0	1993	59.0	21.6	80.6
1994	1.1	0.0	1.1	1994	78.6	13.5	92.1
1995	0.0	0.0	0.0	1995	42.9	1.3	44.2
1996	0.0	0.0	0.0	1996	32.8	1.3	34.1
1997	0.0	0.0	0.0	1997	99.0	0.0	99.0

SOURCE: Alaska Department 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, 1997.

**Table 7. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kake, 1997**

**SAMPLING DESIGN:**

**CHAIN REFERRAL**

Total Referred Households	76
Surveyed Households	60
Sampling Fraction	78.9%
Sample Household Members	209
Estimated Household Members	264.7
Estimated Native Population	590.6

**HARVEST AND USE INFORMATION**

*Percentage of Sample Households:*

	Sea Lion	Harbor Seal
Used	0.0%	68.3%
Hunted	0.0%	23.3%
Harvested	0.0%	20.0%
Received	0.0%	51.7%
Gave Away	0.0%	16.7%

*Estimated Community Harvest and Take (Expanded):*

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	68.4
Total Number Struck and Lost	0.0	7.6
Total Number Taken	0.0	76.0
Number Harvested Per Capita	0.00	0.12

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	9	8	0	0	0	0	0	1	10	10	10	6	0	54
Struck & Lost	1	0	0	0	0	0	0	1	0	2	0	2	0	6
Total Take	10	8	0	0	0	0	0	2	10	12	10	8	0	60
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	11.4	10.1	0.0	0.0	0.0	0.0	0.0	1.3	12.7	12.7	12.7	7.6	0.0	68.4
Struck & Lost	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.5	0.0	2.5	0.0	7.6
Total Take	12.7	10.1	0.0	0.0	0.0	0.0	0.0	2.5	12.7	15.2	12.7	10.1	0.0	76.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	11.4	10.1	0.0	0.0	0.0	0.0	0.0	1.3	12.7	12.7	12.7	7.6	0.0	68.4
Struck & Lost	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.5	0.0	2.5	0.0	7.6
Total Take	12.7	10.1	0.0	0.0	0.0	0.0	0.0	2.5	12.7	15.2	12.7	10.1	0.0	76.0
Total Take (%)	16.7%	13.3%	0.0%	0.0%	0.0%	0.0%	0.0%	3.3%	16.7%	20.0%	16.7%	13.3%	0.0%	100.0%
Cum. Take	12.7	22.8	22.8	22.8	22.8	22.8	22.8	25.3	38.0	53.2	65.9	76.0	76.0	76.0
Cum. Take (%)	16.7%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%	33.3%	50.0%	70.0%	86.7%	100.0%	100.0%	100.0%

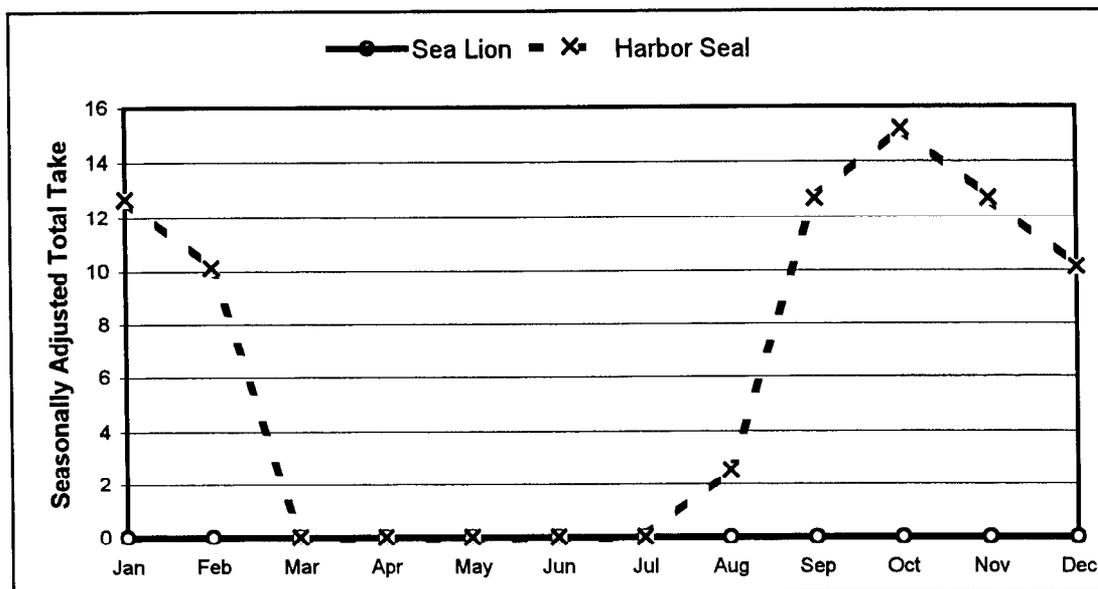
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Organized Village of Kake and City of Kake, 1997.

**Table 7. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kake, 1997**

*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	13.0%	8.9	13.0%
Adult Female	0	---	0.0	---	6	11.1%	7.6	11.1%
Adult Unknown Sex	0	---	0.0	---	41	75.9%	51.9	75.9%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>54</b>	<b>100.0%</b>	<b>68.4</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	173.9	12.3	186.2
1993	0.0	0.0	0.0	1993	100.8	15.2	115.9
1994	1.2	0.0	1.2	1994	99.3	7.4	106.6
1995	0.0	0.0	0.0	1995	72.0	1.5	73.5
1996	0.0	0.0	0.0	1996	86.4	0.0	86.4
1997	0.0	0.0	0.0	1997	68.4	7.6	76.0

SOURCE: Alaska Department 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, 1997.

**Table 8. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ketchikan, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	<b>Total Referred Households</b>	13
	<b>Surveyed Households</b>	9
	<b>Sampling Fraction</b>	69.2%
	<b>Sample Household Members</b>	19
	<b>Estimated Household Members</b>	27.4
	<b>Estimated Native Population</b>	1614.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	88.9%	Total Number Harvested	0.0	27.4
Hunted	0.0%	33.3%	Total Number Struck and Lost	0.0	4.3
Harvested	0.0%	22.2%	Total Number Taken	0.0	31.8
Received	0.0%	77.8%			
Gave Away	0.0%	22.2%	Number Harvested Per Capita	0.00	0.02

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	0	3	3	3	10	19
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Total Take	0	0	0	0	0	0	0	0	0	3	3	3	13	22
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	4.3	14.4	27.4
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	4.3	4.3
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	4.3	18.8	31.8
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	9.1	9.1		27.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4		4.3
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	10.6	10.6		31.8
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	33.3%	33.3%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	21.2	31.8		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	66.7%	100.0%		

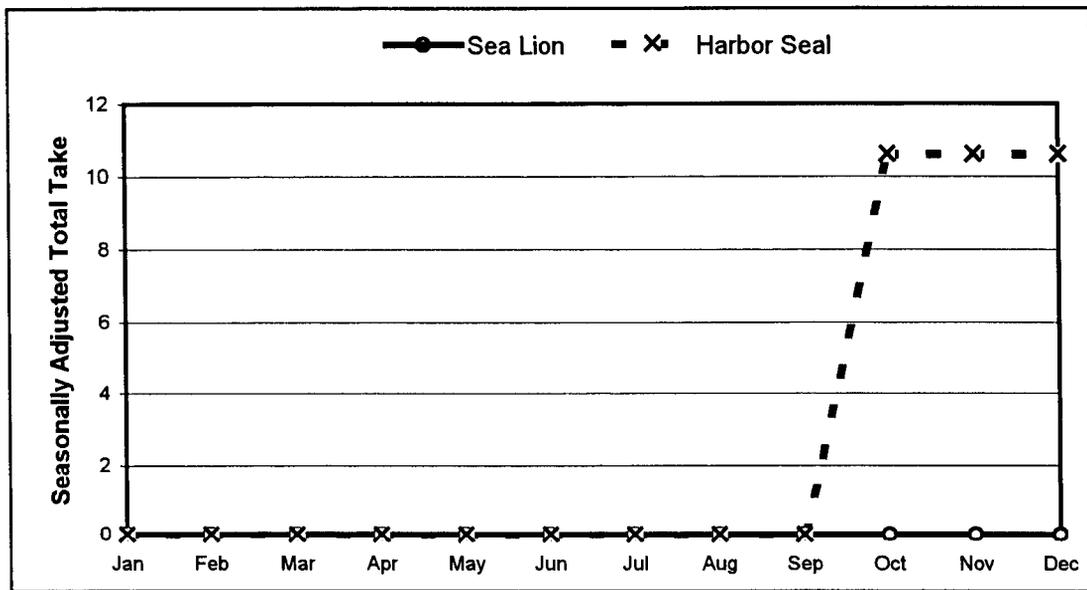
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Ketchikan IRA Council and Ketchikan Indian Corporation, 1997.

**Table 8. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ketchikan, 1997**

*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	15.8%	4.3	15.8%
Adult Female	0	---	0.0	---	6	31.6%	8.7	31.6%
Adult Unknown Sex	0	---	0.0	---	10	52.6%	14.4	52.6%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>19</b>	<b>100.0%</b>	<b>27.4</b>	<b>100.0%</b>

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



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

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

SOURCE: Alaska Department 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, 1997.

**Table 9. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Klawock, 1997**

*SAMPLING DESIGN:  
CHAIN REFERRAL*

Total Referred Households	25
Surveyed Households	25
Sampling Fraction	100.0%
Sample Household Members	92
Estimated Household Members	92.0
Estimated Native Population	392.0

*HARVEST AND USE INFORMATION*

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea <u>Lion</u>	Harbor <u>Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	56.0%	Total Number Harvested	0.0	94.0
Hunted	0.0%	52.0%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	52.0%	Total Number Taken	0.0	94.0
Received	0.0%	24.0%			
Gave Away	0.0%	52.0%	Number Harvested Per Capita	0.00	0.24

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

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	16	20	26	6	0	3	0	0	0	0	10	13	0	94
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	16	20	26	6	0	3	0	0	0	0	10	13	0	94
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	16.0	20.0	26.0	6.0	0.0	3.0	0.0	0.0	0.0	0.0	10.0	13.0	0.0	94.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	16.0	20.0	26.0	6.0	0.0	3.0	0.0	0.0	0.0	0.0	10.0	13.0	0.0	94.0
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	16.0	20.0	26.0	6.0	0.0	3.0	0.0	0.0	0.0	0.0	10.0	13.0	0.0	94.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	16.0	20.0	26.0	6.0	0.0	3.0	0.0	0.0	0.0	0.0	10.0	13.0	0.0	94.0
Total Take (%)	17.0%	21.3%	27.7%	6.4%	0.0%	3.2%	0.0%	0.0%	0.0%	0.0%	10.6%	13.8%	0.0%	100.0%
Cum. Take	16.0	36.0	62.0	68.0	68.0	71.0	71.0	71.0	71.0	71.0	81.0	94.0	94.0	94.0
Cum. Take (%)	17.0%	38.3%	66.0%	72.3%	72.3%	75.5%	75.5%	75.5%	75.5%	75.5%	86.2%	100.0%	100.0%	100.0%

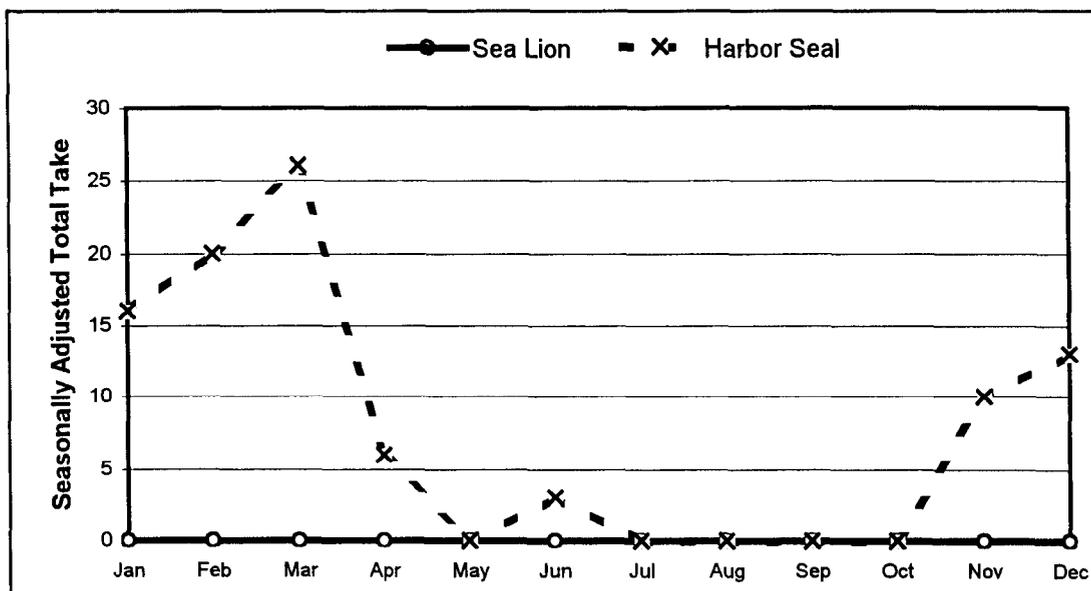
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Klawock Cooperative Association and Klawock Heenya Corporation, 1997.

**Table 9. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Klawock, 1997**

*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	---	58	61.7%	58.0	61.7%
Adult Female	0	---	0.0	---	6	6.4%	6.0	6.4%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	23	24.5%	23.0	24.5%
Juvenile Female	0	---	0.0	---	6	6.4%	6.0	6.4%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	1	1.1%	1.0	1.1%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>94</b>	<b>100.0%</b>	<b>94.0</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	1.4	0.0	1.4	1992	39.0	1.4	40.3
1993	0.0	0.0	0.0	1993	39.8	0.0	39.8
1994	0.0	0.0	0.0	1994	71.1	0.0	71.1
1995	0.0	0.0	0.0	1995	263.8	0.0	263.8
1996	0.0	0.0	0.0	1996	69.8	0.0	69.8
1997	0.0	0.0	0.0	1997	94.0	0.0	94.0

SOURCE: Alaska Department 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, 1997.

**Table 10. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Klukwan, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	<b>Total Referred Households</b>	9
	<b>Surveyed Households</b>	8
	<b>Sampling Fraction</b>	88.9%
	<b>Sample Household Members</b>	30
	<b>Estimated Household Members</b>	33.8
	<b>Estimated Native Population</b>	112.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	<u>Sea Lion</u>	<u>Harbor Seal</u>		<u>Sea Lion</u>	<u>Harbor Seal</u>
Used	0.0%	25.0%	Total Number Harvested	0.0	1.1
Hunted	0.0%	25.0%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	12.5%	Total Number Taken	0.0	1.1
Received	0.0%	12.5%			
Gave Away	0.0%	12.5%	Number Harvested Per Capita	0.00	0.01

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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
Total Take (%)	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	1.1	1.1	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%	100.0%	100.0%

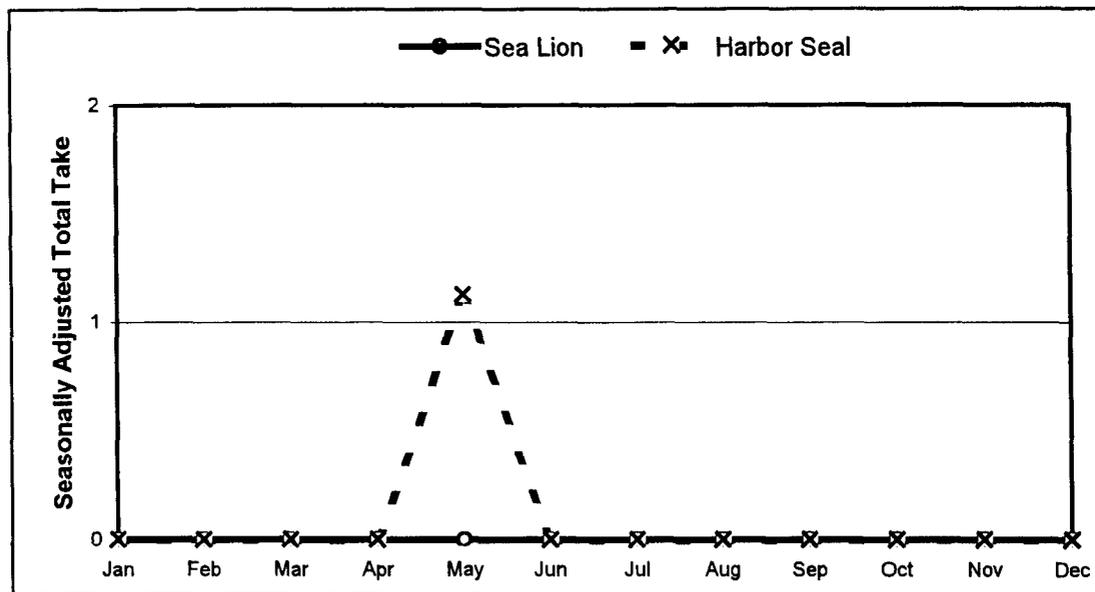
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Chilkat Indian Village, 1997.

**Table 10. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Klukwan, 1997**

*HARVEST BY AGE AND SEX*

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Adult Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	--	0.0	--	1	100.0%	1.1	100.0%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>1</b>	<b>100.0%</b>	<b>1.1</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	8.0	2.0	10.0
1993	0.0	0.0	0.0	1993	1.2	0.0	1.2
1994	0.0	0.0	0.0	1994	3.8	1.3	5.0
1995	0.0	0.0	0.0	1995	35.2	6.4	41.6
1996	0.0	0.0	0.0	1996	6.3	0.0	6.3
1997	0.0	0.0	0.0	1997	1.1	0.0	1.1

SOURCE: Alaska Department 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, 1997.

**Table 11. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Pelican, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	<b>Total Referred Households</b>	19
	<b>Surveyed Households</b>	17
	<b>Sampling Fraction</b>	89.5%
	<b>Sample Household Members</b>	49
	<b>Estimated Household Members</b>	54.8
	<b>Estimated Native Population</b>	65.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea <u>Lion</u>	Harbor <u>Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	76.5%	Total Number Harvested	0.0	14.5
Hunted	0.0%	35.3%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	35.3%	Total Number Taken	0.0	14.5
Received	0.0%	47.1%			
Gave Away	0.0%	47.1%	Number Harvested Per Capita	0.00	0.22

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	1	7	2	0	0	0	1	0	2	0	0	0	13
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	1	7	2	0	0	0	1	0	2	0	0	0	13
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	1.1	7.8	2.2	0.0	0.0	0.0	1.1	0.0	2.2	0.0	0.0	0.0	14.5
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	1.1	7.8	2.2	0.0	0.0	0.0	1.1	0.0	2.2	0.0	0.0	0.0	14.5
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	1.1	7.8	2.2	0.0	0.0	0.0	1.1	0.0	2.2	0.0	0.0	0.0	14.5
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	1.1	7.8	2.2	0.0	0.0	0.0	1.1	0.0	2.2	0.0	0.0	0.0	14.5
Total Take (%)	0.0%	7.7%	53.8%	15.4%	0.0%	0.0%	0.0%	7.7%	0.0%	15.4%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	1.1	8.9	11.2	11.2	11.2	11.2	12.3	12.3	14.5	14.5	14.5	14.5	14.5
Cum. Take (%)	0.0%	7.7%	61.5%	76.9%	76.9%	76.9%	76.9%	84.6%	84.6%	100.0%	100.0%	100.0%	100.0%	100.0%

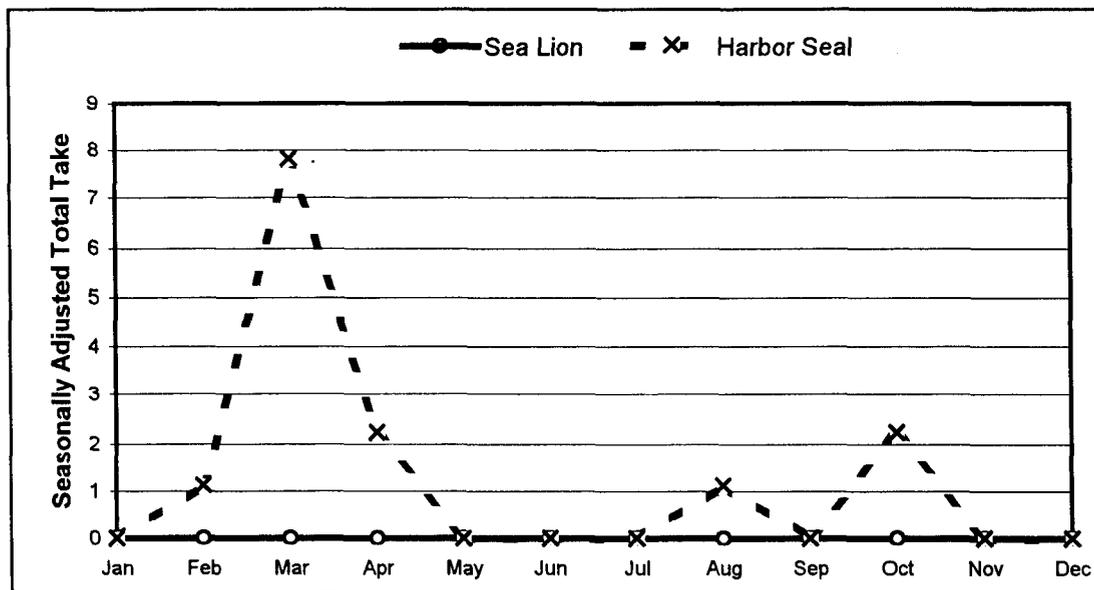
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the City of Pelican, Tlingit and Haida Indians of Pelican Community Council, 1997.

**Table 11. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Pelican, 1997**

*HARVEST BY AGE AND SEX*

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	9	69.2%	10.1	69.2%
Adult Female	0	---	0.0	---	4	30.8%	4.5	30.8%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>13</b>	<b>100.0%</b>	<b>14.5</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	8.3	1.4	9.7
1993	0.0	0.0	0.0	1993	5.3	1.1	6.4
1994	0.0	0.0	0.0	1994	4.4	1.1	5.6
1995	0.0	0.0	0.0	1995	13.5	0.0	13.5
1996	0.0	0.0	0.0	1996	15.4	0.0	15.4
1997	0.0	0.0	0.0	1997	14.5	0.0	14.5

SOURCE: Alaska Department 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, 1997.

**Table 12. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Petersburg, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	<b>Total Referred Households</b>	28
	<b>Surveyed Households</b>	26
	<b>Sampling Fraction</b>	92.9%
	<b>Sample Household Members</b>	78
	<b>Estimated Household Members</b>	84.0
	<b>Estimated Native Population</b>	334.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea <u>Lion</u>	Harbor <u>Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	38.5%	Total Number Harvested	0.0	11.8
Hunted	0.0%	46.2%	Total Number Struck and Lost	0.0	4.3
Harvested	0.0%	30.8%	Total Number Taken	0.0	16.2
Received	0.0%	7.7%			
Gave Away	0.0%	30.8%	Number Harvested Per Capita	0.00	0.04

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	1	0	0	0	0	0	0	2	7	0	1	0	11
Struck & Lost	0	0	0	0	0	0	0	0	0	3	1	0	0	4
Total Take	0	1	0	0	0	0	0	0	2	10	1	1	0	15
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	2.2	7.5	0.0	1.1	0.0	11.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	1.1	0.0	0.0	4.3
Total Take	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	2.2	10.8	1.1	1.1	0.0	16.2
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	2.2	7.5	0.0	1.1		11.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	1.1	0.0		4.3
Total Take	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	2.2	10.8	1.1	1.1		16.2
Total Take (%)	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.3%	66.7%	6.7%	6.7%		100.0%
Cum. Take	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.2	14.0	15.1	16.2		
Cum. Take (%)	0.0%	6.7%	6.7%	6.7%	6.7%	6.7%	6.7%	6.7%	20.0%	86.7%	93.3%	100.0%		

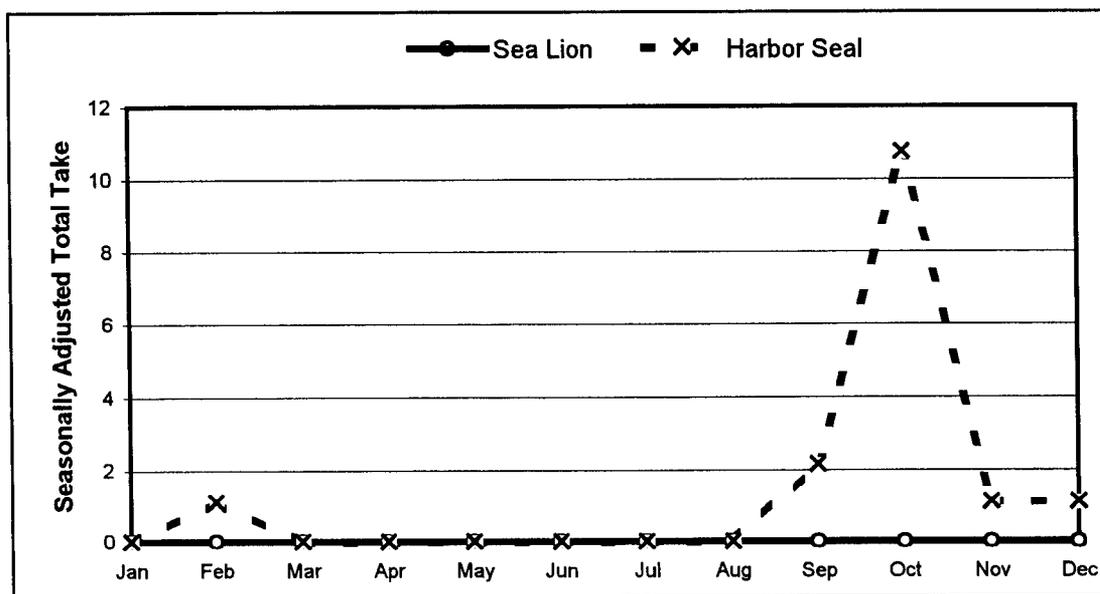
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Petersburg Indian Association, 1997.

**Table 12. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Petersburg, 1997**

*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	45.5%	5.4	45.5%
Adult Female	0	---	0.0	---	2	18.2%	2.2	18.2%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	2	18.2%	2.2	18.2%
Juvenile Female	0	---	0.0	---	2	18.2%	2.2	18.2%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>11</b>	<b>100.0%</b>	<b>11.8</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	22.4	2.6	25.0
1993	0.0	0.0	0.0	1993	4.5	4.5	9.0
1994	0.0	0.0	0.0	1994	15.2	1.3	16.4
1995	0.0	0.0	0.0	1995	13.6	1.1	14.7
1996	0.0	0.0	0.0	1996	19.5	2.4	21.9
1997	0.0	0.0	0.0	1997	11.8	4.3	16.2

SOURCE: Alaska Department 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, 1997.

**Table 13. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Saxman, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	12
	Surveyed Households	12
	Sampling Fraction	100.0%
	Sample Household Members	48
	Estimated Household Members	48.0
	Estimated Native Population	220.2

**HARVEST AND USE INFORMATION**

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	0.0%	50.0%	Total Number Harvested	0.0	11.0
Hunted	0.0%	50.0%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	16.7%	Total Number Taken	0.0	11.0
Received	0.0%	41.7%			
Gave Away	0.0%	16.7%	Number Harvested Per Capita	0.00	0.05

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

HARBOR SEAL HARVEST BY MONTH													Unknown 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	0	0	0	0	1	1	2	2	4	0	11
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	1	0	0	0	0	1	1	2	2	4	0	11
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	2.0	4.0	0.0	11.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	2.0	4.0	0.0	11.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	2.0	4.0	0.0	11.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	2.0	4.0	0.0	11.0
Total Take (%)	0.0%	0.0%	9.1%	0.0%	0.0%	0.0%	0.0%	9.1%	9.1%	18.2%	18.2%	36.4%	0.0%	100.0%
Cum. Take	0.0	0.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	5.0	7.0	11.0	0.0	11.0
Cum. Take (%)	0.0%	0.0%	9.1%	9.1%	9.1%	9.1%	9.1%	18.2%	27.3%	45.5%	63.6%	100.0%	0.0%	100.0%

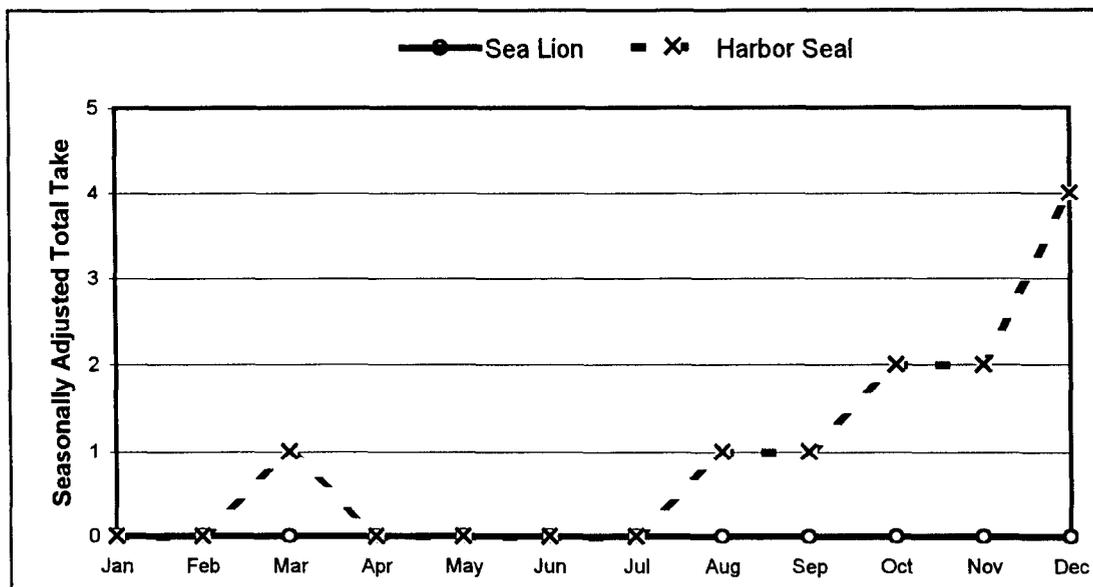
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the City of Saxman and Saxman IRA Council, 1997.

**Table 13. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Saxman, 1997**

*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	---	11	100.0%	11.0	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%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>11</b>	<b>100.0%</b>	<b>11.0</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	22.2	1.2	23.5
1993	0.0	0.0	0.0	1993	5.6	0.0	5.6
1994	0.0	0.0	0.0	1994	16.5	0.0	16.5
1995	0.0	0.0	0.0	1995	15.9	0.0	15.9
1996	0.0	0.0	0.0	1996	4.9	0.0	4.9
1997	0.0	0.0	0.0	1997	11.0	0.0	11.0

SOURCE: Alaska Department 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, 1997.

**Table 14. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Sitka, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	<b>Total Referred Households</b>	100
	<b>Surveyed Households</b>	81
	<b>Sampling Fraction</b>	81.0%
	<b>Sample Household Members</b>	253
	<b>Estimated Household Members</b>	312.3
	<b>Estimated Native Population</b>	1765.6

**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	0.0%	88.9%	Total Number Harvested	0.0	150.6
Hunted	0.0%	63.0%	Total Number Struck and Lost	0.0	3.7
Harvested	0.0%	53.1%	Total Number Taken	0.0	154.3
Received	0.0%	63.0%			
Gave Away	0.0%	60.5%	Number Harvested Per Capita	0.00	0.09

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	19	36	33	8	1	5	9	6	2	3	0	0	122
Struck & Lost	0	0	2	1	0	0	0	0	0	0	0	0	0	3
Total Take	0	19	38	34	8	1	5	9	6	2	3	0	0	125
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	23.5	44.4	40.7	9.9	1.2	6.2	11.1	7.4	2.5	3.7	0.0	0.0	150.6
Struck & Lost	0.0	0.0	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
Total Take	0.0	23.5	46.9	42.0	9.9	1.2	6.2	11.1	7.4	2.5	3.7	0.0	0.0	154.3
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	23.5	44.4	40.7	9.9	1.2	6.2	11.1	7.4	2.5	3.7	0.0	0.0	150.6
Struck & Lost	0.0	0.0	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
Total Take	0.0	23.5	46.9	42.0	9.9	1.2	6.2	11.1	7.4	2.5	3.7	0.0	0.0	154.3
Total Take (%)	0.0%	15.2%	30.4%	27.2%	6.4%	0.8%	4.0%	7.2%	4.8%	1.6%	2.4%	0.0%	0.0%	100.0%
Cum. Take	0.0	23.5	70.4	112.3	122.2	123.5	129.6	140.7	148.1	150.6	154.3	154.3	154.3	154.3
Cum. Take (%)	0.0%	15.2%	45.6%	72.8%	79.2%	80.0%	84.0%	91.2%	96.0%	97.6%	100.0%	100.0%	100.0%	100.0%

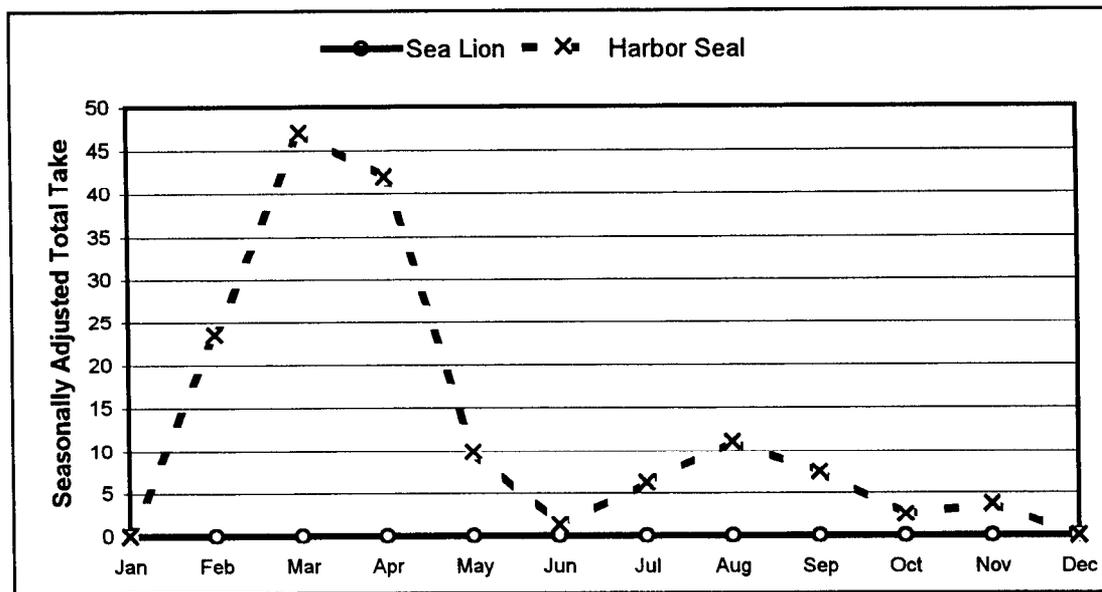
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the ANB and Sitka Tribal Association, 1997.

**Table 14. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Sitka, 1997**

*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	---	49	40.2%	60.5	40.2%
Adult Female	0	---	0.0	---	13	10.7%	16.0	10.7%
Adult Unknown Sex	0	---	0.0	---	3	2.5%	3.7	2.5%
Juvenile Male	0	---	0.0	---	29	23.8%	35.8	23.8%
Juvenile Female	0	---	0.0	---	11	9.0%	13.6	9.0%
Juvenile Unknown Sex	0	---	0.0	---	2	1.6%	2.5	1.6%
Pup Male	0	---	0.0	---	1	0.8%	1.2	0.8%
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	---	12	9.8%	14.8	9.8%
Female Unknown Age	0	---	0.0	---	2	1.6%	2.5	1.6%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>122</b>	<b>100.0%</b>	<b>150.6</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	3.8	1.3	5.0	1992	124.7	21.4	146.1
1993	0.0	1.1	1.1	1993	109.3	20.6	129.9
1994	1.1	1.1	2.2	1994	110.5	20.1	130.6
1995	0.0	0.0	0.0	1995	93.8	6.3	100.0
1996	0.0	0.0	0.0	1996	126.8	4.1	130.9
1997	0.0	0.0	0.0	1997	150.6	3.7	154.3

SOURCE: Alaska Department 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, 1997.

**Table 15. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Wrangell, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	<b>Total Referred Households</b>	7
	<b>Surveyed Households</b>	6
	<b>Sampling Fraction</b>	85.7%
	<b>Sample Household Members</b>	16
	<b>Estimated Household Members</b>	18.7
	<b>Estimated Native Population</b>	507.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	<u>Sea Lion</u>	<u>Harbor Seal</u>		<u>Sea Lion</u>	<u>Harbor Seal</u>
Used	0.0%	33.3%	Total Number Harvested	0.0	68.8
Hunted	0.0%	33.3%	Total Number Struck and Lost	0.0	29.2
Harvested	0.0%	33.3%	Total Number Taken	0.0	98.0
Received	0.0%	0.0%			
Gave Away	0.0%	33.3%	Number Harvested Per Capita	0.00	0.14

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	4	21	0	0	0	0	0	0	17	17	0	59
Struck & Lost	0	0	0	4	0	0	0	0	0	0	10	11	0	25
Total Take	0	0	4	25	0	0	0	0	0	0	27	28	0	84
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	4.7	24.5	0.0	0.0	0.0	0.0	0.0	0.0	19.8	19.8	0.0	68.8
Struck & Lost	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	11.7	12.8	0.0	29.2
Total Take	0.0	0.0	4.7	29.2	0.0	0.0	0.0	0.0	0.0	0.0	31.5	32.7	0.0	98.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	4.7	24.5	0.0	0.0	0.0	0.0	0.0	0.0	19.8	19.8	0.0	68.8
Struck & Lost	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	11.7	12.8	0.0	29.2
Total Take	0.0	0.0	4.7	29.2	0.0	0.0	0.0	0.0	0.0	0.0	31.5	32.7	0.0	98.0
Total Take (%)	0.0%	0.0%	4.8%	29.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	32.1%	33.3%	0.0%	100.0%
Cum. Take	0.0	0.0	4.7	33.8	33.8	33.8	33.8	33.8	33.8	33.8	65.3	98.0	98.0	98.0
Cum. Take (%)	0.0%	0.0%	4.8%	34.5%	34.5%	34.5%	34.5%	34.5%	34.5%	34.5%	66.7%	100.0%	100.0%	100.0%

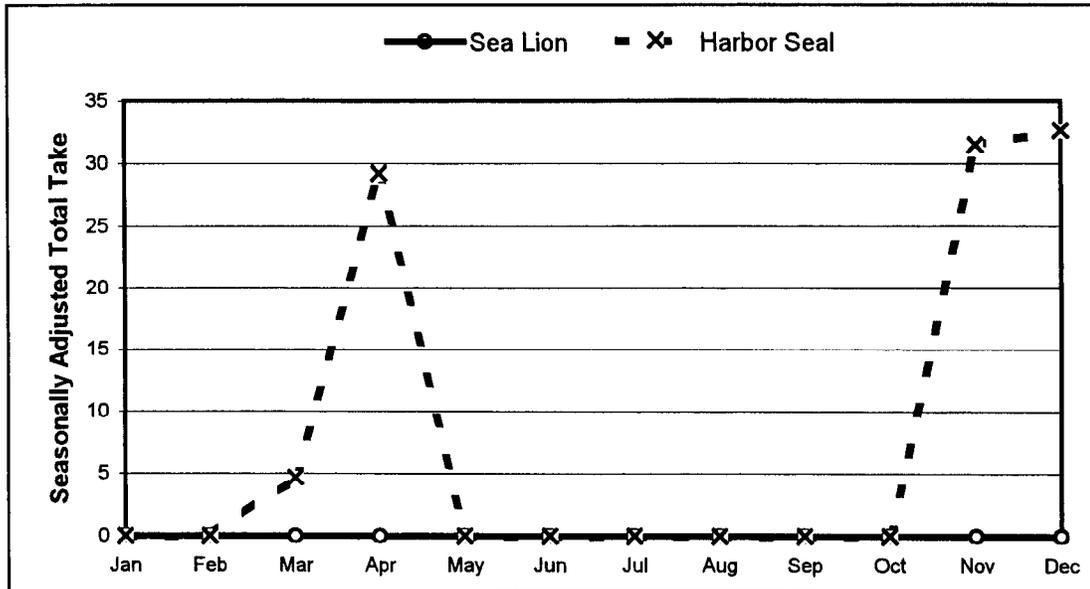
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Wrangell Cooperative Association, 1997.

**Table 15. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Wrangell, 1997**

*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	47.5%	32.7	47.5%
Adult Female	0	---	0.0	---	24	40.7%	28.0	40.7%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	4	6.8%	4.7	6.8%
Juvenile Female	0	---	0.0	---	3	5.1%	3.5	5.1%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>59</b>	<b>100.0%</b>	<b>68.8</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	6.0	8.0	14.0
1993	0.0	0.0	0.0	1993	19.5	9.0	28.5
1994	0.0	0.0	0.0	1994	101.0	27.0	128.0
1995	0.0	0.0	0.0	1995	89.3	22.8	112.0
1996	0.0	0.0	0.0	1996	79.3	22.2	101.5
1997	0.0	0.0	0.0	1997	68.8	29.2	98.0

SOURCE: Alaska Department 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, 1997.

**Table 16. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Yakutat, 1997**

**SAMPLING DESIGN:  
CHAIN REFERRAL**

Total Referred Households	73
Surveyed Households	60
Sampling Fraction	82.2%
Sample Household Members	216
Estimated Household Members	262.8
Estimated Native Population	405.1

**HARVEST AND USE INFORMATION**

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	0.0%	100.0%	Total Number Harvested	0.0	491.5
Hunted	0.0%	73.3%	Total Number Struck and Lost	0.0	139.9
Harvested	0.0%	68.3%	Total Number Taken	0.0	631.5
Received	0.0%	100.0%			
Gave Away	0.0%	98.3%	Number Harvested Per Capita	0.00	1.21

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

HARBOR SEAL HARVEST BY MONTH													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	26	35	39	50	110	11	1	6	19	25	28	30	24	404
Struck & Lost	0	1	2	13	28	1	0	0	4	3	8	7	48	115
Total Take	26	36	41	63	138	12	1	6	23	28	36	37	72	519
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	31.6	42.6	47.5	60.8	133.8	13.4	1.2	7.3	23.1	30.4	34.1	36.5	29.2	491.5
Struck & Lost	0.0	1.2	2.4	15.8	34.1	1.2	0.0	0.0	4.9	3.7	9.7	8.5	58.4	139.9
Total Take	31.6	43.8	49.9	76.7	167.9	14.6	1.2	7.3	28.0	34.1	43.8	45.0	87.6	631.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	33.6	45.3	50.4	64.7	142.3	14.2	1.3	7.8	24.6	32.3	36.2	38.8		491.5
Struck & Lost	0.0	2.1	4.2	27.1	58.5	2.1	0.0	0.0	8.4	6.3	16.7	14.6		139.9
Total Take	33.6	47.4	54.6	91.8	200.8	16.3	1.3	7.8	32.9	38.6	52.9	53.4		631.5
Total Take (%)	5.3%	7.5%	8.7%	14.5%	31.8%	2.6%	0.2%	1.2%	5.2%	6.1%	8.4%	8.5%		100.0%
Cum. Take	33.6	81.0	135.6	227.4	428.2	444.5	445.8	453.6	486.5	525.1	578.0	631.5		
Cum. Take (%)	5.3%	12.8%	21.5%	36.0%	67.8%	70.4%	70.6%	71.8%	77.0%	83.2%	91.5%	100.0%		

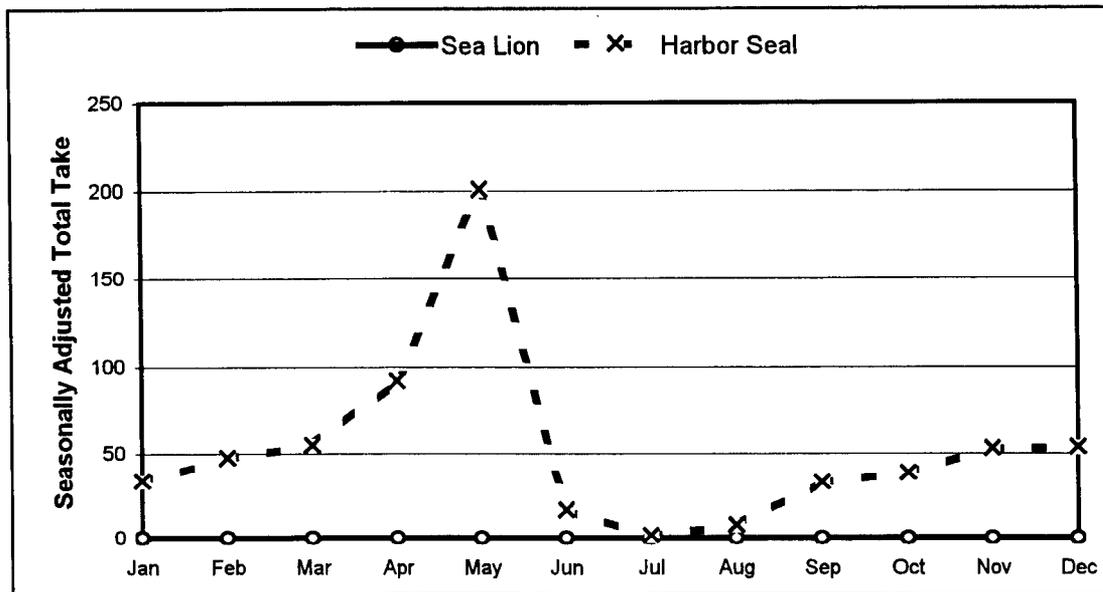
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with assistance from the Yakutat ANB/ANS, Yakutat Native Association, and Yak-Tat Kwaan, Inc., 1997.

**Table 16. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Yakutat, 1997**

*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	---	205	50.7%	249.4	50.7%
Adult Female	0	---	0.0	---	176	43.6%	214.1	43.6%
Adult Unknown Sex	0	---	0.0	---	23	5.7%	28.0	5.7%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>404</b>	<b>100.0%</b>	<b>491.5</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	248.0	61.3	309.3
1993	0.0	0.0	0.0	1993	568.4	57.4	625.8
1994	0.0	0.0	0.0	1994	417.1	35.0	452.1
1995	0.0	0.0	0.0	1995	615.5	79.6	695.1
1996	0.0	0.0	0.0	1996	640.3	124.1	764.5
1997	0.0	0.0	0.0	1997	491.5	139.9	631.5

SOURCE: Alaska Department 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., 1997.

**Table 17. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Chenega Bay, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	15
	Surveyed Households	7
	Sampling Fraction	46.7%
	Sample Household Members	23
	Estimated Household Members	49.3
	Estimated Native Population	49.3

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	0.0%	85.7%	Total Number Harvested	0.0	25.7
Hunted	0.0%	71.4%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	57.1%	Total Number Taken	0.0	25.7
Received	0.0%	85.7%			
Gave Away	0.0%	57.1%	Number Harvested Per Capita	0.00	0.52

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

HARBOR SEAL HARVEST BY MONTH													Unknown 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	1	2	5	1	0	1	0	0	12
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	2	1	2	5	1	0	1	0	0	12
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	4.3	2.1	4.3	10.7	2.1	0.0	2.1	0.0	0.0	25.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	4.3	4.3	2.1	4.3	10.7	2.1	0.0	2.1	0.0	0.0	25.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	4.3	2.1	4.3	10.7	2.1	0.0	2.1	0.0	0.0	25.7
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	4.3	2.1	4.3	10.7	2.1	0.0	2.1	0.0	0.0	25.7
Total Take (%)	0.0%	0.0%	0.0%	0.0%	16.7%	8.3%	16.7%	41.7%	8.3%	0.0%	8.3%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	4.3	6.4	10.7	21.4	23.6	23.6	25.7	25.7	25.7	25.7
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	16.7%	25.0%	41.7%	83.3%	91.7%	91.7%	100.0%	100.0%	100.0%	100.0%

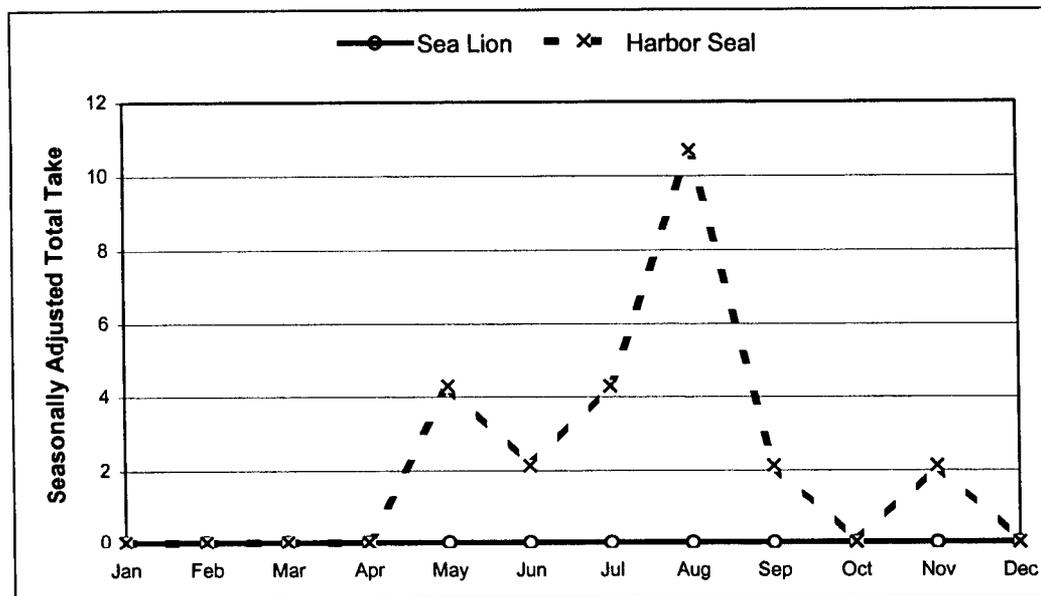
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chenega Bay IRA Council, 1997.

**Table 17. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chenega Bay, 1997**

**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	16.7%	4.3	16.7%
Adult Female	0	--	0.0	--	2	16.7%	4.3	16.7%
Adult Unknown Sex	0	--	0.0	--	6	50.0%	12.9	50.0%
Juvenile Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Female	0	--	0.0	--	1	8.3%	2.1	8.3%
Juvenile Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Male	0	--	0.0	--	1	8.3%	2.1	8.3%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>12</b>	<b>100.0%</b>	<b>25.7</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	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

SOURCE: Alaska Department 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, 1997.

**Table 18. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Cordova, 1997**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>	Total Native Households	15	220	235
	Surveyed Households	12	30	42
	Sampling Fraction	80.0%	13.6%	17.9%
	Sample Household Members	34	89	123
	Estimated Household Members	42.5	652.7	695.2
	Estimated Native Population	---	---	695.2

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>				<i>Estimated Community Harvest and Take (Expanded):</i>			
		<u>Sea</u>	<u>Harbor</u>			<u>Sea</u>	<u>Harbor</u>
		<u>Lion</u>	<u>Seal</u>			<u>Lion</u>	<u>Seal</u>
Used	0.0%	30.8%		Total Number Harvested	0.0	120.8	
Hunted	0.0%	23.5%		Total Number Struck and Lost	0.0	0.0	
Harvested	0.0%	19.9%		Total Number Taken	0.0	120.8	
Received	0.0%	13.1%					
Gave Away	0.0%	19.3%		Number Harvested Per Capita	0.00	0.19	

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

<i>HARBOR SEAL HARVEST BY MONTH</i>													<u>Unknown</u>	<u>Total</u>
	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Month</u>	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	1	4	1	1	1	4	8	4	6	10	6	2	0	48
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	4	1	1	1	4	8	4	6	10	6	2	0	48
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.3	5.0	1.3	1.3	1.3	11.1	10.0	11.1	19.7	36.8	13.6	8.6	0.0	120.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	1.3	5.0	1.3	1.3	1.3	11.1	10.0	11.1	19.7	36.8	13.6	8.6	0.0	120.8
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.3	5.0	1.3	1.3	1.3	11.1	10.0	11.1	19.7	36.8	13.6	8.6	0.0	120.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	1.3	5.0	1.3	1.3	1.3	11.1	10.0	11.1	19.7	36.8	13.6	8.6	0.0	120.8
Total Take (%)	1.0%	4.1%	1.0%	1.0%	1.0%	9.2%	8.3%	9.2%	16.3%	30.5%	11.2%	7.1%	0.0%	100.0%
Cum. Take	1.3	6.3	7.5	8.8	10.0	21.1	31.1	42.2	61.8	98.7	112.3	120.8	120.8	120.8
Cum. Take (%)	1.0%	5.2%	6.2%	7.2%	8.3%	17.4%	25.7%	34.9%	51.2%	81.7%	92.9%	100.0%	100.0%	100.0%

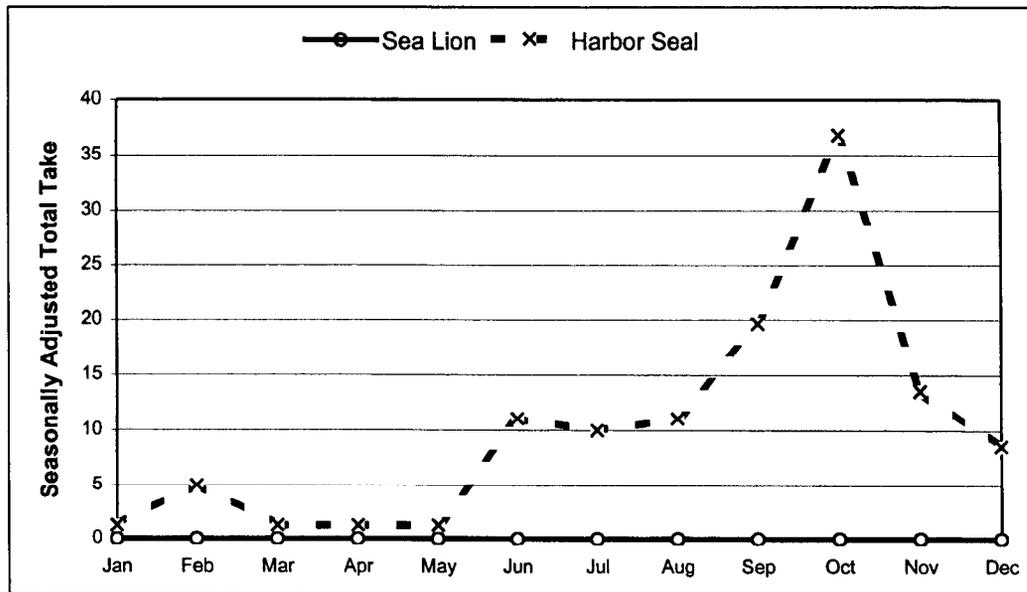
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Traditional Village of Eyak, 1997.

**Table 18. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Cordova, 1997**

**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	--	10	20.8%	12.5	10.3%
Adult Female	0	--	0.0	--	3	6.3%	9.8	8.1%
Adult Unknown Sex	0	--	0.0	--	16	33.3%	50.4	41.7%
Juvenile Male	0	--	0.0	--	6	12.5%	7.5	6.2%
Juvenile Female	0	--	0.0	--	2	4.2%	8.6	7.1%
Juvenile Unknown Sex	0	--	0.0	--	4	8.3%	11.1	9.2%
Pup Male	0	--	0.0	--	2	4.2%	8.6	7.1%
Pup Female	0	--	0.0	--	3	6.3%	9.8	8.1%
Pup Unknown Sex	0	--	0.0	--	2	4.2%	2.5	2.1%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>48</b>	<b>100.0%</b>	<b>120.8</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	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

SOURCE: Alaska Department 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, 1997.

**Table 19. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Nanwalek, 1997**

**SAMPLING DESIGN:  
CENSUS**

Total Native Households	33
Surveyed Households	31
Sampling Fraction	93.9%
Sample Household Members	144
Estimated Household Members	153.3
Estimated Native Population	153.3

**HARVEST AND USE INFORMATION**

**Percentage of Native Households:**

	Sea Lion	Harbor Seal
Used	58.1%	80.6%
Hunted	12.9%	25.8%
Harvested	0.0%	16.1%
Received	58.1%	77.4%
Gave Away	0.0%	16.1%

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

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	20.2
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	20.2
Number Harvested Per Capita	0.00	0.13

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	2	5	1	5	3	1	0	0	2	0	0	19
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	2	5	1	5	3	1	0	0	2	0	0	19
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	2.1	5.3	1.1	5.3	3.2	1.1	0.0	0.0	2.1	0.0	0.0	20.2
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	2.1	1.1	1.1	5.3	3.2	1.1	0.0	0.0	2.1	0.0	0.0	20.2
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	2.1	5.3	1.1	5.3	3.2	1.1	0.0	0.0	2.1	0.0	0.0	20.2
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	2.1	5.3	1.1	5.3	3.2	1.1	0.0	0.0	2.1	0.0	0.0	20.2
Total Take (%)	0.0%	0.0%	10.5%	26.3%	5.3%	26.3%	15.8%	5.3%	0.0%	0.0%	10.5%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	2.1	7.5	8.5	13.8	17.0	18.1	18.1	18.1	20.2	20.2	20.2	20.2
Cum. Take (%)	0.0%	0.0%	10.5%	36.8%	42.1%	68.4%	84.2%	89.5%	89.5%	89.5%	100.0%	100.0%	100.0%	100.0%

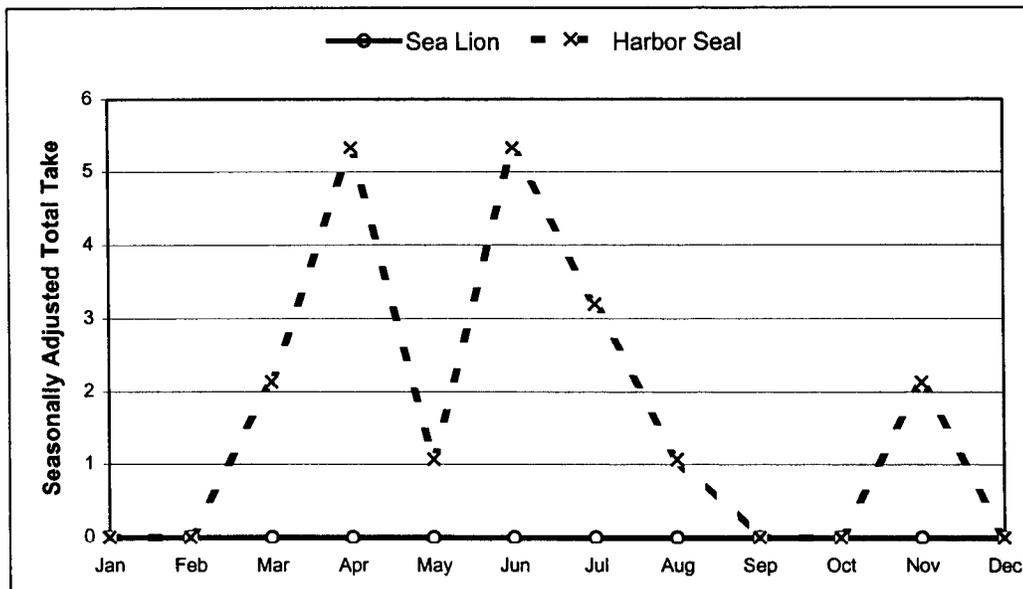
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nanwalek Traditional Council and English Bay Corporation, 1997.

**Table 19. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Nanwalek, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	2	10.5%	2.1	10.5%
Adult Female	0	--	0.0	--	3	15.8%	3.2	15.8%
Adult Unknown Sex	0	--	0.0	--	2	10.5%	2.1	10.5%
Juvenile Male	0	--	0.0	--	1	5.3%	1.1	5.3%
Juvenile Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	--	0.0	--	10	52.6%	10.6	52.6%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	1	5.3%	1.1	5.3%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>19</b>	<b>100.0%</b>	<b>20.2</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

SOURCE: Alaska Department 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, 1997.

**Table 20. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Port Graham, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	59
	Surveyed Households	56
	Sampling Fraction	94.9%
	Sample Household Members	145
	Estimated Household Members	152.8
	Estimated Native Population	152.8

**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	21.4%	73.2%	Total Number Harvested	0.0	15.8
Hunted	5.4%	23.2%	Total Number Struck and Lost	0.0	3.2
Harvested	0.0%	10.7%	Total Number Taken	0.0	19.0
Received	21.4%	73.2%			
Gave Away	3.6%	26.8%	Number Harvested Per Capita	0.00	0.10

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	1	0	2	2	2	2	3	1	2	0	0	15
Struck & Lost	0	0	0	0	0	0	3	0	0	0	0	0	0	3
Total Take	0	0	1	0	2	2	5	2	3	1	2	0	0	18
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	1.1	0.0	2.1	2.1	2.1	2.1	3.2	1.1	2.1	0.0	0.0	15.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	3.2
Total Take	0.0	0.0	1.1	2.1	2.1	2.1	5.3	2.1	3.2	1.1	2.1	0.0	0.0	19.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	1.1	0.0	2.1	2.1	2.1	2.1	3.2	1.1	2.1	0.0	0.0	15.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	3.2
Total Take	0.0	0.0	1.1	0.0	2.1	2.1	5.3	2.1	3.2	1.1	2.1	0.0	0.0	19.0
Total Take (%)	0.0%	0.0%	5.6%	0.0%	11.1%	11.1%	27.8%	11.1%	16.7%	5.6%	11.1%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	1.1	1.1	3.2	5.3	10.5	12.6	15.8	16.9	19.0	19.0	19.0	
Cum. Take (%)	0.0%	0.0%	5.6%	5.6%	16.7%	27.8%	55.6%	66.7%	83.3%	88.9%	100.0%	100.0%	100.0%	

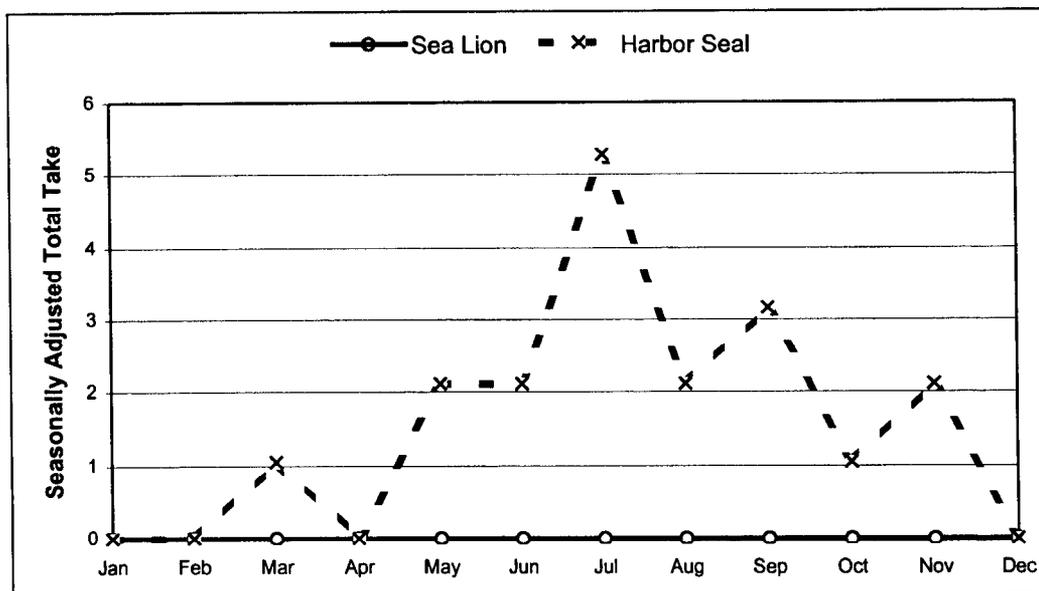
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Graham Village Council and Port Graham Corporation, 1997.

**Table 20. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Graham, 1997**

**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	40.0%	6.3	40.0%
Adult Female	0	--	0.0	--	3	20.0%	3.2	20.0%
Adult Unknown Sex	0	--	0.0	--	1	6.7%	1.1	6.7%
Juvenile Male	0	--	0.0	--	3	20.0%	3.2	20.0%
Juvenile Female	0	--	0.0	--	2	13.3%	2.1	13.3%
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%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>15</b>	<b>100.0%</b>	<b>15.8</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/		Year	Harvest	Struck/	
		Lost	Take			Lost	Take
1992	3.5	1.2	4.7	1992	36.2	4.7	40.8
1993	1.1	0.0	1.1	1993	30.6	3.2	33.7
1994	0.0	0.0	0.0	1994	15.5	5.2	20.7
1995	10.0	2.0	12.0	1995	23.0	0.0	23.0
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

SOURCE: Alaska Department 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, 1997.

**Table 21. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Seldovia, 1997**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>	Total Native Households	11	33	44
	Surveyed Households	8	19	27
	Sampling Fraction	72.7%	57.6%	61.4%
	Sample Household Members	22	57	79
	Estimated Household Members	30.3	99.0	129.3
	Estimated Native Population	---	---	129.3

**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	14.1%	49.5%	Total Number Harvested	1.7    2.8
Hunted	7.1%	13.3%	Total Number Struck and Lost	0.0    2.8
Harvested	3.9%	6.3%	Total Number Taken	1.7    5.5
Received	14.1%	43.3%		
Gave Away	7.1%	16.4%	Number Harvested Per Capita	0.02    0.03

<i>SEA LION HARVEST BY MONTH</i>													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	1	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	0	1	0	0	0	0	0	0	0	1
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
Total Take (%)	0.0%	0.0%	0.0%	0.0%	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	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	1	0	0	0	1	0	0	0	0	0	0	2
Struck & Lost	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Total Take	0	0	1	0	0	2	1	0	0	0	0	0	0	4
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	1.4	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	2.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
Total Take	0.0	0.0	1.4	0.0	0.0	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	5.5
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	1.4	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	2.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
Total Take	0.0	0.0	1.4	0.0	0.0	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	5.5
Total Take (%)	0.0%	0.0%	25.0%	0.0%	0.0%	50.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	1.4	1.4	1.4	4.1	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Cum. Take (%)	0.0%	0.0%	25.0%	25.0%	25.0%	75.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

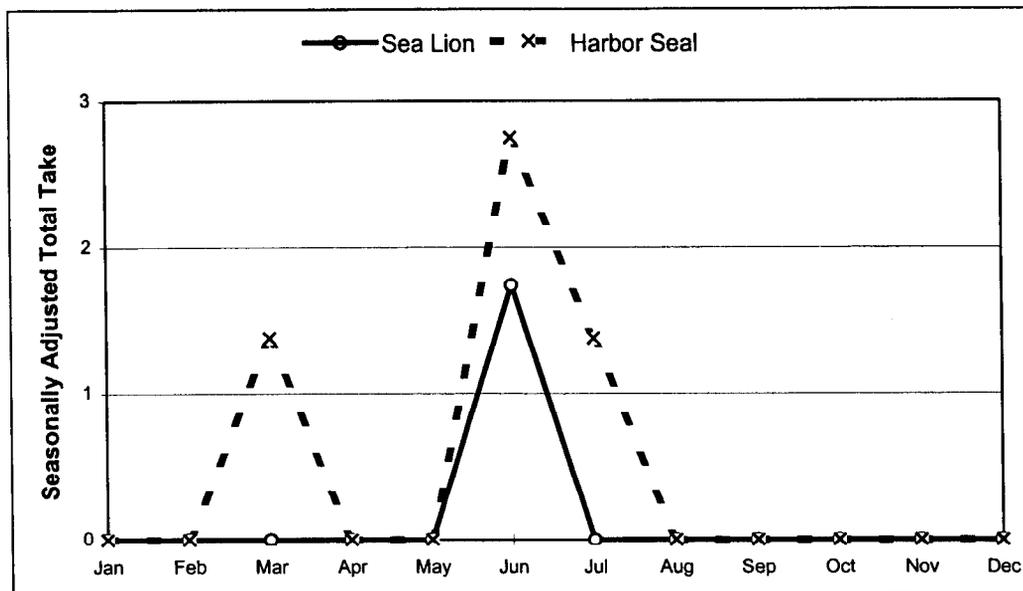
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Seldovia Native Association, 1997.

**Table 21. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Seldovia, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	1	100.0%	1.7	100.0%	1	50.0%	1.4	50.0%
Juvenile Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	1	50.0%	1.4	50.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>1</b>	<b>100.0%</b>	<b>1.7</b>	<b>100.0%</b>	<b>2</b>	<b>100.0%</b>	<b>2.8</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	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

SOURCE: Alaska Department 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, 1997.

**Table 22. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Seward, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	2
	Surveyed Households	1
	Sampling Fraction	50.0%
	Sample Household Members	3
	Estimated Household Members	6.0
	Estimated Native Population	434.8

**HARVEST AND USE INFORMATION**

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

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

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

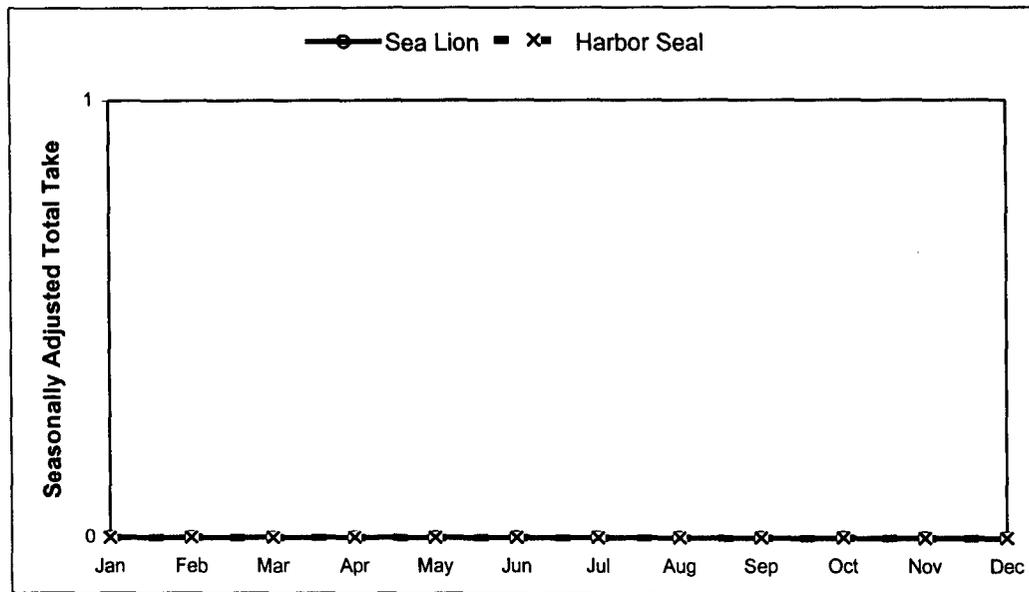
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qutekcaq Native Tribe, 1997.

**Table 22. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Seward, 1997**

**HARVEST BY AGE AND SEX**

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

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qutekcaq Native Tribe, 1997.

**Table 23. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Tatitlek, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	26
	Surveyed Households	19
	Sampling Fraction	73.1%
	Sample Household Members	57
	Estimated Household Members	78.0
	Estimated Native Population	78.0

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	47.4%	100.0%	Total Number Harvested	2.7	97.2
Hunted	5.3%	47.4%	Total Number Struck and Lost	1.4	6.8
Harvested	5.3%	47.4%	Total Number Taken	4.1	104.0
Received	47.4%	89.5%	Number Harvested Per Capita	0.04	1.25
Gave Away	10.5%	47.4%			

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	2	0	0	0	0	0	0	0	0	0	2
Struck & Lost	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Total Take	0	0	0	3	0	0	0	0	0	0	0	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	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
Struck & Lost	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Total Take	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	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
Struck & Lost	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Total Take	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1
Total Take (%)	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	
Cum. Take (%)	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

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	5	3	3	5	9	5	3	4	24	4	0	71
Struck & Lost	0	1	1	1	0	1	0	0	1	0	0	0	0	5
Total Take	3	4	6	4	3	6	9	5	4	4	24	4	0	76
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.1	4.1	6.8	4.1	4.1	6.8	12.3	6.8	4.1	5.5	32.8	5.5	0.0	97.2
Struck & Lost	0.0	1.4	1.4	1.4	0.0	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0	6.8
Total Take	4.1	5.5	8.2	4.1	4.1	8.2	12.3	6.8	5.5	5.5	32.8	5.5	0.0	104.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	4.1	4.1	6.8	4.1	4.1	6.8	12.3	6.8	4.1	5.5	32.8	5.5	0.0	97.2
Struck & Lost	0.0	1.4	1.4	1.4	0.0	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0	6.8
Total Take	4.1	5.5	8.2	5.5	4.1	8.2	12.3	6.8	5.5	5.5	32.8	5.5	0.0	104.0
Total Take (%)	3.9%	5.3%	7.9%	5.3%	3.9%	7.9%	11.8%	6.6%	5.3%	5.3%	31.6%	5.3%	0.0%	100.0%
Cum. Take	4.1	9.6	17.8	23.3	27.4	35.6	47.9	54.7	60.2	65.7	98.5	104.0	104.0	
Cum. Take (%)	3.9%	9.2%	17.1%	22.4%	26.3%	34.2%	46.1%	52.6%	57.9%	63.2%	94.7%	100.0%	100.0%	

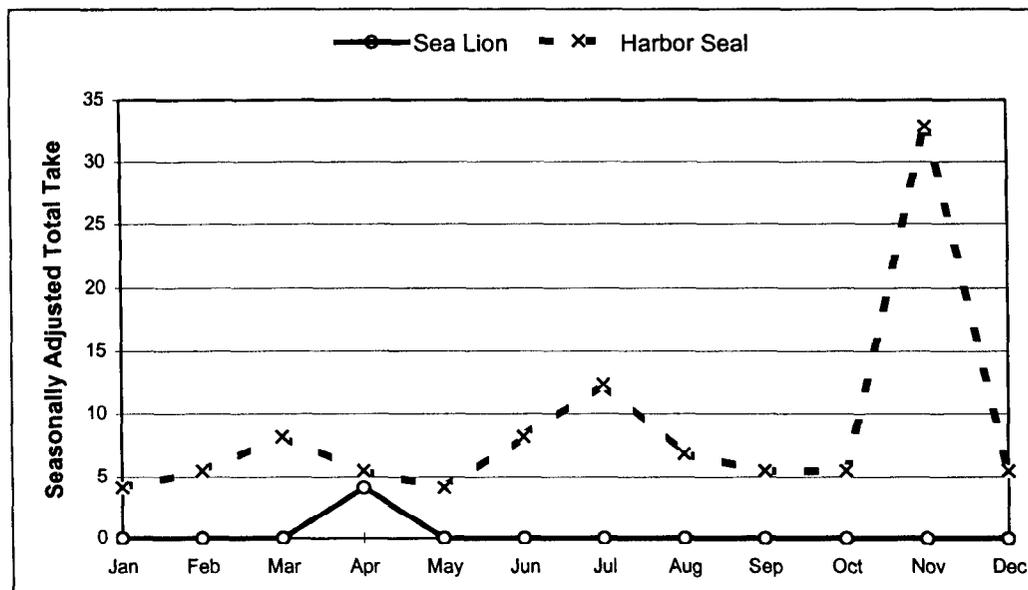
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Tatitlek IRA Council, 1997.

**Table 23. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Tatitlek, 1997**

**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%	22	31.0%	30.1	31.0%
Adult Female	0	0.0%	0.0	0.0%	7	9.9%	9.6	9.9%
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%	22	31.0%	30.1	31.0%
Juvenile Female	0	0.0%	0.0	0.0%	14	19.7%	19.2	19.7%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	4	5.6%	5.5	5.6%
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	100.0%	2.7	100.0%	2	2.8%	2.7	2.8%
<b>Total</b>	<b>2</b>	<b>100.0%</b>	<b>2.7</b>	<b>100.0%</b>	<b>71</b>	<b>100.0%</b>	<b>97.2</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

SOURCE: Alaska Department 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, 1997.

**Table 24. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Valdez, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	5
	Surveyed Households	4
	Sampling Fraction	80.0%
	Sample Household Members	17
	Estimated Household Members	21.3
	Estimated Native Population	371.6

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea <u>Lion</u>	Harbor <u>Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	25.0%	75.0%	Total Number Harvested	0.0	12.5
Hunted	0.0%	75.0%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	75.0%	Total Number Taken	0.0	12.5
Received	25.0%	50.0%			
Gave Away	25.0%	75.0%	Number Harvested Per Capita	0.00	0.03

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

<b>HARBOR SEAL HARVEST BY MONTH</b>												Unknown	Total	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	2	1	0	2	1	1	0	0	1	0	2	0	10
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	2	1	0	2	1	1	0	0	1	0	2	0	10
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	2.5	1.3	0.0	2.5	1.3	1.3	0.0	0.0	1.3	0.0	2.5	0.0	12.5
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	2.5	1.3	2.5	2.5	1.3	1.3	0.0	0.0	1.3	0.0	2.5	0.0	12.5
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	2.5	1.3	0.0	2.5	1.3	1.3	0.0	0.0	1.3	0.0	2.5		12.5
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	2.5	1.3	0.0	2.5	1.3	1.3	0.0	0.0	1.3	0.0	2.5		12.5
Total Take (%)	0.0%	20.0%	10.0%	0.0%	20.0%	10.0%	10.0%	0.0%	0.0%	10.0%	0.0%	20.0%		100.0%
Cum. Take	0.0	2.5	3.8	3.8	6.3	7.5	8.8	8.8	8.8	10.0	10.0	12.5		
Cum. Take (%)	0.0%	20.0%	30.0%	30.0%	50.0%	60.0%	70.0%	70.0%	70.0%	80.0%	80.0%	100.0%		

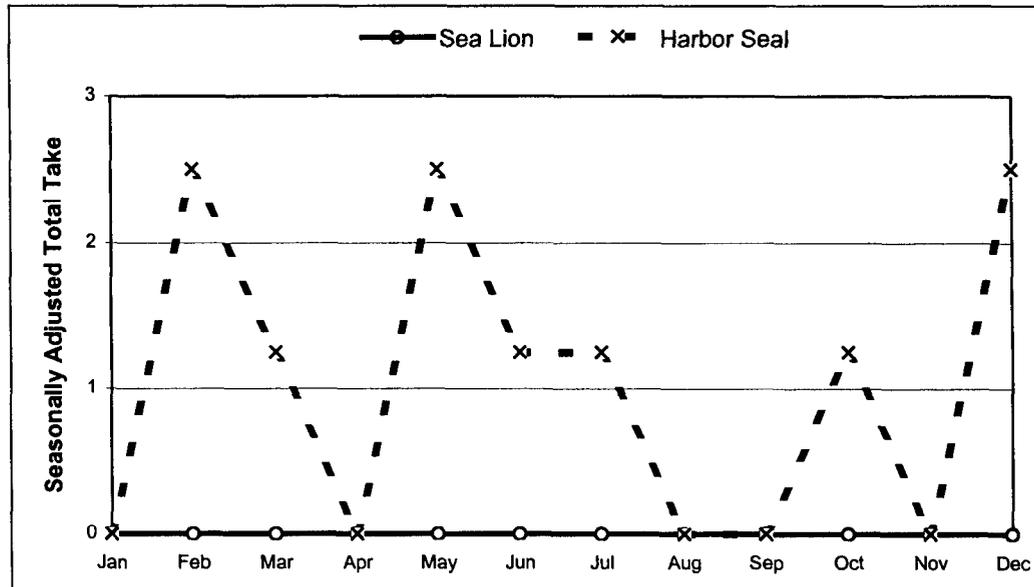
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Valdez Native Association, 1997.

Table 24. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Valdez, 1997

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	70.0%	8.8	70.0%
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	—	1	10.0%	1.3	10.0%
Juvenile Female	0	—	0.0	—	1	10.0%	1.3	10.0%
Juvenile Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%
Pup Male	0	—	0.0	—	1	10.0%	1.3	10.0%
Pup Female	0	—	0.0	—	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%
Male Unknown Age	0	—	0.0	—	0	0.0%	0.0	0.0%
Female Unknown Age	0	—	0.0	—	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	—	0.0	—	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>—</b>	<b>0.0</b>	<b>—</b>	<b>10</b>	<b>100.0%</b>	<b>12.5</b>	<b>100.0%</b>

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	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

SOURCE: Alaska Department 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, 1997.

**Table 25. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Anchorage, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	31
	Surveyed Households	25
	Sampling Fraction	80.6%
	Sample Household Members	96
	Estimated Household Members	119.0
	Estimated Native Population	14569

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>				<i>Estimated Community Harvest and Take (Expanded):</i>			
	Sea	Harbor		Sea	Harbor		
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>		
Used	0.0%	76.0%	Total Number Harvested	0.0	23.6		
Hunted	0.0%	40.0%	Total Number Struck and Lost	0.0	1.2		
Harvested	0.0%	28.0%	Total Number Taken	0.0	24.8		
Received	0.0%	52.0%					
Gave Away	0.0%	64.0%	Number Harvested Per Capita	0.00	0.00		

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	6	0	0	0	0	4	2	3	3	0	0	1	19
Struck & Lost	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Total Take	0	6	0	0	0	0	4	2	4	3	0	0	1	20
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	7.4	0.0	0.0	0.0	0.0	5.0	2.5	3.7	3.7	0.0	0.0	1.2	23.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	1.2
Total Take	0.0	7.4	0.0	0.0	0.0	0.0	5.0	2.5	5.0	3.7	0.0	0.0	1.2	24.8
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	7.9	0.0	0.0	0.0	0.0	5.2	2.6	3.9	3.9	0.0	0.0		23.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0		1.2
Total Take	0.0	7.9	0.0	0.0	0.0	0.0	5.2	2.6	5.2	3.9	0.0	0.0		24.8
Total Take (%)	0.0%	31.7%	0.0%	0.0%	0.0%	0.0%	21.1%	10.6%	20.8%	15.8%	0.0%	0.0%		100.0%
Cum. Take	0.0	7.9	7.9	7.9	7.9	7.9	13.1	15.7	20.9	24.8	24.8	24.8		
Cum. Take (%)	0.0%	31.7%	31.7%	31.7%	31.7%	31.7%	52.8%	63.3%	84.2%	100.0%	100.0%	100.0%		

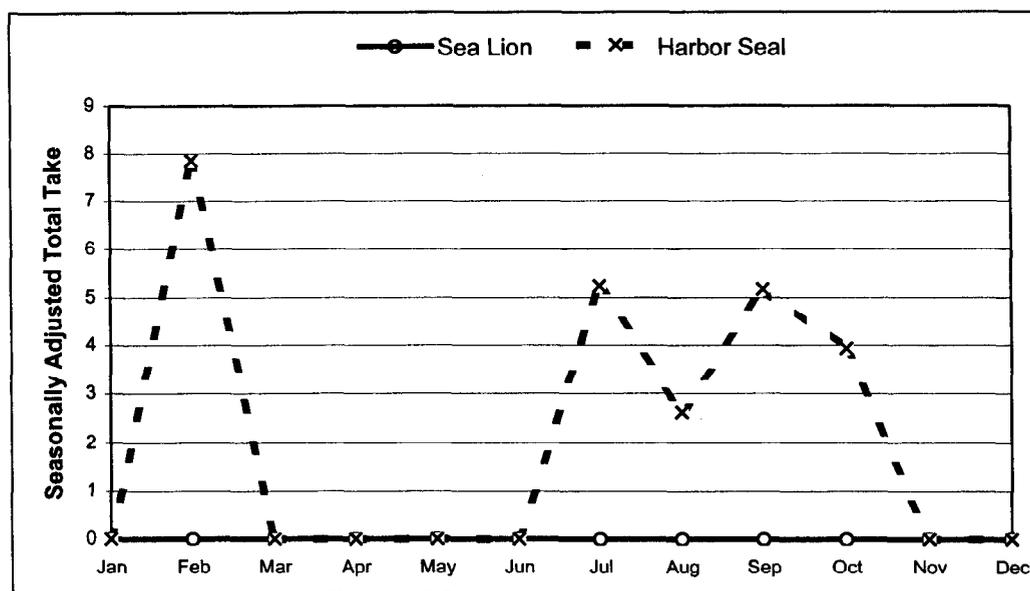
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Cook Inlet Tribal Council and Alaska Federation of Natives, 1997.

**Table 25. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Anchorage, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Adult Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	--	0.0	--	6	31.6%	7.4	31.6%
Juvenile Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	--	0.0	--	4	21.1%	5.0	21.1%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	9	47.4%	11.2	47.4%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>19</b>	<b>100.0%</b>	<b>23.6</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	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

SOURCE: Alaska Department 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, 1997.

**Table 26. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Homer, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	9
	Surveyed Households	7
	Sampling Fraction	77.8%
	Sample Household Members	16
	Estimated Household Members	20.6
	Estimated Native Population	189.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea <u>Lion</u>	Harbor <u>Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	100.0%	Total Number Harvested	0.0	41.1
Hunted	0.0%	100.0%	Total Number Struck and Lost	0.0	2.6
Harvested	0.0%	71.4%	Total Number Taken	0.0	43.7
Received	0.0%	57.1%			
Gave Away	0.0%	100.0%	Number Harvested Per Capita	0.00	0.22

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	5	5	1	11	4	4	0	2	32
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Total Take	0	0	0	0	0	5	5	1	11	4	4	0	4	34
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	6.4	6.4	1.3	14.1	5.1	5.1	0.0	2.6	41.1
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	2.6	2.6
Total Take	0.0	0.0	0.0	0.0	0.0	6.4	6.4	1.3	14.1	5.1	5.1	0.0	5.1	43.7
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	6.9	6.9	1.4	15.1	5.5	5.5	0.0		41.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.1	0.9	0.3	0.3	0.0		2.6
Total Take	0.0	0.0	0.0	0.0	0.0	7.3	7.3	1.5	16.0	5.8	5.8	0.0		43.7
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	16.7%	3.3%	36.7%	13.3%	13.3%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	7.3	14.6	16.0	32.1	37.9	43.7	43.7		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	33.3%	36.7%	73.3%	86.7%	100.0%	100.0%		

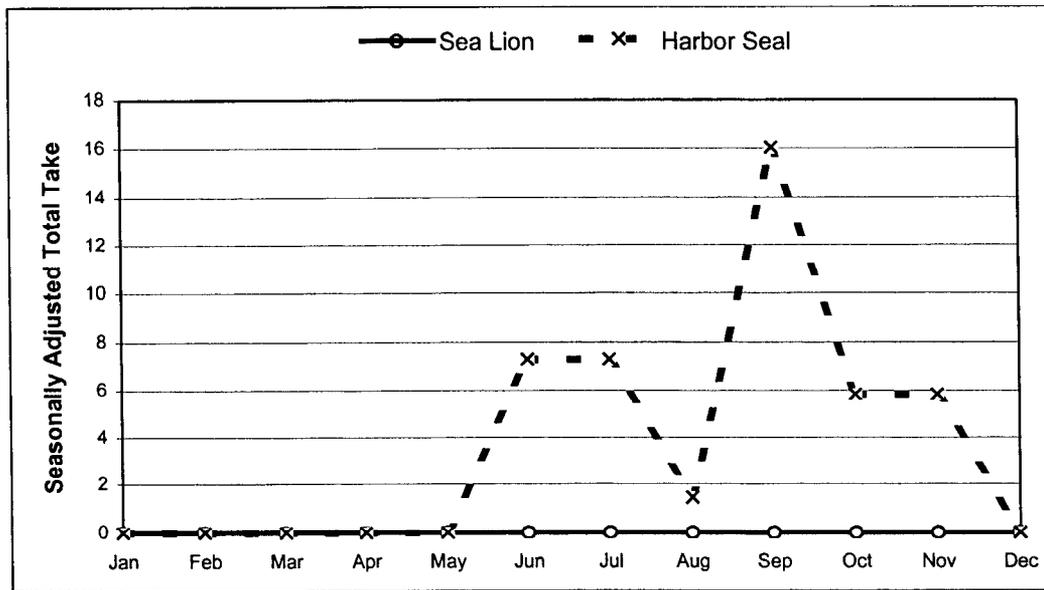
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska.

**Table 26. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Homer, 1997**

*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	21.9%	9.0	21.9%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	12	37.5%	15.4	37.5%
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	---	4	12.5%	5.1	12.5%
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	---	9	28.1%	11.6	28.1%
<b>Total</b>	<b>0</b>	<b>---</b>	<b>0.0</b>	<b>---</b>	<b>32</b>	<b>100.0%</b>	<b>41.1</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	---	---	---	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

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, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	13
	Surveyed Households	13
	Sampling Fraction	100.0%
	Sample Household Members	41
	Estimated Household Members	41.0
	Estimated Native Population	1715.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea <u>Lion</u>	Harbor <u>Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	92.3%	Total Number Harvested	0.0	35.0
Hunted	0.0%	84.6%	Total Number Struck and Lost	0.0	5.0
Harvested	0.0%	53.8%	Total Number Taken	0.0	40.0
Received	0.0%	92.3%			
Gave Away	0.0%	46.2%	Number Harvested Per Capita	0.00	0.02

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	5	6	2	0	0	0	0	0	0	8	12	0	2	35
Struck & Lost	0	1	0	0	0	0	0	0	0	2	2	0	0	5
Total Take	5	7	2	0	0	0	0	0	0	10	14	0	2	40
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	5.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	12.0	0.0	2.0	35.0
Struck & Lost	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0	0.0	5.0
Total Take	5.0	7.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	14.0	0.0	2.0	40.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	5.3	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	8.5	12.7	0.0	0.0	35.0
Struck & Lost	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0	0.0	5.0
Total Take	5.3	7.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	10.5	14.7	0.0	0.0	40.0
Total Take (%)	13.3%	18.4%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	26.2%	36.8%	0.0%	0.0%	100.0%
Cum. Take	5.3	12.7	14.8	14.8	14.8	14.8	14.8	14.8	14.8	25.3	40.0	40.0	40.0	40.0
Cum. Take (%)	13.3%	31.7%	37.0%	37.0%	37.0%	37.0%	37.0%	37.0%	37.0%	63.2%	100.0%	100.0%	100.0%	100.0%

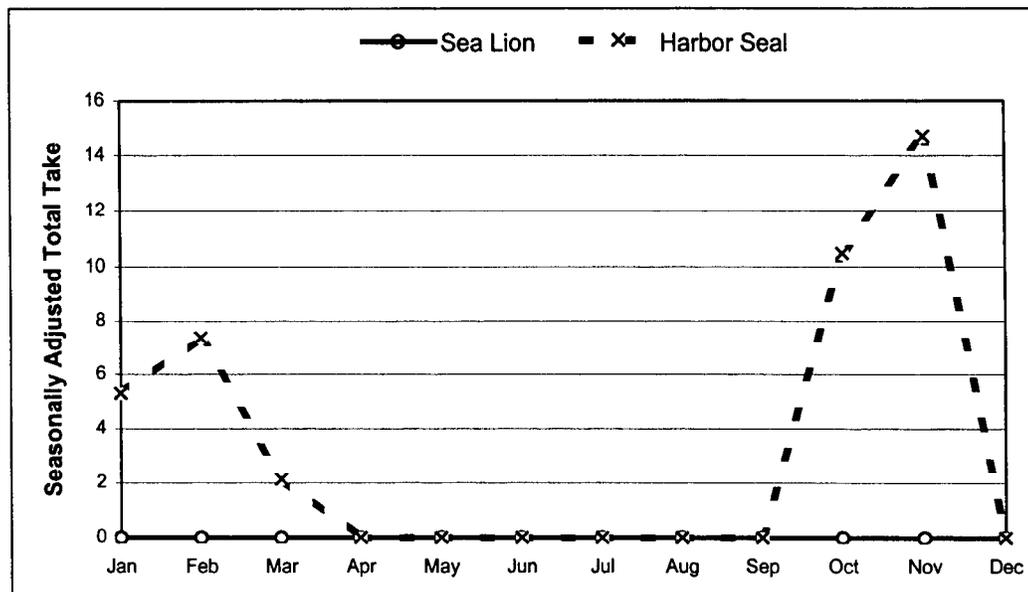
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kenaitze Indian Tribe IRA and Cook Inlet Region, Inc., 1997.

**Table 26b. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kenai, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	15	42.9%	15.0	42.9%
Adult Female	0	--	0.0	--	7	20.0%	7.0	20.0%
Adult Unknown Sex	0	--	0.0	--	4	11.4%	4.0	11.4%
Juvenile Male	0	--	0.0	--	4	11.4%	4.0	11.4%
Juvenile Female	0	--	0.0	--	3	8.6%	3.0	8.6%
Juvenile Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	2	5.7%	2.0	5.7%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>35</b>	<b>100.0%</b>	<b>35.0</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kenaitze Indian Tribe IRA and Cook Inlet Region, Inc., 1997.

**Table 26c. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Tyonek, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	6
	Surveyed Households	6
	Sampling Fraction	100.0%
	Sample Household Members	16
	Estimated Household Members	16.0
	Estimated Native Population	142.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>				<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea <u>Lion</u>	Harbor <u>Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>	
Used	0.0%	100.0%	Total Number Harvested	0.0	2.0	
Hunted	0.0%	83.3%	Total Number Struck and Lost	0.0	0.0	
Harvested	0.0%	16.7%	Total Number Taken	0.0	2.0	
Received	0.0%	83.3%				
Gave Away	0.0%	50.0%	Number Harvested Per Capita	0.00	0.01	

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

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

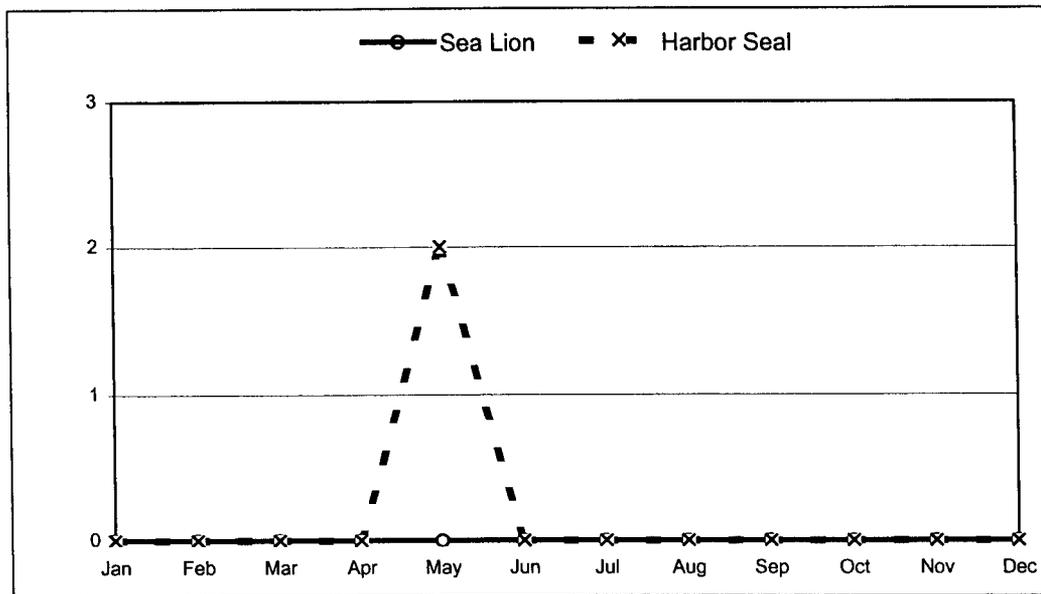
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Native Village of Tyonek, 1997.

**Table 26c. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Tyonek, 1997**

**HARVEST BY AGE AND SEX**

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

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	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	0.0	0.0	0.0	1997	2.0	0.0	2.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Native Village of Tyonek, 1997.

**Table 29. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Akhiok, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	21
	Surveyed Households	16
	Sampling Fraction	76.2%
	Sample Household Members	60
	Estimated Household Members	78.8
	Estimated Native Population	78.8

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	50.0%	56.3%	Total Number Harvested	6.6	7.9
Hunted	25.0%	37.5%	Total Number Struck and Lost	1.3	0.0
Harvested	25.0%	18.8%	Total Number Taken	7.9	7.9
Received	25.0%	37.5%			
Gave Away	25.0%	18.8%	Number Harvested Per Capita	0.08	0.10

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	2	0	0	0	0	0	0	0	0	0	1	2	0	5
Struck & Lost	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Take	3	0	0	0	0	0	0	0	0	0	1	2	0	6
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6	0.0	6.6
Struck & Lost	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
Total Take	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6	0.0	7.9
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6		6.6
Struck & Lost	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.3
Total Take	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6		7.9
Total Take (%)	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	33.3%		100.0%
Cum. Take	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.3	7.9		
Cum. Take (%)	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	66.7%	100.0%		

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	1	0	2	0	1	2	0	6
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	2	0	1	2	0	6
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.6	0.0	1.3	2.6	0.0	7.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.6	0.0	1.3	2.6	0.0	7.9
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.6	0.0	1.3	2.6		7.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	2.6	0.0	1.3	2.6		7.9
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	0.0%	33.3%	0.0%	16.7%	33.3%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	3.9	3.9	5.3	7.9		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	16.7%	50.0%	50.0%	66.7%	100.0%		

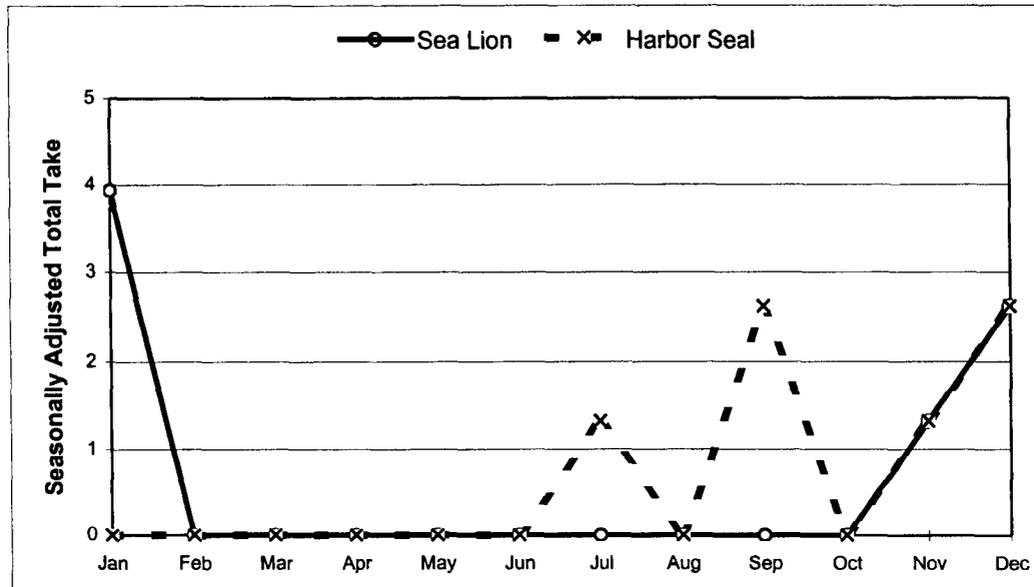
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Akhiok and Akhiok Tribal Council, 1997.

**Table 29. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Akhiok, 1997**

**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	20.0%	1.3	20.0%	5	83.3%	6.6	83.3%
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	80.0%	5.3	80.0%	1	16.7%	1.3	16.7%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>5</b>	<b>100.0%</b>	<b>6.6</b>	<b>100.0%</b>	<b>6</b>	<b>100.0%</b>	<b>7.9</b>	<b>100.0%</b>

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



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

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

SOURCE: Alaska Department 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, 1997.

**Table 30. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Karluk, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	13
	Surveyed Households	13
	Sampling Fraction	100.0%
	Sample Household Members	46
	Estimated Household Members	46.0
	Estimated Native Population	46.0

**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	0.0%	61.5%	Total Number Harvested	0.0	19.0		
Hunted	0.0%	46.2%	Total Number Struck and Lost	0.0	0.0		
Harvested	0.0%	38.5%	Total Number Taken	0.0	19.0		
Received	0.0%	23.1%					
Gave Away	0.0%	30.8%	Number Harvested Per Capita	0.00	0.41		

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	4	7	0	0	0	0	0	0	0	2	5	1	0	19
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	4	7	0	0	0	0	0	0	0	2	5	1	0	19
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	4.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	1.0	0.0	19.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	4.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	1.0	0.0	19.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	4.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	1.0		19.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	4.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	1.0		19.0
Total Take (%)	21.1%	36.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.5%	26.3%	5.3%		100.0%
Cum. Take	4.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	13.0	18.0	19.0		
Cum. Take (%)	21.1%	57.9%	57.9%	57.9%	57.9%	57.9%	57.9%	57.9%	57.9%	68.4%	94.7%	100.0%		

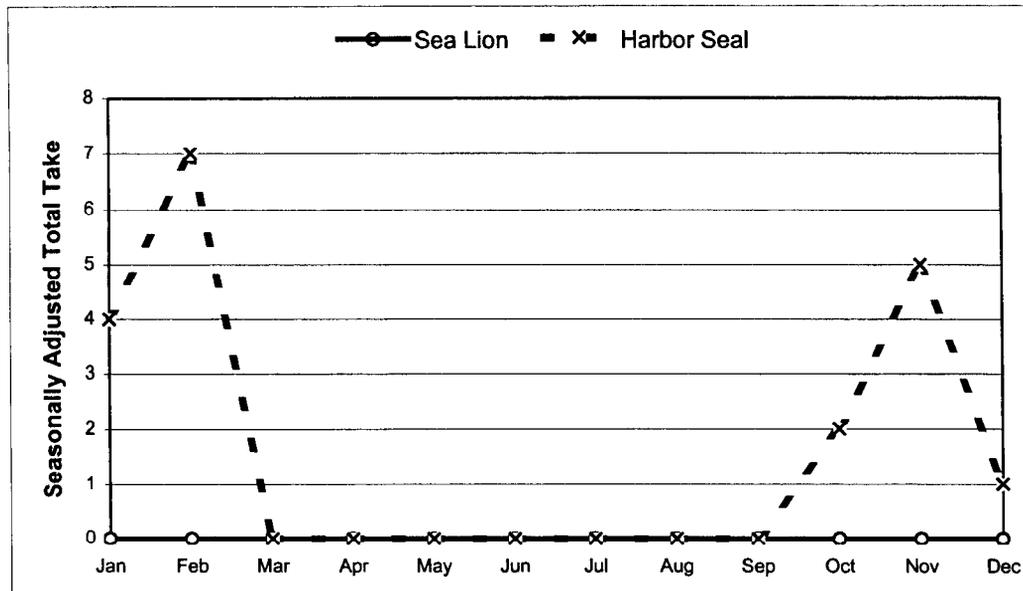
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Karluk IRA Council, 1997.

**Table 30. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Karluk, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	12	63.2%	12.0	63.2%
Adult Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	--	0.0	--	3	15.8%	3.0	15.8%
Juvenile Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Female	0	--	0.0	--	1	5.3%	1.0	5.3%
Juvenile Unknown Sex	0	--	0.0	--	2	10.5%	2.0	10.5%
Pup Male	0	--	0.0	--	1	5.3%	1.0	5.3%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>19</b>	<b>100.0%</b>	<b>19.0</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	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

SOURCE: Alaska Department 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, 1997.

**Table 31. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kodiak City, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	10
	Surveyed Households	10
	Sampling Fraction	100.0%
	Sample Household Members	40
	Estimated Household Members	40.0
	Estimated Native Population	1155.6

**HARVEST AND USE INFORMATION**

<b>Percentage of Sample Households:</b>			<b>Estimated Community Harvest and Take (Expanded):</b>		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	40.0%	70.0%	Total Number Harvested	3.0	13.0
Hunted	20.0%	60.0%	Total Number Struck and Lost	0.0	0.0
Harvested	20.0%	50.0%	Total Number Taken	3.0	13.0
Received	20.0%	20.0%			
Gave Away	20.0%	40.0%	Number Harvested Per Capita	0.00	0.01

<b>SEA LION HARVEST BY MONTH</b>													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	1	0	2	0	0	0	0	3
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	1	0	2	0	0	0	0	3
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.0	0.0	0.0	0.0	0.0	3.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.0	0.0	0.0	0.0	0.0	3.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.0	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	0.0	0.0	0.0	0.0	1.0	0.0	2.0	0.0	0.0	0.0		3.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	66.7%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	3.0	3.0	3.0	3.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	33.3%	100.0%	100.0%	100.0%	100.0%		

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	2	0	0	2	1	0	4	0	1	1	2	0	13
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	2	0	0	2	1	0	4	0	1	1	2	0	13
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	2.0	0.0	0.0	2.0	1.0	0.0	4.0	0.0	1.0	1.0	2.0	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	2.0	0.0	0.0	2.0	1.0	0.0	4.0	0.0	1.0	1.0	2.0	0.0	13.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	2.0	0.0	0.0	2.0	1.0	0.0	4.0	0.0	1.0	1.0	2.0		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
Total Take	0.0	2.0	0.0	0.0	2.0	1.0	0.0	4.0	0.0	1.0	1.0	2.0		13.0
Total Take (%)	0.0%	15.4%	0.0%	0.0%	15.4%	7.7%	0.0%	30.8%	0.0%	7.7%	7.7%	15.4%		100.0%
Cum. Take	0.0	2.0	2.0	2.0	4.0	5.0	5.0	9.0	9.0	10.0	11.0	13.0		
Cum. Take (%)	0.0%	15.4%	15.4%	15.4%	30.8%	38.5%	38.5%	69.2%	69.2%	76.9%	84.6%	100.0%		

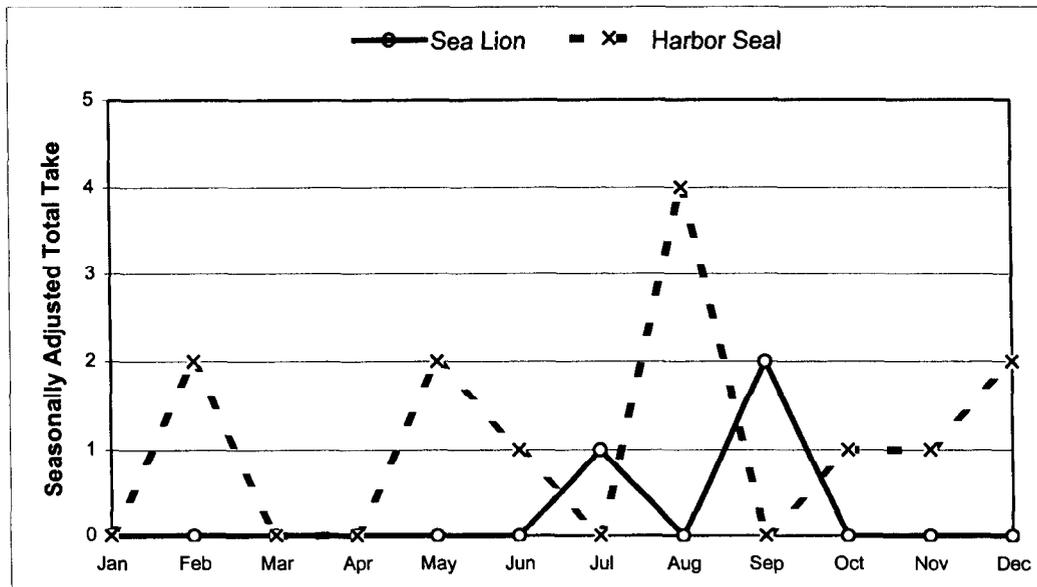
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Kodiak Tribal Council and Kodiak Area Native Association, 1997.

**Table 31. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kodiak City, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	1	7.7%	1.0	7.7%
Adult Female	0	0.0%	0.0	0.0%	3	23.1%	3.0	23.1%
Adult Unknown Sex	0	0.0%	0.0	0.0%	1	7.7%	1.0	7.7%
Juvenile Male	1	33.3%	1.0	33.3%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	2	66.7%	2.0	66.7%	8	61.5%	8.0	61.5%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>3</b>	<b>100.0%</b>	<b>3.0</b>	<b>100.0%</b>	<b>13</b>	<b>100.0%</b>	<b>13.0</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	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

SOURCE: Alaska Department 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, 1997.

**Table 32. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Larsen Bay, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	39
	Surveyed Households	28
	Sampling Fraction	71.8%
	Sample Household Members	97
	Estimated Household Members	135.1
	Estimated Native Population	135.1

**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	0.0%	35.7%	Total Number Harvested	0.0	9.8
Hunted	0.0%	21.4%	Total Number Struck and Lost	0.0	4.2
Harvested	0.0%	14.3%	Total Number Taken	0.0	13.9
Received	0.0%	25.0%			
Gave Away	0.0%	17.9%	Number Harvested Per Capita	0.00	0.07

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

<b>HARBOR SEAL HARVEST BY MONTH</b>														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	0	1	4	2	0	7
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	1	2	3
Total Take	0	0	0	0	0	0	0	0	0	1	4	3	2	10
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.6	2.8	0.0	9.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	4.2
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.6	4.2	2.8	13.9
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.6	2.8		9.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2		4.2
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.6	7.0		13.9
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%	40.0%	50.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	7.0	13.9		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%	50.0%	100.0%		

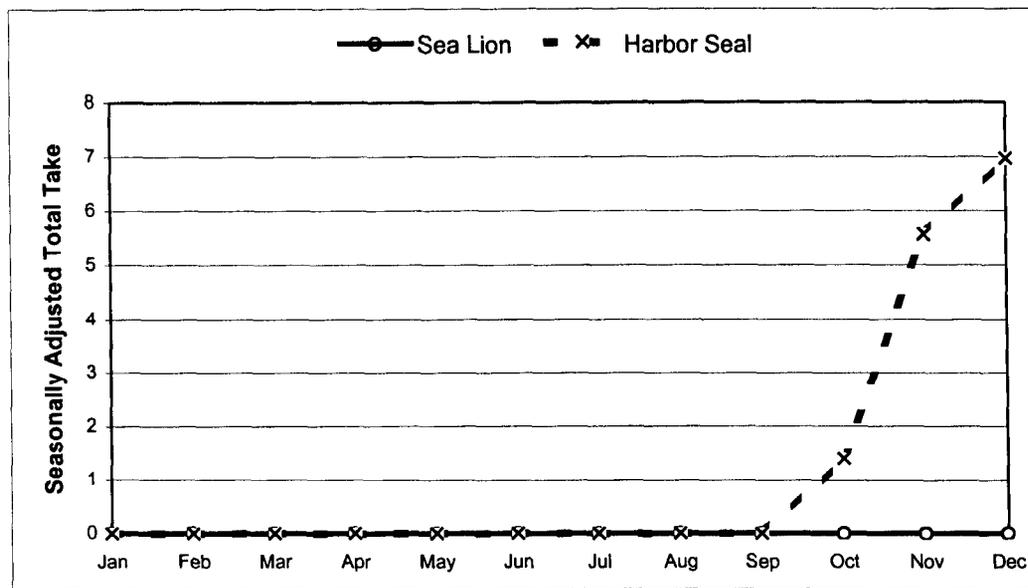
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Larsen Bay and Larsen Bay Tribal Council, 1997.

**Table 32. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Larsen Bay, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Adult Female	0	--	0.0	--	1	14.3%	1.4	14.3%
Adult Unknown Sex	0	--	0.0	--	1	14.3%	1.4	14.3%
Juvenile Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	4	57.1%	5.6	57.1%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	1	14.3%	1.4	14.3%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>7</b>	<b>100.0%</b>	<b>9.8</b>	<b>100.0%</b>

**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

SOURCE: Alaska Department 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, 1997.

**Table 33. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Old Harbor, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	43
	Surveyed Households	36
	Sampling Fraction	83.7%
	Sample Household Members	132
	Estimated Household Members	157.7
	Estimated Native Population	288.1

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea <u>Lion</u>	Harbor <u>Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	38.9%	100.0%	Total Number Harvested	22.7	80.0
Hunted	27.8%	75.0%	Total Number Struck and Lost	3.6	4.8
Harvested	27.8%	69.4%	Total Number Taken	26.3	84.8
Received	25.0%	63.9%			
Gave Away	25.0%	72.2%	Number Harvested Per Capita	0.08	0.28

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	2	1	1	0	0	2	0	0	0	6	2	3	2	19
Struck & Lost	1	0	0	1	0	0	0	0	0	0	0	1	0	3
Total Take	3	1	1	1	0	2	0	0	0	6	2	4	2	22
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	2.4	1.2	1.2	0.0	0.0	2.4	0.0	0.0	0.0	7.2	2.4	3.6	2.4	22.7
Struck & Lost	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	3.6
Total Take	3.6	1.2	1.2	1.2	0.0	2.4	0.0	0.0	0.0	7.2	2.4	4.8	2.4	26.3
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	2.7	1.3	1.3	0.0	0.0	2.7	0.0	0.0	0.0	8.0	2.7	4.0		22.7
Struck & Lost	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2		3.6
Total Take	3.9	1.3	1.3	1.2	0.0	2.7	0.0	0.0	0.0	8.0	2.7	5.2		26.3
Total Take (%)	14.7%	5.1%	5.1%	4.5%	0.0%	10.2%	0.0%	0.0%	0.0%	30.5%	10.2%	19.8%		100.0%
Cum. Take	3.9	5.2	6.5	7.7	7.7	10.4	10.4	10.4	10.4	18.4	21.1	26.3		
Cum. Take (%)	14.7%	19.8%	24.9%	29.4%	29.4%	39.6%	39.6%	39.6%	39.6%	70.1%	80.2%	100.0%		

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	4	1	4	6	4	1	3	8	9	7	8	7	5	67
Struck & Lost	0	0	0	1	0	0	0	0	2	0	0	1	0	4
Total Take	4	1	4	7	4	1	3	8	11	7	8	8	5	71
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	4.8	1.2	4.8	7.2	4.8	1.2	3.6	9.6	10.8	8.4	9.6	8.4	6.0	80.0
Struck & Lost	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	2.4	0.0	0.0	1.2	0.0	4.8
Total Take	4.8	1.2	4.8	8.4	4.8	1.2	3.6	9.6	13.1	8.4	9.6	9.6	6.0	84.8
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	5.2	1.3	5.2	7.7	5.2	1.3	3.9	10.3	11.6	9.0	10.3	9.0		80.0
Struck & Lost	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	2.4	0.0	0.0	1.2		4.8
Total Take	5.2	1.3	5.2	8.9	5.2	1.3	3.9	10.3	14.0	9.0	10.3	10.2		84.8
Total Take (%)	6.1%	1.5%	6.1%	10.5%	6.1%	1.5%	4.6%	12.2%	16.5%	10.7%	12.2%	12.1%		100.0%
Cum. Take	5.2	6.5	11.6	20.6	25.7	27.0	30.9	41.2	55.2	64.2	74.6	84.8		
Cum. Take (%)	6.1%	7.6%	13.7%	24.2%	30.3%	31.8%	36.4%	48.6%	65.1%	75.8%	87.9%	100.0%		

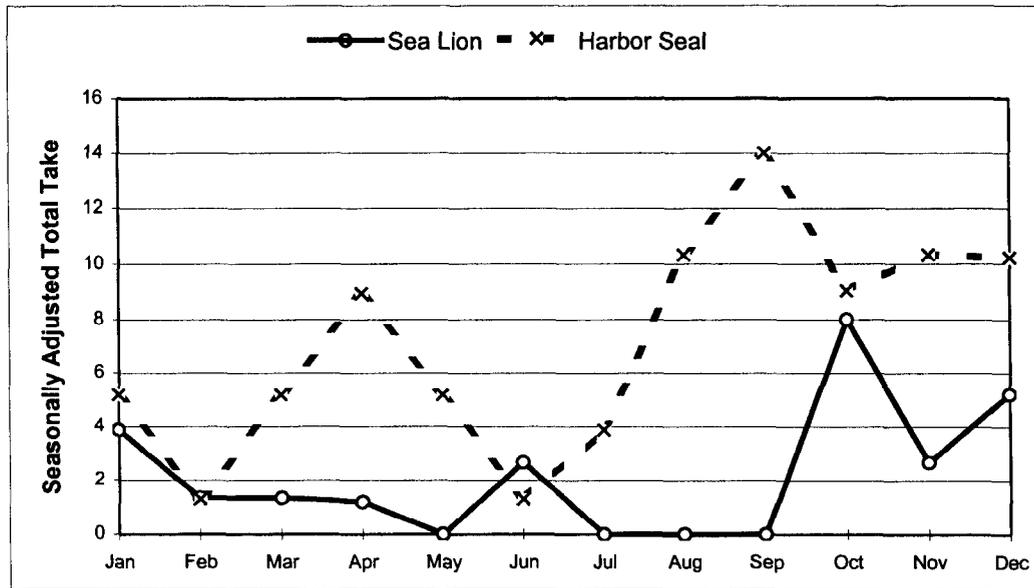
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Old Harbor and Old Harbor Tribal Council, 1997.

**Table 33. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Old Harbor, 1997**

**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%	19	28.4%	22.7	28.4%
Adult Female	1	5.3%	1.2	5.3%	6	9.0%	7.2	9.0%
Adult Unknown Sex	8	42.1%	9.6	42.1%	13	19.4%	15.5	19.4%
Juvenile Male	4	21.1%	4.8	21.1%	12	17.9%	14.3	17.9%
Juvenile Female	1	5.3%	1.2	5.3%	3	4.5%	3.6	4.5%
Juvenile Unknown Sex	2	10.5%	2.4	10.5%	9	13.4%	10.8	13.4%
Pup Male	0	0.0%	0.0	0.0%	1	1.5%	1.2	1.5%
Pup Female	0	0.0%	0.0	0.0%	1	1.5%	1.2	1.5%
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	3	15.8%	3.6	15.8%	3	4.5%	3.6	4.5%
<b>Total</b>	<b>19</b>	<b>100.0%</b>	<b>22.7</b>	<b>100.0%</b>	<b>67</b>	<b>100.0%</b>	<b>80.0</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	32.9	13.2	46.1	1992	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

SOURCE: Alaska Department 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, 1997.

**Table 34. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ouzinkie, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	27
	Surveyed Households	23
	Sampling Fraction	85.2%
	Sample Household Members	89
	Estimated Household Members	104.5
	Estimated Native Population	162.1

**HARVEST AND USE INFORMATION**

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	0.0%	91.3%	Total Number Harvested	0.0	55.2
Hunted	0.0%	91.3%	Total Number Struck and Lost	0.0	9.4
Harvested	0.0%	73.9%	Total Number Taken	0.0	64.6
Received	0.0%	43.5%			
Gave Away	0.0%	39.1%	Number Harvested Per Capita	0.00	0.34

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	5	6	1	1	1	0	3	1	2	9	9	9	0	47
Struck & Lost	2	0	1	1	0	0	0	0	0	2	2	0	0	8
Total Take	7	6	2	2	1	0	3	1	2	11	11	9	0	55
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	5.9	7.0	1.2	1.2	1.2	0.0	3.5	1.2	2.3	10.6	10.6	10.6	0.0	55.2
Struck & Lost	2.3	0.0	1.2	1.2	0.0	0.0	0.0	0.0	0.0	2.3	2.3	0.0	0.0	9.4
Total Take	8.2	7.0	2.3	2.3	1.2	0.0	3.5	1.2	2.3	12.9	12.9	10.6	0.0	64.6
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	5.9	7.0	1.2	1.2	1.2	0.0	3.5	1.2	2.3	10.6	10.6	10.6	0.0	55.2
Struck & Lost	2.3	0.0	1.2	1.2	0.0	0.0	0.0	0.0	0.0	2.3	2.3	0.0	0.0	9.4
Total Take	8.2	7.0	2.3	2.3	1.2	0.0	3.5	1.2	2.3	12.9	12.9	10.6	0.0	64.6
Total Take (%)	12.7%	10.9%	3.6%	3.6%	1.8%	0.0%	5.5%	1.8%	3.6%	20.0%	20.0%	16.4%	0.0%	100.0%
Cum. Take	8.2	15.3	17.6	20.0	21.1	21.1	24.7	25.8	28.2	41.1	54.0	64.6	64.6	64.6
Cum. Take (%)	12.7%	23.6%	27.3%	30.9%	32.7%	32.7%	38.2%	40.0%	43.6%	63.6%	83.6%	100.0%	100.0%	100.0%

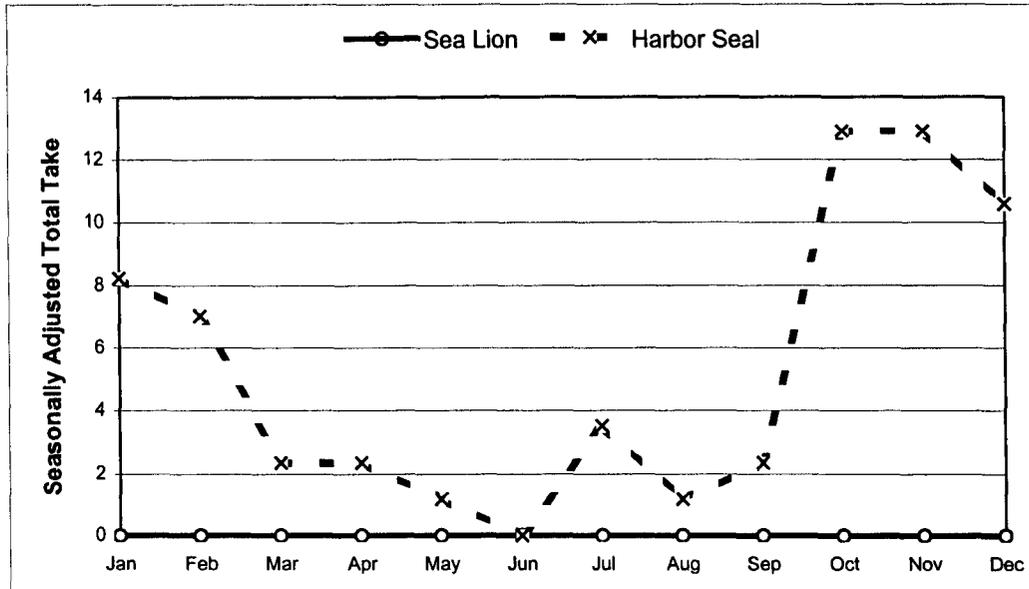
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ouzinkie Native Corporation, City of Ouzinkie, and Ouzinkie Tribal Council, 1997.

**Table 34. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ouzinkie, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	20	42.6%	23.5	42.6%
Adult Female	0	--	0.0	--	7	14.9%	8.2	14.9%
Adult Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Male	0	--	0.0	--	13	27.7%	15.3	27.7%
Juvenile Female	0	--	0.0	--	6	12.8%	7.0	12.8%
Juvenile Unknown Sex	0	--	0.0	--	1	2.1%	1.2	2.1%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>47</b>	<b>100.0%</b>	<b>55.2</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

SOURCE: Alaska Department 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, 1997.

**Table 35. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Port Lions, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	7
	Surveyed Households	7
	Sampling Fraction	100.0%
	Sample Household Members	27
	Estimated Household Members	27.0
	Estimated Native Population	147.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	14.3%	57.1%	Total Number Harvested	1.0	5.0
Hunted	14.3%	28.6%	Total Number Struck and Lost	0.0	0.0
Harvested	14.3%	28.6%	Total Number Taken	1.0	5.0
Received	0.0%	28.6%			
Gave Away	14.3%	14.3%	Number Harvested Per Capita	0.01	0.03

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

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

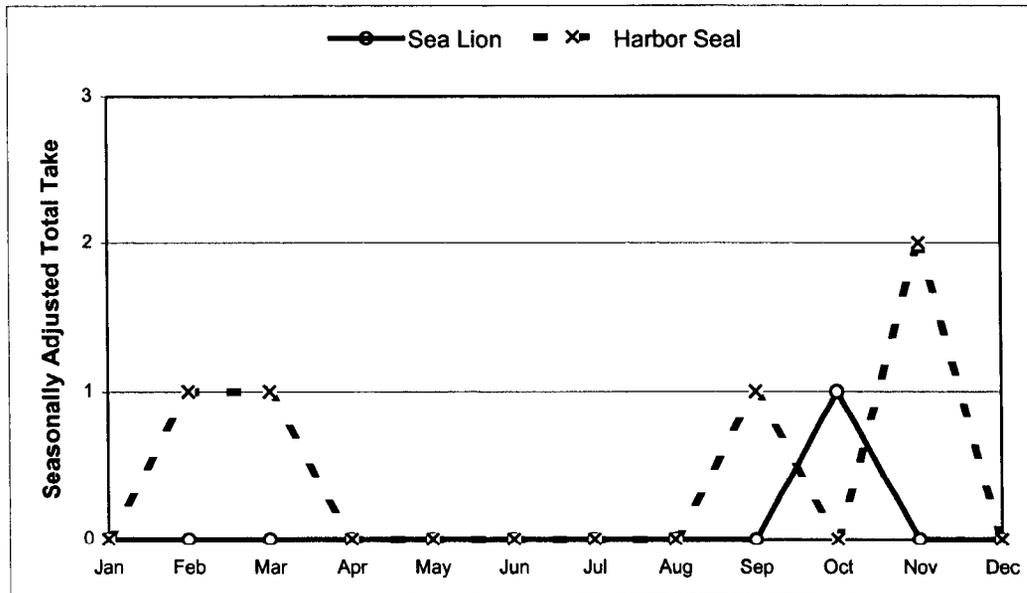
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Lions Tribal Council and City of Port Lions, 1997.

**Table 35. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Lions, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%	1	20.0%	1.0	20.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	100.0%	1.0	100.0%	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%	2	40.0%	2.0	40.0%
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	40.0%	2.0	40.0%
<b>Total</b>	<b>1</b>	<b>100.0%</b>	<b>1.0</b>	<b>100.0%</b>	<b>5</b>	<b>100.0%</b>	<b>5.0</b>	<b>100.0%</b>

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



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

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

SOURCE: Alaska Department 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, 1997.

**Table 36. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Chignik Bay, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	22
	Surveyed Households	15
	Sampling Fraction	68.2%
	Sample Household Members	39
	Estimated Household Members	57.2
	Estimated Native Population	57.2

**HARVEST AND USE INFORMATION**

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

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

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

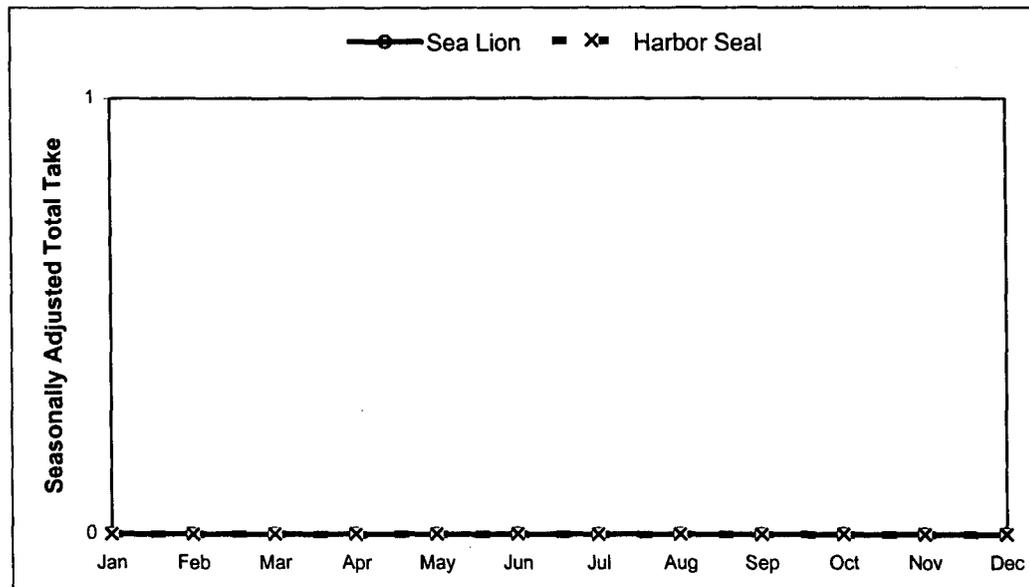
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Bay Traditional Village Council, 1997.

**Table 36. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chignik Bay, 1997**

**HARVEST BY AGE AND SEX**

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

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

SOURCE: Alaska Department 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, 1997.

**Table 37. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: Chignik Lagoon, 1997**

*SAMPLING DESIGN:*

<b>CENSUS</b>	Total Native Households	20
	Surveyed Households	15
	Sampling Fraction	75.0%
	Sample Household Members	53
	Estimated Household Members	70.7
	Estimated Native Population	70.7

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	0.0%	6.7%	Total Number Harvested	0.0	1.3
Hunted	0.0%	6.7%	Total Number Struck and Lost	0.0	1.3
Harvested	0.0%	6.7%	Total Number Taken	0.0	2.7
Received	0.0%	0.0%			
Gave Away	0.0%	6.7%	Number Harvested Per Capita	0.00	0.02

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Struck & Lost	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Total Take	0	0	0	0	0	0	0	0	0	0	2	0	0	2
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	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	1.3	0.0	0.0	1.3
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	2.7
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	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	1.3	0.0	0.0	1.3
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	2.7
Total Take (%)	0.0%	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	0.0	2.7	2.7	2.7	2.7
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%	100.0%	100.0%

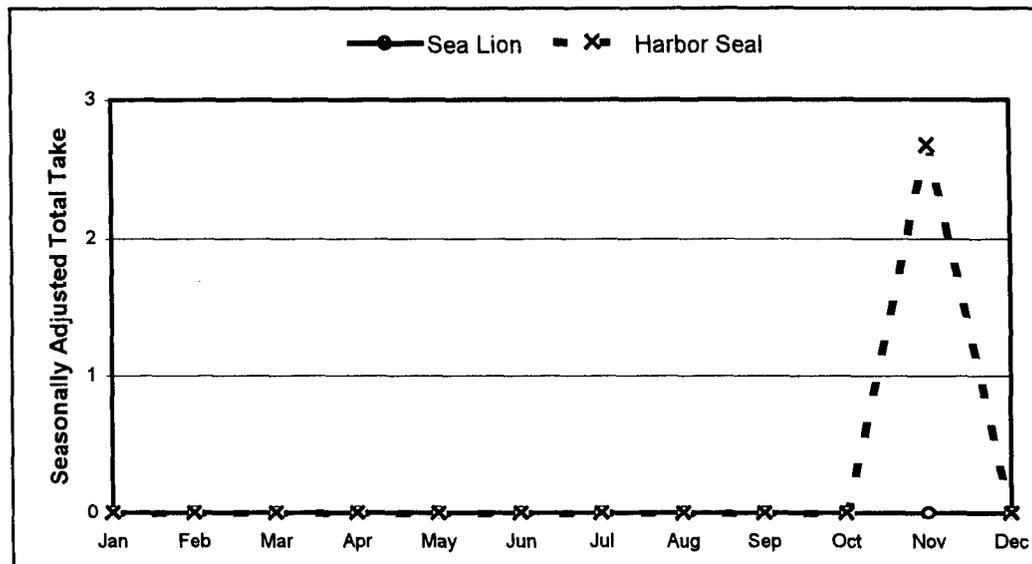
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lagoon Traditional Village Council, 1997.

**Table 37. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chignik Lagoon, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	—	0.0	—	0	0.0%	0.0	0.0%
Adult Female	0	—	0.0	—	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	—	0.0	—	1	100.0%	1.3	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%
<b>Total</b>	<b>0</b>	<b>—</b>	<b>0.0</b>	<b>—</b>	<b>1</b>	<b>100.0%</b>	<b>1.3</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	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

SOURCE: Alaska Department 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, 1997.

**Table 38. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: Chignik Lake, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	32
	Surveyed Households	29
	Sampling Fraction	90.6%
	Sample Household Members	118
	Estimated Household Members	130.2
	Estimated Native Population	130.2

**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	0.0%	96.6%	Total Number Harvested	0.0	2.2
Hunted	0.0%	13.8%	Total Number Struck and Lost	0.0	1.1
Harvested	0.0%	6.9%	Total Number Taken	0.0	3.3
Received	0.0%	96.6%			
Gave Away	0.0%	41.4%	Number Harvested Per Capita	0.00	0.02

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

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

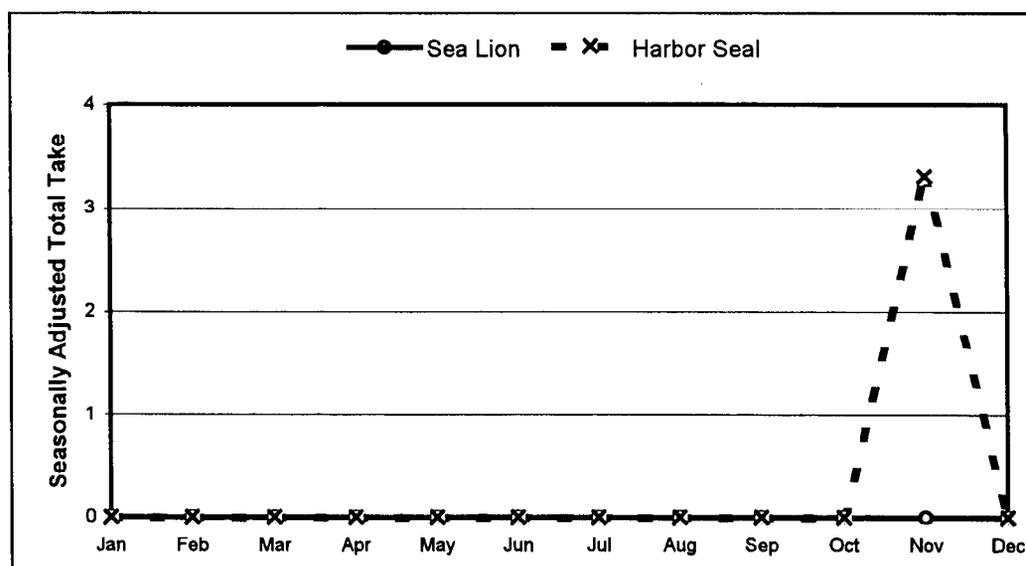
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Chignik Lake Traditional Village Council, 1997.

**Table 38. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chignik Lake, 1997**

*HARVEST BY AGE AND SEX*

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	—	0.0	—	1	50.0%	1.1	50.0%
Adult Female	0	—	0.0	—	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	—	0.0	—	1	50.0%	1.1	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%
<b>Total</b>	<b>0</b>	<b>—</b>	<b>0.0</b>	<b>—</b>	<b>2</b>	<b>100.0%</b>	<b>2.2</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	8.3	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

SOURCE: Alaska Department 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, 1997.

**Table 39. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: False Pass, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	15
	Surveyed Households	15
	Sampling Fraction	100.0%
	Sample Household Members	30
	Estimated Household Members	30.0
	Estimated Native Population	30.0

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	0.0%	53.3%	Total Number Harvested	0.0	8.0
Hunted	0.0%	33.3%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	26.7%	Total Number Taken	0.0	8.0
Received	0.0%	33.3%			
Gave Away	0.0%	26.7%	Number Harvested Per Capita	0.00	0.27

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

<b>HARBOR SEAL HARVEST BY MONTH</b>												Unknown	Total	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	1	0	1	1	0	1	4	8
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	1	1	0	1	4	8
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0	1.0	4.0	8.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0	1.0	4.0	8.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0	2.0	8.0	8.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0	2.0	8.0	8.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	0.0%	25.0%	25.0%	0.0%	25.0%	100.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	4.0	6.0	6.0	8.0	8.0	8.0
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	25.0%	50.0%	75.0%	75.0%	100.0%	100.0%	100.0%

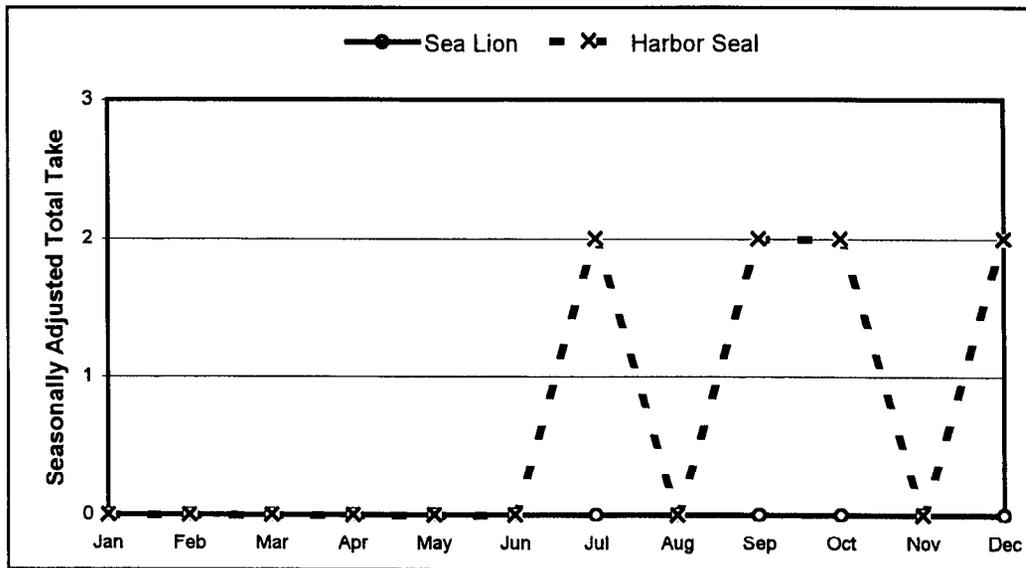
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the False Pass Tribal Council and City of False Pass, 1997.

**Table 39. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: False Pass, 1997**

*HARVEST BY AGE AND SEX*

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	—	0.0	—	0	0.0%	0.0	0.0%
Adult Female	0	—	0.0	—	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	—	0.0	—	3	37.5%	3.0	37.5%
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	—	4	50.0%	4.0	50.0%
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%	1.0	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%
<b>Total</b>	<b>0</b>	<b>—</b>	<b>0.0</b>	<b>—</b>	<b>8</b>	<b>100.0%</b>	<b>8.0</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	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

SOURCE: Alaska Department 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, 1997.

**Table 40. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ivanof Bay, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	9
	Surveyed Households	5
	Sampling Fraction	55.6%
	Sample Household Members	18
	Estimated Household Members	32.4
	Estimated Native Population	32.4

**HARVEST AND USE INFORMATION**

<b>Percentage of Native Households:</b>			<b>Estimated Community Harvest and Take (Expanded):</b>		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	20.0%	80.0%	Total Number Harvested	1.8	9.0
Hunted	20.0%	80.0%	Total Number Struck and Lost	0.0	1.8
Harvested	20.0%	60.0%	Total Number Taken	1.8	10.8
Received	0.0%	80.0%			
Gave Away	20.0%	60.0%	Number Harvested Per Capita	0.06	0.28

<b>SEA LION HARVEST BY MONTH</b>												Unknown	Total	
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	1	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	0	1	0	0	0	0	0	0	0	0	0	0	1
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
Total Take (%)	0.0%	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	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Cum. Take (%)	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

<b>HARBOR SEAL HARVEST BY MONTH</b>												Unknown	Total	
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	1	1	0	1	0	0	2	0	0	0	5
Struck & Lost	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Total Take	0	0	0	1	1	0	1	0	0	3	0	0	0	6
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	1.8	1.8	0.0	1.8	0.0	0.0	3.6	0.0	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	1.8	0.0	0.0	0.0	1.8
Total Take	0.0	0.0	0.0	1.8	1.8	0.0	1.8	0.0	0.0	5.4	0.0	0.0	0.0	10.8
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	1.8	1.8	0.0	1.8	0.0	0.0	3.6	0.0	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	1.8	0.0	0.0	0.0	1.8
Total Take	0.0	0.0	0.0	1.8	1.8	0.0	1.8	0.0	0.0	5.4	0.0	0.0	0.0	10.8
Total Take (%)	0.0%	0.0%	0.0%	16.7%	16.7%	0.0%	16.7%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	1.8	3.6	3.6	5.4	5.4	5.4	10.8	10.8	10.8	10.8	10.8
Cum. Take (%)	0.0%	0.0%	0.0%	16.7%	33.3%	33.3%	50.0%	50.0%	50.0%	100.0%	100.0%	100.0%	100.0%	100.0%

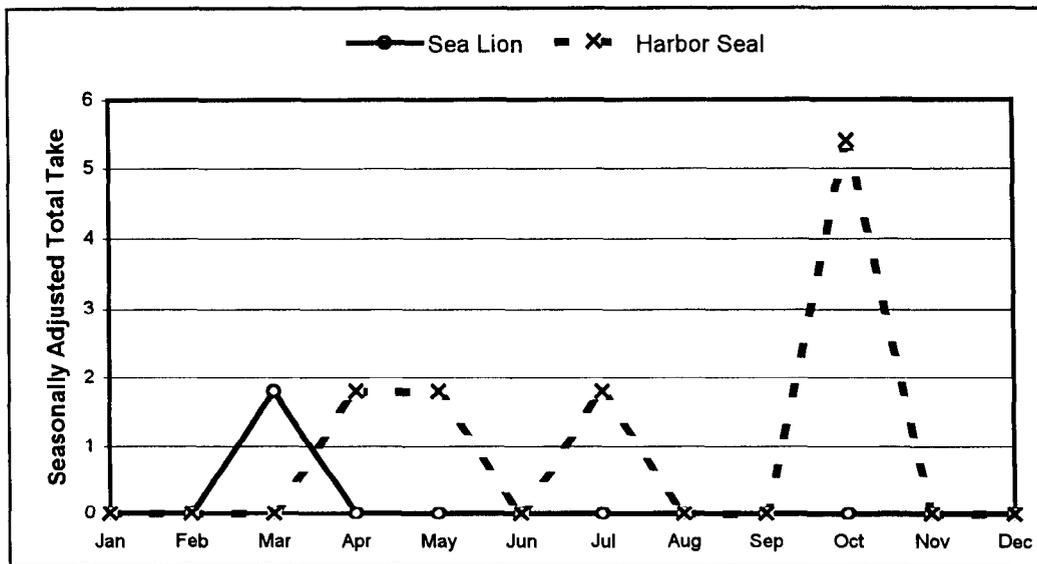
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Ivanof Bay Traditional Village Council, 1997.

Table 40. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ivanof Bay, 1997

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	3	60.0%	5.4	60.0%
Juvenile Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	100.0%	1.8	100.0%	1	20.0%	1.8	20.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	1	20.0%	1.8	20.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>1</b>	<b>100.0%</b>	<b>1.8</b>	<b>100.0%</b>	<b>5</b>	<b>100.0%</b>	<b>9.0</b>	<b>100.0%</b>

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	10.0	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

SOURCE: Alaska Department 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, 1997.

**Table 41. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: King Cove, 1997**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>	Total Native Households	18	100	118
	Surveyed Households	17	10	27
	Sampling Fraction	94.4%	10.0%	22.9%
	Sample Household Members	63	27	90
	Estimated Household Members	66.7	270.0	336.7
	Estimated Native Population	—	—	336.7

**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	2.7%	19.2%	Total Number Harvested	4.2	16.9
Hunted	2.7%	6.3%	Total Number Struck and Lost	0.0	2.1
Harvested	2.7%	6.3%	Total Number Taken	4.2	19.1
Received	2.7%	14.8%			
Gave Away	2.7%	6.3%	Number Harvested Per Capita	0.02	0.06

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	2	1	0	1	0	4
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	2	1	0	1	0	4
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	1.1	0.0	1.1	0.0	4.2
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	1.1	0.0	1.1	0.0	4.2
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	1.1	0.0	1.1		4.2
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	1.1	0.0	1.1		4.2
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	25.0%	0.0%	25.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	3.2	3.2	4.2		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	75.0%	75.0%	100.0%		

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	1	4	1	0	0	0	2	3	2	1	2	0	16
Struck & Lost	0	1	0	1	0	0	0	0	0	0	0	0	0	2
Total Take	0	2	4	2	0	0	0	2	3	2	1	2	0	18
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	1.1	4.2	1.1	0.0	0.0	0.0	2.1	3.2	2.1	1.1	2.1	0.0	16.9
Struck & Lost	0.0	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
Total Take	0.0	2.1	4.2	2.1	0.0	0.0	0.0	2.1	3.2	2.1	1.1	2.1	0.0	19.1
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	1.1	4.2	1.1	0.0	0.0	0.0	2.1	3.2	2.1	1.1	2.1		16.9
Struck & Lost	0.0	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.1
Total Take	0.0	2.1	4.2	2.1	0.0	0.0	0.0	2.1	3.2	2.1	1.1	2.1		19.1
Total Take (%)	0.0%	11.1%	22.2%	11.1%	0.0%	0.0%	0.0%	11.1%	16.7%	11.1%	5.6%	11.1%		100.0%
Cum. Take	0.0	2.1	6.4	8.5	8.5	8.5	8.5	10.6	13.8	15.9	16.9	19.1		
Cum. Take (%)	0.0%	11.1%	33.3%	44.4%	44.4%	44.4%	44.4%	55.6%	72.2%	83.3%	88.9%	100.0%		

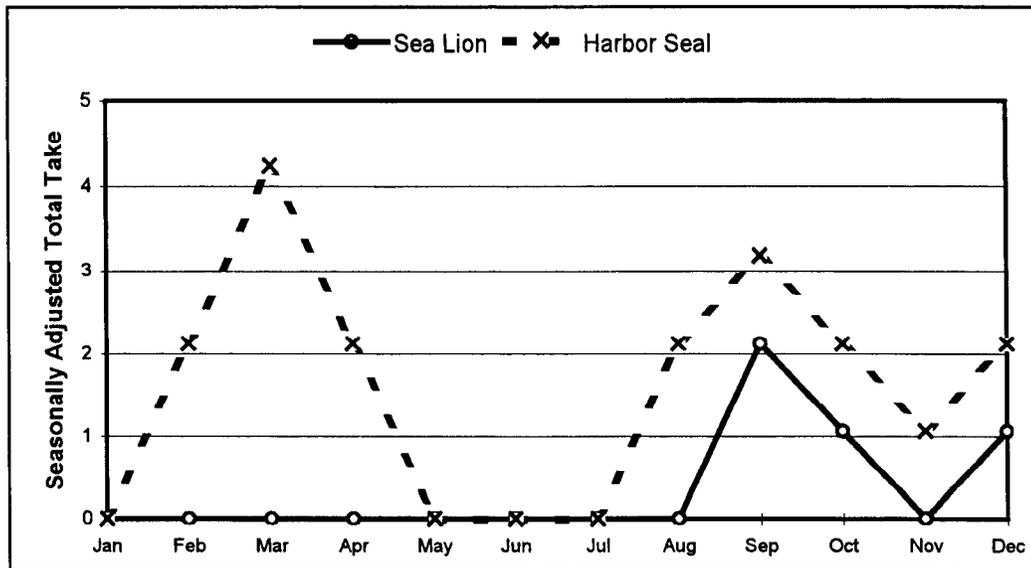
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Agdaagux Tribe of King Cove, Belofski Village Council, and City of King Cove, 1997.

**Table 41. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: King Cove, 1997**

*HARVEST BY AGE AND SEX*

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	2	50.0%	2.1	50.0%	9	56.3%	9.5	56.3%
Adult Female	2	50.0%	2.1	50.0%	4	25.0%	4.2	25.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	1	6.3%	1.1	6.3%
Juvenile Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	2	12.5%	2.1	12.5%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>4</b>	<b>100.0%</b>	<b>4.2</b>	<b>100.0%</b>	<b>16</b>	<b>100.0%</b>	<b>16.9</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

SOURCE: Alaska Department 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, 1997.

**Table 42. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Perryville, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	32
	Surveyed Households	28
	Sampling Fraction	87.5%
	Sample Household Members	103
	Estimated Household Members	117.7
	Estimated Native Population	117.7

**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	7.1%	85.7%	Total Number Harvested	2.3	21.7
Hunted	3.6%	53.6%	Total Number Struck and Lost	0.0	5.7
Harvested	3.6%	25.0%	Total Number Taken	2.3	27.4
Received	3.6%	82.1%			
Gave Away	3.6%	25.0%	Number Harvested Per Capita	0.02	0.18

<b>SEA LION HARVEST BY MONTH</b>													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
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
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	2.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	2.3
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0		2.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0		2.3
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	2.3	2.3	2.3	2.3		
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%		

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	4	0	1	1	0	0	0	1	2	4	2	4	0	19
Struck & Lost	0	1	0	0	0	0	0	0	0	2	1	1	0	5
Total Take	4	1	1	1	0	0	0	1	2	6	3	5	0	24
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	4.6	0.0	1.1	1.1	0.0	0.0	0.0	1.1	2.3	4.6	2.3	4.6	0.0	21.7
Struck & Lost	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.1	1.1	0.0	5.7
Total Take	4.6	1.1	1.1	1.1	0.0	0.0	0.0	1.1	2.3	6.9	3.4	5.7	0.0	27.4
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	4.6	0.0	1.1	1.1	0.0	0.0	0.0	1.1	2.3	4.6	2.3	4.6		21.7
Struck & Lost	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.1	1.1		5.7
Total Take	4.6	1.1	1.1	1.1	0.0	0.0	0.0	1.1	2.3	6.9	3.4	5.7		27.4
Total Take (%)	16.7%	4.2%	4.2%	4.2%	0.0%	0.0%	0.0%	4.2%	8.3%	25.0%	12.5%	20.8%		100.0%
Cum. Take	4.6	5.7	6.9	8.0	8.0	8.0	8.0	9.1	11.4	18.3	21.7	27.4		
Cum. Take (%)	16.7%	20.8%	25.0%	29.2%	29.2%	29.2%	29.2%	33.3%	41.7%	66.7%	79.2%	100.0%		

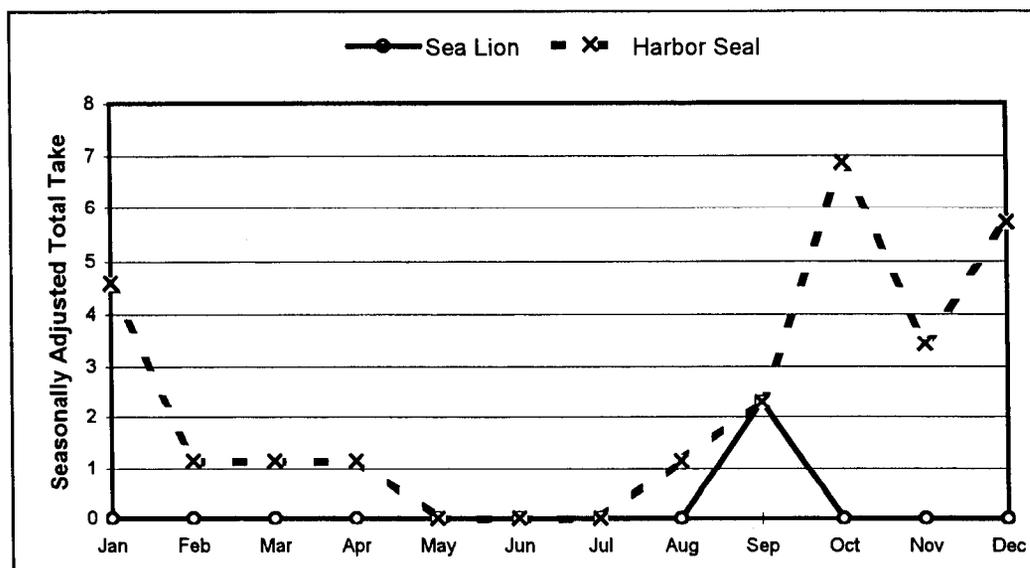
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Perryville Traditional Village Council, 1997.

**Table 42. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Perryville, 1997**

*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	21.1%	4.6	21.1%
Adult Female	0	0.0%	0.0	0.0%	2	10.5%	2.3	10.5%
Adult Unknown Sex	2	100.0%	2.3	100.0%	4	21.1%	4.6	21.1%
Juvenile Male	0	0.0%	0.0	0.0%	4	21.1%	4.6	21.1%
Juvenile Female	0	0.0%	0.0	0.0%	2	10.5%	2.3	10.5%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	2	10.5%	2.3	10.5%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	1	5.3%	1.1	5.3%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>2</b>	<b>100.0%</b>	<b>2.3</b>	<b>100.0%</b>	<b>19</b>	<b>100.0%</b>	<b>21.7</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

SOURCE: Alaska Department 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, 1997.

**Table 43. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Sand Point, 1997**

**SAMPLING DESIGN:**

<b>CHAIN REFERRAL</b>	Total Referred Households	16
	Surveyed Households	14
	Sampling Fraction	87.5%
	Sample Household Members	56
	Estimated Household Members	64.0
	Estimated Native Population	485.1

**HARVEST AND USE INFORMATION**

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea <u>Lion</u>	Harbor <u>Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	57.1%	Total Number Harvested	0.0	9.1
Hunted	0.0%	50.0%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	50.0%	Total Number Taken	0.0	9.1
Received	0.0%	21.4%			
Gave Away	0.0%	28.6%	Number Harvested Per Capita	0.00	0.02

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	1	1	2	0	0	1	2	1	0	8
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	1	1	2	0	0	1	2	1	0	8
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	1.1	1.1	2.3	0.0	0.0	1.1	2.3	1.1	0.0	9.1
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	1.1	2.3	0.0	0.0	1.1	2.3	1.1	0.0	9.1
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	1.1	1.1	2.3	0.0	0.0	1.1	2.3	1.1	0.0	9.1
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	1.1	2.3	0.0	0.0	1.1	2.3	1.1	0.0	9.1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	12.5%	12.5%	25.0%	0.0%	0.0%	12.5%	25.0%	12.5%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	1.1	2.3	4.6	4.6	4.6	5.7	8.0	9.1	9.1	9.1
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	12.5%	25.0%	50.0%	50.0%	50.0%	62.5%	87.5%	100.0%	100.0%	100.0%

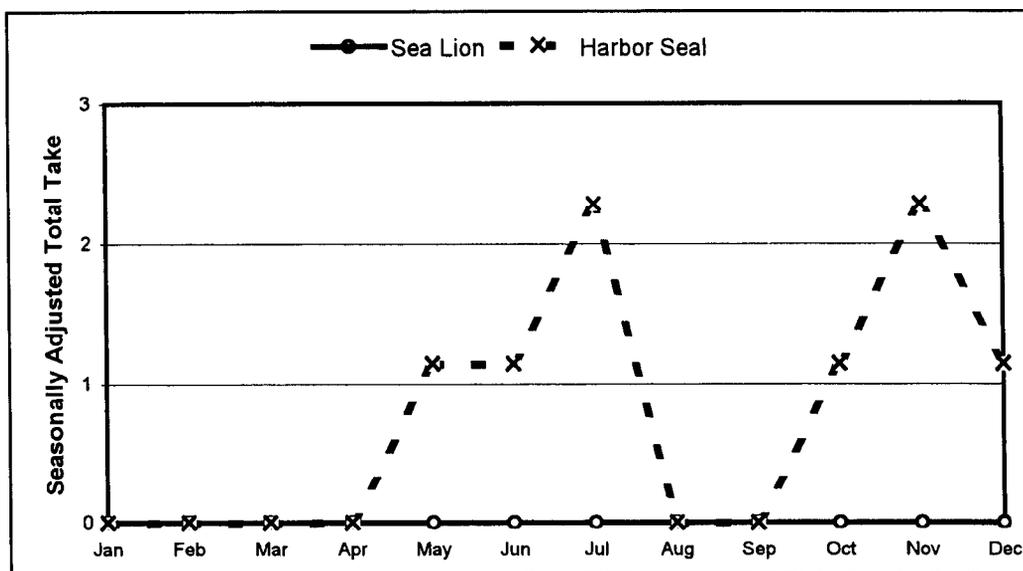
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of Sand Point, Unga Tribal Council, and Qagan Tayagungl Tribe of Sand Point, 1997.

**Table 43. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Sand Point, 1997**

*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	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	--	1	12.5%	1.1	12.5%
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	--	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>8</b>	<b>100.0%</b>	<b>9.1</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	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

SOURCE: Alaska Department 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, 1997.

**Table 44. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Akutan, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	28
	Surveyed Households	22
	Sampling Fraction	78.6%
	Sample Household Members	55
	Estimated Household Members	70.0
	Estimated Native Population	70.0

**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	86.4%	72.7%	Total Number Harvested	6.4	14.0
Hunted	9.1%	22.7%	Total Number Struck and Lost	0.0	3.8
Harvested	9.1%	18.2%	Total Number Taken	6.4	17.8
Received	81.8%	59.1%			
Gave Away	13.6%	27.3%	Number Harvested Per Capita	0.09	0.20

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	2	0	0	0	0	0	0	0	0	3	5
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	2	0	0	0	0	0	0	0	0	3	5
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.4
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	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.4
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		6.4
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	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		6.4
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	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4		6.4
Cum. Take (%)	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		100.0%

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	1	1	1	1	0	0	1	2	0	2	1	1	0	11
Struck & Lost	0	1	0	0	0	0	2	0	0	0	0	0	0	3
Total Take	1	2	1	1	0	0	3	2	0	2	1	1	0	14
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.3	1.3	1.3	1.3	0.0	0.0	1.3	2.5	0.0	2.5	1.3	1.3	0.0	14.0
Struck & Lost	0.0	1.3	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	3.8
Total Take	1.3	2.5	1.3	1.3	0.0	0.0	3.8	2.5	0.0	2.5	1.3	1.3	0.0	17.8
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.3	1.3	1.3	1.3	0.0	0.0	1.3	2.5	0.0	2.5	1.3	1.3		14.0
Struck & Lost	0.0	1.3	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0		3.8
Total Take	1.3	2.5	1.3	1.3	0.0	0.0	3.8	2.5	0.0	2.5	1.3	1.3		17.8
Total Take (%)	7.1%	14.3%	7.1%	7.1%	0.0%	0.0%	21.4%	14.3%	0.0%	14.3%	7.1%	7.1%		100.0%
Cum. Take	1.3	3.8	5.1	6.4	6.4	6.4	10.2	12.7	12.7	15.3	16.5	17.8		17.8
Cum. Take (%)	7.1%	21.4%	28.6%	35.7%	35.7%	35.7%	57.1%	71.4%	71.4%	85.7%	92.9%	100.0%		100.0%

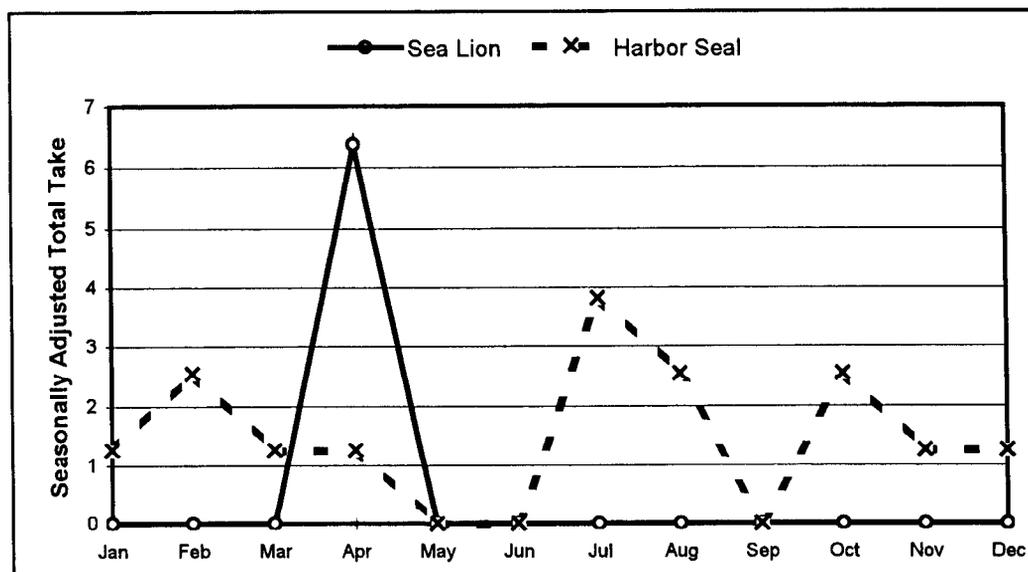
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Akutan Traditional Village Council, City of Akutan, and Akutan Corporation, 1997.

**Table 44. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Akutan, 1997**

*HARVEST BY AGE AND SEX*

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	2	40.0%	2.5	40.0%	8	72.7%	10.2	72.7%
Adult Female	3	60.0%	3.8	60.0%	2	18.2%	2.5	18.2%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	1	9.1%	1.3	9.1%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>5</b>	<b>100.0%</b>	<b>6.4</b>	<b>100.0%</b>	<b>11</b>	<b>100.0%</b>	<b>14.0</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	25.7	4.3	30.0	1992	12.9	4.3	17.1
1993	14.5	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

SOURCE: Alaska Department 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, 1997.

**Table 45. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Atka, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	26
	Surveyed Households	17
	Sampling Fraction	65.4%
	Sample Household Members	47
	Estimated Household Members	71.9
	Estimated Native Population	71.9

**HARVEST AND USE INFORMATION**

<b>Percentage of Native Households:</b>			<b>Estimated Community Harvest and Take (Expanded):</b>		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	100.0%	100.0%	Total Number Harvested	12.2	26.0
Hunted	35.3%	35.3%	Total Number Struck and Lost	0.0	1.5
Harvested	23.5%	11.8%	Total Number Taken	12.2	27.5
Received	100.0%	100.0%			
Gave Away	29.4%	23.5%	Number Harvested Per Capita	0.17	0.36

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	3	0	0	0	0	0	0	0	0	0	0	2	3	8
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	3	0	0	0	0	0	0	0	0	0	0	2	3	8
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	4.6	12.2
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	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	4.6	12.2
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9		12.2
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	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9		12.2
Total Take (%)	60.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	40.0%		100.0%
Cum. Take	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	12.2		
Cum. Take (%)	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	100.0%		

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	2	0	3	1	0	0	2	9	17
Struck & Lost	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total Take	0	0	0	0	0	2	0	4	1	0	0	2	9	18
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	3.1	0.0	4.6	1.5	0.0	0.0	3.1	13.8	26.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	1.5
Total Take	0.0	0.0	0.0	0.0	0.0	3.1	0.0	6.1	1.5	0.0	0.0	3.1	13.8	27.5
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	6.5	0.0	9.8	3.3	0.0	0.0	6.5		26.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0		1.5
Total Take	0.0	0.0	0.0	0.0	0.0	6.5	0.0	11.3	3.3	0.0	0.0	6.5		27.5
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	23.6%	0.0%	41.0%	11.8%	0.0%	0.0%	23.6%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	6.5	6.5	17.8	21.0	21.0	21.0	27.5		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	23.6%	23.6%	64.6%	76.4%	76.4%	76.4%	100.0%		

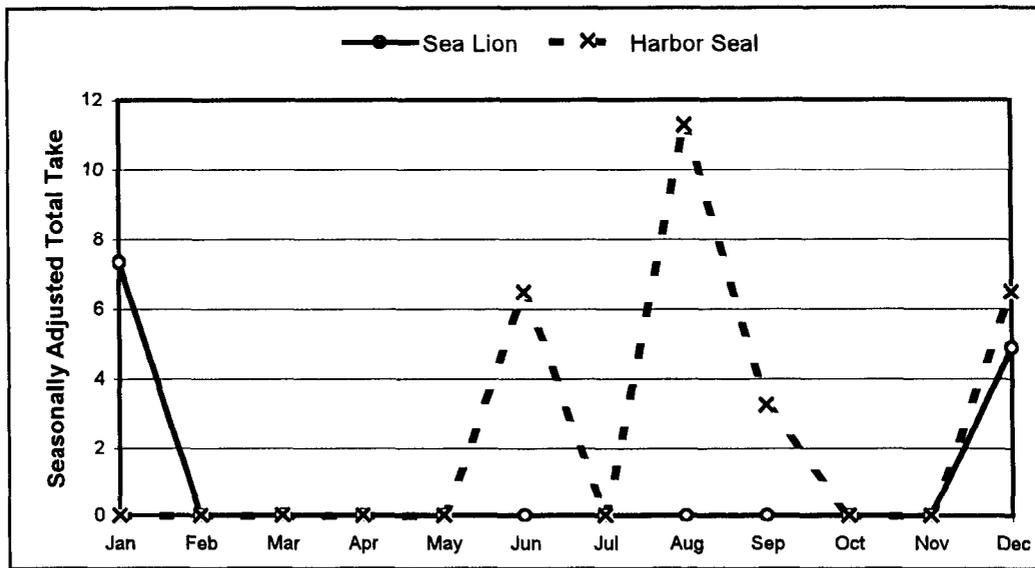
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Atka IRA Council and City of Atka, 1997.

**Table 45. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Atka, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	5	62.5%	7.6	62.5%	0	0.0%	0.0	0.0%
Adult Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	1	12.5%	1.5	12.5%	3	17.6%	4.6	17.6%
Juvenile Female	2	25.0%	3.1	25.0%	3	17.6%	4.6	17.6%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	2	11.8%	3.1	11.8%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	9	52.9%	13.8	52.9%
<b>Total</b>	<b>8</b>	<b>100.0%</b>	<b>12.2</b>	<b>100.0%</b>	<b>17</b>	<b>100.0%</b>	<b>26.0</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	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

SOURCE: Alaska Department 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, 1997.

**Table 46. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Nikolski, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	11
	Surveyed Households	11
	Sampling Fraction	100.0%
	Sample Household Members	26
	Estimated Household Members	26.0
	Estimated Native Population	26.0

**HARVEST AND USE INFORMATION**

<b>Percentage of Native Households:</b>			<b>Estimated Community Harvest and Take (Expanded):</b>		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	36.4%	45.5%	Total Number Harvested	3.0	4.0
Hunted	27.3%	27.3%	Total Number Struck and Lost	0.0	1.0
Harvested	27.3%	27.3%	Total Number Taken	3.0	5.0
Received	9.1%	18.2%			
Gave Away	27.3%	27.3%	Number Harvested Per Capita	0.12	0.15

<b>SEA LION HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	1	0	2	0	0	0	0	0	0	0	0	0	0	3
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	0	2	0	0	0	0	0	0	0	0	0	0	3
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
Total Take (%)	33.3%	0.0%	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	1.0	1.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Cum. Take (%)	33.3%	33.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	1	0	0	0	0	3	0	0	0	0	0	4
Struck & Lost	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total Take	0	0	1	0	0	0	0	4	0	0	0	0	0	5
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	1.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	4.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0
Total Take	0.0	0.0	1.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	5.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	1.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	4.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0
Total Take	0.0	0.0	1.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	5.0
Total Take (%)	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	80.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	1.0	1.0	1.0	1.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	
Cum. Take (%)	0.0%	0.0%	20.0%	20.0%	20.0%	20.0%	20.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

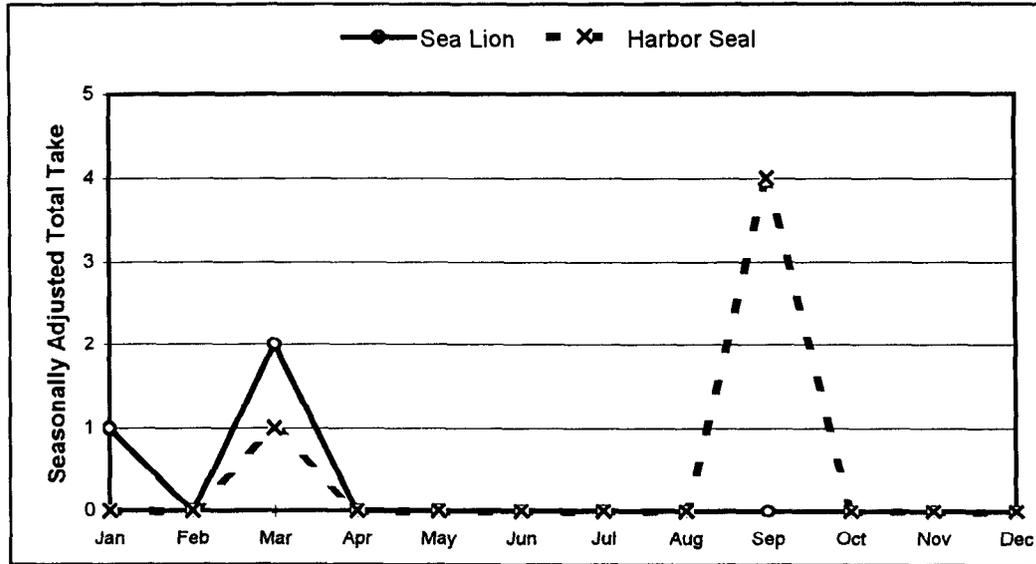
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Nikolski IRA Council and Chaluka Corporation, 1997.

**Table 46. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Nikolski, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	2	50.0%	2.0	50.0%
Adult Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	3	100.0%	3.0	100.0%	2	50.0%	2.0	50.0%
<b>Total</b>	<b>3</b>	<b>100.0%</b>	<b>3.0</b>	<b>100.0%</b>	<b>4</b>	<b>100.0%</b>	<b>4.0</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	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

SOURCE: Alaska Department 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, 1997.

**Table 47. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Unalaska, 1997**

<b>SAMPLING DESIGN:</b>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<b>TWO-STRATA</b>	Total Native Households	24	89	113
	Surveyed Households	19	35	54
	Sampling Fraction	79.2%	39.3%	47.8%
	Sample Household Members	52	80	132
	Estimated Household Members	65.7	203.4	269.1
	Estimated Native Population	---	---	269.1

**HARVEST AND USE INFORMATION**

<b>Percentage of Native Households:</b>			<b>Estimated Community Harvest and Take (Expanded):</b>		
	<u>Sea Lion</u>	<u>Harbor Seal</u>		<u>Sea Lion</u>	<u>Harbor Seal</u>
Used	52.8%	57.3%	Total Number Harvested	29.1	26.5
Hunted	5.6%	5.6%	Total Number Struck and Lost	1.3	0.0
Harvested	5.6%	5.6%	Total Number Taken	30.3	26.5
Received	52.8%	57.3%			
Gave Away	5.6%	5.6%	Number Harvested Per Capita	0.14	0.13

<b>SEA LION HARVEST BY MONTH</b>													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	1	1	3	2	1	1	1	2	4	2	5	0	0	23
Struck & Lost	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Total Take	1	2	3	2	1	1	1	2	4	2	5	0	0	24
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.3	1.3	3.8	2.5	1.3	1.3	1.3	2.5	5.1	2.5	6.3	0.0	0.0	29.1
Struck & Lost	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
Total Take	1.3	2.5	3.8	2.5	1.3	1.3	1.3	2.5	5.1	2.5	6.3	0.0	0.0	30.3
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.3	1.3	3.8	2.5	1.3	1.3	1.3	2.5	5.1	2.5	6.3	0.0		29.1
Struck & Lost	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.3
Total Take	1.3	2.5	3.8	2.5	1.3	1.3	1.3	2.5	5.1	2.5	6.3	0.0		30.3
Total Take (%)	4.2%	8.3%	12.5%	8.3%	4.2%	4.2%	4.2%	8.3%	16.7%	8.3%	20.8%	0.0%		100.0%
Cum. Take	1.3	3.8	7.6	10.1	11.4	12.6	13.9	16.4	21.5	24.0	30.3	30.3		
Cum. Take (%)	4.2%	12.5%	25.0%	33.3%	37.5%	41.7%	45.8%	54.2%	70.8%	79.2%	100.0%	100.0%		

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	2	1	0	0	0	3	2	7	2	3	1	0	21
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	2	1	0	0	0	3	2	7	2	3	1	0	21
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	2.5	1.3	0.0	0.0	0.0	3.8	2.5	8.8	2.5	3.8	1.3	0.0	26.5
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	2.5	1.3	0.0	0.0	0.0	3.8	2.5	8.8	2.5	3.8	1.3	0.0	26.5
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	2.5	1.3	0.0	0.0	0.0	3.8	2.5	8.8	2.5	3.8	1.3		26.5
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	2.5	1.3	0.0	0.0	0.0	3.8	2.5	8.8	2.5	3.8	1.3		26.5
Total Take (%)	0.0%	9.5%	4.8%	0.0%	0.0%	0.0%	14.3%	9.5%	33.3%	9.5%	14.3%	4.8%		100.0%
Cum. Take	0.0	2.5	3.8	3.8	3.8	3.8	7.6	10.1	18.9	21.5	25.3	26.5		
Cum. Take (%)	0.0%	9.5%	14.3%	14.3%	14.3%	14.3%	28.6%	38.1%	71.4%	81.0%	95.2%	100.0%		

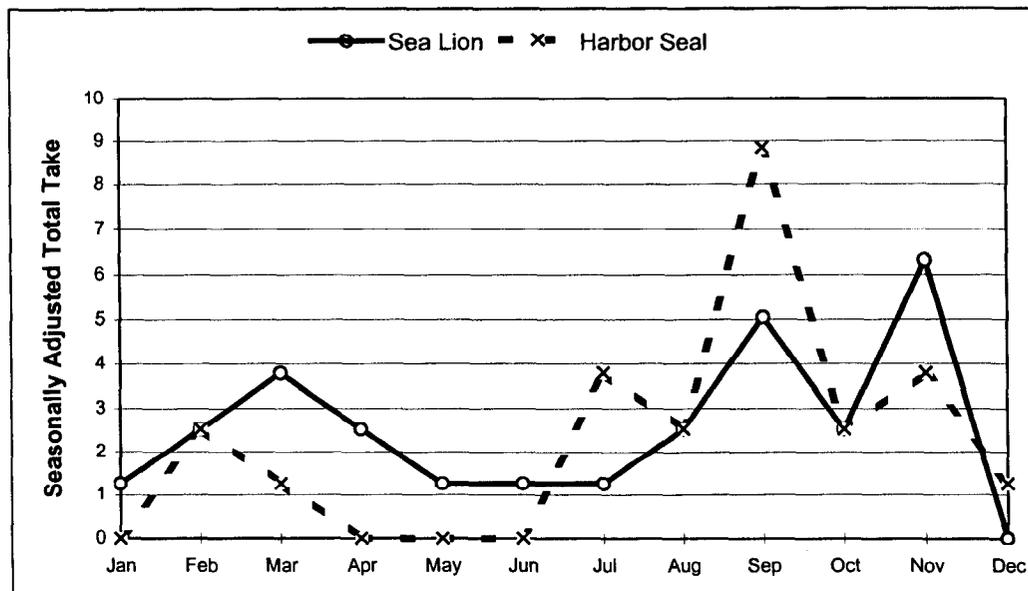
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Qawalangin Tribal Council, 1997.

**Table 47. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Unalaska, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	8	34.8%	10.1	34.8%	5	23.8%	6.3	23.8%
Adult Female	5	21.7%	6.3	21.7%	5	23.8%	6.3	23.8%
Adult Unknown Sex	3	13.0%	3.8	13.0%	4	19.0%	5.1	19.0%
Juvenile Male	6	26.1%	7.6	26.1%	7	33.3%	8.8	33.3%
Juvenile Female	1	4.3%	1.3	4.3%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>23</b>	<b>100.0%</b>	<b>29.1</b>	<b>100.0%</b>	<b>21</b>	<b>100.0%</b>	<b>26.5</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

SOURCE: Alaska Department 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, 1997.

**Table 48. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: St. George, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	45
	Surveyed Households	39
	Sampling Fraction	86.7%
	Sample Household Members	127
	Estimated Household Members	146.5
	Estimated Native Population	146.5

**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	61.5%	0.0%	Total Number Harvested	19.6	0.0
Hunted	28.2%	0.0%	Total Number Struck and Lost	8.1	0.0
Harvested	23.1%	0.0%	Total Number Taken	27.7	0.0
Received	56.4%	0.0%			
Gave Away	17.9%	0.0%	Number Harvested Per Capita	0.13	0.00

<b>SEA LION HARVEST BY MONTH</b>													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	2	5	3	0	0	0	0	0	0	0	0	2	5	17
Struck & Lost	1	2	2	0	0	0	0	0	0	0	0	0	2	7
Total Take	3	7	5	0	0	0	0	0	0	0	0	2	7	24
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	2.3	5.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.8	19.6
Struck & Lost	1.2	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	8.1
Total Take	3.5	8.1	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	8.1	27.7
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	3.3	8.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3		19.6
Struck & Lost	1.6	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		8.1
Total Take	4.9	11.4	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3		27.7
Total Take (%)	17.6%	41.2%	29.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.8%		100.0%
Cum. Take	4.9	16.3	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	27.7		
Cum. Take (%)	17.6%	58.8%	88.2%	88.2%	88.2%	88.2%	88.2%	88.2%	88.2%	88.2%	88.2%	100.0%		

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

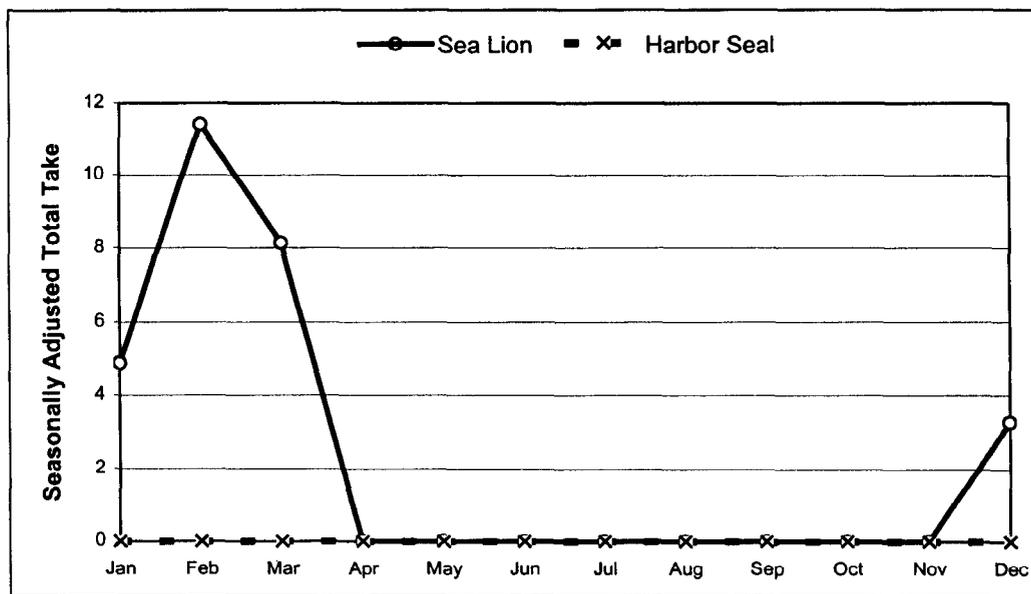
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, 1997.

**Table 48. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: St. George, 1997**

**HARVEST BY AGE AND SEX**

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	0	--	0.0	--
Adult Female	0	0.0%	0.0	0.0%	0	--	0.0	--
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	--	0.0	--
Juvenile Male	11	64.7%	12.7	64.7%	0	--	0.0	--
Juvenile Female	4	23.5%	4.6	23.5%	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	2	11.8%	2.3	11.8%	0	--	0.0	--
<b>Total</b>	<b>17</b>	<b>100.0%</b>	<b>19.6</b>	<b>100.0%</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	14.9	55.0	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

SOURCE: Alaska Department 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, 1997.

**Table 49. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: St. Paul, 1997**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>	Total Native Households	45	114	159
	Surveyed Households	39	41	80
	Sampling Fraction	86.7%	36.0%	50.3%
	Sample Household Members	153	124	277
	Estimated Household Members	176.5	344.8	521.3
	Estimated Native Population	---	---	521.3

**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	74.7%	17.3%	Total Number Harvested	25.9	0.0
Hunted	13.7%	0.0%	Total Number Struck and Lost	2.3	0.0
Harvested	8.3%	0.0%	Total Number Taken	28.2	0.0
Received	74.7%	17.3%			
Gave Away	12.2%	0.0%	Number Harvested Per Capita	0.05	0.00

<i>SEA LION HARVEST BY MONTH</i>														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	1	0	0	1	2	0	0	1	5	0	7	1	3	21
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Total Take	1	0	0	1	2	0	0	1	5	0	7	1	5	23
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.2	0.0	0.0	1.2	2.3	0.0	0.0	1.2	7.4	0.0	8.1	1.2	3.5	25.9
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	2.3	2.3
Total Take	1.2	0.0	0.0	1.2	2.3	0.0	0.0	1.2	7.4	0.0	8.1	1.2	5.8	28.2
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	1.3	0.0	0.0	1.3	2.7	0.0	0.0	1.3	8.5	0.0	9.3	1.3		25.9
Struck & Lost	0.1	0.0	0.0	0.1	0.2	0.0	0.0	0.1	0.8	0.0	0.8	0.1		2.3
Total Take	1.5	0.0	0.0	1.5	2.9	0.0	0.0	1.5	9.3	0.0	10.2	1.5		28.2
Total Take (%)	5.2%	0.0%	0.0%	5.2%	10.3%	0.0%	0.0%	5.2%	33.0%	0.0%	36.1%	5.2%		100.0%
Cum. Take	1.5	1.5	1.5	2.9	5.8	5.8	5.8	7.3	16.6	16.6	26.7	28.2		
Cum. Take (%)	5.2%	5.2%	5.2%	10.3%	20.6%	20.6%	20.6%	25.8%	58.8%	58.8%	94.8%	100.0%		

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

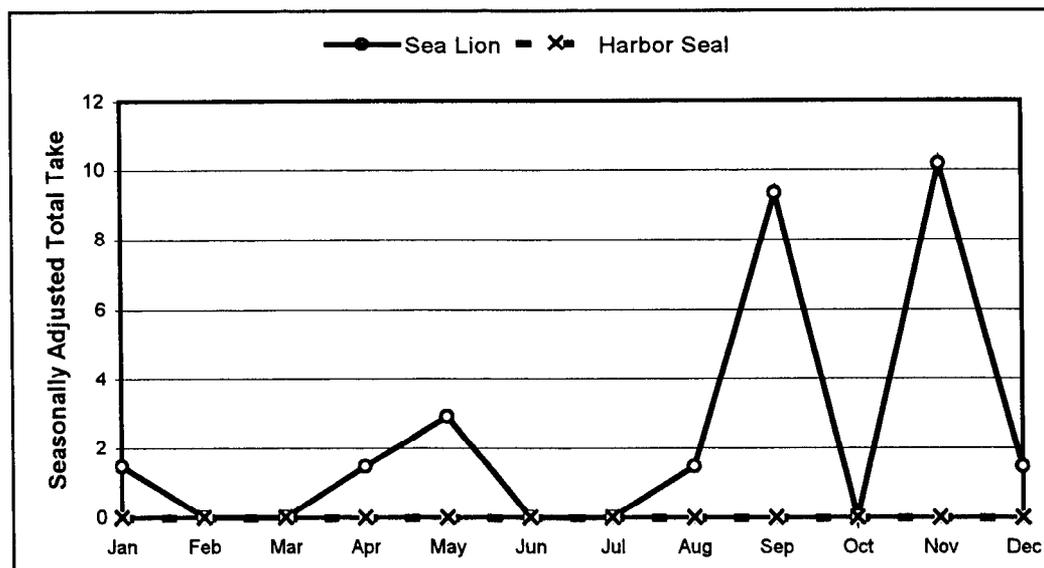
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of St. Paul and Tribal Government of St. Paul, 1997.

**Table 49. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: St. Paul, 1997**

*HARVEST BY AGE AND SEX*

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	0	—	0.0	—
Adult Female	0	0.0%	0.0	0.0%	0	—	0.0	—
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	—	0.0	—
Juvenile Male	20	95.2%	24.7	95.5%	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	1	4.8%	1.2	4.5%	0	—	0.0	—
Pup Female	0	0.0%	0.0	0.0%	0	—	0.0	—
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	—	0.0	—
Male Unknown Age	0	0.0%	0.0	0.0%	0	—	0.0	—
Female Unknown Age	0	0.0%	0.0	0.0%	0	—	0.0	—
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	—	0.0	—
<b>Total</b>	<b>21</b>	<b>100.0%</b>	<b>25.9</b>	<b>100.0%</b>	<b>0</b>	<b>—</b>	<b>0.0</b>	<b>—</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the City of St. Paul and Tribal Government of St. Paul, 1997.

**Table 50. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Egegik, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	36
	Surveyed Households	22
	Sampling Fraction	61.1%
	Sample Household Members	69
	Estimated Household Members	112.9
	Estimated Native Population	112.9

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	0.0%	13.6%	Total Number Harvested	0.0	1.6
Hunted	0.0%	4.5%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	4.5%	Total Number Taken	0.0	1.6
Received	0.0%	9.1%			
Gave Away	0.0%	0.0%	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		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take (%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cum. Take (%)	--	--	--	--	--	--	--	--	--	--	--	--	--	--

HARBOR SEAL HARVEST BY MONTH													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	1	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	0	0	1	0	0	0	0	0	0	0	0	0	1
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
Total Take (%)	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Cum. Take (%)	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

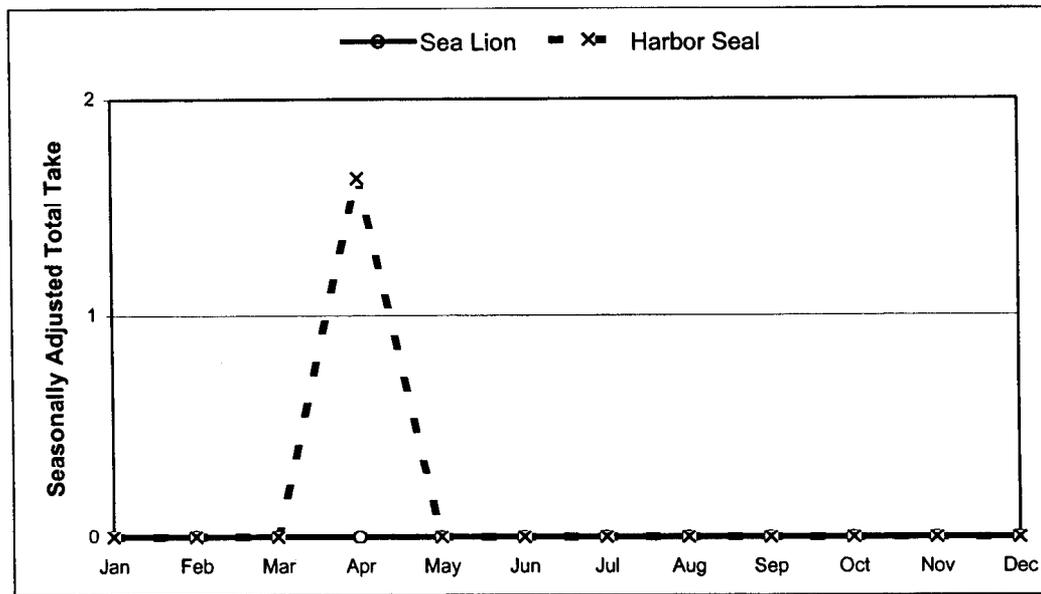
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Egegik Traditional Council, 1997.

**Table 50. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Egegik, 1997**

**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%	1.6	100.0%
Adult Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>1</b>	<b>100.0%</b>	<b>1.6</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	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

SOURCE: Alaska Department 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, 1997.

**Table 51. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: King Salmon, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	37
	Surveyed Households	19
	Sampling Fraction	51.4%
	Sample Household Members	65
	Estimated Household Members	126.6
	Estimated Native Population	126.6

**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	0.0%	15.8%		Total Number Harvested	0.0	9.7	
Hunted	0.0%	15.8%		Total Number Struck and Lost	0.0	0.0	
Harvested	0.0%	15.8%		Total Number Taken	0.0	9.7	
Received	0.0%	5.3%					
Gave Away	0.0%	15.8%		Number Harvested Per Capita	0.00	0.08	

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	5	0	0	0	0	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	5	0	0	0	0	0	0	0	0	5
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	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	9.7
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	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	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	9.7
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	9.7	0.0	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%	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	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%	100.0%	100.0%

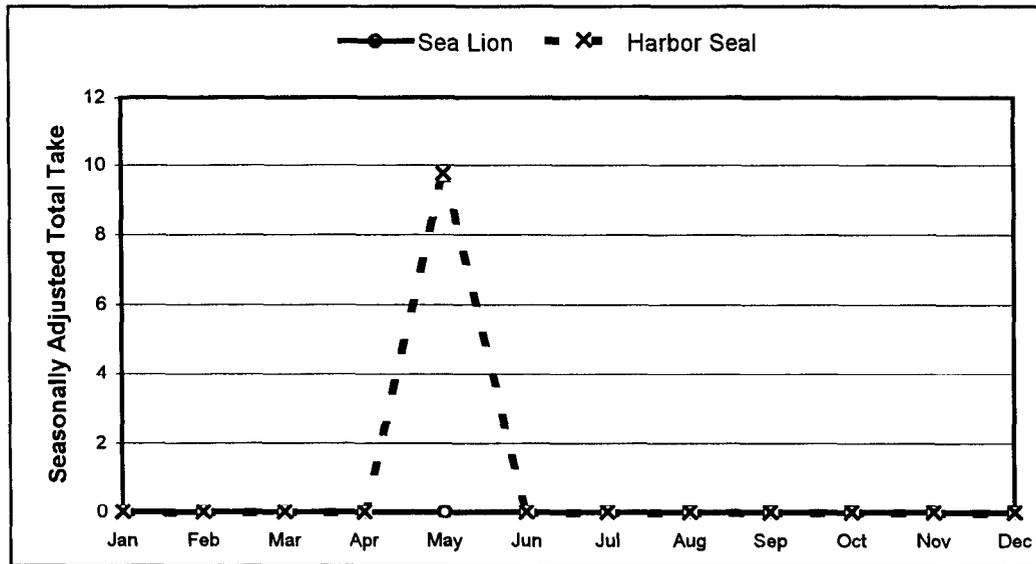
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the King Salmon Traditional Council, 1997.

**Table 51. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: King Salmon, 1997**

*HARVEST BY AGE AND SEX*

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	—	0.0	—	4	80.0%	7.8	80.0%
Adult Female	0	—	0.0	—	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	—	0.0	—	1	20.0%	1.9	20.0%
Juvenile Male	0	—	0.0	—	0	0.0%	0.0	0.0%
Juvenile Female	0	—	0.0	—	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%
Pup Male	0	—	0.0	—	0	0.0%	0.0	0.0%
Pup Female	0	—	0.0	—	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%
Male Unknown Age	0	—	0.0	—	0	0.0%	0.0	0.0%
Female Unknown Age	0	—	0.0	—	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	—	0.0	—	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>—</b>	<b>0.0</b>	<b>—</b>	<b>5</b>	<b>100.0%</b>	<b>9.7</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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	9.7	0.0	9.7
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

SOURCE: Alaska Department 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, 1997.

**Table 52. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Levelock, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	32
	Surveyed Households	26
	Sampling Fraction	81.3%
	Sample Household Members	59
	Estimated Household Members	72.6
	Estimated Native Population	72.6

**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

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

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

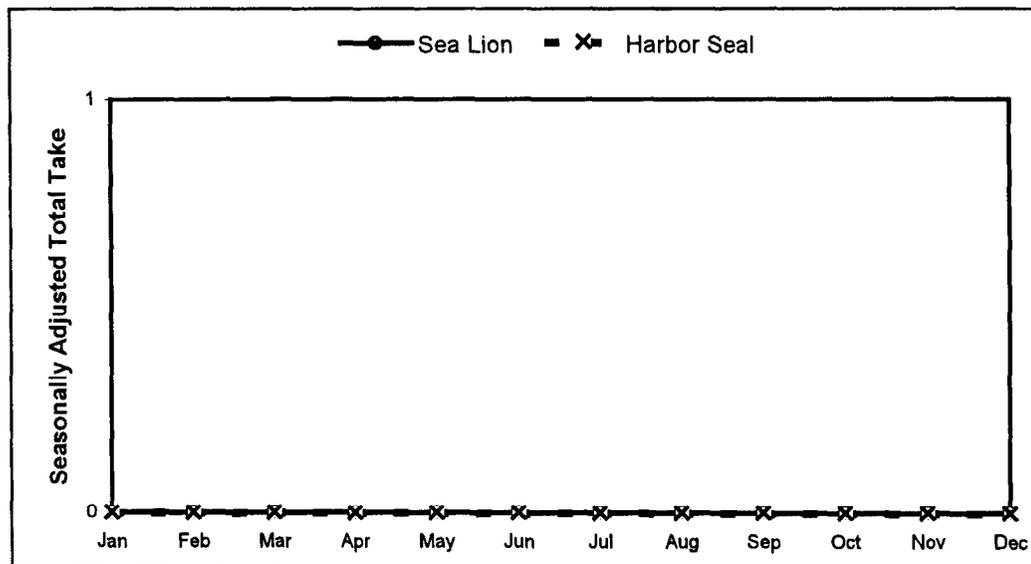
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Levelock Traditional Council, 1997.

**Table 52. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Levelock, 1997**

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

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

SOURCE: Alaska Department 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, 1997.

**Table 53. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Naknek, 1997**

SAMPLING DESIGN:		Active	Other	Total
TWO-STRATA	Total Native Households	14	85	99
	Surveyed Households	13	11	24
	Sampling Fraction	92.9%	12.9%	24.2%
	Sample Household Members	48	37	85
	Estimated Household Members	51.7	285.9	337.6
	Estimated Native Population	--	--	337.6

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	Lion	Seal		Lion	Seal
Used	0.0%	15.4%	Total Number Harvested	0.0	24.8
Hunted	0.0%	6.5%	Total Number Struck and Lost	0.0	6.5
Harvested	0.0%	3.3%	Total Number Taken	0.0	31.2
Received	0.0%	13.2%			
Gave Away	0.0%	5.4%	Number Harvested Per Capita	0.00	0.09

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

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	7	7	3	3	3	0	0	0	0	0	23
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Total Take	0	0	0	7	7	3	3	3	0	0	0	0	6	29
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	7.5	7.5	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	24.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.5
Total Take	0.0	0.0	0.0	7.5	7.5	3.2	3.2	3.2	0.0	0.0	0.0	0.0	6.5	31.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	7.5	7.5	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	24.8
Struck & Lost	0.0	0.0	0.0	2.0	2.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	6.5
Total Take	0.0	0.0	0.0	9.5	9.5	4.1	4.1	4.1	0.0	0.0	0.0	0.0	0.0	31.2
Total Take (%)	0.0%	0.0%	0.0%	30.4%	30.4%	13.0%	13.0%	13.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	9.5	19.0	23.1	27.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
Cum. Take (%)	0.0%	0.0%	0.0%	30.4%	60.9%	73.9%	87.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

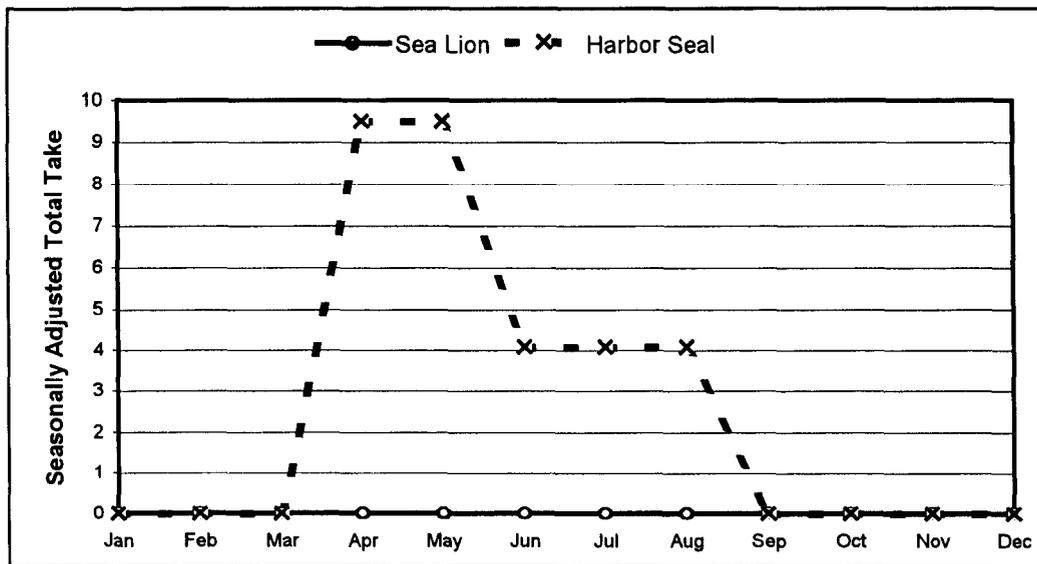
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Naknek Traditional Council, 1997.

**Table 53. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Naknek, 1997**

**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	—	13	56.5%	14.0	56.5%
Adult Female	0	—	0.0	—	10	43.5%	10.8	43.5%
Adult Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%
Juvenile Male	0	—	0.0	—	0	0.0%	0.0	0.0%
Juvenile Female	0	—	0.0	—	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%
Pup Male	0	—	0.0	—	0	0.0%	0.0	0.0%
Pup Female	0	—	0.0	—	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%
Male Unknown Age	0	—	0.0	—	0	0.0%	0.0	0.0%
Female Unknown Age	0	—	0.0	—	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	—	0.0	—	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>—</b>	<b>0.0</b>	<b>—</b>	<b>23</b>	<b>100.0%</b>	<b>24.8</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	26.6	7.0	33.6
1993	0.0	0.0	0.0	1993	2.7	0.0	2.7
1994	0.0	0.0	0.0	1994	21.4	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

SOURCE: Alaska Department 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, 1997.

**Table 54. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Pilot Point, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	29
	Surveyed Households	28
	Sampling Fraction	96.6%
	Sample Household Members	98
	Estimated Household Members	101.5
	Estimated Native Population	101.5

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	0.0%	3.6%	Total Number Harvested	0.0	0.0
Hunted	0.0%	0.0%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	0.0%	Total Number Taken	0.0	0.0
Received	0.0%	3.6%			
Gave Away	0.0%	0.0%	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	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	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	
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	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 (%)	—	—	—	—	—	—	—	—	—	—	—	—		—

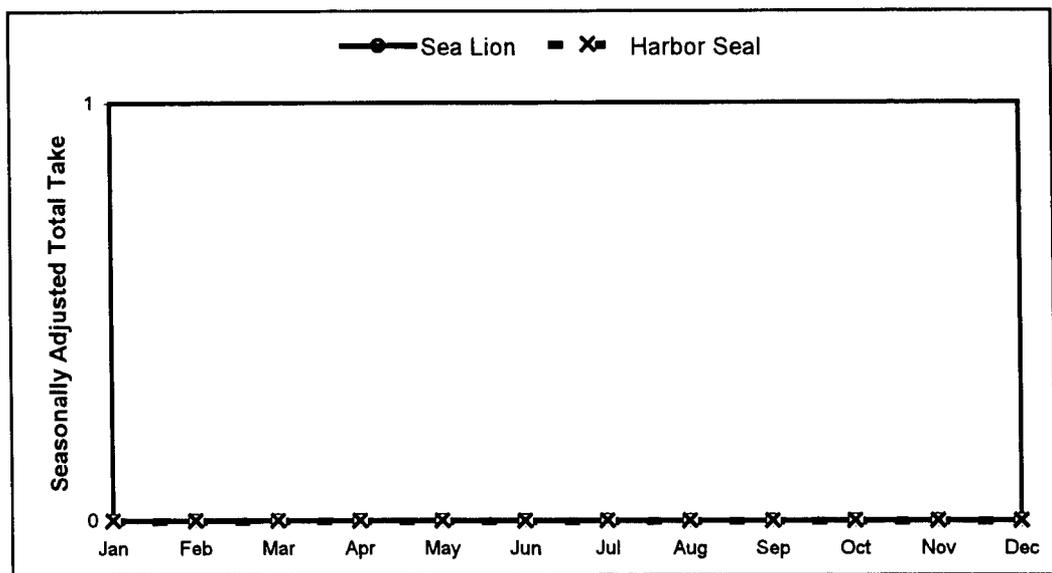
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Pilot Point Traditional Council, 1997.

Table 54. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Pilot Point, 1997

HARVEST BY AGE AND SEX

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

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

SOURCE: Alaska Department 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, 1997.

**Table 55. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Port Heiden, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	33
	Surveyed Households	31
	Sampling Fraction	93.9%
	Sample Household Members	97
	Estimated Household Members	103.3
	Estimated Native Population	103.3

**HARVEST AND USE INFORMATION**

*Percentage of Native Households:*

	Sea Lion	Harbor Seal
Used	0.0%	83.9%
Hunted	0.0%	67.7%
Harvested	0.0%	64.5%
Received	0.0%	41.9%
Gave Away	0.0%	54.8%

*Estimated Community Harvest and Take (Expanded):*

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	69.2
Total Number Struck and Lost	0.0	50.0
Total Number Taken	0.0	119.2
Number Harvested Per Capita	0.00	0.67

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

<b>HARBOR SEAL HARVEST BY MONTH</b>												Unknown	Total	
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	10	10	5	12	14	6	3	0	5	65
Struck & Lost	0	0	0	0	3	7	8	12	9	0	0	0	8	47
Total Take	0	0	0	0	13	17	13	24	23	6	3	0	13	112
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	10.6	10.6	5.3	12.8	14.9	6.4	3.2	0.0	5.3	69.2
Struck & Lost	0.0	0.0	0.0	0.0	3.2	7.5	8.5	12.8	9.6	0.0	0.0	0.0	8.5	50.0
Total Take	0.0	0.0	0.0	0.0	13.8	18.1	13.8	25.5	24.5	6.4	3.2	0.0	13.8	119.2
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	0.0	11.5	11.5	5.8	13.8	16.1	6.9	3.5	0.0		69.2
Struck & Lost	0.0	0.0	0.0	0.0	3.8	9.0	10.3	15.4	11.5	0.0	0.0	0.0		50.0
Total Take	0.0	0.0	0.0	0.0	15.4	20.5	16.0	29.2	27.7	6.9	3.5	0.0		119.2
Total Take (%)	0.0%	0.0%	0.0%	0.0%	12.9%	17.2%	13.4%	24.5%	23.2%	5.8%	2.9%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	15.4	35.9	51.9	81.2	108.8	115.8	119.2	119.2		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	12.9%	30.1%	43.5%	68.1%	91.3%	97.1%	100.0%	100.0%		

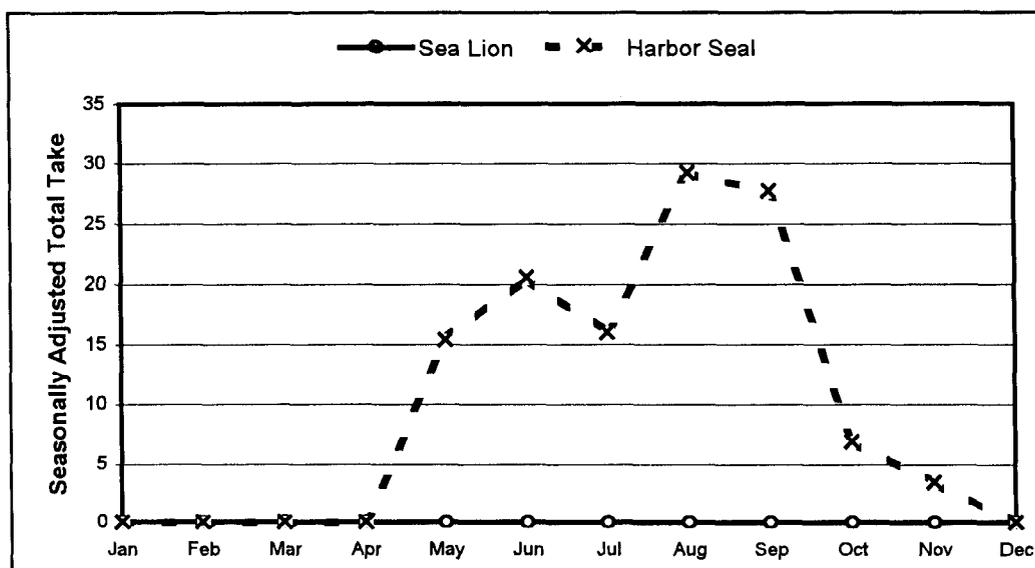
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the Port Heiden Traditional Council, 1997.

**Table 55. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Heiden, 1997**

*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	4.6%	3.2	4.6%
Adult Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	--	0.0	--	31	47.7%	33.0	47.7%
Juvenile Male	0	--	0.0	--	1	1.5%	1.1	1.5%
Juvenile Female	0	--	0.0	--	1	1.5%	1.1	1.5%
Juvenile Unknown Sex	0	--	0.0	--	2	3.1%	2.1	3.1%
Pup Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	1	1.5%	1.1	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	--	26	40.0%	27.7	40.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>65</b>	<b>100.0%</b>	<b>69.2</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	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

SOURCE: Alaska Department 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, 1997.

**Table 56. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: South Naknek, 1997**

**SAMPLING DESIGN:**

<b>CENSUS</b>	Total Native Households	38
	Surveyed Households	31
	Sampling Fraction	81.6%
	Sample Household Members	104
	Estimated Household Members	127.5
	Estimated Native Population	127.5

**HARVEST AND USE INFORMATION**

*Percentage of Native Households:*

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	22.6%
Hunted	0.0%	6.5%
Harvested	0.0%	3.2%
Received	0.0%	19.4%
Gave Away	0.0%	12.9%

*Estimated Community Harvest and Take (Expanded):*

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	2.5
Total Number Struck and Lost	0.0	9.8
Total Number Taken	0.0	12.3
Number Harvested Per Capita	0.00	0.02

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

<b>HARBOR SEAL HARVEST BY MONTH</b>													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Struck & Lost	0	0	0	0	0	6	0	2	0	0	0	0	0	8
Total Take	0	0	0	0	2	6	0	2	0	0	0	0	0	10
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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	2.5
Struck & Lost	0.0	0.0	0.0	0.0	0.0	7.4	0.0	2.5	0.0	0.0	0.0	0.0	0.0	9.8
Total Take	0.0	0.0	0.0	0.0	2.5	7.4	0.0	2.5	0.0	0.0	0.0	0.0	0.0	12.3
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
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	2.5
Struck & Lost	0.0	0.0	0.0	0.0	0.0	7.4	0.0	2.5	0.0	0.0	0.0	0.0	0.0	9.8
Total Take	0.0	0.0	0.0	0.0	2.5	7.4	0.0	2.5	0.0	0.0	0.0	0.0	0.0	12.3
Total Take (%)	0.0%	0.0%	0.0%	0.0%	20.0%	60.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	2.5	9.8	9.8	12.3	12.3	12.3	12.3	12.3	12.3	12.3
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	20.0%	80.0%	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

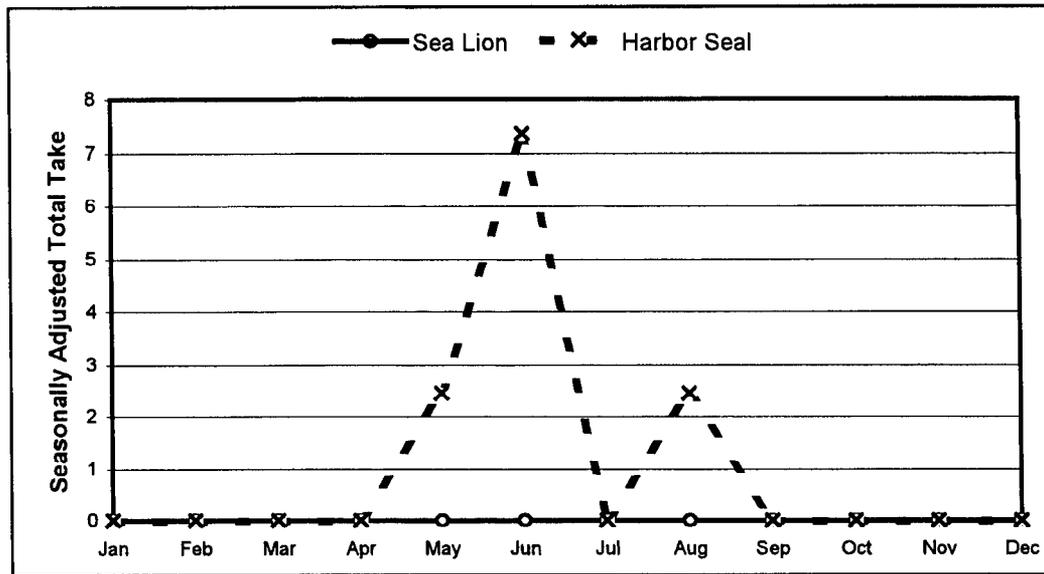
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska, with assistance from the South Naknek Traditional Council, 1997.

**Table 56. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: South Naknek, 1997**

*HARVEST BY AGE AND SEX*

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Adult Female	0	--	0.0	--	1	50.0%	1.2	50.0%
Adult Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Male	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Male	0	--	0.0	--	1	50.0%	1.2	50.0%
Pup Female	0	--	0.0	--	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	--	0.0	--	0	0.0%	0.0	0.0%
Male Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Female Unknown Age	0	--	0.0	--	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	--	0.0	--	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>--</b>	<b>0.0</b>	<b>--</b>	<b>2</b>	<b>100.0%</b>	<b>2.5</b>	<b>100.0%</b>

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



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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

SOURCE: Alaska Department 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, 1997.

**Table 57. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Aleknagik, 1997**

<b>SAMPLING DESIGN:</b>		<u>Total</u>
<b>CENSUS</b>	Total Native Households	48
	Surveyed Households	40
	Sampling Fraction	83.3%
	Sample Household Members	155
	Estimated Household Members	186.0
	Estimated Native Population	186.0

**HARVEST AND USE INFORMATION**

<b>Percentage of Native Households:</b>				<b>Estimated Community Harvest and Take (Expanded):</b>		
	Sea Lion	Harbor Seal and Spotted Seal		Sea Lion	Harbor Seal	Spotted Seal
Used	0.0%	57.5%	Total Number Harvested	0.0	1.2	10.8
Hunted	0.0%	25.0%	Total Number Struck and Lost	0.0	0.0	0.0
Harvested	0.0%	12.5%	Total Number Taken	0.0	1.2	10.8
Received	0.0%	45.0%				
Gave Away	0.0%	10.0%	Number Harvested Per Capita	0.00	0.01	0.06

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

<b>HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH</b>														
	Spotted Seal					Harbor Seal				Spotted Seal			Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	3	6	0	0	1	0	0	0	0	0	10
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	3	6	0	0	1	0	0	0	0	0	10
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	3.6	7.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	12.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	3.6	7.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	12.0
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	3.6	7.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	12.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	3.6	7.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	12.0
Total Take (%)	0.0%	0.0%	0.0%	30.0%	60.0%	0.0%	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	3.6	10.8	10.8	10.8	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Cum. Take (%)	0.0%	0.0%	0.0%	30.0%	90.0%	90.0%	90.0%	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 Aleknagik Tribal Council, 1997.

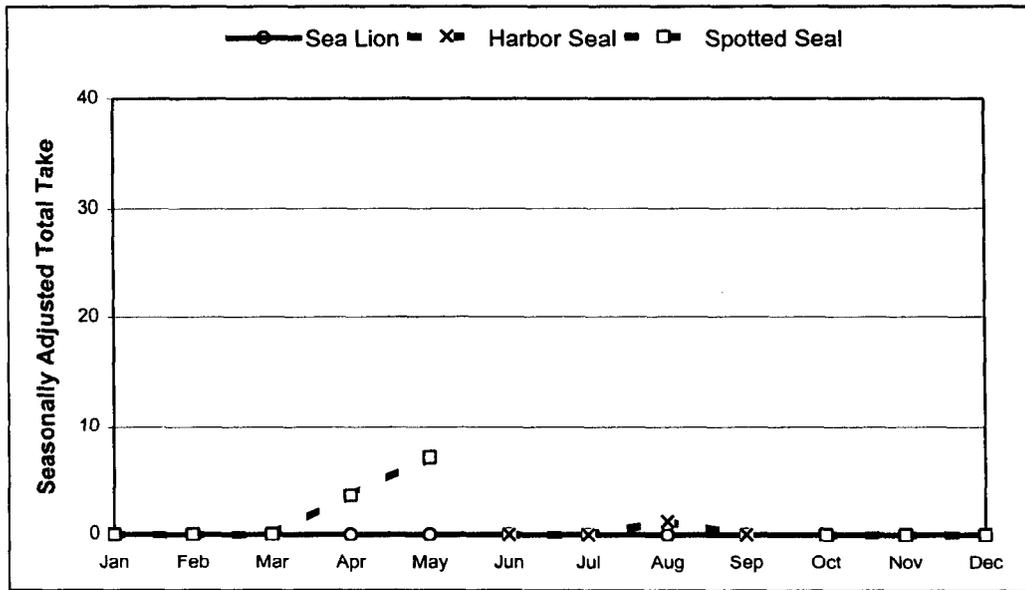
**Table 57. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Aleknagik, 1997**

**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%	3	33.3%	3.6	33.3%
Adult Female	0	—	0.0	—	0	0.0%	0.0	0.0%	1	11.1%	1.2	11.1%
Adult Unknown Sex	0	—	0.0	—	1	100.0%	1.2	100.0%	1	11.1%	1.2	11.1%
Juvenile Male	0	—	0.0	—	0	0.0%	0.0	0.0%	3	33.3%	3.6	33.3%
Juvenile Female	0	—	0.0	—	0	0.0%	0.0	0.0%	1	11.1%	1.2	11.1%
Juvenile Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>—</b>	<b>0.0</b>	<b>—</b>	<b>1</b>	<b>100.0%</b>	<b>1.2</b>	<b>100.0%</b>	<b>9</b>	<b>100.0%</b>	<b>10.8</b>	<b>100.0%</b>

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	0.0	3.6	3.6	1992	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

SOURCE: Alaska Department 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, 1997.

**Table 58. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Clark's Point, 1997**

<i>SAMPLING DESIGN:</i>		<u>Total</u>
<i>CENSUS</i>	Total Native Households	20
	Surveyed Households	16
	Sampling Fraction	80.0%
	Sample Household Members	45
	Estimated Household Members	56.3
	Estimated Native Population	56.3

**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%	100.0%	Total Number Harvested	0.0	1.3	3.8
Hunted	0.0%	25.0%	Total Number Struck and Lost	0.0	0.0	1.3
Harvested	0.0%	18.8%	Total Number Taken	0.0	1.3	5.0
Received	0.0%	100.0%				
Gave Away	0.0%	68.8%	Number Harvested Per Capita	0.00	0.02	0.07

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

<i>HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH</i>														Unknown	Total
	<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			
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>															
Harvest	0	0	0	1	0	0	0	1	0	2	0	0	0	0	4
Struck & Lost	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Total Take	0	0	0	1	0	0	0	1	0	3	0	0	0	0	5
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>															
Harvest	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	2.5	0.0	0.0	0.0	0.0	5.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	1.3
Total Take	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	3.8	0.0	0.0	0.0	0.0	6.3
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>															
Harvest	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	2.5	0.0	0.0	0.0	0.0	5.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	1.3
Total Take	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	3.8	0.0	0.0	0.0	0.0	6.3
Total Take (%)	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	20.0%	0.0%	60.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	1.3	1.3	1.3	1.3	2.5	2.5	6.3	6.3	6.3	6.3	6.3	6.3
Cum. Take (%)	0.0%	0.0%	0.0%	20.0%	20.0%	20.0%	20.0%	40.0%	40.0%	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, 1997.

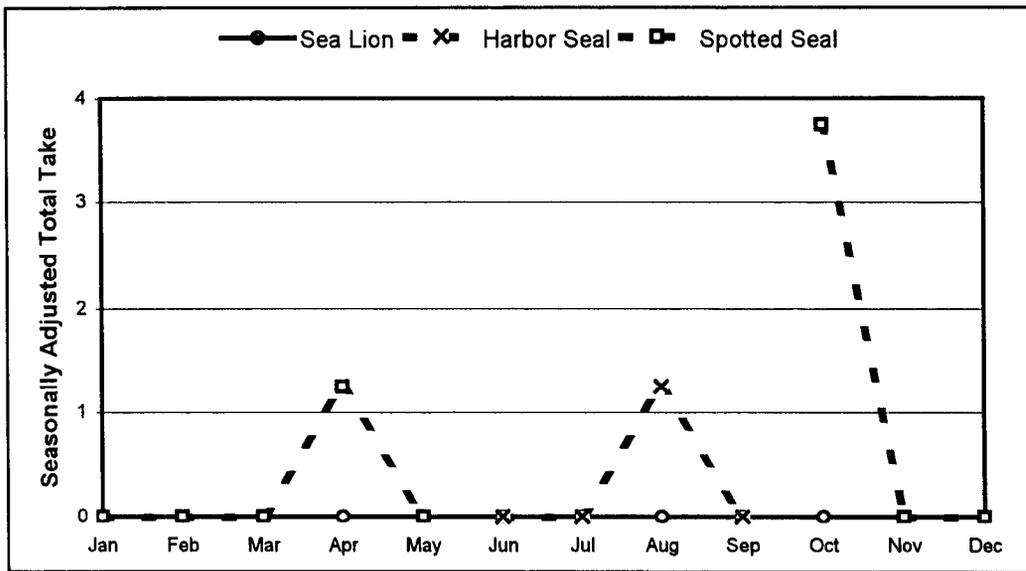
**Table 58. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Clark's Point, 19**

**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%	1	33.3%	1.3	33.3%
Adult Female	0	—	0.0	—	0	0.0%	0.0	0.0%	1	33.3%	1.3	33.3%
Adult Unknown Sex	0	—	0.0	—	1	100.0%	1.3	100.0%	1	33.3%	1.3	33.3%
Juvenile Male	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>—</b>	<b>0.0</b>	<b>—</b>	<b>1</b>	<b>100.0%</b>	<b>1.3</b>	<b>100.0%</b>	<b>3</b>	<b>100.0%</b>	<b>3.8</b>	<b>100.0%</b>

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	0.0	0.0	0.0	1992	10.6	8.5	19.1
1993	0.0	0.0	0.0	1993	0.0	0.0	0.0	1993	2.0	0.0	2.0
1994	0.0	0.0	0.0	1994	0.0	0.0	0.0	1994	21.5	0.0	21.5
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0	1995	10.0	5.0	15.0
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

SOURCE: Alaska Department 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, 1997.

**Table 59. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Dillingham, 1997**

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>	Total Native Households	30	410	440
	Surveyed Households	25	15	40
	Sampling Fraction	83.3%	3.7%	9.1%
	Sample Household Members	101	46	147
	Estimated Household Members	121.2	1257.3	1378.5
	Estimated Native Population	---	---	1378.5

**HARVEST AND USE INFORMATION**

<i>Percentage of Native Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>			
	<u>Sea Lion</u>	<u>Harbor Seal and Spotted Seal</u>		<u>Sea Lion</u>	<u>Harbor Seal</u>	<u>Spotted Seal</u>
Used	0.0%	67.6%	Total Number Harvested	0.0	1.2	18.0
Hunted	0.0%	2.2%	Total Number Struck and Lost	0.0	0.0	0.0
Harvested	0.0%	2.2%	Total Number Taken	0.0	1.2	18.0
Received	0.0%	66.8%				
Gave Away	0.0%	8.9%	Number Harvested Per Capita	0.00	0.00	0.01

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	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 AND SPOTTED SEAL HARVEST BY MONTH</i>														
	<u>Spotted Seal</u>					<u>Harbor Seal</u>				<u>Spotted Seal</u>			Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	0	0	2	4	9	0	0	1	0	0	0	0	0	16
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	2	4	9	0	0	1	0	0	0	0	0	16
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	2.4	4.8	10.8	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	19.2
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	2.4	4.8	10.8	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	19.2
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	0.0	0.0	2.4	4.8	10.8	0.0	0.0	1.2	0.0	0.0	0.0	0.0		19.2
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	2.4	4.8	10.8	0.0	0.0	1.2	0.0	0.0	0.0	0.0		19.2
Total Take (%)	0.0%	0.0%	12.5%	25.0%	56.3%	0.0%	0.0%	6.3%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	2.4	7.2	18.0	18.0	18.0	19.2	19.2	19.2	19.2	19.2		
Cum. Take (%)	0.0%	0.0%	12.5%	37.5%	93.8%	93.8%	93.8%	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, 1997.

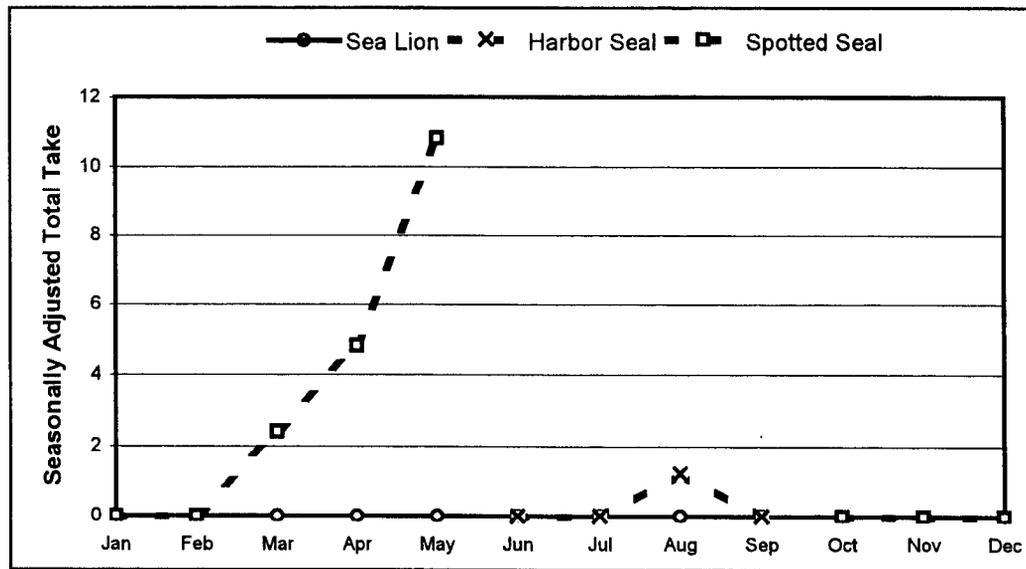
**Table 59. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Dillingham, 1997**

*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%	2	13.3%	2.4	13.3%
Adult Female	0	—	0.0	—	0	0.0%	0.0	0.0%	2	13.3%	2.4	13.3%
Adult Unknown Sex	0	—	0.0	—	1	100.0%	1.2	100.0%	6	40.0%	7.2	40.0%
Juvenile Male	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%	2	13.3%	2.4	13.3%
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%	3	20.0%	3.6	20.0%
<b>Total</b>	<b>0</b>	<b>—</b>	<b>0.0</b>	<b>—</b>	<b>1</b>	<b>100.0%</b>	<b>1.2</b>	<b>100.0%</b>	<b>15</b>	<b>100.0%</b>	<b>18.0</b>	<b>100.0%</b>

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/ 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	0.0	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

SOURCE: Alaska Department 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, 1997.

**Table 60. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Manokotak, 1997**

SAMPLING DESIGN:		Active	Other	Total
TWO-STRATA	Total Native Households	32	40	72
	Surveyed Households	28	39	67
	Sampling Fraction	87.5%	97.5%	93.1%
	Sample Household Members	152	187	339
	Estimated Household Members	173.7	191.8	365.5
	Estimated Native Population	--	--	365.5

**HARVEST AND USE INFORMATION**

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):			
	Sea Lion	Harbor Seal and Spotted Seal		Sea Lion	Harbor Seal	Spotted Seal
Used	0.0%	62.8%	Total Number Harvested	0.0	0.0	19.7
Hunted	0.0%	17.9%	Total Number Struck and Lost	0.0	0.0	7.2
Harvested	0.0%	11.7%	Total Number Taken	0.0	0.0	26.9
Received	0.0%	55.5%				
Gave Away	0.0%	22.3%	Number Harvested Per Capita	0.00	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		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	7	11	1	0	0	0	0	0	0	0	0	19
Struck & Lost	0	0	3	4	0	0	0	0	0	0	0	0	0	7
Total Take	0	0	10	15	1	0	0	0	0	0	0	0	0	26
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	7.3	11.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.7
Struck & Lost	0.0	0.0	3.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
Total Take	0.0	0.0	10.4	15.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	7.3	11.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		19.7
Struck & Lost	0.0	0.0	3.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		7.2
Total Take	0.0	0.0	10.4	15.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		26.9
Total Take (%)	0.0%	0.0%	38.6%	57.6%	3.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	10.4	25.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9		26.9
Cum. Take (%)	0.0%	0.0%	38.6%	96.2%	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 Manokotak Traditional Council, 1997.

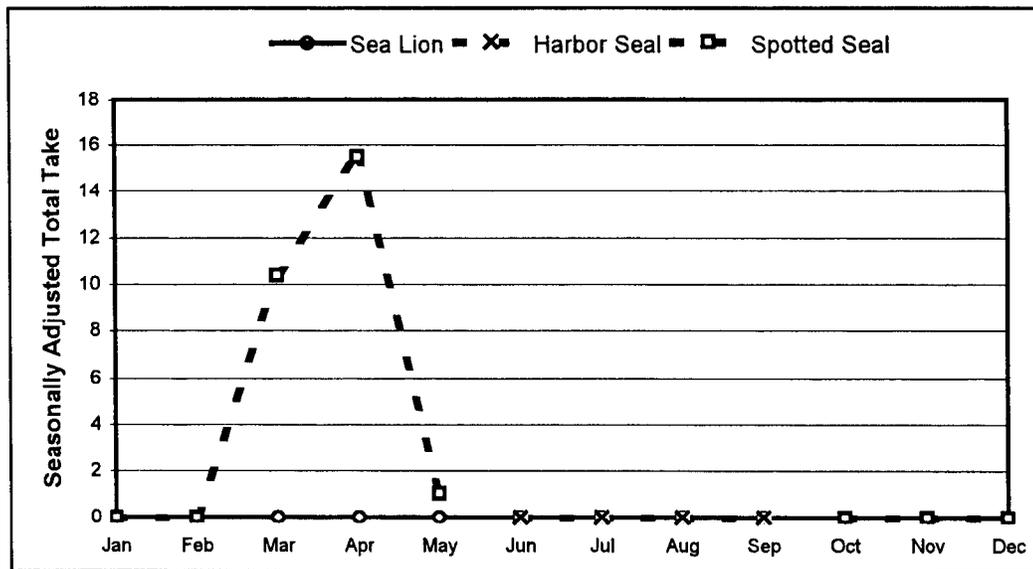
**Table 60. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Manokotak, 1997**

*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	10.5%	2.2	11.0%
Adult Female	0	—	0.0	—	0	—	0.0	—	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	—	0.0	—	0	—	0.0	—	8	42.1%	8.3	42.2%
Juvenile Male	0	—	0.0	—	0	—	0.0	—	3	15.8%	3.1	15.6%
Juvenile Female	0	—	0.0	—	0	—	0.0	—	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	—	0.0	—	0	—	0.0	—	5	26.3%	5.1	26.0%
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	5.3%	1.0	5.2%
<b>Total</b>	<b>0</b>	<b>—</b>	<b>0.0</b>	<b>—</b>	<b>0</b>	<b>—</b>	<b>0.0</b>	<b>—</b>	<b>19</b>	<b>100.0%</b>	<b>19.7</b>	<b>100.0%</b>

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	3.9	0.0	3.9	1992	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

SOURCE: Alaska Department 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, 1997.

**Table 61. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Togiak, 1997**

SAMPLING DESIGN:		Active	Other	Total
TWO-STRATA	Total Native Households	66	38	104
	Surveyed Households	37	12	49
	Sampling Fraction	56.1%	31.6%	47.1%
	Sample Household Members	169	56	225
	Estimated Household Members	301.5	177.3	478.8
	Estimated Native Population	---	---	478.8

**HARVEST AND USE INFORMATION**

Percentage of Native Households:				Estimated Community Harvest and Take (Expanded):		
	Sea Lion	Harbor Seal and Spotted Seal		Sea Lion	Harbor Seal	Spotted Seal
Used	3.4%	74.7%	Total Number Harvested	3.6	6.7	79.2
Hunted	3.4%	51.6%	Total Number Struck and Lost	0.0	0.0	7.1
Harvested	3.4%	37.0%	Total Number Taken	3.6	6.7	86.4
Received	0.0%	50.6%	Number Harvested Per Capita	0.02	0.04	0.45
Gave Away	3.4%	30.1%				

SEA LION HARVEST BY MONTH														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	1	1	0	0	0	0	0	0	0	0	2
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	1	1	0	0	0	0	0	0	0	0	2
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	1.8	1.8	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%	50.0%	50.0%	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	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	
Cum. Take (%)	0.0%	0.0%	0.0%	50.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

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		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	3	0	5	13	3	0	0	2	1	5	10	0	0	42
Struck & Lost	0	0	0	0	0	0	0	0	0	2	2	0	0	4
Total Take	3	0	5	13	3	0	0	2	1	7	12	0	0	46
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	9.5	0.0	8.9	28.7	5.4	0.0	0.0	5.0	1.8	8.9	17.8	0.0	0.0	86.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6	0.0	0.0	7.1
Total Take	9.5	0.0	8.9	28.7	5.4	0.0	0.0	5.0	1.8	12.5	21.4	0.0	0.0	93.1
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	9.5	0.0	8.9	28.7	5.4	0.0	0.0	5.0	1.8	8.9	17.8	0.0	0.0	86.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6	0.0	0.0	7.1
Total Take	9.5	0.0	8.9	28.7	5.4	0.0	0.0	5.0	1.8	12.5	21.4	0.0	0.0	93.1
Total Take (%)	10.2%	0.0%	9.6%	30.8%	5.7%	0.0%	0.0%	5.3%	1.9%	13.4%	23.0%	0.0%	0.0%	100.0%
Cum. Take	9.5	9.5	18.4	47.1	52.5	52.5	52.5	57.4	59.2	71.7	93.1	93.1	93.1	
Cum. Take (%)	10.2%	10.2%	19.8%	50.6%	56.4%	56.4%	56.4%	61.7%	63.6%	77.0%	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 Togiak Traditional Council, 1997.

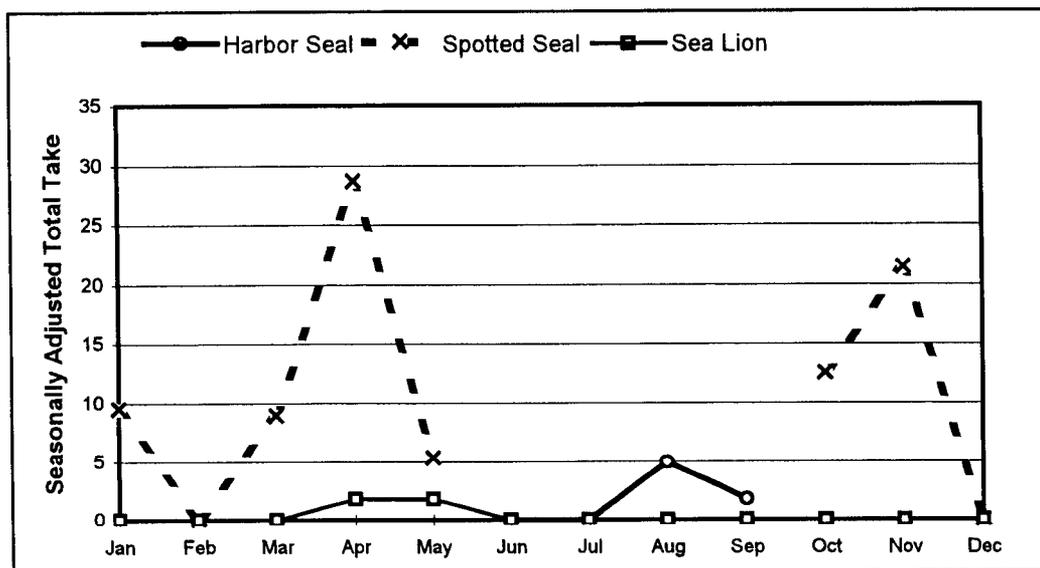
**Table 61. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Togiak, 1997**

*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	1	50.0%	1.8	50.0%	1	33.3%	1.8	26.5%	15	38.5%	32.3	40.7%
Adult Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	5	12.8%	13.1	16.5%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	7	17.9%	12.5	15.8%
Juvenile Male	1	50.0%	1.8	50.0%	1	33.3%	3.2	47.0%	3	7.7%	5.4	6.8%
Juvenile Female	0	0.0%	0.0	0.0%	1	33.3%	1.8	26.5%	2	5.1%	3.6	4.5%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	6	15.4%	10.7	13.5%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	1	2.6%	1.8	2.3%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	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%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>2</b>	<b>100.0%</b>	<b>3.6</b>	<b>100.0%</b>	<b>3</b>	<b>100.0%</b>	<b>6.7</b>	<b>100.0%</b>	<b>39</b>	<b>100.0%</b>	<b>79.2</b>	<b>100.0%</b>

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	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	21.5	0.0	21.5
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

SOURCE: Alaska Department 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, 1997.

**Table 62. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Twin Hills, 1997**

<b>SAMPLING DESIGN:</b>		<u>Total</u>
<b>CHAIN REFERRAL</b>	Total Referred Households	20
	Surveyed Households	19
	Sampling Fraction	95.0%
	Sample Household Members	49
	Estimated Household Members	51.6
	Estimated Native Population	61.0

**HARVEST AND USE INFORMATION**

<b>Percentage of Sample Households:</b>			<b>Estimated Community Harvest and Take (Expanded):</b>			
	Sea Lion	Harbor Seal and Spotted Seal		Sea Lion	Harbor Seal	Spotted Seal
Used	0.0%	100.0%	Total Number Harvested	0.0	8.4	2.1
Hunted	0.0%	31.6%	Total Number Struck and Lost	0.0	2.1	1.1
Harvested	0.0%	26.3%	Total Number Taken	0.0	10.5	3.2
Received	0.0%	100.0%				
Gave Away	0.0%	42.1%	Number Harvested Per Capita	0.00	0.14	0.03

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

<b>HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH</b>														
	Spotted Seal					Harbor Seal				Spotted Seal			Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
<b>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</b>														
Harvest	0	0	0	2	0	0	0	2	6	0	0	0	0	10
Struck & Lost	0	0	0	1	0	0	0	0	2	0	0	0	0	3
Total Take	0	0	0	3	0	0	0	2	8	0	0	0	0	13
<b>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	2.1	0.0	0.0	0.0	2.1	6.3	0.0	0.0	0.0	0.0	10.5
Struck & Lost	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	3.2
Total Take	0.0	0.0	0.0	3.2	0.0	0.0	0.0	2.1	8.4	0.0	0.0	0.0	0.0	13.7
<b>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</b>														
Harvest	0.0	0.0	0.0	2.1	0.0	0.0	0.0	2.1	6.3	0.0	0.0	0.0		10.5
Struck & Lost	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0		3.2
Total Take	0.0	0.0	0.0	3.2	0.0	0.0	0.0	2.1	8.4	0.0	0.0	0.0		13.7
Total Take (%)	0.0%	0.0%	0.0%	23.1%	0.0%	0.0%	0.0%	15.4%	61.5%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	3.2	3.2	3.2	3.2	5.3	13.7	13.7	13.7	13.7		
Cum. Take (%)	0.0%	0.0%	0.0%	23.1%	23.1%	23.1%	23.1%	38.5%	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 community and the Twin Hills Traditional Council, 1997.

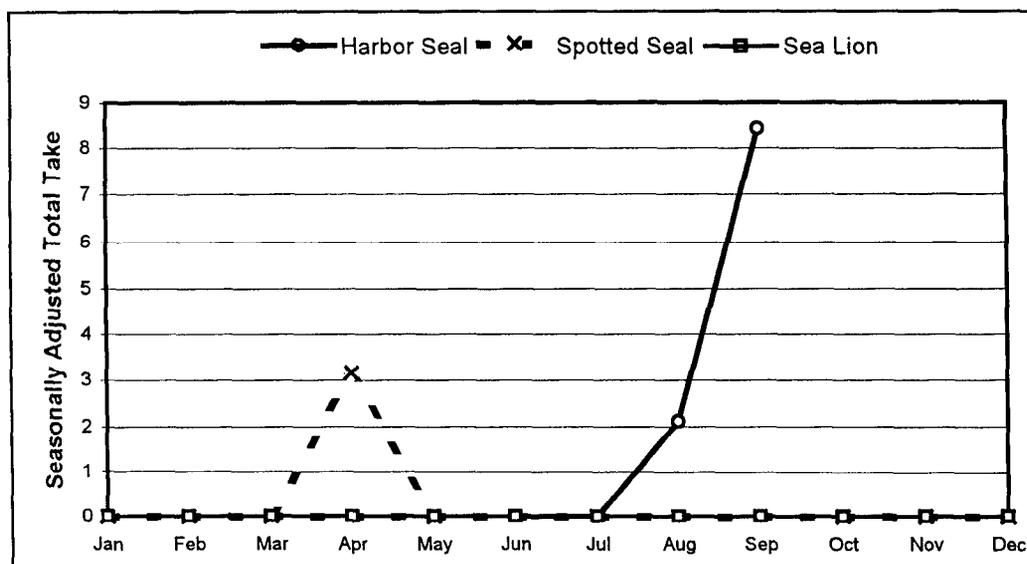
**Table 62. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Twin Hills, 1997**

**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	25.0%	2.1	25.0%	1	50.0%	1.1	50.0%
Adult Female	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	0	—	0.0	—	1	12.5%	1.1	12.5%	1	50.0%	1.1	50.0%
Juvenile Female	0	—	0.0	—	1	12.5%	1.1	12.5%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	—	0.0	—	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
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	—	4	50.0%	4.2	50.0%	0	0.0%	0.0	0.0%
<b>Total</b>	<b>0</b>	<b>—</b>	<b>0.0</b>	<b>—</b>	<b>8</b>	<b>100.0%</b>	<b>8.4</b>	<b>100.0%</b>	<b>2</b>	<b>100.0%</b>	<b>2.1</b>	<b>100.0%</b>

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	---	---	---	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

SOURCE: Alaska Department 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 community and the Twin Hills Traditional Council, 1997.

