

Technical Paper No. 339

The Subsistence Harvest of Harbor Seals and Sea Lions by Alaska Natives in 2006

**Alaska Department of Fish and Game, Division of Subsistence
and
Alaska Native Harbor Seal Commission**



August 2008

**Alaska Department of Fish and Game
Division of Subsistence**

**Alaska Native Harbor Seal
Commission**

Symbols and Abbreviations

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Weights and measures (metric)

centimeter	cm
deciliter	dL
gram	g
hectare	ha
kilogram	kg
kilometer	km
liter	L
meter	m
milliliter	mL
millimeter	mm

Weights and measures (English)

cubic feet per second	ft ³ /s
foot	ft
gallon	gal
inch	in
mile	mi
nautical mile	nmi
ounce	oz
pound	lb
quart	qt
yard	yd

Time and temperature

day	d
degrees Celsius	°C
degrees Fahrenheit	°F
degrees kelvin	K
hour	h
minute	min
second	s

Physics and chemistry

all atomic symbols

alternating current	AC
ampere	A
calorie	cal
direct current	DC
hertz	Hz
horsepower	hp
hydrogen ion activity (negative log of)	pH
parts per million	ppm
parts per thousand	ppt, ‰
volts	V
watts	W

General

<i>all commonly-accepted abbreviations</i>	
<i>e.g., Mr., Mrs., AM, PM, etc.</i>	
<i>all commonly-accepted professional titles e.g., Dr., Ph.D., R.N., etc.</i>	
Alaska Administrative Code	AAC
at	@
compass directions:	
east	E
north	N
south	S
west	W
copyright	©
corporate suffixes:	
Company	Co.
Corporation	Corp.
Incorporated	Inc.
Limited	Ltd.
District of Columbia	D.C.
et alii (and others)	et al.
et cetera (and so forth)	etc.
exempli gratia (for example)	e.g.
Federal Information Code	FIC
id est (that is)	i.e.
latitude or longitude	lat. or long.
monetary symbols (U.S.)	\$, ¢
months (tables and figures):	first three letters (Jan.,...,Dec)
registered trademark	®
trademark	™
United States (adjective)	U.S.
United States of America (noun)	USA
U.S.C.	United States Code
U.S. state	use two-letter abbreviations (e.g., AK, WA)

Measures (fisheries)

fork length	FL
mid-eye-to-fork	MEF
mid-eye-to-tail-fork	METF
standard length	SL
total length	TL

Mathematics, statistics

all standard mathematical signs, symbols and abbreviations

alternate hypothesis	H _A
base of natural logarithm	e
catch per unit effort	CPUE
coefficient of variation	CV
common test statistics	(F, t, χ^2 , etc.)
confidence interval	CI
correlation coefficient (multiple)	R
correlation coefficient (simple)	r
covariance	cov
degree (angular)	°
degrees of freedom	df
expected value	E
greater than	>
greater than or equal to	≥
harvest per unit effort	HPUE
less than	<
less than or equal to	≤
logarithm (natural)	ln
logarithm (base 10)	log
logarithm (specify base)	log ₂ , etc.
minute (angular)	'
not significant	NS
null hypothesis	H ₀
percent	%
probability	P
probability of a type I error (rejection of the null hypothesis when true)	α
probability of a type II error (acceptance of the null hypothesis when false)	β
second (angular)	"
standard deviation	SD
standard error	SE
variance	
population	Var
sample	var

The Subsistence Harvest of Harbor Seals and Sea Lions by Alaska Natives in 2006

Technical Paper No. 339

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**Final Report for Year Fourteen
The Subsistence Harvest of Sea Lions and Harbor Seals by Alaska Natives,
Harvest Assessment Program, 2006 (Award Number NA05NMF4391111)
Prepared for the National Marine Fisheries Service by the Alaska Native Harbor Seal Commission
and the Alaska Department of Fish and Game, Division of Subsistence**

**Alaska Department of Fish and Game
Division of Subsistence
Juneau, Alaska
August 2008**

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ABSTRACT

This report describes the subsistence takes of harbor seals *Phoca vitulina* and Steller sea lions *Eumetopias jubatus* by Alaska Natives in 2006, including quantity, seasons, geographic distribution, and age and sex of the harvest. Information is summarized at the state, regional, and community levels and is compared with annual takes since 1992. The research was conducted by the Alaska Native Harbor Seal Commission and the Alaska Department of Fish and Game Division of Subsistence in cooperation with the Aleut Marine Mammal Commission, the Bristol Bay Native Association, and the Southeast Alaska Intertribal Fish and Wildlife Commission, under contract with the National Marine Fisheries Service. Information is available for 63 coastal communities, based on interviews with 1,277 households in 62 communities in this study, and a separate in-season monitoring program for sea lions by the Aleut Community of St. Paul Island. Local researchers conducted most of the household interviews as part of regional research networks. The project received generous support from leaders of a number of Native governments and associations.

During 2006, the estimated subsistence take of harbor seals by Alaska Natives was 1,644 seals, with a 95% confidence range of between 1,250 and 2,348 seals. Of the take, 13.5% (221 seals) were struck and lost and 86.5% (1,423 seals) were harvested. The 2006 take of harbor seals came from the following stocks: Southeast Alaska stock (708 seals), Gulf of Alaska stock (848 seals), and Bering Sea stock (88 seals). Harbor seals were taken in 51 of 63 surveyed communities. Hunters reported taking males over females by 3.3 to one and adults (78.0%) over juveniles (19.5%) or pups (2.5%). The 2006 take of harbor seals (1,644 seals) was the lowest recorded since 1992: 2,854 (1992), 2,736 (1993), 2,621 (1994), 2,742 (1995), 2,741 (1996), 2,546 (1997), 2,597 (1998), 2,224 (2000), 2,031 (2001), 1,834 (2002), 2,030 (2003), 1,822 (2004), and 1,696 (2005). Declining takes of harbor seals are associated with fewer seal hunters, particularly in the Southeast Region.

During 2006, the estimated subsistence take of sea lions by Alaska Natives was 186 sea lions, with a 95% confidence range of between 125 and 289 sea lions. Of the take, 26.5% (49 sea lions) were struck and lost and 73.5% (137 sea lions) were harvested. Sea lions were taken in 15 of 63 surveyed communities. Hunters reported taking males over females by about 5.2 to one and adults (63.7%) over juveniles (36.3%) and pups (0.0%). Sea lion takes declined sharply from 1992 to 1995, with takes leveling off between 1996 and 2006: 549 (1992), 487 (1993), 416 (1994), 339 (1995), 186 (1996), 164 (1997), 178 (1998), 171 (2000), 198 (2001), 185 (2002), 212 (2003), 216 (2004), and 218 (2005). Declines in sea lion takes are associated with fewer hunters hunting sea lions, which in itself is probably linked to local sea lion scarcities.

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

The thirty-eight local researchers who conducted household interviews deserve to be recognized individually for their high level of interest and work. We look forward to working with many again in the near future as the project moves into its fifteenth year:

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Helen Johnson, Dillingham
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Lillian Elvsass, Seldovia
Keri Kompkoff, Tatitlek
Elizabeth Myas, Togiak and Twin Hills
Raymond Sensmeier, Yakutat

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INTRODUCTION

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

This report provides information on the subsistence takes of harbor seals and sea lions during 2006, 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 in each community working within regional research networks. The information for 2006 from one additional community, St. Paul, derives from an in-season harvest monitoring program conducted by the Aleut Community of St. Paul Island, as reported in Lestenkof et al. (2007).

The geographic area covered by this report was defined as the Alaska coastal waters south of Cape Newenham, including the Pribilof Islands, which corresponds with

the general distributions of harbor seals and sea lions in Alaska (Figs. 2 and 3, from Burns et al. 1985). The use of harbor seals and sea lions by Alaska Natives for food and raw materials has a long tradition in this part of Alaska, since before historic contact through to the present. The Alaska Native groups using harbor seals include the Aleut of the Aleutian Islands, the Alutiiq and Eyak of the Pacific Gulf coast, the Tlingit, Haida, and Tsimshian of the Southeast archipelago, and the Yup'ik of Southwest Alaska. More occasional use of harbor seals is made by the Dena'ina of Cook Inlet. The primary users of sea lions are the Aleut of the Aleutian and Pribilof islands and the Alutiiq of certain communities of Kodiak Island and the Gulf of Alaska. Sea lions are used more occasionally by Tlingit, Haida, Tsimshian, and Yup'ik groups. Subsistence products derived from harbor seals and sea lions by Alaska Natives include oil, meat, and skins, as described in Wolfe and Mishler (1993).

This report is organized in several sections. The "Methodology" section describes the methods used to collect information. Two sections ("The Subsistence Take of Harbor Seals in 2006," and "The Subsistence Take of Sea Lions in 2006") present information on the statewide takes of harbor seals and sea lions, summarized by community and region. In the "Discussion" section are interpretations of the 2006 survey year, including summaries of harvest patterns since 1992, derived from previous survey years. Appendix A contains a copy of the survey instrument used in household interviews with marine mammal hunters. Appendix B contains regional summaries of the subsistence takes of harbor seals and sea lions. Appendix C contains materials on the subsistence takes of harbor seals and sea lions by community.

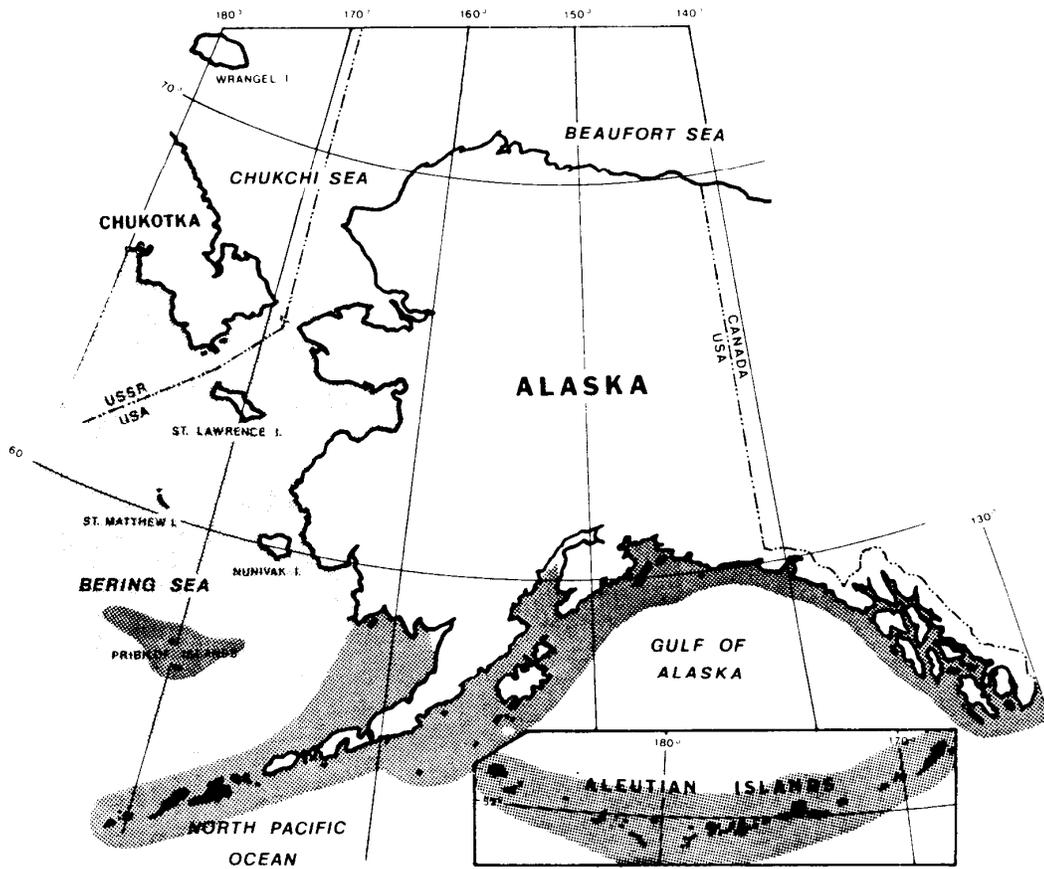


Fig. 2. General distribution of sea lions *Eumetopias jubatus* in Alaska. (Source: Burns et al. 1985).

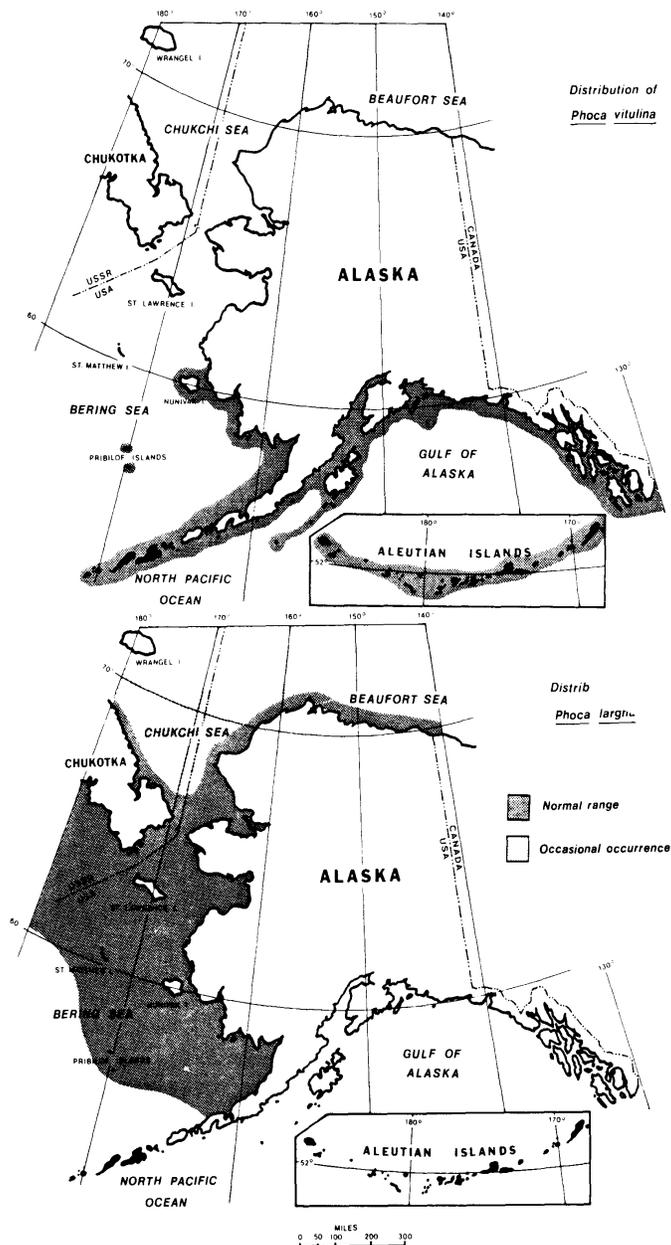


Fig. 3. [Top] General distribution of harbor seal (*Phoca vitulina*) in Alaska. [Bottom] General distribution of spotted seal (*Phoca largha*) in Alaska. (Source: Burns, Frost, and Lowry 1985)

METHODOLOGY

This report includes information on the subsistence takes of harbor seals and sea lions in 63 coastal communities (Table 2). Information for 62 communities was collected in this project through interviews with persons in 1,277 Alaska Native households. In addition, the report includes information about subsistence takes of sea lions by hunters at St. Paul collected in-season through separate projects run by the Ecosystem Conservation Office of the Aleut Community of St. Paul Island, as reported in Lestenkof et al. 2007 (for 2006), Lestenkof and Zavadil 2006 (for 2005), and Zavadil et al. 2006 (for 2000–2004). (See also Lestenkof and Zavadil 2001; Lestenkof et al. 2003; and Zavadil et al. 2003, 2004.) In the ADF&G study, respondents were asked to recall information about their household's use of harbor seals and sea lions during the previous year. The survey instrument administered in household interviews was similar to one used since 1992, developed in consultation with the Rural Alaska Community Action Program (RurAL CAP) and the Indigenous People's Council for Marine Mammals (IPCoMM) (see Appendix A). Hunters and household heads were asked to recall the numbers of harbor seals and sea lions taken by household members during each month over the past year. The survey contained questions that pertained to harvest numbers, struck and lost animals, age of animals, and sex of animals. The survey also asked whether the household used, harvested, received, or gave away harbor seals or sea lions during the last year. Interviews were conducted by 38 local researchers hired and trained as part of the project. A single survey was administered in January–March 2007 to cover the period from January to December 2006.

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

Alaska Federation of Natives (AFN), the Aleutians East Borough, Aleutian-Pribilof Islands Association, BBNA, Central Council of Tlingit and Haida Indian Tribes of Alaska, Cook Inlet Region, Inc., IPCoMM (meeting through RurAL CAP), Kodiak Area Native Association, and the North Pacific Rim (now named Chugachmiut). RurAL CAP and IPCoMM served as the formal technical oversight organizations for the first 5 years of the project, through a subcontract with ADF&G. Since 1997, formal technical oversight for the project has been provided by the ANHSC.

During 2006, the ANHSC received funding directly from NMFS and entered into a cooperative agreement with ADF&G to jointly conduct the harvest assessment project. The ANHSC provided a project coordinator and an analyst for writing the final report. The ANHSC coordinated research activities in Prince William Sound, Cook Inlet, and Kodiak Island. Research activities in other areas were coordinated by 3 regional Native organizations: the Aleut Marine Mammal Commission (AMMC) for the Aleutian Islands and western Alaska Peninsula areas; BBNA for the Bristol Bay and eastern Alaska Peninsula areas; and SAIFWC for the Southeast region. ADF&G was responsible for data analysis. Copies of this final report were provided to the Alaska Sea Otter and Steller Sea Lion Commission (TASSC) by ADF&G.

As noted above, at St. Paul sea lion take information was collected by the Aleut Community of St. Paul Island's Ecosystem Conservation Office through a contract between the Aleut Community and NMFS. The methodology and findings of that project for 2006 are described in Lestenkof et al. 2007. Data from the Ecosystem Conservation Office of the Aleut Community of St. Paul Island for other years are included in this report based on published papers (see Lestenkof and Zavadil 2006 and Zavadil et al. 2006).

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

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

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

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

As stated above, a network of locally-hired researchers supervised by the staff of the ANHSC, AMMC, BBNA, and SAIFWC was used to collect information on subsistence takes of sea lions and harbor seals during 2006. Newly-hired local researchers received in-person training from regional organization staff, whereas local researchers who successfully conducted surveys on previous rounds usually worked with regional researchers through telephone, e-mail, fax, and the mail. Local researchers performed such tasks as updating community lists of households and hunters, implementing household sampling regimes, administering household surveys

Table 2
Sampling Methodology By Community
Harbor Seal and Sea Lion Surveys, 2006

<u>Region and Community</u>	2000 U.S. Census <u>Estimated Native Population</u>	<u>Type of Design</u>	Identified Household <u>Universe</u> ¹	<u>Surveyed Households</u>	Percentage Households <u>Surveyed</u>
1. SOUTHEAST					
Angoon	494	Chain Referral	37	37	100.0%
Craig	432	Chain Referral	20	15	75.0%
Haines	335	Chain Referral	13	11	84.6%
Hoonah	597	Chain Referral	48	38	79.2%
** Hydaburg	342	Chain Referral	16	10	62.5%
Juneau	5,084	Chain Referral	22	16	72.7%
Kake	530	Chain Referral	35	32	91.4%
Ketchikan	1,802	Chain Referral	13	9	69.2%
Klawock	496	Chain Referral	29	25	86.2%
** Klukwan	123	Chain Referral	8	3	37.5%
Pelican	42	Chain Referral	6	5	83.3%
Petersburg	388	Chain Referral	30	30	100.0%
Saxman	302	Chain Referral	14	10	71.4%
** Sitka	2,178	Chain Referral	65	64	98.5%
** Wrangell	550	Chain Referral	10	6	60.0%
Yakutat	375	Chain Referral	45	40	88.9%
Region Total	14,070		411	351	85.4%
2. NORTH PACIFIC RIM					
Chenega Bay	67	Census	18	11	61.1%
Cordova	368	Chain Referral	9	7	77.8%
Nanwalek	165	Census	40	39	97.5%
Port Graham	151	Census	53	27	50.9%
Seldovia	66	Chain Referral	4	3	75.0%
** Seward	592	Chain Referral	13	6	46.2%
Tatitlek	91	Census	20	15	75.0%
** Valdez	410	Chain Referral	6	2	33.3%
Region Total	1,910		163	110	67.5%
3. UPPER KENAI-COOK INLET					
** Anchorage	26,995	Chain Referral	25	15	60.0%
** Homer	371	Chain Referral	13	7	53.8%
** Kenai	2120	Chain Referral	3	1	33.3%
** Tyonek	184	Chain Referral	2	2	100.0%
Region Total	29,670		43	25	58.1%
4. KODIAK ISLAND					
Akhiok	75	Census	17	15	88.2%
** Karluk	26	Census	14	13	92.9%
** Kodiak City	829	Chain Referral	17	11	64.7%
Larsen Bay	91	Census	35	19	54.3%
Old Harbor	203	Census	67	63	94.0%
Ouzinkie	197	Chain Referral	49	43	87.8%
** Port Lions	163	Chain Referral	11	3	27.3%
Region Total	1,584		210	167	79.5%

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

Table 2 (Continued)
Sampling Methodology by Community,
Harbor Seal and Sea Lion Surveys, 2006

<u>Region and Community</u>	<u>2000 U.S. Census Estimated Native Population</u>	<u>Type of Design</u>	<u>Identified Household Universe</u>	<u>Surveyed Households</u>	<u>Percentage Households Surveyed</u>
5. SOUTH ALASKA PENINSULA					
Chignik Bay	48	Census	23	16	69.6%
Chignik Lagoon	85	Census	19	16	84.2%
Chignik Lake	127	Census	25	17	68.0%
False Pass	42	Census	13	13	100.0%
Ivanof Bay	21	Census	2	2	100.0%
King Cove	379	Chain Referral	14	13	92.9%
Perryville	105	Census	31	26	83.9%
Sand Point	421	Chain Referral	15	8	53.3%
Region Total	1,228		142	111	78.2%
6. ALEUTIAN ISLANDS					
Adak	0	Chain Referral	3	3	100.0%
Akutan	117	Census	29	24	82.8%
Atka	84	Census	24	12	50.0%
Nikolski	27	Chain Referral	5	5	100.0%
Unalaska	397	Chain Referral	18	10	55.6%
Region Total	625		79	54	68.4%
7. PRIBILOF ISLANDS					
** St. George	140	Chain Referral	7	3	42.9%
* St. Paul	460	Tribal Study	N/A	N/A	N/A
Region Total	140		7	3	42.9%
8. SOUTH BRISTOL BAY					
Egegik	89	Census	27	27	100.0%
King Salmon	133	Census	21	15	71.4%
Levelock	116	Census	19	6	31.6%
Naknek	319	Two Strata	89	46	51.7%
Pilot Point	86	Census	15	5	33.3%
Port Heiden	93	Census	27	25	92.6%
South Naknek	115	Census	23	21	91.3%
Region Total	951		221	145	65.6%
9. NORTH BRISTOL BAY					
** Aleknagik	187	Census	41	34	82.9%
Clark's Point	69	Census	23	18	78.3%
Dillingham	1,503	Two Strata	76	67	88.2%
** Manokotak	378	Two Strata	78	68	87.2%
Togiak	750	Two Strata	115	108	93.9%
Twin Hills	65	Chain Referral	16	16	100.0%
Region Total	2,952		349	311	89.1%
TOTAL (Excl. Anchorage)	53,130 (26,135)		1,625 (1,600)	1,277 (1,262)	78.6% (78.9%)

* St. Paul's 2006 data from Lestenkof et al. (2007).

** Data not available for 2006. Data reported for the most recent year for which data are available.

Table 3
Sampling Methodology for Communities
With Two Strata Designs,
Harbor Seal and Sea Lion Surveys, 2006

Community	Number High Stratum Households	Sampled High Stratum Households	Percent High Stratum	Number Low Stratum Households	Sampled Low Stratum Households	Percent Low Stratum
Dillingham	22	13	59.1%	54	54	100.0%
Manokotak	32	31	96.9%	46	37	80.4%
Naknek	28	26	92.9%	61	20	32.8%
Togiak	66	63	95.5%	49	45	91.8%
Total	148	133	89.9%	210	156	74.3%

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 such tasks as obtaining formal support for the project from Native organizations, recruiting and selecting local hires, developing household sampling regimes, training and supervising local researchers, proofing survey data, and consulting local researchers to resolve data questions in preparation for data entry and analysis. Entering data into a centralized database was done by ADF&G staff.

In 2006, 38 local researchers collected information in 46 communities. New harvest information was not collected in 16 communities (Table 2) because effective local surveyors were not secured and funding constraints did not allow for additional work by regional researchers. In this report, data from the most recent survey cycle in each community were used for estimates in the 16 unsurveyed communities, as noted in Appendix C. Ivanof Bay was added as a survey community in 2006, after having no year-round households from 2003 to 2005 (during that time, its hunters were included on the Perryville household lists). As stated above, in recent years harvest information at St. Paul has been collected under a program of the Aleut Community of St. Paul Island. Harvest information for 2006 at St. Paul was taken from Lestenkof et al. (2007).

Households were selected using 3 main designs, depending upon the community: census sampling, chain referral sampling, and 2-strata random sampling.

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

For communities with census or chain referral sampling, 78.0% of identified households (988 of 1,267 households) were successfully contacted and interviewed. For communities with 2-strata designs, 89.9% of high stratum households were successfully contacted and interviewed (133 of 148 households), while 74.3% of low stratum households were interviewed (156 of 210 households) (Tables 2 and 3). These are relatively high sampling fractions for studies using survey methodologies that rely upon voluntary participation by surveyed households. Overall, the level of cooperation by households in the harvest survey was high in communities. The non-response rate was due in large part to logistical problems in contacting households, rather than refusals to participate.

In the appendices, the statistical analysis presents harvest data in 3 different Tables for each community. In the first table, the unexpanded reported take is presented for each community, representing actual animals reported killed by surveyed hunters with no fractions of animals. The second table presents the combined estimated expanded take for each stratum in the community. In this table, takes of surveyed hunters are expanded to unsurveyed hunters within the stratum, using different methods depending upon the household sampling design as described above. In this expansion, the proportions of the seasonal takes of the surveyed households are preserved, so

takes with unknown months exist in the table. The expansion treats each community as a separate sampling universe. Fractions of animals commonly result from the expansion, which are rounded to the nearest tenth. The third table presents a seasonally-adjusted expanded take: takes with unknown months are assigned to months based on the proportion of the known take. The numbers in this third table form the basis for the numbers in the report's narrative. In addition, details of the expansion for 2 strata communities are shown for harbor seal takes in Table 25 and for sea lion takes in Table 26.

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

THE SUBSISTENCE TAKE OF HARBOR SEALS IN 2006

Estimated Size of the Harbor Seal Take, 2006

The estimated size of the total take of harbor seals by Alaska Natives in 2006 is presented in Tables 4 and 5. In 2006, there were an estimated 1,644 harbor seals taken by Alaska Natives for subsistence uses (with a 95% confidence range of between 1,250 and 2,248 animals) (Table 4). Of the 2006 subsistence take, 13.5% (221 harbor seals) were struck and lost, and 86.5% (1,423 harbor seals) were harvested.

The total state estimate for harbor seals is necessarily somewhat indeterminate because of species identification problems in the Bristol Bay area. As discussed in Wolfe and Mishler (1993:61-69), in Bristol Bay there are areas with a seasonal geographic overlap of harbor seals and spotted seals *P. largha* (see Fig. 3). Local indigenous Yup'ik taxonomies categorize adults of the 2 Linnaean species as a single type (*issuriq*) in this area, and categorize pups into 2 different types. Of the total North Bristol Bay take, we classified 29 seals as *P. vitulina* and 170 seals as *P. largha*, based on ecological features of the kill (degree of association with seasonal ice) (Appendix B, Table 9). Of the animals classified as *P. largha*, 21.4% (30 animals) were reported struck and lost, and 78.6% (140 animals) were harvested (Appendix B, Table 9). In Table 4, we also assumed the entire South Bristol Bay take of 59 animals was *P. 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 2006 is 1,644 harbor seals, based on the assumptions above.

Table 4
Estimated Subsistence Takes of
Harbor Seals (*Phoca vitulina*)
By Alaska Natives, 1992 - 2006

<u>Year</u>	<u>Estimated Total</u>			<u>Lower and Upper Confidence Range for Total Take</u>
	<u>Harvest</u>	<u>Struck and Lost</u>	<u>Total Take</u>	
1992	2,501 87.6%	353 12.4%	2,854 100.0%	2,293 - 3,692
1993	2,365 86.4%	371 13.6%	2,736 100.0%	2,334 - 3,471
1994	2,313 88.2%	308 11.8%	2,621 100.0%	2,110 - 3,457
1995	2,498 91.1%	243 8.9%	2,742 100.0%	2,184 - 3,679
1996	2,415 88.1%	327 11.9%	2,741 100.0%	2,378 - 3,479
1997	2,195 86.2%	351 13.8%	2,546 100.0%	2,069 - 3,309
1998	2,286 88.1%	310 11.9%	2,597 100.0%	2,235 - 3,212
2000	1,975 88.8%	250 11.2%	2,224 100.0%	1,727 - 3,007
2001	1,797 88.5%	234 11.5%	2,031 100.0%	1,621 - 2,647
2002	1,585 86.4%	249 13.6%	1,834 100.0%	1,479 - 2,431
2003	1,812 89.2%	219 10.8%	2,030 100.0%	1,577 - 2,837
2004	1,566 86.0%	256 14.0%	1,822 100.0%	1,420 - 2,469
2005	1,470 86.7%	226 13.3%	1,696 100.0%	1,354 - 2,306
2006	1,423 86.5%	221 13.5%	1,644 100.0%	1,250 - 2,348

Table 5
Regional Distribution of Subsistence Takes of
Harbor Seals (*Phoca vitulina*) by Alaska Natives, 2006
With Confidence Intervals and Statistical Ranges

Region	Estimated Total			Total Take			Percentage of Take by Region	Per Capita Harvest	Struck and Lost Rate
	Harvest	Struck and Lost	Take	Confidence Interval (+/- %)	Lower Range Estimate	Upper Range Estimate			
Southeast	592.7	114.8	707.6	28.4%	611.4	908.8	43.0%	0.04	16.2%
North Pacific Rim	411.1	29.7	440.8	59.7%	294.5	703.9	26.8%	0.20	6.7%
Upper Kenai-Cook Inlet	37.6	13.3	50.9	54.9%	33.0	78.9	3.1%	0.00	26.2%
Kodiak Island	210.3	10.2	220.5	59.4%	140.0	351.6	13.4%	0.13	4.6%
South Alaska Peninsula	52.5	20.6	73.0	32.4%	61.0	96.7	4.4%	0.04	28.1%
Aleutian Islands	54.4	8.6	63.0	50.1%	31.4	94.6	3.8%	0.07	13.6%
Pribilof Islands*	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.00	0.0%
South Bristol Bay	45.4	14.0	59.4	34.9%	52.0	80.1	3.6%	0.05	23.6%
North Bristol Bay	19.1	9.9	29.0	16.1%	27.0	33.7	1.8%	0.01	34.1%
ALASKA	1,423.1	221.2	1,644.2	42.8%	1,250.3	2,348.3	100.0%		13.5%
<i>Percentage of Take</i>	<i>86.5%</i>	<i>13.5%</i>	<i>100.0%</i>						

* St. Paul's 2006 data from Lestenkof et al. (2007).

Geographic Distribution of Harbor Seal Takes

Table 5 shows the regional distribution of harbor seal takes by Alaska Natives in 2006. The largest takes in absolute numbers were by the Tlingit and Haida of the Southeast region. About 43.0% (708 animals) of the statewide take of harbor seals were taken by hunters in Southeast Alaska (Table 5). The regions ranked second and third were the North Pacific Rim (441 seals, or 26.8% of the statewide take) and Kodiak Island (221 seals, or 13.4%). The remainder of the statewide harbor seal take (275 animals, or 16.7%) was distributed among the other 6 regions.

The geographic distribution of harbor seal takes by community is shown in Table 6. Of the top 10 communities (in absolute numbers of harbor seals taken in 2006), 5 were in the Southeast region, 3 in the North Pacific Rim region, and 2 on the South Alaska Peninsula. The 10 top ranking communities were Tatitlek (235 seals), Yakutat (164 seals), Sitka (161 seals), Port Lions (77 seals), Valdez (69 seals), Hoonah (63 seals), Ouzinkie (58 seals), Angoon (54 seals), Port Graham (51 seals), and Juneau (50 seals). There were 11 communities with no reported harbor seals taken in 2006: Adak, Aleknagik, Chignik Lagoon, Clark's Point, False Pass, Klukwan, Levelock, Seward, South Naknek, St. George, and St. Paul (spotted seals were reported taken at Aleknagik and Clark's Point and the Ecosystem Conservation Office at St. Paul did not collect harbor seal data).

Per capita harvests are the numbers of harbor seals harvested per Alaska Native living in a community. It is an estimate of the amount harvested per person in an area, controlling for differences in population size. The top 10 communities in terms of harvests per capita in 2006 were Tatitlek (1.40 seals harvested per person), Karluk (.75), Nikolski (.63), Port Lions (.47), Yakutat (.37), Port Graham (.34), Chenega Bay (.32), Atka (.31), Perryville (.26), and Ouzinkie (.25). There was greater parity across regions in per capita harvests compared with total community take (Table 6). Among the top 10 communities for per capita harvests, 3 were in the Kodiak Islands and North Pacific Rim,

2 in the Aleutian Islands, and one each in the Southeast Region and South Alaska Peninsula.

Seasonal Distribution of Harbor Seal Takes

The seasonal distribution of the statewide harbor seal take in 2006 is depicted in Figs. 4 and 5. Seals were taken during all months in 2006. Since 1992, the seasonal patterning of harbor seal takes commonly has shown 2 distinct hunting peaks, one during spring and a second during fall-early winter; as well as a low point in June (Fig. 5). The spring peak was nearly absent during 2006, with seal harvests building during the year to peaks in November and December (Fig. 4). The disappearance of the spring peak in seal takes is shown in Fig. 5. Overall, harbor seal hunting during 2006 was toward the low range for each month compared with other years. Harbor seal takes in January, May, and October were the lowest recorded for those months since surveys began in 1992. Seasonal hunting patterns of each region and community are shown in the tables and figures of Appendices B and C.

Table 6
Subsistence Harbor Seal Harvest, Take, and Use by Alaska Natives, 2006
With Confidence Intervals and Statistical Ranges, by Community

	Harbor Seal Harvest Per Capita	Native Households Harvesting Harbor Seal	Native Households Using Harbor Seal	Harvest	Struck and Lost	Total Take	Total Take		
							Confidence Interval (+/- %)	Lower Range Estimate	Upper Range Estimate
SOUTHEAST ALASKA									
Angoon	.09	48.6%	97.3%	46.0	8.0	54.0	0.0%	54.0	54.0
Craig	.00	6.7%	13.3%	1.3	0.0	1.3	98.0%	1.0	2.6
Haines	.01	9.1%	18.2%	4.7	0.0	4.7	76.9%	4.0	8.4
Hoonah	.09	26.3%	50.0%	55.6	7.6	63.2	46.1%	50.0	92.3
*Hydaburg	.04	40.0%	40.0%	14.4	0.0	14.4	54.3%	9.0	22.2
Juneau	.01	43.8%	81.3%	26.1	23.4	49.5	41.0%	36.0	69.8
Kake	.08	46.9%	100.0%	40.5	0.0	40.5	14.8%	37.0	46.5
Ketchikan	.02	33.3%	100.0%	37.6	0.0	37.6	83.1%	26.0	68.8
Klawock	.03	28.0%	36.0%	16.2	3.5	19.7	27.4%	17.0	25.1
*Klukwan	.00	0.0%	100.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Pelican	.20	60.0%	80.0%	8.4	0.0	8.4	34.3%	7.0	11.3
Petersburg	.03	20.0%	100.0%	10.0	11.0	21.0	0.0%	21.0	21.0
Saxman	.07	50.0%	90.0%	20.2	0.0	20.2	39.9%	14.4	28.2
*Sitka	.06	53.1%	79.7%	141.2	19.3	160.5	8.9%	158.0	174.8
*Wrangell	.06	33.3%	33.3%	33.3	8.3	41.7	82.9%	25.0	76.2
Yakutat	.37	57.5%	97.5%	137.3	33.8	171.0	21.5%	152.0	207.7
NORTH PACIFIC RIM									
Chenega Bay	.32	18.2%	90.9%	21.3	0.0	21.3	89.1%	13.0	40.2
Cordova	.08	85.7%	85.7%	30.9	2.6	33.4	20.8%	26.5	40.4
Nanwalek	.14	15.4%	100.0%	23.6	5.1	28.7	15.8%	28.0	33.2
Port Graham	.34	29.6%	100.0%	51.0	0.0	51.0	53.0%	26.0	78.1
Seldovia	.04	33.3%	100.0%	2.7	0.0	2.7	98.0%	2.0	5.3
*Seward	.00	0.0%	33.3%	0.0	0.0	0.0	0.0%	0.0	0.0
Tatitlek	2.40	46.7%	100.0%	218.7	16.0	234.7	55.8%	176.0	365.7
*Valdez	.15	100.0%	100.0%	63.0	6.0	69.0	104.4%	23.0	141.0
UPPER KENAI-COOK INLET									
Anchorage	.00	33.3%	60.0%	25.0	13.3	38.3	59.5%	23.0	61.1
Homer	.02	28.6%	42.9%	5.6	0.0	5.6	92.4%	3.0	10.7
Kenai	.00	100.0%	100.0%	6.0	0.0	6.0	0.0%	6.0	6.0
Tyonek	.01	50.0%	100.0%	1.0	0.0	1.0	0.0%	1.0	1.0
KODIAK ISLAND									
Akhiok	.18	53.3%	100.0%	13.6	1.1	14.7	22.5%	13.0	18.1
*Karluk	.75	76.9%	76.9%	19.4	0.0	19.4	12.5%	18.0	21.8
*Kodiak City	.01	27.3%	54.5%	10.8	0.0	10.8	61.8%	7.0	17.5
Larsen Bay	.22	31.6%	57.9%	20.3	0.0	20.3	56.2%	11.0	31.7
Old Harbor	.10	17.5%	79.4%	20.2	0.0	20.2	15.1%	19.0	23.3
Ouzinkie	.25	41.9%	100.0%	49.0	9.1	58.1	16.9%	51.0	67.9
*Port Lions	.47	66.7%	100.0%	77.0	0.0	77.0	122.5%	21.0	171.4
SOUTH ALASKA PENINSULA									
Chignik Bay	.00	12.5%	18.8%	4.3	1.4	5.8	83.8%	4.0	10.6
Chignik Lagoon	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Chignik Lake	.00	0.0%	58.8%	0.0	2.9	2.9	110.9%	2.0	6.2
False Pass	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Ivanof Bay	.14	100.0%	100.0%	3.0	0.0	3.0	0.0%	3.0	3.0
King Cove	.04	100.0%	100.0%	14.0	0.0	14.0	0.0%	14.0	14.0
Perryville	.26	42.3%	69.2%	27.4	14.3	41.7	24.7%	35.0	52.0
Sand Point	.01	12.5%	25.0%	3.8	1.9	5.6	93.9%	3.0	10.9
PRIBILOF ISLANDS									
St. George	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
**St. Paul	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0

Table 6 (Continued)
Subsistence Harbor Seal Harvest, Take, and Use by Alaska Natives, 2006
With Confidence Intervals and Statistical Ranges, by Community

	Harbor Seal Harvest Per Capita	Native Households Harvesting Harbor Seal	Native Households Using Harbor Seal	Harvest	Struck and Lost	Total Take	Total Take		
							Confidence Interval (+/- %)	Lower Range Estimate	Upper Range Estimate
ALEUTIAN ISLANDS									
Adak	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Akutan	.02	4.2%	25.0%	2.4	0.0	2.4	81.4%	0.4	4.4
Atka	.31	41.7%	83.3%	26.0	4.0	30.0	58.1%	12.6	47.4
Nikolski	.63	100.0%	100.0%	17.0	1.0	18.0	0.0%	18.0	18.0
Unalaska	.02	20.0%	20.0%	9.0	3.6	12.6	96.6%	0.4	24.8
SOUTH BRISTOL BAY									
Egegik	.00	3.7%	11.1%	3.0	0.0	3.0	0.0%	3.0	3.0
King Salmon	.05	20.0%	33.3%	7.0	0.0	7.0	66.3%	5.0	11.6
Levelock	.00	0.0%	66.7%	0.0	0.0	0.0	0.0%	0.0	0.0
Naknek	.02	3.6%	26.8%	15.1	7.5	22.6	32.2%	21.0	29.9
Pilot Point	.03	20.0%	60.0%	3.0	0.0	3.0	160.0%	1.0	7.8
Port Heiden	.19	32.0%	48.0%	17.3	6.5	23.8	16.9%	22.0	27.8
South Naknek	.00	0.0%	4.8%	0.0	0.0	0.0	0.0%	0.0	0.0
NORTH BRISTOL BAY									
*Aleknagik	.00	20.6%	85.3%	0.0	0.0	0.0	0.0%	0.0	0.0
Clark's Point	.00	27.8%	77.8%	0.0	0.0	0.0	0.0%	0.0	0.0
Dillingham	.00	11.1%	74.1%	0.0	1.0	1.0	0.0%	1.0	0.0
*Manokotak	.02	45.1%	85.9%	6.6	8.9	15.5	24.1%	14.0	19.2
Togiak	.02	25.8%	58.2%	11.5	0.0	11.5	16.7%	11.0	13.5
Twin Hills	.02	18.8%	87.5%	1.0	0.0	1.0	0.0%	1.0	1.0
ALASKA TOTAL				1,423.1	221.2	1,644.2	42.8%	1,250.3	2,348.3
SPOTTED SEALS, NORTH BRISTOL BAY***									
Aleknagik	.05	20.6%	85.3%	9.6	7.2	16.9	30.1%	14.0	22.0
Clark's Point	.20	27.8%	77.8%	14.1	2.6	16.6	38.0%	13.0	22.9
Dillingham	.01	11.1%	74.1%	15.2	0.0	15.2	69.2%	9.0	25.8
Manokotak	.12	45.1%	85.9%	45.9	8.9	54.8	10.7%	49.0	60.7
Togiak	.07	25.8%	58.2%	50.9	7.4	58.3	12.1%	55.0	65.4
Twin Hills	.06	18.8%	87.5%	4.0	4.0	8.0	0.0%	8.0	8.0
TOTAL WITH OTHER SEALS				1,562.9	251.2	1,814.1	2.0	1,398.3	2,552.9

* Data not available for 2006. Data reported for the most recent year for which data are available.

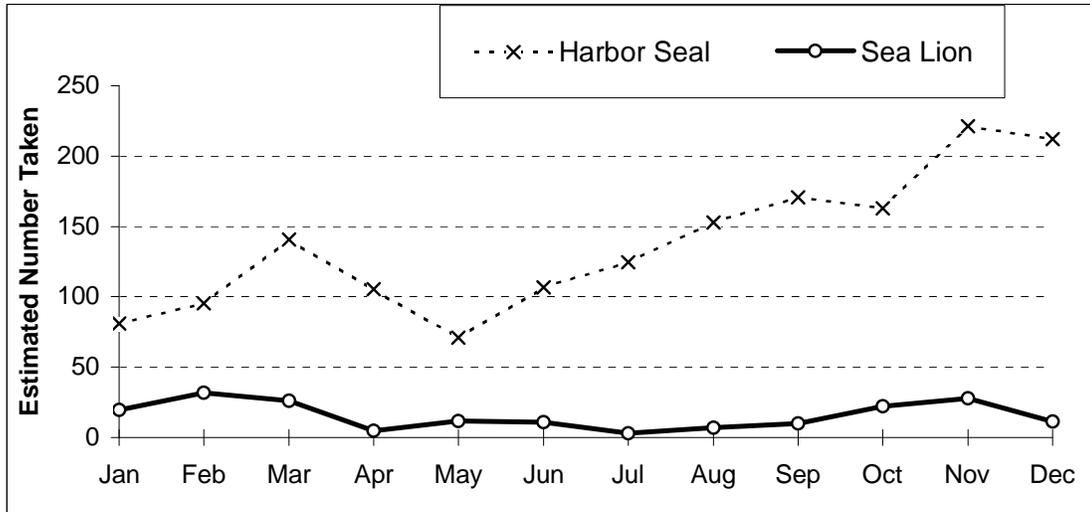
** St. Paul's 2006 data from Lestenkof et al. (2007).

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

Age and Sex Composition of Harbor Seal Harvests

The estimated age and sex composition of the 2006 harbor seal harvests are shown in Tables 7 and 8 by geographic region. Hunters reported harvesting male harbor seals over female harbor seals by a ratio of about 3.3 to one (705 males to 215 females of harvests with reported sex). Hunters also reported harvesting substantially more adult harbor seals (78.0%) than juveniles (19.5%) or pups (2.5%). Overall, adult females (163 animals) comprised about 18.2% of the total harbor seal harvest whose age and sex was reported in 2006. Hunters did not report the sex for 35.4% of the harvest or the age for about 21.4% of the harvest. The age and sex are also unknown for animals that were struck and lost. A further analysis of age and sex composition is found in the "Discussion" section.

Figure 4
Seasonally Adjusted Takes
of Harbor Seals and Sea Lions
By Alaska Natives, 2006



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Harbor Seal	81.0	95.2	140.6	105.5	71.2	106.9	124.4	152.8	170.7	162.9	221.2	211.9
Percentage	4.9%	5.8%	8.6%	6.4%	4.3%	6.5%	7.6%	9.3%	10.4%	9.9%	13.5%	12.9%
Cum. Percent	4.9%	10.7%	19.3%	25.7%	30.0%	36.5%	44.1%	53.4%	63.8%	73.7%	87.1%	100%

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Sea Lion	19.5	31.7	26.0	4.8	11.7	10.9	3.0	6.8	10.2	22.2	27.9	11.4
Percentage	10.5%	17.1%	14.0%	2.6%	6.3%	5.8%	1.6%	3.6%	5.5%	12.0%	15.0%	6.1%
Cum. Percent	10.5%	27.5%	41.5%	44.1%	50.3%	56.2%	57.8%	61.4%	66.9%	78.9%	93.9%	100%

Figure 5
Mean Seasonally Adjusted Takes of Harbor Seals
by Alaska Natives, 1992-1996, 1997-2001, and 2002-2006

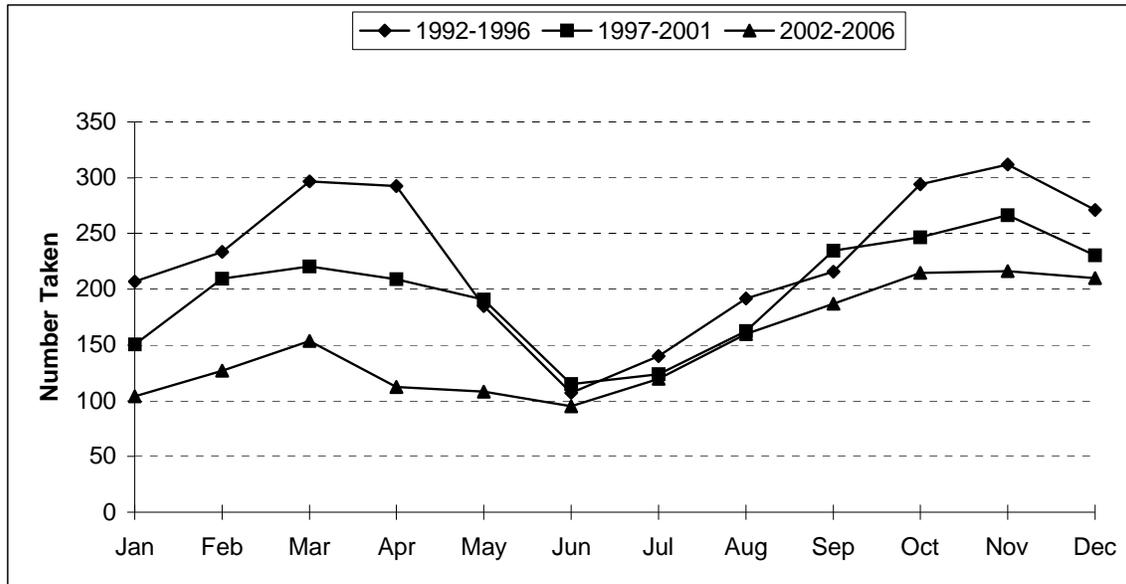


Table 7
Age and Sex Composition of Harbor Seal Harvests
By Alaska Natives, 2006

	Male	Female	Unknown Sex	Total
Adult	584.3	162.8	125.0	872.1
Row Percent	67.0%	18.7%	14.3%	100.0%
Column Percent	82.9%	75.8%	24.8%	61.3%
Juvenile	92.7	51.0	73.8	217.5
Row Percent	42.6%	23.4%	33.9%	100.0%
Column Percent	13.2%	23.7%	14.7%	15.3%
Pup	4.6	1.0	22.7	28.3
Row Percent	16.3%	3.7%	80.0%	100.0%
Column Percent	0.7%	0.5%	4.5%	2.0%
Unknown Age	23.1	0.0	282.0	305.1
Row Percent	7.6%	0.0%	92.4%	100.0%
Column Percent	3.3%	0.0%	56.0%	21.4%
Total	704.7	214.9	503.5	1,423.1
Row Percent	49.5%	15.1%	35.4%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%

Table 8
Age and Sex Composition of Harbor Seal Harvests
By Alaska Natives by Region, 2006

AGE AND SEX	Southeast	North	Upper	Kodiak Island	South	Aleutian Islands	Pribilof Islands	South	North	Alaska
		Pacific Rim	Kenai- Cook Inlet		Alaska Peninsula			Bristol Bay	Bristol Bay	
Adult Male	307.7	68.6	3.3	132.7	19.4	37.2	0.0	13.1	2.3	584.3
Adult Female	89.6	18.1	0.0	30.3	11.0	2.8	0.0	9.9	1.0	162.8
Adult Unknown Sex	29.0	24.5	23.5	33.6	3.2	1.8	0.0	7.3	2.1	125.0
Juvenile Male	65.6	5.2	0.0	5.5	8.2	4.8	0.0	0.0	3.3	92.7
Juvenile Female	28.1	11.6	0.0	1.1	6.0	0.0	0.0	4.2	0.0	51.0
Juvenile Unknown Sex	14.5	44.1	3.7	1.1	1.2	1.8	0.0	0.0	7.3	73.8
Pup Male	2.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	1.0	4.6
Pup Female	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
Pup Unknown Sex	3.0	18.6	0.0	0.0	0.0	0.0	0.0	0.0	1.0	22.7
Male Unknown Age	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.1
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	30.0	220.3	7.0	4.4	3.6	6.0	0.0	10.8	0.0	282.0
TOTAL	592.7	411.1	37.6	210.3	52.5	54.4	0.0	45.4	19.1	1,423.1
AGE ONLY										
Adult	426.3	111.2	26.9	196.6	33.6	41.8	0.0	30.4	5.4	872.1
Juvenile	108.3	61.0	3.7	7.7	15.3	6.6	0.0	4.2	10.6	217.5
Pup	5.0	18.6	0.0	1.5	0.0	0.0	0.0	0.0	3.1	28.3
Unknown Age	53.1	220.3	7.0	4.4	3.6	6.0	0.0	10.8	0.0	305.1
TOTAL	592.7	411.1	37.6	210.3	52.5	54.4	0.0	45.4	19.1	1,423.1
SEX ONLY										
Male	398.4	73.8	3.3	139.7	27.6	42.0	0.0	13.1	6.7	704.7
Female	117.8	29.7	0.0	31.4	17.0	2.8	0.0	14.1	2.1	214.9
Unknown Sex	76.5	307.6	34.2	39.1	8.0	9.6	0.0	18.1	10.4	503.5
TOTAL	592.7	411.1	37.6	210.3	52.5	54.4	0.0	45.4	19.1	1,423.1

Hunter Assessments of Harbor Seal Population Trends

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

In almost all regions, a portion of households reported that local harbor seal populations had "increased," "remained stable," or "declined." Comparing 2004 with 1999, a majority of hunters reported "increased" seal populations in Kodiak Island (52.9%), South Bristol Bay (54.2%), and Upper Kenai-Cook Inlet (57.1%). "Stable seal populations" was the most common assessment in all other regions except for the Aleutian Islands, where one-half of the hunters reported that populations "declined." Notable shifts in hunter assessments of trends between the 2 comparison periods are apparent for the North Pacific Rim (from 60.0% "declined" to 60.7% "stable"), Kodiak Island (from 18.7% "increased" to 52.9% "increased"), Southeast (from 10.1% "declined" to 28.5% "declined"), and South Alaska Peninsula (from 55.8% "declined" to 69.2% "stable"). Overall, based on hunter assessments of recent trends, harbor seal populations in most regions were primarily judged to be "stable" or "increased," except for the Aleutian Islands, where seal populations were assessed as "stable" or "declined."

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

Comparing 2000 with 1995

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

Comparing 2004 with 1999

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

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

THE SUBSISTENCE TAKE OF SEA LIONS IN 2006

Estimated Size of the Sea Lion Take, 2006

The estimated size of the total take of Steller sea lions by Alaska Natives in 2006 is presented in Tables 10 and 11. In 2006, there were an estimated 186 sea lions taken by Alaska Natives for subsistence uses (with a 95% confidence range of between 125 to 289 animals) (Table 10). Of the 2006 subsistence take, 26.5% (49 sea lions) were struck and lost, and 73.5% (137 sea lions) were harvested.

Geographic Distribution of Sea Lion Takes

Table 11 shows the regional distribution of sea lion takes in 2006 by Alaska Natives. In 2006, the takes were split among 4 main regions: the Aleutian Islands (83 sea lions, or 44.5% of the total statewide take of sea lions), the Pribilof Islands (40 sea lions, or 21.5%), the North Pacific Rim (25 sea lions, or 13.5%), and South Alaska Peninsula (19 sea lions, or 10.0%). Other regions harvesting sea lions were the Southeast region (13 sea lions, 6.7%) and Kodiak Island (7 sea lions, 3.8%) (Table 11).

The geographic distribution of sea lion takes by community is shown in Table 12. In 2006, 15 of 62 surveyed communities reported taking sea lions. Eight communities had takes of 5 or more sea lions in 2006. Seven more communities reported a take of fewer than 5 sea lions each. The 6 top-ranking communities were Atka (66 sea lions), St. Paul (26 sea lions), Tatitlek (24 sea lions), Unalaska (14 sea lions), St. George (14 sea lions), and King Cove (13 sea lions). These 6 communities accounted for 157 sea lions, or 84.6% of the total Alaska take.

Table 10
Estimated Subsistence Takes of
Sea Lions (*Eumetopias jubatus*)
By Alaska Natives, 1992 - 2006

<u>Year</u>	<u>Estimated Total</u>		<u>Total Take</u>	<u>Lower and Upper Confidence Range for Total Take</u>
	<u>Harvest</u>	<u>Struck and Lost</u>		
1992	370 67.4%	179 32.6%	549 100.0%	452 - 712
1993	348 71.4%	139 28.6%	487 100.0%	390 - 629
1994	336 80.8%	80 19.2%	416 100.0%	330 - 554
1995	307 90.5%	32 9.5%	339 100.0%	258 - 465
1996	152 81.7%	34 18.3%	186 100.0%	165 - 226
1997	146 89.1%	18 10.9%	164 100.0%	132 - 227
1998	131 73.6%	47 26.4%	178 100.0%	137 - 257
2000	146 85.5%	24 13.9%	171 99.4%	121 - 244
2001	156 78.7%	42 21.3%	198 100.0%	162 - 282
2002	144 77.9%	41 22.1%	185 100.0%	145 - 248
2003	165 78.0%	47 22.0%	212 100.0%	149 - 303
2004	154 71.6%	61 28.4%	216 100.0%	147 - 335
2005	162 74.5%	56 25.5%	218 100.0%	169 - 301
2006	137 73.5%	49 26.5%	186 100.0%	125 - 289

Table 11
Regional Distribution of Subsistence Takes of
Sea Lions (*Eumetopias jubatus*) by Alaska Natives, 2006
With Confidence Intervals and Statistical Ranges

Region	Estimated Total			Total Take			Percentage of Take by Region	Per Capita Harvest	Struck and Lost Rate
	Harvest	Struck and Lost	Take	Confidence Interval (+/-)%	Lower Range Estimate	Upper Range Estimate			
Southeast	2.5	10.1	12.6	73.9%	10.0	22.0	6.8%	0.00	79.9%
North Pacific Rim	17.0	8.0	25.0	79.3%	19.0	44.9	13.5%	0.01	32.0%
Upper Kenai-Cook Inlet	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.00	0.0%
Kodiak Island	7.0	0.0	7.0	109.7%	4.0	14.7	3.8%	0.00	0.0%
South Alaska Peninsula	17.5	1.1	18.5	46.0%	15.0	27.1	10.0%	0.01	5.8%
Aleutian Islands	63.4	19.4	82.8	62.4%	43.0	134.5	44.5%	0.09	23.4%
Pribilof Islands*	29.3	10.7	40.0	0.0%	34.0	46.0	21.5%	0.05	26.7%
South Bristol Bay	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.00	0.0%
North Bristol Bay	0.0	0.0	0.0	0.0%	0.0	0.0	0.0%	0.00	0.0%
ALASKA	136.8	49.2	186.0	55.4%	125.0	289.1	100.0%		26.5%
<i>Percentage of Take</i>	<i>73.5%</i>	<i>26.5%</i>	<i>100.0%</i>						

* St. Paul's 2006 data from Lestenkof et al. (2007).

Table 12
Subsistence Sea Lion Harvest, Take, and Use by Alaska Natives, 2006
With Confidence Intervals and Statistical Ranges, by Community

	Sea Lion Harvest Per Capita	Native Households Harvesting Sea Lion	Native Households Using Sea Lion	Harvest	Struck and Lost	Total Take	Total Take		
							Confidence Interval (+/- %)	Lower Range Estimate	Upper Range Estimate
SOUTHEAST ALASKA									
Angoon	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Craig	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Haines	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Hoonah	.00	0.0%	0.0%	0.0	10.1	10.1	70.1%	8.0	17.2
*Hydaburg	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Juneau	.00	6.3%	6.3%	1.4	0.0	1.38	102.4%	1.0	2.8
Kake	.00	0.0%	0.0%	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%	0.0	0.0
Klawock	.00	4.0%	4.0%	1.2	0.0	1.16	72.8%	1.0	2.0
*Klukwan	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Pelican	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Petersburg	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Saxman	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
*Sitka	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
*Wrangell	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Yakutat	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
NORTH PACIFIC RIM									
Chenega Bay	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Cordova	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Nanwalek	.01	2.6%	23.1%	1.0	0.0	1.0	31.0%	1.0	1.3
Port Graham	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Seldovia	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
*Seward	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Tatitlek	.18	13.3%	60.0%	16.0	8.0	24.0	81.4%	18.0	43.5
*Valdez	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
UPPER KENAI-COOK INLET									
*Anchorage	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
*Homer	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
*Kenai	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
*Tyonek	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
KODIAK ISLAND									
Akhiok	.03	13.3%	20.0%	2.3	0.0	2.3	45.8%	2.0	3.3
*Karluk	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
*Kodiak City	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Larsen Bay	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Old Harbor	.01	1.6%	30.2%	1.1	0.0	1.1	47.9%	1.0	1.6
Ouzinkie	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
*Port Lions	.02	33.3%	33.3%	3.7	0.0	3.7	167.1%	1.0	9.8
SOUTH ALASKA PENINSULA									
Chignik Bay	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Chignik Lagoon	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Chignik Lake	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
False Pass	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Ivanof Bay	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
King Cove	.03	84.6%	84.6%	11.8	1.1	12.9	7.8%	12.0	13.9
Perryville	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Sand Point	.01	12.5%	12.5%	5.6	0.0	5.6	133.9%	3.0	13.2

Table 12 (Continued)
Subsistence Sea Lion Harvest, Take, and Use by Alaska Natives, 2006
With Confidence Intervals and Statistical Ranges, by Community

	Sea Lion Harvest Per Capita	Native Households Harvesting Sea Lion	Native Households Using Sea Lion	Harvest	Struck and Lost	Total Take	Total Take		
							Confidence Interval (+/- %)	Lower Range Estimate	Upper Range Estimate
ALEUTIAN ISLANDS									
Adak	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Akutan	.02	8.3%	54.2%	2.4	0.0	2.4	56.3%	2.0	3.8
Atka	.62	41.7%	100.0%	52.0	14.0	66.0	56.6%	33.0	103.3
Nikolski	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Unalaska	.02	20.0%	20.0%	9.0	5.4	14.4	90.4%	8.0	27.4
PRIBILOF ISLANDS									
*St. George	.07	100.0%	100.0%	9.3	4.7	14.0	42.8%	8.0	20.0
**St. Paul	.04	N/A	N/A	20.0	6.0	26.0	0.0	26.0	26.0
SOUTH BRISTOL BAY									
Egegik	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
King Salmon	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Levelock	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Naknek	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Pilot Point	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Port Heiden	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
South Naknek	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
NORTH BRISTOL BAY									
*Aleknagik	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Clark's Point	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Dillingham	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
*Manokotak	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Togiak	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
Twin Hills	.00	0.0%	0.0%	0.0	0.0	0.0	0.0%	0.0	0.0
ALASKA TOTAL				136.8	49.2	186.0	55.4%	125.0	289.1

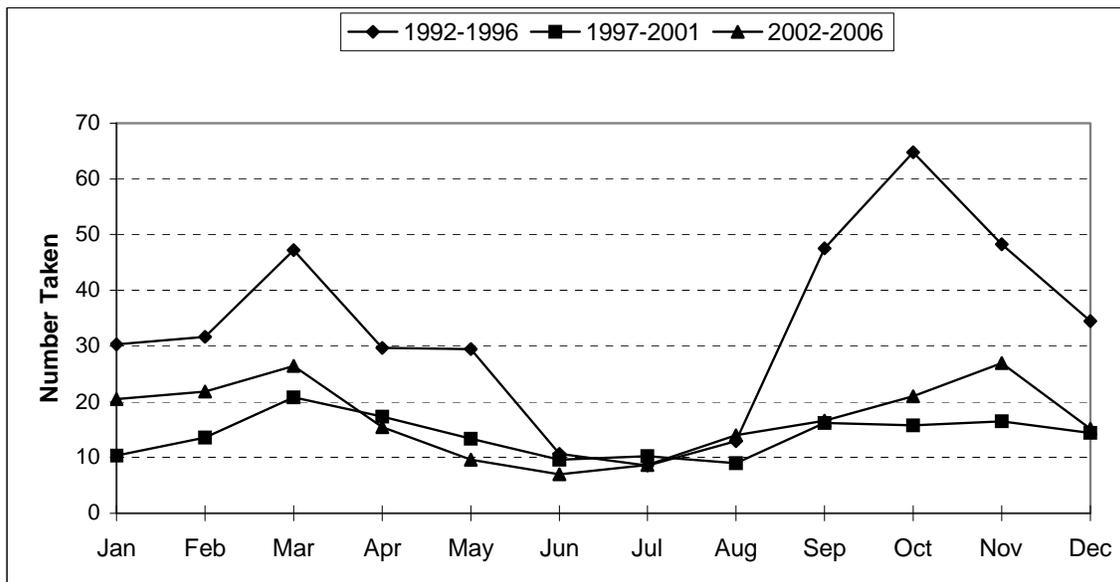
* Data not available for 2006. Data reported for the most recent year for which data are available.

** St. Paul's 2006 data from Lestenkof et al. (2007).

Seasonal Distribution of Sea Lion Takes

The seasonal distribution of the sea lion take in 2006 is depicted in Figs. 4 and 6. Sea lions were reported killed during every month in 2006. Productivity was greatest in March (26.0 sea lions) and lowest in June (8.9 sea lions). The monthly productivity of sea lion hunting in 2006 showed a mid-range of productivity compared with recent years. Overall, productivity was substantially poorer compared with the period 1992 through 1996. The declines of productivity during both the spring and fall periods are particularly notable in Fig. 6. Seasonal hunting patterns of regions and communities are depicted in the tables and figures of Appendices B and C.

Figure 6
Mean Seasonally Adjusted Takes of Sea Lions
by Alaska Natives, 1992-1996, 1997-2001, and 2002-2006



Age and Sex Composition of Sea Lion Harvests

The reported age and sex compositions of the 2006 sea lion harvests are shown in Tables 13 and 14. Hunters reported harvesting male over female sea lions by a ratio of about 5.2 to one (79.3 males to 15.3 females of animals with sex reported), above the previous 5-year ratio of 2.7 to one (Fig. 26). In 2006, hunters reported taking more adult sea lions (67.2 adults, 63.7% of the take with age reported) than juvenile sea lions (38.3 juveniles, 36.3%) and sea lion pups (0.0 pups, 0.0%). From 1992 to 1995, juvenile harvests outnumbered adult harvests by at least 2 to one: 2.3 juveniles to one adult (1992), 1.9 (1993), 2.2 (1994), and 2.0 (1995). Since 1996, the ratio of juveniles to adults decreased substantially: 1.0 juvenile to one adult (1996), 1.4 (1997), 0.7 (1998), 1.0 (2000), and 0.9 (2001). Juvenile sea lion harvests were substantially less than adult harvests for the first time in 2002 (0.5 to one), followed by ratios of 0.5 (2003), 0.7 (2004), 0.5 (2005), and 0.6 (2006). Adult females (13 animals) comprised about 14.0% of the total harvest of sea lions of known age and sex in 2006. Hunters did not report the sex for 30.8% of the harvest or the age for about 22.8% of the harvest. The age and sex also are unknown for sea lions that were struck and lost by surveyed hunters.

Table 13
Age and Sex Composition of Sea Lion Harvests
By Alaska Natives, 2006

	Male	Female	Unknown Sex	Total
Adult	46.7	13.3	7.4	67.3
Row Percent	69.3%	19.7%	10.9%	100.0%
Column Percent	58.8%	86.9%	17.4%	49.2%
Juvenile	32.7	2.0	3.7	38.3
Row Percent	85.2%	5.2%	9.6%	100.0%
Column Percent	41.2%	13.1%	8.7%	28.0%
Pup	0.0	0.0	0.0	0.0
Row Percent	0.0%	0.0%	0.0%	0.0%
Column Percent	0.0%	0.0%	0.0%	0.0%
Unknown Age	0.0	0.0	31.2	31.2
Row Percent	0.0%	0.0%	100.0%	100.0%
Column Percent	0.0%	0.0%	73.9%	22.8%
Total	79.3	15.3	42.2	136.8
Row Percent	58.0%	11.2%	30.8%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%

Table 14
Age and Sex Composition of Sea Lion Harvests
By Alaska Natives by Region, 2006

AGE AND SEX	Southeast	North	Upper	Kodiak Island	South	Aleutian Islands	Pribilof Islands*	South	North	Alaska
		Pacific Rim	Kenai- Cook Inlet		Alaska Peninsula			Bristol Bay	Bristol Bay	
Adult Male	1.4	0.0	0.0	2.2	7.5	33.2	2.3	0.0	0.0	46.7
Adult Female	0.0	1.0	0.0	1.1	4.3	6.8	0.0	0.0	0.0	13.3
Adult Unknown Sex	0.0	0.0	0.0	0.0	3.8	3.6	0.0	0.0	0.0	7.4
Juvenile Male	0.0	0.0	0.0	3.7	0.0	4.0	25.0	0.0	0.0	32.7
Juvenile Female	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	2.0
Juvenile Unknown Sex	0.0	0.0	0.0	0.0	1.9	1.8	0.0	0.0	0.0	3.7
Pup Male	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pup Female	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pup Unknown Sex	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Male Unknown Age	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Female Unknown Age	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown Age and Sex	1.2	16.0	0.0	0.0	0.0	14.0	0.0	0.0	0.0	31.2
TOTAL	2.5	17.0	0.0	7.0	17.5	63.4	29.3	0.0	0.0	136.8
AGE ONLY										
Adult	1.4	1.0	0.0	3.3	15.6	43.6	2.3	0.0	0.0	67.3
Juvenile	0.0	0.0	0.0	3.7	1.9	5.8	27.0	0.0	0.0	38.3
Pup	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown Age	1.2	16.0	0.0	0.0	0.0	14.0	0.0	0.0	0.0	31.2
TOTAL	2.5	17.0	0.0	7.0	17.5	63.4	29.3	0.0	0.0	136.8
SEX ONLY										
Male	1.4	0.0	0.0	5.9	7.5	37.2	27.3	0.0	0.0	79.3
Female	0.0	1.0	0.0	1.1	4.3	6.8	2.0	0.0	0.0	15.3
Unknown Sex	1.2	16.0	0.0	0.0	5.6	19.4	0.0	0.0	0.0	42.2
TOTAL	2.5	17.0	0.0	7.0	17.5	63.4	29.3	0.0	0.0	136.8

Hunter Assessments of Sea Lion Population Trends

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

Comparing 2000 with 1995, a majority of households in all regions reported that local sea lion populations had “declined” in household hunting areas. These subjective assessments of population trends had substantially changed by 2004 in 3 regions. Comparing 2004 with 1999, a majority of hunters judged sea lions populations to be “increased” or “stable” in the Southeast, North Pacific Rim, and Kodiak Island regions. In these 3 regions, 16.7% or less of hunters reported sea lion populations had “declined” comparing 2004 with 1999. By contrast, in the South Alaska Peninsula, 66.7% of hunters reported sea lion populations had “declined” comparing 2004 with 1999, similar to the assessment comparing 2000 with 1995 (63.6% of hunters reported “declined”). In the Aleutian Islands, one-half of surveyed hunters assessed that sea lion populations had “declined” comparing 2004 with 1999, while one-half assessed populations as “stable.”

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

Comparing 2000 with 1995

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

Comparing 2004 with 1999

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

HUNTING PARTICIPATION AND EFFORT

In the calendar year 2006, about 540 households hunted harbor seals and 57 households hunted sea lions (Table 16). Since 1992, there has been a substantial decline in the numbers of hunters for harbor seals and for sea lions (Fig. 8). Based on survey findings, the estimated numbers of households that reported at least one member hunting harbor seals were 1,014 (1992), 854 (1993), 971 (1994), 805 (1995), 859 (1996), 738 (1997), 707 (1998), 745 (2000), 575 (2001), 600 (2002), 564 (2003), 535 (2004), and 517 (2005). The estimated number of households (excluding St. Paul) that reported at least one member hunting sea lions was 135 (1992), 147 (1993), 154 (1994), 123 (1995), 95 (1996), 75 (1997), 76 (1998), 86 (2000), 98 (2001), 90 (2002), 97 (2003), 68 (2004), and 68 (2005).

The percentage of hunting households that reported hunting unsuccessfully for harbor seals in 2006 was 14% , compared with 29% (1992), 25% (1993), 37% (1994), 26% (1995), 28% (1996), 20% (1997), 14% (1998), 17% (2000), 14% (2001), 17% (2002), 20% (2003), 15% (2004), and 12% (2005). Therefore, seal hunter success rates have slightly improved while the absolute number of hunters has fallen. The percentage of unsuccessful hunting households for sea lions (excluding St. Paul) was 11% in 2006, compared with 33% (1992), 41% (1993), 46% (1994), 26% (1995), 28% (1996), 18% (1997), 28% (1998), 19% (2000), 20% (2001), 22% (2002 to 2004), and 18% (2005).

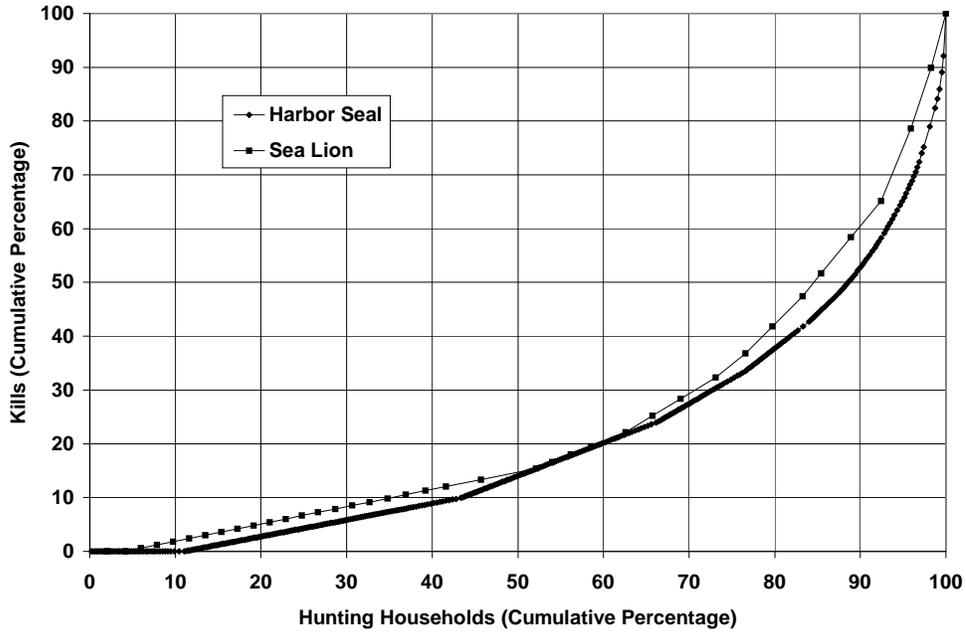
In the 2000 survey cycle, surveyed households were asked to make a subjective assessment of their hunting effort in 2000 compared with 5 years before. Households were asked, “compared to 5 years ago, does harbor seal hunting now take your household ‘more time and effort,’ ‘about the same time and effort,’ ‘less time and effort,’

Table 16
Alaska Native Households Hunting or Harvesting
Harbor Seals or Sea Lions, 1992 - 2006

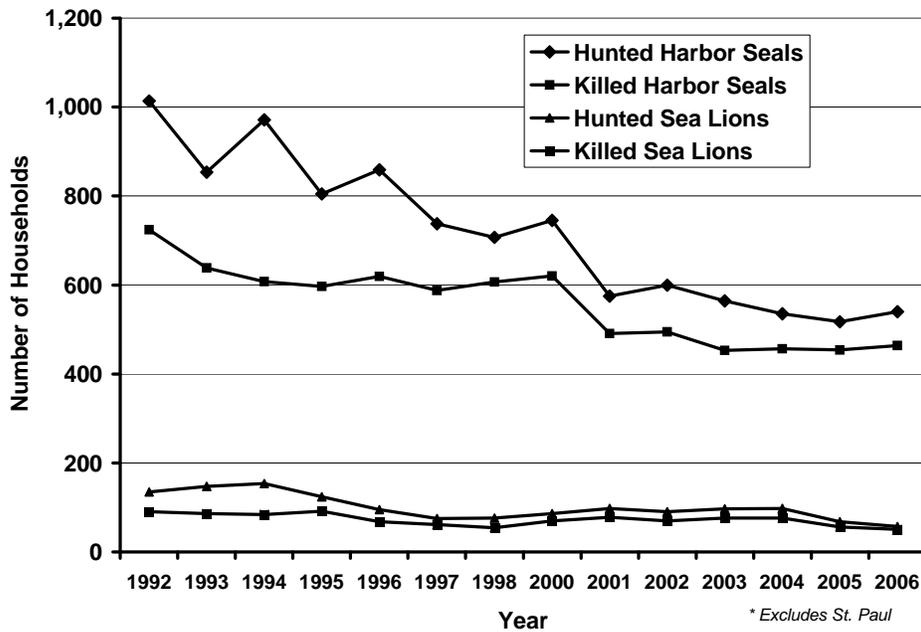
Year	HARBOR SEALS			SEA LIONS *		
	Households Hunting	Households Harvesting	Success Rate	Households Hunting	Households Harvesting	Success Rate
1992	1,014	724	71%	135	91	67%
1993	854	638	75%	147	86	59%
1994	971	608	63%	154	84	54%
1995	805	597	74%	123	92	74%
1996	859	619	72%	95	68	72%
1997	738	588	80%	75	62	82%
1998	707	607	86%	76	54	72%
2000	745	620	83%	86	70	81%
2001	575	491	85%	98	78	80%
2002	600	495	83%	90	70	78%
2003	564	453	80%	97	76	78%
2004	535	457	85%	98	76	78%
2005	517	454	88%	68	56	82%
2006	540	464	86%	57	51	89%

* Excludes St. Paul

**Fig. 7. Specialization in Harbor Seal and Sea Lion Takes:
Percentage of Hunting Households by Percentage of Take, 2006**



**Fig. 8. Trends in the Numbers of Households
Hunting Harbor Seals and Sea Lions, 1992-2006 ***



* Excludes St. Paul

'hunted then but now stopped,' or 'not applicable (no hunting last 5 years)'?" A similar question was asked for sea lion hunting. This information is useful to display here, although it pertains to the year 2000 compared with 1995–1999. The subjective assessments for hunting households are shown in Tables 17 and 18 (responses of households not hunting during the previous 5 years are removed in this analysis).

In all regions, a portion of hunting households reported "more," the "same," or "less" time and effort in hunting harbor seals in 2000 (Table 17). In the Southeast region, where most harbor seals are taken, about 54.7% reported taking the "same time and effort" for hunting seals, while 30.2% reported taking "less time and effort." Only 8.7% of households reported taking "more time and effort" compared with the prior 5 years. By contrast, larger percentages of households reported taking "more time and effort" in seal hunting in the Aleutian Islands (42.6%), North Pacific Rim (33.7%), and Kodiak Island (29.5%). In the North Pacific Rim and Kodiak Island regions, a substantial percentage of households reported that they had stopped hunting harbor seals sometime during the prior 5 years: 17.4% (North Pacific Rim) and 20.0% (Kodiak Island).

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

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

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

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

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

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

Hunting harbor seals or sea lions is a relatively specialized subsistence activity in Alaska communities. The large majority of Native households in the study's sampling universe did not attempt to hunt harbor seals or sea lions. In 2006, 67% of surveyed households did not hunt harbor seals and 97% did not hunt sea lions. Among hunters, there also was substantial specialization in productivity (see Fig. 7). A relatively small core of highly-productive hunters reported taking most of the subsistence kills during 2006, similar to previous years. About 30% of the hunters reported taking about 72%–73% of all harbor seals and sea lions (Fig. 7). Highly-productive hunters commonly distributed marine mammal products to other households through non-commercial networks of sharing and trade.

DISCUSSION

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

Harbor Seal Subsistence Trends, 1992-2006

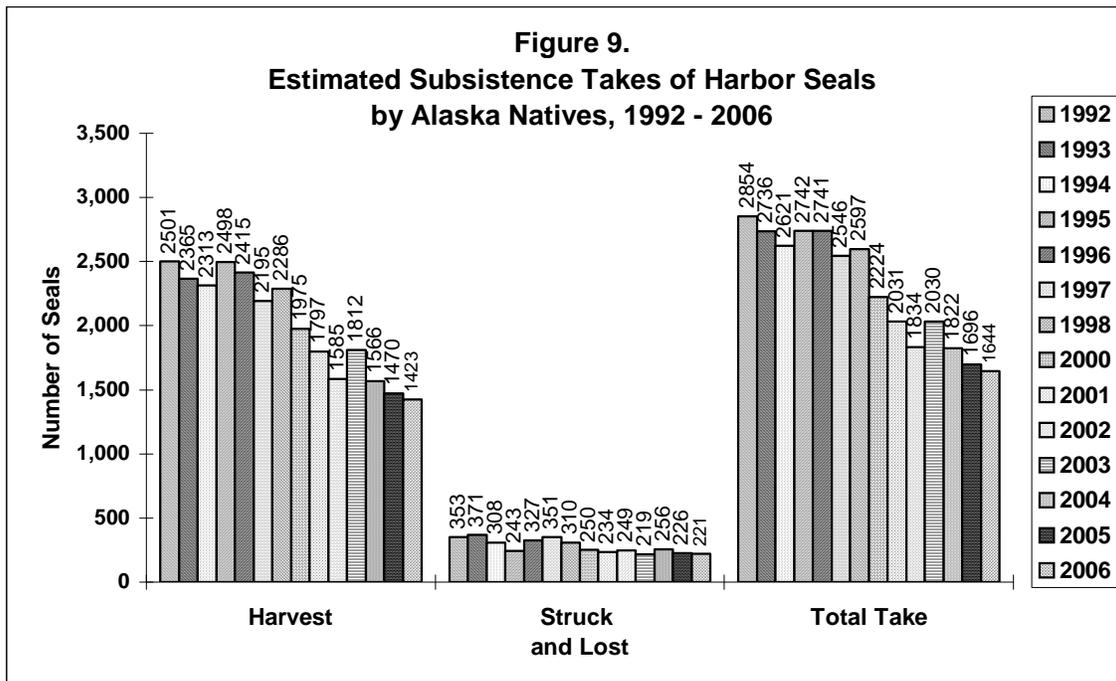
At the statewide level, subsistence takes of harbor seals have been declining since about 1995 (when 2,742 seals were taken) to a low in 2006 (1,644 seals), the lowest take since surveys began in 1992 (Table 4, Fig. 9). Comparing consecutive paired survey years since 1992, harbor seal takes have declined in 9 of the years, increased in 3 of the years, and remained unchanged in one year (Fig. 24). This indicates a declining trend in the annual subsistence takes of harbor seals in Alaska.

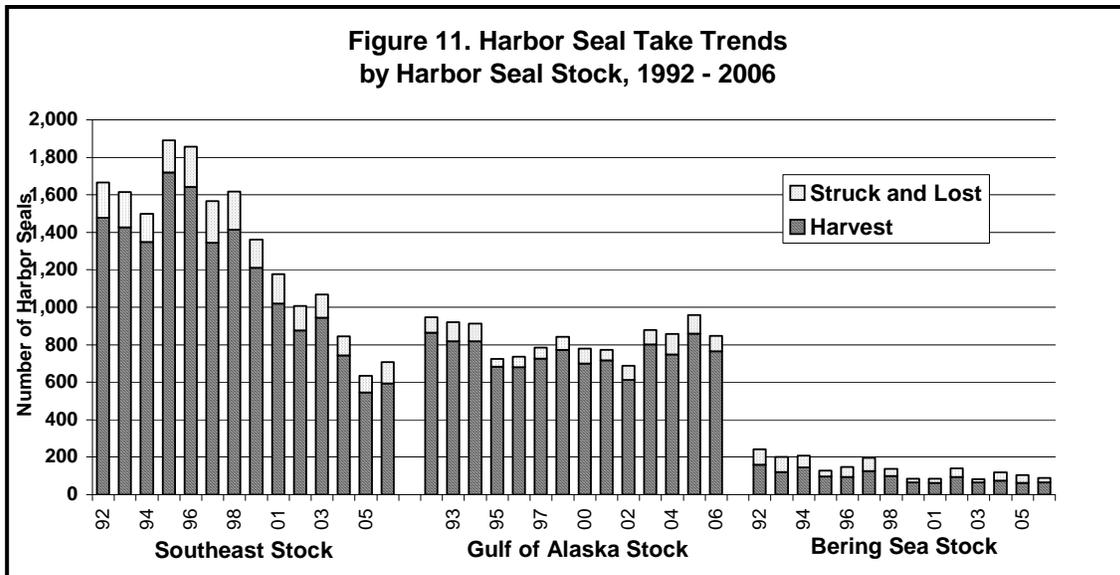
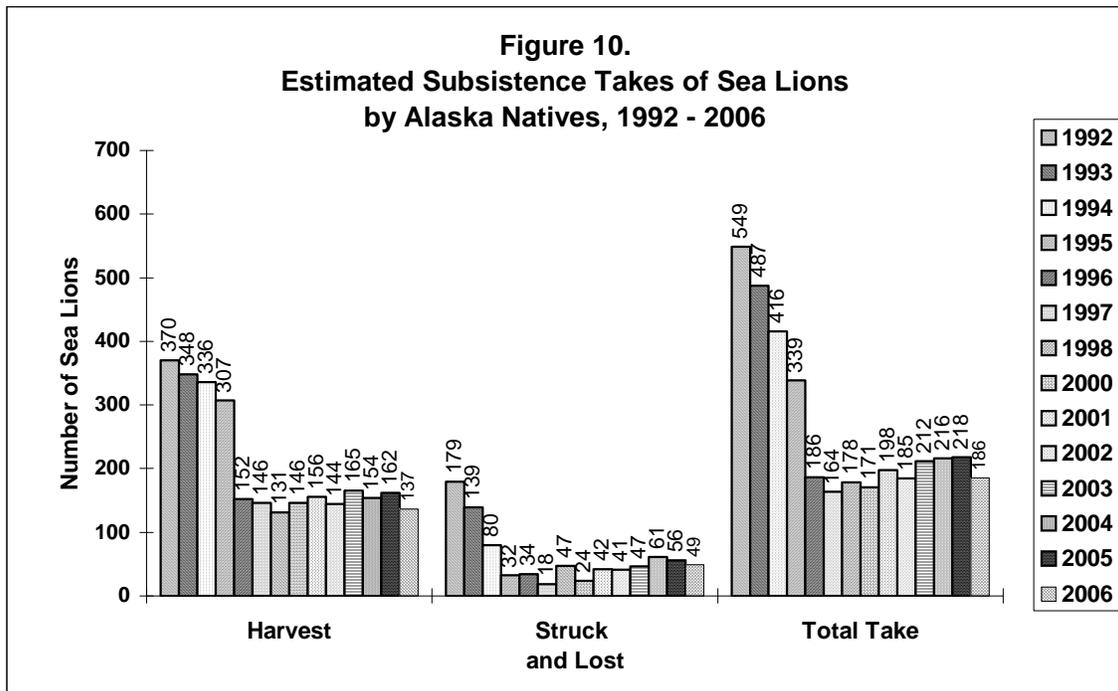
The total take of harbor seals in 2006 (1,644 seals) was 42.4% lower than takes in 1992 (2,854 seals) and 3.0% lower than takes in 2005 (1,696 seals) (Fig. 24). In terms of seasons, the decreasing takes of harbor seals have been occurring across all the major hunting periods (spring and fall-early winter) (see Fig. 5).

Harbor seal populations in Alaska are divided into 3 stocks for biological assessment: the Southeast Alaska stock, the Gulf of Alaska stock, and the Bering Sea stock. Harbor seal takes from the 3 stocks are shown in Fig. 11. Total annual takes from the Southeast Alaska stock showed an overall decline of 57.5% from 1992 to 2006 (from 1,666 to 708 seals). Takes from the Gulf of Alaska stock in 2006 (848 seals) was about 10.3% lower than the take in 1992 (946 seals), rebounding from a low of 688 seals taken in 2002. Takes from the Bering Sea stock have declined from 243 seals in 1992 to 88 seals in 2006, a decrease of about 63.5%. Regional takes are shown in Fig. 12. Annual harbor seal takes show the clearest downward trend in Southeast Alaska. While harbor seal takes in the other regions also appear to be in a downward direction, the trends are less clear than for the Southeast region.

The reasons for declining harbor seal takes are uncertain. Overall, it appears that the decline in harbor seal harvests is associated with fewer seal hunters on a statewide basis (Fig. 8, Table 16). Between-year fluctuations in harvests at the community level are influenced in part by such local conditions as food needs, prey availability, and personal circumstances of hunters. A closer examination of trends in 6 selected communities (Hoonah, Nanwalek, Old Harbor, Sitka, Tatitlek, and Yakutat) allows for us to see the interplay of factors such as the numbers of hunters, hunting success, and harvest rates in particular locations (Figs. 14-19). For example, at Hoonah and Yakutat, 2 major harbor seal hunting communities (Figs. 14 and 15), there have been fewer hunters and lower harvest rates per successful hunter in recent years, resulting in declining numbers of seals harvested. At Sitka (Fig. 16) we found fewer harbor seal hunters, but relatively stable harvest rates per successful hunter in recent

years, except for success rates in 2005. As shown in Fig. 17, seal hunting at Tatitlek rebounded after 2002, which saw the lowest numbers of hunters, harvest rates, and seal harvests since the start of surveys in 1992. At Old Harbor, harvests and hunters in 2006 were at their lowest points since 1992 (Fig. 19). No clear trends are evident in the harvests, hunters, and harvest rates at Nanwalek (Fig. 18). These 6 case communities suggest that a complex of local factors is influencing harvest patterns at the local level.





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

Figure 12. Harbor Seal Take Trends Reported by Alaska Native Hunters by Major Area, 1992 - 2006

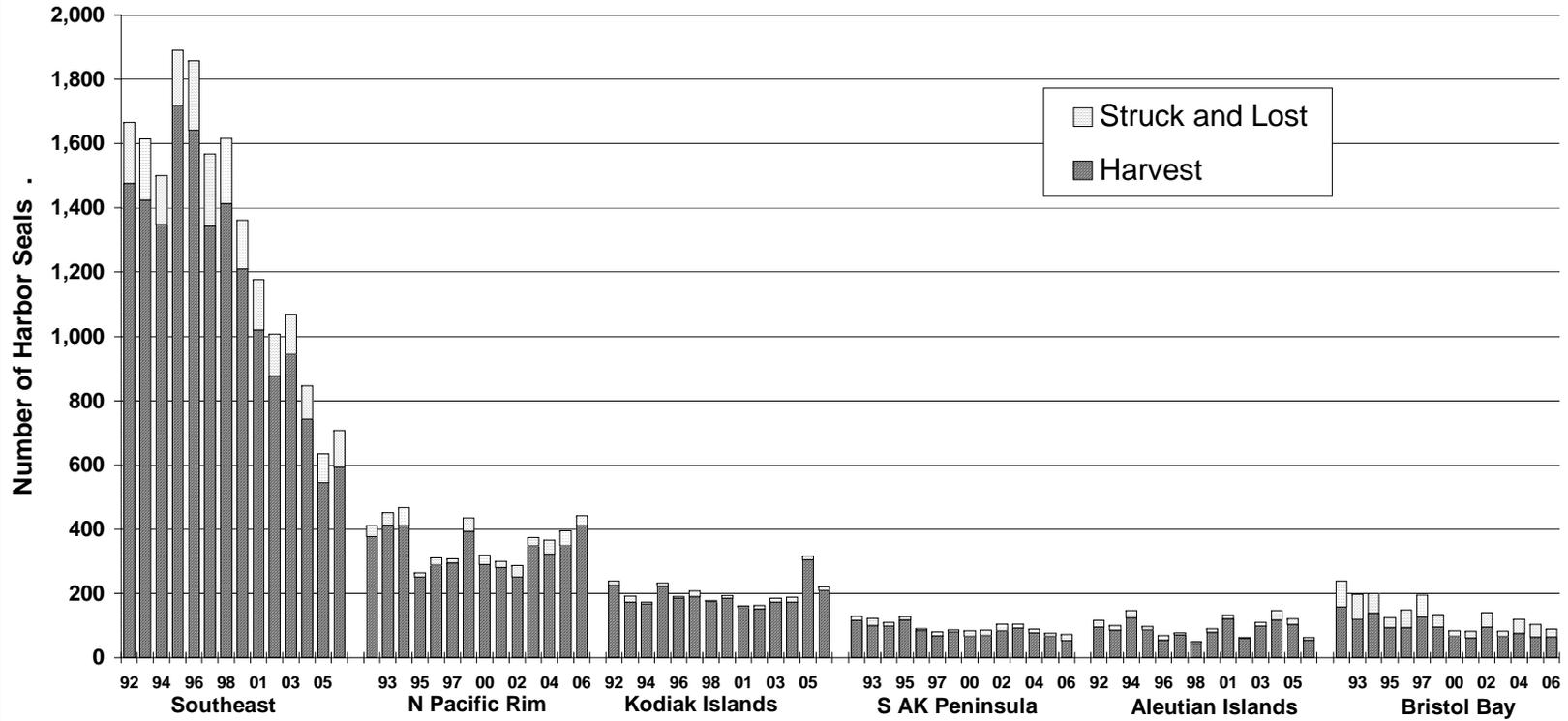


Figure 13. Sea Lion Take Trends Reported by Alaska Native Hunters by Area, 1992 - 2006

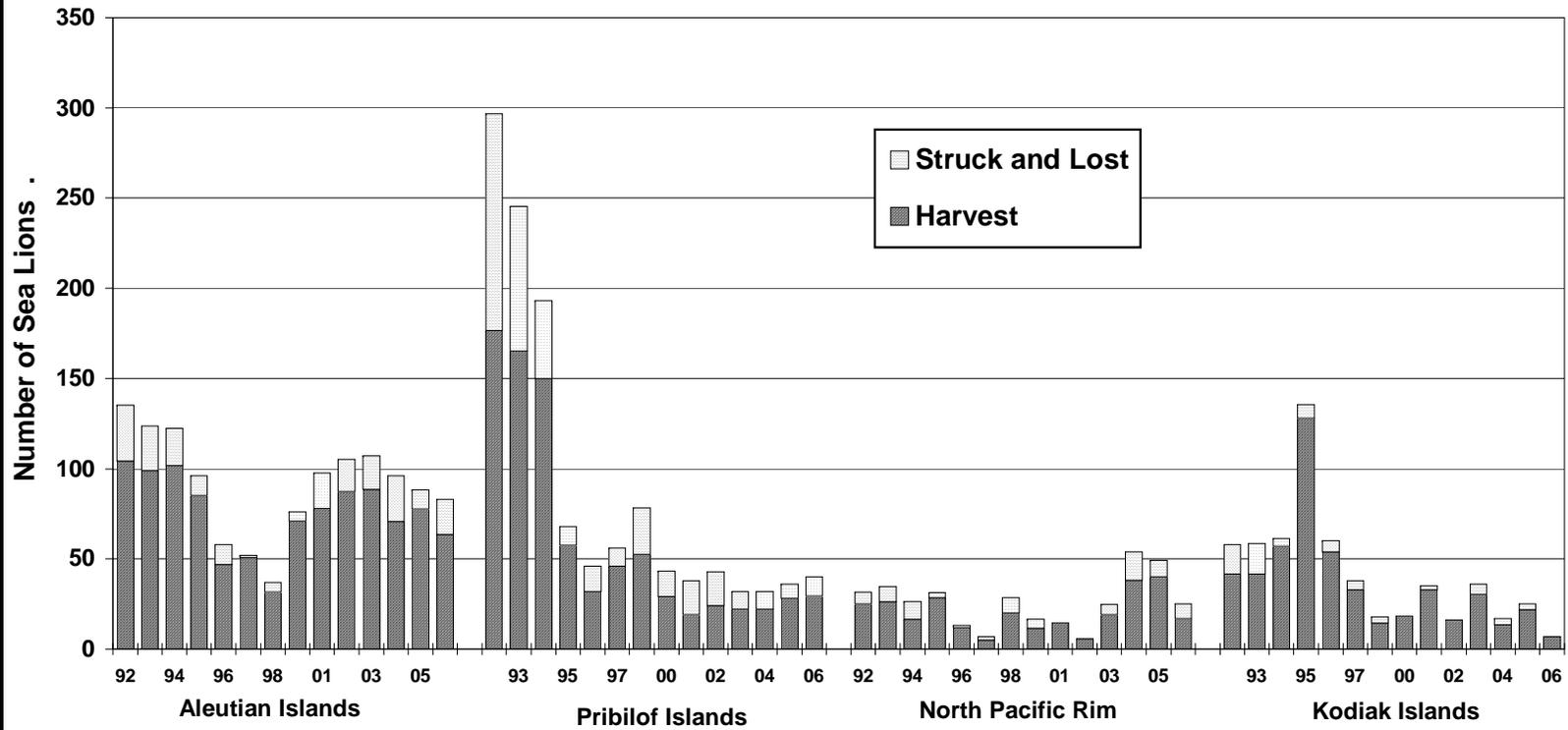


Fig. 14. Harbor Seal Hunters and Success Rates, Hoonah, 1992 - 2006

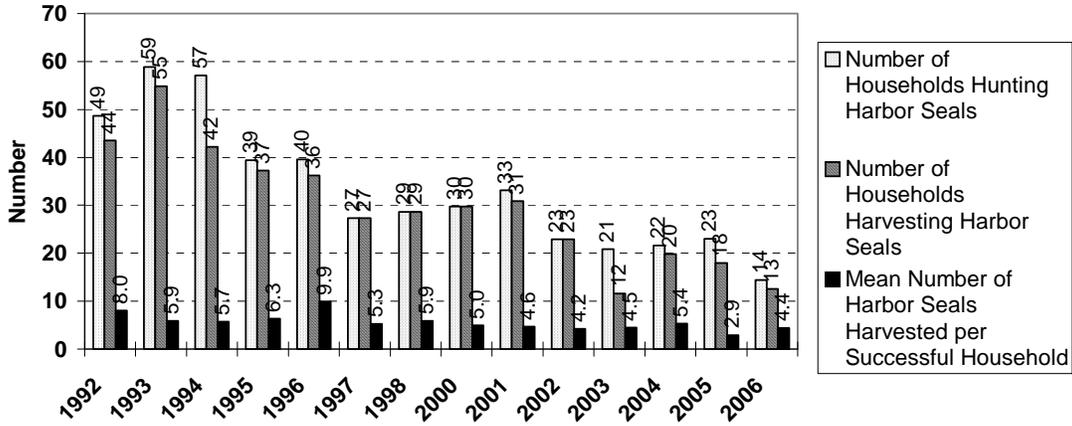


Fig. 15. Harbor Seal Hunters and Success Rates, Yakutat, 1992 - 2006

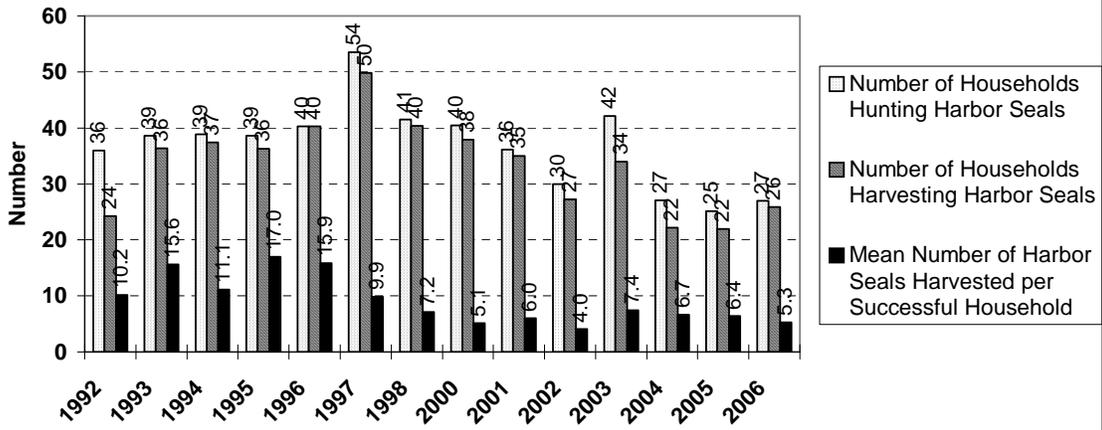


Fig. 16. Harbor Seal Hunters and Success Rates, Sitka, 1992 - 2006

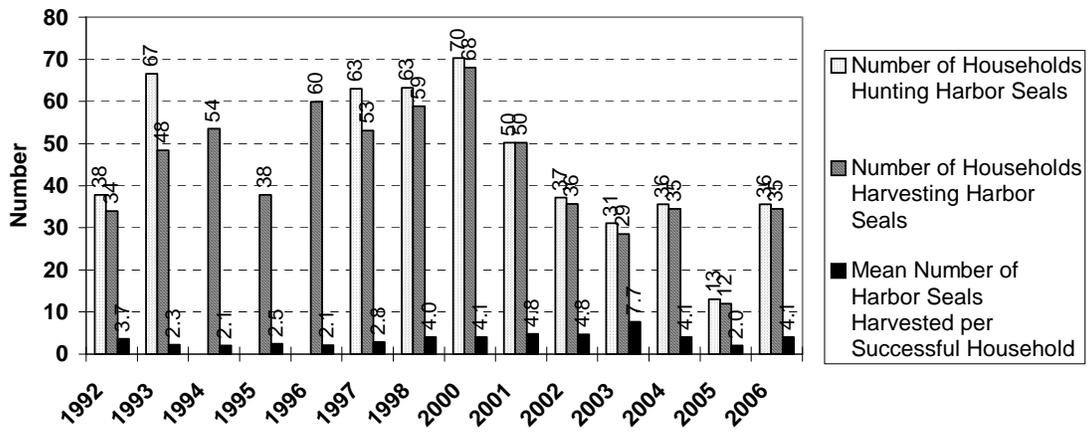


Fig. 17. Harbor Seal Hunters and Success Rates, Tatitlek, 1992 - 2006

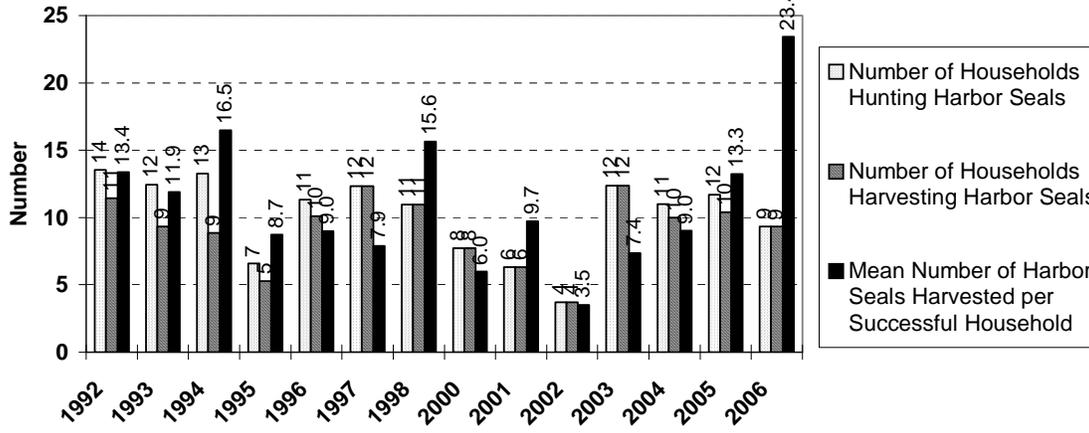


Fig. 18. Harbor Seal Hunters and Success Rates, Nanwalek, 1992 - 2006

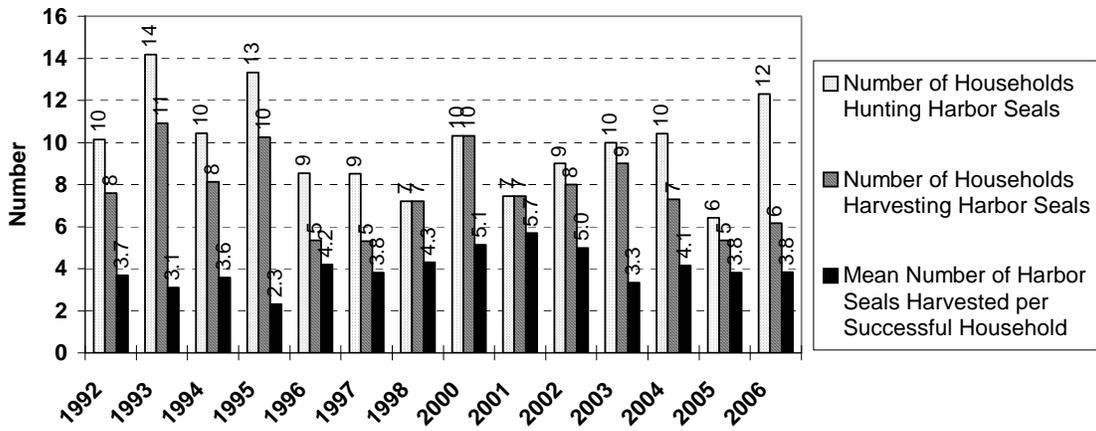
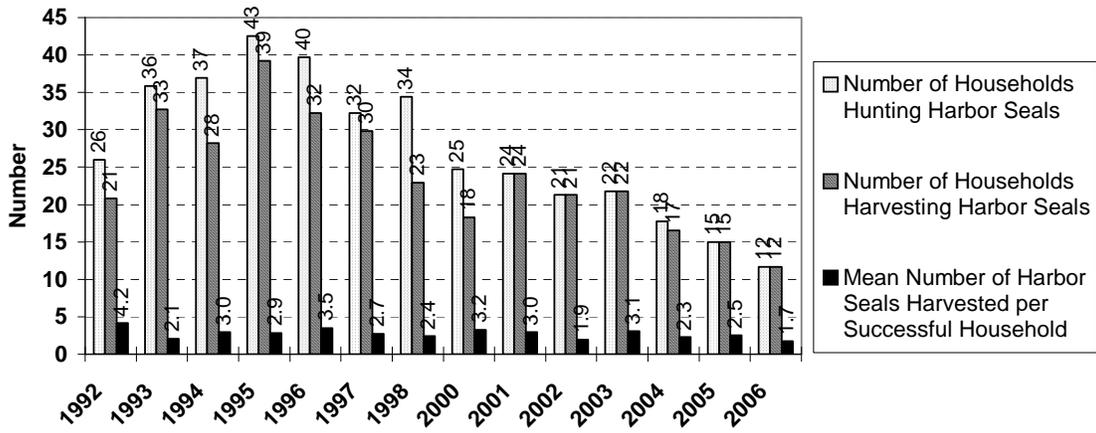


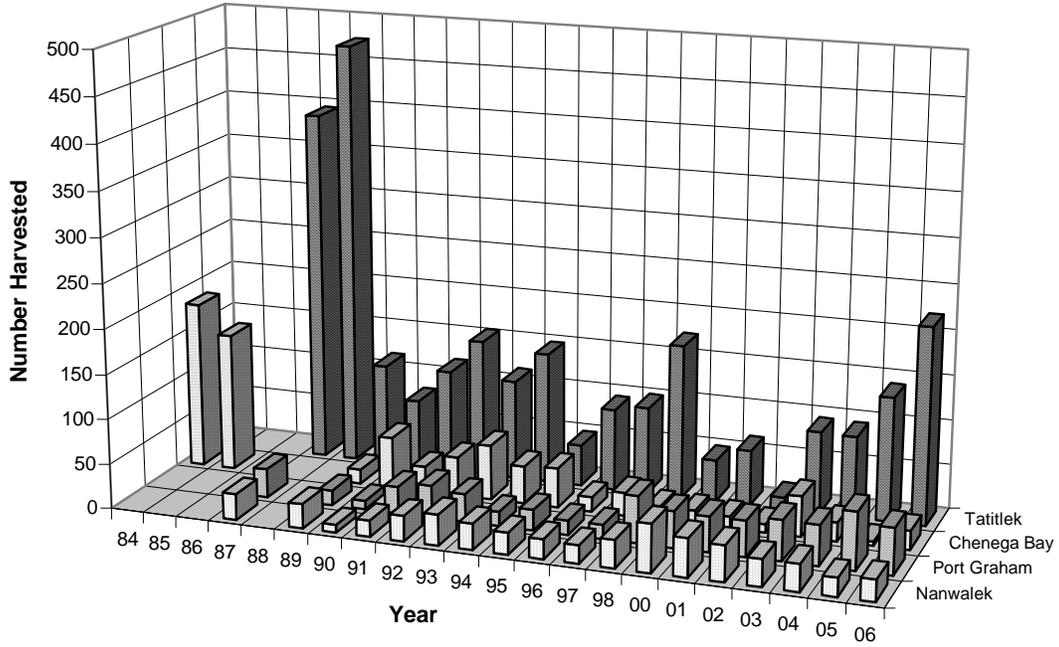
Fig. 19. Harbor Seal Hunters and Success Rates, Old Harbor, 1992 - 2006



For harvests in 2 regions, the North Pacific Rim and Kodiak Island, a longer time series is available, shown as Figures 20 and 22 (struck and lost numbers are not available prior to 1992, so these figures compare only harvest numbers). In the North Pacific Rim, subsistence harvests of harbor seals have been substantially lower during the most recent 10-year survey period compared with harvests recorded prior to 1989, the year of the Exxon Valdez oil spill (Fig. 20). Families in Prince William Sound reduced their subsistence activities the year of the spill because of the uncertainties of the health and safety of consuming wild foods harvested from oiled areas. Subsistence harvest levels showed signs of some recovery since the spill, particularly in Nanwalek and Port Graham along Lower Cook Inlet. The 2006 survey at Tatitlek (219 seals) in Prince William Sound recorded a rebound from 2002, the poorest seal harvest on record in this community (13 seals). The other 3 communities had mid-range seal harvests in 2006. For Kodiak Island villages, the 199 seals harvested in 2006 were substantially fewer than those recorded a decade before (478 seals in 1982) (Fig. 22). In this area, harbor seal harvests appear to have been in decline during the 1980s, followed by increases again during the 1990s at Old Harbor and Ouzinkie. In other Kodiak Island communities, harvests have remained low and variable during the 1990s.

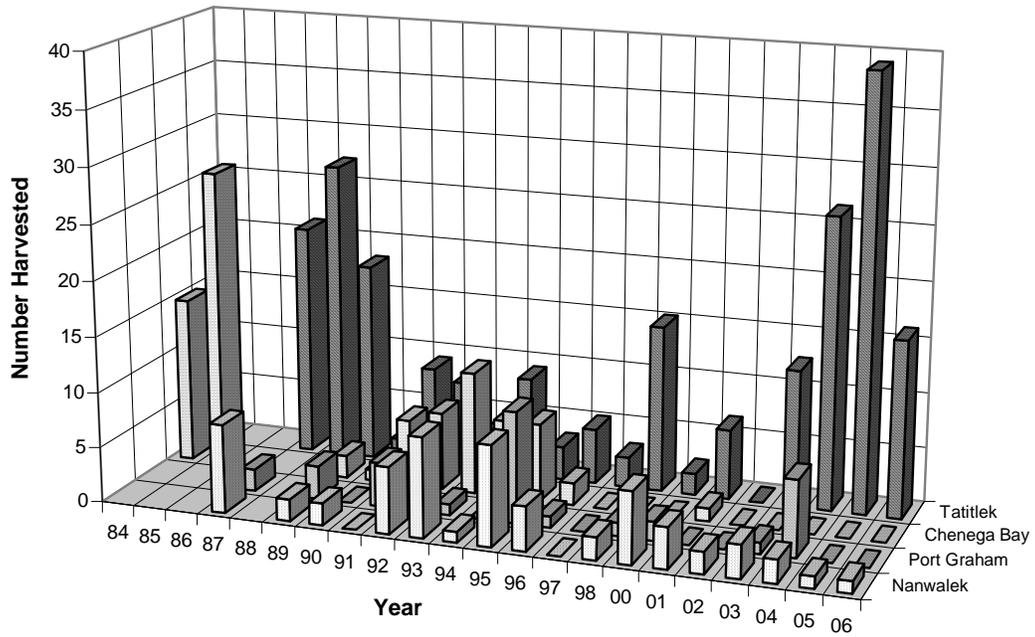
The longer time series represented by the North Pacific Rim and Kodiak Island areas provide a cautionary note about interpreting trends in subsistence patterns described since 1992, the start of the most recent survey series. Reported harbor seal harvests were substantially higher a decade earlier in the North Pacific Rim and Kodiak Island areas. The pattern of use documented for 1992–2006 in those areas may represent observations at relatively low points of longer-term harvest cycles. The longer time series above may better represent the potential ranges of subsistence takes in these areas. Should resource population conditions return to those during the 1980s, subsistence harvests of harbor seals might increase as well.

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



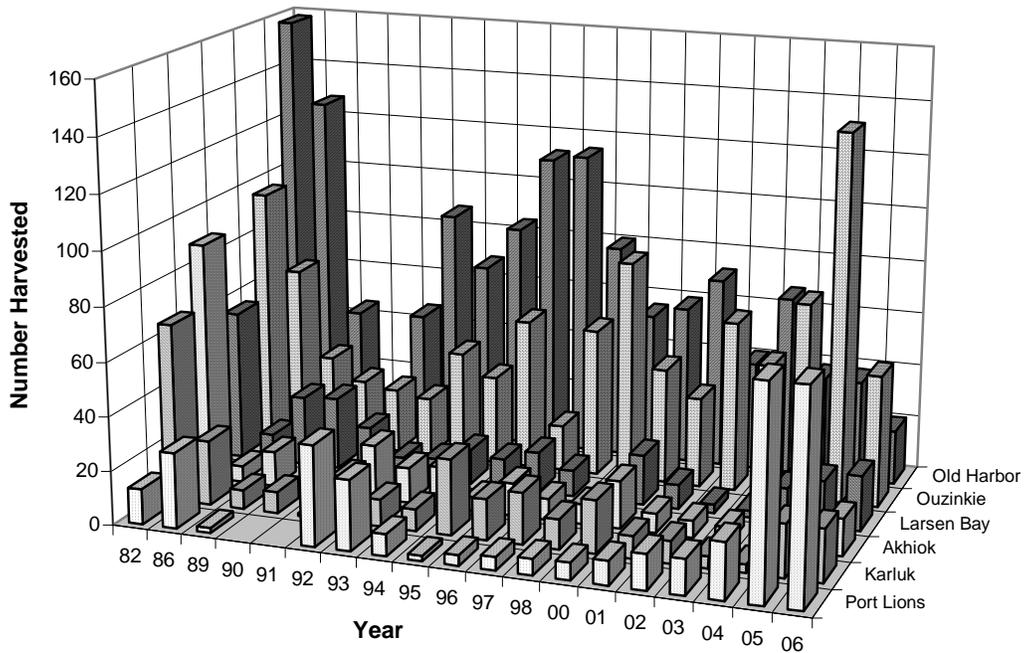
HARBOR SEAL HARVESTS				
Year	Nanwalek	Port Graham	Chenega Bay	Tatitlek
84			186	
85			154	
86				
87	29	32		393
88				473
89	27	17	16	113
90	9	10	57	76
91	18	30	28	114
92	28	36	43	153
93	34	31	61	111
94	29	16	42	146
95	24	23	44	46
96	22	16	16	91
97	20	16	26	97
98	31	52	16	171
00	53	40	15	46
01	42	39	13	62
02	40	39	9	13
03	30	45	45	91
04	30	44	21	90
05	20	63	5	138
06	24	51	21	219

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



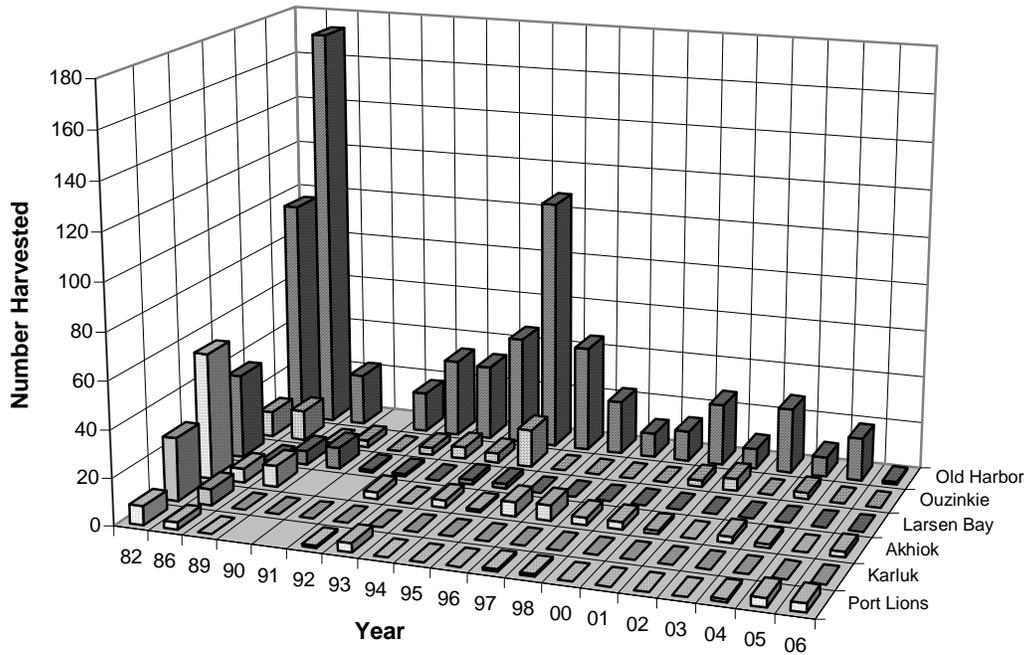
SEA LION HARVESTS				
Year	Nanwalek	Port Graham	Chenega Bay	Tatitlek
84			15	
85			27	
86				
87	8	2		21
88				27
89	2	3	2	18
90	2	0	1	2
91	0	4	6	9
92	6	4	7	8
93	9	1	11	4
94	1	0	7	9
95	9	10	7	3
96	4	1	2	5
97	0	0	0	3
98	2	1	0	15
00	6	2	0	2
01	4	0	1	6
02	2	0	0	0
03	3	1	0	12
04	2	7	0	26
05	1	0	0	39
06	1	0	0	16

Figure 22
Change in Harbor Seal Harvests,
Kodiak Island Communities



HARBOR SEAL HARVESTS						
	Port Lions	Karluk	Akhiok	Larsen Bay	Ouzinkie	Old Harbor
82	13	66	89	56	96	158
86	28	24	6	10	67	127
89	2	7	13	26	34	45
90		8		27	26	
91		1		17	24	46
92	37	17	20	7	22	87
93	26	10	13	8	41	68
94	8	8	15	13	33	84
95	2	28	5	11	56	112
96	4	15	12	15	17	114
97	5	19	8	10	55	80
98	6	11	7	2	82	55
00	6	20	18	19	43	59
01	9	8	7	9	33	71
02	13	8	6	3	63	40
03	13	4	5	3	49	67
04	21	3	4	13	73	38
05	77	19	7	17	137	38
06	77	19	14	20	49	20

Figure 23
Change in Sea Lion Harvests,
Kodiak Island Communities



SEA LION HARVESTS						
	Port Lions	Karluk	Akhiok	Larsen Bay	Ouzinkie	Old Harbor
82	8	27	54	36	11	96
86	3	7	6	0	13	173
89	0	0	9	6	0	22
90		0		9	3	
91		0		1	0	17
92	1	0	3	1	3	33
93	4	0	0	0	5	32
94	0	0	3	2	4	46
95	0	0	1	2	16	107
96	0	0	6	0	0	45
97	1	0	7	0	0	23
98	1	0	3	0	0	10
00	0	0	3	0	0	13
01	0	0	1	0	3	26
02	0	0	0	0	5	9
03	0	0	3	0	0	28
04	1	0	1	0	3	8
05	4	0	0	0	0	18
06	4	0	2	0	0	1

Figure 24.
Percentage Annual Changes in Harvest, Struck and Lost, and
Total Take, Harbor Seals, 1992 - 2006

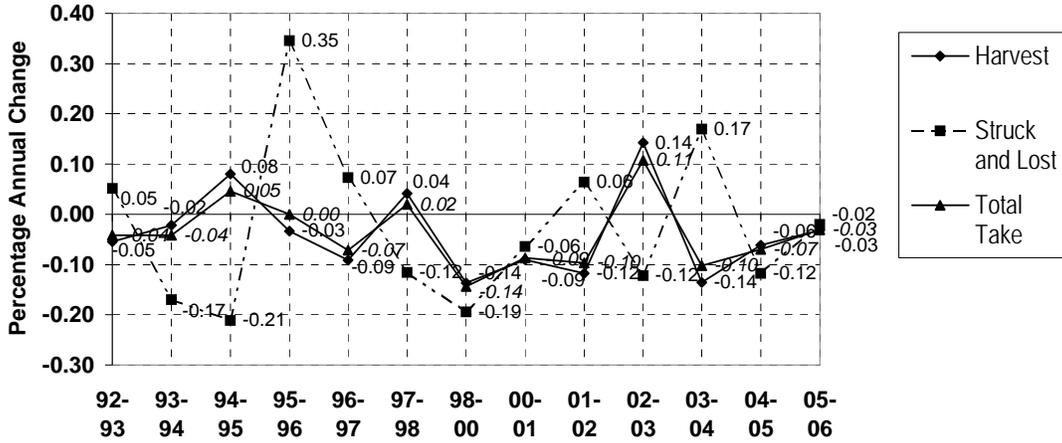
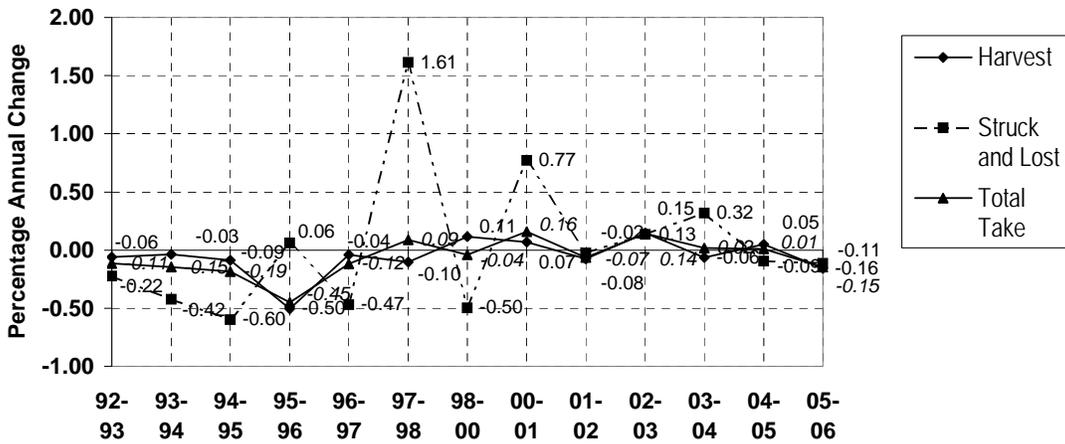


Figure 25.
Percentage Annual Changes in Harvest, Struck and Lost, and
Total Take, Sea Lions, 1992 - 2006



In contrast with the declining takes of harbor seals from 1992 to 2006, there has been remarkable consistency in the reported age and sex composition of the statewide harbor seal harvest. Figures 26 and 27 compare statewide patterns in the age and sex composition of the subsistence harvests of harbor seals since 1992. At the statewide level, hunters consistently have reported harvesting more male than female harbor seals each year. Considering kills of known sex for harbor seals, male-to-female sex ratios have been similar across survey years 1992–2005, ranging from 2.0 to 2.6 males to one female. The ratio of 3.3 males to one female in 2006 was a substantial increase from previous years (Fig. 26). At the statewide level, age composition has been similar between years (Fig. 27): hunters continued to report harvesting primarily adult harbor seals (77%–85% of the annual harvest), with smaller proportions of juvenile seals (10%–22%) and pups (1%–5%).

Figures 28 and 29 compare age and sex compositions of harbor seal harvests at the regional level. There is considerable similarity between regions and years for harbor seal sex composition (Fig. 28). Counting harvested animals whose sex was reported between 1992 and 2006, all regions showed more male seals to female seals harvested: Southeast (68% males), North Pacific Rim (70% males), Kodiak Island (74% males), South Alaska Peninsula (77% males), Aleutian Islands (71% males), and North and South Bristol Bay (71% males). A number of factors probably contribute to the predominance of males over females in the subsistence harvest of harbor seals across regions and years, as discussed in Wolfe and Mishler (1998). The higher number of males harvested likely reflects the greater availability of males in the groups of animals hunted due to 2 factors: sex segregation in seal groups, and female seals being more elusive than male seals when disturbed in a group, presenting comparatively fewer or more difficult targets (see Wolfe and Mishler 1998:60-61; Wolfe et al 1999).

The age composition of the subsistence harvest of harbor seals varies substantially between regions and presents a more complex picture than sex ratios (Fig.

29). Since 1992, hunters have been asked to classify the seal harvest into 3 categories: “pups,” “juveniles,” and “adults.” Probably most hunters answer this question using size and behavior as main indicators, so that the smallest seals with their mothers are classified as “pups,” small-sized seals are classified as “juveniles,” and medium-to-large seals are classified as “adults.” The hunters’ category of “juveniles” probably primarily includes yearlings (6–17.9 months), which are about 30% of adult weight, and perhaps include some 2-year-old seals (18–29.9 months) and 3-year-old seals (30–41.9 months), which have gained on average about 50% of adult weight (Bigg 1969:21; Pitcher and Caulkins 1979:30).

Based on hunter reports, the percentages of juveniles in the harvest differed substantially between regions during 1992–2006 (Fig. 29). Of all the seals harvested during 1992–2006 in the Southeast Region, only 10% were reported to be juvenile seals. Bristol Bay seal harvests also had a relatively low juvenile composition of 16%. Other regions had greater proportions of juvenile seals in their annual harvests, including South Alaska Peninsula (22%), Kodiak Islands (24%), North Pacific Rim (28%), and the Aleutian Islands (40%). These age patterns possibly reflect differences in the age compositions of seal populations accessible to hunters, perhaps due to different population structures in each region. The older ages of harvested seals in the Southeast region may reflect relatively larger and more stable seal populations with proportionately larger older age classes in the population, while the younger ages of seals harvested in other regions may reflect populations which are rebuilding, with proportionately larger young age classes.

As shown in Fig. 29, the reported age compositions of the seal harvests have seen substantial between-year changes for some regions. In recent years, the proportions of juvenile seals have fallen substantially in the Kodiak Islands. In the Southeast region, the proportion of juvenile harvests has been increasing, from 7% (2002) to 21% (2006). In the North Pacific Rim and Aleutian Islands, the juvenile

proportions fell markedly in 1998, but rose again in 2000 to the relatively higher levels of previous years.

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

Figure 26.
Sex Ratios (Males:Females)
of Harbor Seal and Sea Lion Harvests
Reported by Alaska Native Hunters, 1992 - 2006

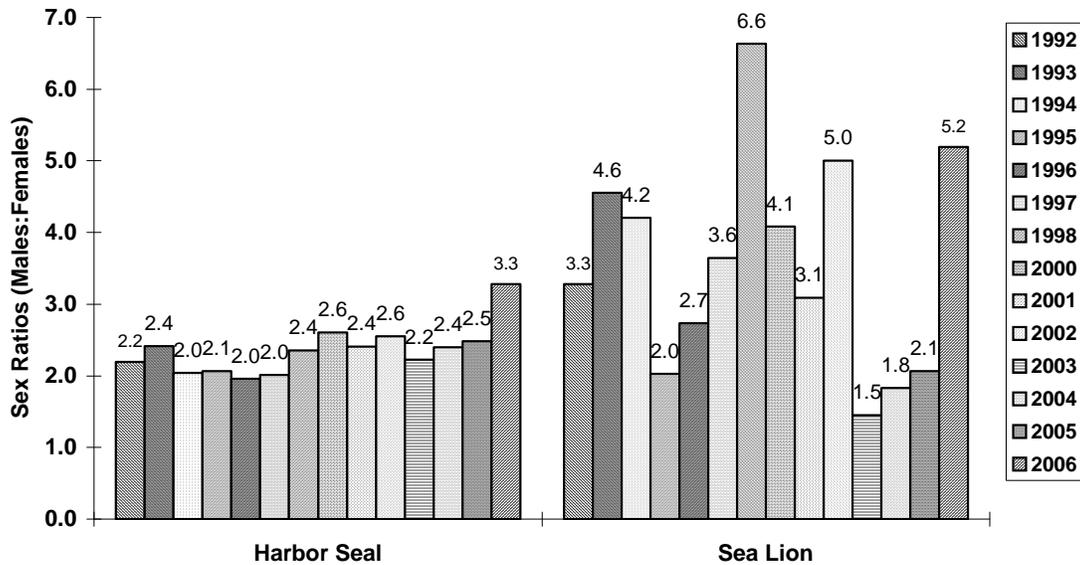


Figure 27.
Age Structure (Pups, Juveniles, Adults)
of Harbor Seal and Sea Lion Harvests
Reported by Alaska Native Hunters, 1992 - 2006

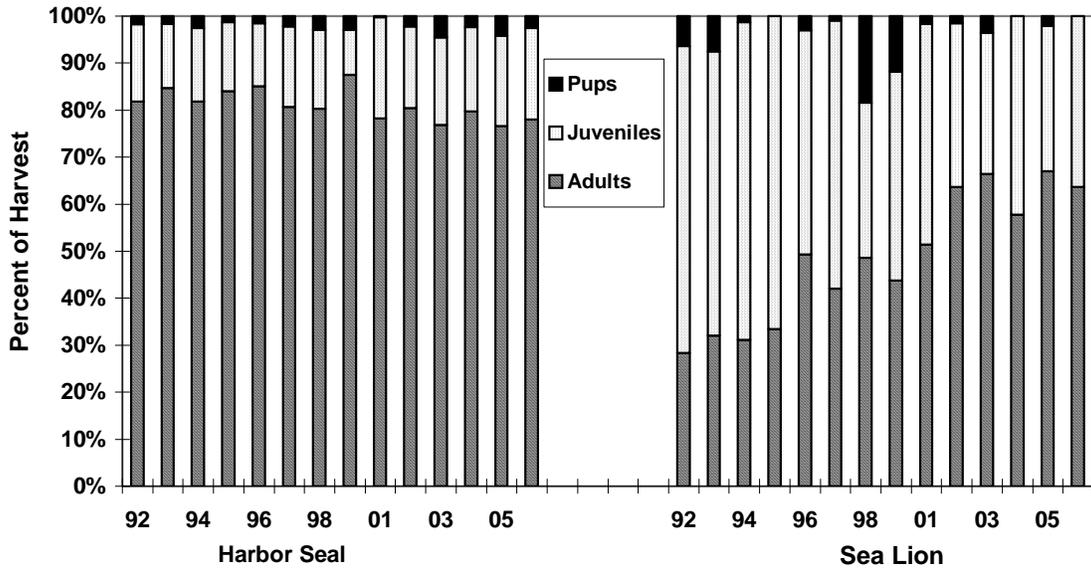


Figure 28. Percentage of Harbor Seal Harvests Reported as Male Seals by Hunters, 1992 - 2006

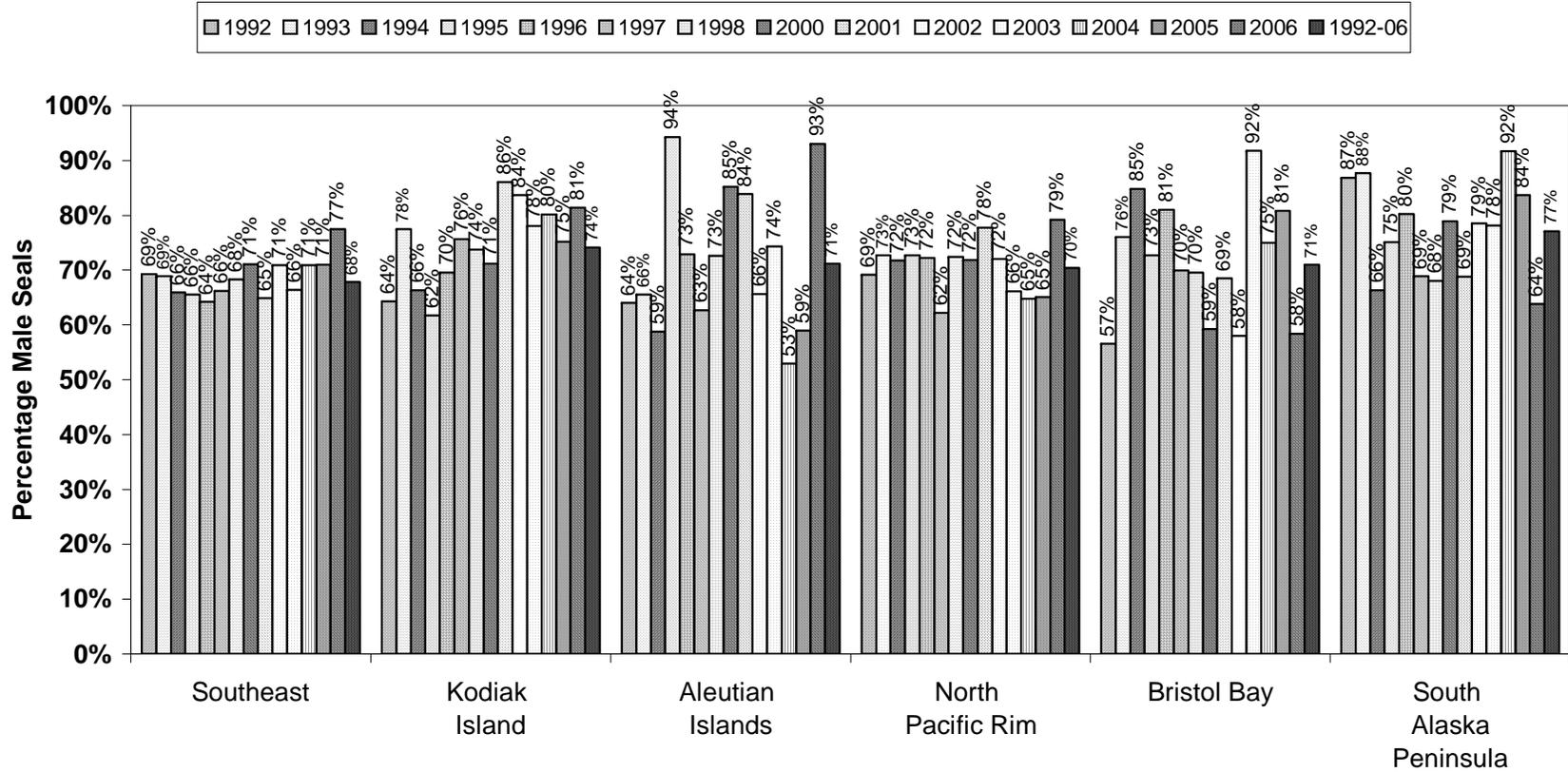
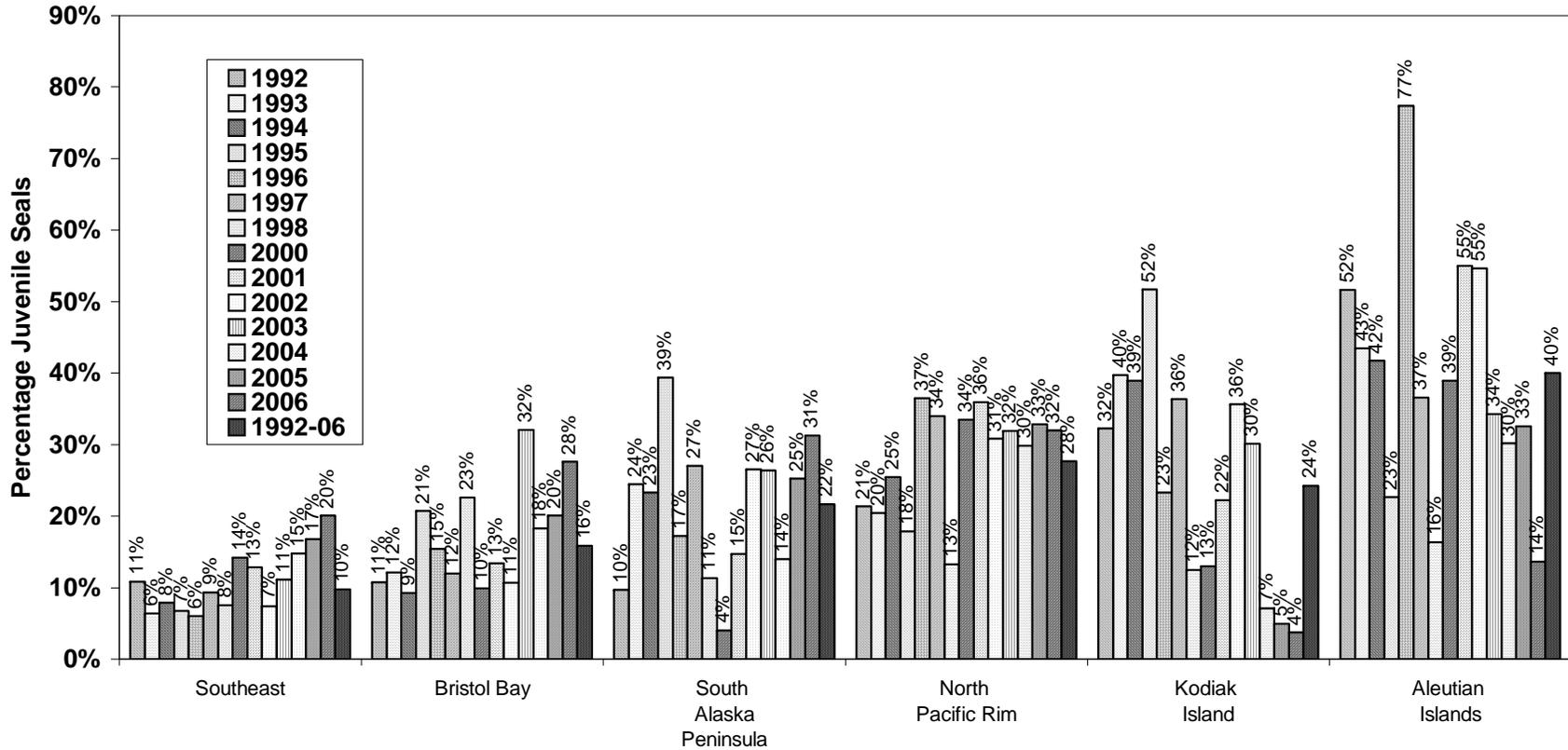


Figure 29. Percentage of Harbor Seal Harvests Reported as Juvenile Seals by Hunters, 1992 - 2006



It is beyond the scope of this research to test for the likelihood of these or other potential explanations. However, the changes in age composition over time in 3 regions are illustrated in Figures 30 to 32, which present adult and juvenile harbor seal harvests by month from January 1992 to December 2006 for the Southeast, Kodiak Island, and North Pacific Rim regions (no data are available for 1999). This time series does not arbitrarily divide years between December 31 and January 1, as in Fig. 29, but allows for a combination of the calendar years to better visualize trends. A comparison of the Southeast harvest (Fig. 30) with the Kodiak harvest (Fig. 31) clearly illustrates the difference in the proportion of juveniles in the harvests: in Southeast Alaska, juveniles show more consistency as a low part of the harvest, compared with Kodiak Island, where as many juveniles are taken as adults in some years. The Kodiak Island harvest time series (Fig. 31) shows relatively low juvenile harvests relative to adults for certain time periods: July 1996–June 1997, November 1997–December 1998, January 2000–December 2000, and July 2004–December 2006. In the neighboring North Pacific Rim (see Fig. 31), juvenile harvests were high relative to adults in July 1996–1997, low from January 1998 to December, and high from January to October 2000. In the Southeast series, the proportion of juveniles, while low, has been increasing since about 2000 (see Fig. 29). Such complex patterning of the age composition of harbor seal harvests may be related to annual changes in seal productivity and age class structures in local seal populations.

Fig. 30. Adult and Juvenile Harbor Seal Harvests by Month, January 1992 - December 2006, Southeast Alaska

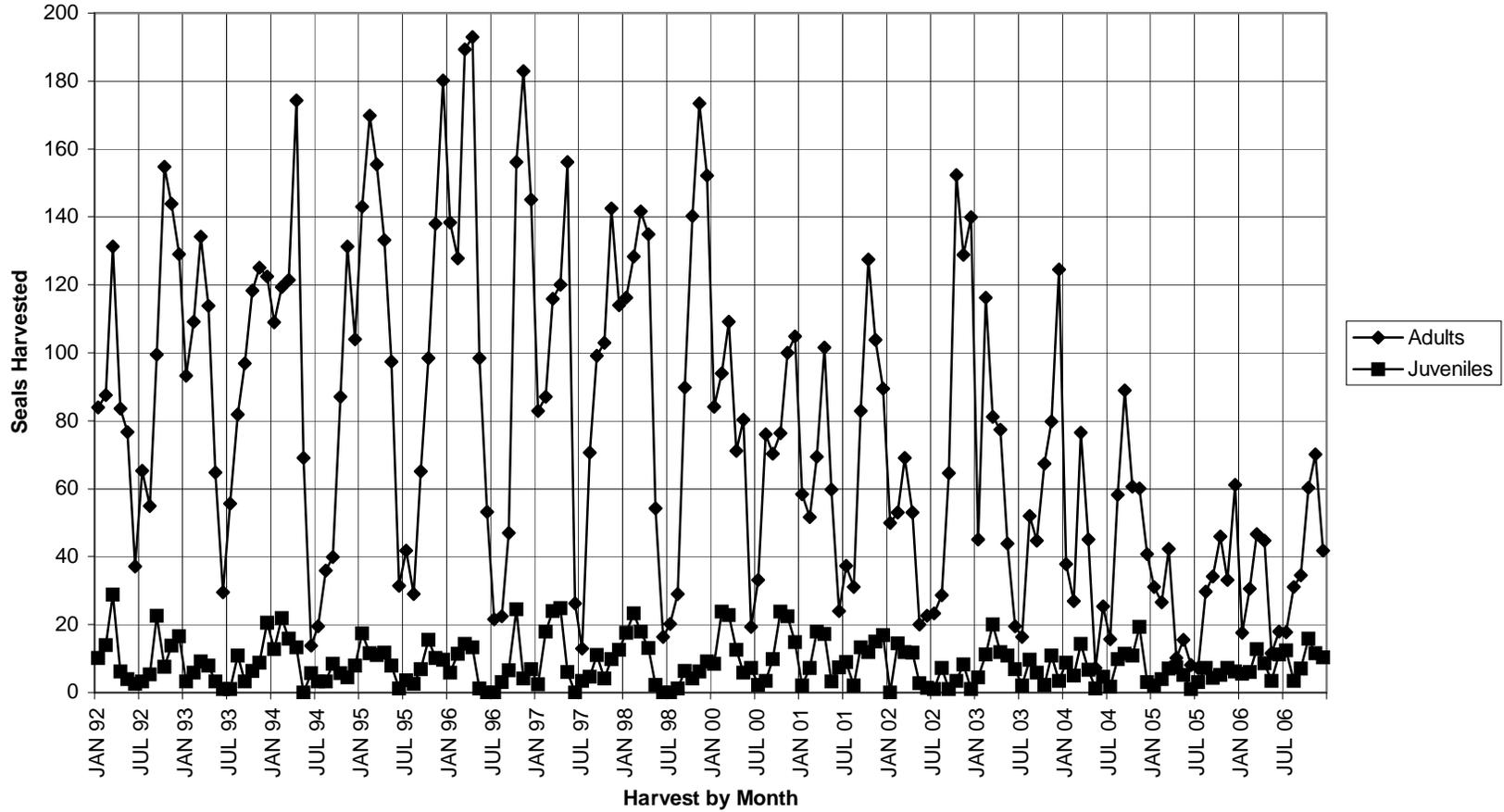


Fig. 31. Adult and Juvenile Harbor Seal Harvests by Month, January 1992 - December 2006, Kodiak Island Region

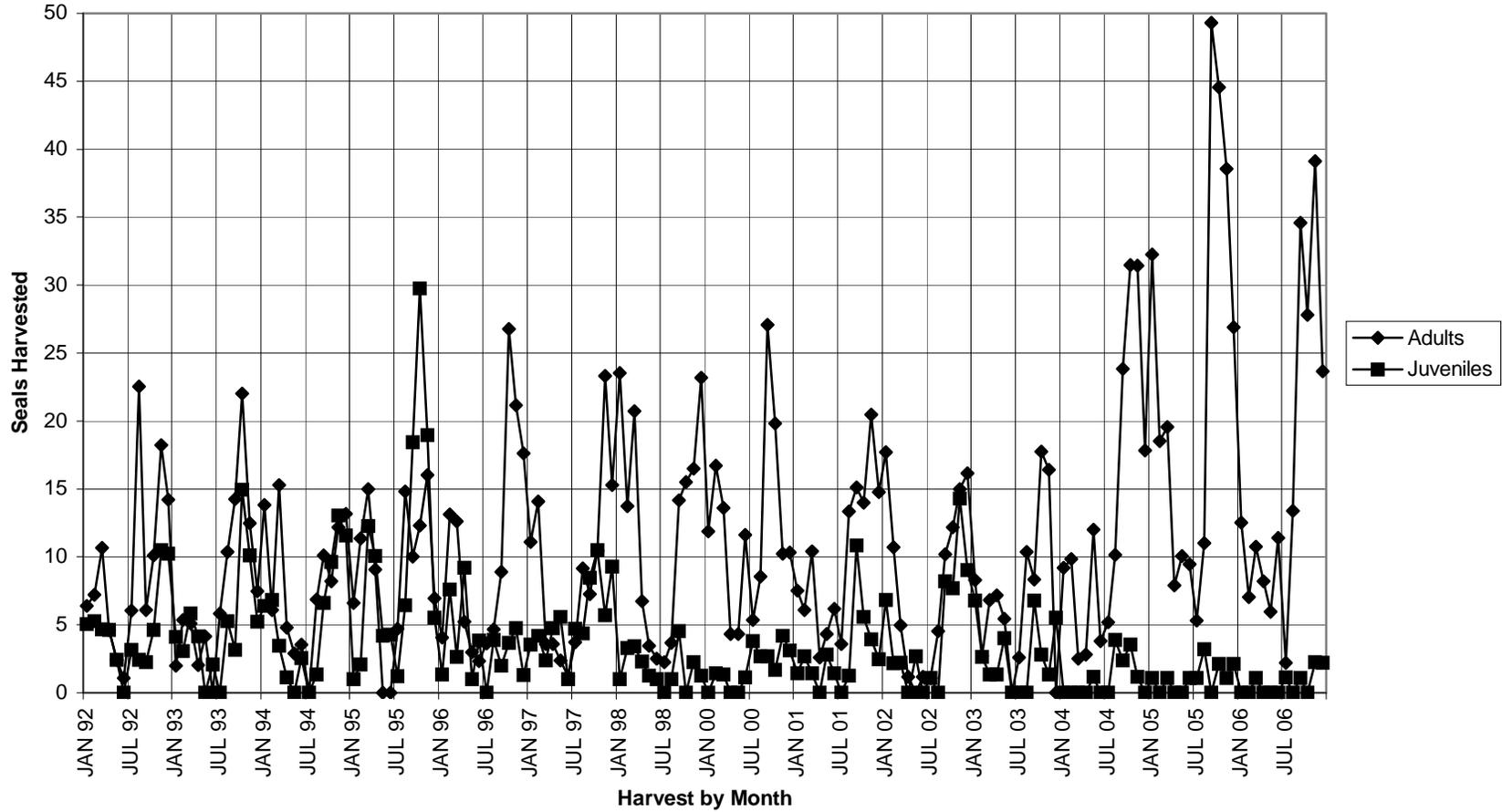
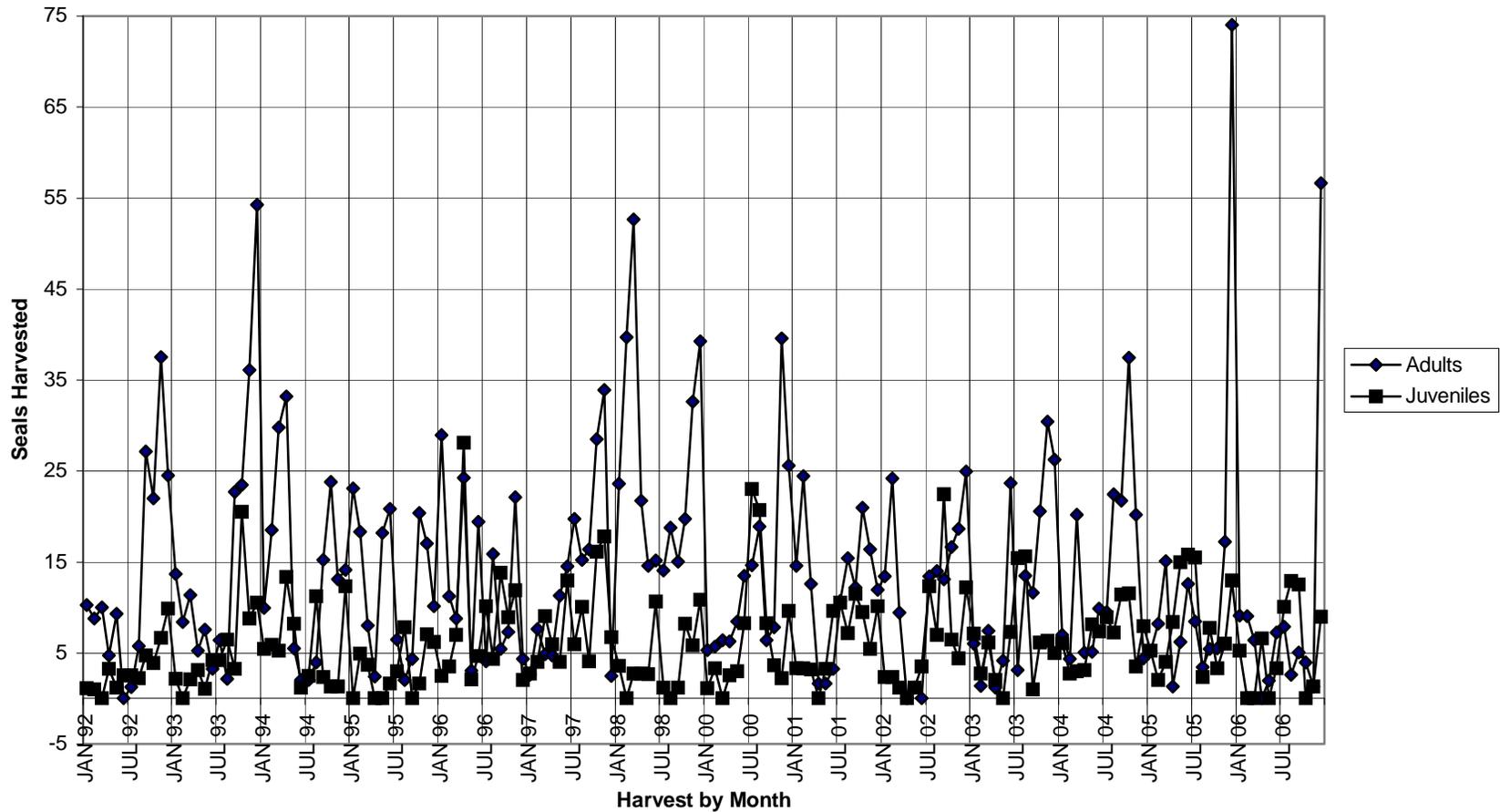


Fig. 32. Adult and Juvenile Harbor Seal Harvests by Month, January 1992 - December 2006, North Pacific Rim Region



Sea Lion Subsistence Trends, 1992–2006

Total subsistence takes of sea lions by Alaska Natives sharply declined from 1992 to 1995, with takes leveling off between 1996 and 2006 (Fig 10). The lowest recorded sea lion takes (164 animals) occurred in 1997. The subsistence take of 186 sea lions in 2006 was 34% of the subsistence take in 1992 (549 animals).

At the regional level, the total of 40 sea lions reported taken by hunters on the Pribilof Islands was similar to the average take since 1996 (44 sea lions), though substantially fewer than reported in 1992 (297 animals) (Fig. 13). The sea lion take in the Aleutian Islands area increased to 83 animals in 2006 from a low of 37 animals in 1998, but was below the total of 135 animals taken in 1992. In Kodiak Island areas, the sea lion take in 2006 (7 animals) was the lowest recorded since surveys began in 1992 (Fig. 13).

In the North Pacific Rim and Kodiak Island regions, longer time series are available (see Figs. 21 and 23). Documented sea lion harvests in Tatitlek and Chenega Bay ranged as high as 27 animals in each place during the 1980s. In 2006, no sea lions were reported harvested in Chenega Bay, while 16 were harvested at Tatitlek (Fig. 21). Harvests at Nanwalek and Port Graham show substantial yearly variation (from one to 19 animals). Only one sea lion was harvested between the 2 communities in 2006. On Kodiak Island, sea lion harvests declined substantially during the 1980s – 232 (1982), 202 (1986) and 37 (1989) – but rebounded again to 126 in 1995 because of increased harvests at Old Harbor and Ouzinkie. Kodiak Island harvests were 7 sea lions in 2006, with none reported for 3 of 6 villages (Fig. 23). The longer time series indicate that sea lion harvests have been declining in the North Pacific Rim and Kodiak Island areas, with the declines commencing during the 1980s for Kodiak Island communities.

Declines in sea lion takes documented over the last 7 years appear to be associated with drops in hunter numbers, as illustrated in Fig. 8. Sea lion hunters (excluding St. Paul) fell from a 5-year average of 131 hunters (1992–1996) to 57 hunters

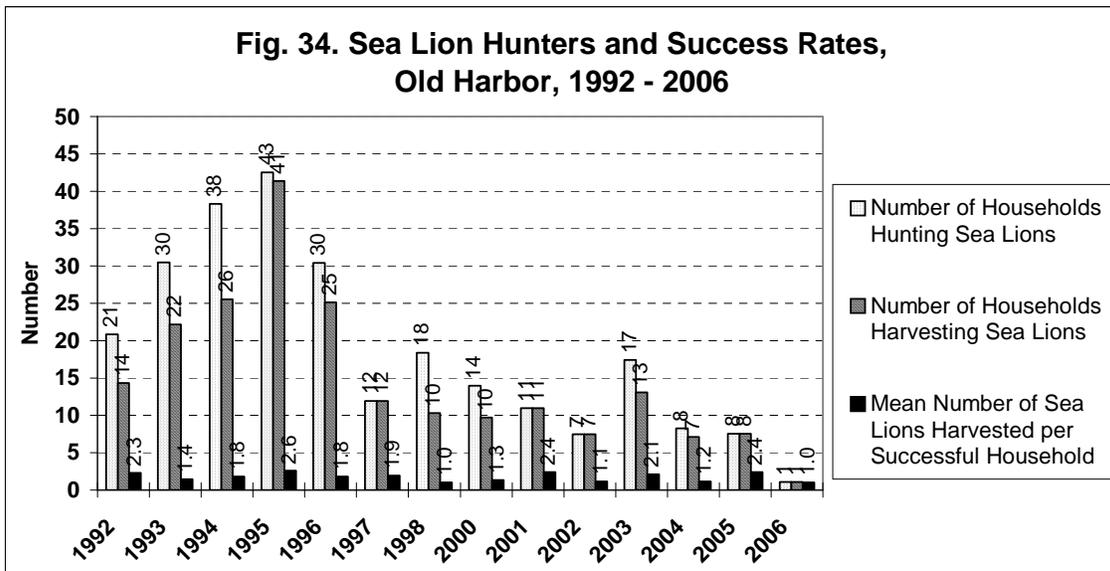
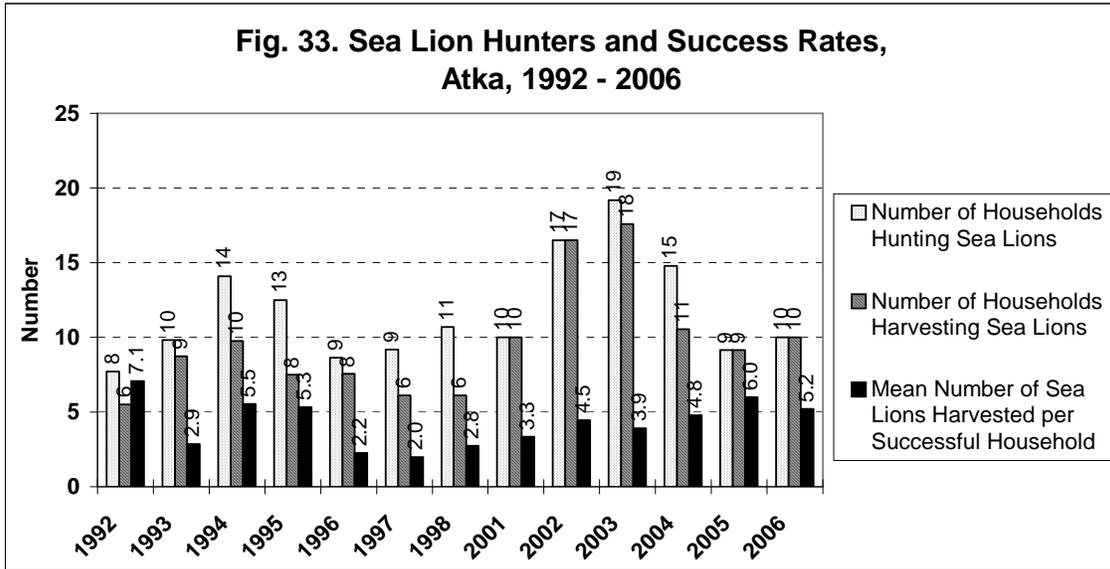
(2006). The number of successful sea lion hunters fell from a 5-year average of 84 hunters (1992–1996) to 51 hunters (2006). However, the success rate of those hunters (89%) was an all time high (Table 16). As with seal hunting, there are probably a variety of local factors related to the year-to-year changes in the number of households hunting sea lions in particular communities, including seasonal hunting conditions, local food needs, and personal circumstances of hunters.

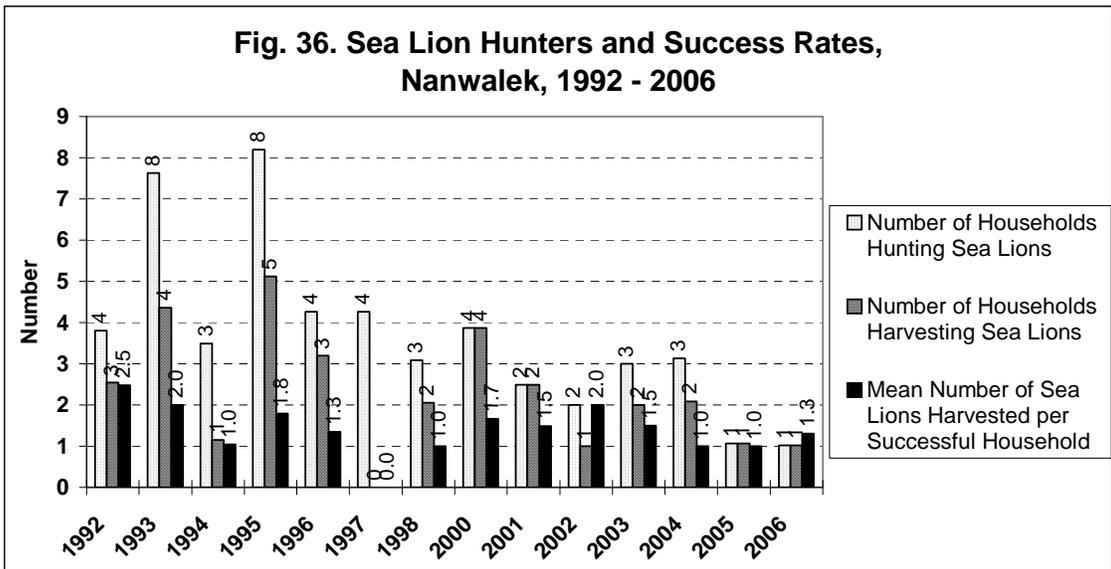
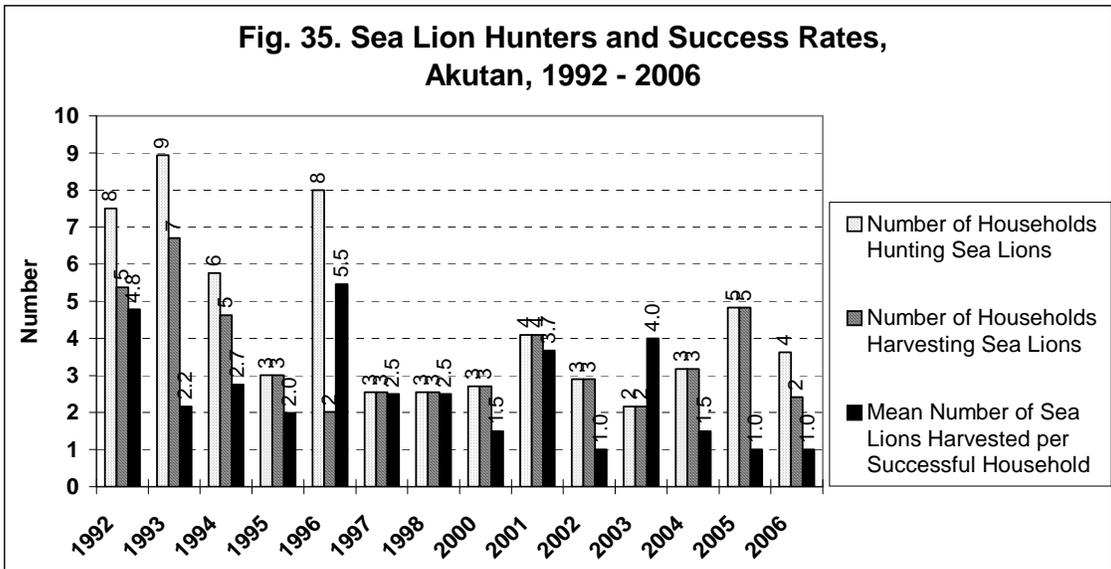
Figure 33 illustrates trends at Atka, one of the few communities in the state reporting increased sea lion harvests in recent years. As shown in Fig. 33, the numbers of households hunting sea lions at Atka increased from 8 to 19 households from 1992 to 2003, and the numbers of households successfully harvesting sea lions increased from 6 to 18 households. The number of hunting households then fell to 10 households in 2006. Success rates for households show no clear trends: since 1992, annual mean harvests per household have ranged from 2.0 to 7.1 sea lions per successful hunter at Atka. Recent sea lion harvests of 55 animals in 2005 and 52 animals in 2006 were greater than the 5-year average of 28 animals reported during 1994–1998.

Hunting patterns at Old Harbor display somewhat different trends (Fig. 34). At Old Harbor, there were increasing numbers of households hunting sea lions from 1992 to 1995 (from 21 households to 43 households), followed by a decrease to 12 households by 1997. In 2006 there was one successful sea lion hunter at Old Harbor, harvesting one animal. Harvest rates per successful hunter have ranged from 1.0 to 2.6 animals since 1992.

At Akutan, the numbers of households successfully harvesting sea lions have ranged between 2 and 7 since 1992 (Fig. 35). Mean harvests per successful hunter have ranged from 1.0 to 5.5 sea lions. Sea lion harvests in 2006 (2 animals) and success rates (1.0 animals per successful hunter) were the lowest on record. At Nanwalek, the numbers of households successfully harvesting sea lions have ranged between one and 5 since 1992 (Fig. 36). Mean harvests per successful hunter have

ranged from 1.0 to 2.5 sea lions. In 2006, sea lion harvests and success rates were in the low range at Nanwalek.





Declines in the numbers of sea lion hunters occurred at a time when hunters reported that sea lions were increasingly harder to find in local hunting areas and consequently more difficult and expensive to hunt. As shown in Table 18, 67.3% of the Aleutian Island hunters and 55.3% of Kodiak Island hunters reported taking “more time and effort” in hunting sea lions in 2000 compared with 1995–1999. As sea lions became scarcer in a community’s hunting area, a number of hunters in the community stopped hunting them. The hunters that continued to hunt appeared to maintain annual

harvest rates similar to past years, but the hunters had to invest more time and effort in pursuit of the sea lions harvested.

In addition to these factors, it is quite likely that some sea lion hunters chose to reduce their hunting activity because of perceived problems with sea lion populations. Hunters commonly are astute observers of the condition and health of local sea lion stocks. Some portion of the decline in hunting effort during the early to mid-1990s probably reflected hunters choosing not to hunt in order to help conserve sea lion populations. The constrictive effects of these factors on sea lion harvests appear to have run their course. After 1997, the numbers of sea lion hunters and sea lion takes have leveled off. During the most recent 5 survey years, the numbers of successful sea lion hunters have shown more consistency, ranging between 51 and 76 hunters. Similarly, sea lion takes during the most recent 10 survey years have ranged between 185 and 218 animals. All together, the information from surveyed hunters indicates stabilization and perhaps even a slight increase in the takes of sea lions over the last several years for the state as a whole.

Table 19
Subsistence Harbor Seal Takes by Alaska Natives by Region, 1992 - 2006*

Region	Struck														
	Harvest	and Lost	Take												
	1992			1993			1994			1995			1996		
Southeast Alaska	1,476.8	189.5	1,666.2	1,425.0	190.0	1,615.0	1,348.5	151.4	1,499.9	1,719.1	170.9	1,890.0	1,641.6	216.3	1,857.8
North Pacific Rim	377.6	33.4	411.0	412.3	38.5	450.8	411.2	56.8	468.0	252.1	11.7	263.9	289.0	22.1	311.1
U. Kenai-Cook Inlet	51.6	0.0	51.6	49.2	5.6	54.8	16.2	0.0	16.2	3.7	0.0	3.7	64.3	8.8	73.1
Kodiak Island	225.5	13.1	238.6	171.7	20.1	191.8	168.2	3.6	171.7	223.0	9.2	232.2	185.2	4.9	190.1
S. AK Peninsula	115.5	13.1	128.6	100.0	23.1	123.1	98.6	11.1	109.8	117.0	11.1	128.0	86.3	5.0	91.3
Aleutian Islands	94.3	21.4	115.7	85.0	15.4	100.4	124.9	22.6	147.5	86.9	9.7	96.6	55.0	15.2	70.2
Pribilof Islands	2.3	1.2	3.5	2.3	1.2	3.5	7.3	0.0	7.3	2.5	0.0	2.5	0.0	0.0	0.0
South Bristol Bay	99.0	68.6	167.6	73.6	57.3	130.9	121.6	59.3	180.9	68.3	28.3	96.6	63.8	44.2	108.0
North Bristol Bay	58.4	13.2	71.6	46.1	20.0	66.1	16.2	3.3	19.5	25.9	2.4	28.3	29.6	10.0	39.6
Alaska Total	2,501.0	353.4	2,854.4	2,365.3	371.1	2,736.4	2,312.8	308.0	2,620.8	2,498.5	243.3	2,741.8	2,414.7	326.6	2,741.3
Region	1997			1998			2000			2001			2002		
Southeast Alaska	1,343.4	224.1	1,567.4	1,414.0	202.4	1,616.4	1,209.7	151.4	1,361.1	1,019.9	155.9	1,175.7	877.0	129.8	1,006.8
North Pacific Rim	295.0	12.8	307.7	393.5	41.4	434.9	289.9	29.8	319.7	279.9	20.1	300.0	251.9	35.2	287.1
U. Kenai-Cook Inlet	101.7	8.8	110.5	79.2	13.5	92.7	79.2	13.5	92.7	91.2	2.7	93.9	75.2	8.0	83.2
Kodiak Island	189.8	18.3	208.2	174.0	3.7	177.7	185.9	7.3	193.2	155.6	4.8	160.4	152.1	10.2	162.3
S. AK Peninsula	68.3	12.1	80.4	79.9	7.5	87.4	65.4	18.4	83.8	68.7	16.3	85.1	70.0	19.4	89.4
Aleutian Islands	70.5	6.3	76.9	45.8	3.8	49.6	79.0	10.5	89.5	120.1	12.5	132.6	63.4	2.4	65.9
Pribilof Islands	0.0	0.0	0.0	4.6	0.0	4.6	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0
South Bristol Bay	107.8	66.3	174.1	62.2	34.3	96.5	55.4	17.6	73.0	52.9	19.8	72.7	79.7	36.8	116.6
North Bristol Bay	18.8	2.1	20.9	33.2	3.6	36.8	10.4	1.1	11.6	8.8	1.2	10.0	15.5	7.4	23.0
Alaska Total	2,195.3	350.8	2,546.2	2,286.4	310.3	2,596.7	1,974.8	249.6	2,224.4	1,797.1	234.3	2,031.4	1,585.0	249.2	1,834.2
Region	2003			2004			2005			2006					
Southeast Alaska	945.1	123.7	1,068.8	743.0	102.3	845.3	545.5	88.7	634.2	592.7	114.8	707.6			
North Pacific Rim	348.8	25.3	374.1	322.7	43.2	365.9	347.4	47.8	395.2	411.1	29.7	440.8			
U. Kenai-Cook Inlet	90.8	15.0	105.8	56.6	13.4	69.9	37.6	13.3	50.9	37.6	13.3	50.9			
Kodiak Island	172.7	13.0	185.6	172.2	15.7	188.0	305.1	10.6	315.7	210.3	10.2	220.5			
S. AK Peninsula	91.1	13.5	104.5	77.9	10.1	88.0	66.8	8.5	75.3	52.5	20.6	73.0			
Aleutian Islands	97.7	11.4	109.1	118.0	28.0	146.0	103.7	17.1	120.8	54.4	8.6	63.0			
Pribilof Islands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
South Bristol Bay	35.6	15.3	50.9	58.5	31.2	89.6	40.3	30.8	71.1	45.4	14.0	59.4			
North Bristol Bay	29.8	1.4	31.2	17.6	11.7	29.3	23.9	8.9	32.7	19.1	9.9	29.0			
Alaska Total	1,811.6	218.5	2,030.1	1,566.4	255.6	1,822.0	1,470.3	225.6	1,695.9	1,423.1	221.2	1,644.2			

* Surveys not completed for study year 1999

Table 20
Subsistence Sea Lion Takes by Alaska Natives by Region, 1992 - 2006*

Region	Struck and Lost Take			Struck and Lost Take			Struck and Lost Take			Struck and Lost Take			Struck and Lost Take		
	Harvest	and Lost	Take	Harvest	and Lost	Take	Harvest	and Lost	Take	Harvest	and Lost	Take	Harvest	and Lost	Take
	1992			1993			1994			1995			1996		
Southeast Alaska	5.2	1.3	6.4	0.0	1.1	1.1	3.5	1.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0
North Pacific Rim	25.1	6.5	31.5	26.2	8.7	34.9	16.6	9.7	26.3	28.4	3.0	31.4	12.4	1.1	13.5
U. Kenai-Cook Inlet	5.7	3.8	9.5	7.8	3.3	11.1	1.4	0.0	1.4	0.0	0.0	0.0	3.3	0.0	3.3
Kodiak Island	41.5	16.3	57.8	41.5	16.9	58.4	57.1	4.2	61.3	127.9	7.7	135.7	53.9	6.3	60.2
S. AK Peninsula	2.4	0.0	2.4	4.6	1.2	5.7	4.6	1.1	5.7	8.1	0.0	8.1	3.7	1.3	5.0
Aleutian Islands	104.3	30.9	135.2	99.0	24.8	123.8	101.8	20.5	122.3	85.0	11.1	96.1	46.5	11.3	57.9
Pribilof Islands**	176.6	120.2	296.8	165.4	80.0	245.4	149.8	43.5	193.3	57.6	10.3	67.9	32.2	14.2	46.4
South Bristol Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
North Bristol Bay	7.8	0.0	7.8	3.3	3.3	6.5	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
Alaska Total	368.5	178.9	547.4	347.8	139.3	487.1	336.0	80.1	416.1	307.1	32.1	339.2	152.1	34.1	186.2
Region	1997			1998			2000			2001			2002		
Southeast Alaska	0.0	0.0	0.0	3.3	4.4	7.6	2.3	0.0	2.3	0.0	0.0	0.0	7.0	0.0	7.0
North Pacific Rim	4.5	1.4	5.8	20.0	8.5	28.5	11.7	5.0	16.7	14.7	0.0	14.7	5.5	0.0	5.5
U. Kenai-Cook Inlet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3	0.0	0.0	0.0
Kodiak Island	33.3	4.9	38.2	14.5	3.3	17.8	18.5	0.0	18.5	32.8	2.2	35.0	16.1	0.0	16.1
S. AK Peninsula	8.3	0.0	8.3	9.2	0.0	9.2	13.8	0.0	13.8	10.2	1.4	11.6	3.9	4.2	8.1
Aleutian Islands	50.7	1.3	51.9	31.6	5.5	37.0	71.2	4.8	76.0	78.1	19.6	97.7	87.4	17.7	105.1
Pribilof Islands**	45.5	10.4	55.9	52.7	25.4	78.1	29.1	14.2	43.3	19.0	19.0	38.0	24.0	19.0	43.0
South Bristol Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
North Bristol Bay	3.6	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Alaska Total	145.7	17.9	163.7	131.2	47.0	178.2	146.6	24.0	170.6	156.2	42.2	198.4	143.9	40.9	184.7
Region	2003			2004			2005			2006					
Southeast Alaska	2.3	4.6	6.9	4.6	7.2	11.8	0.0	19.0	19.0	2.5	10.1	12.6			
North Pacific Rim	19.1	5.6	24.7	38.0	15.8	53.9	40.1	9.1	49.2	17.0	8.0	25.0			
U. Kenai-Cook Inlet	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Kodiak Island	30.3	5.7	36.0	13.5	3.5	17.0	21.9	3.2	25.1	7.0	0.0	7.0			
S. AK Peninsula	2.5	2.4	5.0	3.9	0.0	3.9	4.2	0.0	4.2	17.5	1.1	18.5			
Aleutian Islands	88.5	18.5	107.0	70.9	25.1	96.0	77.7	10.6	88.3	63.4	19.4	82.8			
Pribilof Islands**	22.3	9.7	32.0	22.3	9.7	32.0	18.3	13.7	32.0	29.3	10.7	40.0			
South Bristol Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
North Bristol Bay	0.0	0.0	0.0	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0			
Alaska Total	165.0	46.5	211.5	154.4	61.4	215.7	162.2	55.6	217.8	136.8	49.2	186.0			

* Surveys not completed for study year 1999

** St. Paul's 2000 - 2006 data from Zavadil et al. (2006), Lestenkof and Zavadil (2006), and Lestenkof et al. (2007).

Table 21
Subsistence Harbor Seal Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2006

Community	Struck and Lost Take											
	Harvest	and Lost	Take									
	1992			1993			1994			1995		
SOUTHEAST ALASKA												
Angoon	125.1	28.9	154.0	56.6	9.9	66.5	66.9	21.1	88.0	80.9	9.7	90.6
Craig	74.2	0.0	74.2	51.1	9.8	60.9	42.7	6.6	49.3	69.4	13.6	83.1
Haines	30.5	7.9	38.4	23.0	2.3	25.3	39.3	2.2	41.5	24.0	9.0	33.0
Hoonah	350.2	24.8	375.0	324.4	35.8	360.2	240.7	15.0	255.8	236.6	19.7	256.3
Hydaburg	30.0	2.1	32.1	14.0	0.0	14.0	10.0	0.0	10.0	6.5	0.0	6.5
Juneau	122.6	7.6	130.2	59.0	21.6	80.6	78.6	13.5	92.1	42.9	1.3	44.2
Kake	173.9	12.3	186.2	100.8	15.2	115.9	99.3	7.4	106.6	72.0	1.5	73.5
Ketchikan	90.2	6.5	96.8	42.4	2.9	45.3	31.4	0.0	31.4	46.4	0.0	46.4
Klawock	39.0	1.4	40.3	39.8	0.0	39.8	71.1	0.0	71.1	263.8	0.0	263.8
Klukwan	8.0	2.0	10.0	1.2	0.0	1.2	3.8	1.3	5.0	35.2	6.4	41.6
Pelican	8.3	1.4	9.7	5.3	1.1	6.4	4.4	1.1	5.6	13.5	0.0	13.5
Petersburg	22.4	2.6	25.0	4.5	4.5	9.0	15.2	1.3	16.4	13.6	1.1	14.7
Saxman	22.2	1.2	23.5	5.6	0.0	5.6	16.5	0.0	16.5	15.9	0.0	15.9
Sitka	124.7	21.4	146.1	109.3	20.6	129.9	110.5	20.1	130.6	93.8	6.3	100.0
Wrangell	6.0	8.0	14.0	19.5	9.0	28.5	101.0	27.0	128.0	89.3	22.8	112.0
Yakutat	248.0	61.3	309.3	568.4	57.4	625.8	417.1	35.0	452.1	615.5	79.6	695.1
NORTH PACIFIC RIM												
Chenega Bay	42.6	2.3	44.9	60.8	2.2	63.0	42.0	3.9	45.9	44.4	1.6	46.0
Cordova	103.8	8.8	112.5	147.4	5.5	152.9	135.8	9.1	144.9	83.4	2.0	85.4
Nanwalek	27.9	0.0	27.9	33.9	3.2	37.1	29.0	4.6	33.7	23.6	0.0	23.6
Port Graham	36.2	4.7	40.8	30.6	3.2	33.7	15.5	5.2	20.7	23.0	0.0	23.0
Seldovia	12.4	0.0	12.4	7.9	4.9	12.8	8.0	0.0	8.0	4.0	0.0	4.0
Seward	2.0	0.0	2.0	0.0	0.0	0.0	5.0	0.0	5.0	10.9	5.5	16.4
Tatitlek	152.9	17.7	170.6	110.8	15.5	126.4	145.9	30.9	176.8	46.1	2.6	48.7
Valdez	0.0	0.0	0.0	21.0	4.0	25.0	30.0	3.0	33.0	16.8	0.0	16.8
UPPER KENAI-COOK INLET												
Anchorage	17.1	0.0	17.1	24.4	5.6	30.0	4.2	0.0	4.2	3.7	0.0	3.7
Homer	--	--	--	4.8	0.0	4.8	12.0	0.0	12.0	0.0	0.0	0.0
Kenai	33.3	0.0	33.3	20.0	0.0	20.0	--	--	--	--	--	--
Tyonek	1.1	0.0	1.1	--	--	--	--	--	--	--	--	--
KODIAK ISLAND												
Akhiok	20.0	3.0	23.0	13.3	0.0	13.3	14.5	0.0	14.5	5.0	0.0	5.0
Karluk	16.5	1.5	18.0	10.0	1.3	11.3	7.5	0.0	7.5	28.1	6.8	34.9
Kodiak City	36.9	0.0	36.9	6.0	1.0	7.0	7.6	0.0	7.6	8.8	0.0	8.8
Larsen Bay	6.5	0.0	6.5	7.7	5.5	13.2	13.4	2.2	15.7	11.0	0.0	11.0
Old Harbor	86.8	5.3	92.1	67.6	2.7	70.3	83.7	1.3	85.0	112.0	2.4	114.4
Ouzinkie	21.8	1.1	23.0	41.2	8.7	49.8	33.4	0.0	33.4	56.1	0.0	56.1
Port Lions	36.9	2.2	39.1	26.0	1.0	27.0	8.0	0.0	8.0	2.0	0.0	2.0

Table 21 (Continued)
Subsistence Harbor Seal Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2006

Community	Struck														
	Harvest	and Lost	Take												
	1996			1997			1998			2000			2001		
SOUTHEAST ALASKA															
Angoon	71.0	2.0	73.0	51.0	7.1	58.1	53.0	2.0	55.0	64.3	6.1	70.4	85.0	5.2	90.2
Craig	48.2	8.0	56.3	62.0	7.5	69.5	52.7	5.2	57.9	35.0	3.0	38.0	54.0	4.0	58.0
Haines	41.1	3.4	44.6	36.8	10.5	47.3	30.7	10.6	41.3	17.5	0.0	17.5	19.3	1.1	20.4
Hoonah	359.7	48.6	408.3	143.8	9.9	153.8	169.7	19.8	189.6	147.9	16.0	163.9	143.4	13.2	156.7
Hydaburg	15.0	0.0	15.0	11.5	0.0	11.5	14.4	0.0	14.4	14.4	0.0	14.4	14.4	0.0	14.4
Juneau	32.8	1.3	34.1	99.0	0.0	99.0	90.4	15.3	105.7	59.9	3.5	63.4	29.9	1.6	31.5
Kake	86.4	0.0	86.4	68.4	7.6	76.0	123.0	6.1	129.1	101.7	3.6	105.3	85.6	10.7	96.4
Ketchikan	25.0	0.0	25.0	27.4	4.3	31.8	26.7	0.0	26.7	111.7	0.0	111.7	12.7	0.0	12.7
Klawock	69.8	0.0	69.8	94.0	0.0	94.0	83.0	0.0	83.0	67.1	0.0	67.1	71.5	0.0	71.5
Klukwan	6.3	0.0	6.3	1.1	0.0	1.1	10.5	0.0	10.5	18.0	0.0	18.0	0.0	0.0	0.0
Pelican	15.4	0.0	15.4	14.5	0.0	14.5	15.8	2.4	18.2	7.5	0.0	7.5	9.0	0.0	9.0
Petersburg	19.5	2.4	21.9	11.8	4.3	16.2	23.9	9.3	33.2	20.7	7.2	27.9	16.0	22.0	38.0
Saxman	4.9	0.0	4.9	11.0	0.0	11.0	19.6	0.0	19.6	45.6	1.9	47.5	12.9	0.0	12.9
Sitka	126.8	4.1	130.9	150.6	3.7	154.3	237.6	29.4	267.0	276.8	41.1	317.8	241.3	32.8	274.1
Wrangell	79.3	22.2	101.5	68.8	29.2	98.0	174.0	30.0	204.0	28.5	12.0	40.5	16.0	29.0	45.0
Yakutat	640.3	124.1	764.5	491.5	139.9	631.5	289.0	72.3	361.3	193.3	56.8	250.1	208.8	36.2	245.0
NORTH PACIFIC RIM															
Chenega Bay	16.0	3.0	19.0	25.7	0.0	25.7	15.6	0.0	15.6	15.0	0.0	15.0	13.0	0.0	13.0
Cordova	122.2	8.6	130.8	120.8	0.0	120.8	79.1	9.3	88.3	87.8	14.0	101.8	102.7	5.8	108.5
Nanwalek	22.4	0.0	22.4	20.2	0.0	20.2	30.9	1.0	31.9	52.9	3.9	56.8	42.3	1.2	43.5
Port Graham	15.5	2.2	17.7	15.8	3.2	19.0	52.3	3.6	55.9	40.2	1.7	41.9	39.4	8.3	47.6
Seldovia	3.0	0.0	3.0	2.8	2.8	5.5	3.0	0.0	3.0	2.0	0.0	2.0	3.0	0.0	3.0
Seward	5.6	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	4.0	0.0	0.0	0.0
Tatitlek	90.8	3.8	94.6	97.2	6.8	104.0	171.1	19.2	190.2	46.3	1.9	48.2	61.6	4.7	66.3
Valdez	13.5	4.5	18.0	12.5	0.0	12.5	41.7	8.3	50.0	41.7	8.3	50.0	18.0	0.0	18.0
UPPER KENAI-COOK INLET															
Anchorage	28.9	6.2	35.1	23.6	1.2	24.8	43.8	7.5	51.3	43.8	7.5	51.3	45.3	2.7	48.0
Homer	10.5	1.5	12.0	41.1	2.6	43.7	22.8	6.0	28.8	22.8	6.0	28.8	21.0	0.0	21.0
Kenai	22.9	1.1	24.0	35.0	5.0	40.0	12.6	0.0	12.6	12.6	0.0	12.6	24.9	0.0	24.9
Tyonek	2.0	0.0	2.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KODIAK ISLAND															
Akhiok	12.0	1.0	13.0	7.9	0.0	7.9	7.3	0.0	7.3	17.6	0.0	17.6	7.2	0.0	7.2
Karluk	15.1	0.0	15.1	19.0	0.0	19.0	11.0	0.0	11.0	19.5	1.5	21.0	8.3	0.0	8.3
Kodiak City	9.0	0.0	9.0	13.0	0.0	13.0	11.0	0.0	11.0	21.6	4.8	26.4	17.5	0.0	17.5
Larsen Bay	15.0	0.0	15.0	9.8	4.2	13.9	1.7	0.0	1.7	18.6	0.0	18.6	9.0	1.1	10.2
Old Harbor	113.5	1.3	114.8	80.0	4.8	84.8	55.1	1.1	56.2	59.1	0.0	59.1	71.3	0.0	71.3
Ouzinkie	16.7	2.6	19.3	55.2	9.4	64.6	82.0	2.5	84.5	43.0	1.0	44.0	33.4	2.6	36.0
Port Lions	4.0	0.0	4.0	5.0	0.0	5.0	6.0	0.0	6.0	6.4	0.0	6.4	8.8	1.1	9.9

Table 21 (Continued)
Subsistence Harbor Seal Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2006

Community	Struck														
	Harvest	and Lost	Take												
	2002			2003			2004			2005			2006		
SOUTHEAST ALASKA															
Angoon	72.7	2.2	74.9	54.9	0.0	54.9	47.4	3.2	50.5	57.5	6.2	63.7	46.0	8.0	54.0
Craig	38.9	5.7	44.6	28.0	6.0	34.0	29.7	5.5	35.2	26.0	3.0	29.0	1.3	0.0	1.3
Haines	19.6	26.2	45.8	12.0	0.0	12.0	7.0	0.0	7.0	2.0	0.0	2.0	4.7	0.0	4.7
Hoonah	96.4	6.0	102.4	52.2	10.4	62.6	106.2	9.0	115.2	53.0	11.0	64.0	55.6	7.6	63.2
Hydaburg	14.4	0.0	14.4	14.4	0.0	14.4	14.4	0.0	14.4	14.4	0.0	14.4	14.4	0.0	14.4
Juneau	17.2	1.4	18.7	30.3	24.8	55.0	13.6	9.1	22.7	8.0	1.0	9.0	26.1	23.4	49.5
Kasaan	98.2	10.6	108.7	52.1	0.0	52.1	96.2	0.0	96.2	47.6	4.6	52.3	40.5	0.0	40.5
Ketchikan	123.5	1.2	124.6	78.0	0.0	78.0	60.0	5.0	65.0	73.1	0.0	73.1	37.6	0.0	37.6
Klawock	24.0	0.0	24.0	59.8	0.0	59.8	29.2	7.6	36.8	20.0	2.0	22.0	16.2	3.5	19.7
Klukwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pelican	1.8	0.0	1.8	1.8	0.0	1.8	1.8	0.0	1.8	10.5	0.0	10.5	8.4	0.0	8.4
Petersburg	45.0	18.0	63.0	9.6	7.2	16.8	10.3	8.3	18.6	30.0	22.0	52.0	10.0	11.0	21.0
Saxman	25.5	3.0	28.5	12.0	0.0	12.0	5.0	0.0	5.0	6.8	5.5	12.3	20.2	0.0	20.2
Sitka	169.7	19.3	189.0	220.4	5.2	225.6	141.2	19.3	160.5	23.0	1.0	24.0	141.2	19.3	160.5
Wrangell	20.0	9.0	29.0	68.0	18.7	86.7	33.3	8.3	41.7	33.3	8.3	41.7	33.3	8.3	41.7
Yakutat	110.3	27.2	137.5	251.7	51.5	303.2	147.7	27.1	174.8	140.2	24.1	164.3	137.3	33.8	171.0
NORTH PACIFIC RIM															
Chenega Bay	9.3	1.2	10.5	44.9	14.6	59.5	21.1	1.1	22.2	4.9	0.0	4.9	21.3	0.0	21.3
Cordova	102.7	5.8	108.5	77.7	2.7	80.5	77.7	2.7	80.5	57.0	9.0	66.0	30.9	2.6	33.4
Nanwalek	40.0	12.0	52.0	30.0	3.0	33.0	30.2	12.5	42.7	20.3	6.4	26.7	23.6	5.1	28.7
Port Graham	39.4	8.3	47.6	45.0	0.0	45.0	44.4	2.8	47.2	63.5	8.5	71.9	51.0	0.0	51.0
Seldovia	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	1.0	1.0	2.0	2.7	0.0	2.7
Seward	3.5	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tatitlek	13.1	1.9	14.9	91.1	0.0	91.1	90.2	23.1	113.3	137.8	16.9	154.7	218.7	16.0	234.7
Valdez	44.0	6.0	50.0	60.0	5.0	65.0	58.0	0.0	58.0	63.0	6.0	69.0	63.0	6.0	69.0
UPPER KENAI-COOK INLET															
Anchorage	39.8	8.0	47.7	55.0	15.0	70.0	46.8	13.4	60.2	25.0	13.3	38.3	25.0	13.3	38.3
Homer	23.5	0.0	23.5	10.8	0.0	10.8	3.7	0.0	3.7	5.6	0.0	5.6	5.6	0.0	5.6
Kenai	9.0	0.0	9.0	20.0	0.0	20.0	6.0	0.0	6.0	6.0	0.0	6.0	6.0	0.0	6.0
Tyonek	3.0	0.0	3.0	5.0	0.0	5.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0	1.0
KODIAK ISLAND															
Akhiok	6.3	0.0	6.3	5.5	0.0	5.5	4.2	1.4	5.6	6.9	0.0	6.9	13.6	1.1	14.7
Karluk	8.3	0.0	8.3	4.3	0.0	4.3	3.1	0.0	3.1	19.4	0.0	19.4	19.4	0.0	19.4
Kodiak City	17.5	0.0	17.5	32.0	6.0	38.0	21.0	4.5	25.5	10.8	0.0	10.8	10.8	0.0	10.8
Larsen Bay	3.3	0.0	3.3	2.5	0.0	2.5	12.5	0.0	12.5	17.0	0.0	17.0	20.3	0.0	20.3
Old Harbor	40.5	0.0	40.5	66.7	2.9	69.6	37.8	5.9	43.7	37.5	1.1	38.6	20.2	0.0	20.2
Ouzinkie	63.4	10.2	73.6	48.8	4.1	52.8	73.0	3.9	76.9	136.6	9.5	146.1	49.0	9.1	58.1
Port Lions	13.0	0.0	13.0	12.9	0.0	12.9	20.6	0.0	20.6	77.0	0.0	77.0	77.0	0.0	77.0

Table 22
Subsistence Harbor Seal Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2006

Community	Struck and Lost Take			Struck and Lost Take			Struck and Lost Take			Struck and Lost Take					
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
SOUTH ALASKA															
PENINSULA															
Chignik Bay	2.4	1.2	3.6	6.3	5.0	11.3	3.4	0.0	3.4	0.0	0.0	0.0	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
Chignik Lake	8.3	2.1	10.3	15.2	5.5	20.8	20.8	1.3	22.1	3.2	1.1	4.3			
False Pass	18.0	0.0	18.0	19.0	0.0	19.0	12.6	2.1	14.7	25.9	1.2	27.1			
Ivanof Bay	10.0	1.0	11.0	16.3	4.7	21.0	12.0	1.3	13.3	18.7	2.7	21.3			
King Cove	26.0	6.7	32.7	12.8	3.5	16.3	20.9	1.1	22.0	49.0	3.0	52.0			
Nelson Lagoon	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--			
Perryville	8.9	2.2	11.1	12.8	2.1	15.0	21.1	0.0	21.1	11.0	3.1	14.1			
Sand Point	37.9	0.0	37.9	13.3	1.2	14.4	7.8	4.3	12.1	9.2	0.0	9.2			
ALEUTIAN ISLANDS															
Adak	--	--	--	--	--	--	--	--	--	--	--	--			
Akutan	12.9	4.3	17.1	15.6	4.5	20.1	13.8	3.5	17.3	7.0	0.0	7.0			
Atka	28.6	9.9	38.5	32.7	0.0	32.7	73.7	8.7	82.3	42.5	0.0	42.5			
Nikolski	5.8	3.5	9.3	4.0	1.0	5.0	6.0	0.0	6.0	0.0	0.0	0.0			
Unalaska	47.0	3.7	50.8	32.7	9.9	42.6	31.4	10.5	41.8	37.4	9.7	47.1			
PRIBILOF ISLANDS															
St. George	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
St. Paul	2.3	1.2	3.5	2.3	1.2	3.5	7.3	0.0	7.3	2.5	0.0	2.5			
SOUTH BRISTOL BAY															
Egegik	3.3	14.3	17.7	7.7	3.3	11.0	12.8	0.0	12.8	1.4	0.0	1.4			
King Salmon	10.2	0.0	10.2	21.3	10.7	32.0	17.0	4.5	21.5	13.0	3.0	16.0			
Levelock	10.8	0.0	10.8	2.7	5.4	8.1	0.0	0.0	0.0	0.0	0.0	0.0			
Naknek	26.6	7.0	33.6	2.7	0.0	2.7	21.4	8.3	29.7	34.8	15.3	50.2			
Pilot Point	5.4	4.3	9.7	2.2	0.0	2.2	3.1	0.0	3.1	0.0	0.0	0.0			
Port Heiden	40.5	36.0	76.5	30.7	19.9	50.6	63.0	45.3	108.3	17.0	10.0	27.0			
South Naknek	2.3	6.9	9.2	6.4	18.0	24.4	4.4	1.1	5.5	2.1	0.0	2.1			
NORTH BRISTOL BAY															
Aleknagik	0.0	3.6	3.6	0.0	0.0	0.0	0.0	3.3	3.3	0.0	0.0	0.0			
Clark's Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Dillingham	29.2	3.8	32.9	18.0	4.2	22.2	16.2	0.0	16.2	13.3	0.0	13.3			
Manokotak	4.9	3.8	8.7	3.2	0.0	3.2	0.0	0.0	0.0	9.3	2.4	11.7			
Togiak	24.3	2.0	26.3	24.9	15.8	40.7	0.0	0.0	0.0	3.3	0.0	3.3			
Twin Hills	--	--	--	--	--	--	--	--	--	--	--	--			

Table 22 (Continued)
Subsistence Harbor Seal Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2006

Community	Struck			Struck			Struck			Struck			Struck		
	Harvest	and Lost	Take	Harvest	and Lost	Take	Harvest	and Lost	Take	Harvest	and Lost	Take	Harvest	and Lost	Take
	1996			1997			1998			2000			2001		
SOUTH ALASKA PENINSULA															
Chignik Bay	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chignik Lagoon	0.0	0.0	0.0	1.3	1.3	2.7	0.0	0.0	0.0	1.2	0.0	1.2	1.1	0.0	1.1
Chignik Lake	3.5	0.0	3.5	2.2	1.1	3.3	1.9	0.0	1.9	3.3	0.0	3.3	1.3	1.3	2.6
False Pass	13.9	0.0	13.9	8.0	0.0	8.0	17.8	1.3	19.1	2.5	1.2	3.7	2.5	1.2	3.7
Ivanof Bay	13.2	0.0	13.2	9.0	1.8	10.8	9.0	1.8	10.8	3.2	0.0	3.2	7.0	1.4	8.4
King Cove	14.0	5.0	19.0	16.9	2.1	19.1	18.2	0.0	18.2	19.3	2.1	21.4	22.0	4.0	26.0
Nelson Lagoon	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Perryville	20.5	0.0	20.5	21.7	5.7	27.4	21.0	4.4	25.4	21.0	15.0	36.0	24.0	6.9	30.9
Sand Point	20.2	0.0	20.2	9.1	0.0	9.1	12.0	0.0	12.0	15.0	0.0	15.0	10.9	1.6	12.4
ALEUTIAN ISLANDS															
Adak	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Akutan	8.0	7.0	15.0	14.0	3.8	17.8	14.0	3.8	17.8	25.7	5.4	31.1	13.6	2.7	16.4
Atka	22.7	2.2	24.8	26.0	1.5	27.5	16.8	0.0	16.8	16.8	0.0	16.8	63.3	6.7	70.0
Nikolski	4.0	1.0	5.0	4.0	1.0	5.0	2.2	0.0	2.2	2.2	0.0	2.2	5.3	0.0	5.3
Unalaska	20.3	5.1	25.4	26.5	0.0	26.5	12.7	0.0	12.7	34.3	5.1	39.4	37.8	3.2	41.0
PRIBILOF ISLANDS															
St. George	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
St. Paul	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0
SOUTH BRISTOL BAY															
Egegik	2.8	0.0	2.8	1.6	0.0	1.6	0.0	0.0	0.0	4.0	3.0	7.0	6.3	1.0	7.3
King Salmon	9.5	2.4	11.9	9.7	0.0	9.7	5.2	0.0	5.2	3.3	9.8	13.0	8.5	6.1	14.6
Levelock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	2.8	0.0	0.0	0.0
Naknek	16.2	7.5	23.7	24.8	6.5	31.2	15.7	7.8	23.5	16.3	0.0	16.3	15.1	4.3	19.4
Pilot Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	2.1	7.4	2.0	2.0	4.0
Port Heiden	34.3	34.3	68.6	69.2	50.0	119.2	36.1	18.6	54.7	19.6	0.0	19.6	10.1	3.4	13.4
South Naknek	1.0	0.0	1.0	2.5	9.8	12.3	5.2	7.9	13.1	4.1	2.7	6.8	11.0	3.0	14.0
NORTH BRISTOL BAY															
Aleknagik	0.0	0.0	0.0	1.2	0.0	1.2	3.1	0.0	3.1	2.5	0.0	2.5	0.0	1.2	1.2
Clark's Point	0.0	0.0	0.0	1.3	0.0	1.3	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
Dillingham	0.0	0.0	0.0	1.2	0.0	1.2	8.5	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
Manokotak	2.4	3.6	6.0	0.0	0.0	0.0	4.0	0.0	4.0	1.2	0.0	1.2	3.5	0.0	3.5
Togiak	3.9	0.0	3.9	6.7	0.0	6.7	14.1	1.4	15.5	5.1	1.1	6.3	5.3	0.0	5.3
Twin Hills	23.3	6.5	29.8	8.4	2.1	10.5	2.2	2.2	4.4	1.6	0.0	1.6	0.0	0.0	0.0

Table 22 (Continued)
Subsistence Harbor Seal Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2006

Community	Struck														
	Harvest	and Lost	Take												
	2002			2003			2004			2005			2006		
SOUTH ALASKA															
PENINSULA															
Chignik Bay	1.3	0.0	1.3	2.8	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	4.3	1.4	5.8
Chignik Lagoon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chignik Lake	2.9	0.0	2.9	8.9	3.0	11.8	1.1	0.0	1.1	3.6	1.2	4.8	0.0	2.9	2.9
False Pass	2.5	0.0	2.5	2.8	0.0	2.8	6.7	3.3	10.0	5.7	0.0	5.7	0.0	0.0	0.0
Ivanof Bay	7.0	1.4	8.4	--	--	--	2.8	0.0	2.8	--	--	--	3.0	0.0	3.0
King Cove	7.5	3.0	10.5	11.0	4.4	15.4	32.3	0.0	32.3	21.5	0.0	21.5	14.0	0.0	14.0
Nelson Lagoon	--	--	--	--	--	--	20.0	5.6	25.6	--	--	--	--	--	--
Perryville	33.8	15.0	48.8	51.3	6.1	57.4	15.0	1.3	16.3	21.0	6.0	27.0	27.4	14.3	41.7
Sand Point	15.0	0.0	15.0	14.3	0.0	14.3	0.0	0.0	0.0	15.0	1.3	16.3	3.8	1.9	5.6
ALEUTIAN ISLANDS															
Adak	--	--	--	4.0	1.0	5.0	0.0	0.0	0.0	12.0	0.0	12.0	0.0	0.0	0.0
Akutan	10.2	0.0	10.2	10.8	4.3	15.2	9.5	1.6	11.1	8.5	2.4	10.9	2.4	0.0	2.4
Atka	36.0	0.0	36.0	57.6	1.6	59.2	73.9	16.9	90.8	47.2	9.1	56.4	26.0	4.0	30.0
Nikolski	3.0	1.0	4.0	11.0	3.0	14.0	6.0	1.0	7.0	6.0	1.0	7.0	17.0	1.0	18.0
Unalaska	14.3	1.4	15.7	14.3	1.4	15.7	28.6	8.6	37.1	30.0	4.5	34.5	9.0	3.6	12.6
PRIBILOF ISLANDS															
St. George	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
St. Paul	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SOUTH BRISTOL BAY															
Egegik	2.2	1.1	3.2	4.0	1.0	5.0	1.0	1.0	2.1	1.1	2.1	3.2	3.0	0.0	3.0
King Salmon	2.9	0.0	2.9	7.3	6.1	13.4	5.0	3.3	8.3	0.0	0.0	0.0	7.0	0.0	7.0
Levelock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	2.7	0.0	0.0	0.0
Naknek	26.2	12.5	38.7	10.5	0.0	10.5	15.2	3.8	19.0	6.2	0.0	6.2	15.1	7.5	22.6
Pilot Point	2.0	2.0	4.0	2.7	2.7	5.3	1.9	5.6	7.4	0.0	0.0	0.0	3.0	0.0	3.0
Port Heiden	30.4	18.3	48.7	10.0	5.6	15.6	20.0	13.0	33.0	13.0	19.5	32.5	17.3	6.5	23.8
South Naknek	16.0	3.0	19.0	1.1	0.0	1.1	15.4	4.4	19.8	17.3	9.2	26.5	0.0	0.0	0.0
NORTH BRISTOL BAY															
Aleknagik	0.0	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Clark's Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	2.8	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	1.3	0.0	1.3	0.0	1.0	1.0
Manokotak	0.0	0.0	0.0	2.2	0.0	2.2	4.0	0.0	4.0	6.6	8.9	15.5	6.6	8.9	15.5
Togiak	13.9	3.6	17.4	22.0	0.0	22.0	6.9	9.7	16.6	10.8	0.0	10.8	11.5	0.0	11.5
Twin Hills	1.7	1.7	3.3	5.6	1.4	7.0	6.8	1.9	8.8	2.5	0.0	2.5	1.0	0.0	1.0

Table 23
Subsistence Sea Lion Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2006

Community	Struck and Lost Take														
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
SOUTHEAST ALASKA															
Angoon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Craig	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Haines	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hoonah	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydaburg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Juneau	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
Kake	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
Ketchikan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Klawock	1.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Klukwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pelican	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petersburg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Saxman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sitka	3.8	1.3	5.0	0.0	1.1	1.1	1.1	1.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0
Wrangell	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yakutat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTH PACIFIC RIM															
Chenega Bay	6.9	1.2	8.1	11.1	6.6	17.7	6.6	0.0	6.6	6.6	0.0	6.6	6.6	0.0	6.6
Cordova	0.0	0.0	0.0	1.5	0.0	1.5	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	1.0
Nanwalek	6.3	0.0	6.3	8.5	1.1	9.5	1.2	2.3	3.5	9.2	0.0	9.2	9.2	0.0	9.2
Port Graham	3.5	1.2	4.7	1.1	0.0	1.1	0.0	0.0	0.0	10.0	2.0	12.0	10.0	2.0	12.0
Seldovia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Seward	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tatitlek	8.3	4.2	12.5	4.1	1.0	5.2	8.8	7.4	16.2	2.6	0.0	2.6	2.6	0.0	2.6
Valdez	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UPPER KENAI-COOK INLET															
Anchorage	5.7	3.8	9.5	7.8	3.3	11.1	1.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
Homer	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kenai	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--
Tyonek	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--
KODIAK ISLAND															
Akhiok	3.0	1.0	4.0	0.0	0.0	0.0	3.2	0.0	3.2	1.0	1.0	2.0	1.0	1.0	2.0
Karluk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	2.2	0.0	2.2
Larsen Bay	1.1	0.0	1.1	0.0	0.0	0.0	2.2	0.0	2.2	2.0	1.0	3.0	2.0	1.0	3.0
Old Harbor	32.9	13.2	46.1	32.1	1.0	33.2	46.2	1.3	47.5	107.1	5.7	112.9	107.1	5.7	112.9
Ouzinkie	3.4	0.0	3.4	5.4	2.2	7.6	4.4	2.9	7.3	15.6	0.0	15.6	15.6	0.0	15.6
Port Lions	1.1	2.2	3.3	4.0	1.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 23 (Continued)
Subsistence Sea Lion Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2006

Community	Struck														
	Harvest	and Lost	Take												
	1996			1997			1998			2000			2001		
SOUTHEAST ALASKA															
Angoon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0
Craig	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Haines	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hoonah	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydaburg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Juneau	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ketchikan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Klawock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3	0.0	0.0	0.0
Klukwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pelican	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petersburg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Saxman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sitka	0.0	0.0	0.0	0.0	0.0	0.0	3.3	4.4	7.6	0.0	0.0	0.0	0.0	0.0	0.0
Wrangell	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yakutat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTH PACIFIC RIM															
Chenega Bay	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2
Cordova	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	3.5
Nanwalek	4.3	1.1	5.3	0.0	0.0	0.0	2.1	0.0	2.1	6.5	0.0	6.5	3.7	0.0	3.7
Port Graham	1.1	0.0	1.1	0.0	0.0	0.0	1.2	0.0	1.2	1.7	3.4	5.0	0.0	0.0	0.0
Seldovia	0.0	0.0	0.0	1.7	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Seward	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tatitlek	5.0	0.0	5.0	2.7	1.4	4.1	15.1	6.8	21.9	1.9	0.0	1.9	6.3	0.0	6.3
Valdez	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.3	1.7	1.7	3.3	0.0	0.0	0.0
UPPER KENAI-COOK INLET															
Anchorage	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3
Homer	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kenai	2.3	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tyonek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KODIAK ISLAND															
Akhiok	6.0	1.0	7.0	6.6	1.3	7.9	3.1	0.0	3.1	3.2	0.0	3.2	1.4	0.0	1.4
Karluk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kodiak City	3.0	0.0	3.0	3.0	0.0	3.0	0.0	1.0	1.0	2.4	0.0	2.4	2.5	0.0	2.5
Larsen Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Old Harbor	44.9	5.3	50.2	22.7	3.6	26.3	10.3	2.3	12.6	12.9	0.0	12.9	26.3	2.2	28.5
Ouzinkie	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	2.6
Port Lions	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 23 (Continued)
Subsistence Sea Lion Takes by Alaska Natives
By Eastern Gulf of Alaska Communities, 1992 - 2006

Community	Struck														
	Harvest	and Lost	Take												
	2002			2003			2004			2005			2006		
SOUTHEAST ALASKA															
Angoon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Craig	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0
Haines	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hoonah	0.0	0.0	0.0	0.0	4.6	4.6	0.0	7.2	7.2	0.0	9.0	9.0	0.0	10.0	10.0
Hydaburg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Juneau	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4
Kake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ketchikan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Klawock	1.0	0.0	1.0	2.3	0.0	2.3	1.3	0.0	1.3	0.0	10.0	10.0	1.2	0.0	1.2
Klukwan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pelican	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Petersburg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Saxman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sitka	6.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wrangell	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yakutat	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTH PACIFIC RIM															
Chenega Bay	0.0	0.0	0.0	0.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cordova	3.5	0.0	3.5	2.7	0.0	2.7	2.7	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
Nanwalek	2.0	0.0	2.0	3.0	2.0	5.0	2.1	0.0	2.1	1.1	0.0	1.1	1.0	0.0	1.0
Port Graham	0.0	0.0	0.0	1.0	0.0	1.0	6.9	5.6	12.5	0.0	0.0	0.0	0.0	0.0	0.0
Seldovia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Seward	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tatitlek	0.0	0.0	0.0	12.4	1.1	13.5	26.3	10.3	36.6	39.0	9.1	48.1	16.0	8.0	24.0
Valdez	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UPPER KENAI-COOK INLET															
Anchorage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Homer	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kenai	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tyonek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
KODIAK ISLAND															
Akhiok	0.0	0.0	0.0	2.7	1.4	4.1	1.4	0.0	1.4	0.0	0.0	0.0	2.3	0.0	2.3
Karluk	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kodiak City	2.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Larsen Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Old Harbor	8.5	0.0	8.5	27.6	4.4	31.9	8.3	3.5	11.8	18.2	3.2	21.4	1.1	0.0	1.1
Ouzinkie	5.1	0.0	5.1	0.0	0.0	0.0	2.6	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0
Port Lions	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	3.7	0.0	3.7	3.7	0.0	3.7

Table 24
Subsistence Sea Lion Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2006

Community	Struck and Lost Take			Struck and Lost Take			Struck and Lost Take			Struck and Lost Take					
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
SOUTH ALASKA PENINSULA															
Chignik Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chignik Lagoon	0.0	0.0	0.0	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chignik Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
False Pass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ivanof Bay	0.0	0.0	0.0	2.3	1.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
King Cove	1.3	0.0	1.3	1.2	0.0	1.2	3.2	1.1	4.3	5.0	0.0	5.0	5.0	0.0	5.0
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	3.1	0.0	3.1
Sand Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ALEUTIAN ISLANDS															
Adak	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Akutan	25.7	4.3	30.0	14.5	8.9	23.4	12.7	3.5	16.2	6.0	0.0	6.0	6.0	0.0	6.0
Atka	28.6	9.9	38.5	25.1	0.0	25.1	45.5	8.7	54.2	40.0	0.0	40.0	40.0	0.0	40.0
Nikolski	8.2	0.0	8.2	6.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unalaska	41.8	16.7	58.5	53.4	15.9	69.3	43.6	8.4	51.9	39.0	11.1	50.1	39.0	11.1	50.1
PRIBILOF ISLANDS															
St. George	14.9	55.0	69.9	3.7	14.8	18.6	2.8	17.1	19.9	4.0	4.0	8.0	4.0	4.0	8.0
St. Paul *	161.7	65.2	226.8	161.7	65.2	226.8	147.0	26.4	173.4	53.6	6.3	59.9	53.6	6.3	59.9
SOUTH BRISTOL BAY															
Egegik	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
King Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Levelock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naknek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pilot Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Port Heiden	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South Naknek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTH BRISTOL BAY															
Aleknagik	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Clark's Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dillingham	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Manokotak	3.9	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Togiak	3.9	0.0	3.9	3.3	3.3	6.5	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
Twin Hills	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

* St. Paul's 2000 - 2006 data from Zavadil et al. (2006), Lestenkof and Zavadil (2006), and Lestenkof et al. (2007).

Table 24 (Continued)
Subsistence Sea Lion Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2006

Community	Struck														
	Harvest	and Lost	Take												
	1996			1997			1998			2000			2001		
SOUTH ALASKA PENINSULA															
Chignik Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chignik Lagoon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chignik Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
False Pass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ivanof Bay	2.4	0.0	2.4	1.8	0.0	1.8	1.8	0.0	1.8	0.0	0.0	0.0	1.4	1.4	2.8
King Cove	0.0	0.0	0.0	4.2	0.0	4.2	4.3	0.0	4.3	4.3	0.0	4.3	3.0	0.0	3.0
Perryville	1.3	1.3	2.6	2.3	0.0	2.3	1.1	0.0	1.1	4.5	0.0	4.5	1.1	0.0	1.1
Sand Point	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0	5.0	0.0	5.0	4.7	0.0	4.7
ALEUTIAN ISLANDS															
Adak	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Akutan	11.0	5.0	16.0	6.4	0.0	6.4	6.4	0.0	6.4	4.1	1.4	5.4	15.0	2.7	17.7
Atka	17.3	0.0	17.3	12.2	0.0	12.2	16.8	0.0	16.8	16.8	0.0	16.8	33.3	11.7	45.0
Nikolski	3.0	0.0	3.0	3.0	0.0	3.0	1.1	0.0	1.1	1.1	0.0	1.1	6.7	0.0	6.7
Unalaska	15.2	6.3	21.6	29.1	1.3	30.3	7.3	5.5	12.7	49.2	3.4	52.6	23.1	5.3	28.4
PRIBILOF ISLANDS															
St. George	4.0	4.0	8.0	19.6	8.1	27.7	11.8	8.5	20.3	11.8	8.5	20.3	7.0	7.0	14.0
St. Paul *	28.2	10.2	38.4	25.9	2.3	28.2	41.0	16.9	57.8	17.3	5.7	23.0	12.0	12.0	24.0
SOUTH BRISTOL BAY															
Egegik	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
King Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Levelock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naknek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pilot Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Port Heiden	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South Naknek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTH BRISTOL BAY															
Aleknagik	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Clark's Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dillingham	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Manokotak	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Togjak	0.0	0.0	0.0	3.6	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Twin Hills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* St. Paul's 2000 - 2006 data from Zavadil et al. (2006), Lestenkof and Zavadil (2006), and Lestenkof et al. (2007).

Table 24 (Continued)
Subsistence Sea Lion Takes by Alaska Natives
By Western Gulf-Bering Sea Communities, 1992 - 2006

Community	Struck														
	Harvest	and Lost	Take												
	2002			2003			2004			2005			2006		
SOUTH ALASKA PENINSULA															
Chignik Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chignik Lagoon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chignik Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
False Pass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ivanof Bay	1.4	1.4	2.8	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0
King Cove	0.0	1.5	1.5	0.0	0.0	0.0	1.7	0.0	1.7	3.2	0.0	3.2	11.8	1.1	12.9
Perryville	2.5	1.3	3.8	1.2	2.4	3.7	2.2	0.0	2.2	1.0	0.0	1.0	0.0	0.0	0.0
Sand Point	0.0	0.0	0.0	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	5.6
ALEUTIAN ISLANDS															
Adak	--	--	--	1.0	0.0	1.0	2.0	1.0	3.0	4.0	0.0	4.0	0.0	0.0	0.0
Akutan	2.9	0.0	2.9	8.7	0.0	8.7	4.8	0.0	4.8	4.8	0.0	4.8	2.4	0.0	2.4
Atka	73.5	12.0	85.5	68.8	12.8	81.6	50.7	12.7	63.3	54.9	6.1	61.0	52.0	14.0	66.0
Nikolski	1.0	0.0	1.0	0.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0	2.0	0.0	0.0	0.0
Unalaska	10.0	5.7	15.7	10.0	5.7	15.7	11.4	11.4	22.9	12.0	4.5	16.5	9.0	5.4	14.4
PRIBILOF ISLANDS															
St. George	6.0	1.0	7.0	9.3	4.7	14.0	9.3	4.7	14.0	9.3	4.7	14.0	9.3	4.7	14.0
St. Paul *	18.0	18.0	36.0	13.0	5.0	18.0	13.0	5.0	18.0	9.0	9.0	18.0	20.0	6.0	26.0
SOUTH BRISTOL BAY															
Egegik	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
King Salmon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Levelock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naknek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pilot Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Port Heiden	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South Naknek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORTH BRISTOL BAY															
Aleknagik	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Clark's Point	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dillingham	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Manokotak	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Togjak	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Twin Hills	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0

* St. Paul's 2000 - 2006 data from Zavadil et al. (2006), Lestenkof and Zavadil (2006), and Lestenkof et al. (2007).

Table 25
Seal Harvests by Strata
for Communities With Two Strata Designs, 2006

Community		Reported by Sample			Expanded		
		Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
Dillingham	high stratum	9	0	9	15.2	0.0	15.2
	low stratum	0	1	1	0.0	1.0	1.0
Manokotak	high stratum	28	10	38	28.9	10.3	39.2
	low stratum	19	6	25	23.6	7.5	31.1
Naknek	high stratum	14	7	21	15.1	7.5	22.6
	low stratum	0	0	0	0.0	0.0	0.0
Togiak	high stratum	43	6	49	45.0	6.3	51.3
	low stratum	16	1	17	17.4	1.1	18.5

Table 26
Sea Lion Harvests by Strata
for Communities With Two Strata Designs, 2006

Community		Reported by Sample			Expanded		
		Harvest	Struck and Lost	Take	Harvest	Struck and Lost	Take
Dillingham	high stratum	0	0	0	0.0	0.0	0.0
	low stratum	0	0	0	0.0	0.0	0.0
Manokotak	high stratum	0	0	0	0.0	0.0	0.0
	low stratum	0	0	0	0.0	0.0	0.0
Naknek	high stratum	0	0	0	0.0	0.0	0.0
	low stratum	0	0	0	0.0	0.0	0.0
Togiak	high stratum	0	0	0	0.0	0.0	0.0
	low stratum	0	0	0	0.0	0.0	0.0

REFERENCES

- Bigg, M. A. 1969. The harbour seal in British Columbia. Research Bulletin No. 172, Fisheries Research Board of Canada, Ottawa.
- Burns, J. J., K. J. Frost, and L. F. Lowry, editors. 1985. Marine mammal species accounts. Game Technical Bulletin No. 7, Alaska Department of Fish and Game, Juneau.
- Cochran, W. G. 1977. Sampling techniques. Third Edition. John Wiley and Sons, New York.
- Lestenkof, A. D. and P. A. Zavadil. 2001. 1999–2000 Steller sea lion subsistence hunting report. Ecosystem Conservation Office, Tribal Government, Aleut Community of St. Paul Island, Alaska.
- Lestenkof, A. D. and P. A. Zavadil. 2006. 2005 subsistence harvest of Steller sea lions on St. Paul Island, memorandum for the record. August 31, 2006 letter to Michael T. Williams, National Oceanic and Atmospheric Administration from Ecosystem Conservation Office, Tribal Government, Aleut Community of St. Paul Island, Alaska.
- Lestenkof, A. D., P. A. Zavadil, and D. J. Jones. 2007. 2006 subsistence harvest of Steller sea lions on St. Paul Island: memorandum for the record. April 11, 2007, letter to Michael T. Williams, National Oceanic and Atmospheric Administration from Ecosystem Conservation Office, Tribal Government, Aleut Community of St. Paul Island, Alaska.
- Lestenkof, A. D., P. A. Zavadil, and M. T. Williams. 2003. The subsistence harvest of Steller sea lions on St. Paul Island in 2001. Annual report provided to the National Marine Fisheries Service under contract NA16FX1420. National Marine Mammal Laboratory, Seattle, Washington.
- Pitcher, K. W. and D. G. Calkins. 1979. Biology of the harbor seal, *Phoca vitulina richardsi*, in the Gulf of Alaska. Outer Continental Shelf Environmental Assessment Program, Bureau of Land Management, U.S. Department of the Interior, Anchorage.
- Wolfe, R. J. 2001. The subsistence harvest of harbor seals and sea lions by Alaska Natives in 2000. Alaska Department of Fish and Game Division of Subsistence Technical Paper No. 266, Juneau.
- Wolfe, R. J., J. A. Fall, and R. T. Stanek. 2002. The subsistence harvest of harbor seals and sea lions by Alaska Natives in 2001. Alaska Department of Fish and Game Division of Subsistence Technical Paper No. 273, Juneau.
- Wolfe, R. J., J. A. Fall, and R. T. Stanek. 2003. The subsistence harvest of harbor seals and sea lions by Alaska Natives in 2002. Alaska Department of Fish and Game Division of Subsistence Technical Paper No. 277, Juneau.
- Wolfe, R. J., J. A. Fall, and R. T. Stanek. 2004. The subsistence harvest of harbor seal and sea lion by Alaska Natives in 2003. Alaska Department of Fish and Game Division of Subsistence Technical Paper No. 291, Juneau.

- Wolfe, R. J., J. A. Fall, and R. T. Stanek. 2005. The subsistence harvest of harbor seals and sea lions by Alaska Natives in 2004. Alaska Department of Fish and Game Division of Subsistence Technical Paper No. 303, Juneau.
- Wolfe, R. J., J. A. Fall, and R. T. Stanek. 2006. The subsistence harvest of harbor seals and sea lions by Alaska Natives in 2005. Alaska Department of Fish and Game Division of Subsistence Technical Paper No. 319, Juneau.
- Wolfe, R. J. and C. Mishler. 1993. The subsistence harvest of harbor seal and sea lion by Alaska Natives in 1992. Alaska Department of Fish and Game Division of Subsistence Technical Paper No. 229, Juneau.
- Wolfe, R. J. and C. Mishler. 1994. The subsistence harvest of harbor seal and sea lion by Alaska Natives in 1993. Alaska Department of Fish and Game Division of Subsistence Technical Paper No. 233, Juneau.
- Wolfe, R. J. and C. Mishler. 1995. The subsistence harvest of harbor seal and sea lion by Alaska Natives in 1994. Alaska Department of Fish and Game Division of Subsistence Technical Paper No. 236, Juneau.
- Wolfe, R. J. and C. Mishler. 1996. The subsistence harvest of harbor seal and sea lion by Alaska Natives in 1995. Alaska Department of Fish and Game Division of Subsistence Technical Paper No. 238, Juneau.
- Wolfe, R. J. and C. Mishler. 1997. The subsistence harvest of harbor seal and sea lion by Alaska Natives in 1996. Alaska Department of Fish and Game Division of Subsistence Technical Paper No. 241, Juneau.
- Wolfe, R. J. and C. Mishler. 1998. The subsistence harvest of harbor seal and sea lion by Alaska Natives in 1997. Alaska Department of Fish and Game Division of Subsistence Technical Paper No. 246, Juneau.
- Wolfe, R. J. and L. B. Hutchinson-Scarborough. 1999. The subsistence harvest of harbor seal and sea lion by Alaska Natives in 1998. Alaska Department of Fish and Game Division of Subsistence Technical Paper No. 250, Juneau.
- Wolfe, R. J., M. Kookesh, A. W. Paige, C. Scott, M. Smith, M. Turek, and C. J. Utermohle. 1999. Survey methodologies and reported sex compositions of harbor seal harvests of Alaska Natives, 1995–1997. Alaska Department of Fish and Game Division of Subsistence Technical Paper No. 254, Juneau.
- Zavadil, P. A., A. D. Lestenkof, M. T. Williams, and S. A. MacLean. 2003. The subsistence harvest of Steller sea lions on St. Paul Island in 2002. Unpublished report available from the Aleut Community of St. Paul Island, Alaska.
- Zavadil, P. A., A. D. Lestenkof, D. Jones, P. G. Tetoff, and M. T. Williams. 2004. The subsistence harvest of Steller sea lions on St. Paul Island in 2003. Unpublished report available from the Aleut Community of St. Paul Island, Alaska.
- Zavadil, P. A., D. Jones, A. D. Lestenkof, P. G. Tetoff, and B. W. Robson. 2006. The subsistence harvest of Steller sea lions on St. Paul Island in 2004. Unpublished report available from the Aleut Community of St. Paul Island, Alaska.

APPENDIX A
SURVEY INSTRUMENT USED
IN HOUSEHOLD INTERVIEWS, 2006

HARBOR SEAL

2005 MARINE MAMMAL SURVEY

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

If yes, how many people lived in your household in 2005? ()

CHECK IF APPROPRIATE No Contact ()

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

DID YOU OR MEMBERS OF YOUR HOUSEHOLD HUNT OR USE HARBOR SEALS IN 2005? Yes ___ No ___

DID YOUR HOUSEHOLD HUNT/USE SEA LIONS IN 2005?

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

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

During 2005, 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

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													

- 9. How many harbor seal were struck and lost by your household? [Enter number in total box.] _____
- 10. In which months were they struck and lost? [Enter numbers by month.] _____

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

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

SEA LION

2005 MARINE MAMMAL SURVEY

DID YOU OR MEMBERS OF YOUR HOUSEHOLD HUNT OR USE SEA LIONS IN 2005? YES _____ NO _____

(IF YES, PLEASE COMPLETE THE FOLLOWING QUESTIONS:)

(IF NO, THAT COMPLETES THIS SURVEY. THANK YOU.)

During 2005, did you or your household:

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

Yes	No

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

6. How many sea lions did your household kill and retrieve? [Enter total number in box.] _____

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

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

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

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

During 2005,

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

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

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

THANK YOU FOR YOUR COOPERATION

Community: _____ (_____) HHID: (_____) List: Hunter Random Interviewer: _____ Date: _____
 Alaska Native Harbor Seal Commission 345-0554 ADF&G, Division of Subsistence 267-2362 Aleut Marine Mammal Commission 581-5324

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, 2006

<i>SAMPLING DESIGN:</i>		<u>Total</u>
<i>CHAIN REFERRAL</i>	Total Referred Households	411
	Surveyed Households	351
	Sampling Fraction	85.4%
	Sample Household Members	1064
	Estimated Household Members	1239.4
	2000 U.S. Census Estimated Native Population	14070

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	2.5	592.7
Hunted	N/A	N/A	Total Number Struck and Lost	10.1	114.8
Harvested	N/A	N/A	Total Number Taken	12.6	707.6
Received	N/A	N/A			
Gave Away	N/A	N/A	Number Harvested Per Capita	0.00	0.04

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	0	0	0	0	1	0	0	0	0	2
Struck & Lost	0	0	0	0	0	0	0	0	0	3	3	0	2	8
Total Take	0	0	0	1	0	0	0	0	1	3	3	0	2	10
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	2.5
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	0.0	2.5	10.1
Total Take	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	1.4	3.8	3.8	0.0	2.5	12.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0		2.5
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1	0.0		10.1
Total Take	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	1.4	5.1	5.1	0.0		12.6
Total Take (%)	0.0%	0.0%	0.0%	9.2%	0.0%	0.0%	0.0%	0.0%	10.9%	40.0%	40.0%	0.0%		100%
Cum. Take	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	2.5	7.6	12.6	12.6		
Cum. Take (%)	0.0%	0.0%	0.0%	9.2%	9.2%	9.2%	9.2%	9.2%	20.1%	60.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	21	35	63	52	13	26	26	32	37	69	83	52	3	512
Struck & Lost	2	3	13	6	3	7	7	12	4	8	13	17	4	99
Total Take	23	38	76	58	16	33	33	44	41	77	96	69	7	611
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	23.0	38.8	72.8	59.4	14.9	29.0	30.1	35.7	41.7	83.0	99.3	60.2	5.0	592.7
Struck & Lost	2.0	3.0	17.4	6.8	3.3	7.9	8.3	15.5	4.5	8.6	13.7	19.8	4.1	114.8
Total Take	25.1	41.8	90.2	66.2	18.2	36.9	38.4	51.2	46.2	91.5	112.9	80.0	9.0	707.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	23.0	39.2	73.2	59.8	14.9	29.0	30.1	35.7	41.9	84.4	100.9	60.7		592.7
Struck & Lost	2.6	3.9	17.4	7.0	3.3	7.9	8.3	15.5	4.5	9.6	14.2	20.6		114.8
Total Take	25.6	43.0	90.6	66.9	18.2	36.9	38.4	51.2	46.5	94.0	115.1	81.3		707.6
Total Take (%)	3.6%	6.1%	12.8%	9.5%	2.6%	5.2%	5.4%	7.2%	6.6%	13.3%	16.3%	11.5%		100%
Cum. Take	25.6	68.6	159.2	226.1	244.3	281.2	319.6	370.7	417.2	511.2	626.3	707.6		
Cum. Take (%)	3.6%	9.7%	22.5%	32.0%	34.5%	39.7%	45.2%	52.4%	59.0%	72.3%	88.5%	100.0%		

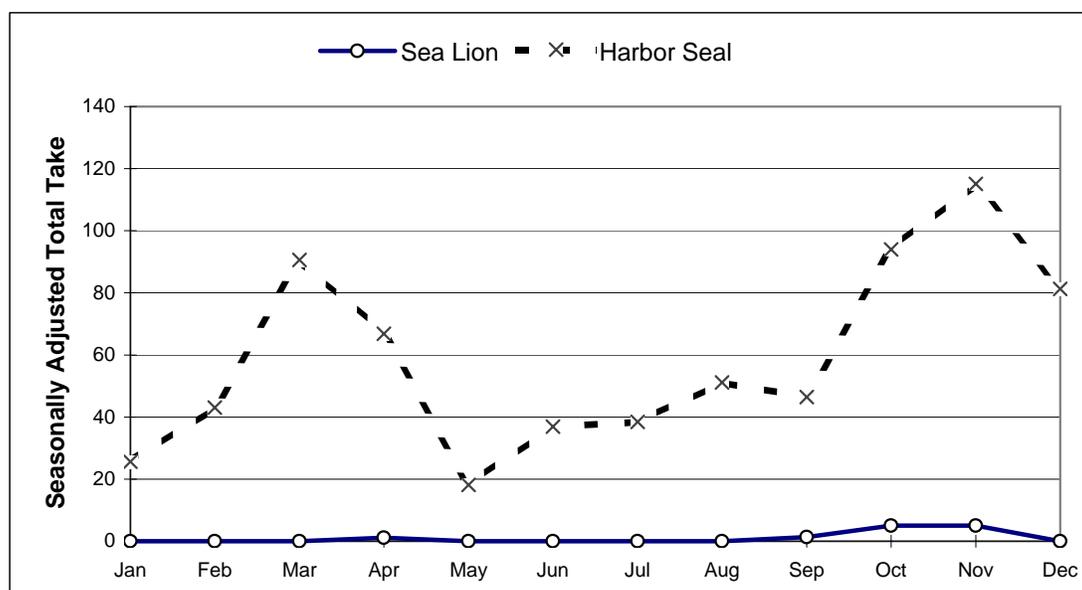
SOURCE: SAIFWC Household Surveys, 2007.

Table 1. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTHEAST ALASKA, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	1	50.0%	1.4	54.2%	271	52.9%	307.7	51.9%
Adult Female	0	0.0%	0.0	0.0%	79	15.4%	89.6	15.1%
Adult Unknown Sex	0	0.0%	0.0	0.0%	25	4.9%	29.0	4.9%
Juvenile Male	0	0.0%	0.0	0.0%	58	11.3%	65.6	11.1%
Juvenile Female	0	0.0%	0.0	0.0%	26	5.1%	28.1	4.7%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	11	2.1%	14.5	2.5%
Pup Male	0	0.0%	0.0	0.0%	2	0.4%	2.0	0.3%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	3	0.6%	3.0	0.5%
Male Unknown Age	0	0.0%	0.0	0.0%	19	3.7%	23.1	3.9%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	50.0%	1.2	45.8%	18	3.6%	30.0	5.1%
Total	2	100.0%	2.5	100.0%	512	100.0%	592.7	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	5.2	1.3	6.4	1992	1476.8	189.5	1666.2
1993	0.0	1.1	1.1	1993	1425.0	190.0	1615.0
1994	3.5	1.1	4.6	1994	1348.5	151.4	1499.9
1995	0.0	0.0	0.0	1995	1719.1	170.9	1890.0
1996	0.0	0.0	0.0	1996	1641.6	216.3	1857.8
1997	0.0	0.0	0.0	1997	1343.4	224.1	1567.4
1998	3.3	4.4	7.6	1998	1414.0	202.4	1616.4
2000	2.3	0.0	2.3	2000	1209.7	151.4	1361.1
2001	0.0	0.0	0.0	2001	1019.9	155.9	1175.7
2002	7.0	0.0	7.0	2002	877.0	129.8	1006.8
2003	2.3	4.6	6.9	2003	945.1	123.7	1068.8
2004	4.6	7.2	11.8	2004	743.0	102.3	845.3
2005	0.0	19.0	19.0	2005	545.5	88.7	634.2
2006	2.5	10.1	12.6	2006	592.7	114.8	707.6

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAIFWC Household Surveys, 2000-2007.

Table 2. SEA LION AND HARBOR SEAL HARVESTS: NORTH PACIFIC RIM, 2006

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	32	131	163
	Surveyed Households	18	92	110
	Sampling Fraction	56.3%	70.2%	67.5%
	Sample Household Members	48	294	342
	Estimated Household Members	88.1	391.2	479.3
	2000 U.S. Census Estimated Native Population	---	---	2094

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	17.0 411.1
Hunted	N/A	N/A	Total Number Struck and Lost	8.0 29.7
Harvested	N/A	N/A	Total Number Taken	25.0 440.8
Received	N/A	N/A		
Gave Away	N/A	N/A	Number Harvested Per Capita	0.01 0.20

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	2	2	2	0	0	0	0	0	0	2	3	0	2	13
Struck & Lost	0	3	2	1	0	0	0	0	0	0	0	0	0	6
Total Take	2	5	4	1	0	0	0	0	0	2	3	0	2	19
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.7	0.0	2.7	17.0
Struck & Lost	0.0	4.0	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
Total Take	2.7	6.7	5.3	1.3	0.0	0.0	0.0	0.0	0.0	2.7	3.7	0.0	2.7	25.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	3.2	4.2	0.0		17.0
Struck & Lost	0.0	4.0	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		8.0
Total Take	3.2	7.2	5.9	1.3	0.0	0.0	0.0	0.0	0.0	3.2	4.2	0.0		25.0
Total Take (%)	12.8%	28.8%	23.4%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	12.8%	16.9%	0.0%		100%
Cum. Take	3.2	10.4	16.3	17.6	17.6	17.6	17.6	17.6	17.6	20.8	25.0	25.0		
Cum. Take (%)	12.8%	41.6%	65.0%	70.3%	70.3%	70.3%	70.3%	70.3%	70.3%	83.1%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	19	17	13	12	11	24	33	23	28	10	11	33	39	273
Struck & Lost	1	1	0	0	1	4	4	3	4	0	1	2	0	21
Total Take	20	18	13	12	12	28	37	26	32	10	12	35	39	294
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	26.4	22.4	17.1	17.2	15.3	33.0	47.3	34.7	37.4	14.6	14.7	79.0	52.0	411.1
Struck & Lost	1.3	1.3	0.0	0.0	1.3	4.4	4.7	4.0	5.2	0.0	1.3	6.0	0.0	29.7
Total Take	27.7	23.7	17.1	17.2	16.6	37.4	52.0	38.7	42.7	14.6	16.0	85.0	52.0	440.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	31.3	27.0	20.4	21.0	19.5	38.0	52.7	39.3	41.6	17.9	19.2	83.2		411.1
Struck & Lost	1.3	1.3	0.0	0.0	1.3	4.4	4.7	4.0	5.2	0.0	1.3	6.0		29.7
Total Take	32.7	28.3	20.4	21.0	20.8	42.4	57.4	43.3	46.8	17.9	20.6	89.2		440.8
Total Take (%)	7.4%	6.4%	4.6%	4.8%	4.7%	9.6%	13.0%	9.8%	10.6%	4.1%	4.7%	20.2%		100%
Cum. Take	32.7	61.0	81.4	102.4	123.2	165.6	223.0	266.3	313.1	331.1	351.6	440.8		
Cum. Take (%)	7.4%	13.8%	18.5%	23.2%	27.9%	37.6%	50.6%	60.4%	71.0%	75.1%	79.8%	100.0%		

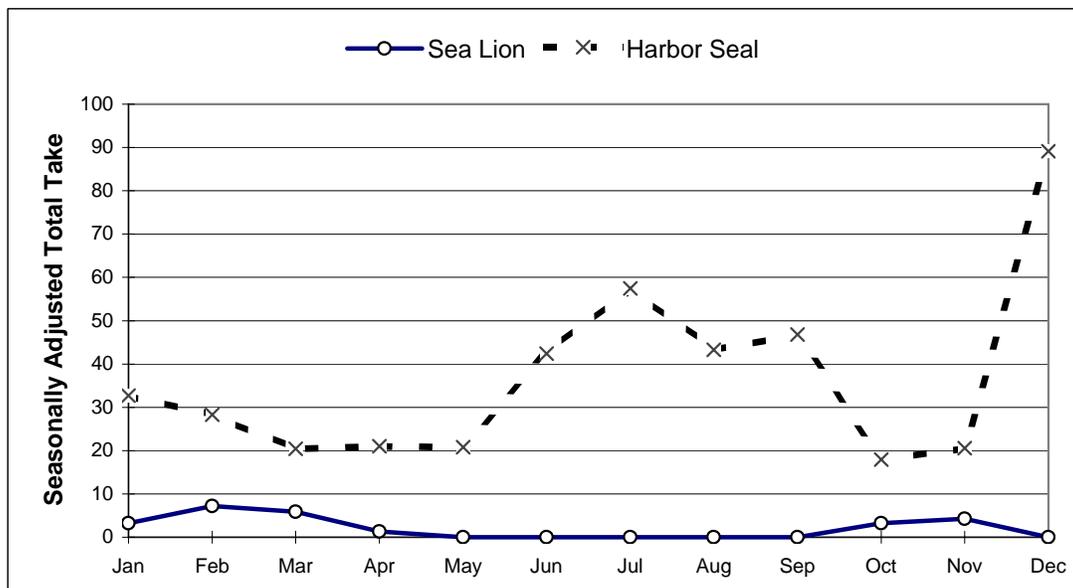
SOURCE: ANHSC Household Surveys, 2007.

Table 2. (cont.) SEA LION AND HARBOR SEAL HARVESTS: NORTH PACIFIC RIM, 2006

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%	31	11.4%	68.6	16.7%
Adult Female	1	7.7%	1.0	6.0%	11	4.0%	18.1	4.4%
Adult Unknown Sex	0	0.0%	0.0	0.0%	18	6.6%	24.5	6.0%
Juvenile Male	0	0.0%	0.0	0.0%	3	1.1%	5.2	1.3%
Juvenile Female	0	0.0%	0.0	0.0%	5	1.8%	11.6	2.8%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	33	12.1%	44.1	10.7%
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%	12	4.4%	18.6	4.5%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	12	92.3%	16.0	94.0%	160	58.6%	220.3	53.6%
Total	13	100.0%	17.0	100.0%	273	100.0%	411.1	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2007.

Table 3. SEA LION AND HARBOR SEAL HARVESTS: UPPER KENAI-COOK INLET, 2006

<i>SAMPLING DESIGN:</i>		<u>Total</u>
<i>CHAIN REFERRAL</i>	Total Referred Households	43
	Surveyed Households	25
	Sampling Fraction	58.1%
	Sample Household Members	76
	Estimated Household Members	132.2
	2000 U.S. Census Estimated Native Population	29486

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	0.0	37.6	
Hunted	N/A	N/A		Total Number Struck and Lost	0.0	13.3	
Harvested	N/A	N/A		Total Number Taken	0.0	50.9	
Received	N/A	N/A					
Gave Away	N/A	N/A		Number Harvested Per Capita	0.00	0.00	

SEA LION HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	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	0	1	0	4	1	1	1	2	0	11	21
Struck & Lost	0	0	3	0	0	0	0	0	0	0	2	0	3	8
Total Take	0	0	3	0	1	0	4	1	1	1	4	0	14	29
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.7	0.0	6.7	1.9	1.9	1.9	3.3	0.0	20.3	37.6
Struck & Lost	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	5.0	13.3
Total Take	0.0	0.0	5.0	0.0	1.7	0.0	6.7	1.9	1.9	1.9	6.7	0.0	25.3	50.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.6	0.6	0.6	0.6	4.2	0.6	14.9	2.4	2.4	2.4	7.7	0.6		37.6
Struck & Lost	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0		13.3
Total Take	0.6	0.6	8.6	0.6	4.2	0.6	14.9	2.4	2.4	2.4	13.1	0.6		50.9
Total Take (%)	1.1%	1.1%	16.9%	1.1%	8.2%	1.1%	29.2%	4.8%	4.8%	4.8%	25.7%	1.1%		100%
Cum. Take	0.6	1.2	9.8	10.3	14.5	15.1	29.9	32.4	34.8	37.3	50.3	50.9		
Cum. Take (%)	1.1%	2.3%	19.2%	20.3%	28.5%	29.6%	58.8%	63.6%	68.4%	73.2%	98.9%	100.0%		

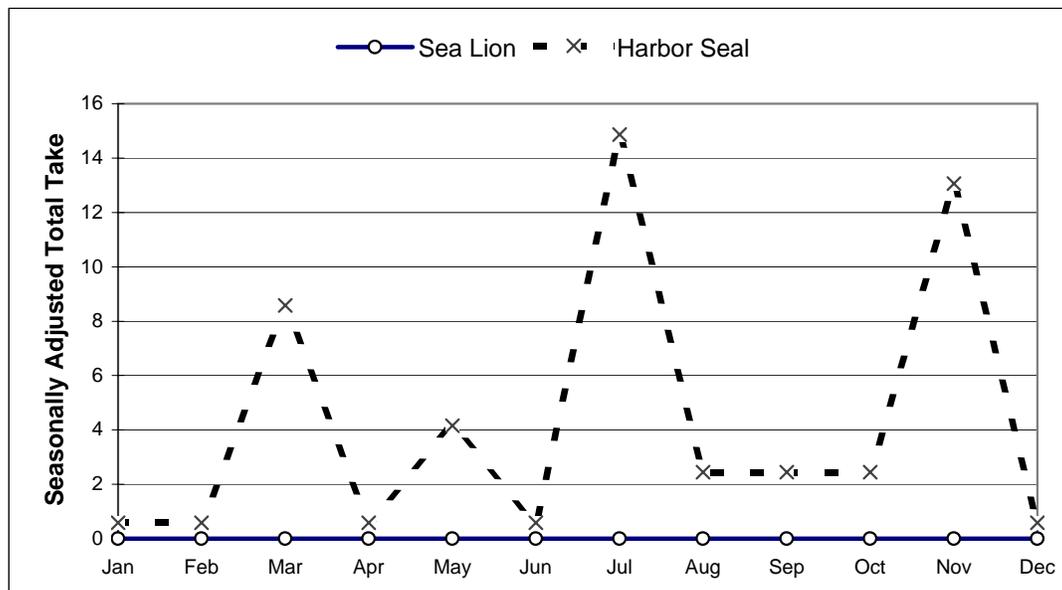
SOURCE: ANHSC Household Surveys, (Numbers based on 2005 harvest estimates).

Table 3. (cont.) SEA LION AND HARBOR SEAL HARVESTS: UPPER KENAI-COOK INLET, 2006

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	9.5%	3.3	8.9%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	14	66.7%	23.5	62.6%
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	---	2	9.5%	3.7	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	---	3	14.3%	7.0	18.6%
Total	0	---	0.0	---	21	100.0%	37.6	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	5.7	3.8	9.5	1992	51.6	0.0	51.6
1993	7.8	3.3	11.1	1993	49.2	5.6	54.8
1994	1.4	0.0	1.4	1994	16.2	0.0	16.2
1995	0.0	0.0	0.0	1995	3.7	0.0	3.7
1996	3.3	0.0	3.3	1996	64.3	8.8	73.1
1997	0.0	0.0	0.0	1997	101.7	8.8	110.5
1998	0.0	0.0	0.0	1998	79.2	13.5	92.7
2000	0.0	0.0	0.0	2000	79.2	13.5	92.7
2001	1.3	0.0	1.3	2001	91.2	2.7	93.9
2002	0.0	0.0	0.0	2002	75.2	8.0	83.2
2003	0.0	0.0	0.0	2003	90.8	15.0	105.8
2004	0.0	0.0	0.0	2004	56.6	13.4	69.9
2005	0.0	0.0	0.0	2005	37.6	13.3	50.9
2006	0.0	0.0	0.0	2006	37.6	13.3	50.9

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2006 (Numbers based on 2005 harvest estimates).

Table 4. SEA LION AND HARBOR SEAL HARVESTS: KODIAK ISLAND, 2006

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	77	133	210
	Surveyed Households	57	110	167
	Sampling Fraction	74.0%	82.7%	79.5%
	Sample Household Members	179	291	470
	Estimated Household Members	250.6	347.9	598.6
	2000 U.S. Census Estimated Native Population	---	---	1584

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>		
	Used	N/A	Total Number Harvested	Sea <u>Lion</u>
	Hunted	N/A	Total Number Struck and Lost	Harbor <u>Seal</u>
	Harvested	N/A	Total Number Taken	
	Received	N/A		
	Gave Away	N/A	Number Harvested Per Capita	
			7.0	210.3
			0.0	10.2
			7.0	220.5
			0.00	0.13

SEA LION HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	0	0	0	0	0	0	0	1	0	2	0	4
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	0	0	0	0	0	0	0	0	1	0	2	0	4
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	2.3	0.0	7.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	2.3	0.0	7.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	2.3		7.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	2.3		7.0
Total Take (%)	52.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.2%	0.0%	32.4%		100%
Cum. Take	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.7	4.7	7.0		
Cum. Take (%)	52.4%	52.4%	52.4%	52.4%	52.4%	52.4%	52.4%	52.4%	52.4%	67.6%	67.6%	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	7	4	7	5	3	5	3	9	24	21	28	15	0	131
Struck & Lost	1	0	0	0	0	0	0	0	2	3	2	1	0	9
Total Take	8	4	7	5	3	5	3	9	26	24	30	16	0	140
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	12.5	7.0	11.8	8.2	5.9	11.4	3.3	13.4	35.6	30.4	44.7	25.8	0.0	210.3
Struck & Lost	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.4	2.3	1.1	0.0	10.2
Total Take	13.7	7.0	11.8	8.2	5.9	11.4	3.3	13.4	37.9	33.9	47.0	27.0	0.0	220.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	12.5	7.0	11.8	8.2	5.9	11.4	3.3	13.4	35.6	30.4	44.7	25.8		210.3
Struck & Lost	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.4	2.3	1.1		10.2
Total Take	13.7	7.0	11.8	8.2	5.9	11.4	3.3	13.4	37.9	33.9	47.0	27.0		220.5
Total Take (%)	6.2%	3.2%	5.4%	3.7%	2.7%	5.2%	1.5%	6.1%	17.2%	15.4%	21.3%	12.2%		100%
Cum. Take	13.7	20.7	32.5	40.8	46.7	58.1	61.4	74.8	112.7	146.6	193.5	220.5		
Cum. Take (%)	6.2%	9.4%	14.8%	18.5%	21.2%	26.3%	27.9%	33.9%	51.1%	66.5%	87.8%	100.0%		

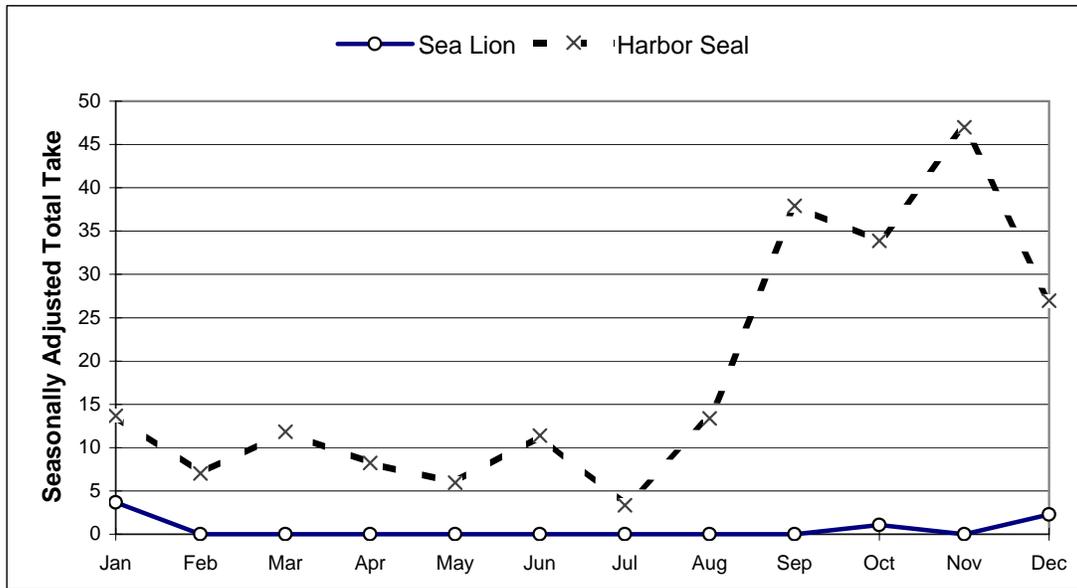
SOURCE: ANHSC Household Surveys, 2007.

Table 4. (cont.) SEA LION AND HARBOR SEAL HARVESTS: KODIAK ISLAND, 2006

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%	2.2	31.4%	70	53.4%	132.7	63.1%
Adult Female	1	25.0%	1.1	16.2%	20	15.3%	30.3	14.4%
Adult Unknown Sex	0	0.0%	0.0	0.0%	29	22.1%	33.6	16.0%
Juvenile Male	1	25.0%	3.7	52.4%	5	3.8%	5.5	2.6%
Juvenile Female	0	0.0%	0.0	0.0%	1	0.8%	1.1	0.5%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	1	0.8%	1.1	0.5%
Pup Male	0	0.0%	0.0	0.0%	1	0.8%	1.5	0.7%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	4	3.1%	4.4	2.1%
Total	4	100.0%	7.0	100.0%	131	100.0%	210.3	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	41.5	16.3	57.8	1992	225.5	13.1	238.6
1993	41.5	16.9	58.4	1993	171.7	20.1	191.8
1994	57.1	4.2	61.3	1994	168.2	3.6	171.7
1995	127.9	7.7	135.7	1995	223.0	9.2	232.2
1996	53.9	6.3	60.2	1996	185.2	4.9	190.1
1997	33.3	4.9	38.2	1997	189.8	18.3	208.2
1998	14.5	3.3	17.8	1998	174.0	3.7	177.7
2000	18.5	0.0	18.5	2000	185.9	7.3	193.2
2001	32.8	2.2	35.0	2001	155.6	4.8	160.4
2002	16.1	0.0	16.1	2002	152.1	10.2	162.3
2003	30.3	5.7	36.0	2003	172.7	13.0	185.6
2004	13.5	3.5	17.0	2004	172.2	15.7	188.0
2005	21.9	3.2	25.1	2005	305.1	10.6	315.7
2006	7.0	0.0	7.0	2006	210.3	10.2	220.5

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000- 2007.

Table 5. SEA LION AND HARBOR SEAL HARVESTS: SOUTH ALASKA PENINSULA, 2006

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	29	113	142
	Surveyed Households	21	90	111
	Sampling Fraction	72.4%	79.6%	78.2%
	Sample Household Members	52	242	294
	Estimated Household Members	64.0	313.3	377.2
	2000 U.S. Census Estimated Native Population	---	---	1228

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	17.5	52.5	
Hunted	N/A	N/A		Total Number Struck and Lost	1.1	20.6	
Harvested	N/A	N/A		Total Number Taken	18.5	73.0	
Received	N/A	N/A					
Gave Away	N/A	N/A		Number Harvested Per Capita	0.01	0.04	

<i>SEA LION HARVEST BY MONTH</i>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	1	0	0	8	4	0	0	0	0	0	0	0	14
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Total Take	1	1	0	0	8	4	0	0	0	0	0	0	1	15
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.9	1.9	0.0	0.0	8.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
Total Take	1.9	1.9	0.0	0.0	8.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	18.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.9	1.9	0.0	0.0	8.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0		17.5
Struck & Lost	0.0	0.0	0.0	0.0	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0		1.1
Total Take	1.9	1.9	0.0	0.0	9.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0		18.5
Total Take (%)	10.1%	10.1%	0.0%	0.0%	50.7%	29.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100%
Cum. Take	1.9	3.8	3.8	3.8	13.1	18.5	18.5	18.5	18.5	18.5	18.5	18.5		
Cum. Take (%)	10.1%	20.2%	20.2%	20.2%	70.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	2	0	7	7	1	0	3	4	8	8	2	0	44
Struck & Lost	0	0	0	0	1	1	0	1	2	3	4	3	1	16
Total Take	2	2	0	7	8	2	0	4	6	11	12	5	1	60
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.4	2.4	0.0	7.7	7.5	1.9	0.0	4.1	4.6	9.6	9.8	2.6	0.0	52.5
Struck & Lost	0.0	0.0	0.0	0.0	1.2	1.9	0.0	1.2	2.4	3.9	5.0	3.9	1.2	20.6
Total Take	2.4	2.4	0.0	7.7	8.7	3.8	0.0	5.3	7.0	13.4	14.8	6.5	1.2	73.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.4	2.4	0.0	7.7	7.5	1.9	0.0	4.1	4.6	9.6	9.8	2.6		52.5
Struck & Lost	0.0	0.0	0.0	0.0	1.3	1.9	0.0	1.3	2.6	4.1	5.3	4.1		20.6
Total Take	2.4	2.4	0.0	7.7	8.8	3.8	0.0	5.4	7.2	13.7	15.1	6.7		73.0
Total Take (%)	3.3%	3.3%	0.0%	10.5%	12.1%	5.1%	0.0%	7.3%	9.8%	18.7%	20.7%	9.2%		100%
Cum. Take	2.4	4.8	4.8	12.4	21.3	25.0	25.0	30.4	37.6	51.2	66.3	73.0		
Cum. Take (%)	3.3%	6.5%	6.5%	17.0%	29.1%	34.2%	34.2%	41.6%	51.4%	70.1%	90.8%	100.0%		

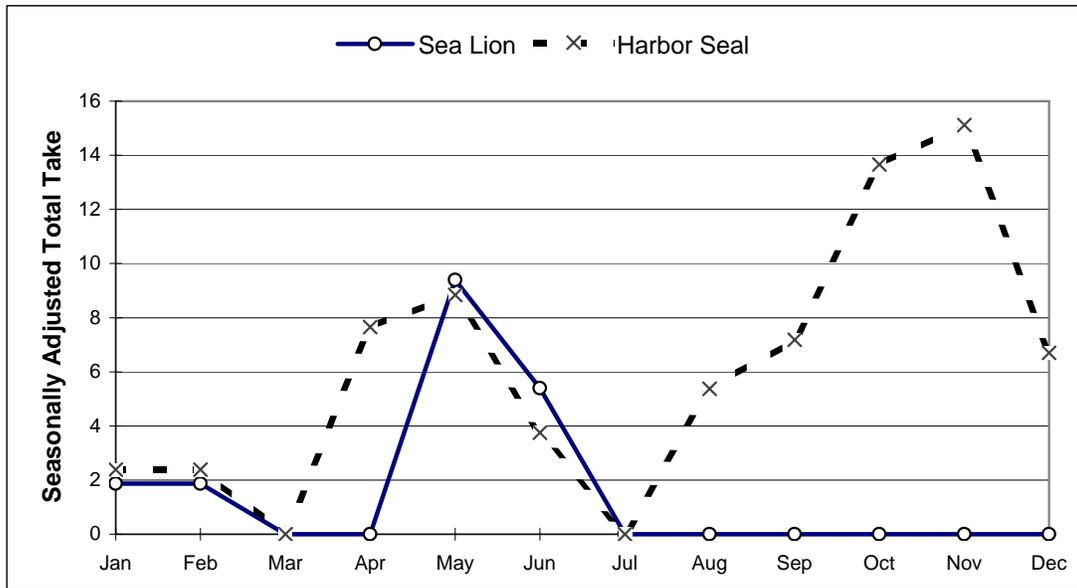
SOURCE: AMMC Household Surveys 2007; BBNA Household Surveys, 2007.

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

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	7	50.0%	7.5	43.1%	15	34.1%	19.4	37.0%
Adult Female	4	28.6%	4.3	24.7%	10	22.7%	11.0	21.0%
Adult Unknown Sex	2	14.3%	3.8	21.5%	3	6.8%	3.2	6.1%
Juvenile Male	0	0.0%	0.0	0.0%	7	15.9%	8.2	15.5%
Juvenile Female	0	0.0%	0.0	0.0%	5	11.4%	6.0	11.4%
Juvenile Unknown Sex	1	7.1%	1.9	10.7%	1	2.3%	1.2	2.3%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	3	6.8%	3.6	6.8%
Total	14	100.0%	17.5	100.0%	44	100.0%	52.5	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

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

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

AMMC Household Surveys; BBNA Household Surveys, 2000-2007.

Table 6. SEA LION AND HARBOR SEAL HARVESTS: ALEUTIAN ISLANDS, 2006

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	26	53	79
	Surveyed Households	18	36	54
	Sampling Fraction	69.2%	67.9%	68.4%
	Sample Household Members	45	78	123
	Estimated Household Members	69.0	114.8	183.8
	2000 U.S. Census Estimated Native Population	---	---	743

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	63.4	54.4	
Hunted	N/A	N/A	Total Number Struck and Lost	19.4	8.6	
Harvested	N/A	N/A	Total Number Taken	82.8	63.0	
Received	N/A	N/A				
Gave Away	N/A	N/A	Number Harvested Per Capita	0.09	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	3	4	3	1	1	2	1	3	2	3	4	2	4	33
Struck & Lost	0	2	0	0	0	0	1	0	0	1	2	2	2	10
Total Take	3	6	3	1	1	2	2	3	2	4	6	4	6	43
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	6.0	8.0	6.0	2.0	2.0	3.2	1.2	5.6	3.6	6.0	8.0	4.0	7.8	63.4
Struck & Lost	0.0	3.8	0.0	0.0	0.0	0.0	1.8	0.0	0.0	2.0	4.0	3.8	4.0	19.4
Total Take	6.0	11.8	6.0	2.0	2.0	3.2	3.0	5.6	3.6	8.0	12.0	7.8	11.8	82.8
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	6.8	9.0	6.8	2.3	2.3	3.5	1.2	6.8	4.5	6.8	9.0	4.5		63.4
Struck & Lost	0.0	4.6	0.0	0.0	0.0	0.0	1.8	0.0	0.0	2.8	5.6	4.6		19.4
Total Take	6.8	13.6	6.8	2.3	2.3	3.5	3.0	6.8	4.5	9.6	14.6	9.1		82.8
Total Take (%)	8.2%	16.5%	8.2%	2.7%	2.7%	4.2%	3.6%	8.2%	5.4%	11.6%	17.7%	11.0%		100%
Cum. Take	6.8	20.4	27.2	29.5	31.7	35.2	38.2	45.0	49.5	59.1	73.7	82.8		
Cum. Take (%)	8.2%	24.7%	32.9%	35.6%	38.3%	42.5%	46.1%	54.3%	59.7%	71.3%	89.0%	100.0%		

<i>HARBOR SEAL HARVEST BY MONTH</i>													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
<i>REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)</i>														
Harvest	3	4	5	1	0	0	1	8	1	1	2	3	8	37
Struck & Lost	0	0	0	0	0	0	0	1	0	0	0	1	3	5
Total Take	3	4	5	1	0	0	1	9	1	1	2	4	11	42
<i>ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	4.6	6.8	6.0	1.2	0.0	0.0	1.0	8.8	1.8	1.0	4.0	3.2	16.0	54.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	2.0	5.6	8.6
Total Take	4.6	6.8	6.0	1.2	0.0	0.0	1.0	9.8	1.8	1.0	4.0	5.2	21.6	63.0
<i>ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)</i>														
Harvest	4.6	13.2	9.2	1.2	0.0	0.0	1.0	8.8	1.8	1.0	10.4	3.2		54.4
Struck & Lost	1.4	0.7	0.0	0.0	0.0	0.0	0.0	1.7	0.7	0.0	0.0	4.0		8.6
Total Take	6.0	13.9	9.2	1.2	0.0	0.0	1.0	10.5	2.5	1.0	10.4	7.2		63.0
Total Take (%)	9.6%	22.1%	14.6%	1.9%	0.0%	0.0%	1.6%	16.7%	4.0%	1.6%	16.5%	11.4%		100%
Cum. Take	6.0	20.0	29.2	30.4	30.4	30.4	31.4	41.9	44.4	45.4	55.8	63.0		
Cum. Take (%)	9.6%	31.7%	46.3%	48.2%	48.2%	48.2%	49.8%	66.5%	70.5%	72.1%	88.6%	100.0%		

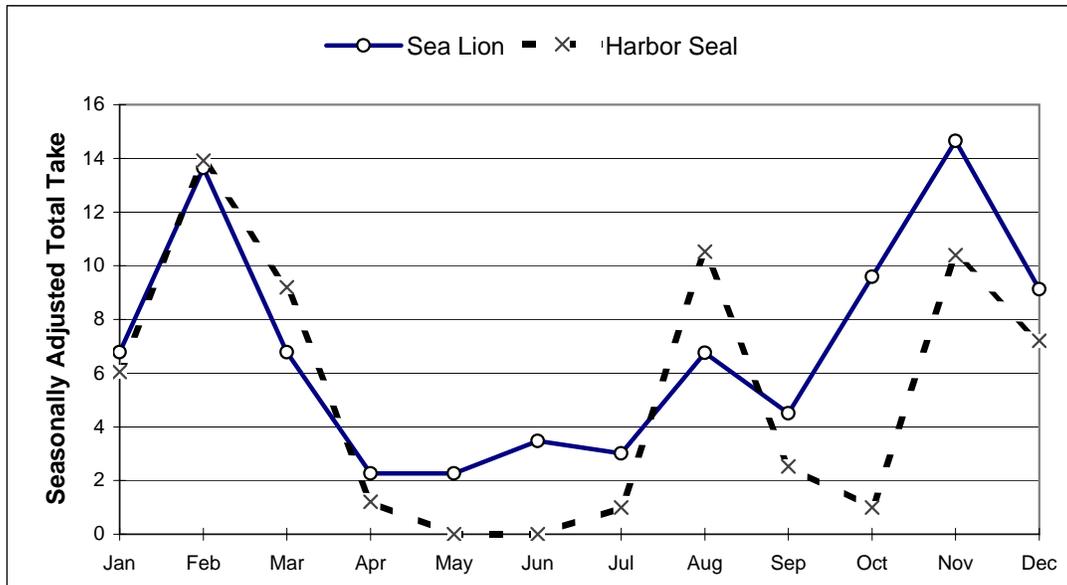
SOURCE: AMMC Household Surveys, 2007.

Table 6. (cont.) SEA LION AND HARBOR SEAL HARVESTS: ALEUTIAN ISLANDS, 2006

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	17	51.5%	33.2	52.4%	25	67.6%	37.2	68.4%
Adult Female	4	12.1%	6.8	10.7%	2	5.4%	2.8	5.1%
Adult Unknown Sex	2	6.1%	3.6	5.7%	1	2.7%	1.8	3.3%
Juvenile Male	2	6.1%	4.0	6.3%	3	8.1%	4.8	8.8%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	3.0%	1.8	2.8%	1	2.7%	1.8	3.3%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	7	21.2%	14.0	22.1%	5	13.5%	6.0	11.0%
Total	33	100.0%	63.4	100.0%	37	100.0%	54.4	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2000-2007.

Table 7. SEA LION AND HARBOR SEAL HARVESTS: PRIBILOF ISLANDS, 2006

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	N/A	N/A	N/A
	Surveyed Households	N/A	N/A	N/A
	Sampling Fraction	N/A	N/A	N/A
	Sample Household Members	N/A	N/A	N/A
	Estimated Household Members	N/A	N/A	N/A
	2000 U.S. Census Estimated Native Population	---	---	600

HARVEST AND USE INFORMATION

<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	29.3	N/A
Hunted	N/A	N/A	Total Number Struck and Lost	10.7	N/A
Harvested	N/A	N/A	Total Number Taken	40.0	N/A
Received	N/A	N/A			
Gave Away	N/A	N/A	Number Harvested Per Capita	0.05	N/A

SEA LION HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	3	0	0	0	0	0	1	0	0	0	20	24
Struck & Lost	0	0	1	0	0	0	0	0	0	1	0	0	6	8
Total Take	0	0	4	0	0	0	0	0	1	1	0	0	26	32
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	20.0	29.3
Struck & Lost	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	6.0	10.7
Total Take	0.0	0.0	9.3	0.0	0.0	0.0	0.0	0.0	2.3	2.3	0.0	0.0	26.0	39.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	20.0	20.0
Struck & Lost	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	6.0	10.6
Total Take	0.0	0.0	9.3	0.0	0.0	0.0	0.0	0.0	2.3	2.3	0.0	0.0	26.0	39.9
Total Take (%)	0.0%	0.0%	23.3%	0.0%	0.0%	0.0%	0.0%	0.0%	5.8%	5.8%	0.0%	0.0%		35%
Cum. Take	0.0	0.0	9.3	9.3	9.3	9.3	9.3	9.3	11.6	13.9	13.9	13.9		
Cum. Take (%)	0.0%	0.0%	66.9%	66.9%	66.9%	66.9%	66.9%	66.9%	83.5%	100.0%	100.0%	100.0%		

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

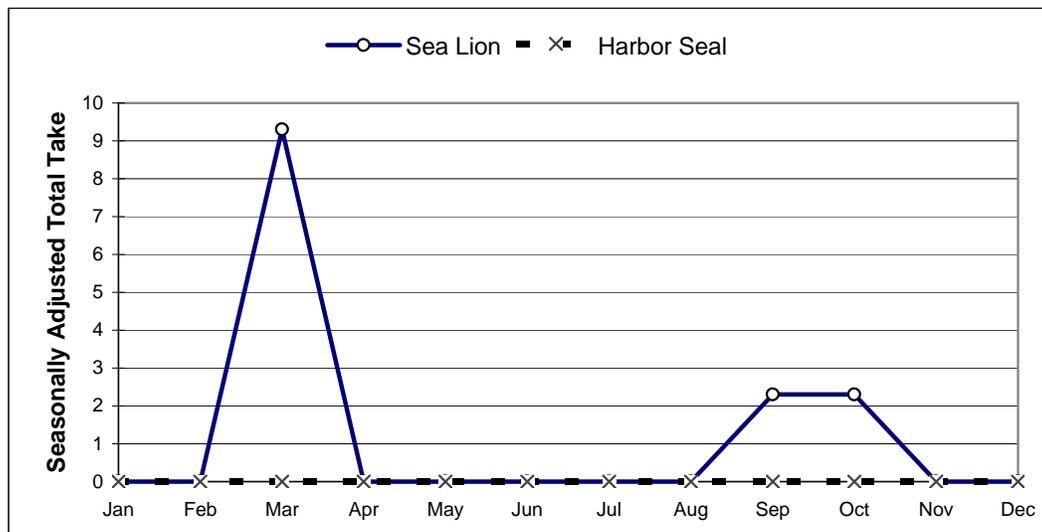
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Subsistence Study and Monitor System for Sea Lions and Harbor Seals in Alaska with the exception of St. Paul Sea Lion: Zavadil, P.A., A. D. Lestenkof, M. T. Williams, and S. A. MacLean. 2004. The subsistence harvest of Steller sea lions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

Table 7. (cont.) SEA LION AND HARBOR SEAL HARVESTS: PRIBILOF ISLANDS, 2006

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	4.2%	2.3	7.8%	N/A	---	N/A	---
Adult Female	0	0.0%	0.0	0.0%	N/A	---	N/A	---
Adult Unknown Sex	0	0.0%	0.0	0.0%	N/A	---	N/A	---
Juvenile Male	21	87.5%	25.0	85.3%	N/A	---	N/A	---
Juvenile Female	2	8.3%	2.0	6.8%	N/A	---	N/A	---
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	N/A	---	N/A	---
Pup Male	0	0.0%	0.0	0.0%	N/A	---	N/A	---
Pup Female	0	0.0%	0.0	0.0%	N/A	---	N/A	---
Pup Unknown Sex	0	0.0%	0.0	0.0%	N/A	---	N/A	---
Male Unknown Age	0	0.0%	0.0	0.0%	N/A	---	N/A	---
Female Unknown Age	0	0.0%	0.0	0.0%	N/A	---	N/A	---
Unknown Sex and Age	0	0.0%	0.0	0.0%	N/A	---	N/A	---
Total	24	100.0%	29.3	100.0%	N/A	---	N/A	---

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	176.6	120.2	296.8	1992	2.3	1.2	3.5
1993	165.4	80.0	245.4	1993	2.3	1.2	3.5
1994	149.8	43.5	193.3	1994	7.3	0.0	7.3
1995	57.6	10.3	67.9	1995	2.5	0.0	2.5
1996	32.2	14.2	46.4	1996	0.0	0.0	0.0
1997	45.5	10.4	55.9	1997	0.0	0.0	0.0
1998	52.7	25.4	78.1	1998	4.6	0.0	4.6
2000	29.1	14.2	43.3	2000	N/A	N/A	N/A
2001	19.0	19.0	38.0	2001	N/A	N/A	N/A
2002	24.0	19.0	43.0	2002	N/A	N/A	N/A
2003	22.3	9.7	32.0	2003	N/A	N/A	N/A
2004	22.3	9.7	32.0	2004	N/A	N/A	N/A
2005	28.3	7.7	35.0	2005	N/A	N/A	N/A
2006	29.3	10.7	39.9	2006	N/A	N/A	N/A

SOURCE: 1992-1998 Alaska Department of Fish and Game, Division of Subsistence, Household Surveys; 2000-2004 Zavadil et al., 2006; 2005 Lestenkof and Zavadil, 2006; 2006 Lestenkof et al., 2007.

Table 8. SEA LION AND HARBOR SEAL HARVESTS: SOUTH BRISTOL BAY, 2006

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	28	193	221
	Surveyed Households	26	119	145
	Sampling Fraction	92.9%	61.7%	65.6%
	Sample Household Members	57	327	384
	Estimated Household Members	61.4	558.5	619.9
	2000 U.S. Census Estimated Native Population	---	---	951

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	0.0	45.4		
Hunted	N/A	N/A	Total Number Struck and Lost	0.0	14.0		
Harvested	N/A	N/A	Total Number Taken	0.0	59.4		
Received	N/A	N/A					
Gave Away	N/A	N/A	Number Harvested Per Capita	0.00	0.05		

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

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	12	5	4	13	5	0	0	0	0	39
Struck & Lost	0	0	0	0	0	5	2	4	2	0	0	0	0	13
Total Take	0	0	0	0	12	10	6	17	7	0	0	0	0	52
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	13.3	5.4	4.1	16.9	5.7	0.0	0.0	0.0	0.0	45.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	5.4	2.2	4.3	2.2	0.0	0.0	0.0	0.0	14.0
Total Take	0.0	0.0	0.0	0.0	13.3	10.8	6.2	21.2	7.9	0.0	0.0	0.0	0.0	59.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	13.3	5.4	4.1	16.9	5.7	0.0	0.0	0.0	0.0	45.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	5.4	2.2	4.3	2.2	0.0	0.0	0.0	0.0	14.0
Total Take	0.0	0.0	0.0	0.0	13.3	10.8	6.2	21.2	7.9	0.0	0.0	0.0	0.0	59.4
Total Take (%)	0.0%	0.0%	0.0%	0.0%	22.3%	18.2%	10.5%	35.7%	13.2%	0.0%	0.0%	0.0%	0.0%	100%
Cum. Take	0.0	0.0	0.0	0.0	13.3	24.0	30.3	51.5	59.4	59.4	59.4	59.4	59.4	59.4
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	22.3%	40.5%	51.0%	86.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100%

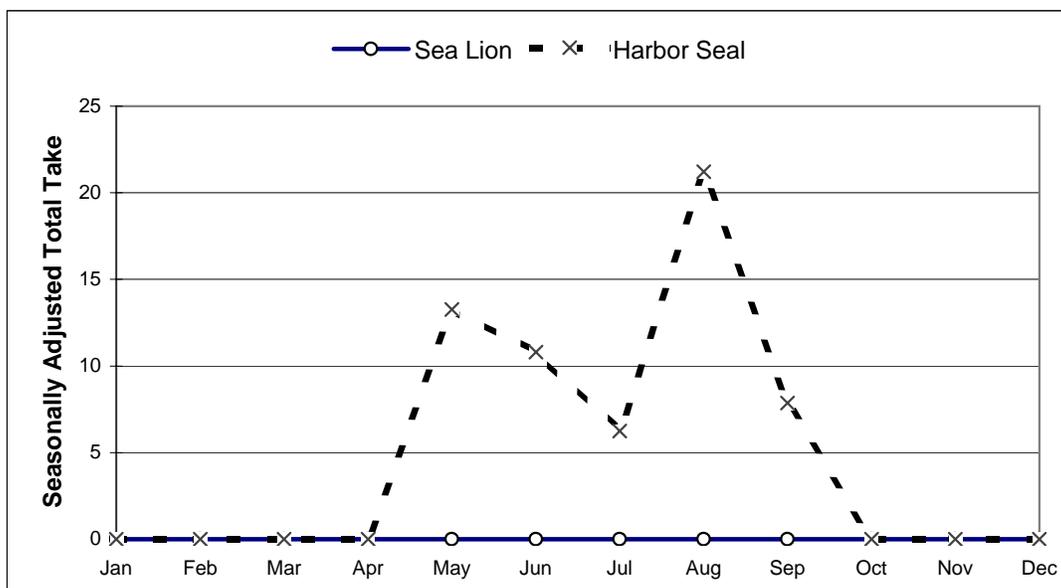
SOURCE: BBNA Household Surveys, 2007.

Table 8. (cont.) SEA LION AND HARBOR SEAL HARVESTS: SOUTH BRISTOL BAY, 2006

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	30.8%	13.1	28.9%
Adult Female	0	---	0.0	---	9	23.1%	9.9	21.9%
Adult Unknown Sex	0	---	0.0	---	5	12.8%	7.3	16.1%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	3	7.7%	4.2	9.3%
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	---	10	25.6%	10.8	23.8%
Total	0	---	0.0	---	39	100.0%	45.4	100%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	99.0	68.6	167.6
1993	0.0	0.0	0.0	1993	73.6	57.3	130.9
1994	0.0	0.0	0.0	1994	121.6	59.3	180.9
1995	0.0	0.0	0.0	1995	68.3	28.3	96.6
1996	0.0	0.0	0.0	1996	63.8	44.2	108.0
1997	0.0	0.0	0.0	1997	107.8	66.3	174.1
1998	0.0	0.0	0.0	1998	62.2	34.3	96.5
2000	0.0	0.0	0.0	2000	55.4	17.6	73.0
2001	0.0	0.0	0.0	2001	52.9	19.8	72.7
2002	0.0	0.0	0.0	2002	79.7	36.8	116.6
2003	0.0	0.0	0.0	2003	35.6	15.3	50.9
2004	0.0	0.0	0.0	2004	58.5	31.2	89.6
2005	0.0	0.0	0.0	2005	40.3	30.8	71.1
2006	0.0	0.0	0.0	2006	45.4	14.0	59.4

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2000-2007.

Table 9. SEA LION AND HARBOR SEAL HARVESTS: NORTH BRISTOL BAY, 2006

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>MIXED</i>	Total Household Universe	136	213	349
	Surveyed Households	123	188	311
	Sampling Fraction	90.4%	88.3%	89.1%
	Sample Household Members	536	707	1243
	Estimated Household Members	583.2	808.0	1391.2
	2000 U.S. Census Estimated Native Population	---	---	2952

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	0.0	19.1	139.8
Hunted	N/A	N/A	Total Number Struck and Lost	0.0	9.9	30.1
Harvested	N/A	N/A	Total Number Taken	0.0	29.0	169.8
Received	N/A	N/A				
Gave Away	N/A	N/A	Number Harvested Per Capita	0.00	0.01	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
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH														
	<u>Spotted Seal</u>					<u>Harbor Seal</u>				<u>Spotted Seal</u>			Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	1	12	38	27	1	2	2	13	17	18	7	0	139
Struck & Lost	0	1	0	4	7	0	1	3	5	11	4	0	0	36
Total Take	1	2	12	42	34	1	3	5	18	28	22	7	0	175
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	1.0	13.5	48.4	30.1	1.0	2.1	2.3	13.7	18.4	19.5	7.7	0.0	158.9
Struck & Lost	0.0	1.2	0.0	4.8	8.3	0.0	1.0	3.1	5.8	11.5	4.2	0.0	0.0	39.9
Total Take	1.0	2.3	13.5	53.2	38.4	1.0	3.1	5.4	19.5	29.9	23.8	7.7	0.0	198.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	1.0	13.5	48.4	30.1	1.0	2.1	2.3	13.7	18.4	19.5	7.7		158.9
Struck & Lost	0.0	1.2	0.0	4.8	8.3	0.0	1.0	3.1	5.8	11.5	4.2	0.0		39.9
Total Take	1.0	2.3	13.5	53.2	38.4	1.0	3.1	5.4	19.5	29.9	23.8	7.7		198.9
Total Take (%)	0.5%	1.2%	6.8%	26.8%	19.3%	0.5%	1.6%	2.7%	9.8%	15.0%	11.9%	3.9%		100.0%
Cum. Take	1.0	3.3	16.8	70.1	108.5	109.5	112.6	118.0	137.5	167.4	191.2	198.9		
Cum. Take (%)	0.5%	1.7%	8.5%	35.2%	54.5%	55.1%	56.6%	59.3%	69.1%	84.2%	96.1%	100.0%		

SOURCE: BBNA Household Surveys, 2007.

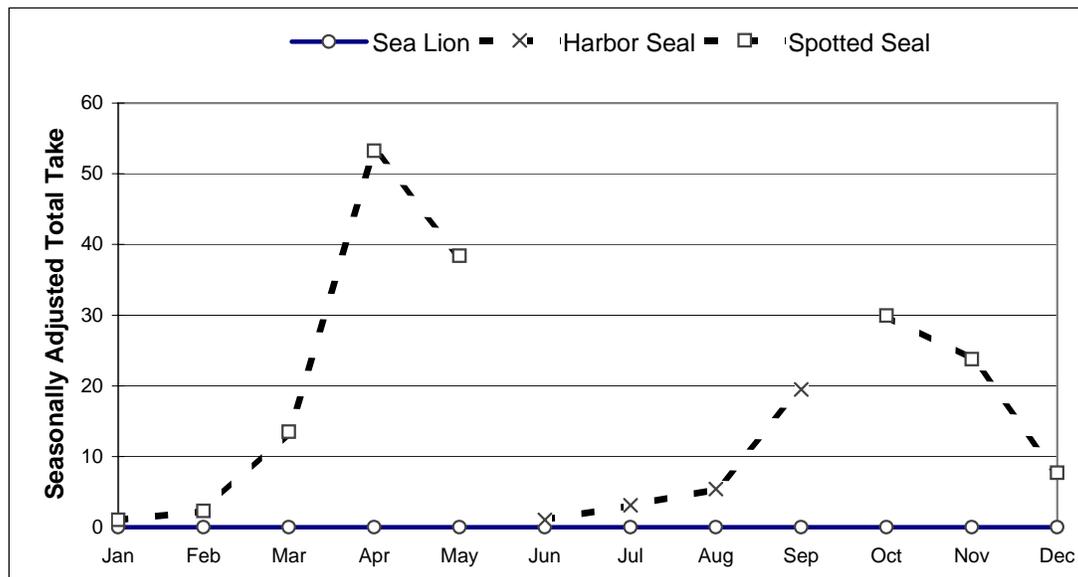
Table 9. (cont.) SEA LION AND HARBOR SEAL HARVESTS: NORTH BRISTOL BAY, 2006

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	11.1%	2.3	12.0%	15	12.4%	18.6	13.3%
Adult Female	0	---	0.0	---	1	5.6%	1.0	5.4%	3	2.5%	4.0	2.9%
Adult Unknown Sex	0	---	0.0	---	2	11.1%	2.1	10.8%	33	27.3%	36.9	26.4%
Juvenile Male	0	---	0.0	---	3	16.7%	3.3	17.4%	10	8.3%	10.9	7.8%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%	8	6.6%	8.5	6.1%
Juvenile Unknown Sex	0	---	0.0	---	7	38.9%	7.3	38.0%	18	14.9%	18.9	13.5%
Pup Male	0	---	0.0	---	1	5.6%	1.0	5.5%	3	2.5%	3.5	2.5%
Pup Female	0	---	0.0	---	1	5.6%	1.0	5.5%	1	0.8%	1.1	0.8%
Pup Unknown Sex	0	---	0.0	---	1	5.6%	1.0	5.5%	9	7.4%	9.7	6.9%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%	2	1.7%	2.6	1.8%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%	1	0.8%	1.0	0.7%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%	18	14.9%	24.2	17.3%
Total	0	---	0.0	---	18	100.0%	19.1	100.0%	121	100.0%	139.8	100%

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/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
1998	0.0	0.0	0.0	1998	33.2	3.6	36.8	1998	145.9	25.4	171.3
2000	0.0	0.0	0.0	2000	10.4	1.1	11.6	2000	217.0	40.4	257.5
2001	0.0	0.0	0.0	2001	8.8	1.2	10.0	2001	105.9	20.8	126.6
2002	0.0	0.0	0.0	2002	15.5	7.4	23.0	2002	184.5	44.6	229.1
2003	0.0	0.0	0.0	2003	29.8	1.4	31.2	2003	52.3	10.0	62.3
2004	1.2	0.0	1.2	2004	17.6	11.7	29.3	2004	123.8	46.5	170.4
2005	0.0	0.0	0.0	2005	23.9	8.9	32.7	2005	170.5	30.7	201.2
2006	0.0	0.0	0.0	2006	19.1	9.9	29.0	2006	139.8	30.1	169.8

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2000-2007.

APPENDIX C

SUBSISTENCE TAKES OF HARBOR SEAL AND SEA LION BY COMMUNITY

SOUTHEAST ALASKA

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

NORTH PACIFIC RIM

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

UPPER KENAI-COOK INLET

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

KODIAK ISLAND

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

SOUTH ALASKA PENINSULA

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

ALEUTIAN ISLANDS

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

PRIBILOF ISLANDS

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

SOUTH BRISTOL BAY

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

NORTH BRISTOL BAY

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

Table 1. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Angoon, 2006

**SAMPLING DESIGN:
CHAIN REFERRAL**

Total Referred Households	37
Surveyed Households	37
Sampling Fraction	100.0%
Sample Household Members	124
Estimated Household Members	124.0
2000 U.S. Census Estimated Native Population	494

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea Lion	Harbor Seal
Used	0.0%	97.3%
Hunted	0.0%	48.6%
Harvested	0.0%	48.6%
Received	0.0%	81.1%
Gave Away	0.0%	48.6%

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

	Sea Lion	Harbor Seal
Total Number Harvested	0.0	46.0
Total Number Struck and Lost	0.0	8.0
Total Number Taken	0.0	54.0
Number Harvested Per Capita	0.00	0.09

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	1	2	9	1	0	0	0	6	0	4	15	8	0	46
Struck & Lost	0	0	1	0	0	0	0	1	0	0	3	3	0	8
Total Take	1	2	10	1	0	0	0	7	0	4	18	11	0	54
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	2.0	9.0	1.0	0.0	0.0	0.0	6.0	0.0	4.0	15.0	8.0	0.0	46.0
Struck & Lost	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	3.0	3.0	0.0	8.0
Total Take	1.0	2.0	10.0	1.0	0.0	0.0	0.0	7.0	0.0	4.0	18.0	11.0	0.0	54.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	2.0	9.0	1.0	0.0	0.0	0.0	6.0	0.0	4.0	15.0	8.0	0.0	46.0
Struck & Lost	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	3.0	3.0	0.0	8.0
Total Take	1.0	2.0	10.0	1.0	0.0	0.0	0.0	7.0	0.0	4.0	18.0	11.0	0.0	54.0
Total Take (%)	1.9%	3.7%	18.5%	1.9%	0.0%	0.0%	0.0%	13.0%	0.0%	7.4%	33.3%	20.4%	0.0%	100.0%
Cum. Take	1.0	3.0	13.0	14.0	14.0	14.0	14.0	21.0	21.0	25.0	43.0	54.0	54.0	54.0
Cum. Take (%)	1.9%	5.6%	24.1%	25.9%	25.9%	25.9%	25.9%	38.9%	38.9%	46.3%	79.6%	100.0%	100.0%	100.0%

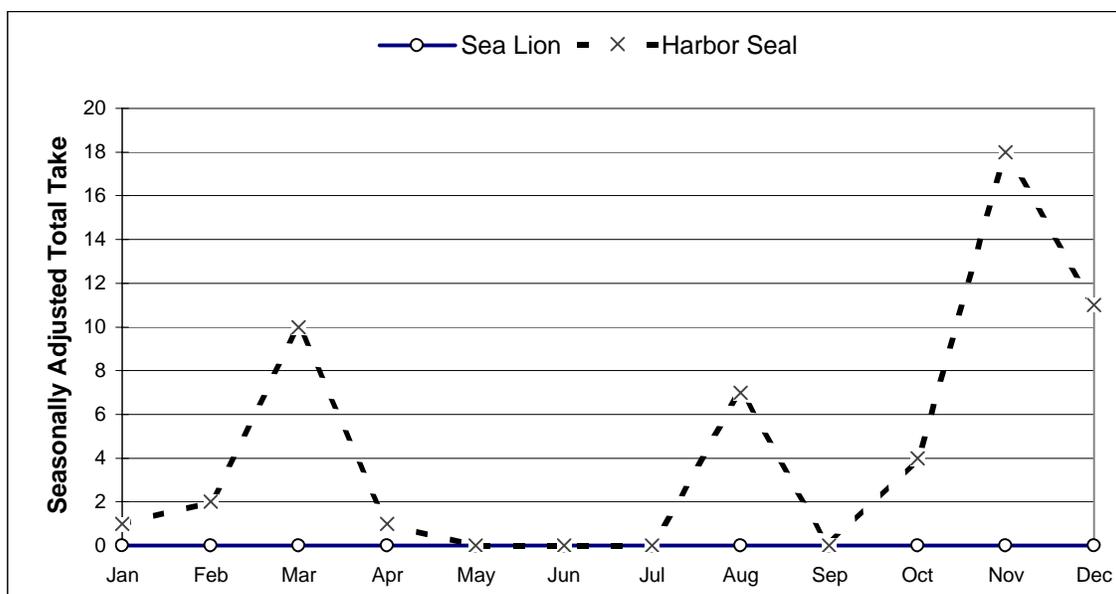
SOURCE: SAIFWC Household Surveys, 2007.

Table 1. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Angoon, 2006

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	---	26	56.5%	26.0	56.5%
Adult Female	0	---	0.0	---	1	2.2%	1.0	2.2%
Adult Unknown Sex	0	---	0.0	---	8	17.4%	8.0	17.4%
Juvenile Male	0	---	0.0	---	2	4.3%	2.0	4.3%
Juvenile Female	0	---	0.0	---	2	4.3%	2.0	4.3%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	1	2.2%	1.0	2.2%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	3	6.5%	3.0	6.5%
Male Unknown Age	0	---	0.0	---	3	6.5%	3.0	6.5%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	46	100.0%	46.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAIFWC Household Surveys, 2000-2007.

Table 2. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Craig, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	20
	Surveyed Households	15
	Sampling Fraction	75.0%
	Sample Household Members	32
	Estimated Household Members	42.7
	2000 U.S. Census Estimated Native Population	432

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	13.3%	Total Number Harvested	0.0	1.3
Hunted	0.0%	6.7%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	6.7%	Total Number Taken	0.0	1.3
Received	0.0%	6.7%			
Gave Away	0.0%	6.7%	Number Harvested Per Capita	0.00	0.00

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

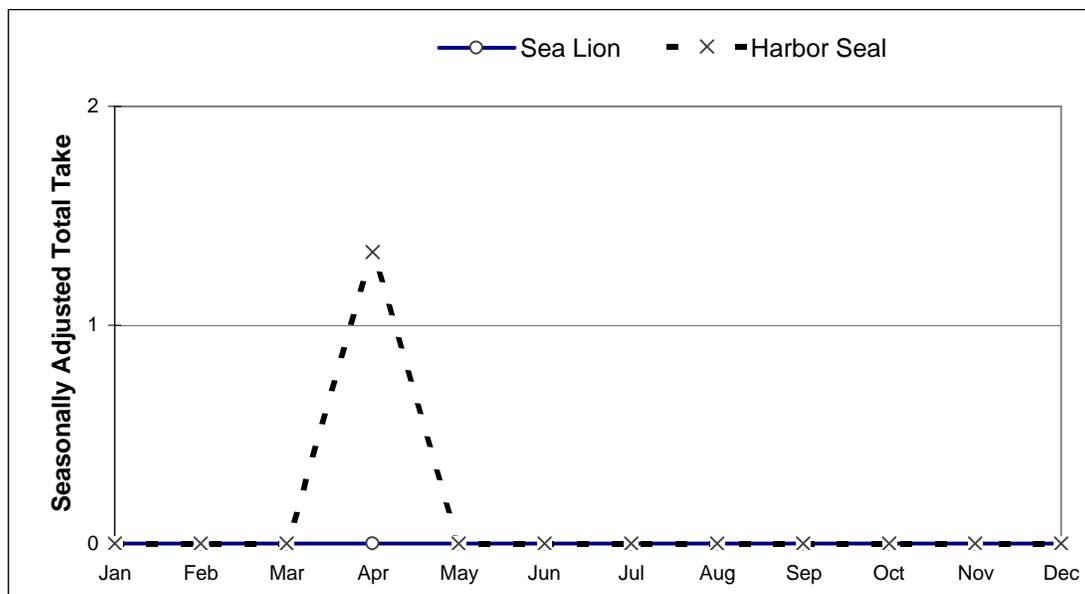
SOURCE: SAIFWC Household Surveys, 2007.

Table 2. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Craig, 2006

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

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	74.2	0.0	74.2
1993	0.0	0.0	0.0	1993	51.1	9.8	60.9
1994	0.0	0.0	0.0	1994	42.7	6.6	49.3
1995	0.0	0.0	0.0	1995	69.4	13.6	83.1
1996	0.0	0.0	0.0	1996	48.2	8.0	56.3
1997	0.0	0.0	0.0	1997	62.0	7.5	69.5
1998	0.0	0.0	0.0	1998	52.7	5.2	57.9
2000	0.0	0.0	0.0	2000	35.0	3.0	38.0
2001	0.0	0.0	0.0	2001	54.0	4.0	58.0
2002	0.0	0.0	0.0	2002	38.9	5.7	44.6
2003	0.0	0.0	0.0	2003	28.0	6.0	34.0
2004	3.3	0.0	3.3	2004	29.7	5.5	35.2
2005	0.0	0.0	0.0	2005	26.0	3.0	29.0
2006	0.0	0.0	0.0	2006	1.3	0.0	1.3

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAIFWC Household Surveys, 2000-2007.

Table 3. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Haines, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	13
	Surveyed Households	11
	Sampling Fraction	84.6%
	Sample Household Members	29
	Estimated Household Members	34.3
	2000 U.S. Census Estimated Native Population	335

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%	18.2%	Total Number Harvested	0.0	4.7
Hunted	0.0%	9.1%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	9.1%	Total Number Taken	0.0	4.7
Received	0.0%	9.1%			
Gave Away	0.0%	9.1%	Number Harvested Per Capita	0.00	0.01

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

HARBOR SEAL HARVEST BY MONTH													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	2	0	0	0	0	0	0	0	0	0	0	0	4
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	2	0	0	0	0	0	0	0	0	0	0	0	4
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
Total Take (%)	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	2.4	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Cum. Take (%)	50.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

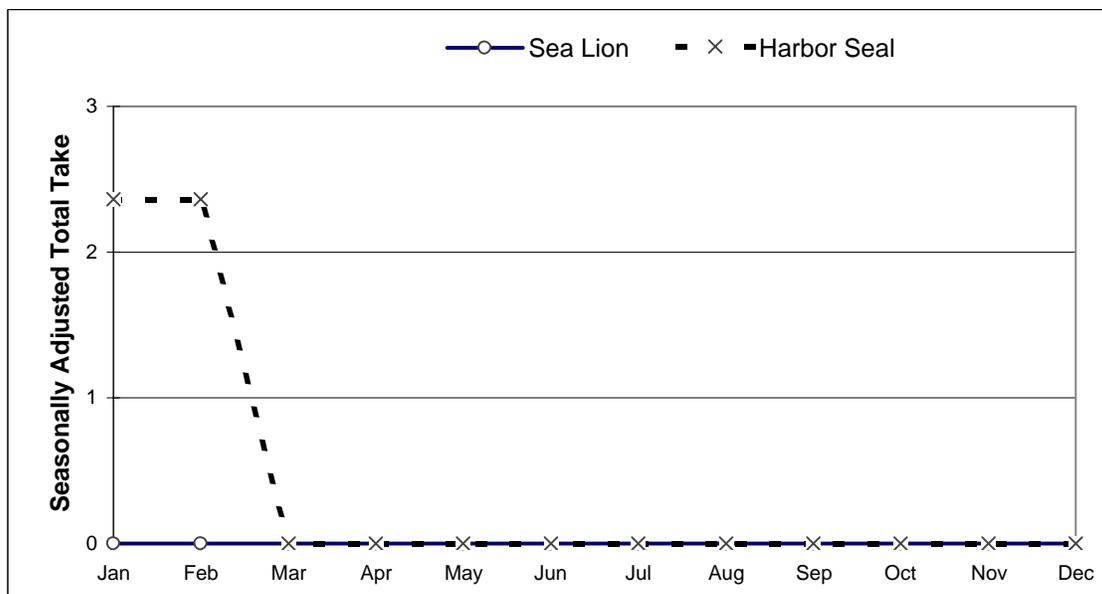
SOURCE: SAIFWC Household Surveys, 2007.

Table 3. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Haines, 2006

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	50.0%	2.4	50.0%
Adult Female	0	---	0.0	---	2	50.0%	2.4	50.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	4	100.0%	4.7	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	30.5	7.9	38.4
1993	0.0	0.0	0.0	1993	23.0	2.3	25.3
1994	0.0	0.0	0.0	1994	39.3	2.2	41.5
1995	0.0	0.0	0.0	1995	24.0	9.0	33.0
1996	0.0	0.0	0.0	1996	41.1	3.4	44.6
1997	0.0	0.0	0.0	1997	36.8	10.5	47.3
1998	0.0	0.0	0.0	1998	30.7	10.6	41.3
2000	0.0	0.0	0.0	2000	17.5	0.0	17.5
2001	0.0	0.0	0.0	2001	19.3	1.1	20.4
2002	0.0	0.0	0.0	2002	19.6	26.2	45.8
2003	0.0	0.0	0.0	2003	12.0	0.0	12.0
2004	0.0	0.0	0.0	2004	7.0	0.0	7.0
2005	0.0	0.0	0.0	2005	2.0	0.0	2.0
2006	0.0	0.0	0.0	2006	4.7	0.0	4.7

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAIFWC Household Surveys, 2000-2007.

Table 4. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Hoonah, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	48
	Surveyed Households	38
	Sampling Fraction	79.2%
	Sample Household Members	113
	Estimated Household Members	142.7
	2000 U.S. Census Estimated Native Population	597

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea <u>Lion</u>	Harbor <u>Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	50.0%	Total Number Harvested	0.0	55.6
Hunted	5.3%	28.9%	Total Number Struck and Lost	10.1	7.6
Harvested	0.0%	26.3%	Total Number Taken	10.1	63.2
Received	0.0%	42.1%			
Gave Away	0.0%	23.7%	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	3	3	0	2	8
Total Take	0	0	0	0	0	0	0	0	0	3	3	0	2	8
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	3.8	3.8	0.0	2.5	10.1
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	0.0	2.5	10.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1	0.0		10.1
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1	0.0		10.1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.1	10.1		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH													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	2	2	3	2	3	4	5	6	10	3	2	0	44
Struck & Lost	0	0	1	1	0	0	1	2	1	0	0	0	0	6
Total Take	2	2	3	4	2	3	5	7	7	10	3	2	0	50
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.5	2.5	2.5	3.8	2.5	3.8	5.1	6.3	7.6	12.6	3.8	2.5	0.0	55.6
Struck & Lost	0.0	0.0	1.3	1.3	0.0	0.0	1.3	2.5	1.3	0.0	0.0	0.0	0.0	7.6
Total Take	2.5	2.5	3.8	5.1	2.5	3.8	6.3	8.8	8.8	12.6	3.8	2.5	0.0	63.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.5	2.5	2.5	3.8	2.5	3.8	5.1	6.3	7.6	12.6	3.8	2.5		55.6
Struck & Lost	0.0	0.0	1.3	1.3	0.0	0.0	1.3	2.5	1.3	0.0	0.0	0.0		7.6
Total Take	2.5	2.5	3.8	5.1	2.5	3.8	6.3	8.8	8.8	12.6	3.8	2.5		63.2
Total Take (%)	4.0%	4.0%	6.0%	8.0%	4.0%	6.0%	10.0%	14.0%	14.0%	20.0%	6.0%	4.0%		100.0%
Cum. Take	2.5	5.1	8.8	13.9	16.4	20.2	26.5	35.4	44.2	56.8	60.6	63.2		
Cum. Take (%)	4.0%	8.0%	14.0%	22.0%	26.0%	32.0%	42.0%	56.0%	70.0%	90.0%	96.0%	100.0%		

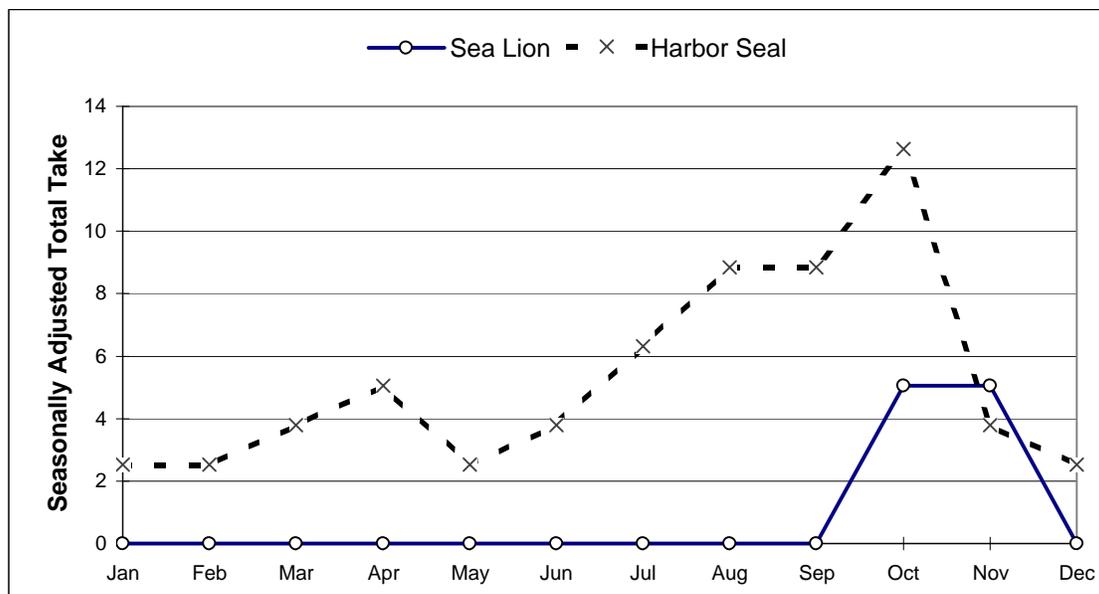
SOURCE: SAIFWC Household Surveys, 2007.

Table 4. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Hoonah, 2006

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	---	24	54.5%	30.3	54.5%
Adult Female	0	---	0.0	---	17	38.6%	21.5	38.6%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	2	4.5%	2.5	4.5%
Juvenile Female	0	---	0.0	---	1	2.3%	1.3	2.3%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	44	100.0%	55.6	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAIFWC Household Surveys, 2000-2007.

Table 5. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Hydaburg, 2006

SAMPLING DESIGN:

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

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	40.0%	Total Number Harvested	0.0	14.4
Hunted	0.0%	40.0%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	40.0%	Total Number Taken	0.0	14.4
Received	0.0%	0.0%			
Gave Away	0.0%	20.0%	Number Harvested Per Capita	0.00	0.04

SEA LION 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	2	2	2	0	0	0	0	0	0	1	1	1	9
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	2	2	2	0	0	0	0	0	0	1	1	1	9
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	14.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	14.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	14.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	14.4
Total Take (%)	0.0%	25.0%	25.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.5%	12.5%	12.5%	100.0%
Cum. Take	0.0	3.6	7.2	10.8	10.8	10.8	10.8	10.8	10.8	10.8	12.6	14.4	14.4	14.4
Cum. Take (%)	0.0%	25.0%	50.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	87.5%	100.0%	100.0%	100.0%

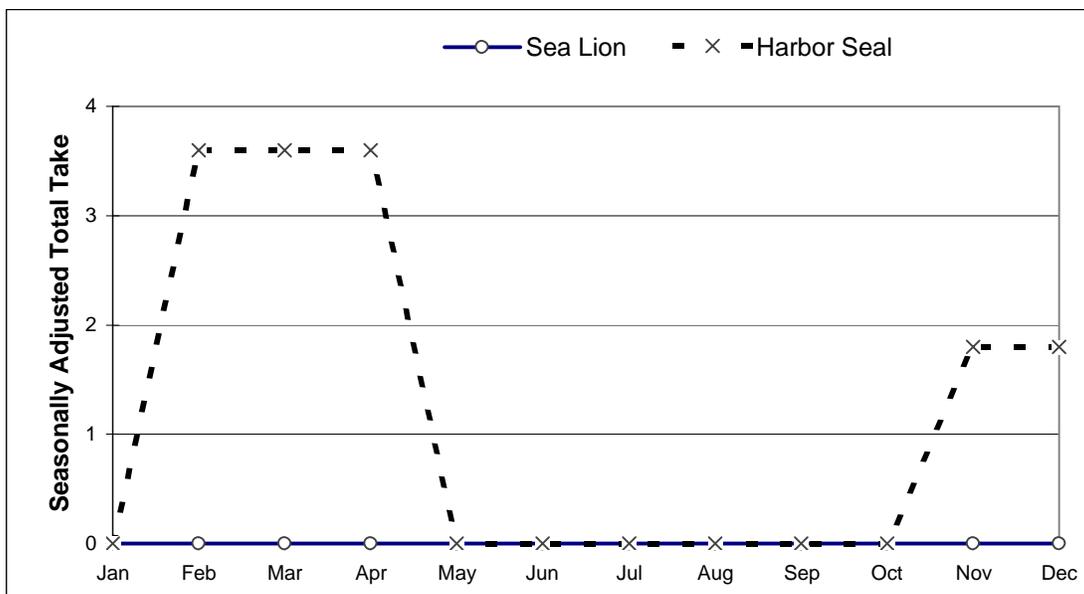
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, (Numbers based on 1998 survey estimates).

Table 5. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Hydaburg, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	4	44.4%	6.4	44.4%
Adult Female	0	---	0.0	---	3	33.3%	4.8	33.3%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	2	22.2%	3.2	22.2%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	9	100.0%	14.4	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

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

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

Table 6. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Juneau, 2006

SAMPLING DESIGN:

CHAIN REFERRAL

Total Referred Households	22
Surveyed Households	16
Sampling Fraction	72.7%
Sample Household Members	65
Estimated Household Members	89.4
2000 U.S. Census Estimated Native Population	5084

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	6.3%	81.3%
Hunted	6.3%	50.0%
Harvested	6.3%	43.8%
Received	0.0%	62.5%
Gave Away	6.3%	62.5%

Estimated Community Harvest and Take (Expanded):

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	1.4	26.1
Total Number Struck and Lost	0.0	23.4
Total Number Taken	1.4	49.5
Number Harvested Per Capita	0.00	0.01

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

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	1	1	0	0	0	2	2	0	5	4	4	0	19
Struck & Lost	0	0	0	0	0	0	1	8	0	1	0	7	0	17
Total Take	0	1	1	0	0	0	3	10	0	6	4	11	0	36
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.4	1.4	0.0	0.0	0.0	2.8	2.8	0.0	6.9	5.5	5.5	0.0	26.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.4	11.0	0.0	1.4	0.0	9.6	0.0	23.4
Total Take	0.0	1.4	1.4	0.0	0.0	0.0	4.1	13.8	0.0	8.3	5.5	15.1	0.0	49.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.4	1.4	0.0	0.0	0.0	2.8	2.8	0.0	6.9	5.5	5.5		26.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.4	11.0	0.0	1.4	0.0	9.6		23.4
Total Take	0.0	1.4	1.4	0.0	0.0	0.0	4.1	13.8	0.0	8.3	5.5	15.1		49.5
Total Take (%)	0.0%	2.8%	2.8%	0.0%	0.0%	0.0%	8.3%	27.8%	0.0%	16.7%	11.1%	30.6%		100.0%
Cum. Take	0.0	1.4	2.8	2.8	2.8	2.8	6.9	20.6	20.6	28.9	34.4	49.5		49.5
Cum. Take (%)	0.0%	2.8%	5.6%	5.6%	5.6%	5.6%	13.9%	41.7%	41.7%	58.3%	69.4%	100.0%		100.0%

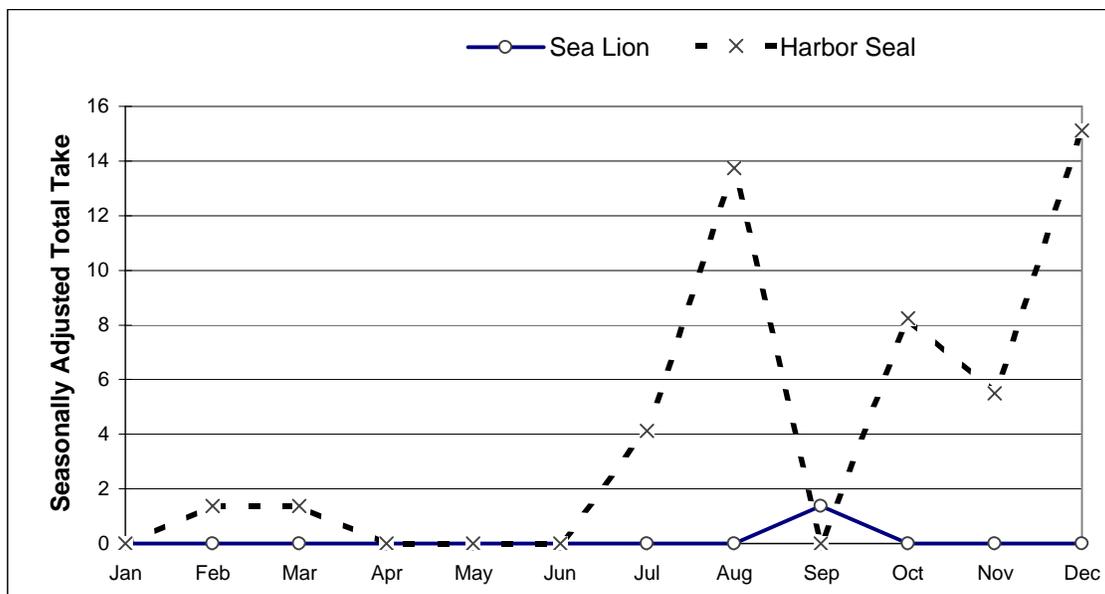
SOURCE: SAIFWC Household Surveys, 2007.

Table 6. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Juneau, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	1	100.0%	1.4	100.0%	9	47.4%	12.4	47.4%
Adult Female	0	0.0%	0.0	0.0%	1	5.3%	1.4	5.3%
Adult Unknown Sex	0	0.0%	0.0	0.0%	2	10.5%	2.8	10.5%
Juvenile Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	7	36.8%	9.6	36.8%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	1	100.0%	1.4	100.0%	19	100.0%	26.1	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAIFWC Household Surveys, 2007.

Table 7. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kake, 2006

**SAMPLING DESIGN:
CHAIN REFERRAL**

Total Referred Households	35
Surveyed Households	32
Sampling Fraction	91.4%
Sample Household Members	93
Estimated Household Members	101.7
2000 U.S. Census Estimated Native Population	530

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	100.0%
Hunted	0.0%	50.0%
Harvested	0.0%	46.9%
Received	0.0%	59.4%
Gave Away	0.0%	40.6%

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

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	40.5
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	40.5
Number Harvested Per Capita	0.00	0.08

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	3	1	4	0	0	4	2	11	7	3	0	2	0	37
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	3	1	4	0	0	4	2	11	7	3	0	2	0	37
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.3	1.1	4.4	0.0	0.0	4.4	2.2	12.0	7.7	3.3	0.0	2.2	0.0	40.5
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	3.3	1.1	4.4	0.0	0.0	4.4	2.2	12.0	7.7	3.3	0.0	2.2	0.0	40.5
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.3	1.1	4.4	0.0	0.0	4.4	2.2	12.0	7.7	3.3	0.0	2.2	0.0	40.5
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	3.3	1.1	4.4	0.0	0.0	4.4	2.2	12.0	7.7	3.3	0.0	2.2	0.0	40.5
Total Take (%)	8.1%	2.7%	10.8%	0.0%	0.0%	10.8%	5.4%	29.7%	18.9%	8.1%	0.0%	5.4%	0.0%	100.0%
Cum. Take	3.3	4.4	8.8	8.8	8.8	13.1	15.3	27.3	35.0	38.3	38.3	40.5	40.5	40.5
Cum. Take (%)	8.1%	10.8%	21.6%	21.6%	21.6%	32.4%	37.8%	67.6%	86.5%	94.6%	94.6%	100.0%	100.0%	100.0%

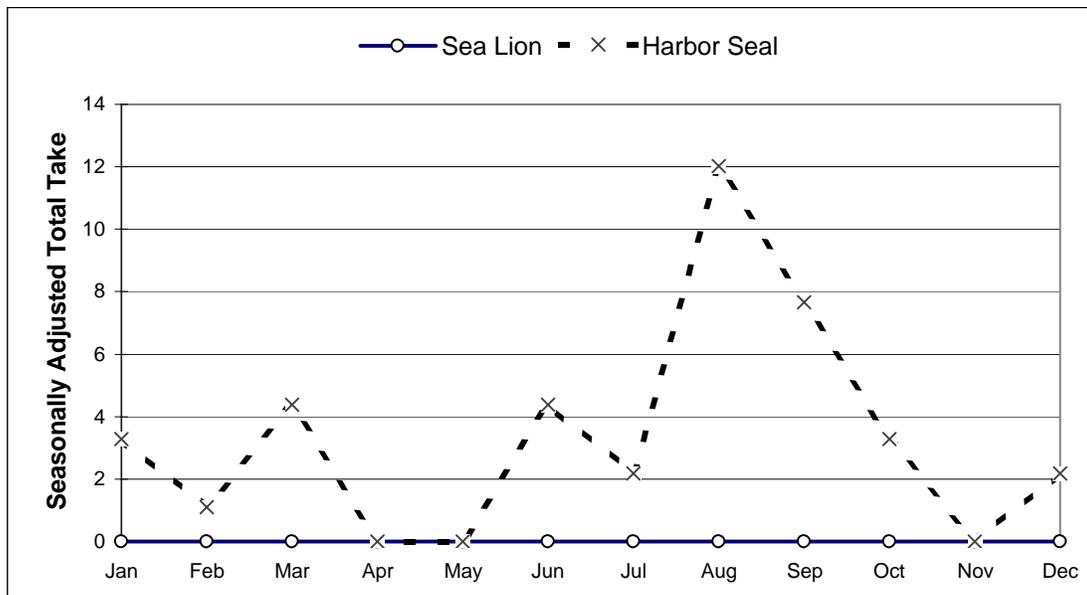
SOURCE: SAIFWC Household Surveys, 2007.

Table 7. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kake, 2006

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	---	37	100.0%	40.5	100.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	37	100.0%	40.5	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	173.9	12.3	186.2
1993	0.0	0.0	0.0	1993	100.8	15.2	115.9
1994	1.2	0.0	1.2	1994	99.3	7.4	106.6
1995	0.0	0.0	0.0	1995	72.0	1.5	73.5
1996	0.0	0.0	0.0	1996	86.4	0.0	86.4
1997	0.0	0.0	0.0	1997	68.4	7.6	76.0
1998	0.0	0.0	0.0	1998	123.0	6.1	129.1
2000	0.0	0.0	0.0	2000	101.7	3.6	105.3
2001	0.0	0.0	0.0	2001	85.6	10.7	96.4
2002	0.0	0.0	0.0	2002	98.2	10.6	108.7
2003	0.0	0.0	0.0	2003	52.1	0.0	52.1
2004	0.0	0.0	0.0	2004	96.2	0.0	96.2
2005	0.0	0.0	0.0	2005	47.6	4.6	52.3
2006	0.0	0.0	0.0	2006	40.5	0.0	40.5

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAIFWC Household Surveys, 2000-2007.

Table 8. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ketchikan, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	13
	Surveyed Households	9
	Sampling Fraction	69.2%
	Sample Household Members	24
	Estimated Household Members	34.7
	2000 U.S. Census Estimated Native Population	1802

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	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	37.6
Hunted	0.0%	44.4%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	33.3%	Total Number Taken	0.0	37.6
Received	0.0%	66.7%			
Gave Away	0.0%	11.1%	Number Harvested Per Capita	0.00	0.02

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

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	11	12	3	0	26
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	11	12	3	0	26
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	15.9	17.3	4.3	0.0	37.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	17.3	4.3	0.0	37.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	17.3	4.3	0.0	37.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	17.3	4.3	0.0	37.6
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	42.3%	46.2%	11.5%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	33.2	37.6	0.0	37.6
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	42.3%	88.5%	100.0%	0.0%	100.0%

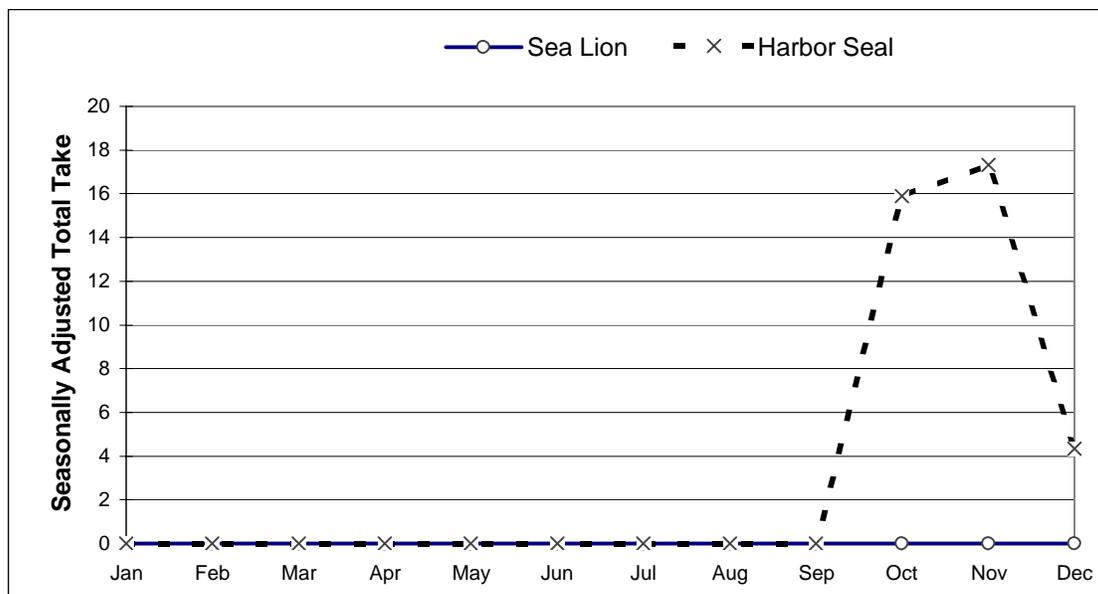
SOURCE: SAIFWC Household Surveys, 2007.

Table 8. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ketchikan, 2006

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	50.0%	18.8	50.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	3	11.5%	4.3	11.5%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	1	3.8%	1.4	3.8%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	9	34.6%	13.0	34.6%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	26	100.0%	37.6	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	90.2	6.5	96.8
1993	0.0	0.0	0.0	1993	42.4	2.9	45.3
1994	0.0	0.0	0.0	1994	31.4	0.0	31.4
1995	0.0	0.0	0.0	1995	46.4	0.0	46.4
1996	0.0	0.0	0.0	1996	25.0	0.0	25.0
1997	0.0	0.0	0.0	1997	27.4	4.3	31.8
1998	0.0	0.0	0.0	1998	26.7	0.0	26.7
2000	0.0	0.0	0.0	2000	111.7	0.0	111.7
2001	0.0	0.0	0.0	2001	12.7	0.0	12.7
2002	0.0	0.0	0.0	2002	123.5	1.2	124.6
2003	0.0	0.0	0.0	2003	78.0	0.0	78.0
2004	0.0	0.0	0.0	2004	60.0	5.0	65.0
2005	0.0	0.0	0.0	2005	73.1	0.0	73.1
2006	0.0	0.0	0.0	2006	37.6	0.0	37.6

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAIFWC Household Surveys, 2000-2007.

Table 9. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Klawock, 2006

SAMPLING DESIGN:

CHAIN REFERRAL

Total Referred Households	29
Surveyed Households	25
Sampling Fraction	86.2%
Sample Household Members	72
Estimated Household Members	83.5
2000 U.S. Census Estimated Native Population	496

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	4.0%	36.0%
Hunted	4.0%	28.0%
Harvested	4.0%	28.0%
Received	0.0%	8.0%
Gave Away	4.0%	20.0%

Estimated Community Harvest and Take (Expanded):

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	1.2	16.2
Total Number Struck and Lost	0.0	3.5
Total Number Taken	1.2	19.7
Number Harvested Per Capita	0.00	0.03

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	1	5	1	1	1	0	0	0	1	2	0	0	14
Struck & Lost	0	0	2	0	0	0	0	0	0	0	1	0	0	3
Total Take	2	1	7	1	1	1	0	0	0	1	3	0	0	17
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.3	1.2	5.8	1.2	1.2	1.2	0.0	0.0	0.0	1.2	2.3	0.0	0.0	16.2
Struck & Lost	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	3.5
Total Take	2.3	1.2	8.1	1.2	1.2	1.2	0.0	0.0	0.0	1.2	3.5	0.0	0.0	19.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.3	1.2	5.8	1.2	1.2	1.2	0.0	0.0	0.0	1.2	2.3	0.0	0.0	16.2
Struck & Lost	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	3.5
Total Take	2.3	1.2	8.1	1.2	1.2	1.2	0.0	0.0	0.0	1.2	3.5	0.0	0.0	19.7
Total Take (%)	11.8%	5.9%	41.2%	5.9%	5.9%	5.9%	0.0%	0.0%	0.0%	5.9%	17.6%	0.0%	0.0%	100.0%
Cum. Take	2.3	3.5	11.6	12.8	13.9	15.1	15.1	15.1	15.1	16.2	19.7	19.7	19.7	19.7
Cum. Take (%)	11.8%	17.6%	58.8%	64.7%	70.6%	76.5%	76.5%	76.5%	76.5%	82.4%	100.0%	100.0%	100.0%	100.0%

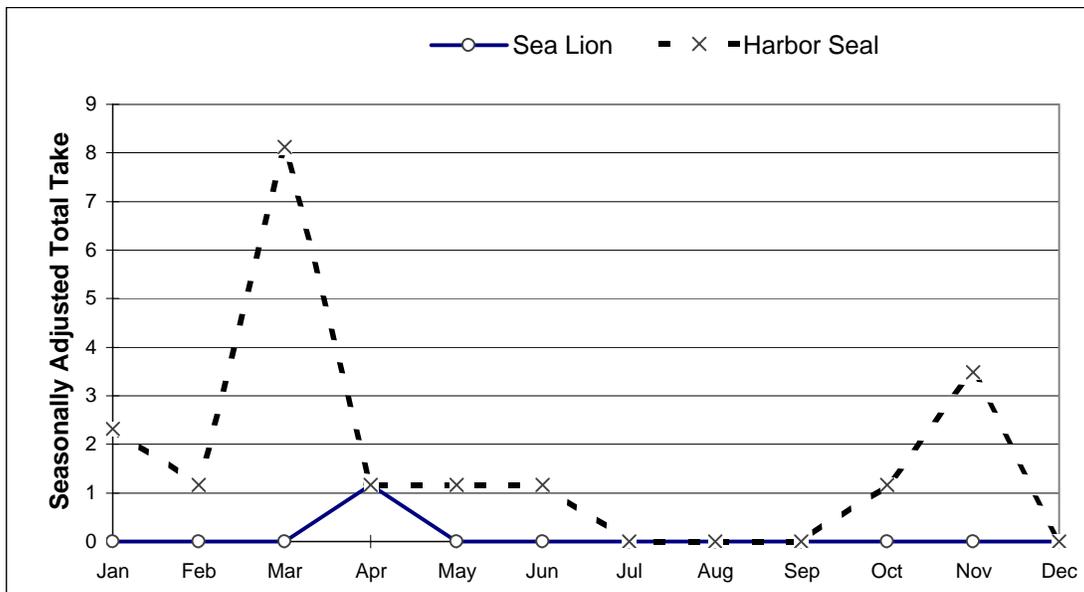
SOURCE: SAIFWC Household Surveys, 2007.

Table 9. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Klawock, 2006

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%	8	57.1%	9.3	57.1%
Adult Female	0	0.0%	0.0	0.0%	1	7.1%	1.2	7.1%
Adult Unknown Sex	0	0.0%	0.0	0.0%	2	14.3%	2.3	14.3%
Juvenile Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	3	21.4%	3.5	21.4%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	1	100.0%	1.2	100.0%	0	0.0%	0.0	0.0%
Total	1	100.0%	1.2	100.0%	14	100.0%	16.2	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAI FWC Household Surveys, 2000-2007.

Table 10. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Klukwan, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	8
	Surveyed Households	3
	Sampling Fraction	37.5%
	Sample Household Members	9
	Estimated Household Members	24.0
	2000 U.S. Census Estimated Native Population	123

HARVEST AND USE INFORMATION

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

SEA LION 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	0	0	0	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 (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

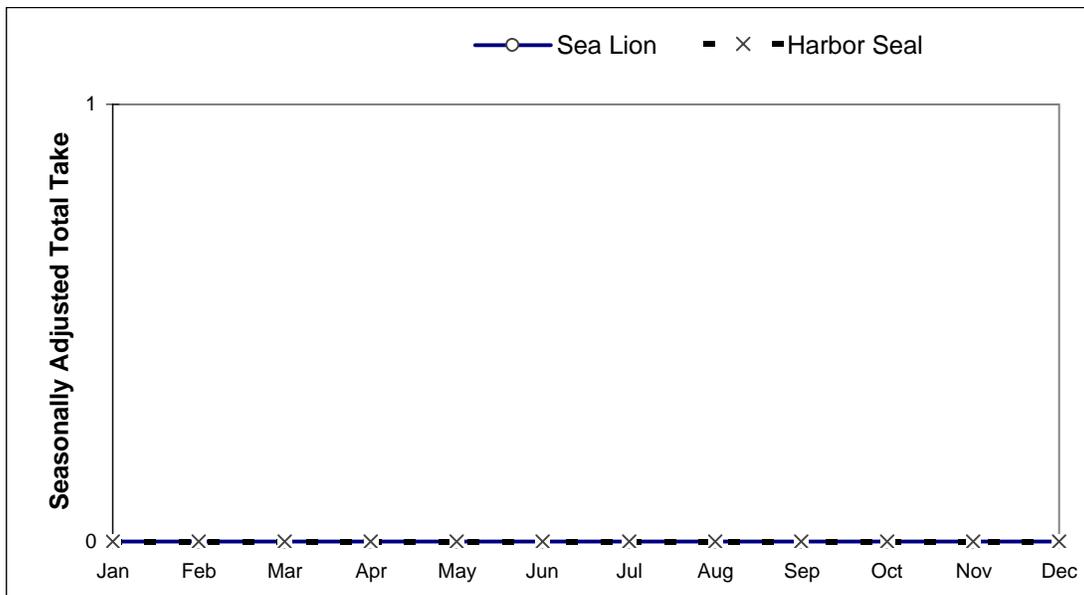
SOURCE: SAIFWC Household Surveys. (Numbers based on 2000 survey estimates).

Table 10. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Klukwan, 2006

HARVEST BY AGE AND SEX

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

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	8.0	2.0	10.0
1993	0.0	0.0	0.0	1993	1.2	0.0	1.2
1994	0.0	0.0	0.0	1994	3.8	1.3	5.0
1995	0.0	0.0	0.0	1995	35.2	6.4	41.6
1996	0.0	0.0	0.0	1996	6.3	0.0	6.3
1997	0.0	0.0	0.0	1997	1.1	0.0	1.1
1998	0.0	0.0	0.0	1998	10.5	0.0	10.5
2000	0.0	0.0	0.0	2000	18.0	0.0	18.0
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0
2002	0.0	0.0	0.0	2002	0.0	0.0	0.0
2003	0.0	0.0	0.0	2003	0.0	0.0	0.0
2004	0.0	0.0	0.0	2004	0.0	0.0	0.0
2005	0.0	0.0	0.0	2005	0.0	0.0	0.0
2006	0.0	0.0	0.0	2006	0.0	0.0	0.0

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

Table 11. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Pelican, 2006

**SAMPLING DESIGN:
TWO-STRATA**

Total Referred Households	6
Surveyed Households	5
Sampling Fraction	83.3%
Sample Household Members	10
Estimated Household Members	12.0
2000 U.S. Census Estimated Native Population	42

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	80.0%	Total Number Harvested	0.0	8.4
Hunted	0.0%	60.0%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	60.0%	Total Number Taken	0.0	8.4
Received	0.0%	20.0%			
Gave Away	0.0%	40.0%	Number Harvested Per Capita	0.00	0.20

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	3	0	0	0	0	0	2	0	0	0	0	0	7
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	3	0	0	0	0	0	2	0	0	0	0	0	7
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.4	3.6	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	8.4
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	2.4	3.6	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	8.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.4	3.6	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	8.4
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	2.4	3.6	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	8.4
Total Take (%)	28.6%	42.9%	0.0%	0.0%	0.0%	0.0%	0.0%	28.6%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	2.4	6.0	6.0	6.0	6.0	6.0	6.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4
Cum. Take (%)	28.6%	71.4%	71.4%	71.4%	71.4%	71.4%	71.4%	71.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

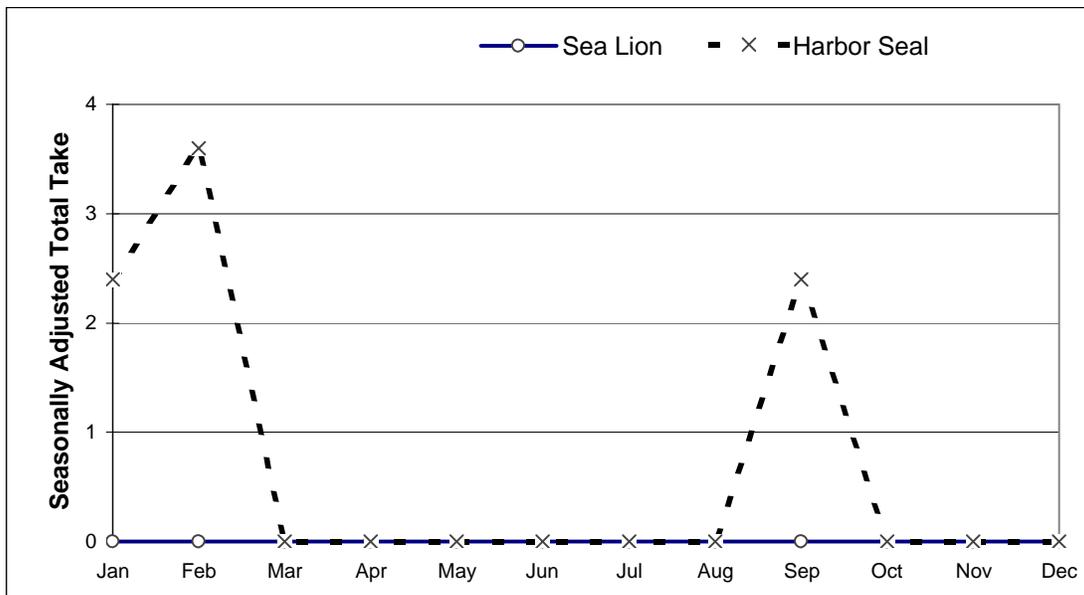
SOURCE: SAIFWC Household Surveys, 2007.

Table 11. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Pelican, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	3	42.9%	3.6	42.9%
Adult Female	0	---	0.0	---	2	28.6%	2.4	28.6%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	2	28.6%	2.4	28.6%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	7	100.0%	8.4	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	8.3	1.4	9.7
1993	0.0	0.0	0.0	1993	5.3	1.1	6.4
1994	0.0	0.0	0.0	1994	4.4	1.1	5.6
1995	0.0	0.0	0.0	1995	13.5	0.0	13.5
1996	0.0	0.0	0.0	1996	15.4	0.0	15.4
1997	0.0	0.0	0.0	1997	14.5	0.0	14.5
1998	0.0	0.0	0.0	1998	15.8	2.4	18.2
2000	0.0	0.0	0.0	2000	7.5	0.0	7.5
2001	0.0	0.0	0.0	2001	9.0	0.0	9.0
2002	0.0	0.0	0.0	2002	1.8	0.0	1.8
2003	0.0	0.0	0.0	2003	1.8	0.0	1.8
2004	0.0	0.0	0.0	2004	1.8	0.0	1.8
2005	0.0	0.0	0.0	2005	10.5	0.0	10.5
2006	0.0	0.0	0.0	2006	8.4	0.0	8.4

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAI FWC Household Surveys, 2000-2007.

Table 12. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Petersburg, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	30
	Surveyed Households	30
	Sampling Fraction	100.0%
	Sample Household Members	96
	Estimated Household Members	96.0
	2000 U.S. Census Estimated Native Population	388

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	100.0%	Total Number Harvested	0.0	10.0
Hunted	0.0%	40.0%	Total Number Struck and Lost	0.0	11.0
Harvested	0.0%	20.0%	Total Number Taken	0.0	21.0
Received	0.0%	83.3%			
Gave Away	0.0%	66.7%	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	0	0	0	0	0	0	0	1	5	3	1	0	10	
Struck & Lost	0	0	0	0	1	0	0	1	1	2	3	3	11	
Total Take	0	0	0	0	1	0	0	1	2	7	6	4	21	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.0	3.0	1.0	0.0	10.0	
Struck & Lost	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	1.0	2.0	3.0	3.0	11.0	
Total Take	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	2.0	7.0	6.0	4.0	21.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.0	3.0	1.0	0.0	10.0	
Struck & Lost	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	1.0	2.0	3.0	3.0	11.0	
Total Take	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	2.0	7.0	6.0	4.0	21.0	
Total Take (%)	0.0%	0.0%	0.0%	0.0%	4.8%	0.0%	0.0%	4.8%	9.5%	33.3%	28.6%	19.0%	100.0%	
Cum. Take	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.0	4.0	11.0	17.0	21.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	4.8%	4.8%	4.8%	9.5%	19.0%	52.4%	81.0%	100.0%		

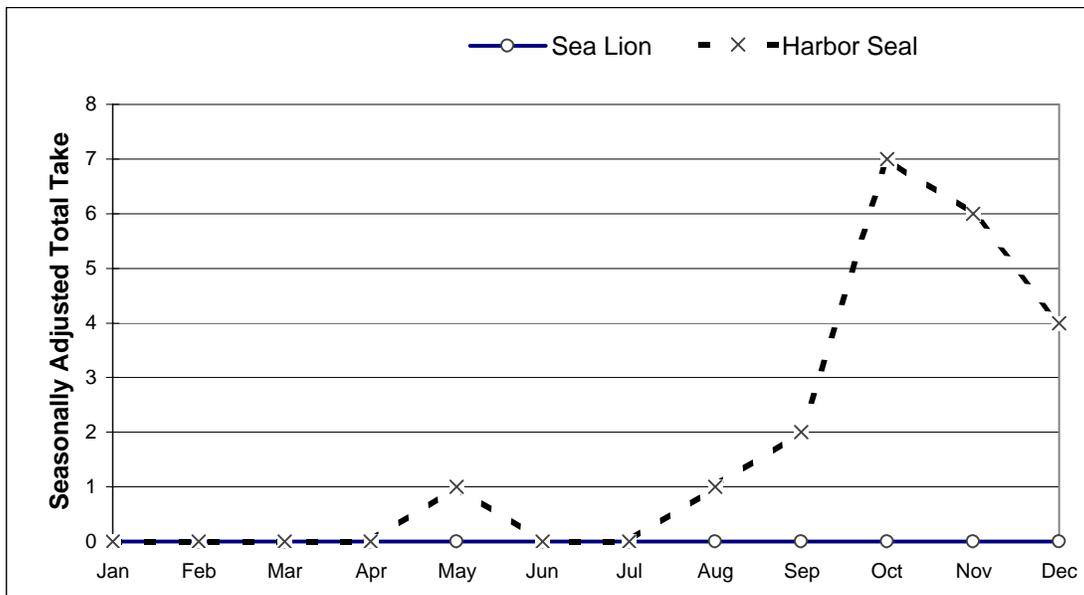
SOURCE: SAIFWC Household Surveys, 2007.

Table 12. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Petersburg, 2006

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	50.0%	5.0	50.0%
Adult Female	0	---	0.0	---	2	20.0%	2.0	20.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	2	20.0%	2.0	20.0%
Juvenile Female	0	---	0.0	---	1	10.0%	1.0	10.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	10	100.0%	10.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAI FWC Household Surveys, 2000-2007.

Table 13. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Saxman, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	14
	Surveyed Households	10
	Sampling Fraction	71.4%
	Sample Household Members	37
	Estimated Household Members	51.8
	2000 U.S. Census Estimated Native Population	302

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	90.0%	Total Number Harvested	0.0	20.2
Hunted	0.0%	60.0%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	50.0%	Total Number Taken	0.0	20.2
Received	0.0%	40.0%			
Gave Away	0.0%	50.0%	Number Harvested Per Capita	0.00	0.07

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	0	0	0	0	1	5	5	1	2	14	
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Take	0	0	0	0	0	0	0	1	5	5	1	2	14	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	7.0	7.0	1.4	3.4	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	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	7.0	7.0	1.4	3.4	20.2	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	8.4	8.4	1.7		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	
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	8.4	8.4	1.7		20.2	
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.3%	41.7%	41.7%	8.3%		100.0%	
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	10.1	18.5	20.2			
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.3%	50.0%	91.7%	100.0%			

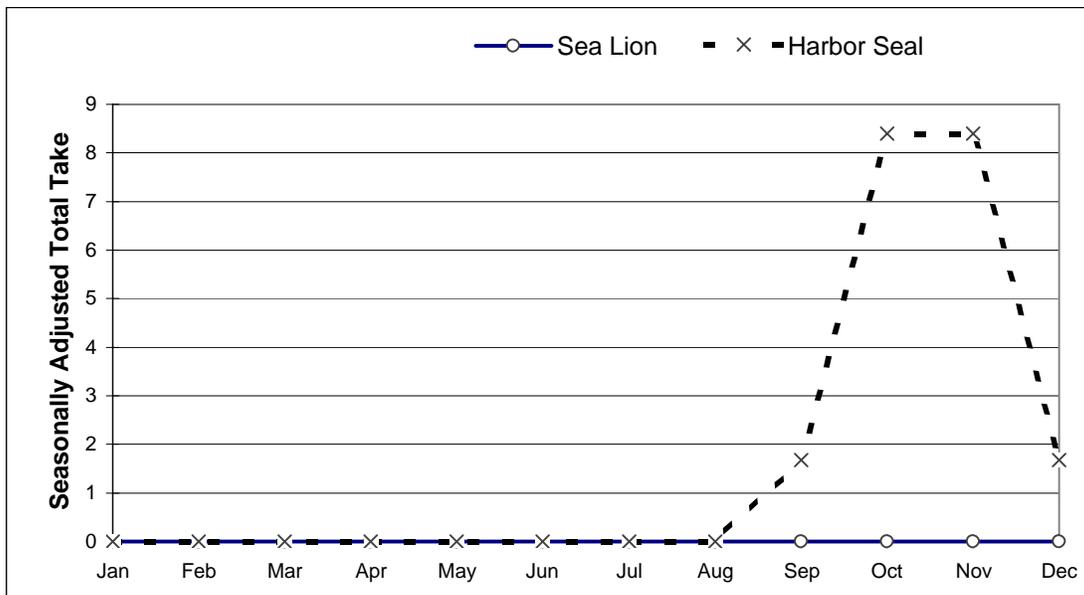
SOURCE: SAIFWC Household Surveys, 2007.

Table 13. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Saxman, 2006

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	41.7%	8.4	41.7%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	5	34.7%	7.0	34.7%
Juvenile Male	0	---	0.0	---	1	6.9%	1.4	6.9%
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	---	2	16.7%	3.4	16.7%
Total	0	---	0.0	---	14	100.0%	20.2	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAI FWC Household Surveys, 2000-2007.

Table 14. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Sitka, 2006

SAMPLING DESIGN:

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

HARVEST AND USE INFORMATION

Percentage of Sample Households:

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

Estimated Community Harvest and Take (Expanded):

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

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

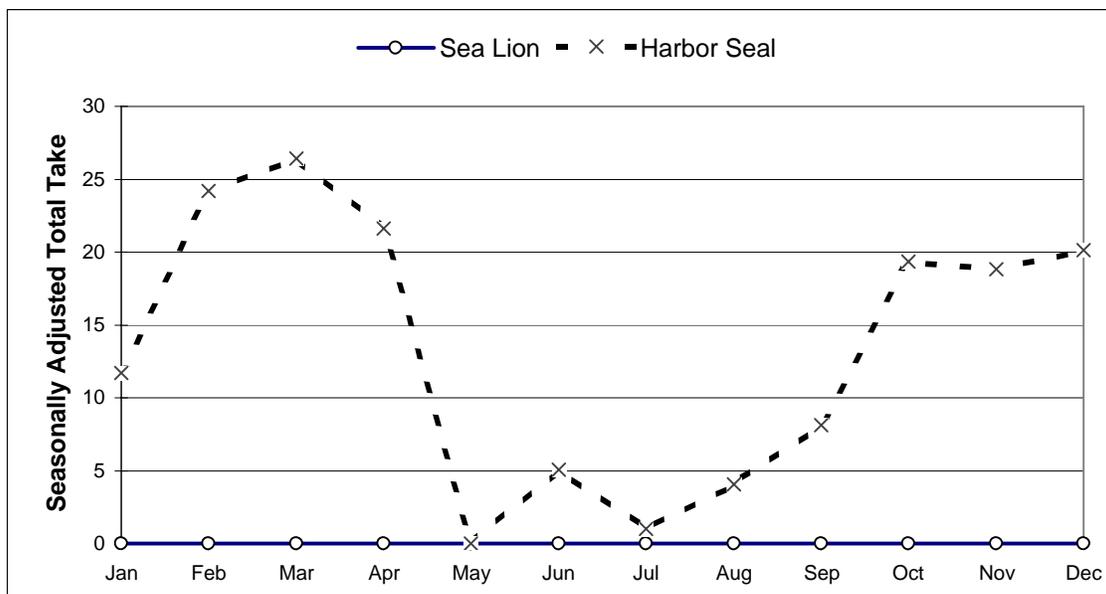
SOURCE: SAIFWC Household Surveys, (Numbers based on 2005 survey estimates).

Table 14. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Sitka, 2006

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	---	67	48.2%	68.0	48.2%
Adult Female	0	---	0.0	---	34	24.5%	34.5	24.5%
Adult Unknown Sex	0	---	0.0	---	6	4.3%	6.1	4.3%
Juvenile Male	0	---	0.0	---	16	11.5%	16.3	11.5%
Juvenile Female	0	---	0.0	---	8	5.8%	8.1	5.8%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	1	0.7%	1.0	0.7%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	7	5.0%	7.1	5.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	139	100.0%	141.2	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	3.8	1.3	5.0	1992	124.7	21.4	146.1
1993	0.0	1.1	1.1	1993	109.3	20.6	129.9
1994	1.1	1.1	2.2	1994	110.5	20.1	130.6
1995	0.0	0.0	0.0	1995	93.8	6.3	100.0
1996	0.0	0.0	0.0	1996	126.8	4.1	130.9
1997	0.0	0.0	0.0	1997	150.6	3.7	154.3
1998	3.3	4.4	7.6	1998	237.6	29.4	267.0
2000	0.0	0.0	0.0	2000	276.8	41.1	317.8
2001	0.0	0.0	0.0	2001	241.3	32.8	274.1
2002	6.0	0.0	6.0	2002	169.7	19.3	189.0
2003	0.0	0.0	0.0	2003	220.4	5.2	225.6
2004	0.0	0.0	0.0	2004	141.2	19.3	160.5
2005	0.0	0.0	0.0	2005	23.0	1.0	24.0
2006	0.0	0.0	0.0	2006	141.2	19.3	160.5

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAIFWC Household Surveys, 2000-2006 (Numbers based on 2005 survey estimates).

Table 15. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Wrangell, 2006

SAMPLING DESIGN:

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

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	33.3%	Total Number Harvested	0.0	33.3
Hunted	0.0%	33.3%	Total Number Struck and Lost	0.0	8.3
Harvested	0.0%	33.3%	Total Number Taken	0.0	41.7
Received	0.0%	0.0%			
Gave Away	0.0%	16.7%	Number Harvested Per Capita	0.00	0.06

SEA LION HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	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	8	3	0	0	0	0	0	1	5	3	0	20
Struck & Lost	0	0	5	0	0	0	0	0	0	0	0	0	0	5
Total Take	0	0	13	3	0	0	0	0	0	1	5	3	0	25
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	13.3	5.0	0.0	0.0	0.0	0.0	0.0	1.7	8.3	5.0	0.0	33.3
Struck & Lost	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
Total Take	0.0	0.0	21.7	5.0	0.0	0.0	0.0	0.0	0.0	1.7	8.3	5.0	0.0	41.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	13.3	5.0	0.0	0.0	0.0	0.0	0.0	1.7	8.3	5.0	0.0	33.3
Struck & Lost	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
Total Take	0.0	0.0	21.7	5.0	0.0	0.0	0.0	0.0	0.0	1.7	8.3	5.0	0.0	41.7
Total Take (%)	0.0%	0.0%	52.0%	12.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%	20.0%	12.0%	0.0%	100.0%
Cum. Take	0.0	0.0	21.7	26.7	26.7	26.7	26.7	26.7	26.7	28.3	36.7	41.7	41.7	41.7
Cum. Take (%)	0.0%	0.0%	52.0%	64.0%	64.0%	64.0%	64.0%	64.0%	64.0%	68.0%	88.0%	100.0%	100.0%	100.0%

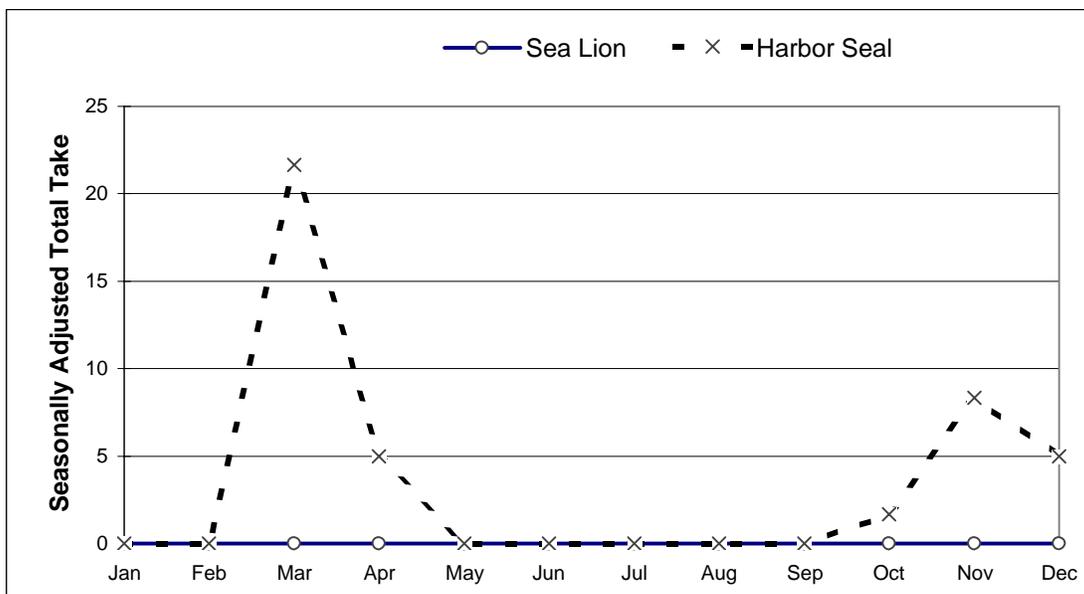
SOURCE: SAIFWC Household Surveys, (numbers based on 2004 estimates).

Table 15. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Wrangell, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	2	10.0%	3.3	10.0%
Adult Female	0	---	0.0	---	1	5.0%	1.7	5.0%
Adult Unknown Sex	0	---	0.0	---	1	5.0%	1.7	5.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	16	80.0%	26.7	80.0%
Total	0	---	0.0	---	20	100.0%	33.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	6.0	8.0	14.0
1993	0.0	0.0	0.0	1993	19.5	9.0	28.5
1994	0.0	0.0	0.0	1994	101.0	27.0	128.0
1995	0.0	0.0	0.0	1995	89.3	22.8	112.0
1996	0.0	0.0	0.0	1996	79.3	22.2	101.5
1997	0.0	0.0	0.0	1997	68.8	29.2	98.0
1998	0.0	0.0	0.0	1998	174.0	30.0	204.0
2000	0.0	0.0	0.0	2000	28.5	12.0	40.5
2001	0.0	0.0	0.0	2001	16.0	29.0	45.0
2002	0.0	0.0	0.0	2002	20.0	9.0	29.0
2003	0.0	0.0	0.0	2003	68.0	18.7	86.7
2004	0.0	0.0	0.0	2004	33.3	8.3	41.7
2005	0.0	0.0	0.0	2005	33.3	8.3	41.7
2006	0.0	0.0	0.0	2006	33.3	8.3	41.7

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAIFWC Household Surveys, 2000-2005 (Numbers based on 2004 estimates).

Table 16. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Yakutat, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	45
	Surveyed Households	40
	Sampling Fraction	88.9%
	Sample Household Members	109
	Estimated Household Members	122.6
	2000 U.S. Census Estimated Native Population	375

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	97.5%	Total Number Harvested	0.0	137.3
Hunted	0.0%	60.0%	Total Number Struck and Lost	0.0	33.8
Harvested	0.0%	57.5%	Total Number Taken	0.0	171.0
Received	0.0%	75.0%			
Gave Away	0.0%	62.5%	Number Harvested Per Capita	0.00	0.37

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	1	6	21	10	13	17	4	12	10	17	11	0	122
Struck & Lost	0	0	4	4	2	7	5	0	2	1	4	1	0	30
Total Take	0	1	10	25	12	20	22	4	14	11	21	12	0	152
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.1	6.8	23.6	11.3	14.6	19.1	4.5	13.5	11.3	19.1	12.4	0.0	137.3
Struck & Lost	0.0	0.0	4.5	4.5	2.3	7.9	5.6	0.0	2.3	1.1	4.5	1.1	0.0	33.8
Total Take	0.0	1.1	11.3	28.1	13.5	22.5	24.8	4.5	15.8	12.4	23.6	13.5	0.0	171.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.1	6.8	23.6	11.3	14.6	19.1	4.5	13.5	11.3	19.1	12.4	0.0	137.3
Struck & Lost	0.0	0.0	4.5	4.5	2.3	7.9	5.6	0.0	2.3	1.1	4.5	1.1	0.0	33.8
Total Take	0.0	1.1	11.3	28.1	13.5	22.5	24.8	4.5	15.8	12.4	23.6	13.5	0.0	171.0
Total Take (%)	0.0%	0.7%	6.6%	16.4%	7.9%	13.2%	14.5%	2.6%	9.2%	7.2%	13.8%	7.9%	0.0%	100.0%
Cum. Take	0.0	1.1	12.4	40.5	54.0	76.5	101.3	105.8	121.5	133.9	157.5	171.0	0.0	171.0
Cum. Take (%)	0.0%	0.7%	7.2%	23.7%	31.6%	44.7%	59.2%	61.8%	71.1%	78.3%	92.1%	100.0%	0.0%	100.0%

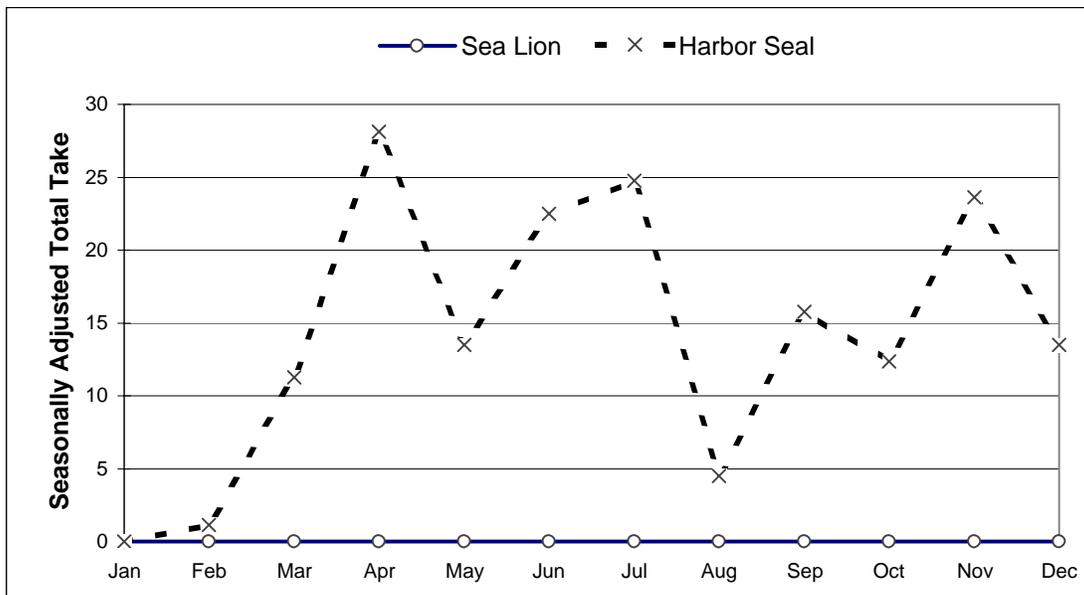
SOURCE: SAIFWC Household Surveys, 2007.

Table 16. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Yakutat, 2006

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	---	64	52.5%	72.0	52.5%
Adult Female	0	---	0.0	---	15	12.3%	16.9	12.3%
Adult Unknown Sex	0	---	0.0	---	1	0.8%	1.1	0.8%
Juvenile Male	0	---	0.0	---	28	23.0%	31.5	23.0%
Juvenile Female	0	---	0.0	---	14	11.5%	15.8	11.5%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	122	100.0%	137.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	248.0	61.3	309.3
1993	0.0	0.0	0.0	1993	568.4	57.4	625.8
1994	0.0	0.0	0.0	1994	417.1	35.0	452.1
1995	0.0	0.0	0.0	1995	615.5	79.6	695.1
1996	0.0	0.0	0.0	1996	640.3	124.1	764.5
1997	0.0	0.0	0.0	1997	491.5	139.9	631.5
1998	0.0	0.0	0.0	1998	289.0	72.3	361.3
2000	0.0	0.0	0.0	2000	193.3	56.8	250.1
2001	0.0	0.0	0.0	2001	208.8	36.2	245.0
2002	0.0	0.0	0.0	2002	110.3	27.2	137.5
2003	0.0	0.0	0.0	2003	251.7	51.5	303.2
2004	0.0	0.0	0.0	2004	147.7	27.1	174.8
2005	0.0	0.0	0.0	2005	140.2	24.1	164.3
2006	0.0	0.0	0.0	2006	137.3	33.8	171.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; SAI FWC Household Surveys, 2000-2007.

Table 17. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Chenega Bay, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	18
Surveyed Households	11
Sampling Fraction	61.1%
Sample Household Members	25
Estimated Household Members	40.9
2000 U.S. Census Estimated Native Population	67

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	90.9%
Hunted	0.0%	36.4%
Harvested	0.0%	18.2%
Received	0.0%	81.8%
Gave Away	0.0%	18.2%

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

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	21.3
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	21.3
Number Harvested Per Capita	0.00	0.32

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

HARBOR SEAL HARVEST BY MONTH														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	2	0	6	5	0	0	0	0	0	0	13
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	2	0	6	5	0	0	0	0	0	0	13
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	3.3	0.0	9.8	8.2	0.0	0.0	0.0	0.0	0.0	0.0	21.3
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	3.3	0.0	9.8	8.2	0.0	0.0	0.0	0.0	0.0	0.0	21.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	3.3	0.0	9.8	8.2	0.0	0.0	0.0	0.0	0.0	0.0	21.3
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	3.3	0.0	9.8	8.2	0.0	0.0	0.0	0.0	0.0	0.0	21.3
Total Take (%)	0.0%	0.0%	0.0%	15.4%	0.0%	46.2%	38.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	3.3	3.3	13.1	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
Cum. Take (%)	0.0%	0.0%	0.0%	15.4%	15.4%	61.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

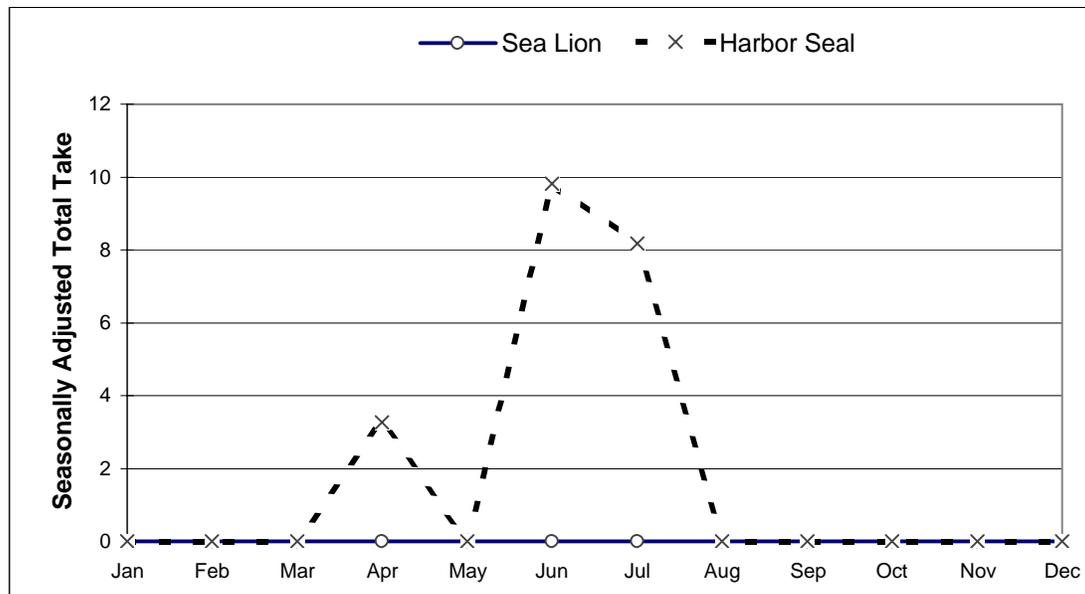
SOURCE: ANHSC Household Surveys, 2007.

Table 17. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chenega Bay, 2006

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	7.7%	1.6	7.7%
Adult Female	0	---	0.0	---	1	7.7%	1.6	7.7%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	2	15.4%	3.3	15.4%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	9	69.2%	14.7	69.2%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	13	100.0%	21.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	6.9	1.2	8.1	1992	42.6	2.3	44.9
1993	11.1	6.6	17.7	1993	60.8	2.2	63.0
1994	6.6	0.0	6.6	1994	42.0	3.9	45.9
1995	6.6	0.0	6.6	1995	44.4	1.6	46.0
1996	2.0	0.0	2.0	1996	16.0	3.0	19.0
1997	0.0	0.0	0.0	1997	25.7	0.0	25.7
1998	0.0	0.0	0.0	1998	15.6	0.0	15.6
2000	0.0	0.0	0.0	2000	15.0	0.0	15.0
2001	1.2	0.0	1.2	2001	13.0	0.0	13.0
2002	0.0	0.0	0.0	2002	9.3	1.2	10.5
2003	0.0	2.4	2.4	2003	44.9	14.6	59.5
2004	0.0	0.0	0.0	2004	21.1	1.1	22.2
2005	0.0	0.0	0.0	2005	4.9	0.0	4.9
2006	0.0	0.0	0.0	2006	21.3	0.0	21.3

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2007.

Table 18. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Cordova, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	9
	Surveyed Households	7
	Sampling Fraction	77.8%
	Sample Household Members	19
	Estimated Household Members	24.4
	2000 U.S. Census Estimated Native Population	368

HARVEST AND USE INFORMATION

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	85.7%	Total Number Harvested	0.0	30.9
Hunted	0.0%	85.7%	Total Number Struck and Lost	0.0	2.6
Harvested	0.0%	85.7%	Total Number Taken	0.0	33.4
Received	0.0%	42.9%			
Gave Away	0.0%	85.7%	Number Harvested Per Capita	0.00	0.08

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

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	5	6	5	0	0	4	3	1	0	0	0	0	0	24
Struck & Lost	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Total Take	5	6	5	0	0	4	3	1	2	0	0	0	0	26
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.4	7.7	6.4	0.0	0.0	5.1	3.9	1.3	0.0	0.0	0.0	0.0	0.0	30.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	2.6
Total Take	6.4	7.7	6.4	0.0	0.0	5.1	3.9	1.3	2.6	0.0	0.0	0.0	0.0	33.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.4	7.7	6.4	0.0	0.0	5.1	3.9	1.3	0.0	0.0	0.0	0.0		30.9
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0		2.6
Total Take	6.4	7.7	6.4	0.0	0.0	5.1	3.9	1.3	2.6	0.0	0.0	0.0		33.4
Total Take (%)	19.2%	23.1%	19.2%	0.0%	0.0%	15.4%	11.5%	3.8%	7.7%	0.0%	0.0%	0.0%		100.0%
Cum. Take	6.4	14.1	20.6	20.6	20.6	25.7	29.6	30.9	33.4	33.4	33.4	33.4		
Cum. Take (%)	19.2%	42.3%	61.5%	61.5%	61.5%	76.9%	88.5%	92.3%	100.0%	100.0%	100.0%	100.0%		

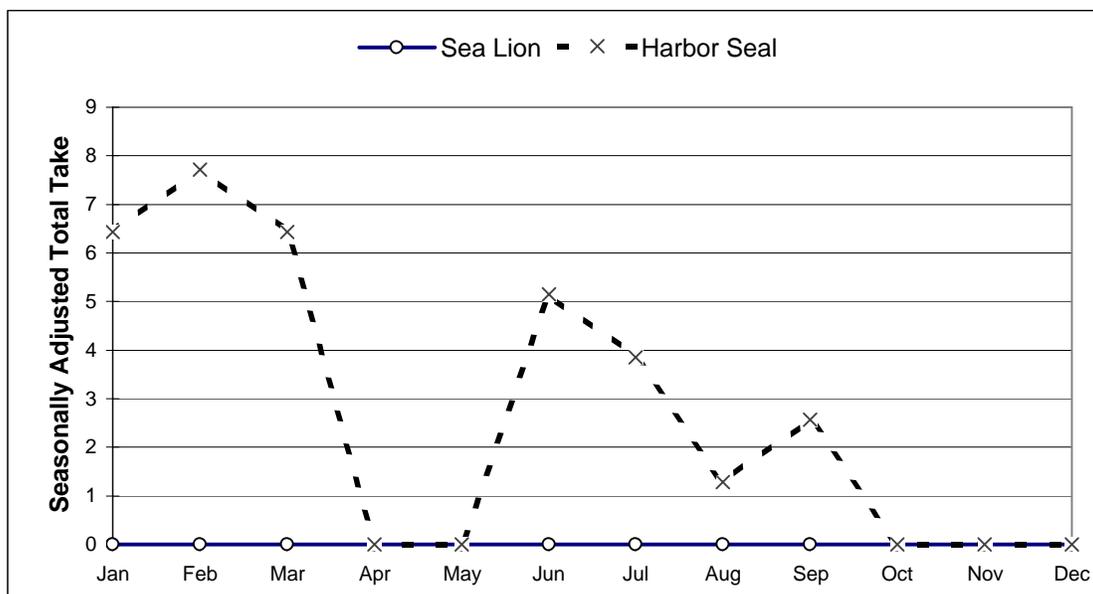
SOURCE: ANHSC Household Surveys, 2007.

Table 18. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Cordova, 2006

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	29.2%	9.0	29.2%
Adult Female	0	---	0.0	---	5	20.8%	6.4	20.8%
Adult Unknown Sex	0	---	0.0	---	9	37.5%	11.6	37.5%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	1	4.2%	1.3	4.2%
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	---	2	8.3%	2.6	8.3%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	24	100.0%	30.9	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	103.8	8.8	112.5
1993	1.5	0.0	1.5	1993	147.4	5.5	152.9
1994	0.0	0.0	0.0	1994	135.8	9.1	144.9
1995	0.0	1.0	1.0	1995	83.4	2.0	85.4
1996	0.0	0.0	0.0	1996	122.2	8.6	130.8
1997	0.0	0.0	0.0	1997	120.8	0.0	120.8
1998	0.0	0.0	0.0	1998	79.1	9.3	88.3
2000	0.0	0.0	0.0	2000	87.8	14.0	101.8
2001	3.5	0.0	3.5	2001	102.7	5.8	108.5
2002	3.5	0.0	3.5	2002	102.7	5.8	108.5
2003	2.7	0.0	2.7	2003	77.7	2.7	80.5
2004	2.7	0.0	2.7	2004	77.7	2.7	80.5
2005	0.0	0.0	0.0	2005	57.0	9.0	66.0
2006	0.0	0.0	0.0	2006	30.9	2.6	33.4

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2007.

Table 19. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Nanwalek, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	40
Surveyed Households	39
Sampling Fraction	97.5%
Sample Household Members	154
Estimated Household Members	157.9
2000 U.S. Census Estimated Native Population	165

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	23.1%	100.0%
Hunted	2.6%	30.8%
Harvested	2.6%	15.4%
Received	20.5%	97.4%
Gave Away	12.8%	35.9%

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

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	1.0	23.6
Total Number Struck and Lost	0.0	5.1
Total Number Taken	1.0	28.7
Number Harvested Per Capita	0.01	0.14

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	1	0	0	1
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	1	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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	0.0	1.0	0.0	0.0	1.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0		1.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0		1.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%		

HARBOR 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	2	6	3	12	0	0	0	0	23
Struck & Lost	0	0	0	0	0	3	2	0	0	0	0	0	0	5
Total Take	0	0	0	0	0	5	8	3	12	0	0	0	0	28
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	2.1	6.2	3.1	12.3	0.0	0.0	0.0	0.0	23.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	3.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	5.1
Total Take	0.0	0.0	0.0	0.0	0.0	5.1	8.2	3.1	12.3	0.0	0.0	0.0	0.0	28.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	2.1	6.2	3.1	12.3	0.0	0.0	0.0		23.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	3.1	2.1	0.0	0.0	0.0	0.0	0.0		5.1
Total Take	0.0	0.0	0.0	0.0	0.0	5.1	8.2	3.1	12.3	0.0	0.0	0.0		28.7
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	17.9%	28.6%	10.7%	42.9%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	5.1	13.3	16.4	28.7	28.7	28.7	28.7		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	17.9%	46.4%	57.1%	100.0%	100.0%	100.0%	100.0%		

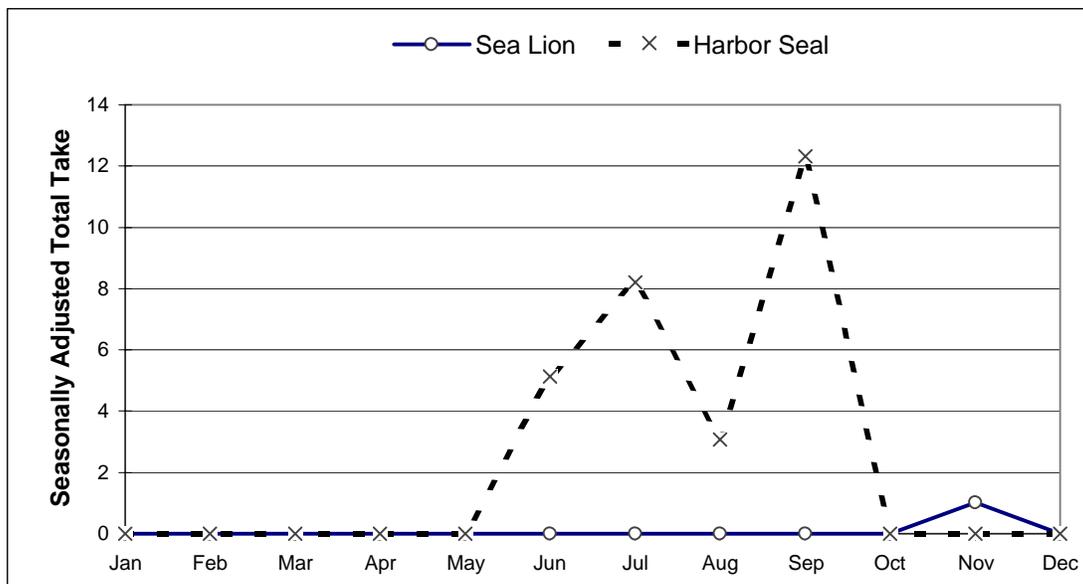
SOURCE: ANHSC Household Surveys, 2007.

Table 19. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Nanwalek, 2006

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	8.7%	2.1	8.7%
Adult Female	1	100.0%	1.0	100.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	1	4.3%	1.0	4.3%
Juvenile Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	20	87.0%	20.5	87.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	1	100.0%	1.0	100.0%	23	100.0%	23.6	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	6.3	0.0	6.3	1992	27.9	0.0	27.9
1993	8.5	1.1	9.5	1993	33.9	3.2	37.1
1994	1.2	2.3	3.5	1994	29.0	4.6	33.7
1995	9.2	0.0	9.2	1995	23.6	0.0	23.6
1996	4.3	1.1	5.3	1996	22.4	0.0	22.4
1997	0.0	0.0	0.0	1997	20.2	0.0	20.2
1998	2.1	0.0	2.1	1998	30.9	1.0	31.9
2000	6.5	0.0	6.5	2000	52.9	3.9	56.8
2001	3.7	0.0	3.7	2001	42.3	1.2	43.5
2002	2.0	0.0	2.0	2002	40.0	12.0	52.0
2003	3.0	2.0	5.0	2003	30.0	3.0	33.0
2004	2.1	0.0	2.1	2004	30.2	12.5	42.7
2005	1.1	0.0	1.1	2005	20.3	6.4	26.7
2006	1.0	0.0	1.0	2006	23.6	5.1	28.7

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2007.

Table 20. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Port Graham, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	53
Surveyed Households	27
Sampling Fraction	50.9%
Sample Household Members	62
Estimated Household Members	121.7
2000 U.S. Census Estimated Native Population	151

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	100.0%
Hunted	0.0%	29.6%
Harvested	0.0%	29.6%
Received	0.0%	92.6%
Gave Away	0.0%	81.5%

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

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	51.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	51.0
Number Harvested Per Capita	0.00	0.34

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

HARBOR SEAL HARVEST BY MONTH														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	0	0	1	1	0	6	8	6	2	0	0	0	26
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	2	0	0	1	1	0	6	8	6	2	0	0	0	26
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.9	0.0	0.0	2.0	2.0	0.0	11.8	15.7	11.8	3.9	0.0	0.0	0.0	51.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	3.9	0.0	0.0	2.0	2.0	0.0	11.8	15.7	11.8	3.9	0.0	0.0	0.0	51.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.9	0.0	0.0	2.0	2.0	0.0	11.8	15.7	11.8	3.9	0.0	0.0	0.0	51.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	3.9	0.0	0.0	2.0	2.0	0.0	11.8	15.7	11.8	3.9	0.0	0.0	0.0	51.0
Total Take (%)	7.7%	0.0%	0.0%	3.8%	3.8%	0.0%	23.1%	30.8%	23.1%	7.7%	0.0%	0.0%	0.0%	100.0%
Cum. Take	3.9	3.9	3.9	5.9	7.9	7.9	19.6	35.3	47.1	51.0	51.0	51.0	51.0	51.0
Cum. Take (%)	7.7%	7.7%	7.7%	11.5%	15.4%	15.4%	38.5%	69.2%	92.3%	100.0%	100.0%	100.0%	100.0%	100.0%

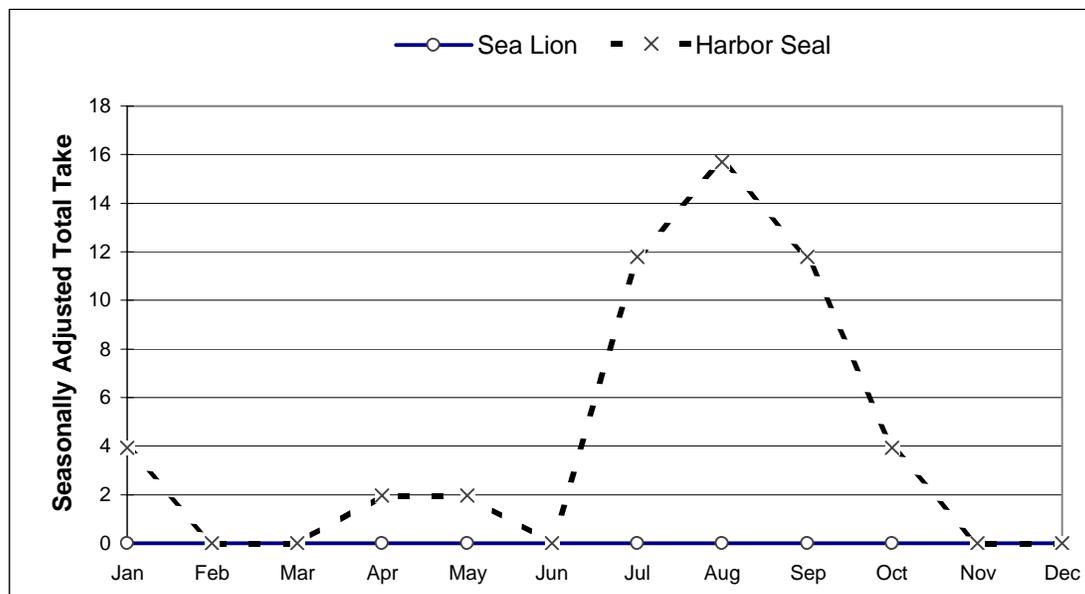
SOURCE: ANHSC Household Surveys, 2007.

Table 20. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Graham, 2006

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	7.7%	3.9	7.7%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	2	7.7%	3.9	7.7%
Juvenile Male	0	---	0.0	---	1	3.8%	2.0	3.8%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	10	38.5%	19.6	38.5%
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	---	11	42.3%	21.6	42.3%
Total	0	---	0.0	---	26	100.0%	51.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	3.5	1.2	4.7	1992	36.2	4.7	40.8
1993	1.1	0.0	1.1	1993	30.6	3.2	33.7
1994	0.0	0.0	0.0	1994	15.5	5.2	20.7
1995	10.0	2.0	12.0	1995	23.0	0.0	23.0
1996	1.1	0.0	1.1	1996	15.5	2.2	17.7
1997	0.0	0.0	0.0	1997	15.8	3.2	19.0
1998	1.2	0.0	1.2	1998	52.3	3.6	55.9
2000	1.7	3.4	5.0	2000	40.2	1.7	41.9
2001	0.0	0.0	0.0	2001	39.4	8.3	47.6
2002	0.0	0.0	0.0	2002	39.4	8.3	47.6
2003	1.0	0.0	1.0	2003	45.0	0.0	45.0
2004	6.9	5.6	12.5	2004	44.4	2.8	47.2
2005	0.0	0.0	0.0	2005	63.5	8.5	71.9
2006	0.0	0.0	0.0	2006	51.0	0.0	51.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2007.

Table 21. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Seldovia, 2006

**SAMPLING DESIGN:
CHAIN REFERRAL**

Total Referred Households	4
Surveyed Households	3
Sampling Fraction	75.0%
Sample Household Members	5
Estimated Household Members	6.7
2000 U.S. Census Estimated Native Population	66

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	100.0%
Hunted	0.0%	33.3%
Harvested	0.0%	33.3%
Received	0.0%	100.0%
Gave Away	0.0%	33.3%

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

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	2.7
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	2.7
Number Harvested Per Capita	0.00	0.04

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

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

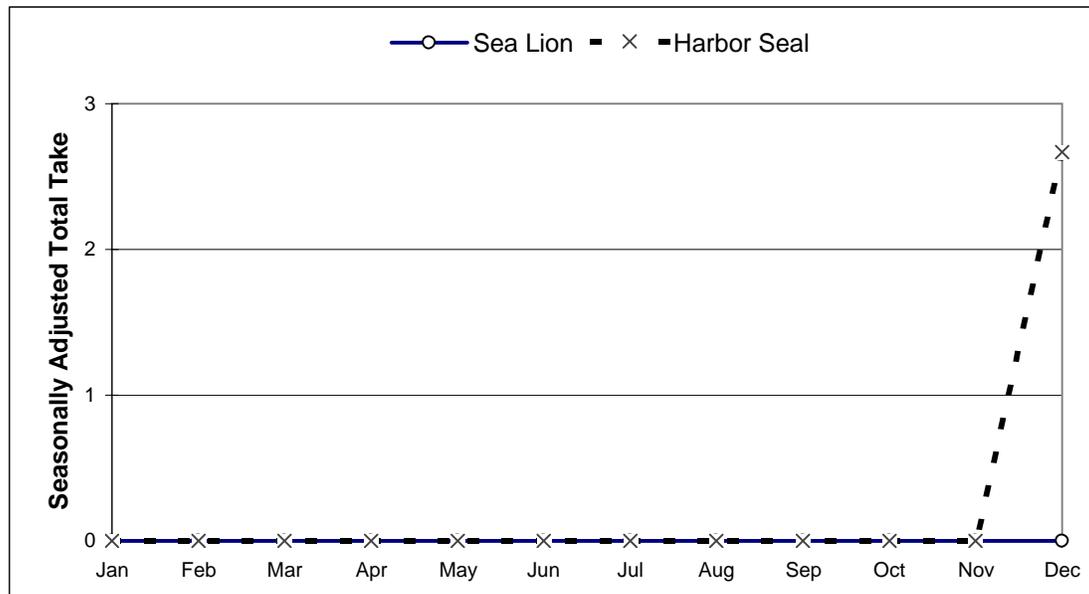
SOURCE: ANHSC Household Surveys, 2007.

Table 21. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Seldovia, 2006

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	100.0%	2.7	100.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	2	100.0%	2.7	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	12.4	0.0	12.4
1993	0.0	0.0	0.0	1993	7.9	4.9	12.8
1994	0.0	0.0	0.0	1994	8.0	0.0	8.0
1995	0.0	0.0	0.0	1995	4.0	0.0	4.0
1996	0.0	0.0	0.0	1996	3.0	0.0	3.0
1997	1.7	0.0	1.7	1997	2.8	2.8	5.5
1998	0.0	0.0	0.0	1998	3.0	0.0	3.0
2000	0.0	0.0	0.0	2000	2.0	0.0	2.0
2001	0.0	0.0	0.0	2001	3.0	0.0	3.0
2002	0.0	0.0	0.0	2002	0.0	0.0	0.0
2003	0.0	0.0	0.0	2003	0.0	0.0	0.0
2004	0.0	0.0	0.0	2004	1.0	1.0	2.0
2005	0.0	0.0	0.0	2005	1.0	1.0	2.0
2006	0.0	0.0	0.0	2006	2.7	0.0	2.7

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2007.

Table 22. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Seward, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Native Households	13
	Surveyed Households	6
	Sampling Fraction	46.2%
	Sample Household Members	18
	Estimated Household Members	39.0
	2000 U.S. Census Estimated Native Population	592

HARVEST AND USE INFORMATION

<i>Percentage of Sample Households:</i>			<i>Estimated Community Harvest and Take (Expanded):</i>		
	Sea Lion	Harbor Seal		Sea Lion	Harbor Seal
Used	0.0%	33.3%	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%	33.3%			
Gave Away	0.0%	16.7%	Number Harvested Per Capita	0.00	0.00

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

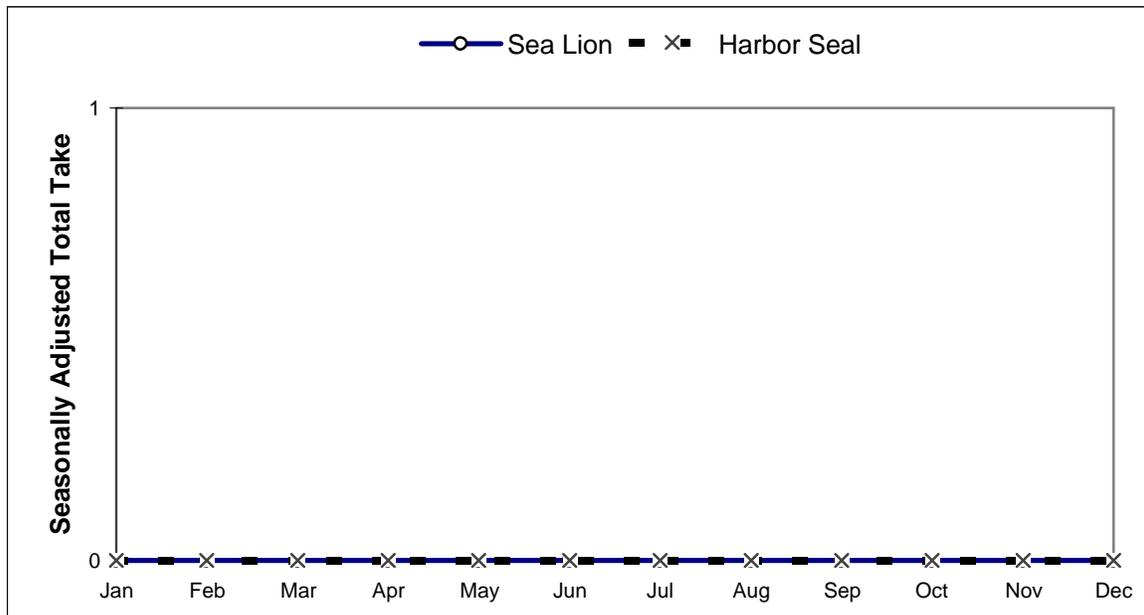
SOURCE: ANHSC Household Surveys, (Numbers based on 2005 harvest estimates).

Table 22. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Seward, 2006

HARVEST BY AGE AND SEX

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

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	2.0	0.0	2.0
1993	0.0	0.0	0.0	1993	0.0	0.0	0.0
1994	0.0	0.0	0.0	1994	5.0	0.0	5.0
1995	0.0	0.0	0.0	1995	10.9	5.5	16.4
1996	0.0	0.0	0.0	1996	5.6	0.0	5.6
1997	0.0	0.0	0.0	1997	0.0	0.0	0.0
1998	0.0	0.0	0.0	1998	0.0	0.0	0.0
2000	0.0	0.0	0.0	2000	4.0	0.0	4.0
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0
2002	0.0	0.0	0.0	2002	3.5	0.0	3.5
2003	0.0	0.0	0.0	2003	0.0	0.0	0.0
2004	0.0	0.0	0.0	2004	0.0	0.0	0.0
2005	0.0	0.0	0.0	2005	0.0	0.0	0.0
2006	0.0	0.0	0.0	2006	0.0	0.0	0.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2006 (Numbers based on 2005 harvest estimates).

Table 23. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Tatitlek, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	20
Surveyed Households	15
Sampling Fraction	75.0%
Sample Household Members	53
Estimated Household Members	70.7
2000 U.S. Census Estimated Native Population	91

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	60.0%	100.0%
Hunted	20.0%	46.7%
Harvested	13.3%	46.7%
Received	46.7%	93.3%
Gave Away	40.0%	80.0%

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

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	16.0	218.7
Total Number Struck and Lost	8.0	16.0
Total Number Taken	24.0	234.7
Number Harvested Per Capita	0.18	2.40

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	2	2	2	0	0	0	0	0	0	2	2	0	2	12
Struck & Lost	0	3	2	1	0	0	0	0	0	0	0	0	0	6
Total Take	2	5	4	1	0	0	0	0	0	2	2	0	2	18
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	0.0	2.7	16.0
Struck & Lost	0.0	4.0	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
Total Take	2.7	6.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	0.0	2.7	24.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	0.0		16.0
Struck & Lost	0.0	4.0	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		8.0
Total Take	3.2	7.2	5.9	1.3	0.0	0.0	0.0	0.0	0.0	3.2	3.2	0.0		24.0
Total Take (%)	13.3%	30.0%	24.4%	5.6%	0.0%	0.0%	0.0%	0.0%	0.0%	13.3%	13.3%	0.0%		100.0%
Cum. Take	3.2	10.4	16.3	17.6	17.6	17.6	17.6	17.6	17.6	20.8	24.0	24.0		
Cum. Take (%)	13.3%	43.3%	67.8%	73.3%	73.3%	73.3%	73.3%	73.3%	73.3%	86.7%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH													Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	12	11	8	9	10	12	13	11	10	8	11	10	39	164
Struck & Lost	1	1	0	0	1	1	2	3	2	0	1	0	0	12
Total Take	13	12	8	9	11	13	15	14	12	8	12	10	39	176
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	16.0	14.7	10.7	12.0	13.3	16.0	17.3	14.7	13.3	10.7	14.7	13.3	52.0	218.7
Struck & Lost	1.3	1.3	0.0	0.0	1.3	1.3	2.7	4.0	2.7	0.0	1.3	0.0	0.0	16.0
Total Take	17.3	16.0	10.7	14.7	14.7	17.3	20.0	18.7	16.0	10.7	16.0	13.3	52.0	234.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	21.0	19.2	14.0	15.7	17.5	21.0	22.7	19.2	17.5	14.0	19.2	17.5		218.7
Struck & Lost	1.3	1.3	0.0	0.0	1.3	1.3	2.7	4.0	2.7	0.0	1.3	0.0		16.0
Total Take	22.3	20.6	14.0	15.7	18.8	22.3	25.4	23.2	20.2	14.0	20.6	17.5		234.7
Total Take (%)	9.5%	8.8%	6.0%	6.7%	8.0%	9.5%	10.8%	9.9%	8.6%	6.0%	8.8%	7.5%		100.0%
Cum. Take	22.3	42.9	56.9	72.6	91.5	113.8	139.2	162.4	182.6	196.6	217.2	234.7		
Cum. Take (%)	9.5%	18.3%	24.2%	31.0%	39.0%	48.5%	59.3%	69.2%	77.8%	83.8%	92.5%	100.0%		

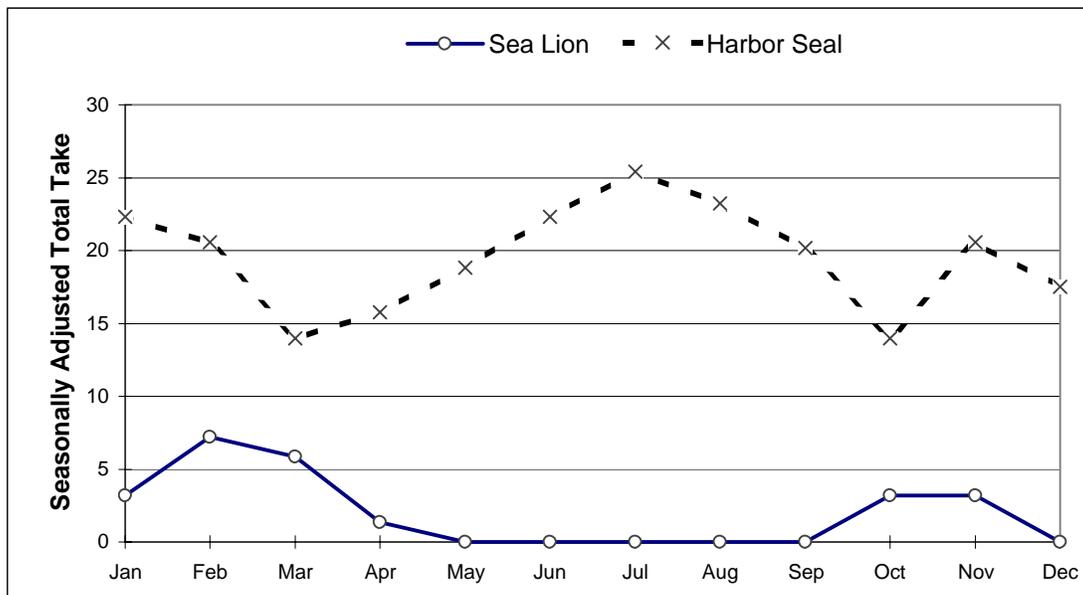
SOURCE: ANHSC Household Surveys, 2007.

Table 23. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Tatitlek, 2006

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	0.6%	1.3	0.6%
Adult Female	0	0.0%	0.0	0.0%	3	1.8%	4.0	1.8%
Adult Unknown Sex	0	0.0%	0.0	0.0%	6	3.7%	8.0	3.7%
Juvenile Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	1	0.6%	1.3	0.6%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	3	1.8%	4.0	1.8%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	1	0.6%	1.3	0.6%
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	12	100.0%	16.0	100.0%	149	90.9%	198.7	90.9%
Total	12	100.0%	16.0	100.0%	164	100.0%	218.7	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	8.3	4.2	12.5	1992	152.9	17.7	170.6
1993	4.1	1.0	5.2	1993	110.8	15.5	126.4
1994	8.8	7.4	16.2	1994	145.9	30.9	176.8
1995	2.6	0.0	2.6	1995	46.1	2.6	48.7
1996	5.0	0.0	5.0	1996	90.8	3.8	94.6
1997	2.7	1.4	4.1	1997	97.2	6.8	104.0
1998	15.1	6.8	21.9	1998	171.1	19.2	190.2
2000	1.9	0.0	1.9	2000	46.3	1.9	48.2
2001	6.3	0.0	6.3	2001	61.6	4.7	66.3
2002	0.0	0.0	0.0	2002	13.1	1.9	14.9
2003	12.4	1.1	13.5	2003	91.1	0.0	91.1
2004	26.3	10.3	36.6	2004	90.2	23.1	113.3
2005	39.0	9.1	48.1	2005	137.8	16.9	154.7
2006	16.0	8.0	24.0	2006	218.7	16.0	234.7

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2007.

Table 24. SEA LION AND HARBOR SEAL HARVEST ESTIMATES: Valdez, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	6
	Surveyed Households	2
	Sampling Fraction	33.3%
	Sample Household Members	6
	Estimated Household Members	18.0
	2000 U.S. Census Estimated Native Population	410

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	100.0%	Total Number Harvested	0.0	63.0
Hunted	0.0%	100.0%	Total Number Struck and Lost	0.0	6.0
Harvested	0.0%	100.0%	Total Number Taken	0.0	69.0
Received	0.0%	0.0%			
Gave Away	0.0%	100.0%	Number Harvested Per Capita	0.00	0.15

SEA LION HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	21	0	21
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Total Take	0	0	0	0	0	0	0	0	0	0	0	23	0	23
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	63.0	0.0	63.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	6.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.0	0.0	69.0
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	63.0	0.0	63.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	6.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.0	0.0	69.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	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	0.0	69.0	0.0	69.0
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%

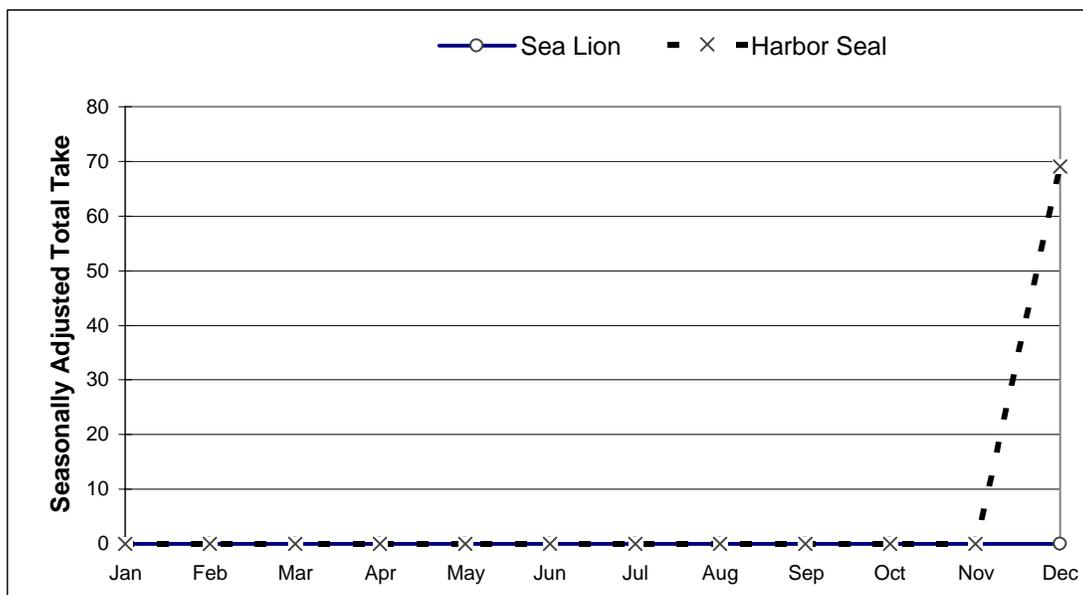
SOURCE: ANHSC Household Surveys. (Numbers based on 2005 harvest estimates).

Table 24. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Valdez, 2006

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	---	16	76.2%	48.0	76.2%
Adult Female	0	---	0.0	---	2	9.5%	6.0	9.5%
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	---	3	14.3%	9.0	14.3%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	21	100.0%	63.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	0.0	0.0	0.0
1993	0.0	0.0	0.0	1993	21.0	4.0	25.0
1994	0.0	0.0	0.0	1994	30.0	3.0	33.0
1995	0.0	0.0	0.0	1995	16.8	0.0	16.8
1996	0.0	0.0	0.0	1996	13.5	4.5	18.0
1997	0.0	0.0	0.0	1997	12.5	0.0	12.5
1998	1.7	1.7	3.3	1998	41.7	8.3	50.0
2000	1.7	1.7	3.3	2000	41.7	8.3	50.0
2001	0.0	0.0	0.0	2001	18.0	0.0	18.0
2002	0.0	0.0	0.0	2002	44.0	6.0	50.0
2003	0.0	0.0	0.0	2003	60.0	5.0	65.0
2004	0.0	0.0	0.0	2004	58.0	0.0	58.0
2005	0.0	0.0	0.0	2005	63.0	6.0	69.0
2006	0.0	0.0	0.0	2006	63.0	6.0	69.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2006 (Numbers based on 2005 harvest estimates).

Table 25. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Anchorage, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	25
	Surveyed Households	15
	Sampling Fraction	60.0%
	Sample Household Members	44
	Estimated Household Members	73.3
	2000 U.S. Census Estimated Native Population	26995

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	60.0%	Total Number Harvested	0.0	25.0
Hunted	0.0%	40.0%	Total Number Struck and Lost	0.0	13.3
Harvested	0.0%	33.3%	Total Number Taken	0.0	38.3
Received	0.0%	40.0%			
Gave Away	0.0%	33.3%	Number Harvested Per Capita	0.00	0.00

SEA LION HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	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	0	1	0	4	0	0	0	2	0	8	15
Struck & Lost	0	0	3	0	0	0	0	0	0	0	2	0	3	8
Total Take	0	0	3	0	1	0	4	0	0	0	4	0	11	23
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.7	0.0	6.7	0.0	0.0	0.0	3.3	0.0	13.3	25.0
Struck & Lost	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	5.0	13.3
Total Take	0.0	0.0	5.0	1.7	1.7	0.0	6.7	0.0	0.0	0.0	6.7	0.0	18.3	38.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	3.6	0.0	14.3	0.0	0.0	0.0	7.1	0.0	25.0	25.0
Struck & Lost	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	13.3	13.3
Total Take	0.0	0.0	8.0	0.0	3.6	0.0	14.3	0.0	0.0	0.0	12.5	0.0	38.3	38.3
Total Take (%)	0.0%	0.0%	20.9%	0.0%	9.3%	0.0%	37.3%	0.0%	0.0%	0.0%	32.5%	0.0%	100.0%	100.0%
Cum. Take	0.0	0.0	8.0	8.0	11.6	11.6	25.9	25.9	25.9	25.9	38.3	38.3	38.3	38.3
Cum. Take (%)	0.0%	0.0%	20.9%	20.9%	30.2%	30.2%	67.5%	67.5%	67.5%	67.5%	100.0%	100.0%	100.0%	100.0%

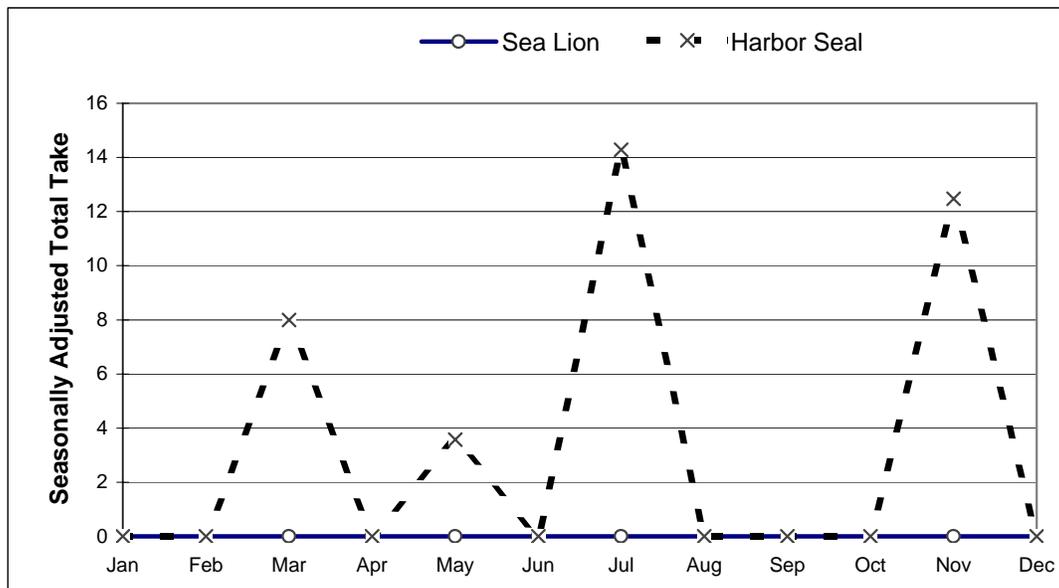
SOURCE: ANHSC Household Surveys, (Numbers based on 2005 harvest estimates).

Table 25. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Anchorage, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	2	13.3%	3.3	13.3%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	13	86.7%	21.7	86.7%
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%
Total	0	---	0.0	---	15	100.0%	25.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	5.7	3.8	9.5	1992	17.1	0.0	17.1
1993	7.8	3.3	11.1	1993	24.4	5.6	30.0
1994	1.4	0.0	1.4	1994	4.2	0.0	4.2
1995	0.0	0.0	0.0	1995	3.7	0.0	3.7
1996	1.0	0.0	1.0	1996	28.9	6.2	35.1
1997	0.0	0.0	0.0	1997	23.6	1.2	24.8
1998	0.0	0.0	0.0	1998	43.8	7.5	51.3
2000	0.0	0.0	0.0	2000	43.8	7.5	51.3
2001	1.3	0.0	1.3	2001	45.3	2.7	48.0
2002	0.0	0.0	0.0	2002	39.8	8.0	47.7
2003	0.0	0.0	0.0	2003	55.0	15.0	70.0
2004	0.0	0.0	0.0	2004	46.8	13.4	60.2
2005	0.0	0.0	0.0	2005	25.0	13.3	38.3
2006	0.0	0.0	0.0	2006	25.0	13.3	38.3

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2006 (Numbers based on 2005 harvest estimates).

Table 26. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Homer, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	13
	Surveyed Households	7
	Sampling Fraction	53.8%
	Sample Household Members	22
	Estimated Household Members	40.9
	2000 U.S. Census Estimated Native Population	371

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	42.9%	Total Number Harvested	0.0	5.6
Hunted	0.0%	28.6%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	28.6%	Total Number Taken	0.0	5.6
Received	0.0%	28.6%			
Gave Away	0.0%	28.6%	Number Harvested Per Capita	0.00	0.02

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

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	1	1	1	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	0	1	1	1	0	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	5.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	5.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	5.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	0.0	0.0	0.0	5.6
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	33.3%	33.3%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.7	5.6	5.6	5.6	5.6	5.6
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	66.7%	100.0%	100.0%	100.0%	100.0%	100.0%

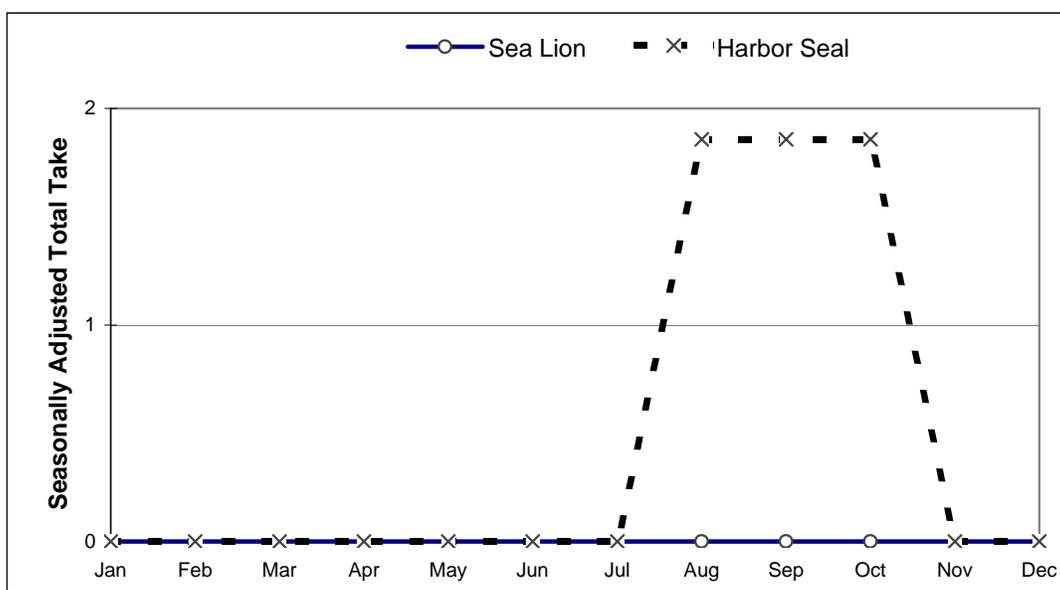
SOURCE: ANHSC Household Surveys, (Numbers based on 2005 harvest estimates).

Table 26. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Homer, 2006

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	33.3%	1.9	33.3%
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	---	2	66.7%	3.7	66.7%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	3	100.0%	5.6	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	---	---	---	1992	---	---	---
1993	0.0	0.0	0.0	1993	4.8	0.0	4.8
1994	0.0	0.0	0.0	1994	12.0	0.0	12.0
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0
1996	0.0	0.0	0.0	1996	10.5	1.5	12.0
1997	0.0	0.0	0.0	1997	41.1	2.6	43.7
1998	0.0	0.0	0.0	1998	22.8	6.0	28.8
2000	0.0	0.0	0.0	2000	22.8	6.0	28.8
2001	0.0	0.0	0.0	2001	21.0	0.0	21.0
2002	0.0	0.0	0.0	2002	23.5	0.0	23.5
2003	0.0	0.0	0.0	2003	10.8	0.0	10.8
2004	0.0	0.0	0.0	2004	3.7	0.0	3.7
2005	0.0	0.0	0.0	2005	5.6	0.0	5.6
2006	0.0	0.0	0.0	2006	5.6	0.0	5.6

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2006 (Numbers based on 2005 harvest estimates).

Table 27. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kenai, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	3
	Surveyed Households	1
	Sampling Fraction	33.3%
	Sample Household Members	4
	Estimated Household Members	12.0
	2000 U.S. Census Estimated Native Population	2120

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	100.0%	Total Number Harvested	0.0	6.0
Hunted	0.0%	100.0%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	100.0%	Total Number Taken	0.0	6.0
Received	0.0%	0.0%			
Gave Away	0.0%	100.0%	Number Harvested Per Capita	0.00	0.00

SEA LION HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	2	2
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	2	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	6.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	6.0
Total Take (%)	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	100.0%
Cum. Take	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.0	6.0
Cum. Take (%)	8.3%	16.7%	25.0%	33.3%	41.7%	50.0%	58.3%	66.7%	75.0%	83.3%	91.7%	100.0%	100.0%	100.0%

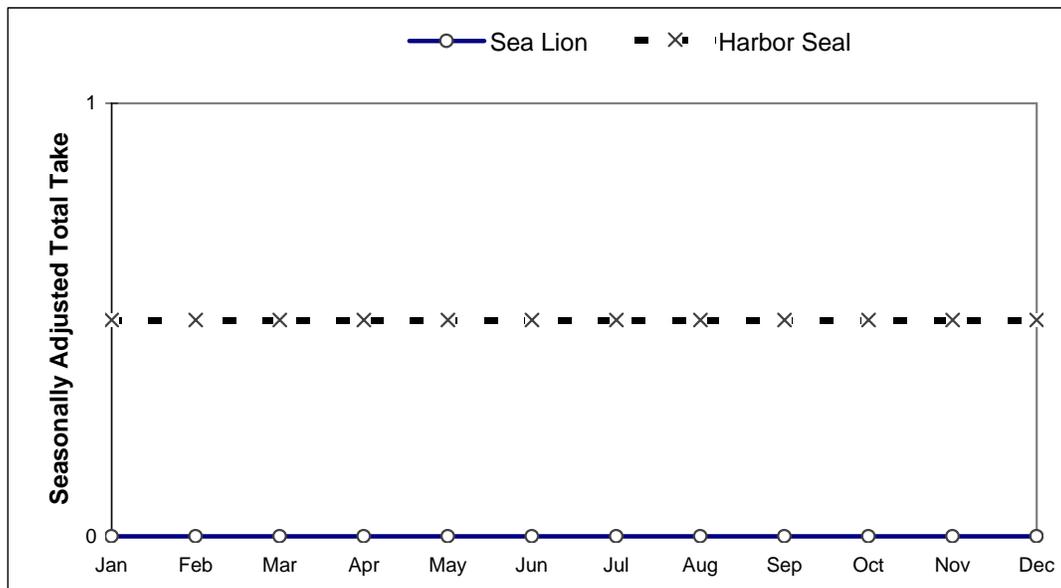
SOURCE: ANHSC Household Surveys, (Numbers based on 2005 harvest estimates).

Table 27. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kenai, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	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	100.0%	6.0	100.0%
Total	0	---	0.0	---	2	100.0%	6.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	33.3	0.0	33.3
1993	0.0	0.0	0.0	1993	20.0	0.0	20.0
1994	---	---	---	1994	---	---	---
1995	---	---	---	1995	---	---	---
1996	2.3	0.0	2.3	1996	22.9	1.1	24.0
1997	0.0	0.0	0.0	1997	35.0	5.0	40.0
1998	0.0	0.0	0.0	1998	12.6	0.0	12.6
2000	0.0	0.0	0.0	2000	12.6	0.0	12.6
2001	0.0	0.0	0.0	2001	24.9	0.0	24.9
2002	0.0	0.0	0.0	2002	9.0	0.0	9.0
2003	0.0	0.0	0.0	2003	20.0	0.0	20.0
2004	0.0	0.0	0.0	2004	6.0	0.0	6.0
2005	0.0	0.0	0.0	2005	6.0	0.0	6.0
2006	0.0	0.0	0.0	2006	6.0	0.0	6.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2006 (Numbers based on 2005 harvest estimates).

Table 28. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Tyonek, 2006

SAMPLING DESIGN:

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

HARVEST AND USE INFORMATION

<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%	100.0%	Total Number Harvested	0.0	1.0
Hunted	0.0%	50.0%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	50.0%	Total Number Taken	0.0	1.0
Received	0.0%	50.0%			
Gave Away	0.0%	100.0%	Number Harvested Per Capita	0.00	0.01

SEA LION HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---
HARBOR SEAL HARVEST BY MONTH														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	1	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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	0.0	0.0	0.0	1.0	1.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0
Total Take (%)	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	8.3%	100.0%
Cum. Take	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.0	1.0
Cum. Take (%)	8.3%	16.7%	25.0%	33.3%	41.7%	50.0%	58.3%	66.7%	75.0%	83.3%	91.7%	100.0%	100.0%	100.0%

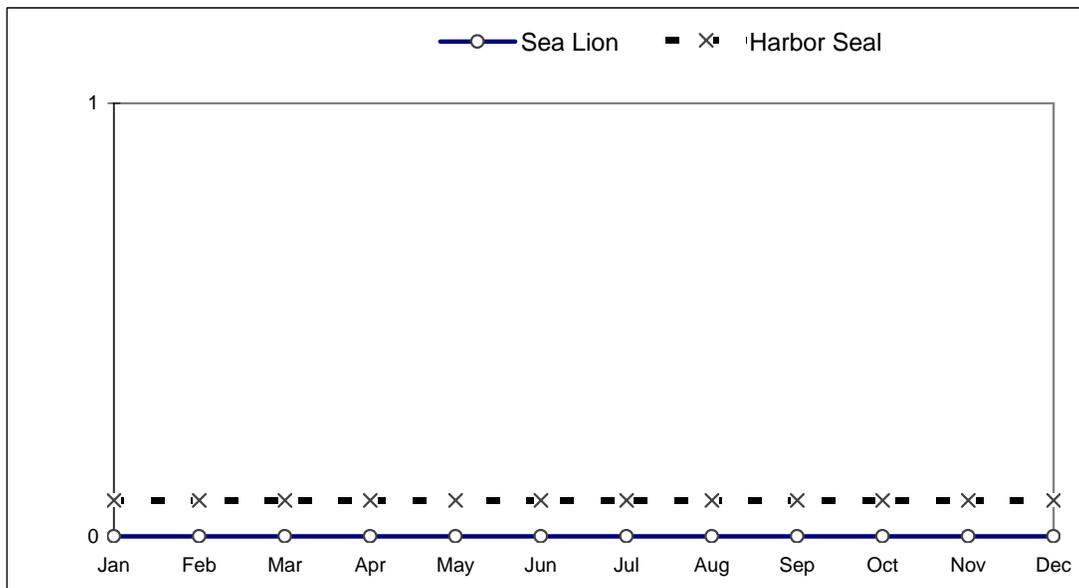
SOURCE: ANHSC Household Surveys. (Numbers based on 2005 harvest estimates).

Table 28. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Tyonek, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	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	100.0%	1.0	100.0%
Total	0	---	0.0	---	1	100.0%	1.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	1.1	0.0	1.1
1993	---	---	---	1993	---	---	---
1994	---	---	---	1994	---	---	---
1995	---	---	---	1995	---	---	---
1996	0.0	0.0	0.0	1996	2.0	0.0	2.0
1997	---	---	---	1997	---	---	---
1998	0.0	0.0	0.0	1998	0.0	0.0	0.0
2000	0.0	0.0	0.0	2000	0.0	0.0	0.0
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0
2002	0.0	0.0	0.0	2002	3.0	0.0	3.0
2003	0.0	0.0	0.0	2003	5.0	0.0	5.0
2004	0.0	0.0	0.0	2004	0.0	0.0	0.0
2005	0.0	0.0	0.0	2005	1.0	0.0	1.0
2006	0.0	0.0	0.0	2006	1.0	0.0	1.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2006 (Numbers based on 2005 harvest estimates).

Table 29. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Akhiok, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	17
Surveyed Households	15
Sampling Fraction	88.2%
Sample Household Members	42
Estimated Household Members	47.6
2000 U.S. Census Estimated Native Population	75

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	20.0%	100.0%
Hunted	13.3%	53.3%
Harvested	13.3%	53.3%
Received	13.3%	93.3%
Gave Away	6.7%	66.7%

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

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	2.3	13.6
Total Number Struck and Lost	0.0	1.1
Total Number Taken	2.3	14.7
Number Harvested Per Capita	0.03	0.18

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	2	0	2
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	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	0.0
Total Take	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	0.0	2.3
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	2.3		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	0.0	0.0	0.0	0.0	2.3		2.3
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	2	1	7	2	0	12
Struck & Lost	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Total Take	0	0	0	0	0	0	0	0	2	2	7	2	0	13
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.1	7.9	2.3	0.0	13.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.1
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	7.9	2.3	0.0	14.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.1	7.9	2.3		13.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0		1.1
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	7.9	2.3		14.7
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.4%	15.4%	53.8%	15.4%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.5	12.5	14.7		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.4%	30.8%	84.6%	100.0%		

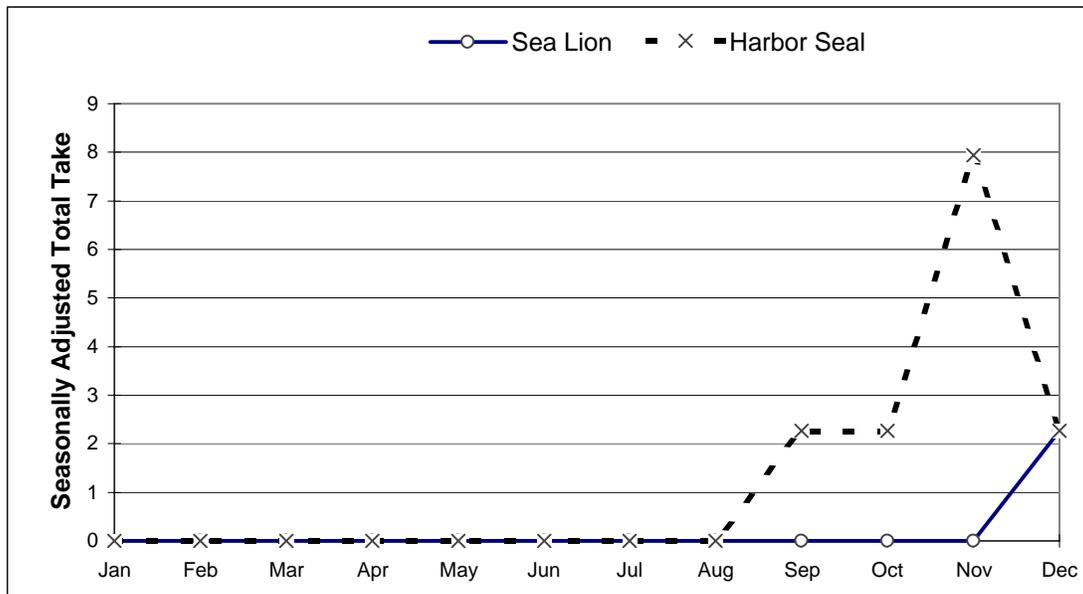
SOURCE: ANHSC Household Surveys, 2007.

Table 29. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Akhiok, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	1	50.0%	1.1	50.0%	5	41.7%	5.7	41.7%
Adult Female	1	50.0%	1.1	50.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	3	25.0%	3.4	25.0%
Juvenile Male	0	0.0%	0.0	0.0%	2	16.7%	2.3	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%	1	8.3%	1.1	8.3%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	1	8.3%	1.1	8.3%
Total	2	100.0%	2.3	100.0%	12	100.0%	13.6	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	3.0	1.0	4.0	1992	20.0	3.0	23.0
1993	0.0	0.0	0.0	1993	13.3	0.0	13.3
1994	3.2	0.0	3.2	1994	14.5	0.0	14.5
1995	1.0	1.0	2.0	1995	5.0	0.0	5.0
1996	6.0	1.0	7.0	1996	12.0	1.0	13.0
1997	6.6	1.3	7.9	1997	7.9	0.0	7.9
1998	3.1	0.0	3.1	1998	7.3	0.0	7.3
2000	3.2	0.0	3.2	2000	17.6	0.0	17.6
2001	1.4	0.0	1.4	2001	7.2	0.0	7.2
2002	0.0	0.0	0.0	2002	6.3	0.0	6.3
2003	2.7	1.4	4.1	2003	5.5	0.0	5.5
2004	1.4	0.0	1.4	2004	4.2	1.4	5.6
2005	0.0	0.0	0.0	2005	6.9	0.0	6.9
2006	2.3	0.0	2.3	2006	13.6	1.1	14.7

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2007.

Table 30. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Karluk, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	14
Surveyed Households	13
Sampling Fraction	92.9%
Sample Household Members	36
Estimated Household Members	38.8
2000 U.S. Census Estimated Native Population	26

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	76.9%
Hunted	0.0%	76.9%
Harvested	0.0%	76.9%
Received	0.0%	38.5%
Gave Away	0.0%	46.2%

*Estimated Community Harvest
and Take (Expanded):*

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	19.4
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	19.4
Number Harvested Per Capita	0.00	0.75

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	1	0	0	0	0	0	0	9	6	2	0	0	18
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	1	0	0	0	0	0	0	9	6	2	0	0	18
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	9.7	6.5	2.2	0.0	0.0	19.4
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	1.1	0.0	0.0	0.0	0.0	0.0	0.0	9.7	6.5	2.2	0.0	0.0	19.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	9.7	6.5	2.2	0.0	0.0	19.4
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	1.1	0.0	0.0	0.0	0.0	0.0	0.0	9.7	6.5	2.2	0.0	0.0	19.4
Total Take (%)	0.0%	5.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	33.3%	11.1%	0.0%	0.0%	100.0%
Cum. Take	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	10.8	17.2	19.4	19.4	19.4	19.4
Cum. Take (%)	0.0%	5.6%	5.6%	5.6%	5.6%	5.6%	5.6%	5.6%	55.6%	88.9%	100.0%	100.0%	100.0%	100.0%

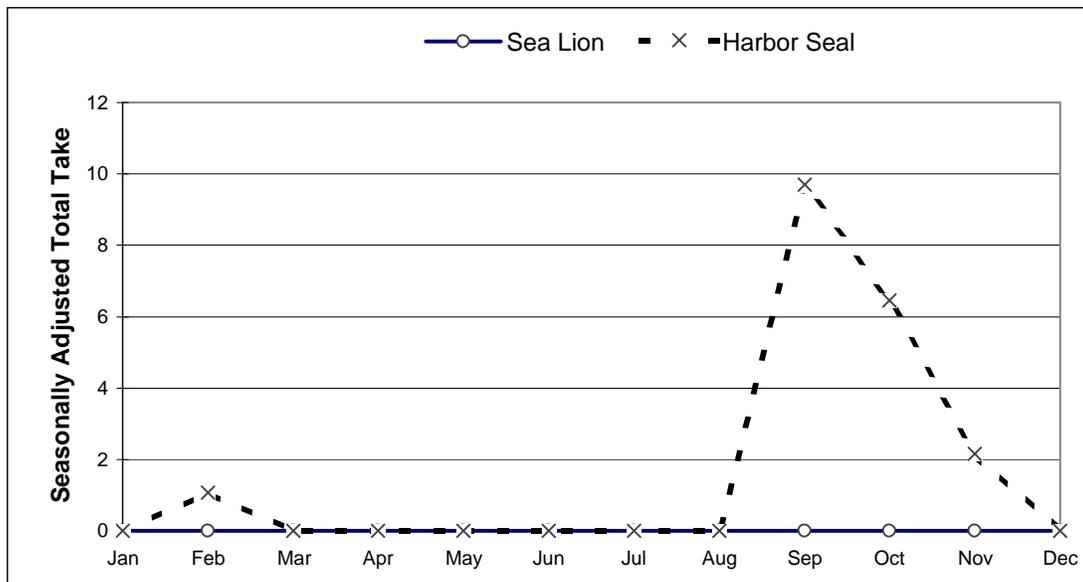
SOURCE: ANHSC Household Surveys, (Numbers based on 2005 harvest estimates)

Table 30. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Karluk, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Female	0	---	0.0	---	2	11.1%	2.2	11.1%
Adult Unknown Sex	0	---	0.0	---	13	72.2%	14.0	72.2%
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	---	3	16.7%	3.2	16.7%
Total	0	---	0.0	---	18	100.0%	19.4	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	16.5	1.5	18.0
1993	0.0	0.0	0.0	1993	10.0	1.3	11.3
1994	0.0	0.0	0.0	1994	7.5	0.0	7.5
1995	0.0	0.0	0.0	1995	28.1	6.8	34.9
1996	0.0	0.0	0.0	1996	15.1	0.0	15.1
1997	0.0	0.0	0.0	1997	19.0	0.0	19.0
1998	0.0	0.0	0.0	1998	11.0	0.0	11.0
2000	0.0	0.0	0.0	2000	19.5	1.5	21.0
2001	0.0	0.0	0.0	2001	8.3	0.0	8.3
2002	0.0	0.0	0.0	2002	8.3	0.0	8.3
2003	0.0	0.0	0.0	2003	4.3	0.0	4.3
2004	0.0	0.0	0.0	2004	3.1	0.0	3.1
2005	0.0	0.0	0.0	2005	19.4	0.0	19.4
2006	0.0	0.0	0.0	2006	19.4	0.0	19.4

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2006 (Numbers based on 2005 harvest estimates).

Table 31. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Kodiak City, 2006

**SAMPLING DESIGN:
CHAIN REFERRAL**

Total Referred Households	17
Surveyed Households	11
Sampling Fraction	64.7%
Sample Household Members	34
Estimated Household Members	52.5
2000 U.S. Census Estimated Native Population	829

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	54.5%	Total Number Harvested	0.0	10.8
Hunted	0.0%	27.3%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	27.3%	Total Number Taken	0.0	10.8
Received	0.0%	27.3%			
Gave Away	0.0%	18.2%	Number Harvested Per Capita	0.00	0.01

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

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	2	2	3	0	0	0	7
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	2	2	3	0	0	0	7
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	4.6	0.0	0.0	0.0	10.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	4.6	0.0	0.0	0.0	10.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	4.6	0.0	0.0	0.0	10.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	4.6	0.0	0.0	0.0	10.8
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	28.6%	28.6%	42.9%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.2	10.8	10.8	10.8	10.8	10.8
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	28.6%	57.1%	100.0%	100.0%	100.0%	100.0%	100.0%

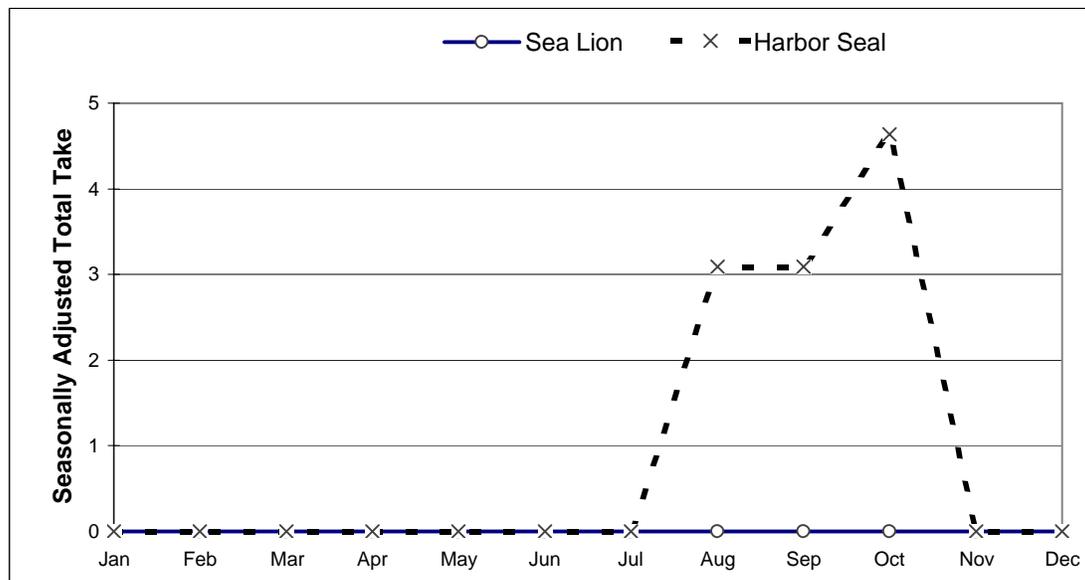
SOURCE: ANHSC Household Surveys, (Numbers based on 2005 harvest estimates)

Table 31. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Kodiak City, 2006

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	71.4%	7.7	71.4%
Adult Female	0	---	0.0	---	1	14.3%	1.5	14.3%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	1	14.3%	1.5	14.3%
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%
Total	0	---	0.0	---	7	100.0%	10.8	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	36.9	0.0	36.9
1993	0.0	12.7	12.7	1993	6.0	1.0	7.0
1994	1.1	0.0	1.1	1994	7.6	0.0	7.6
1995	2.2	0.0	2.2	1995	8.8	0.0	8.8
1996	3.0	0.0	3.0	1996	9.0	0.0	9.0
1997	3.0	0.0	3.0	1997	13.0	0.0	13.0
1998	0.0	1.0	1.0	1998	11.0	0.0	11.0
2000	2.4	0.0	2.4	2000	21.6	4.8	26.4
2001	2.5	0.0	2.5	2001	17.5	0.0	17.5
2002	2.5	0.0	2.5	2002	17.5	0.0	17.5
2003	0.0	0.0	0.0	2003	32.0	6.0	38.0
2004	0.0	0.0	0.0	2004	21.0	4.5	25.5
2005	0.0	0.0	0.0	2005	10.8	0.0	10.8
2006	0.0	0.0	0.0	2006	10.8	0.0	10.8

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2006 (Numbers based on 2005 harvest estimates).

Table 32. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Larsen Bay, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	35
Surveyed Households	19
Sampling Fraction	54.3%
Sample Household Members	45
Estimated Household Members	82.9
2000 U.S. Census Estimated Native Population	91

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	57.9%
Hunted	0.0%	31.6%
Harvested	0.0%	31.6%
Received	0.0%	36.8%
Gave Away	0.0%	36.8%

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

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	20.3
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	20.3
Number Harvested Per Capita	0.00	0.22

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

HARBOR SEAL HARVEST BY MONTH														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	0	2	0	0	1	0	0	1	1	1	2	0	11
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	3	0	2	0	0	1	0	0	1	1	1	2	0	11
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.5	0.0	3.7	0.0	0.0	1.8	0.0	0.0	1.8	1.8	1.8	3.7	0.0	20.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	5.5	0.0	3.7	0.0	0.0	1.8	0.0	0.0	1.8	1.8	1.8	3.7	0.0	20.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	5.5	0.0	3.7	0.0	0.0	1.8	0.0	0.0	1.8	1.8	1.8	3.7	0.0	20.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	5.5	0.0	3.7	0.0	0.0	1.8	0.0	0.0	1.8	1.8	1.8	3.7	0.0	20.3
Total Take (%)	27.3%	0.0%	18.2%	0.0%	0.0%	9.1%	0.0%	0.0%	9.1%	9.1%	9.1%	18.2%	0.0%	100.0%
Cum. Take	5.5	5.5	9.2	9.2	9.2	11.1	11.1	11.1	12.9	14.7	16.6	20.3	20.3	20.3
Cum. Take (%)	27.3%	27.3%	45.5%	45.5%	45.5%	54.5%	54.5%	54.5%	63.6%	72.7%	81.8%	100.0%	100.0%	100.0%

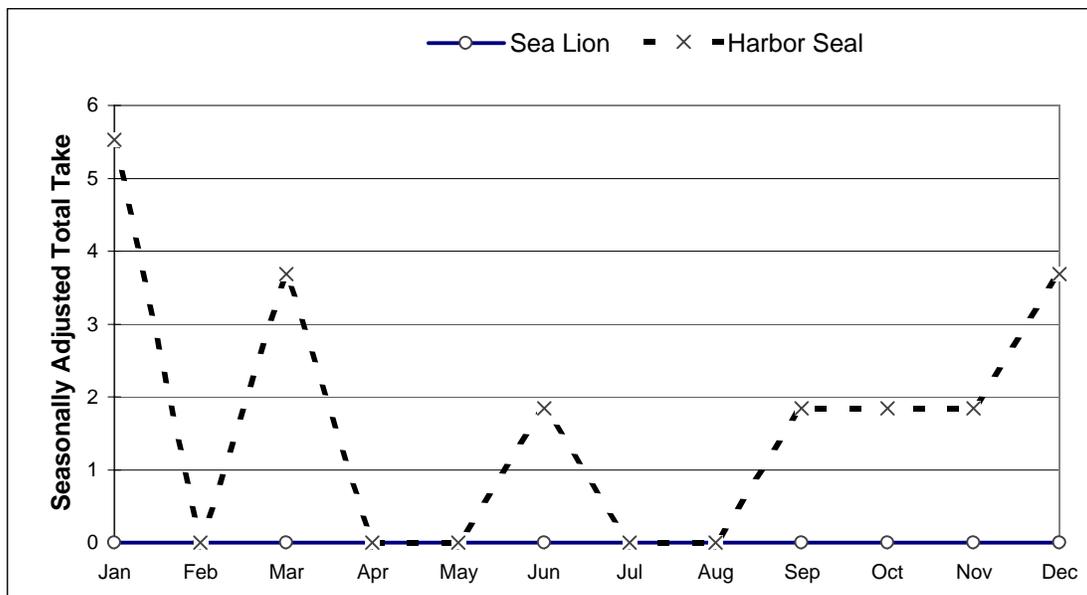
SOURCE: ANHSC Household Surveys, 2007.

Table 32. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Larsen Bay, 2006

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	81.8%	16.6	81.8%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	2	18.2%	3.7	18.2%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	11	100.0%	20.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	1.1	0.0	1.1	1992	6.5	0.0	6.5
1993	0.0	0.0	0.0	1993	7.7	5.5	13.2
1994	2.2	0.0	2.2	1994	13.4	2.2	15.7
1995	2.0	1.0	3.0	1995	11.0	0.0	11.0
1996	0.0	0.0	0.0	1996	15.0	0.0	15.0
1997	0.0	0.0	0.0	1997	9.8	4.2	13.9
1998	0.0	0.0	0.0	1998	1.7	0.0	1.7
2000	0.0	0.0	0.0	2000	18.6	0.0	18.6
2001	0.0	0.0	0.0	2001	9.0	1.1	10.2
2002	0.0	0.0	0.0	2002	3.3	0.0	3.3
2003	0.0	0.0	0.0	2003	2.5	0.0	2.5
2004	0.0	0.0	0.0	2004	12.5	0.0	12.5
2005	0.0	0.0	0.0	2005	17.0	0.0	17.0
2006	0.0	0.0	0.0	2006	20.3	0.0	20.3

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2007.

Table 33. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Old Harbor, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	67
Surveyed Households	63
Sampling Fraction	94.0%
Sample Household Members	168
Estimated Household Members	178.7
2000 U.S. Census Estimated Native Population	203

HARVEST AND USE INFORMATION

Percentage of Sample Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	30.2%	79.4%
Hunted	1.6%	17.5%
Harvested	1.6%	17.5%
Received	28.6%	68.3%
Gave Away	17.5%	44.4%

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

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	1.1	20.2
Total Number Struck and Lost	0.0	0.0
Total Number Taken	1.1	20.2
Number Harvested Per Capita	0.01	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	1	0	0	0	1
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	1	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0		1.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0		1.1
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	1	0	0	1	1	3	3	1	5	3	0	19
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	0	1	0	0	1	1	3	3	1	5	3	0	19
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.1	0.0	1.1	0.0	0.0	1.1	1.1	3.2	3.2	1.1	5.3	3.2	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	1.1	0.0	1.1	0.0	0.0	1.1	1.1	3.2	3.2	1.1	5.3	3.2	0.0	20.2
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.1	0.0	1.1	0.0	0.0	1.1	1.1	3.2	3.2	1.1	5.3	3.2		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
Total Take	1.1	0.0	1.1	0.0	0.0	1.1	1.1	3.2	3.2	1.1	5.3	3.2		20.2
Total Take (%)	5.3%	0.0%	5.3%	0.0%	0.0%	5.3%	5.3%	15.8%	15.8%	5.3%	26.3%	15.8%		100.0%
Cum. Take	1.1	1.1	2.1	2.1	2.1	3.2	4.3	7.4	10.6	11.7	17.0	20.2		
Cum. Take (%)	5.3%	5.3%	10.5%	10.5%	10.5%	15.8%	21.1%	36.8%	52.6%	57.9%	84.2%	100.0%		

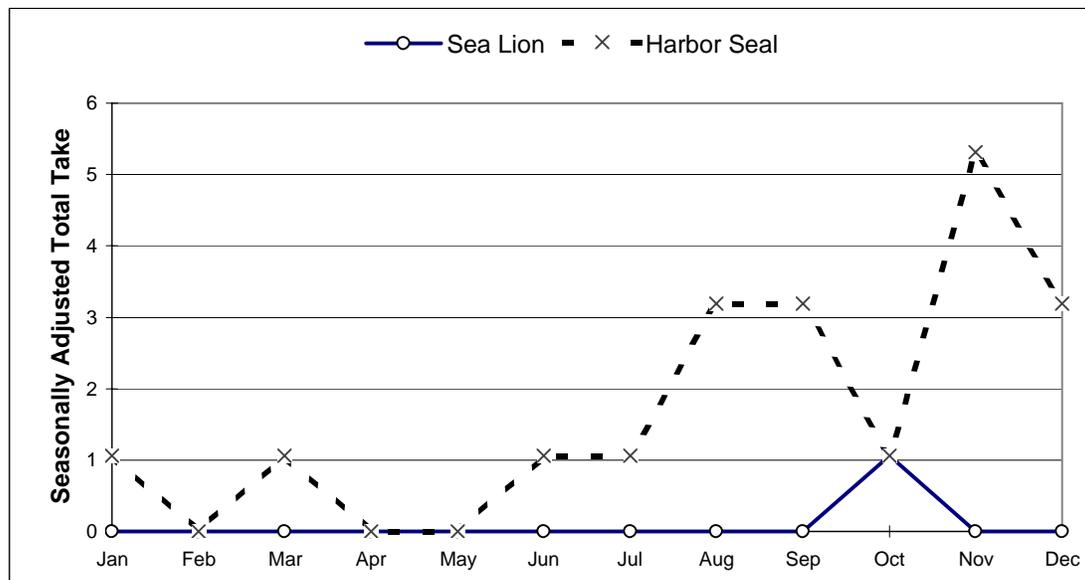
SOURCE: ANHSC Household Surveys, 2007.

Table 33. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Old Harbor, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by		Community Est.		Reported by		Community Est.	
	Sample		(Expanded)		Sample		(Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	1	100.0%	1.1	100.0%	12	63.2%	12.8	63.2%
Adult Female	0	0.0%	0.0	0.0%	4	21.1%	4.3	21.1%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%	2	10.5%	2.1	10.5%
Juvenile Female	0	0.0%	0.0	0.0%	1	5.3%	1.1	5.3%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	1	100.0%	1.1	100.0%	19	100.0%	20.2	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	32.9	13.2	46.1	1992	86.8	5.3	92.1
1993	32.1	1.0	33.2	1993	67.6	2.7	70.3
1994	46.2	1.3	47.5	1994	83.7	1.3	85.0
1995	107.1	5.7	112.9	1995	112.0	2.4	114.4
1996	44.9	5.3	50.2	1996	113.5	1.3	114.8
1997	22.7	3.6	26.3	1997	80.0	4.8	84.8
1998	10.3	2.3	12.6	1998	55.1	1.1	56.2
2000	12.9	0.0	12.9	2000	59.1	0.0	59.1
2001	26.3	2.2	28.5	2001	71.3	0.0	71.3
2002	8.5	0.0	8.5	2002	40.5	0.0	40.5
2003	27.6	4.4	31.9	2003	66.7	2.9	69.6
2004	8.3	3.5	11.8	2004	37.8	5.9	43.7
2005	18.2	3.2	21.4	2005	37.5	1.1	38.6
2006	1.1	0.0	1.1	2006	20.2	0.0	20.2

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2007.

Table 34. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ouzinkie, 2006

**SAMPLING DESIGN:
CHAIN REFERRAL**

Total Native Households	49
Surveyed Households	43
Sampling Fraction	87.8%
Sample Household Members	132
Estimated Household Members	150.4
2000 U.S. Census Estimated Native Population	197

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	100.0%	Total Number Harvested	0.0	49.0
Hunted	0.0%	67.4%	Total Number Struck and Lost	0.0	9.1
Harvested	0.0%	41.9%	Total Number Taken	0.0	58.1
Received	0.0%	86.0%			
Gave Away	0.0%	44.2%	Number Harvested Per Capita	0.00	0.25

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	2	3	4	2	1	2	3	4	7	8	5	0	43
Struck & Lost	1	0	0	0	0	0	0	0	2	2	2	1	0	8
Total Take	3	2	3	4	2	1	2	3	6	9	10	6	0	51
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.3	2.3	3.4	4.6	2.3	1.1	2.3	3.4	4.6	8.0	9.1	5.7	0.0	49.0
Struck & Lost	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	2.3	1.1	0.0	9.1
Total Take	3.4	2.3	3.4	4.6	2.3	1.1	2.3	3.4	6.8	10.3	11.4	6.8	0.0	58.1
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.3	2.3	3.4	4.6	2.3	1.1	2.3	3.4	4.6	8.0	9.1	5.7	0.0	49.0
Struck & Lost	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	2.3	2.3	1.1	0.0	9.1
Total Take	3.4	2.3	3.4	4.6	2.3	1.1	2.3	3.4	6.8	10.3	11.4	6.8	0.0	58.1
Total Take (%)	5.9%	3.9%	5.9%	7.8%	3.9%	2.0%	3.9%	5.9%	11.8%	17.6%	19.6%	11.8%	0.0%	100.0%
Cum. Take	3.4	5.7	9.1	13.7	16.0	17.1	19.4	22.8	29.6	39.9	51.3	58.1	58.1	58.1
Cum. Take (%)	5.9%	9.8%	15.7%	23.5%	27.5%	29.4%	33.3%	39.2%	51.0%	68.6%	88.2%	100.0%	100.0%	100.0%

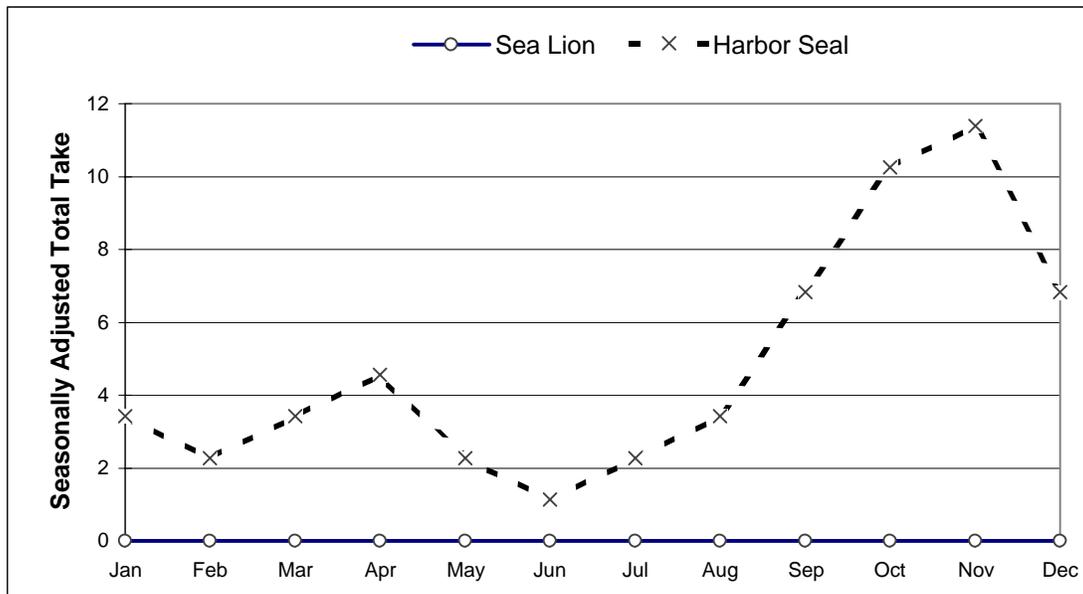
SOURCE: ANHSC Household Surveys, 2007.

Table 34. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ouzinkie, 2006

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	48.8%	23.9	48.8%
Adult Female	0	---	0.0	---	10	23.3%	11.4	23.3%
Adult Unknown Sex	0	---	0.0	---	11	25.6%	12.5	25.6%
Juvenile Male	0	---	0.0	---	1	2.3%	1.1	2.3%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	43	100.0%	49.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	3.4	0.0	3.4	1992	21.8	1.1	23.0
1993	5.4	2.2	7.6	1993	41.2	8.7	49.8
1994	4.4	2.9	7.3	1994	33.4	0.0	33.4
1995	15.6	0.0	15.6	1995	56.1	0.0	56.1
1996	0.0	0.0	0.0	1996	16.7	2.6	19.3
1997	0.0	0.0	0.0	1997	55.2	9.4	64.6
1998	0.0	0.0	0.0	1998	82.0	2.5	84.5
2000	0.0	0.0	0.0	2000	43.0	1.0	44.0
2001	2.6	0.0	2.6	2001	33.4	2.6	36.0
2002	5.1	0.0	5.1	2002	63.4	10.2	73.6
2003	0.0	0.0	0.0	2003	48.8	4.1	52.8
2004	2.6	0.0	2.6	2004	73.0	3.9	76.9
2005	0.0	0.0	0.0	2005	136.6	9.5	146.1
2006	0.0	0.0	0.0	2006	49.0	9.1	58.1

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2007.

Table 35. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Port Lions, 2006

**SAMPLING DESIGN:
CHAIN REFERRAL**

Total Referred Households	11
Surveyed Households	3
Sampling Fraction	27.3%
Sample Household Members	13
Estimated Household Members	47.7
2000 U.S. Census Estimated Native Population	163

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea <u>Lion</u>	Harbor <u>Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	33.3%	100.0%	Total Number Harvested	3.7	77.0
Hunted	33.3%	66.7%	Total Number Struck and Lost	0.0	0.0
Harvested	33.3%	66.7%	Total Number Taken	3.7	77.0
Received	0.0%	66.7%			
Gave Away	0.0%	66.7%	Number Harvested Per Capita	0.02	0.47

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	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	0	0	0	0	0	0	0	0	0	0	0	0	1
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
Total Take (%)	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	
Cum. Take (%)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	1	1	1	1	2	0	1	3	2	5	3	0	21
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	1	1	1	1	2	0	1	3	2	5	3	0	21
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.7	3.7	3.7	3.7	3.7	7.3	0.0	3.7	11.0	7.3	18.3	11.0	0.0	77.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	3.7	3.7	3.7	3.7	3.7	7.3	0.0	3.7	11.0	7.3	18.3	11.0	0.0	77.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.7	3.7	3.7	3.7	3.7	7.3	0.0	3.7	11.0	7.3	18.3	11.0		77.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	3.7	3.7	3.7	3.7	3.7	7.3	0.0	3.7	11.0	7.3	18.3	11.0		77.0
Total Take (%)	4.8%	4.8%	4.8%	4.8%	4.8%	9.5%	0.0%	4.8%	14.3%	9.5%	23.8%	14.3%		100.0%
Cum. Take	3.7	7.3	11.0	14.7	18.3	25.7	25.7	29.3	40.3	47.7	66.0	77.0		
Cum. Take (%)	4.8%	9.5%	14.3%	19.0%	23.8%	33.3%	33.3%	38.1%	52.4%	61.9%	85.7%	100.0%		

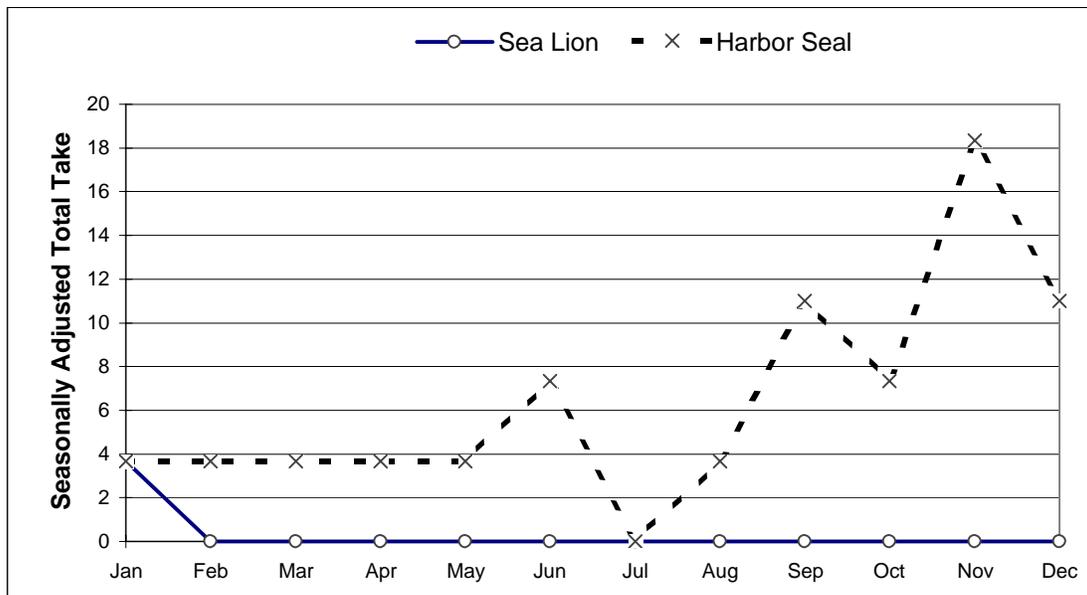
SOURCE: ANHSC Household Surveys, (Numbers based on 2005 harvest estimates).

Table 35. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Lions, 2006

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%	18	85.7%	66.0	85.7%
Adult Female	0	0.0%	0.0	0.0%	3	14.3%	11.0	14.3%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	1	100.0%	3.7	100.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	1	100.0%	3.7	100.0%	21	100.0%	77.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	1.1	2.2	3.3	1992	36.9	2.2	39.1
1993	4.0	1.0	5.0	1993	26.0	1.0	27.0
1994	0.0	0.0	0.0	1994	8.0	0.0	8.0
1995	0.0	0.0	0.0	1995	2.0	0.0	2.0
1996	0.0	0.0	0.0	1996	4.0	0.0	4.0
1997	1.0	0.0	1.0	1997	5.0	0.0	5.0
1998	1.0	0.0	1.0	1998	6.0	0.0	6.0
2000	0.0	0.0	0.0	2000	6.4	0.0	6.4
2001	0.0	0.0	0.0	2001	8.8	1.1	9.9
2002	0.0	0.0	0.0	2002	13.0	0.0	13.0
2003	0.0	0.0	0.0	2003	12.9	0.0	12.9
2004	1.2	0.0	1.2	2004	20.6	0.0	20.6
2005	3.7	0.0	3.7	2005	77.0	0.0	77.0
2006	3.7	0.0	3.7	2006	77.0	0.0	77.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; ANHSC Household Surveys, 2000-2006 (Numbers based on 2005 harvest estimates).

Table 36. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Chignik Bay, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	23
Surveyed Households	16
Sampling Fraction	69.6%
Sample Household Members	39
Estimated Household Members	56.1
2000 U.S. Census Estimated Native Population	48

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	18.8%
Hunted	0.0%	12.5%
Harvested	0.0%	12.5%
Received	0.0%	12.5%
Gave Away	0.0%	6.3%

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

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	4.3
Total Number Struck and Lost	0.0	1.4
Total Number Taken	0.0	5.8
Number Harvested Per Capita	0.00	0.09

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	1	1	1	0	3
Struck & Lost	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Total Take	0	0	0	0	0	0	0	0	0	1	2	1	0	4
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	0.0	4.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	1.4
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.9	1.4	0.0	5.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	0.0	4.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	1.4
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.9	1.4	0.0	5.8
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	50.0%	25.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.3	5.8	0.0	5.8
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	75.0%	100.0%	0.0%	100.0%

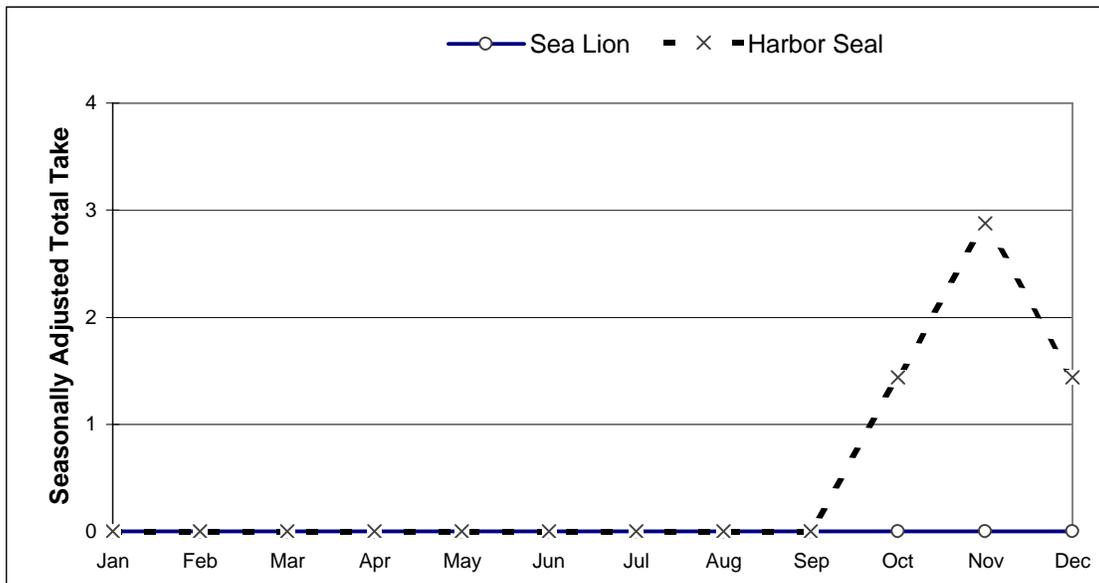
SOURCE: BBNA Household Surveys, 2007.

Table 36. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chignik Bay, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	3	100.0%	4.3	100.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	3	100.0%	4.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	2.4	1.2	3.6
1993	0.0	0.0	0.0	1993	6.3	5.0	11.3
1994	0.0	0.0	0.0	1994	3.4	0.0	3.4
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0
1996	0.0	0.0	0.0	1996	1.0	0.0	1.0
1997	0.0	0.0	0.0	1997	0.0	0.0	0.0
1998	0.0	0.0	0.0	1998	0.0	0.0	0.0
2000	0.0	0.0	0.0	2000	0.0	0.0	0.0
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0
2002	0.0	0.0	0.0	2002	1.3	0.0	1.3
2003	0.0	0.0	0.0	2003	2.8	0.0	2.8
2004	0.0	0.0	0.0	2004	0.0	0.0	0.0
2005	0.0	0.0	0.0	2005	0.0	0.0	0.0
2006	0.0	0.0	0.0	2006	4.3	1.4	5.8

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2000-2007.

Table 37. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: Chignik Lagoon, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	19
Surveyed Households	16
Sampling Fraction	84.2%
Sample Household Members	46
Estimated Household Members	54.6
2000 U.S. Census Estimated Native Population	85

HARVEST AND USE INFORMATION

Percentage of Native Households:

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

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

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

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

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

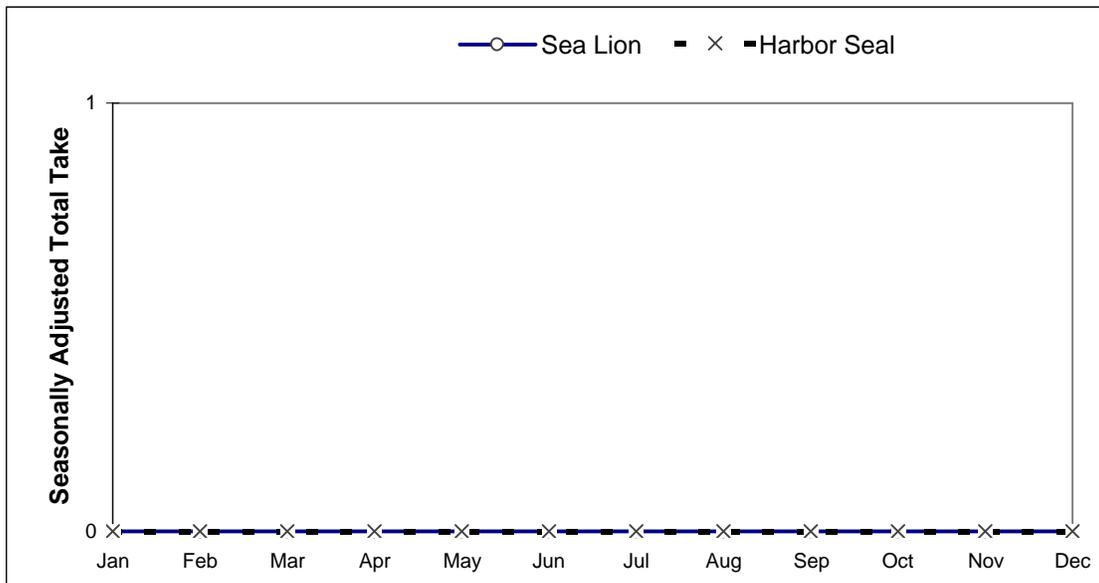
SOURCE: BBNA Household Surveys, 2007.

Table 37. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chignik Lagoon, 2006

HARVEST BY AGE AND SEX

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

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	4.0	0.0	4.0
1993	1.1	0.0	1.1	1993	4.3	1.1	5.3
1994	0.0	0.0	0.0	1994	0.0	1.0	1.0
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0
1996	0.0	0.0	0.0	1996	0.0	0.0	0.0
1997	0.0	0.0	0.0	1997	1.3	1.3	2.7
1998	0.0	0.0	0.0	1998	0.0	0.0	0.0
2000	0.0	0.0	0.0	2000	1.2	0.0	1.2
2001	0.0	0.0	0.0	2001	1.1	0.0	1.1
2002	0.0	0.0	0.0	2002	0.0	0.0	0.0
2003	0.0	0.0	0.0	2003	0.0	0.0	0.0
2004	0.0	0.0	0.0	2004	1.1	0.0	1.1
2005	0.0	0.0	0.0	2005	0.0	0.0	0.0
2006	0.0	0.0	0.0	2006	0.0	0.0	0.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2000-2007.

Table 38. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: Chignik Lake, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	25
Surveyed Households	17
Sampling Fraction	68.0%
Sample Household Members	58
Estimated Household Members	85.3
2000 U.S. Census Estimated Native Population	127

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	58.8%
Hunted	0.0%	17.6%
Harvested	0.0%	0.0%
Received	0.0%	58.8%
Gave Away	0.0%	23.5%

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

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	0.0
Total Number Struck and Lost	0.0	2.9
Total Number Taken	0.0	2.9
Number Harvested Per Capita	0.00	0.00

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	1	0	1	0	2
Total Take	0	0	0	0	0	0	0	0	0	1	0	1	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.5	0.0	2.9
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.5	0.0	2.9
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	1.5	0.0	1.5	0.0	2.9
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.5	0.0	2.9
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	50.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	2.9	0.0	2.9
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	100.0%	0.0%	100.0%

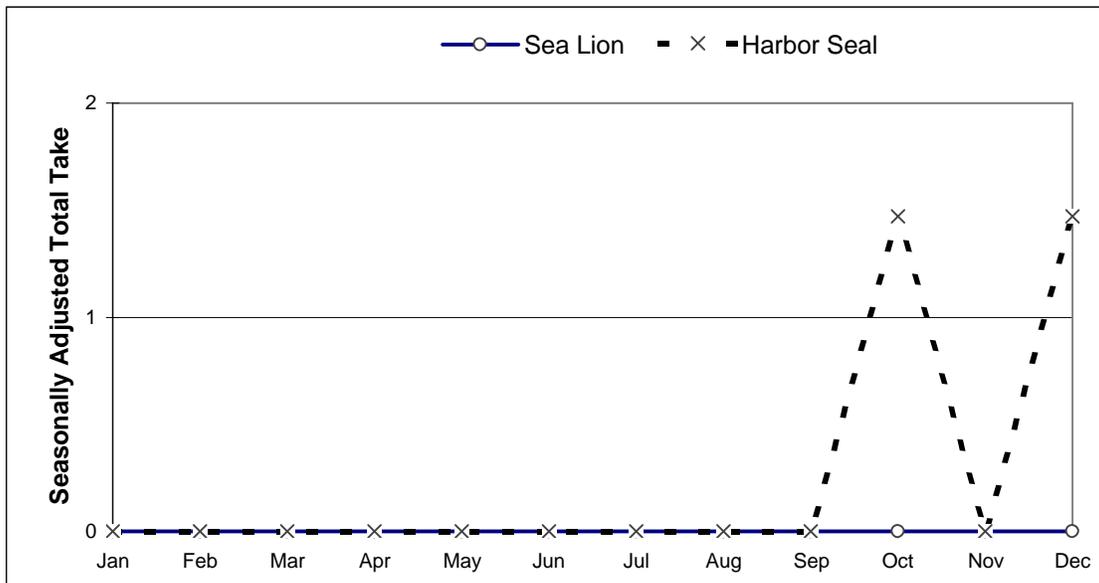
SOURCE: BBNA Household Surveys, 2007.

Table 38. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Chignik Lake, 2006

HARVEST BY AGE AND SEX

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

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	8.3	2.1	10.3
1993	0.0	0.0	0.0	1993	15.2	5.5	20.8
1994	0.0	0.0	0.0	1994	20.8	1.3	22.1
1995	0.0	0.0	0.0	1995	3.2	1.1	4.3
1996	0.0	0.0	0.0	1996	3.5	0.0	3.5
1997	0.0	0.0	0.0	1997	2.2	1.1	3.3
1998	0.0	0.0	0.0	1998	1.9	0.0	1.9
2000	0.0	0.0	0.0	2000	3.3	0.0	3.3
2001	0.0	0.0	0.0	2001	1.3	1.3	2.6
2002	0.0	0.0	0.0	2002	2.9	0.0	2.9
2003	0.0	0.0	0.0	2003	8.9	3.0	11.8
2004	0.0	0.0	0.0	2004	6.7	3.3	10.0
2005	0.0	0.0	0.0	2005	3.6	1.2	4.8
2006	0.0	0.0	0.0	2006	0.0	2.9	2.9

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2000-2007.

Table 39. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: False Pass, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	13
Surveyed Households	13
Sampling Fraction	100.0%
Sample Household Members	0
Estimated Household Members	0.0
2000 U.S. Census Estimated Native Population	42

HARVEST AND USE INFORMATION

Percentage of Native Households:

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

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

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

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 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 (%)	---	---	---	---	---	---	---	---	---	---	---	---		---

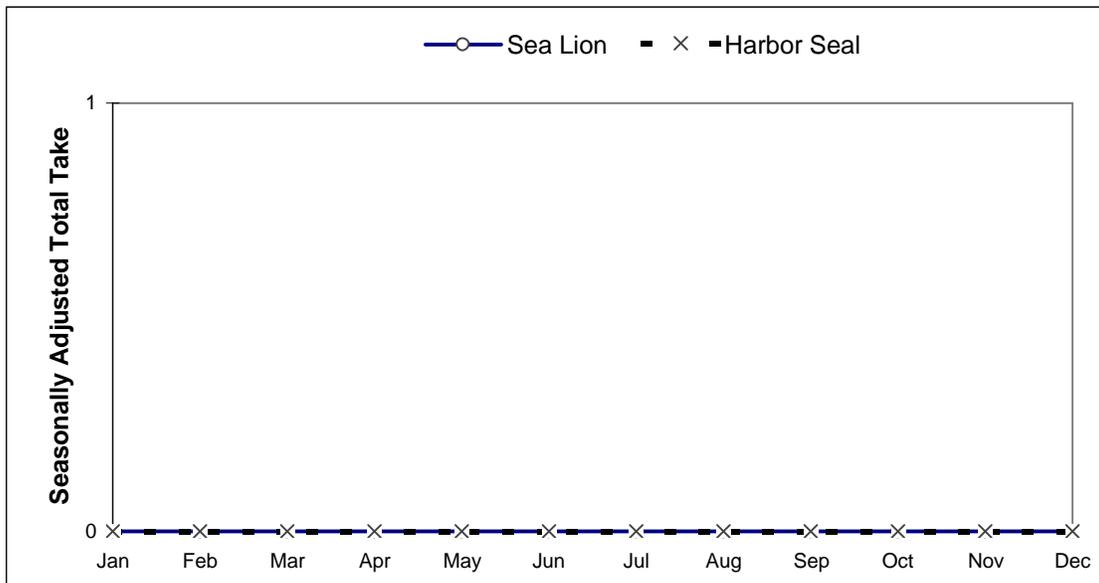
SOURCE: AMMC Household Surveys, 2007.

Table 39. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: False Pass, 2006

HARVEST BY AGE AND SEX

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

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	18.0	0.0	18.0
1993	0.0	0.0	0.0	1993	19.0	0.0	19.0
1994	0.0	0.0	0.0	1994	12.6	2.1	14.7
1995	0.0	0.0	0.0	1995	25.9	1.2	27.1
1996	0.0	0.0	0.0	1996	13.9	0.0	13.9
1997	0.0	0.0	0.0	1997	8.0	0.0	8.0
1998	0.0	0.0	0.0	1998	17.8	1.3	19.1
2000	0.0	0.0	0.0	2000	2.5	1.2	3.7
2001	0.0	0.0	0.0	2001	2.5	1.2	3.7
2002	0.0	0.0	0.0	2002	2.5	0.0	2.5
2003	0.0	0.0	0.0	2003	2.8	0.0	2.8
2004	0.0	0.0	0.0	2004	2.8	0.0	2.8
2005	0.0	0.0	0.0	2005	5.7	0.0	5.7
2006	0.0	0.0	0.0	2006	0.0	0.0	0.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2000-2007.

Table 40. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Ivanof Bay, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	2
Surveyed Households	2
Sampling Fraction	100.0%
Sample Household Members	4
Estimated Household Members	4.0
2000 U.S. Census Estimated Native Population	21

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea	Harbor
	<u>Lion</u>	<u>Seal</u>
Used	0.0%	100.0%
Hunted	0.0%	100.0%
Harvested	0.0%	100.0%
Received	0.0%	0.0%
Gave Away	0.0%	100.0%

*Estimated Community Harvest
and Take (Expanded):*

	Sea	Harbor
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	0.0	3.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	3.0
Number Harvested Per Capita	0.00	0.14

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	0	0	0	0	1	1	1	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	0	1	1	1	0	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	3.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	3.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	3.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	3.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	33.3%	33.3%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	3.0	3.0	3.0	3.0	3.0
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	66.7%	100.0%	100.0%	100.0%	100.0%	100.0%

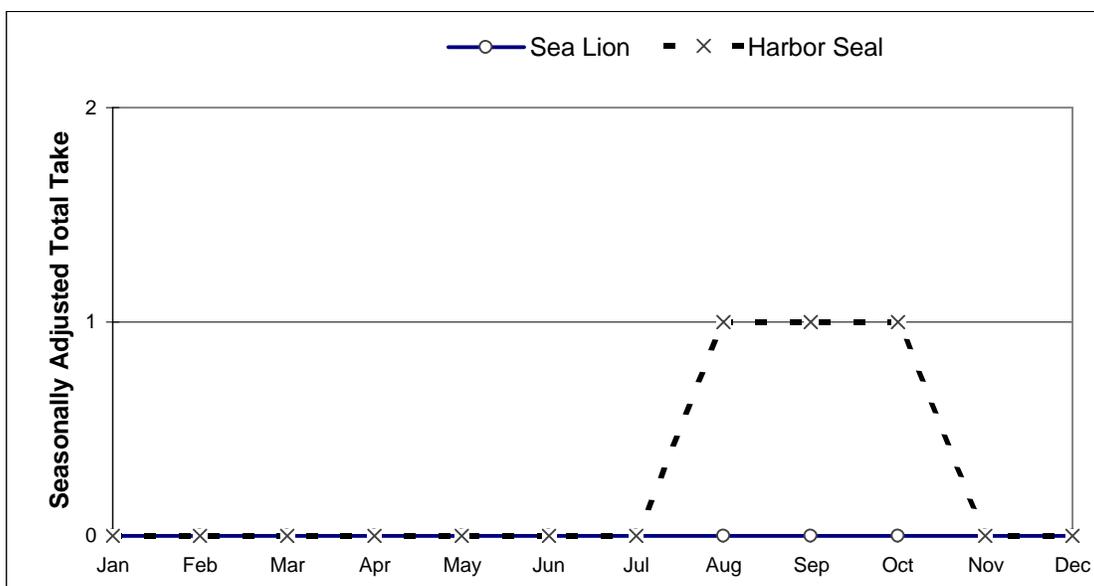
SOURCE: BBNA Household Surveys, 2007.

Table 40. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Ivanof Bay, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	2	66.7%	2.0	66.7%
Juvenile Male	0	---	0.0	---	1	33.3%	1.0	33.3%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	3	100.0%	3.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

Year	SEA LION			HARBOR SEAL		
	Harvest	Struck/Lost	Total Take	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	0.0	0.0	0.0
1993	0.0	0.0	0.0	0.0	0.0	0.0
1994	0.0	0.0	0.0	0.0	0.0	0.0
1995	0.0	0.0	0.0	18.7	2.7	21.3
1996	2.4	0.0	2.4	13.2	0.0	13.2
1997	1.8	0.0	1.8	9.0	1.8	10.8
1998	1.8	0.0	1.8	9.0	1.8	10.8
2000	0.0	0.0	0.0	3.2	0.0	3.2
2001	1.4	1.4	2.8	7.0	1.4	8.4
2002	1.4	1.4	2.8	7.0	1.4	8.4
2003*	0.0	0.0	0.0	0.0	0.0	0.0
2004*	0.0	0.0	0.0	0.0	0.0	0.0
2005*	0.0	0.0	0.0	0.0	0.0	0.0
2006	0.0	0.0	0.0	3.0	0.0	3.0

*From 2003-2005 there were no year round residents in Ivanof Bay.

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

BBNA Household Surveys, 2000-2007.

Table 41. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: King Cove, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	14
	Surveyed Households	13
	Sampling Fraction	92.9%
	Sample Household Members	42
	Estimated Household Members	45.2
	2000 U.S. Census Estimated Native Population	379

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	84.6%	100.0%	Total Number Harvested	11.8	14.0
Hunted	84.6%	100.0%	Total Number Struck and Lost	1.1	0.0
Harvested	84.6%	100.0%	Total Number Taken	12.9	14.0
Received	84.6%	100.0%			
Gave Away	84.6%	100.0%	Number Harvested Per Capita	0.03	0.04

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	8	3	0	0	0	0	0	0	0	11
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Total Take	0	0	0	0	8	3	0	0	0	0	0	0	1	12
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	8.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8
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	1.1	1.1
Total Take	0.0	0.0	0.0	0.0	8.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	12.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	8.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0		11.8
Struck & Lost	0.0	0.0	0.0	0.0	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0		1.1
Total Take	0.0	0.0	0.0	0.0	9.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0		12.9
Total Take (%)	0.0%	0.0%	0.0%	0.0%	72.7%	27.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	0.0	9.4	12.9	12.9	12.9	12.9	12.9	12.9	12.9		
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	72.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	6	7	0	0	0	0	0	0	0	0	13
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	6	7	0	0	0	0	0	0	0	0	13
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	6.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	6.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	6.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0		14.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	6.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0		14.0
Total Take (%)	0.0%	0.0%	0.0%	46.2%	53.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	6.5	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0		
Cum. Take (%)	0.0%	0.0%	0.0%	46.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

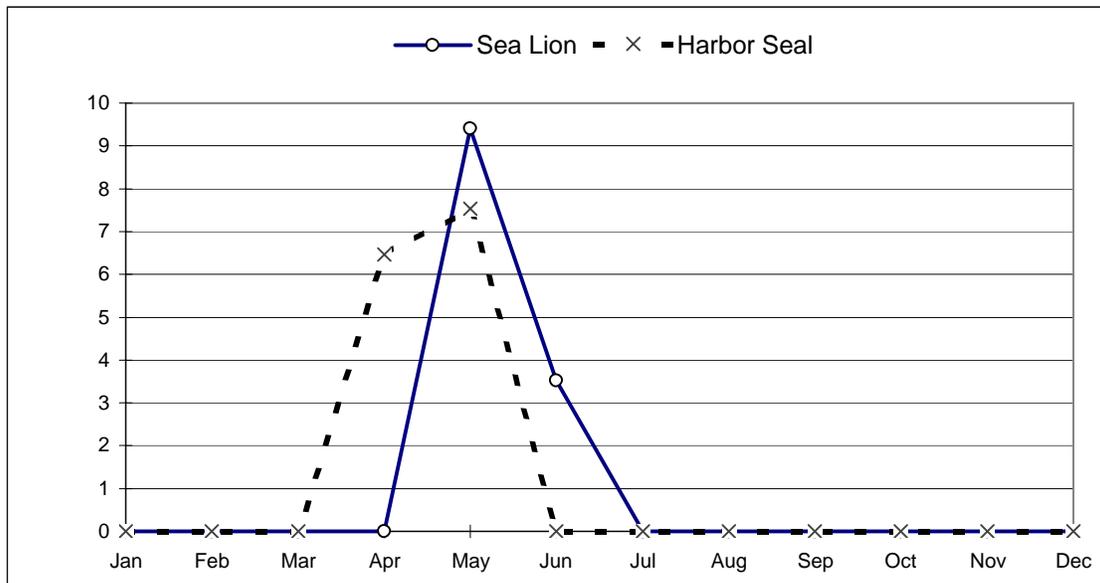
SOURCE: AMMC Household Surveys, 2007.

Table 41. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: King Cove, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	7	63.6%	7.5	63.6%	5	38.5%	5.4	38.5%
Adult Female	4	36.4%	4.3	36.4%	8	61.5%	8.6	61.5%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	11	100.0%	11.8	100.0%	13	100.0%	14.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	1.3	0.0	1.3	1992	26.0	6.7	32.7
1993	1.2	0.0	1.2	1993	12.8	3.5	16.3
1994	3.2	1.1	4.3	1994	20.9	1.1	22.0
1995	5.0	0.0	5.0	1995	49.0	3.0	52.0
1996	0.0	0.0	0.0	1996	14.0	5.0	19.0
1997	4.2	0.0	4.2	1997	16.9	2.1	19.1
1998	4.3	0.0	4.3	1998	18.2	0.0	18.2
2000	4.3	0.0	4.3	2000	19.3	2.1	21.4
2001	3.0	0.0	3.0	2001	22.0	4.0	26.0
2002	0.0	1.5	1.5	2002	7.5	3.0	10.5
2003	0.0	0.0	0.0	2003	11.0	4.4	15.4
2004	1.7	0.0	1.7	2004	32.3	0.0	32.3
2005	3.2	0.0	3.2	2005	21.5	0.0	21.5
2006	11.8	1.1	12.9	2006	14.0	0.0	14.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2000-2007.

Table 42. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Perryville, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	31
Surveyed Households	26
Sampling Fraction	83.9%
Sample Household Members	95
Estimated Household Members	113.3
2000 U.S. Census Estimated Native Population	105

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	69.2%
Hunted	3.8%	46.2%
Harvested	0.0%	42.3%
Received	0.0%	53.8%
Gave Away	0.0%	53.8%

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

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	27.4
Total Number Struck and Lost	0.0	14.3
Total Number Taken	0.0	41.7
Number Harvested Per Capita	0.00	0.26

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	2	0	1	0	0	0	1	3	6	7	1	0	23
Struck & Lost	0	0	0	0	1	0	0	1	2	2	3	2	1	12
Total Take	2	2	0	1	1	0	0	2	5	8	10	3	1	35
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.4	2.4	0.0	1.2	0.0	0.0	0.0	1.2	3.6	7.2	8.3	1.2	0.0	27.4
Struck & Lost	0.0	0.0	0.0	0.0	1.2	0.0	0.0	1.2	2.4	2.4	3.6	2.4	1.2	14.3
Total Take	2.4	2.4	0.0	1.2	1.2	0.0	0.0	2.4	6.0	9.5	11.9	3.6	1.2	41.7
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	2.4	2.4	0.0	1.2	0.0	0.0	0.0	1.2	3.6	7.2	8.3	1.2	0.0	27.4
Struck & Lost	0.0	0.0	0.0	0.0	1.3	0.0	0.0	1.3	2.6	2.6	3.9	2.6	0.0	14.3
Total Take	2.4	2.4	0.0	1.2	1.3	0.0	0.0	2.5	6.2	9.8	12.2	3.8	0.0	41.7
Total Take (%)	5.7%	5.7%	0.0%	2.9%	3.1%	0.0%	0.0%	6.0%	14.8%	23.4%	29.4%	9.1%	0.0%	100.0%
Cum. Take	2.4	4.8	4.8	6.0	7.3	7.3	7.3	9.8	15.9	25.7	37.9	41.7	0.0	41.7
Cum. Take (%)	5.7%	11.4%	11.4%	14.3%	17.4%	17.4%	17.4%	23.4%	38.2%	61.6%	90.9%	100.0%	0.0%	100.0%

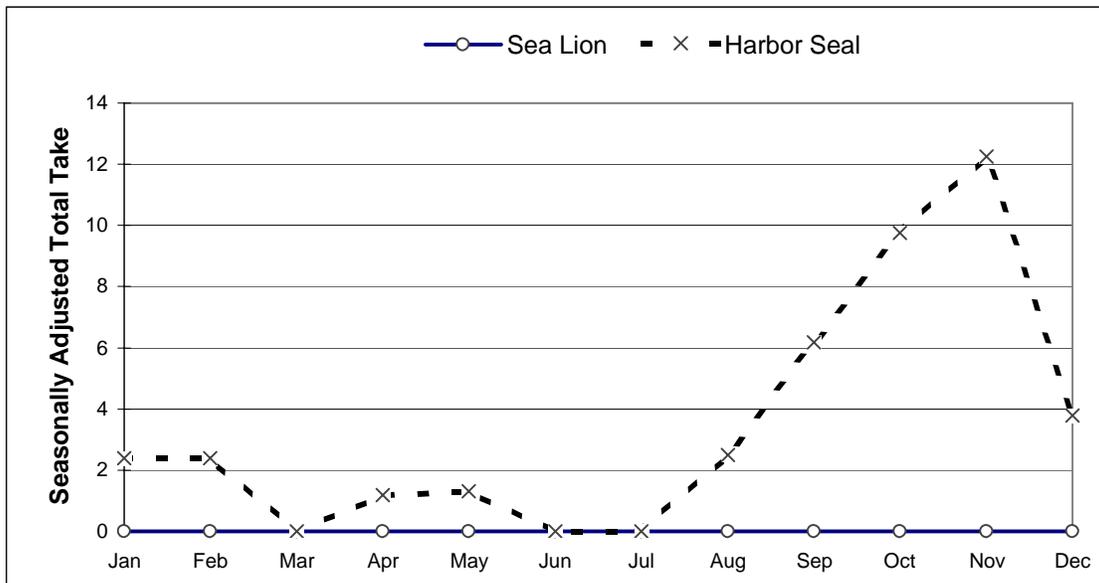
SOURCE: BBNA Household Surveys, 2007.

Table 42. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Perryville, 2006

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	21.7%	6.0	21.7%
Adult Female	0	---	0.0	---	2	8.7%	2.4	8.7%
Adult Unknown Sex	0	---	0.0	---	1	4.3%	1.2	4.3%
Juvenile Male	0	---	0.0	---	6	26.1%	7.2	26.1%
Juvenile Female	0	---	0.0	---	5	21.7%	6.0	21.7%
Juvenile Unknown Sex	0	---	0.0	---	1	4.3%	1.2	4.3%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	3	13.0%	3.6	13.0%
Total	0	---	0.0	---	23	100.0%	27.4	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	1.1	0.0	1.1	1992	8.9	2.2	11.1
1993	0.0	0.0	0.0	1993	12.8	2.1	15.0
1994	1.4	0.0	1.4	1994	21.1	0.0	21.1
1995	3.1	0.0	3.1	1995	11.0	3.1	14.1
1996	1.3	1.3	2.6	1996	20.5	0.0	20.5
1997	2.3	0.0	2.3	1997	21.7	5.7	27.4
1998	1.1	0.0	1.1	1998	21.0	4.4	25.4
2000	4.5	0.0	4.5	2000	21.0	15.0	36.0
2001	1.1	0.0	1.1	2001	24.0	6.9	30.9
2002	2.5	1.3	3.8	2002	33.8	15.0	48.8
2003	1.2	2.4	3.7	2003	51.3	6.1	57.4
2004	2.2	0.0	2.2	2004	20.0	5.6	25.6
2005	1.0	0.0	1.0	2005	21.0	6.0	27.0
2006	0.0	0.0	0.0	2006	27.4	14.3	41.7

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2000-2007.

Table 43. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Sand Point, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	15
	Surveyed Households	8
	Sampling Fraction	53.3%
	Sample Household Members	10
	Estimated Household Members	18.8
	2000 U.S. Census Estimated Native Population	421

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	12.5%	25.0%	Total Number Harvested	5.6	3.8
Hunted	12.5%	25.0%	Total Number Struck and Lost	0.0	1.9
Harvested	12.5%	12.5%	Total Number Taken	5.6	5.6
Received	0.0%	12.5%			
Gave Away	0.0%	25.0%	Number Harvested Per Capita	0.01	0.01

SEA LION HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	1	0	0	0	1	0	0	0	0	0	0	0	3
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	1	1	0	0	0	1	0	0	0	0	0	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.9	1.9	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	1.9	1.9	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.9	1.9	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	1.9	1.9	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
Total Take (%)	33.3%	33.3%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	1.9	3.8	3.8	3.8	3.8	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	
Cum. Take (%)	33.3%	66.7%	66.7%	66.7%	66.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	1	0	1	0	0	0	0	0	2
Struck & Lost	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Total Take	0	0	0	0	0	2	0	1	0	0	0	0	0	3
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.9	0.0	1.9	0.0	0.0	0.0	0.0	0.0	3.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
Total Take	0.0	0.0	0.0	0.0	0.0	3.8	0.0	1.9	0.0	0.0	0.0	0.0	0.0	5.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.9	0.0	1.9	0.0	0.0	0.0	0.0	0.0	3.8
Struck & Lost	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
Total Take	0.0	0.0	0.0	0.0	0.0	3.8	0.0	1.9	0.0	0.0	0.0	0.0	0.0	5.6
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	0.0	3.8	3.8	5.6	5.6	5.6	5.6	5.6	5.6	
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%	66.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

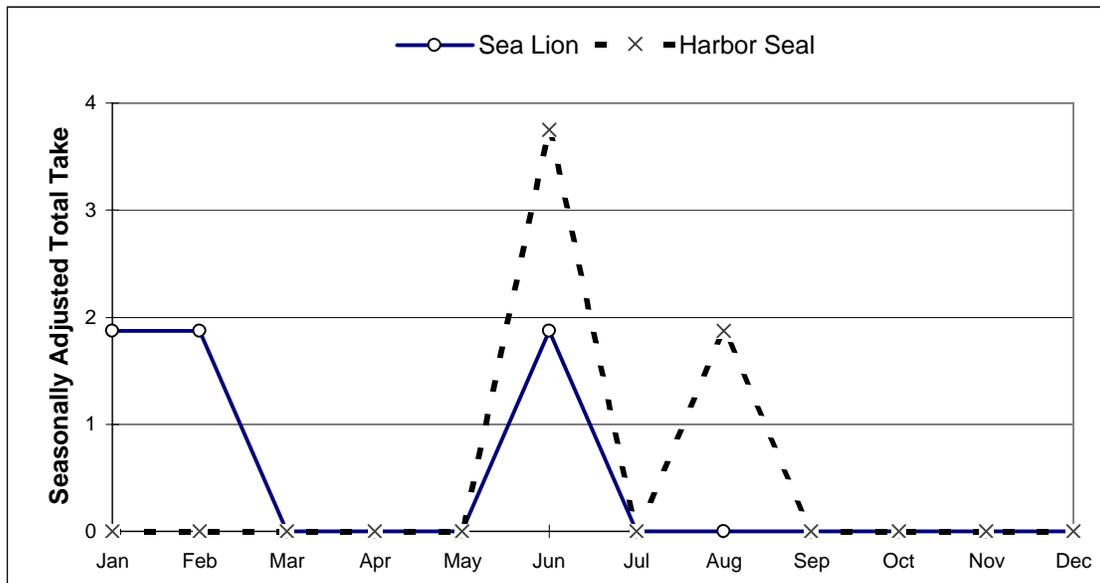
SOURCE: AMMC Household Surveys, 2007.

Table 43. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Sand Point, 2006

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	100.0%	3.8	100.0%
Adult Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	2	66.7%	3.8	66.7%	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	33.3%	1.9	33.3%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	3	100.0%	5.6	100.0%	2	100.0%	3.8	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	37.9	0.0	37.9
1993	0.0	0.0	0.0	1993	13.3	1.2	14.4
1994	0.0	0.0	0.0	1994	7.8	4.3	12.1
1995	0.0	0.0	0.0	1995	9.2	0.0	9.2
1996	0.0	0.0	0.0	1996	20.2	0.0	20.2
1997	0.0	0.0	0.0	1997	9.1	0.0	9.1
1998	2.0	0.0	2.0	1998	12.0	0.0	12.0
2000	5.0	0.0	5.0	2000	15.0	0.0	15.0
2001	4.7	0.0	4.7	2001	10.9	1.6	12.4
2002	0.0	0.0	0.0	2002	15.0	0.0	15.0
2003	1.3	0.0	1.3	2003	14.3	0.0	14.3
2004	0.0	0.0	0.0	2004	15.0	1.3	16.3
2005	0.0	0.0	0.0	2005	15.0	1.3	16.3
2006	5.6	0.0	5.6	2006	3.8	1.9	5.6

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2000-2007.

Table 44. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Adak, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	3
	Surveyed Households	3
	Sampling Fraction	100.0%
	Sample Household Members	0
	Estimated Household Members	0.0
	2000 U.S. Census Estimated Native Population	118

HARVEST AND USE INFORMATION

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

SEA LION HARVEST BY MONTH													Unknown	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	0	0	0	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 (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

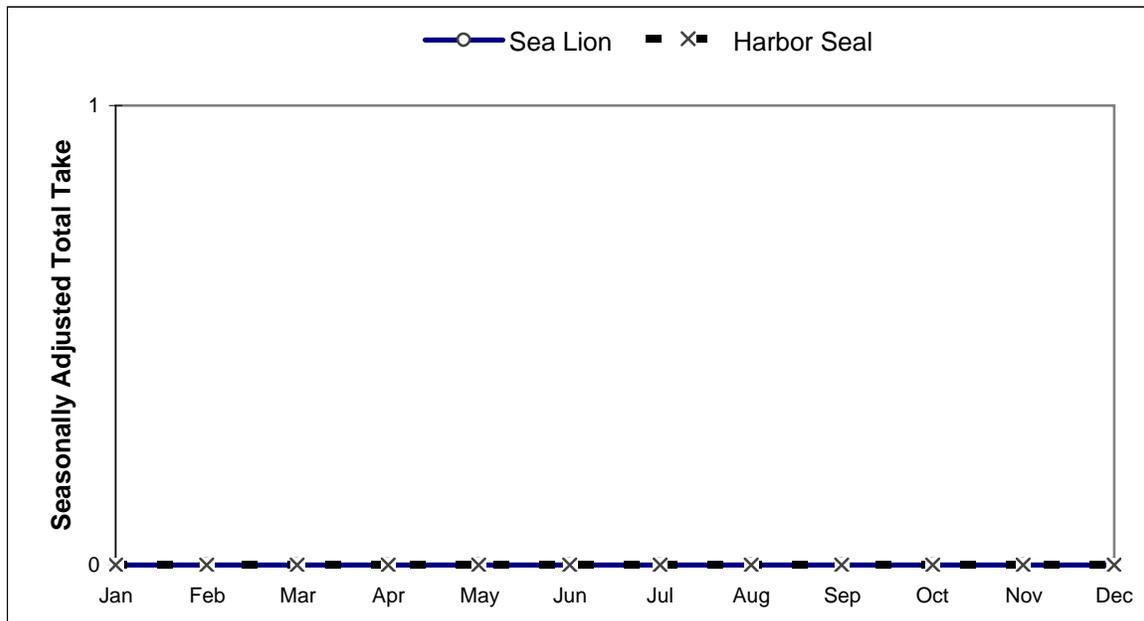
SOURCE: AMMC Household Surveys, 2007.

Table 44. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Adak, 2006

HARVEST BY AGE AND SEX

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

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	---	---	---	1992	---	---	---
1993	---	---	---	1993	---	---	---
1994	---	---	---	1994	---	---	---
1995	---	---	---	1995	---	---	---
1996	---	---	---	1996	---	---	---
1997	---	---	---	1997	---	---	---
1998	---	---	---	1998	---	---	---
2000	---	---	---	2000	---	---	---
2001	---	---	---	2001	---	---	---
2002	---	---	---	2002	---	---	---
2003	1.0	0.0	1.0	2003	4.0	1.0	5.0
2004	2.0	1.0	3.0	2004	0.0	0.0	0.0
2005	4.0	0.0	4.0	2005	12.0	0.0	12.0
2006	0.0	0.0	0.0	2006	0.0	0.0	0.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2007.

Table 45. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Akutan, 2006

SAMPLING DESIGN:

CENSUS	Total Native Households	29
	Surveyed Households	24
	Sampling Fraction	82.8%
	Sample Household Members	52
	Estimated Household Members	62.8
	2000 U.S. Census Estimated Native Population	117

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	54.2%	25.0%	Total Number Harvested	2.4	2.4
Hunted	12.5%	4.2%	Total Number Struck and Lost	0.0	0.0
Harvested	8.3%	4.2%	Total Number Taken	2.4	2.4
Received	50.0%	20.8%			
Gave Away	12.5%	4.2%	Number Harvested Per Capita	0.02	0.02

SEA LION HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	1	1	0	0	0	0	0	0	2
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	1	1	0	0	0	0	0	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	2.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	2.4
Total Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	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	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	1	0	0	0	0	0	0	0	1	0	2
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	1	0	0	0	0	0	0	0	1	0	2
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.4
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	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.4
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.4
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	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	2.4
Total Take (%)	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	
Cum. Take (%)	0.0%	0.0%	0.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	100.0%	100.0%	

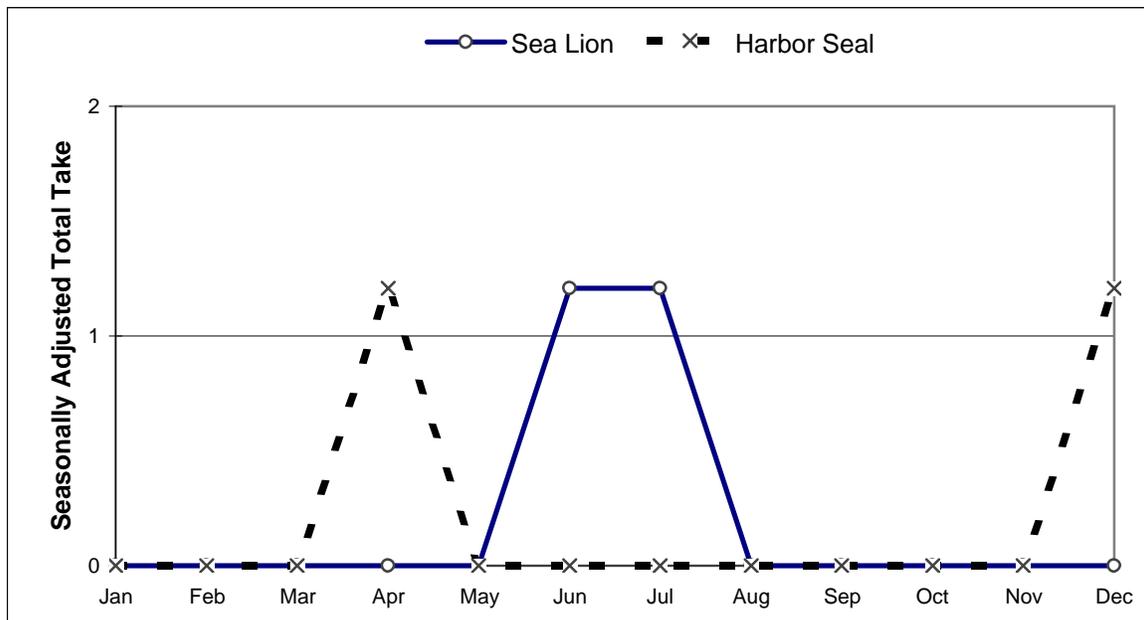
SOURCE: AMMC Household Surveys, 2007.

Table 45. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Akutan, 2006

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	50.0%	1.2	50.0%	2	100.0%	2.4	100.0%
Adult Female	1	50.0%	1.2	50.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Male	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	2	100.0%	2.4	100.0%	2	100.0%	2.4	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2007.

Table 46. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Atka, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	24
Surveyed Households	12
Sampling Fraction	50.0%
Sample Household Members	26
Estimated Household Members	52.0
2000 U.S. Census Estimated Native Population	84

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea	Harbor
	<u>Lion</u>	<u>Seal</u>
Used	100.0%	83.3%
Hunted	41.7%	50.0%
Harvested	41.7%	41.7%
Received	91.7%	83.3%
Gave Away	66.7%	58.3%

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

	Sea	Harbor
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	52.0	26.0
Total Number Struck and Lost	14.0	4.0
Total Number Taken	66.0	30.0
Number Harvested Per Capita	0.62	0.31

SEA LION HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	3	4	3	1	1	1	0	1	0	3	4	2	3	26
Struck & Lost	0	1	0	0	0	0	0	0	0	1	2	1	2	7
Total Take	3	5	3	1	1	1	0	1	0	4	6	3	5	33
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.0	8.0	6.0	2.0	2.0	2.0	0.0	2.0	0.0	6.0	8.0	4.0	6.0	52.0
Struck & Lost	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.0	2.0	4.0	14.0
Total Take	6.0	10.0	6.0	2.0	2.0	2.0	0.0	2.0	0.0	8.0	12.0	6.0	10.0	66.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	6.8	9.0	6.8	2.3	2.3	2.3	0.0	2.3	0.0	6.8	9.0	4.5		52.0
Struck & Lost	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6	2.8		14.0
Total Take	6.8	11.8	6.8	2.3	2.3	2.3	0.0	2.3	0.0	9.6	14.6	7.3		66.0
Total Take (%)	10.3%	17.9%	10.3%	3.4%	3.4%	3.4%	0.0%	3.4%	0.0%	14.5%	22.2%	11.1%		100.0%
Cum. Take	6.8	18.6	25.4	27.7	29.9	32.2	32.2	34.5	34.5	44.0	58.7	66.0		
Cum. Take (%)	10.3%	28.2%	38.5%	41.9%	45.3%	48.8%	48.8%	52.2%	52.2%	66.7%	88.9%	100.0%		

HARBOR SEAL HARVEST BY MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	2	1	0	0	0	0	0	0	0	2	0	8	13
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Total Take	0	2	1	0	0	0	0	0	0	0	2	1	9	15
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	16.0	26.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	4.0
Total Take	0.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.0	18.0	30.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	0.0		26.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0		4.0
Total Take	0.0	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	4.0		30.0
Total Take (%)	0.0%	34.7%	17.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	34.7%	13.3%		100.0%
Cum. Take	0.0	10.4	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	26.0	30.0		
Cum. Take (%)	0.0%	34.7%	52.0%	52.0%	52.0%	52.0%	52.0%	52.0%	52.0%	52.0%	86.7%	100.0%		

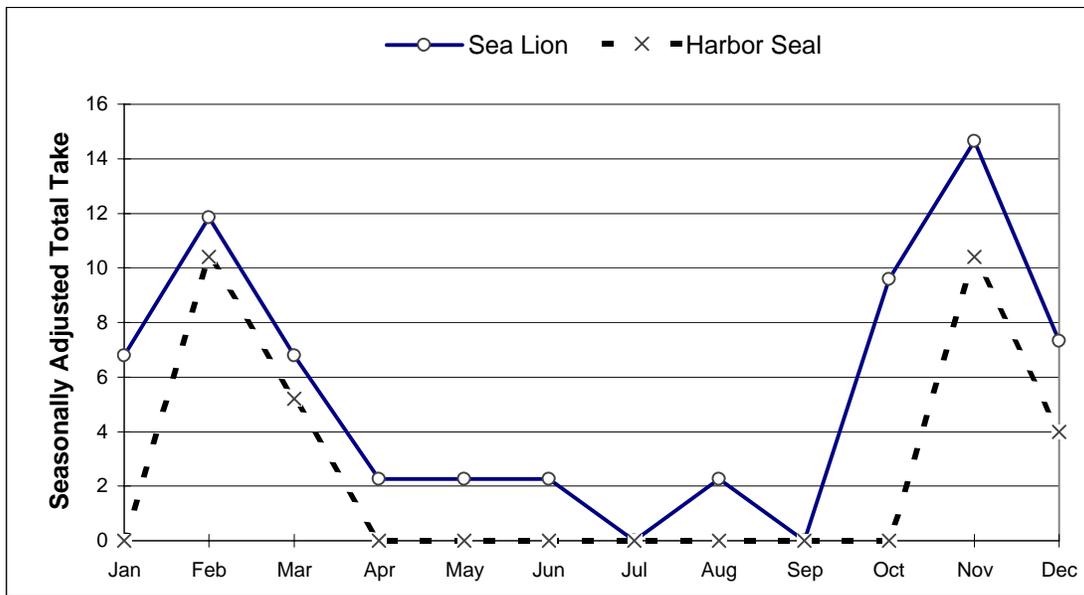
SOURCE: AMMC Household Surveys, 2007.

Table 46. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Atka, 2006

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	16	61.5%	32.0	61.5%	11	84.6%	22.0	84.6%
Adult Female	1	3.8%	2.0	3.8%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	2	7.7%	4.0	7.7%	1	7.7%	2.0	7.7%
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	7	26.9%	14.0	26.9%	1	7.7%	2.0	7.7%
Total	26	100.0%	52.0	100.0%	13	100.0%	26.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	28.6	9.9	38.5	1992	28.6	9.9	38.5
1993	25.1	0.0	25.1	1993	32.7	0.0	32.7
1994	45.5	8.7	54.2	1994	73.7	8.7	82.3
1995	40.0	0.0	40.0	1995	42.5	0.0	42.5
1996	17.3	0.0	17.3	1996	22.7	2.2	24.8
1997	12.2	0.0	12.2	1997	26.0	1.5	27.5
1998	16.8	0.0	16.8	1998	16.8	0.0	16.8
2000	16.8	0.0	16.8	2000	16.8	0.0	16.8
2001	33.3	11.7	45.0	2002	63.3	6.7	70.0
2002	73.5	12.0	85.5	2001	36.0	0.0	36.0
2003	68.8	12.8	81.6	2003	57.6	1.6	59.2
2004	50.7	12.7	63.3	2004	73.9	16.9	90.8
2005	54.9	6.1	61.0	2005	47.2	9.1	56.4
2006	52.0	14.0	66.0	2006	26.0	4.0	30.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2007.

Table 47. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Nikolski, 2006

**SAMPLING DESIGN:
CHAIN REFERRAL**

Total Native Households	5
Surveyed Households	5
Sampling Fraction	100.0%
Sample Household Members	15
Estimated Household Members	15.0
2000 U.S. Census Estimated Native Population	27

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%	100.0%	Total Number Harvested	0.0	17.0
Hunted	0.0%	100.0%	Total Number Struck and Lost	0.0	1.0
Harvested	0.0%	100.0%	Total Number Taken	0.0	18.0
Received	0.0%	80.0%			
Gave Away	0.0%	100.0%	Number Harvested Per Capita	0.00	0.63

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

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	1	4	0	0	0	1	7	0	1	0	2	0	17
Struck & Lost	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Total Take	1	1	4	0	0	0	1	8	0	1	0	2	0	18
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	1.0	4.0	0.0	0.0	0.0	1.0	7.0	0.0	1.0	0.0	2.0	0.0	17.0
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	1.0	1.0	4.0	0.0	0.0	0.0	1.0	8.0	0.0	1.0	0.0	2.0	0.0	18.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	1.0	4.0	0.0	0.0	0.0	1.0	7.0	0.0	1.0	0.0	2.0		17.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0		1.0
Total Take	1.0	1.0	4.0	0.0	0.0	0.0	1.0	8.0	0.0	1.0	0.0	2.0		18.0
Total Take (%)	5.6%	5.6%	22.2%	0.0%	0.0%	0.0%	5.6%	44.4%	0.0%	5.6%	0.0%	11.1%		100.0%
Cum. Take	1.0	2.0	6.0	6.0	6.0	6.0	7.0	15.0	15.0	16.0	16.0	18.0		
Cum. Take (%)	5.6%	11.1%	33.3%	33.3%	33.3%	33.3%	38.9%	83.3%	83.3%	88.9%	88.9%	100.0%		

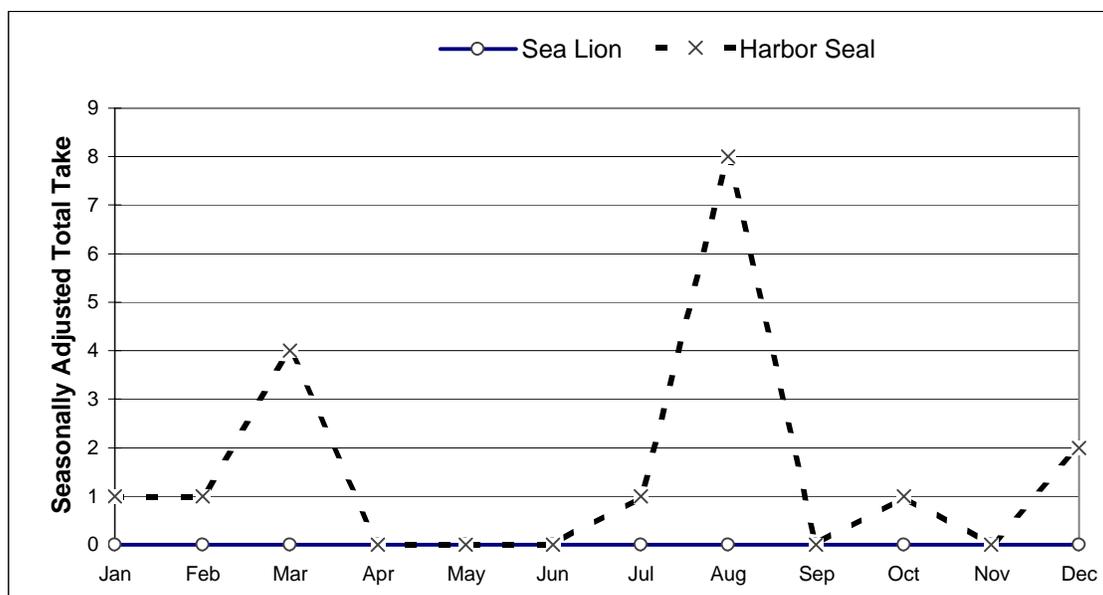
SOURCE: AMMC Household Surveys, 2007.

Table 47. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Nikolski, 2006

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	64.7%	11.0	64.7%
Adult Female	0	---	0.0	---	1	5.9%	1.0	5.9%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	1	5.9%	1.0	5.9%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	4	23.5%	4.0	23.5%
Total	0	---	0.0	---	17	100.0%	17.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	8.2	0.0	8.2	1992	5.8	3.5	9.3
1993	6.0	0.0	6.0	1993	4.0	1.0	5.0
1994	0.0	0.0	0.0	1994	6.0	0.0	6.0
1995	---	---	---	1995	---	---	---
1996	3.0	0.0	3.0	1996	4.0	1.0	5.0
1997	3.0	0.0	3.0	1997	4.0	1.0	5.0
1998	1.1	0.0	1.1	1998	2.2	0.0	2.2
2000	1.1	0.0	1.1	2000	2.2	0.0	2.2
2001	6.7	0.0	6.7	2001	5.3	0.0	5.3
2002	1.0	0.0	1.0	2002	3.0	1.0	4.0
2003	0.0	0.0	0.0	2003	11.0	3.0	14.0
2004	2.0	0.0	2.0	2004	6.0	1.0	7.0
2005	2.0	0.0	2.0	2005	6.0	1.0	7.0
2006	0.0	0.0	0.0	2006	17.0	1.0	18.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2007.

Table 48. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Unalaska, 2006

**SAMPLING DESIGN:
CHAIN REFERRAL**

Total Referred Households	18
Surveyed Households	10
Sampling Fraction	55.6%
Sample Household Members	30
Estimated Household Members	54.0
2000 U.S. Census Estimated Native Population	397

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea	Harbor
	<u>Lion</u>	<u>Seal</u>
Used	20.0%	20.0%
Hunted	20.0%	20.0%
Harvested	20.0%	20.0%
Received	20.0%	10.0%
Gave Away	20.0%	20.0%

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

	Sea	Harbor
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	9.0	9.0
Total Number Struck and Lost	5.4	3.6
Total Number Taken	14.4	12.6
Number Harvested Per Capita	0.02	0.02

SEA LION HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	2	2	0	0	0	1	5	
Struck & Lost	0	1	0	0	0	1	0	0	0	0	1	0	3	
Total Take	0	1	0	0	0	1	2	2	0	0	1	1	8	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6	0.0	0.0	0.0	1.8	9.0	
Struck & Lost	0.0	1.8	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	1.8	0.0	5.4	
Total Take	0.0	1.8	0.0	0.0	0.0	1.8	3.6	3.6	0.0	0.0	1.8	1.8	14.4	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	0.0	0.0	0.0	0.0	9.0	
Struck & Lost	0.0	1.8	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	1.8	0.0	5.4	
Total Take	0.0	1.8	0.0	0.0	0.0	1.8	4.5	4.5	0.0	0.0	1.8	0.0	14.4	
Total Take (%)	0.0%	12.5%	0.0%	0.0%	0.0%	12.5%	31.3%	31.3%	0.0%	0.0%	12.5%	0.0%	100.0%	
Cum. Take	0.0	1.8	1.8	1.8	1.8	3.6	8.1	12.6	12.6	12.6	14.4	14.4	14.4	
Cum. Take (%)	0.0%	12.5%	12.5%	12.5%	12.5%	25.0%	56.3%	87.5%	87.5%	87.5%	100.0%	100.0%	100.0%	

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	2	1	0	0	0	0	1	1	0	0	0	0	5	
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	2	2	
Total Take	2	1	0	0	0	0	1	1	0	0	0	2	7	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.6	1.8	0.0	0.0	0.0	0.0	1.8	1.8	0.0	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	0.0	0.0	3.6	3.6	
Total Take	3.6	1.8	0.0	0.0	0.0	0.0	1.8	1.8	0.0	0.0	0.0	3.6	12.6	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	3.6	1.8	0.0	0.0	0.0	0.0	1.8	1.8	0.0	0.0	0.0	0.0	9.0	
Struck & Lost	1.4	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	3.6	
Total Take	5.0	2.5	0.0	0.0	0.0	0.0	2.5	2.5	0.0	0.0	0.0	0.0	12.6	
Total Take (%)	40.0%	20.0%	0.0%	0.0%	0.0%	0.0%	20.0%	20.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
Cum. Take	5.0	7.6	7.6	7.6	7.6	7.6	10.1	12.6	12.6	12.6	12.6	12.6	12.6	
Cum. Take (%)	40.0%	60.0%	60.0%	60.0%	60.0%	60.0%	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

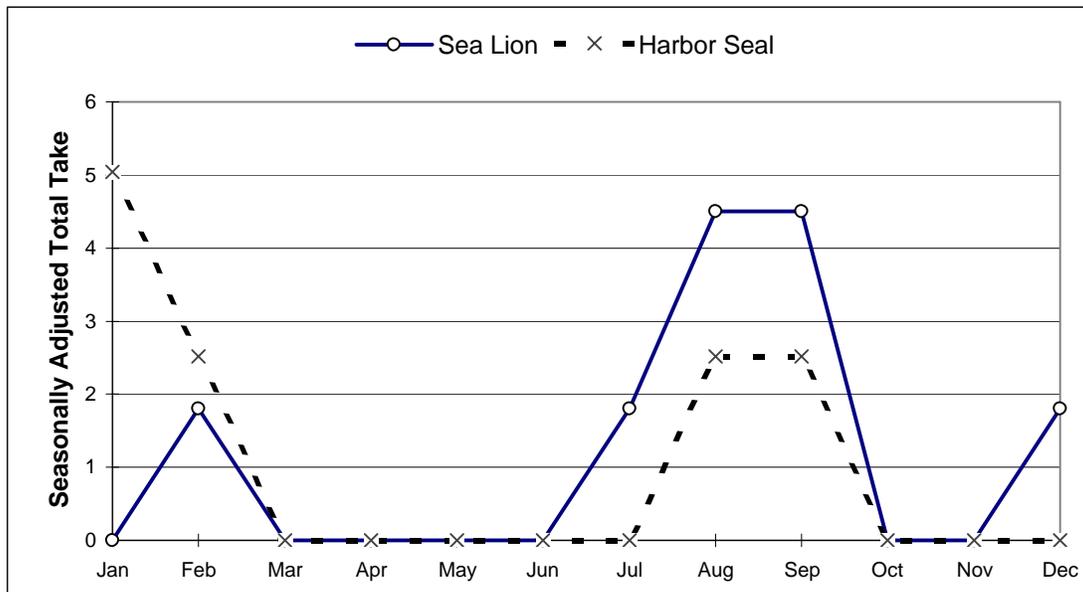
SOURCE: AMMC Household Surveys, 2007.

Table 48. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Unalaska, 2006

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	20.0%	1.8	20.0%
Adult Female	2	40.0%	3.6	40.0%	1	20.0%	1.8	20.0%
Adult Unknown Sex	2	40.0%	3.6	40.0%	1	20.0%	1.8	20.0%
Juvenile Male	0	0.0%	0.0	0.0%	1	20.0%	1.8	20.0%
Juvenile Female	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	1	20.0%	1.8	20.0%	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%	0	0.0%	0.0	0.0%
Male Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	5	100.0%	9.0	100.0%	5	100.0%	9.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

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

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; AMMC Household Surveys, 2007.

Table 49. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: St. George, 2006

SAMPLING DESIGN:

CHAIN REFERRAL	Total Referred Households	7
	Surveyed Households	3
	Sampling Fraction	42.9%
	Sample Household Members	9
	Estimated Household Members	21.0
	2000 U.S. Census Estimated Native Population	140

HARVEST AND USE INFORMATION

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	100.0%	0.0%	Total Number Harvested	9.3	0.0
Hunted	100.0%	0.0%	Total Number Struck and Lost	4.7	0.0
Harvested	100.0%	0.0%	Total Number Taken	14.0	0.0
Received	66.7%	0.0%			
Gave Away	100.0%	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	0	0	3	0	0	0	0	0	1	0	0	0	0	4
Struck & Lost	0	0	1	0	0	0	0	0	0	1	0	0	0	2
Total Take	0	0	4	0	0	0	0	0	1	1	0	0	0	6
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	9.3
Struck & Lost	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	4.7
Total Take	0.0	0.0	9.3	0.0	0.0	0.0	0.0	0.0	2.3	2.3	0.0	0.0	0.0	14.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0		9.3
Struck & Lost	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0		4.7
Total Take	0.0	0.0	9.3	0.0	0.0	0.0	0.0	0.0	2.3	2.3	0.0	0.0		14.0
Total Take (%)	0.0%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	16.7%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	9.3	9.3	9.3	9.3	9.3	9.3	11.7	14.0	14.0	14.0		
Cum. Take (%)	0.0%	0.0%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	83.3%	100.0%	100.0%	100.0%		

HARBOR SEAL HARVEST BY MONTH													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 (%)	---	---	---	---	---	---	---	---	---	---	---	---		

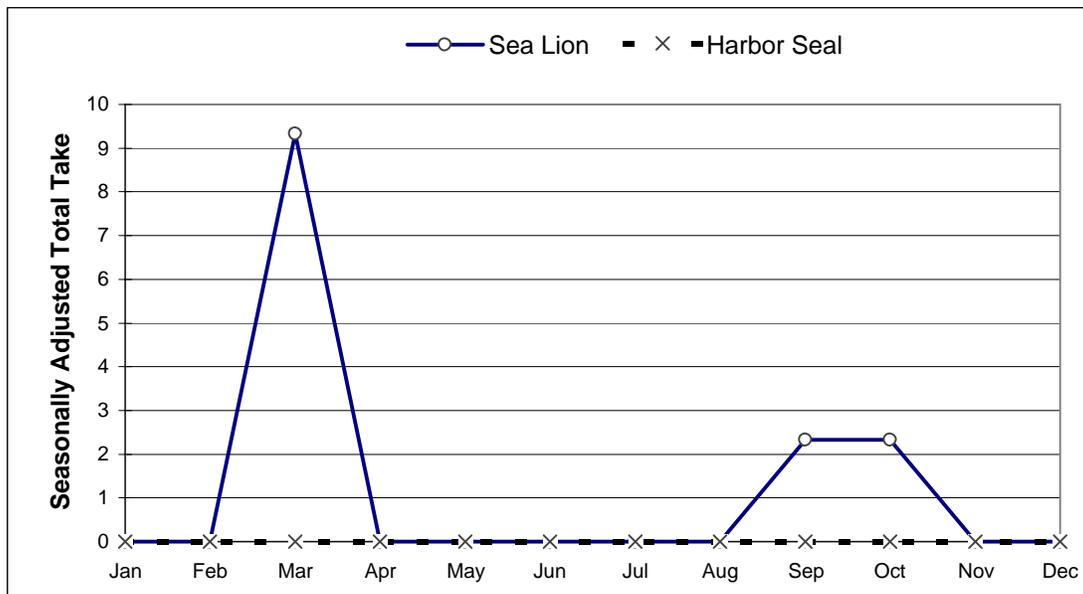
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, with assistance from the St. George Traditional IRA Council, City of St. George, and St. George Tanaq Corporation, 2003. (Numbers based on 2003 Survey Estimates)

Table 49. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: St. George, 2006

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	25.0%	2.3	25.0%	0	---	0.0	---
Adult Female	0	0.0%	0.0	0.0%	0	---	0.0	---
Adult Unknown Sex	0	0.0%	0.0	0.0%	0	---	0.0	---
Juvenile Male	3	75.0%	7.0	75.0%	0	---	0.0	---
Juvenile Female	0	0.0%	0.0	0.0%	0	---	0.0	---
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	0	---	0.0	---
Pup Male	0	0.0%	0.0	0.0%	0	---	0.0	---
Pup Female	0	0.0%	0.0	0.0%	0	---	0.0	---
Pup Unknown Sex	0	0.0%	0.0	0.0%	0	---	0.0	---
Male Unknown Age	0	0.0%	0.0	0.0%	0	---	0.0	---
Female Unknown Age	0	0.0%	0.0	0.0%	0	---	0.0	---
Unknown Sex and Age	0	0.0%	0.0	0.0%	0	---	0.0	---
Total	4	100.0%	9.3	100.0%	0	---	0.0	---

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	14.9	55.0	69.9	1992	0.0	0.0	0.0
1993	3.7	14.8	18.6	1993	0.0	0.0	0.0
1994	2.8	17.1	19.9	1994	0.0	0.0	0.0
1995	4.0	4.0	8.0	1995	0.0	0.0	0.0
1996	4.0	4.0	8.0	1996	0.0	0.0	0.0
1997	19.6	8.1	27.7	1997	0.0	0.0	0.0
1998	11.8	8.5	20.3	1998	0.0	0.0	0.0
2000	11.8	8.5	20.3	2000	0.0	0.0	0.0
2001	7.0	7.0	14.0	2001	0.0	1.0	1.0
2002	6.0	1.0	7.0	2002	0.0	0.0	0.0
2003	9.3	4.7	14.0	2003	0.0	0.0	0.0
2004	9.3	4.7	14.0	2004	0.0	0.0	0.0
2005	9.3	4.7	14.0	2005	0.0	0.0	0.0
2006	9.3	4.7	14.0	2006	0.0	0.0	0.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; St George Traditional IRA Council and St. George Tanaq Corporation 2000-2003 (Numbers based on 2003 survey estimates).

Table 50. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: St. Paul, 2006

SAMPLING DESIGN:

CENSUS	Total Native Households	N/A
	Surveyed Households	N/A
	Sampling Fraction	N/A
	Sample Household Members	N/A
	Estimated Household Members	N/A
	2000 U.S. Census Estimated Native Population	460

HARVEST AND USE INFORMATION

Percentage of Native Households:

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

Community Harvest and Take:

	Sea	Harbor
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	20.0	N/A
Total Number Struck and Lost	6.0	N/A
Total Number Taken	26.0	N/A
Number Harvested Per Capita	0.04	N/A

SEA LION HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
HARVEST AND TAKE BY COMMUNITY														
Harvest	4.0	6.0	4.0	0.0	0.0	1.0	0.0	0.0	2.0	1.0	2.0	0.0	0.0	20.0
Struck & Lost	0.0	3.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	6.0
Total Take	4.0	9.0	4.0	0.0	0.0	2.0	0.0	0.0	2.0	1.0	4.0	0.0	0.0	26.0
Total Take (%)	15.4%	34.6%	15.4%	0.0%	0.0%	7.7%	0.0%	0.0%	7.7%	3.8%	15.4%	0.0%		100.0%
Cum. Take	4.0	13.0	17.0	17.0	17.0	19.0	19.0	19.0	21.0	22.0	26.0	26.0		
Cum. Take (%)	15.4%	50.0%	65.4%	65.4%	65.4%	73.1%	73.1%	73.1%	80.8%	84.6%	100.0%	100.0%		
HARBOR SEAL HARVEST BY MONTH														
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown	Total	
HARVEST AND TAKE BY COMMUNITY														
Harvest	N/A	N/A	N/A	N/A										
Struck & Lost	N/A	N/A	N/A	N/A										
Total Take	N/A	N/A	N/A	N/A										
SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY														
Harvest	N/A	N/A	N/A	N/A										
Struck & Lost	N/A	N/A	N/A	N/A										
Total Take	N/A	N/A	N/A	N/A										
Total Take (%)														
Cum. Take														
Cum. Take (%)														

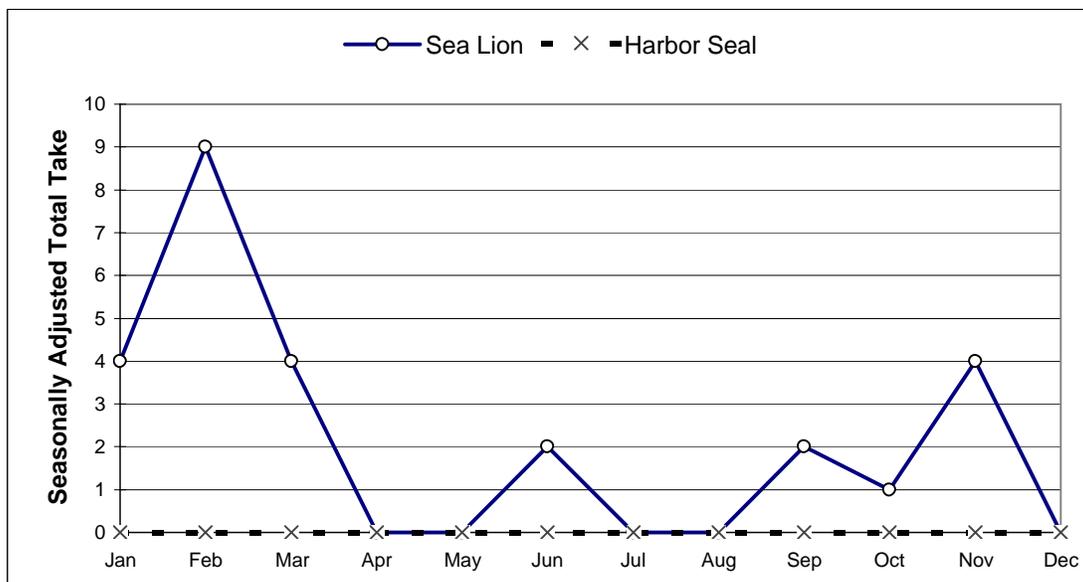
SOURCE: Lestenkof et al. 2007.

Table 50. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: St. Paul, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Total		Reported by Sample		Community Total	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	0.0%	0.0	0.0%	N/A		N/A	
Adult Female	0	0.0%	0.0	0.0%	N/A		N/A	
Adult Unknown Sex	0	0.0%	0.0	0.0%	N/A		N/A	
Juvenile Male	18	90.0%	18.0	90.0%	N/A		N/A	
Juvenile Female	2	10.0%	2.0	10.0%	N/A		N/A	
Juvenile Unknown Sex	0	0.0%	0.0	0.0%	N/A		N/A	
Pup Male	0	0.0%	0.0	0.0%	N/A		N/A	
Pup Female	0	0.0%	0.0	0.0%	N/A		N/A	
Pup Unknown Sex	0	0.0%	0.0	0.0%	N/A		N/A	
Male Unknown Age	0	0.0%	0.0	0.0%	N/A		N/A	
Female Unknown Age	0	0.0%	0.0	0.0%	N/A		N/A	
Unknown Sex and Age	0	0.0%	0.0	0.0%	N/A		N/A	
Total	20	100.0%	20.0	100.0%	N/A		N/A	

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	161.7	65.2	226.8	1992	2.3	1.2	3.5
1993	161.7	65.2	226.8	1993	2.3	1.2	3.5
1994	147.0	26.4	173.4	1994	7.3	0.0	7.3
1995	53.6	6.3	59.9	1995	2.5	0.0	2.5
1996	28.2	10.2	38.4	1996	0.0	0.0	0.0
1997	25.9	2.3	28.2	1997	0.0	0.0	0.0
1998	41.0	16.9	57.8	1998	4.6	0.0	4.6
2000	17.3	5.7	23.0	2000	N/A	N/A	N/A
2001	12.0	12.0	24.0	2001	N/A	N/A	N/A
2002	18.0	18.0	36.0	2002	N/A	N/A	N/A
2003	13.0	5.0	18.0	2003	N/A	N/A	N/A
2004	9.0	9.0	18.0	2004	N/A	N/A	N/A
2005	19.0	3.0	22.0	2005	N/A	N/A	N/A
2006	20.0	6.0	26.0	2006	N/A	N/A	N/A

SOURCE: 1992-1998 Alaska Department of Fish and Game, Division of Subsistence, Household Surveys; 2000-2004 Zavadil et al, 2006; 2005 Lestenkof and Zavadil, 2006; 2006 Lestenkof et al., 2007

Table 51. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Egegik, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	27
Surveyed Households	27
Sampling Fraction	100.0%
Sample Household Members	57
Estimated Household Members	57.0
2000 U.S. Census Estimated Native Population	89

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea	Harbor
	<u>Lion</u>	<u>Seal</u>
Used	0.0%	11.1%
Hunted	0.0%	3.7%
Harvested	0.0%	3.7%
Received	0.0%	7.4%
Gave Away	0.0%	0.0%

*Estimated Community Harvest
and Take (Expanded):*

	Sea	Harbor
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	0.0	3.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	3.0
Number Harvested Per Capita	0.00	0.03

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

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

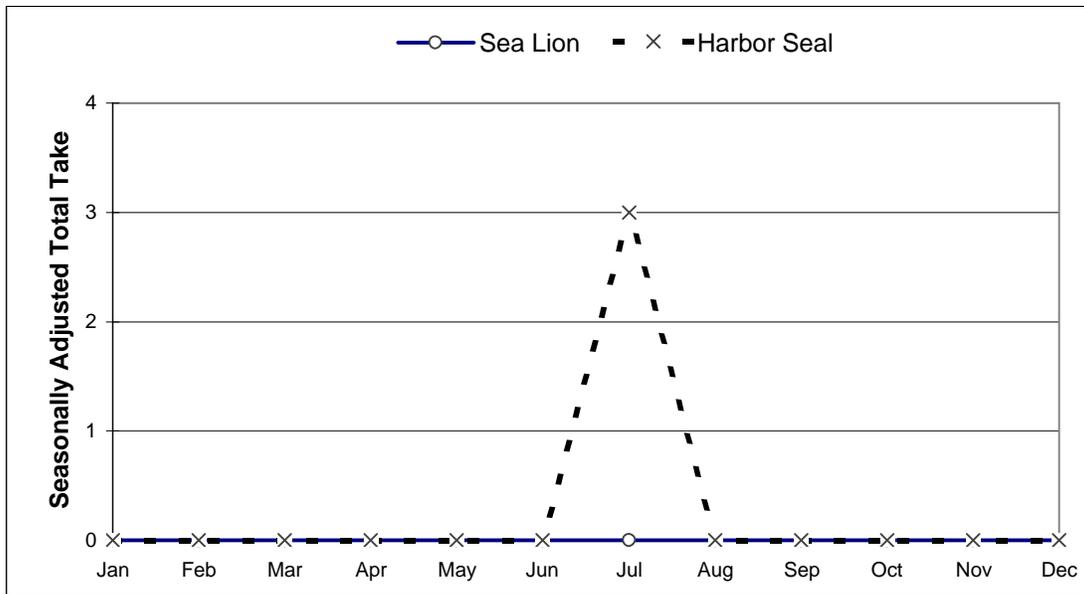
SOURCE: BBNA Household Surveys, 2007.

Table 51. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Egegik, 2006

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	66.7%	2.0	66.7%
Adult Female	0	---	0.0	---	1	33.3%	1.0	33.3%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	3	100.0%	3.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	3.3	14.3	17.7
1993	0.0	0.0	0.0	1993	7.7	3.3	11.0
1994	0.0	0.0	0.0	1994	12.8	0.0	12.8
1995	0.0	0.0	0.0	1995	1.4	0.0	1.4
1996	0.0	0.0	0.0	1996	2.8	0.0	2.8
1997	0.0	0.0	0.0	1997	1.6	0.0	1.6
1998	0.0	0.0	0.0	1998	0.0	0.0	0.0
2000	0.0	0.0	0.0	2000	4.0	3.0	7.0
2001	0.0	0.0	0.0	2001	6.3	1.0	7.3
2002	0.0	0.0	0.0	2002	2.2	1.1	3.2
2003	0.0	0.0	0.0	2003	4.0	1.0	5.0
2004	0.0	0.0	0.0	2004	15.4	4.4	19.8
2005	0.0	0.0	0.0	2005	1.1	2.1	3.2
2006	0.0	0.0	0.0	2006	3.0	0.0	3.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2007.

Table 52. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: King Salmon, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	21
Surveyed Households	15
Sampling Fraction	71.4%
Sample Household Members	52
Estimated Household Members	72.8
2000 U.S. Census Estimated Native Population	133

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea	Harbor
	<u>Lion</u>	<u>Seal</u>
Used	0.0%	33.3%
Hunted	0.0%	26.7%
Harvested	0.0%	20.0%
Received	0.0%	20.0%
Gave Away	0.0%	6.7%

*Estimated Community Harvest
and Take (Expanded):*

	Sea	Harbor
	<u>Lion</u>	<u>Seal</u>
Total Number Harvested	0.0	7.0
Total Number Struck and Lost	0.0	0.0
Total Number Taken	0.0	7.0
Number Harvested Per Capita	0.00	0.05

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

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	1	0	0	3	1	0	0	0	0	5
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	1	0	0	3	1	0	0	0	0	5
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.4	0.0	0.0	4.2	1.4	0.0	0.0	0.0	0.0	7.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	1.4	0.0	0.0	4.2	1.4	0.0	0.0	0.0	0.0	7.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	1.4	0.0	0.0	4.2	1.4	0.0	0.0	0.0	0.0	7.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	1.4	0.0	0.0	4.2	1.4	0.0	0.0	0.0	0.0	7.0
Total Take (%)	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	60.0%	20.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	1.4	1.4	1.4	5.6	7.0	7.0	7.0	7.0	7.0	7.0
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	20.0%	20.0%	20.0%	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

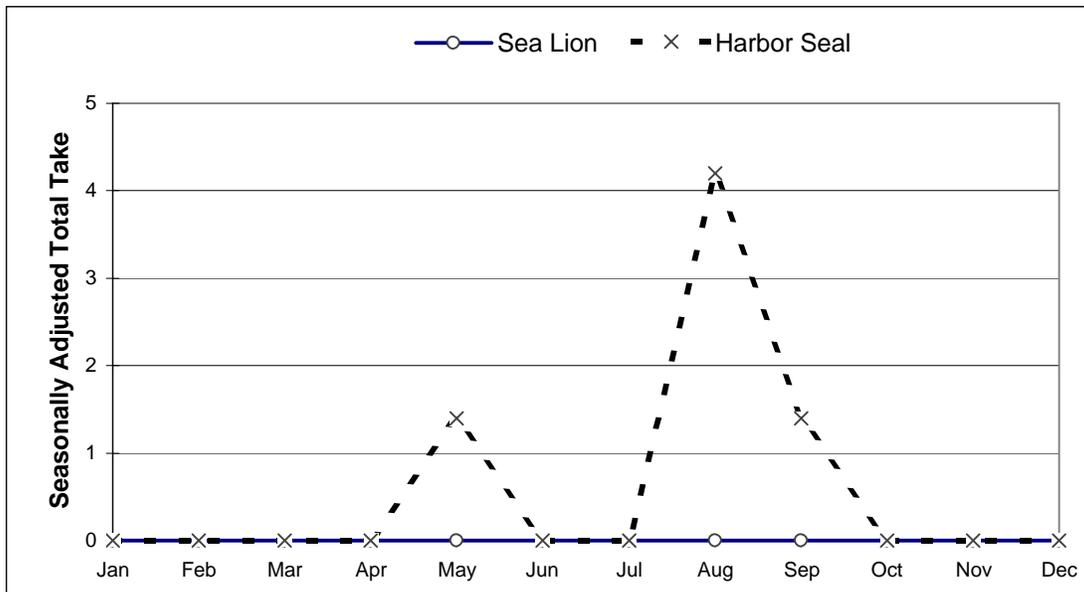
SOURCE: BBNA Household Surveys, 2007.

Table 52. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: King Salmon, 2006

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	20.0%	1.4	20.0%
Adult Female	0	---	0.0	---	1	20.0%	1.4	20.0%
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	---	3	60.0%	4.2	60.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	5	100.0%	7.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	10.2	0.0	10.2
1993	0.0	0.0	0.0	1993	21.3	10.7	32.0
1994	0.0	0.0	0.0	1994	17.0	4.5	21.5
1995	0.0	0.0	0.0	1995	13.0	3.0	16.0
1996	0.0	0.0	0.0	1996	9.5	2.4	11.9
1997	0.0	0.0	0.0	1997	9.7	0.0	9.7
1998	0.0	0.0	0.0	1998	5.2	0.0	5.2
2000	0.0	0.0	0.0	2000	3.3	9.8	13.0
2001	0.0	0.0	0.0	2001	8.5	6.1	14.6
2002	0.0	0.0	0.0	2002	2.9	0.0	2.9
2003	0.0	0.0	0.0	2003	7.3	6.1	13.4
2004	0.0	0.0	0.0	2004	5.0	3.3	8.3
2005	0.0	0.0	0.0	2005	0.0	0.0	0.0
2006	0.0	0.0	0.0	2006	7.0	0.0	7.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2007.

Table 53. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Levelock, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	19
Surveyed Households	6
Sampling Fraction	31.6%
Sample Household Members	18
Estimated Household Members	57.0
2000 U.S. Census Estimated Native Population	116

HARVEST AND USE INFORMATION

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		
	Sea	Harbor		Sea	Harbor
	<u>Lion</u>	<u>Seal</u>		<u>Lion</u>	<u>Seal</u>
Used	0.0%	66.7%	Total Number Harvested	0.0	0.0
Hunted	0.0%	16.7%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	0.0%	Total Number Taken	0.0	0.0
Received	0.0%	66.7%			
Gave Away	0.0%	33.3%	Number Harvested Per Capita	0.00	0.00

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

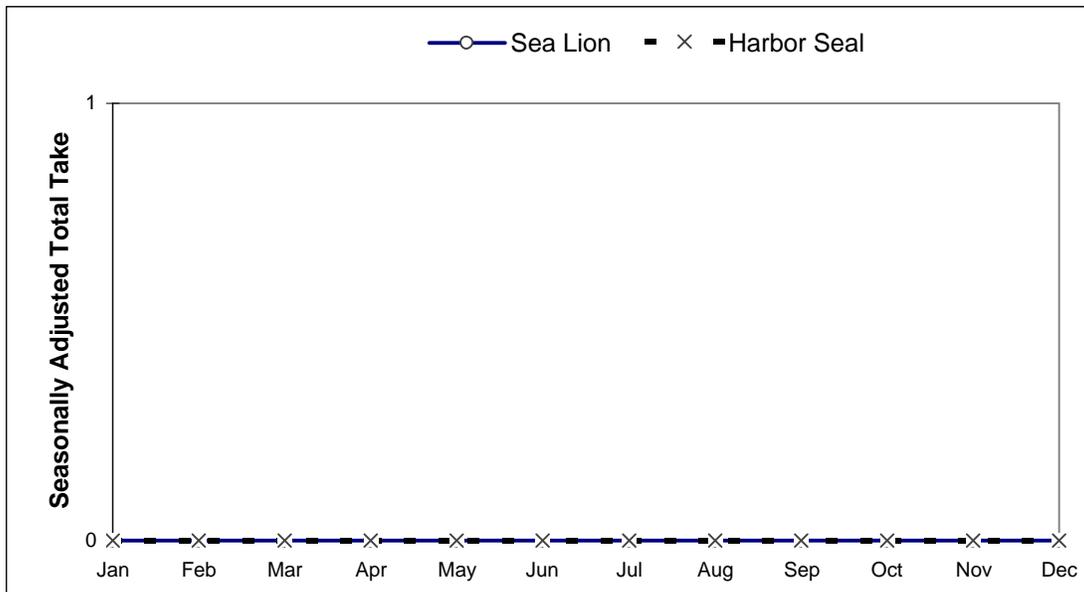
SOURCE: BBNA Household Surveys, 2007.

Table 53. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Levelock, 2006

HARVEST BY AGE AND SEX

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

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	10.8	0.0	10.8
1993	0.0	0.0	0.0	1993	2.7	5.4	8.1
1994	0.0	0.0	0.0	1994	0.0	0.0	0.0
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0
1996	0.0	0.0	0.0	1996	0.0	0.0	0.0
1997	0.0	0.0	0.0	1997	0.0	0.0	0.0
1998	0.0	0.0	0.0	1998	0.0	0.0	0.0
2000	0.0	0.0	0.0	2000	2.8	0.0	2.8
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0
2002	0.0	0.0	0.0	2002	0.0	0.0	0.0
2003	0.0	0.0	0.0	2003	0.0	0.0	0.0
2004	0.0	0.0	0.0	2004	0.0	0.0	0.0
2005	0.0	0.0	0.0	2005	2.7	0.0	2.7
2006	0.0	0.0	0.0	2006	0.0	0.0	0.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2007.

Table 54. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Naknek, 2006

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>	Total Referred Households	28	61	89
	Surveyed Households	26	20	46
	Sampling Fraction	92.9%	32.8%	51.7%
	Sample Household Members	57	67	124
	Estimated Household Members	61.4	204.4	265.7
	2000 U.S. Census Estimated Native Population	---	---	319

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%	26.8%	Total Number Harvested	0.0 15.1
Hunted	0.0%	10.7%	Total Number Struck and Lost	0.0 7.5
Harvested	0.0%	3.6%	Total Number Taken	0.0 22.6
Received	0.0%	23.2%		
Gave Away	0.0%	5.8%	Number Harvested Per Capita	0.00 0.05

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

HARBOR SEAL HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	8	0	0	2	4	0	0	0	0	14
Struck & Lost	0	0	0	0	0	2	0	3	2	0	0	0	0	7
Total Take	0	0	0	0	8	2	0	5	6	0	0	0	0	21
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	8.6	0.0	0.0	2.2	4.3	0.0	0.0	0.0	0.0	15.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	2.2	0.0	3.2	2.2	0.0	0.0	0.0	0.0	7.5
Total Take	0.0	0.0	0.0	0.0	8.6	2.2	0.0	5.4	6.5	0.0	0.0	0.0	0.0	22.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	8.6	0.0	0.0	2.2	4.3	0.0	0.0	0.0	0.0	15.1
Struck & Lost	0.0	0.0	0.0	0.0	0.0	2.2	0.0	3.2	2.2	0.0	0.0	0.0	0.0	7.5
Total Take	0.0	0.0	0.0	0.0	8.6	2.2	0.0	5.4	6.5	0.0	0.0	0.0	0.0	22.6
Total Take (%)	0.0%	0.0%	0.0%	0.0%	38.1%	9.5%	0.0%	23.8%	28.6%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	8.6	10.8	10.8	16.2	22.6	22.6	22.6	22.6	22.6	22.6
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	38.1%	47.6%	47.6%	71.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

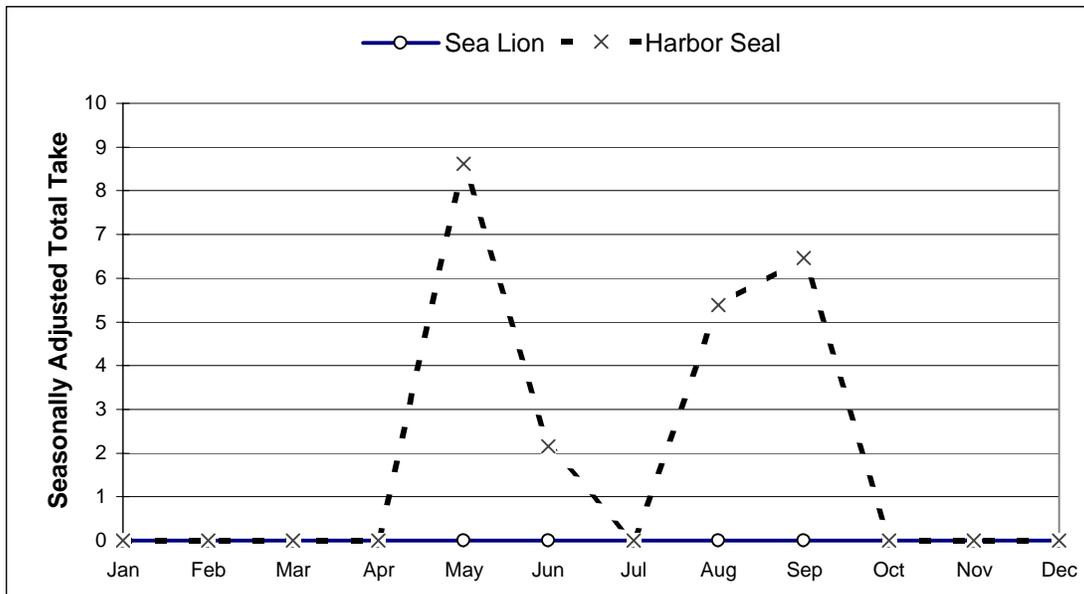
SOURCE: BBNA Household Surveys, 2007.

Table 54. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Naknek, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	9	64.3%	9.7	64.3%
Adult Female	0	---	0.0	---	5	35.7%	5.4	35.7%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	14	100.0%	15.1	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	26.6	7.0	33.6
1993	0.0	0.0	0.0	1993	2.7	0.0	2.7
1994	0.0	0.0	0.0	1994	21.4	8.3	29.7
1995	0.0	0.0	0.0	1995	34.8	15.3	50.2
1996	0.0	0.0	0.0	1996	16.2	7.5	23.7
1997	0.0	0.0	0.0	1997	24.8	6.5	31.2
1998	0.0	0.0	0.0	1998	15.7	7.8	23.5
2000	0.0	0.0	0.0	2000	16.3	0.0	16.3
2001	0.0	0.0	0.0	2001	15.1	4.3	19.4
2002	0.0	0.0	0.0	2002	26.2	12.5	38.7
2003	0.0	0.0	0.0	2003	10.5	0.0	10.5
2004	0.0	0.0	0.0	2004	15.2	3.8	19.0
2005	0.0	0.0	0.0	2005	6.2	0.0	6.2
2006	0.0	0.0	0.0	2006	15.1	7.5	22.6

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2007.

Table 55. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Pilot Point, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	15
Surveyed Households	5
Sampling Fraction	33.3%
Sample Household Members	12
Estimated Household Members	36.0
2000 U.S. Census Estimated Native Populator	86

HARVEST AND USE INFORMATION

Percentage of Native Households:			Estimated Community Harvest and Take (Expanded):		
	Sea <u>Lion</u>	Harbor <u>Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	60.0%	Total Number Harvested	0.0	3.0
Hunted	0.0%	20.0%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	20.0%	Total Number Taken	0.0	3.0
Received	0.0%	40.0%			
Gave Away	0.0%	20.0%	Number Harvested Per Capita	0.00	0.03

SEA LION HARVEST BY MONTH

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

HARBOR SEAL HARVEST BY MONTH

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

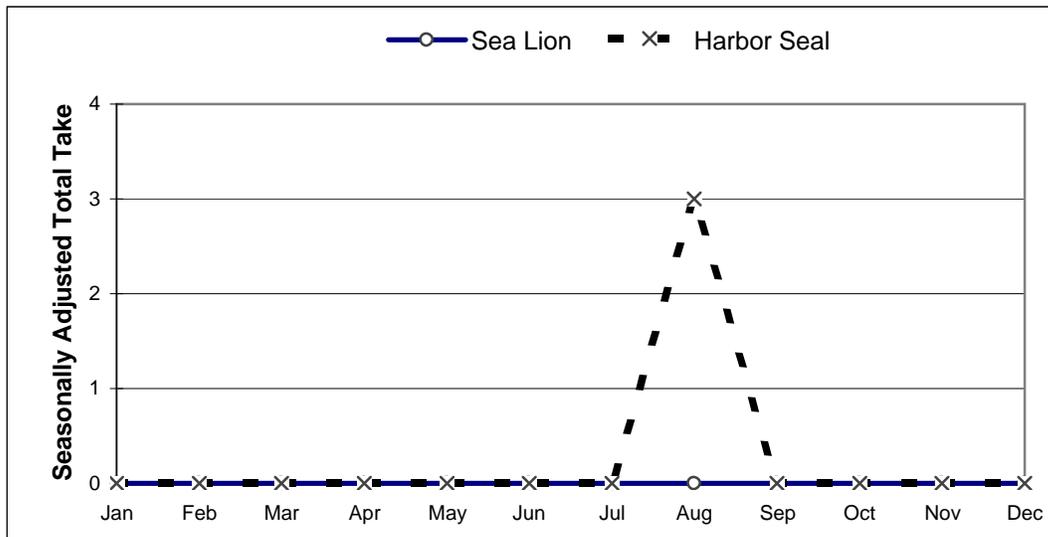
SOURCE: BBNA Household Surveys, 2007.

Table 55. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Pilot Point, 2006

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%	3.0	100.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	1	100.0%	3.0	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	5.4	4.3	9.7
1993	0.0	0.0	0.0	1993	2.2	0.0	2.2
1994	0.0	0.0	0.0	1994	3.1	0.0	3.1
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0
1996	0.0	0.0	0.0	1996	0.0	0.0	0.0
1997	0.0	0.0	0.0	1997	0.0	0.0	0.0
1998	0.0	0.0	0.0	1998	0.0	0.0	0.0
2000	0.0	0.0	0.0	2000	5.3	2.1	7.4
2001	0.0	0.0	0.0	2001	2.0	2.0	4.0
2002	0.0	0.0	0.0	2002	2.0	2.0	4.0
2003	0.0	0.0	0.0	2003	2.7	2.7	5.3
2004	0.0	0.0	0.0	2004	1.9	5.6	7.4
2005	0.0	0.0	0.0	2005	0.0	0.0	0.0
2006	0.0	0.0	0.0	2006	3.0	0.0	3.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2007.

Table 56. SEA LION AND HARBOR SEAL HARVEST AND TAKE ESTIMATES: Port Heiden, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	27
Surveyed Households	25
Sampling Fraction	92.6%
Sample Household Members	78
Estimated Household Members	84.2
2000 U.S. Census Estimated Native Population	93

HARVEST AND USE INFORMATION

Percentage of Native Households:

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Used	0.0%	48.0%
Hunted	0.0%	32.0%
Harvested	0.0%	32.0%
Received	0.0%	24.0%
Gave Away	0.0%	16.0%

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

	Sea <u>Lion</u>	Harbor <u>Seal</u>
Total Number Harvested	0.0	17.3
Total Number Struck and Lost	0.0	6.5
Total Number Taken	0.0	23.8
Number Harvested Per Capita	0.00	0.19

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

HARBOR SEAL HARVEST BY MONTH														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Unknown Month	Total
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	3	5	1	7	0	0	0	0	0	16
Struck & Lost	0	0	0	0	0	3	2	1	0	0	0	0	0	6
Total Take	0	0	0	0	3	8	3	8	0	0	0	0	0	22
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	3.2	5.4	1.1	7.6	0.0	0.0	0.0	0.0	0.0	17.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	3.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	6.5
Total Take	0.0	0.0	0.0	0.0	3.2	8.6	3.2	8.6	0.0	0.0	0.0	0.0	0.0	23.8
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	3.2	5.4	1.1	7.6	0.0	0.0	0.0	0.0	0.0	17.3
Struck & Lost	0.0	0.0	0.0	0.0	0.0	3.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	6.5
Total Take	0.0	0.0	0.0	0.0	3.2	8.6	3.2	8.6	0.0	0.0	0.0	0.0	0.0	23.8
Total Take (%)	0.0%	0.0%	0.0%	0.0%	13.6%	36.4%	13.6%	36.4%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
Cum. Take	0.0	0.0	0.0	0.0	3.2	11.9	15.1	23.8	23.8	23.8	23.8	23.8	23.8	23.8
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	13.6%	50.0%	63.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

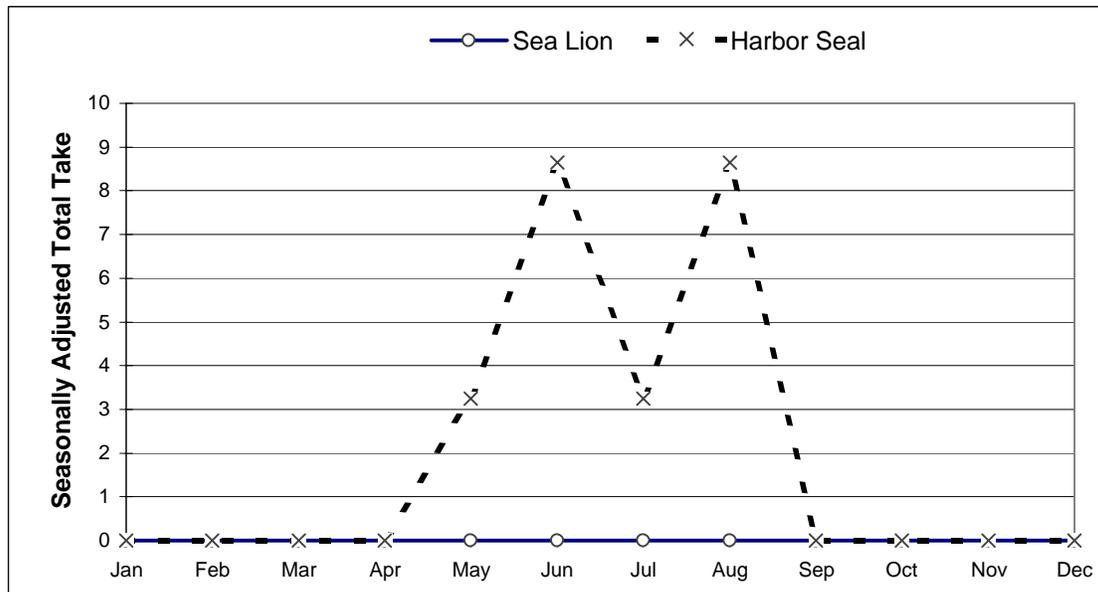
SOURCE: BBNA Household Surveys, 2007.

Table 56. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: Port Heiden, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Female	0	---	0.0	---	2	12.5%	2.2	12.5%
Adult Unknown Sex	0	---	0.0	---	4	25.0%	4.3	25.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	10	62.5%	10.8	62.5%
Total	0	---	0.0	---	16	100.0%	17.3	100.0%

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	40.5	36.0	76.5
1993	0.0	0.0	0.0	1993	30.7	19.9	50.6
1994	0.0	0.0	0.0	1994	63.0	45.3	108.3
1995	0.0	0.0	0.0	1995	17.0	10.0	27.0
1996	0.0	0.0	0.0	1996	34.3	34.3	68.6
1997	0.0	0.0	0.0	1997	69.2	50.0	119.2
1998	0.0	0.0	0.0	1998	36.1	18.6	54.7
2000	0.0	0.0	0.0	2000	19.6	0.0	19.6
2001	0.0	0.0	0.0	2001	10.1	3.4	13.4
2002	0.0	0.0	0.0	2002	30.4	18.3	48.7
2003	0.0	0.0	0.0	2003	10.0	5.6	15.6
2004	0.0	0.0	0.0	2004	20.0	13.0	33.0
2005	0.0	0.0	0.0	2005	13.0	19.5	32.5
2006	0.0	0.0	0.0	2006	17.3	6.5	23.8

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2007.

Table 57. SEA LION AND HARBOR SEAL HARVEST / TAKE ESTIMATES: South Naknek, 2006

**SAMPLING DESIGN:
CENSUS**

Total Native Households	23
Surveyed Households	21
Sampling Fraction	91.3%
Sample Household Members	43
Estimated Household Members	47.1
2000 U.S. Census Estimated Native Population	115

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%	4.8%	Total Number Harvested	0.0	0.0
Hunted	0.0%	4.8%	Total Number Struck and Lost	0.0	0.0
Harvested	0.0%	0.0%	Total Number Taken	0.0	0.0
Received	0.0%	4.8%			
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	
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	0	0	0	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 (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---

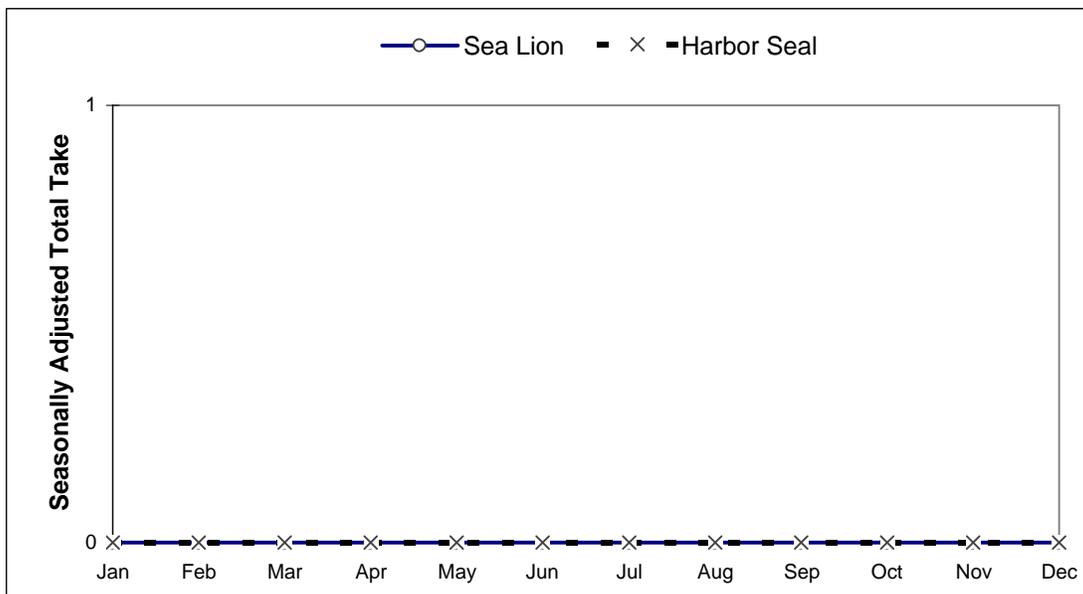
SOURCE: BBNA Household Surveys, 2007.

Table 57. (cont.) SEA LION & HARBOR SEAL HARVEST ESTIMATES: South Naknek, 2006

HARVEST BY AGE AND SEX

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

SEASONALLY ADJUSTED TAKE BY MONTH, SEA LION AND HARBOR SEAL



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

SEA LION				HARBOR SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	2.3	6.9	9.2
1993	0.0	0.0	0.0	1993	6.4	18.0	24.4
1994	0.0	0.0	0.0	1994	4.4	1.1	5.5
1995	0.0	0.0	0.0	1995	2.1	0.0	2.1
1996	0.0	0.0	0.0	1996	1.0	0.0	1.0
1997	0.0	0.0	0.0	1997	2.5	9.8	12.3
1998	0.0	0.0	0.0	1998	5.2	7.9	13.1
2000	0.0	0.0	0.0	2000	4.1	2.7	6.8
2001	0.0	0.0	0.0	2001	11.0	3.0	14.0
2002	0.0	0.0	0.0	2002	16.0	3.0	19.0
2003	0.0	0.0	0.0	2003	1.1	0.0	1.1
2004	0.0	0.0	0.0	2004	15.4	4.4	19.8
2005	0.0	0.0	0.0	2005	17.3	9.2	26.5
2006	0.0	0.0	0.0	2006	0.0	0.0	0.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2007.

Table 58. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Aleknagik, 2006

<i>SAMPLING DESIGN:</i>		<u>Total</u>
<i>CENSUS</i>	Total Native Households	41
	Surveyed Households	34
	Sampling Fraction	82.9%
	Sample Household Members	126
	Estimated Household Members	151.9
	2000 U.S. Census Estimated Native Population	187

HARVEST AND USE INFORMATION

<i>Percentage of Native Households.</i>			<i>Estimated Community Harvest and Take (Expanded):</i>			
	Sea <u>Lion</u>	Harbor Seal and <u>Spotted Seal</u>		Sea <u>Lion</u>	Harbor <u>Seal</u>	Spotted <u>Seal</u>
Used	0.0%	85.3%	Total Number Harvested	0.0	0.0	9.6
Hunted	0.0%	35.3%	Total Number Struck and Lost	0.0	0.0	7.2
Harvested	0.0%	20.6%	Total Number Taken	0.0	0.0	16.9
Received	0.0%	67.6%				
Gave Away	0.0%	20.6%	Number Harvested Per Capita	0.00	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
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		---
Cum. Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Cum. Take (%)	---	---	---	---	---	---	---	---	---	---	---	---		

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH														
	Spotted Seal					Harbor Seal				Spotted Seal			Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	2	6	0	0	0	0	0	0	0	0	8
Struck & Lost	0	0	0	1	5	0	0	0	0	0	0	0	0	6
Total Take	0	0	0	3	11	0	0	0	0	0	0	0	0	14
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	2.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6
Struck & Lost	0.0	0.0	0.0	1.2	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
Total Take	0.0	0.0	0.0	3.6	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.9
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	2.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		9.6
Struck & Lost	0.0	0.0	0.0	1.2	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		7.2
Total Take	0.0	0.0	0.0	3.6	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0		16.9
Total Take (%)	0.0%	0.0%	0.0%	21.4%	78.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		100.0%
Cum. Take	0.0	0.0	0.0	3.6	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9		
Cum. Take (%)	0.0%	0.0%	0.0%	21.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		

SOURCE: BBNA Household Surveys (Numbers based on 2005 harvest estimate).

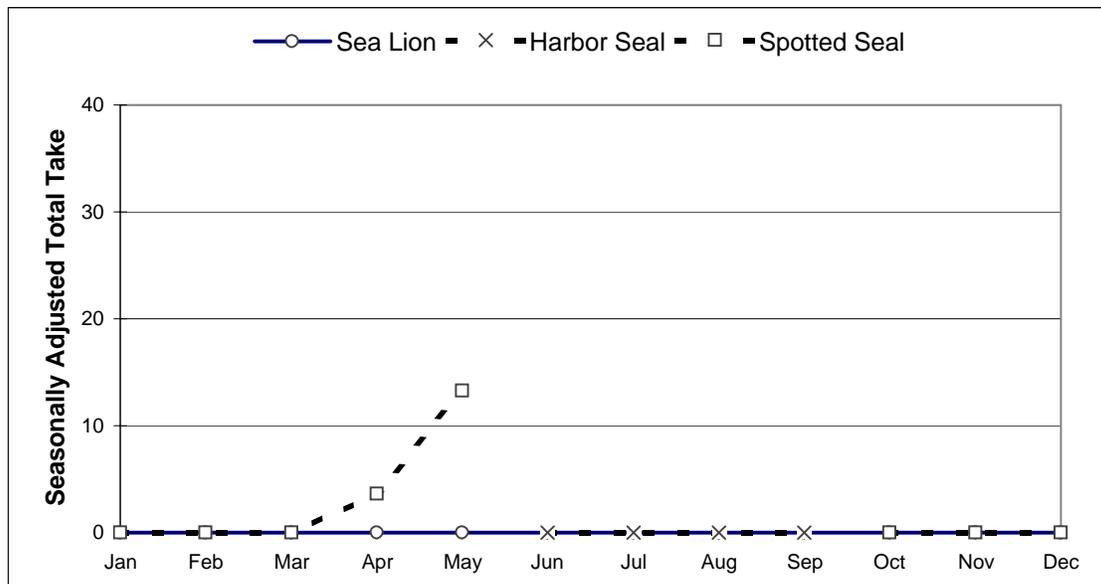
Table 58. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Aleknagik, 2006

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	25.0%	2.4	25.0%
Adult Female	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---	6	75.0%	7.2	75.0%
Juvenile Male	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	0	---	0.0	---	8	100.0%	9.6	100.0%

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	0.0	3.6	3.6	1992	28.6	5.5	34.1
1993	0.0	0.0	0.0	1993	0.0	0.0	0.0	1993	4.8	0.0	4.8
1994	0.0	0.0	0.0	1994	0.0	3.3	3.3	1994	21.5	0.0	21.5
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0	1995	11.8	13.0	24.9
1996	0.0	0.0	0.0	1996	0.0	0.0	0.0	1996	7.1	0.0	7.1
1997	0.0	0.0	0.0	1997	1.2	0.0	1.2	1997	10.8	0.0	10.8
1998	0.0	0.0	0.0	1998	3.1	0.0	3.1	1998	5.2	0.0	5.2
2000	0.0	0.0	0.0	2000	2.5	0.0	2.5	2000	6.1	2.5	8.6
2001	0.0	0.0	0.0	2001	0.0	1.2	1.2	2001	0.0	0.0	0.0
2002	0.0	0.0	0.0	2002	0.0	2.2	2.2	2002	6.6	11.0	17.6
2003	0.0	0.0	0.0	2003	0.0	0.0	0.0	2003	3.8	0.0	3.8
2004	0.0	0.0	0.0	2004	0.0	0.0	0.0	2004	4.6	1.5	6.1
2005	0.0	0.0	0.0	2005	0.0	0.0	0.0	2005	9.6	7.2	16.9
2006	0.0	0.0	0.0	2006	0.0	0.0	0.0	2006	9.6	7.2	16.9

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2000-2006 (Numbers based on 2005 harvest estimate).

Table 59. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Clark's Point, 2006

SAMPLING DESIGN:		<u>Total</u>
CENSUS	Total Native Households	23
	Surveyed Households	18
	Sampling Fraction	78.3%
	Sample Household Members	59
	Estimated Household Members	75.4
	2000 U.S. Census Estimated Native Population	69

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%	77.8%		Total Number Harvested	0.0	0.0	14.1
Hunted	0.0%	38.9%		Total Number Struck and Lost	0.0	0.0	2.6
Harvested	0.0%	27.8%		Total Number Taken	0.0	0.0	16.6
Received	0.0%	55.6%					
Gave Away	0.0%	50.0%		Number Harvested Per Capita	0.00	0.00	0.20

SEA LION HARVEST BY MONTH

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

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH

	Spotted Seal					Harbor Seal				Spotted Seal			Unknown Month	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	2	9	0	0	0	0	0	0	0	0	0	11
Struck & Lost	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Total Take	0	0	2	11	0	0	0	0	0	0	0	0	0	13
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	2.6	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1
Struck & Lost	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
Total Take	0.0	0.0	2.6	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	2.6	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1
Struck & Lost	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
Total Take	0.0	0.0	2.6	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6
Total Take (%)	0.0%	0.0%	15.4%	84.6%	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	2.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
Cum. Take (%)	0.0%	0.0%	15.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

SOURCE: BBNA Household Surveys, 2007.

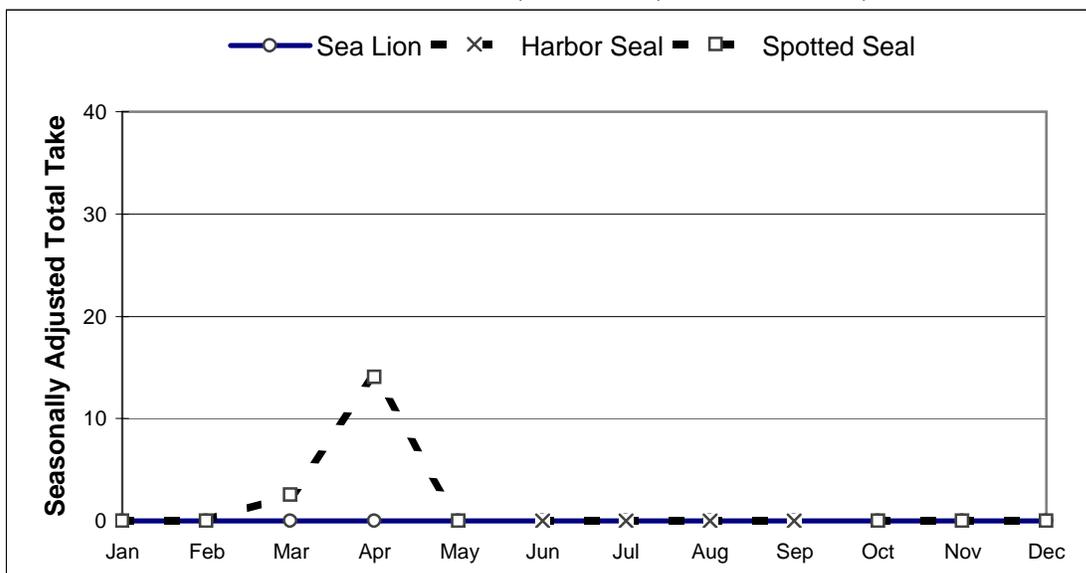
Table 59. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Clark's Point, 2006

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	---	5	45.5%	6.4	45.5%
Adult Female	0	---	0.0	---	0	---	0.0	---	1	9.1%	1.3	9.1%
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	---	0.0	---	1	9.1%	1.3	9.1%
Pup Female	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	---	0.0	---	2	18.2%	2.6	18.2%
Female Unknown Age	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	---	0.0	---	2	18.2%	2.6	18.2%
Total	0	---	0.0	---	0	---	0.0	---	11	100.0%	14.1	100.0%

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take	Year	Harvest	Struck/ Lost	Total Take
1992	0.0	0.0	0.0	1992	0.0	0.0	0.0	1992	10.6	8.5	19.1
1993	0.0	0.0	0.0	1993	0.0	0.0	0.0	1993	2.0	0.0	2.0
1994	0.0	0.0	0.0	1994	0.0	0.0	0.0	1994	2.0	0.0	2.0
1995	0.0	0.0	0.0	1995	0.0	0.0	0.0	1995	10.0	5.0	15.0
1996	0.0	0.0	0.0	1996	0.0	0.0	0.0	1996	17.1	3.8	20.9
1997	0.0	0.0	0.0	1997	1.3	0.0	1.3	1997	3.8	1.3	5.0
1998	0.0	0.0	0.0	1998	1.3	0.0	1.3	1998	3.8	1.3	5.0
2000	0.0	0.0	0.0	2000	0.0	0.0	0.0	2000	22.4	1.4	23.8
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0	2001	28.2	11.5	39.7
2002	0.0	0.0	0.0	2002	0.0	0.0	0.0	2002	81.0	13.3	94.3
2003	0.0	0.0	0.0	2003	0.0	0.0	0.0	2003	2.0	0.0	2.0
2004	0.0	0.0	0.0	2004	0.0	0.0	0.0	2004	27.0	15.0	42.0
2005	0.0	0.0	0.0	2005	2.8	0.0	2.8	2005	5.5	0.0	5.5
2006	0.0	0.0	0.0	2006	0.0	0.0	0.0	2006	14.1	2.6	16.6

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2000-2007.

Table 60. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Dillingham, 2006

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>				
	Total Native Households	22	54	76
	Surveyed Households	13	54	67
	Sampling Fraction	59.1%	100.0%	88.2%
	Sample Household Members	41	175	216
	Estimated Household Members	69.4	175.0	244.4
	2000 U.S. Census Estimated Native Populatio	---	---	1503

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%	74.1%	Total Number Harvested	0.0	0.0	15.2
Hunted	0.0%	16.4%	Total Number Struck and Lost	0.0	1.0	0.0
Harvested	0.0%	11.1%	Total Number Taken	0.0	1.0	15.2
Received	0.0%	71.9%				
Gave Away	0.0%	50.7%	Number Harvested Per Capita	0.00	0.00	0.01

SEA LION HARVEST BY MONTH													Unknown	Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Month	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Struck & Lost	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Take	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Take (%)	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cum. Take	0.0	0.0	0.0	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														Unknown	Total
	<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
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	8	1	0	0	0	0	0	0	0	0	9	
Struck & Lost	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
Total Take	0	0	0	8	1	0	1	0	0	0	0	0	0	10	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	13.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2	
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
Total Take	0.0	0.0	0.0	13.5	1.7	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	13.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2	
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
Total Take	0.0	0.0	0.0	13.5	1.7	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2	
Total Take (%)	0.0%	0.0%	0.0%	83.4%	10.4%	0.0%	6.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
Cum. Take	0.0	0.0	0.0	13.5	15.2	15.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	
Cum. Take (%)	0.0%	0.0%	0.0%	83.4%	93.8%	93.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

SOURCE: BBNA Household Surveys, 2007.

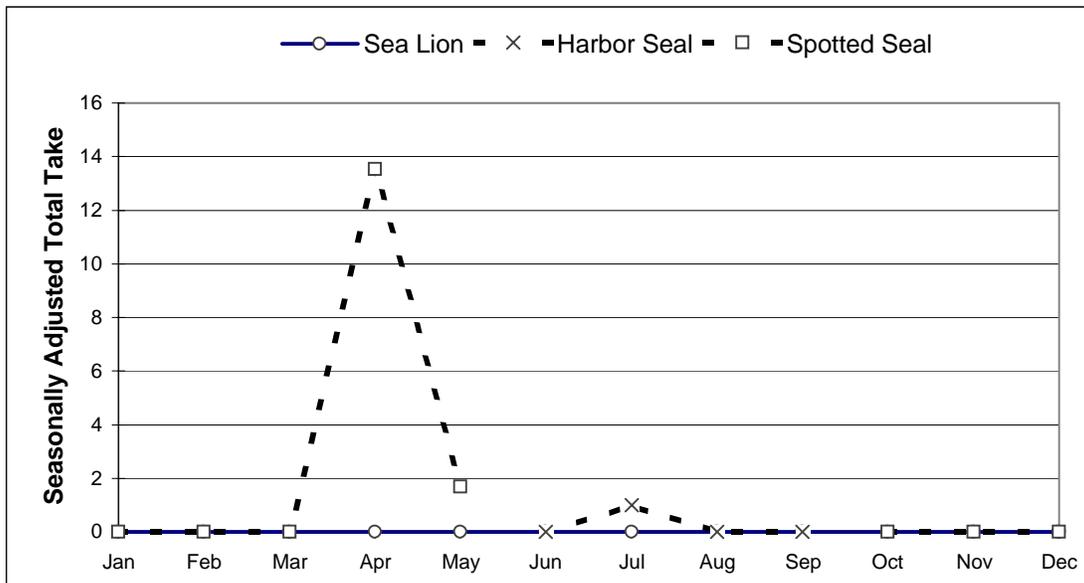
Table 60. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Dillingham, 2006

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	22.2%	3.4	22.2%
Adult Female	0	---	0.0	---	0	---	0.0	---	1	11.1%	1.7	11.1%
Adult Unknown Sex	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Female	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Juvenile Unknown Sex	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Male	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Female	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Pup Unknown Sex	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Male Unknown Age	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	---	0.0	---	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	---	0.0	---	6	66.7%	10.2	66.7%
Total	0	---	0.0	---	0	---	0.0	---	9	100.0%	15.2	100.0%

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	0.0	0.0	0.0	1992	29.2	3.8	32.9	1992	49.6	3.8	53.3
1993	0.0	0.0	0.0	1993	18.0	4.2	22.2	1993	26.1	0.0	26.1
1994	0.0	0.0	0.0	1994	16.2	0.0	16.2	1994	35.2	3.0	38.2
1995	0.0	0.0	0.0	1995	13.3	0.0	13.3	1995	7.5	7.5	15.0
1996	0.0	0.0	0.0	1996	0.0	0.0	0.0	1996	40.6	1.0	41.6
1997	0.0	0.0	0.0	1997	1.2	0.0	1.2	1997	18.0	0.0	18.0
1998	0.0	0.0	0.0	1998	8.5	0.0	8.5	1998	12.2	1.2	13.4
2000	0.0	0.0	0.0	2000	0.0	0.0	0.0	2000	11.9	3.6	15.5
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0	2001	6.1	3.6	9.7
2002	0.0	0.0	0.0	2002	0.0	0.0	0.0	2002	7.7	0.0	7.7
2003	0.0	0.0	0.0	2003	0.0	0.0	0.0	2003	4.1	0.0	4.1
2004	0.0	0.0	0.0	2004	0.0	0.0	0.0	2004	0.0	0.0	0.0
2005	0.0	0.0	0.0	2005	1.3	0.0	1.3	2005	22.5	3.8	26.2
2006	0.0	0.0	0.0	2006	0.0	1.0	1.0	2006	15.2	0.0	15.2

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2000-2007.

Table 61. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Manokotak, 2006

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>				
	Total Native Households:	32	46	78
	Surveyed Households:	31	37	68
	Sampling Fraction:	96.9%	80.4%	87.2%
	Sample Household Members:	149	180	329
	Estimated Household Members:	153.8	223.8	377.6
	2000 U.S. Census Estimated Native Population:	---	---	378

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%	85.9%	Total Number Harvested	0.0	6.6	45.9
Hunted	0.0%	49.3%	Total Number Struck and Lost	0.0	8.9	8.9
Harvested	0.0%	45.1%	Total Number Taken	0.0	15.5	54.8
Received	0.0%	74.3%				
Gave Away	0.0%	27.6%	Number Harvested Per Capita	0.00	0.02	0.12

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

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH														
	<u>Spotted Seal</u>				<u>Harbor Seal</u>				<u>Spotted Seal</u>			<u>Unknown Month</u>	<u>Total</u>	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)														
Harvest	1	0	4	14	5	0	0	1	5	6	7	4	0	47
Struck & Lost	0	1	0	1	2	0	0	3	5	3	1	0	0	16
Total Take	1	1	4	15	7	0	0	4	10	9	8	4	0	63
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	0.0	4.6	15.7	5.4	0.0	0.0	1.2	5.4	6.8	7.9	4.6	0.0	52.5
Struck & Lost	0.0	1.2	0.0	1.0	2.3	0.0	0.0	3.1	5.8	3.3	1.0	0.0	0.0	17.8
Total Take	1.0	1.2	4.6	16.7	7.6	0.0	0.0	4.3	11.2	10.1	8.9	4.6	0.0	70.3
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)														
Harvest	1.0	0.0	4.6	15.7	5.4	0.0	0.0	1.2	5.4	6.8	7.9	4.6		52.5
Struck & Lost	0.0	1.2	0.0	1.0	2.3	0.0	0.0	3.1	5.8	3.3	1.0	0.0		17.8
Total Take	1.0	1.2	4.6	16.7	7.6	0.0	0.0	4.3	11.2	10.1	8.9	4.6		70.3
Total Take (%)	1.5%	1.8%	6.5%	23.8%	10.9%	0.0%	0.0%	6.2%	15.9%	14.4%	12.6%	6.5%		100.0%
Cum. Take	1.0	2.3	6.8	23.6	31.2	31.2	31.2	35.6	46.7	56.9	65.8	70.3		
Cum. Take (%)	1.5%	3.2%	9.7%	33.5%	44.4%	44.4%	44.4%	50.6%	66.5%	80.9%	93.5%	100.0%		

SOURCE: BBNA Household Surveys (Numbers based on 2005 harvest estimates).

BBNA Household Surveys (Numbers based on 2005 harvest estimates).

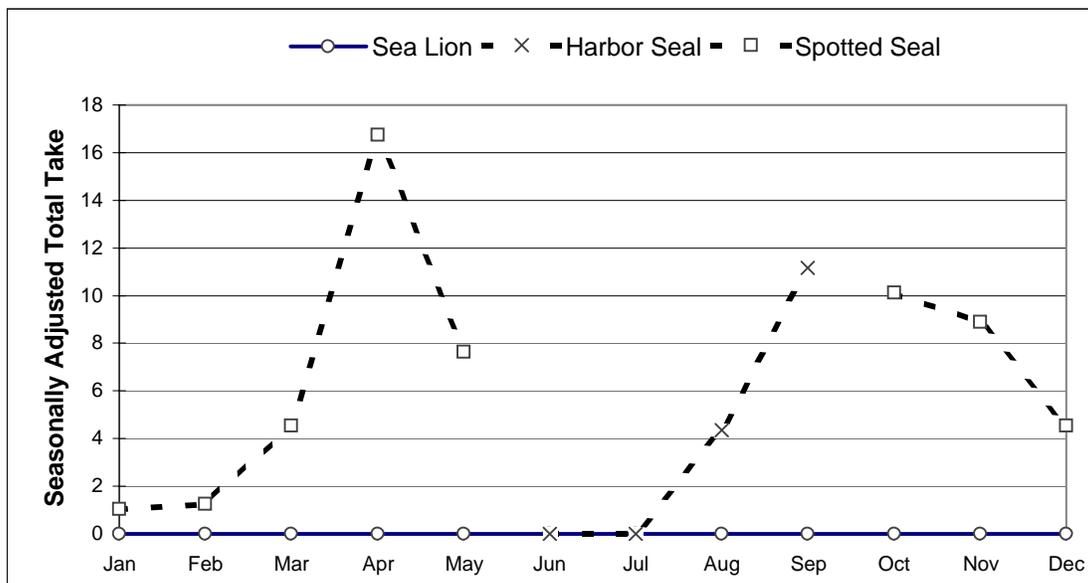
Table 61. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Manokotak, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal				Spotted Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	1	16.7%	1.2	18.8%	5	12.2%	5.4	11.7%
Adult Female	0	---	0.0	---	1	16.7%	1.0	15.6%	1	2.4%	1.0	2.2%
Adult Unknown Sex	0	---	0.0	---	2	33.3%	2.1	31.2%	20	48.8%	22.3	48.6%
Juvenile Male	0	---	0.0	---	1	16.7%	1.2	18.8%	3	7.3%	3.5	7.7%
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	---	1	16.7%	1.0	15.6%	2	4.9%	2.1	4.5%
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%	1	2.4%	1.2	2.7%
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%	1	2.4%	1.0	2.2%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%	8	19.5%	9.3	20.3%
Total	0	---	0.0	---	6	100.0%	6.6	100.0%	41	100.0%	45.9	100.0%

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	3.9	0.0	3.9	1992	4.9	3.8	8.7	1992	25.1	1.0	26.1
1993	0.0	0.0	0.0	1993	3.2	0.0	3.2	1993	7.4	0.0	7.4
1994	0.0	0.0	0.0	1994	0.0	0.0	0.0	1994	13.7	0.0	13.7
1995	0.0	0.0	0.0	1995	9.3	2.4	11.7	1995	22.9	3.6	26.5
1996	0.0	0.0	0.0	1996	2.4	3.6	6.0	1996	31.5	8.4	39.9
1997	0.0	0.0	0.0	1997	0.0	0.0	0.0	1997	19.7	7.2	26.9
1998	0.0	0.0	0.0	1998	4.0	0.0	4.0	1998	4.2	1.0	5.2
2000	0.0	0.0	0.0	2000	1.2	0.0	1.2	2000	23.0	4.7	27.7
2001	0.0	0.0	0.0	2001	3.5	0.0	3.5	2001	8.3	1.2	9.4
2002	0.0	0.0	0.0	2002	0.0	0.0	0.0	2002	0.0	0.0	0.0
2003	0.0	0.0	0.0	2003	2.2	0.0	2.2	2003	5.5	1.1	6.5
2004	0.0	0.0	0.0	2004	4.0	0.0	4.0	2004	27.1	29.6	56.7
2005	0.0	0.0	0.0	2005	6.6	8.9	15.5	2005	45.9	8.9	54.8
2006	0.0	0.0	0.0	2006	6.6	8.9	15.5	2006	45.9	8.9	54.8

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2000-2006 (Numbers based on 2005 harvest estimates).

Table 62. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Togiak, 2006

<i>SAMPLING DESIGN:</i>		<u>Active</u>	<u>Other</u>	<u>Total</u>
<i>TWO-STRATA</i>	Total Native Households	66	49	115
	Surveyed Households	63	45	108
	Sampling Fraction	95.5%	91.8%	93.9%
	Sample Household Members	295	167	462
	Estimated Household Members	309.0	181.8	490.9
	2000 U.S. Census Estimated Native Populator	---	---	750

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%	58.2%	Total Number Harvested	0.0	11.5	50.9
Hunted	0.0%	25.8%	Total Number Struck and Lost	0.0	0.0	7.4
Harvested	0.0%	25.8%	Total Number Taken	0.0	11.5	58.3
Received	0.0%	32.4%				
Gave Away	0.0%	25.8%	Number Harvested Per Capita	0.00	0.02	0.07

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

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH														Unknown Month	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	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	1	6	5	14	1	2	1	7	8	11	3	0	59	
Struck & Lost	0	0	0	0	0	0	0	0	0	4	3	0	0	7	
Total Take	0	1	6	5	14	1	2	1	7	12	14	3	0	66	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	1.0	6.4	5.3	14.8	1.0	2.1	1.0	7.3	8.6	11.7	3.1	0.0	62.5	
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	3.2	0.0	0.0	7.4	
Total Take	0.0	1.0	6.4	5.3	14.8	1.0	2.1	1.0	7.3	12.8	14.9	3.1	0.0	69.8	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	1.0	6.4	5.3	14.8	1.0	2.1	1.0	7.3	8.6	11.7	3.1		62.5	
Struck & Lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	3.2	0.0		7.4	
Total Take	0.0	1.0	6.4	5.3	14.8	1.0	2.1	1.0	7.3	12.8	14.9	3.1		69.8	
Total Take (%)	0.0%	1.5%	9.2%	7.6%	21.2%	1.5%	3.0%	1.5%	10.5%	18.3%	21.3%	4.5%		100.0%	
Cum. Take	0.0	1.0	7.5	12.7	27.5	28.6	30.7	31.7	39.1	51.8	66.7	69.8			
Cum. Take (%)	0.0%	1.5%	10.7%	18.2%	39.4%	40.9%	43.9%	45.4%	55.9%	74.2%	95.5%	100.0%			

SOURCE: BBNA Household Surveys, 2007.

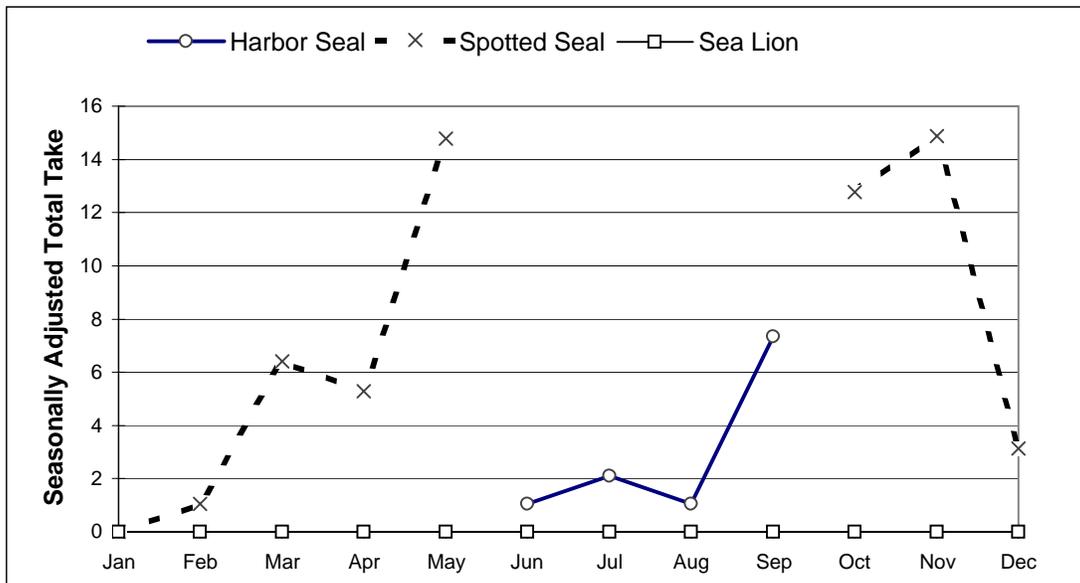
Table 62. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Togiak, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal				Spotted Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	1	9.1%	1.0	9.1%	1	2.1%	1.0	2.1%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%	7	14.6%	7.4	14.5%
Juvenile Male	0	---	0.0	---	2	18.2%	2.1	18.2%	7	14.6%	7.4	14.5%
Juvenile Female	0	---	0.0	---	0	0.0%	0.0	0.0%	8	16.7%	8.5	16.6%
Juvenile Unknown Sex	0	---	0.0	---	5	45.5%	5.2	45.5%	14	29.2%	14.8	29.0%
Pup Male	0	---	0.0	---	1	9.1%	1.0	9.1%	2	4.2%	2.2	4.3%
Pup Female	0	---	0.0	---	1	9.1%	1.0	9.1%	1	2.1%	1.1	2.1%
Pup Unknown Sex	0	---	0.0	---	1	9.1%	1.0	9.1%	6	12.5%	6.5	12.7%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%	2	4.2%	2.2	4.3%
Total	0	---	0.0	---	11	100.0%	11.5	100.0%	48	100.0%	50.9	100.0%

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	3.9	0.0	3.9	1992	24.3	2.0	26.3	1992	250.2	53.8	304.0
1993	3.3	3.3	6.5	1993	24.9	15.8	40.7	1993	174.7	49.1	223.8
1994	1.2	0.0	1.2	1994	0.0	0.0	0.0	1994	154.2	39.9	194.1
1995	0.0	0.0	0.0	1995	3.3	0.0	3.3	1995	111.5	4.4	115.9
1996	0.0	0.0	0.0	1996	3.9	0.0	3.9	1996	101.9	7.8	109.7
1997	3.6	0.0	3.6	1997	6.7	0.0	6.7	1997	79.2	7.1	86.4
1998	0.0	0.0	0.0	1998	14.1	1.4	15.5	1998	105.0	15.3	120.4
2000	0.0	0.0	0.0	2000	5.1	1.1	6.3	2000	147.0	26.7	173.6
2001	0.0	0.0	0.0	2001	5.3	0.0	5.3	2001	60.8	4.5	65.3
2002	0.0	0.0	0.0	2002	13.9	3.6	17.4	2002	79.2	18.6	97.9
2003	0.0	0.0	0.0	2003	22.0	0.0	22.0	2003	32.8	8.9	41.7
2004	0.0	0.0	0.0	2004	6.9	9.7	16.6	2004	63.8	0.0	63.8
2005	0.0	0.0	0.0	2005	10.8	0.0	10.8	2005	82.0	10.9	92.9
2006	0.0	0.0	0.0	2006	11.5	0.0	11.5	2006	50.9	7.4	58.3

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2000-2007.

Table 63. SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Twin Hills, 2006

SAMPLING DESIGN:		Total
CHAIN REFERRAL	Total Native Households	16
	Surveyed Households	16
	Sampling Fraction	100.0%
	Sample Household Members	51
	Estimated Household Members	51.0
	2000 U.S. Census Estimated Native Population	65

HARVEST AND USE INFORMATION

Percentage of Sample Households:			Estimated Community Harvest and Take (Expanded):			
	Sea Lion	Harbor Seal and Spotted Seal		Sea Lion	Harbor Seal	Spotted Seal
Used	0.0%	87.5%	Total Number Harvested	0.0	1.0	4.0
Hunted	0.0%	18.8%	Total Number Struck and Lost	0.0	0.0	4.0
Harvested	0.0%	18.8%	Total Number Taken	0.0	1.0	8.0
Received	0.0%	68.8%				
Gave Away	0.0%	18.8%	Number Harvested Per Capita	0.00	0.02	0.06

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

HARBOR SEAL AND SPOTTED SEAL HARVEST BY MONTH														Unknown Month	Total
	Spotted Seal				Harbor Seal				Spotted Seal			Unknown Month	Total		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov			Dec	
REPORTED HARVEST AND TAKE BY SAMPLED HOUSEHOLDS (UNEXPANDED)															
Harvest	0	0	0	0	1	0	0	0	1	3	0	0	0	5	
Struck & Lost	0	0	0	0	0	0	0	0	0	4	0	0	0	4	
Total Take	0	0	0	0	1	0	0	0	1	7	0	0	0	9	
ESTIMATED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	3.0	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	4.0	0.0	0.0	0.0	4.0	
Total Take	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	7.0	0.0	0.0	0.0	9.0	
ESTIMATED SEASONALLY ADJUSTED HARVEST AND TAKE BY COMMUNITY (EXPANDED)															
Harvest	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	3.0	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	4.0	0.0	0.0		4.0	
Total Take	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	7.0	0.0	0.0		9.0	
Total Take (%)	0.0%	0.0%	0.0%	0.0%	11.1%	0.0%	0.0%	0.0%	11.1%	77.8%	0.0%	0.0%		100.0%	
Cum. Take	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	2.0	9.0	9.0	9.0			
Cum. Take (%)	0.0%	0.0%	0.0%	0.0%	11.1%	11.1%	11.1%	11.1%	22.2%	100.0%	100.0%	100.0%			

SOURCE: BBNA Household Surveys, 2007.

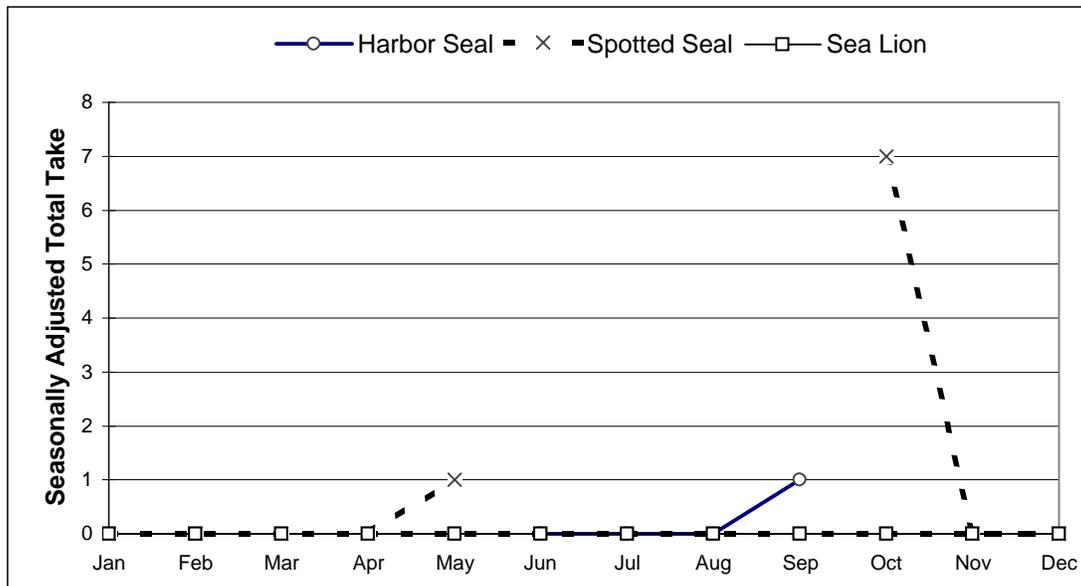
Table 63. (cont.) SEA LION, SPOTTED SEAL, AND HARBOR SEAL HARVEST: Twin Hills, 2006

HARVEST BY AGE AND SEX

	Sea Lion				Harbor Seal				Spotted Seal			
	Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)		Reported by Sample		Community Est. (Expanded)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Adult Male	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Female	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Adult Unknown Sex	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Juvenile Male	0	---	0.0	---	0	0.0%	0.0	0.0%	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	---	1	100.0%	1.0	100.0%	2	50.0%	2.0	50.0%
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	50.0%	2.0	50.0%
Male Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Female Unknown Age	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Unknown Sex and Age	0	---	0.0	---	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%
Total	0	---	0.0	---	1	100.0%	1.0	100.0%	4	100.0%	4.0	100.0%

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

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



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

SEA LION				HARBOR SEAL				SPOTTED SEAL			
Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take	Year	Harvest	Struck/Lost	Total Take
1992	---	---	---	1992	---	---	---	1992	---	---	---
1993	---	---	---	1993	---	---	---	1993	---	---	---
1994	---	---	---	1994	---	---	---	1994	---	---	---
1995	---	---	---	1995	---	---	---	1995	---	---	---
1996	0.0	0.0	0.0	1996	23.3	6.5	29.8	1996	3.9	3.9	7.8
1997	0.0	0.0	0.0	1997	8.4	2.1	10.5	1997	2.1	1.1	3.2
1998	0.0	0.0	0.0	1998	2.2	2.2	4.4	1998	15.5	6.6	22.1
2000	0.0	0.0	0.0	2000	1.6	0.0	1.6	2000	6.6	1.6	8.2
2001	0.0	0.0	0.0	2001	0.0	0.0	0.0	2001	2.5	0.0	2.5
2002	0.0	0.0	0.0	2002	1.7	1.7	3.3	2002	10.0	1.7	11.7
2003	0.0	0.0	0.0	2003	5.6	1.4	7.0	2003	4.2	0.0	4.2
2004	1.2	0.0	1.2	2004	6.8	1.9	8.8	2004	1.4	0.4	1.8
2005	0.0	0.0	0.0	2005	2.5	0.0	2.5	2005	4.9	0.0	4.9
2006	0.0	0.0	0.0	2006	1.0	0.0	1.0	2006	4.0	4.0	8.0

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys 1992-1998; BBNA Household Surveys, 2000-2007.