

ALASKA DEPARTMENT OF FISH AND GAME

DIVISION OF GAME

JUNEAU, ALASKA

ALASKA DEPARTMENT OF FISH AND GAME JUNEAU, ALASKA

STATE OF ALASKA William A. Egan, Governor

DEPARTMENT OF FISH AND GAME Walter Kirkness, Commissioner

DIVISION OF GAME James W. Brooks, Director Don H. Strode, Federal Aid Coordinator

GAME HARVEST REPORT

by

Alan M. Courtright

Volume IV Annual Project Segment Report Federal Aid in Wildlife Restoration Project W-6-R-4, Work Plan L

The subject matter contained within these reports is often fragmentary in nature and the findings may not be conclusive; consequently, permission to publish the contents is withheld pending permission of the Department of Fish and Game.

(Printed January 1964)

TABLE OF CONTENTS

l

Į

CONTE	INTS																							<u>PA</u>	GE	NO.
OBJEC	CTIVES	5.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1	
TECH	IQUES	5.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1	
FINDI	INGS.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	3	
	Sheep	> F	lar	ve	est	: 7	[ic	zke	ets	5.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	3	
	Quest	ic	na	ir	:e	Рс	ost	ca	ard	1.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	7	

WORK PLAN SEGMENT REPORT FEDERAL AID IN WILDLIFE RESTORATION

STATE :	<u>Alaska</u>		
PROJECT NO .:	W-6-R-3 and 4	TITLE:	Alaska Wildlife Investigations
WORK PLAN:	L	TITLE:	Wildlife Data Collections
JOB NO.:	<u>1 and 3</u>		
PERIOD COVERED:	includes the n	esults o y initia	30, 1963 (this report of a mailed hunter harvest ated under W-6-R-3, Work

ABSTRACT

Alaska's first attempt to obtain statewide hunter harvest information on all game species by means of a mailed questionnaire resulted in a surprisingly high return of 76 per cent from two mailings. One seventh (5,000) of the resident full-fee hunters were queried.

No stratification was employed in the sample; this undoubtedly introduced bias in the results, particularly recognizable in the caribou harvest which on the basis of the questionnaire was computed at 12,742 to 15,650 animals. Arctic hunters are known to vary widely in their individual takes of this species (from 0 to as many as 200) and since these hunters are poorly represented in the sample the questionnaire revealed little of value about the harvest of caribou in the Arctic. The total State harvest is estimated at 20,000 or more.

In other areas and for other species computed harvest data were adjudged quite reliable. Though the data did not lend themselves to thoroughgoing statistical analysis, computed harvests could in some instances be compared to known harvest data collected by other means, and most of the discrepancies were small. For example, the questionnaire indicated that a minimum of 637 sheep were taken in 1961 by resident full-fee licensees, which compares favorably with the known (from the highly successful sheep harvest tickets) 1962 total harvest of 666 by all licensees.

RECOMMENDATIONS

The mailed hunter survey should be repeated at intervals of no more than five years, unless harvest data on all important species are collected by more reliable methods.

Future postcard hunter harvest surveys should be stratified, and other groups of licensees in addition to the resident fullfee hunters should be included.

On mailed surveys the intervals between mailings should be reduced and standardized, and the first mailing should be completed as soon after January 1 as possible.

On the next mailed survey three mailings (i. e. two "reminders") should be tried and compared in effectiveness with subsequent two-mailing questionnaires.

The sheep harvest tickets should be continued. Similar harvest tickets should be required for moose in 1963 and perhaps other species at a later date.

WORK PLAN SEGMENT REPORT FEDERAL AID IN WILDLIFE RESTORATION

STATE:	Alaska		
PROJECT NO.:	<u>W-6-R-3 and 4</u>	TITLE:	<u>Alaska Wildlife Investigations</u>
WORK PLAN:	L	TITLE:	Wildlife Data Collections
JOB NOS.:	<u>1 and 3</u>		
PERIOD COVERED:	July 1, 1961	to June	30, 1963

OBJECTIVES

To develop techniques for determining the hunter harvest of game animals in Alaska.

TECHNIQUES

1. Returns from a postcard hunter questionnaire (Figure 1) mailed to five thousand license holders were analyzed. The hunters to be queried were selected by extracting every seventh license application from the files. The selection was confined to resident full-fee license holders, thus eliminating from the sample two categories of hunters who undoubtedly contributed substantially to the harvest of some species. These categories were: (1) nonresident hunters (including those who actually live in Alaska but had not yet become residents); and (2) the so-called subsistence license hunters. The questionnaires were mailed beginning in mid-March 1962, which, because of the method employed at that time for filing license applications, was the earliest possible date. A reminder was mailed to those persons who had not yet replied by mid-May. Returned cards were coded and processed by the Department's IBM section.

2. The 1962 hunting license applications were classified according to the Game Management Units in which the purchasers resided at the time of license purchase (excluding nonresidents who listed an address outside of Alaska). This gave some idea of the distribution of hunters in the State and was originally intended to serve as a basis for stratification on a survey to be conducted in 1963. It was later decided, however, that the survey need not be repeated so soon and therefore the classification of licenses served mainly to reflect hunter

Figure 1. The 1961 hunter harvest questionnaire postcard. The blank postcards with stamps attached were sent to licensees in envelopes.

ALASKA DEPARTMENT OF FISH AND GAME
1961 Hunter Questionaire
Please fill out and mail even if you did not hunt in 1961.
Information will not be used for enforcement purposes.
1. Did you hunt BIG GAME
in Alaska in 1961? It is the species listed below, please list the number of each you
killed by sex, and the Game Management Units in which they were taken.
Species No. Males No. Females Game Management Units
(1) Deer
(2) Caribou
(3) Goat
(4) Black Bear
(5) Moose
Grizzly Bear
(7) Sheep
(8) Polar Bear
2. Did you hunt SMALL GAME Yes No Form FG-107 in Alaska in 1961?
If you hunted SMALL GAME, please list the number of each kind you killed, and the Units in which they were taken
No. Units No. Units
(1) Ducks
(2) Geese
(3) Cranes.
3. If you killed any species of either BIG GAME or SMALL GAME not listed above, please enter the kind and number of each and the Game Management Units in which they were
taken. Species No. Males No. Females Game Mgt. Units
(1),,, _,, _
(1),,,,,,,,,
(1),,,,,,,,,
(1),,,,,,,

C-

Your cooperation will help assure the future of your hunting.

1

distribution in the light of the 1962 survey.

3. A sheep harvest ticket (Figure 2 & 3) was utilized to determine the harvest of that species. Ten thousand tickets were made available for distribution through licensing officers and Department offices. All persons wishing to hunt sheep in 1962 were required to obtain these prenumbered tickets, which were issued without cost. Mailing of the postcard (report) portion of the ticket was mandatory within 30 days after the taking of a sheep. Unsuccessful hunters were required to mail this postcard portion by January 31, 1963.

To provide for the mailing of reminders, and to give an indication of the number of harvest tickets issued, the tickets were so constructed as to provide the Department with an overlay sheet bearing the hunter's name and address. To prevent issuance of duplicate harvest tickets, licensing officers and Department personnel issuing the tickets were directed to write the number of the harvest ticket on the reverse side of the applying hunter's license.

Reminders that the report portion of the tickets had to be mailed by January 31, whether the hunter was successful or not and whether he actually hunted sheep or not were mailed two weeks before this deadline. A second reminder, calling attention to the fact that reports were now overdue, was mailed two weeks after the deadline. News releases supplemented these reminders.

Some "successful" reports were received on which the hunter did not indicate where the sheep was taken. Queries were sent to these hunters and in all cases it was possible to assign the kill to a specific Game Mangment Unit on the basis of the area description supplied in reply to this query.

FINDINGS

Sheep Harvest Tickets

Prospective sheep hunters picked up 4,050 sheep harvest tickets. Of these 4,050 tickets, reports were received on 3,608, or 89.1 per cent of those issued, leaving 442, or 10.9 per cent, unreported. The 3,608 reports were returned by 2,281 (63.2%) hunters who reported that they did hunt and 1,327 (36.8%) who reported that they did not hunt. Of those Figure 2. The 1962 Sheep Harvest Ticket, with overlay sheet removed.

SHEEP HARVEST TICKET 1962 No. 13701 1962 No. _whose mailing _B Issued to_ HUNTER'S NAME (PRINT) address is ADDRESS (PRINT) ę and whose hunting license number is... AFFIXING TAG Issued by.... HUNTER'S NAME (PRINT) TOWN (PRINT) Date issued_ 1. Hunter must punch date immediately after taking sheep. DATE TAKEN DETACH POST CARD BEFORE (PUNCH OUT CORRECT DATE) (PBNCH OUT CORRECT DATE) 2. Did not hunt sheep | | AUG. SEPT. 🔿 ľ 2 3 2 1 <u>,</u> 6 5 4 5 6 8 9 10 3 4 7 8 _/___/ 1962. 9 10 11 12 13 12 13 14 15 16 17 14 11 MO. 15 18 18 19 20 21 22 23 16 17 19 20 24 25 26 27 28 29 30 31 THIS TAG MUST BE ATTACHED TO RECOGNIZABLE PORTION OF SHEEP BEFORE TRANSPORTING IF ISSUED TO A NON-RESIDENT OR TO A RESIDENT OVER 16, TICKET NO. MUST BE but were unsuccessful. ENTERED ON HUNTING LICENSE

141

13701 SHEEP HUNTING REPORT

Hunted	sheep				
		l	unsucce	əssfu	I 🗌
D:J	ام المسلم	.	_ _		

3. Killed a sheep in Game Manage-

ment Unit

This report must be filled out and mailed within 30 days if you kill a sheep, or by Jan. 31, 1963 if you intended to hunt but did not, or hunted Figure 3. Overlay sheet from the 1962 Sheep Harvest Ticket.

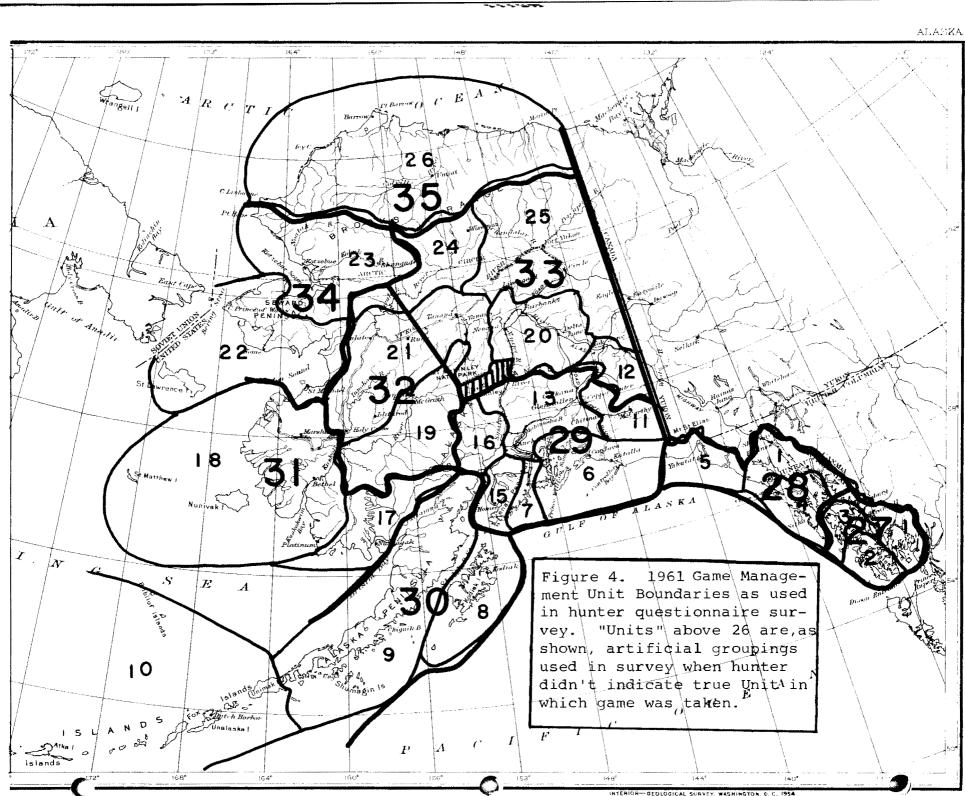
SHEEP HARVEST TICKET 1962 No. 13701

Issued to				whose mailing
4	HUNTER'S	NAME (PRINT)		
address is				
		ADDRESS (PRINT)		
and whose hunti	ing license number	is		
Issued by		at	······································	······
-	NAME (PRINT)		TOWN (PRIN	T)
Date issued	, 1962			

DETACH AND MAIL THIS OVERLAY SHEET TO ALASKA DEPT. OF FISH AND GAME, SUBPORT BLDG., JUNEAU WITHIN 10 DAYS AFTER ISSUING HARVEST TICKET.

IF HUNTER IS A NON-RESIDENT, OR IS A RESIDENT 16 YEARS OLD OR OVER, HE MUST HAVE A HUNTING LIGENSE TO OBTAIN THIS TICKET AND YOU MUST WRITE THE NUMBER OF THIS TICKET ON THE BACK OF HIS LICENSE IN INK, WITH YOUR INITIALS.

-5-



who hunted, 1,615, or 70.8 per cent, marked their reports "unsuccessful" while 666, or 29.2 per cent, of those who hunted reported that they took a sheep. The harvest of 666 animals was distributed as shown in Table 1.

Questionnaire Postcard

Of the five thousand questionnaires mailed, 139, or 9 per cent, were returned undelivered because the persons to whom they were addressed had moved without leaving a forwarding address, had given false or incomplete addresses, or for other reasons. Seven hundred and forty-seven (15%) of the hunters did not respond. Of the 3,814, or 76 per cent who returned the questionnaires, 2,616 (52%) did so on the first mailing while 1,198 (24%) returned them after a reminder had been mailed. Fourteen of the returns were discarded (treated as nonrespondents in the computations) as improperly completed. Returned cards received after September 1 were also discarded: a few cards were received as late as December 1962.

The delivery and return data from the questionnaire are summarized in Table 2.

Preliminary questions on the postcard were "1. Did you hunt big game in Alaska in 1961?"; and "2. Did you hunt small game in Alaska in 1961?" "Yes" and "No" boxes followed each of these questions. Replies to these two questions supplied data on hunting effort, as summarized in Table 3.

It will be noted from Table 3, item C, that the "Yes", "No", and "No answer" replies, when considering both of the above questions together, added up to only 33.5% of the total cards returned. This reflects the fact that a great many persons answered one or the other of the "Did you hunt" questions, but not both of them.

Table 3 also shows that three different bases could be used to compute the total Alaskan game harvest by resident, full-fee license holders, for:

- 1. 4,561 hunters were presumed contacted (5,000 minus the questionnaires returned undelivered);
- 2. 3,814 persons returned the questionnaires, with or without answers marked on them; and
- 3. 3,716 (big game) and 3,339 (small game) answered either

Game Management Unit	Number of Sheep Reported Taken	Per Cent of Total Reported Harvest
7	15	2.3
11	117	17.3
12	92	13.8
13	107	16.1
14	99	14.9
15	35	5.3
16	4	0.6
17	9	l.4
19	24	3.6
20	74	11.1
23	7	1.1
24	38	5 .7
25	12	1.8
26	28	4.2
Unknown	6	1.0
Total	666	100.2%

O.

Table 1. Distribution of the 1962 sheep harvest as indicated by returned sheep harvest tickets.

Table 2. Delivery and return data, 1961 hunter questionnaire.

ý)

١

1.	Queries mailed.	5,000
2.	No. of license applications from which selection was made.	35,000
3.	Method of selection: every 7th application.	
4.	Hunters responding:	
	a. Responding to 1st mailing	2,616 (52%)
•	b. Responding after 2nd mailing Total Response	<u>1,198 (24%)</u> 3,814 (76%)
5.	Hunters not responding	747 (15%)
6.	Cards returned undelivered	439 (9%)

-9-

Table 3. Hunting effort by the 3,814 persons who returned questionnaires.

Α. Big Game 1. Checked "Yes"* to "Did you hunt big game?" 1,765 or 67.5% of replies lst mailing a. to 1st mailing b. 2nd mailing 774 or 64.6% of replies to 2nd mailing Total "Yes" replies 2,539 or 66.6% replies 2. Checked "No" to "Did you hunt big game?" lst mailing 789 or 30.2% of replies a. to 1st mailing 388 or 32.4% of replies b. 2nd mailing to 2nd mailing Total "No" replies 1,177 or 30% of replies 3. Did not reply to question "Did you hunt big game?" and did not, in other portion of questionnaire, indicate that game was taken.* lst mailing 62 or 2.4% of replies a. to 1st mailing 36 or 3.0% of replies b. 2nd mailing to 2nd mailing 98 or 2.6% of replies Small Game в. 1. Checked "Yes"* to "Did you hunt small game?" a. 1st mailing 956 or 36.5% of replies to 1st mailing b. 2nd mailing 349 or 29.1% of replies to 2nd mailing Total "Yes" replies 1,305 or 34.2% of replies 2. Checked "No" to "Did you hunt small game?" lst mailing 1,339 or 51.2% of replies a. to 1st mailing b. 2nd mailing 695 or 58.0% of replies to 2nd mailing Total "No" replies 2,034 or 53.3% of replies

Table 3 cont.

Did not reply to question "Did you hunt small game?" 3. and did not, in other portion of questionnaire, indicate 'that small game was taken.* lst mailing 324 or 12.4% of replies a. to 1st mailing b. 2nd mailing 154 or 12.9% of replies to 2nd mailing Total "No" answers 474 or 12.4% of replies Big Game and Small Game Together с. Replied "Yes" to both "Did you hunt?" questions. 1. lst mailing 729 or 27.9% of replies a. to 1st mailing b. 2nd mailing 240 or 20.0% of replies to 2nd mailing Total "Yes" replies 969 or 25.4% of replies Replied "No" to both "Did you hunt?" guestions. 2. a. lst mailing 182 or 7.0% of replies to 1st mailing b. 2nd mailing 93 or 7.8% of replies to 2nd mailing Total "No" replies 275 or 7.2% of replies 3. Did not answer either "Did you hunt?" question and did not, in other portion of questionnaire, indicate that both big game and small game were taken.* lst mailing 17 or 0.6% of replies a. to 1st mailing 18 or 1.5% of replies b. 2nd mailing

> to 2nd mailing Total "No answers" 35 or 0.9% of replies

* If there was no answer given to these questions, but the respondent indicated taking animals of the proper category, the "Yes" boxes were checked on receipt and treated as original "Yes" replies. "yes" or "no" to the respective "Did you hunt" questions (or indicated taking one or more animals, thus providing an automatic "Yes" answer even though there was no "X" in the box provided).

The use of any particular one of the above figures to compute the total harvest by resident full-fee license holders would entail certain assumptions. For example, if the deer harvest were computed:

- 1. by dividing the number of deer reported taken (1,427) on returned questionnaires by the number of persons presumed contacted (4,561) and multiplying the result by the number of licensees (35,000) from which the sample was drawn, the result is an extrapolated harvest of 10,950 deer. Asserting that this is the total number of deer taken in 1961 by resident full-fee license holders involves the assumptions that (1) the persons (747) who presumably received the questionnaires but did not return them did not take any deer, and (2) those persons (98) who did not reply to the "Did you hunt big game" question actually did not hunt (or if they hunted, didn't take anything). The latter assumption would have only a minor effect on the computed total harvest of deer or any other species:
- 2. by dividing the number of deer reported taken by the number of persons who returned the questionnaire (3,814) and multiplying by 35,000--giving a computed harvest of 13,095--it must be assumed that those who did not give a "Yes" or "No" answer did not take any game, and that those who did not return the questionnaire hunted--and were successful--in the same proportion as those who did reply.
- 3. by dividing the deer reported taken by the number of persons (3,716) who supplied a "Yes" or "No" answer and multiplying by 35,000 (giving a computed harvest of 13,440) the necessary assumptions are that (1) the persons who presumably received the questionnaires but did not return them hunted and were successful in the same proportion as those who did report, and (2) the persons who did not give a "Yes" or "No" answer actually did include some persons who did hunt and did take deer, but perhaps just couldn't figure how

-12-

to complete the questionnaire. Obviously the latter assumption is unsound: those who didn't check "Yes" or "No" more likely assumed it would be obvious they didn't hunt, or hunted and didn't take anything, if all the rest of the spaces were also left blank.

The first assumption made above--that persons who didn't reply to the questionnaire took no game--is probably unlikely also. While it has been observed in surveys conducted elsewhere that unsuccessful hunters are less likely to respond than successful ones, it will be seen from Table 3 that there is but slight difference in hunting effort between hunters who responded to the first mailing and those who required a reminder. There is obviously some difference, as is further borne out by Table 4, showing hunter success on big game. Nevertheless, it is probable that hunters who did not return the questionnaire did take some The computed harvests by Game Management Unit (and in ¢ame. some other tables), which are computed using the number of hunters contacted as a base, can therefore be regarded as being absolute minimums. A comparison of harvests computed on the three abovementioned bases appears in Table 5.

No attempt has been made to correlate the distribution of the harvest with the distribution of hunters by residence (Table 8). The latter were obtained from 1962, not 1961, license applications and were intended for use in stratifying a 1962 questionnaire which was not carried out.

Tab	le 4. Hunter success on big ga the number of persons (2 indicated taking game) t big game in Alaska in 19	,539) o the	wł	ho answered "Yes" (or
1.	Took no big game a. lst mailing	439 (or	24.9% of "Yes" answers
				on 1st mailing
	b. 2nd mailing	458 0	or	59.2% of "Yes" answers
	Total	897 0	or	on 2nd mailing 35.3% of "Yes" answers
2	mock one species of hig game			
۷.	Took one species of big game a. lst mailing	726 (or	41.1% of "Yes" answers
	2			on 1st mailing
	b. 2nd mailing	271 0	or	35.0% of "Yes" answers
	Total	997 0	or	on 2nd mailing 39.3% of "Yes" answers
3.	Took two species of big game a. lst mailing	533	~~	30.2% of "Yes" answers
	a. ist matting	555 (01	on 1st mailing
	b. 2nd mailing	28 0	or	3.6% of "Yes" answers
	T + 1	<u> </u>		on 2nd mailing
	Total	56L (or	22.1% of "Yes" answers
4.	Took three species of big game			
	a. lst mailing	62 0	or	3.5% of "Yes" answers
	h and mailing	0	~~	on lst mailing l.2% of "Yes" answers
	b. 2nd mailing	9 (OL	on 2nd mailing
	Total	71 0	or	2.8% or "Yes" answers
5.	Took four or more species of b	ia ast	m۵	
5.	a. 1st mailing			0.5% of "Yes" answers
	-			on lst mailing
	b. 2nd mailing	3 (or	0.4% of "Yes" answers
	Total	12 0	or	on 2nd mailing 0.5% of "Yes" answers
	10041	、	-	

C)

-14-

• Table 5. Comparison of computed 1961 big game harvest by resident full-fee licensees, using three different methods of computation.

1

Species	Using the number of persons con- tacted (4,561) as the sample sized	Using the number of persons who returned the questionnaire (3,814) as the sample size	Using the number of persons who returned the questionnaire with positive answers* (3,716) as the sample size.
Species	1	······································	
Deer	10,950	13,095	13,441
Caribou	. 12,752	15,252	15,654
Goat	506	606	622
Black Bear	1,143	1,367	1,403
Moose	7,811	9,342	9,588
Brown & Grizzly	368	430	452
Sheep	637	762	782
Polar Bear	38	46	47

*i. e. Those who answered either "Yes" or "No" to the question "Did you hunt big game in Alaska in 1961?" Ninety-eight persons returned cards without answering this question, and without, in another portion of the questionnaire, indicating that they took one or more big game animals (thus providing an automatic "Yes" answer).

-15-

Table 6. Computed minimum 1961 game harvests by resident fullfee license holders, by Game Management Units. The computation formula is:

```
Harvest = Number of species reported taken x 35,000
Number of persons contacted
```

A. Big Game

		DEER			MOOSE	
<u>UNIT</u>	Male	<u>Female</u>	Total	Male	Female	Total
1	2,0 03	736	2,739	130		130
2	783	238	1,021	8		8
3	1,535	490	2,025	31		31
4	2,256	1,074	3,330		8	8
5	54	53	107	69		69
6	453	222	675	15	8	23
7	8		8	253	31	284
8	238	54	292			
9				176	77	253
10						
11				8		8
12				77		77
13				1,059	15	1,074
14				1,458	445	1,903
15				1,075	414	1,489
16				269	92	361
17				146	8	153
18				77		77
19					130	130
20				668	23	691
21				176		176
22				38		38
23				46		46
24				77		77
25				215		215
26				15		15
27*	153	77	230			
28*	230	85	315	8		8
29*		15	15	192	99	291
30*						
31*						
32*						
33*				115		115
34*						
35*						
36*	153	<u>39</u> 3,083	<u> 192 </u>	<u>61</u> 6, 4 62	1,350	61
Totals	7,866	3,083	10,949	6,462	1,350	7,811

-16-

- - - - -

Table 6 (cont.)

A. Big Game

٩,

II):)

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5				•				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				CARIBOU			GOAT		SHEEF
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			_Male_	Female	Total	Male	Female	Total	Total
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						138	84	222	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						8		8	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$						8	8	16	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$,			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			8	-	8		15		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						31		31	15
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			268	100	368				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									54
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									46
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		4				8		8	123
16 38 38 76 17 69 23 92 18			215		368	69	53	122	115
17 69 23 92 18 19 31 8 38 20 138 92 230 21 38 15 53 22 23 15 38 23 836 253 1,090 24 169 77 245 25 821 668 1,489 26 714 115 829 27* 8 8 16 28* 8 29* 199 146 345 8 8				8	8	15		15	69
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			38	38	76				
19 31 8 38 20 138 92 230 21 38 15 53 22 23 15 38 23 836 253 1,090 24 169 77 245 25 821 668 1,489 26 714 115 829 27* 8 8 16 28* 29* 199 146 345 8 8 30*			69	23	92				
20 138 92 230 21 38 15 53 22 23 15 38 23 836 253 1,090 24 169 77 245 25 821 668 1,489 26 714 115 829 27* 8 8 16 28* 9* 199 146 345 8 8 30*									
21 38 15 53 22 23 15 38 23 836 253 1,090 24 169 77 245 25 821 668 1,489 26 714 115 829 27* 8 8 16 28* 29* 199 146 345 8 8 30*									23
22 23 15 38 23 836 253 1,090 24 169 77 245 25 821 668 1,489 26 714 115 829 27* 8 8 16 28* 29* 199 146 345 8 8 30*									46
23 836 253 1,090 24 169 77 245 25 821 668 1,489 26 714 115 829 27* 8 8 16 28* 29* 199 146 345 8 8 30*									
24 169 77 245 25 821 668 1,489 26 714 115 829 27* 8 8 16 28* 29* 199 146 345 8 8 30*									
25 821 668 1,489 26 714 115 829 27* 8 8 16 28* 29* 199 146 345 8 8 30*			836	253	1,090				. 8
26 714 115 829 27* 8 8 16 28* 29* 199 146 345 8 8 30*				77	245				8
27* 8 8 16 28* 29* 199 146 345 8 8 30*			821	668					15
28* 29* 199 146 345 8 8 30*			714	115	82 9				23
29* 199 146 345 8 8 30*						8	8	16	
30*									
			199	146	345	8		8	54
31*									
32*									
33* 92 84 176			92	84	176				23
34*									
35*									
	-			31	62	15		<u> 15</u>	_15
Totals 7,973 4,780 12,752 339 168 507 6	s	5 7	7,973	4,780	12,752	339	168	507	637

Table 6 (cont.)

A. Big Game

-

BLACK BEAR			BR. &	BR. & GRIZZLY BEAR			POLAR BEAR		
UNIT	Male	Female	Total	Male	Female	Total	Male	Female	<u>Total</u>
1	69	15	84						
2	7	8	15						
2 3	8	7	15						
4	15		15	23	8	31			
5	15		15	8		8			
6	23		23	8		8			
7	31		31						
8				38	8	46			
9	15		15	69		69			
10									
11	8		8	8		8			
12	8		8	8		8			
13	61		61	15		15			
14	161	46	207	8		8			
15	130	23	153						
16	38	23	61	8		8			
17				38		38			
18	_	_	_	_		_			
19	53	8	61	8	_	8			
20	115	8	123	23	8	31			
21	61	15	77						
22		0	- 1	0.0		0.0			
23	23	8	31	23		23			
24	8		8	8		8			
25	46	23	69	15	0	15			
26	8		8		8	8			
27*									
28*	16		15	0	7	16			
29*	15		15	8	7	15			
30* 21+									
31* 32*									
32 ^ 33 *	15		15						
34*	10		T						
34* 35*									
36*	15		15	R		Q	21	Q	२ ०
Totals	<u> </u>	184	1143	<u>8</u> 324	39	<u>8</u> 363	<u>31</u> 31	8	<u>39</u> 39
iocais	540	104	TT43	527		505	<u>э</u> т	0	

-____

Table	6.	(cont.)
Tante	••	(001101)

r

r

ľ

ľ

U

1000

L

[],)

R	Small	Game	

UNIT 1 2 3	ARES & RABBI 560 130 77 31	82 7 130	DUCKS	PTARMIGAN	CRANES	GROUSE
1 2 3	130 77	130	5,000			
2 3	130 77	130	5,000			
2 3	130 77	130	5,000	406		1,070
3	.77		1,880	38		1,070
		520				
Δ	21	529	2,530	25		253
4		260	2,160	77		246
5	8	54	745	54		38
6	483	635	4,030	338		391
7	1,170	306	1,590	2,880		2,210
8	1,230	8	2,280	330	-	1
9	598	2,130	3,570	5,080	8	1,950
10	100	100	199	150		107
11	123		107	23		391
ļ2 '	1,680	146	1,340	384	8	1,260
13	2,020	15	1,740	9,370		3,780
14	2,260	299	11,200	4,220	38	6,650
15	912	15	1,940	2,240		6,7 40
16	107	77	2,120	583	15	729
17	284	560	814	1,5 7 0		3,520
18	452	844	1,120	1,810	8	414
19	982	15	361	945	8	797
20	28,200	513	8,770	6,100	54	10,500
21	4,110	452	1,750	682		1,730
22	529	299	1,190	5,100	23	
23	484	130	583	495		46
24	529	38	100	522		84
25	3,820	61	422	921		1,630
26	1,070	69	637	1,0 7 0		314
27*						
28*		38	384			8
29*	192	23	254	10 7		138
30*			2			
31*						
32*						
33*	238		25			299
34*						
35*						
36*	97 5	192	<u>1,170</u>	430	_15	<u> </u>
Totals	53,200	8,510	60,300	45,800	176	45,139

* Unit numbers above 26 are arbitrary divisions of the state used when a hunter didn't report the Unit in which the animal was taken (see Figure 4). The "Unit No." assigned to these was based on the postmark or, in a few cases, on a note written by the hunter giving the general area where the animal was taken. Divisions 27 to 35 are shown in Figure 4. Division 36 (the numbers were assigned for IBM coding purposes) is the entire state (i.e. location unknown).

-19-

Table 7. Harvest, harvest participation, and hunter success by 1961 resident full-fee license holders.

A. BIG G							
	Computed Min.			Per Cent of	Per Cent	Computed Total	Ave. No.
Species	Total Number	Male	Female	Licensees*	Success of	Number of Per-	Taken by
	Animals Taken			Who Too k	Licensees* Who	sons* Taking	Hunters Wh
	by Licensees*			Species	Hunted Big Game	Species	Took Speci
Deer	10, 95 0	7,866	3,083	11	20	3,950	2.7
Caribou	12,752	7,981	4,772	16	28	5,520	2.3
Goat	506	322	184	1		420	1.2
B l ack Bea	ar 1,143	952	192	1	2	982	1.1
Moose	7,811	6,592	1,120	22	39	7,600	1.0
Brown &							
Grizzly E	Bear 368	322	46	1	2	368	1.0
Sheep	637	637		2	3	608	1.0
				less	less		
Polar Bea	ar 38	31	8	than l	than l	38	1.0

A. Big Game

-20-

* Resident full-fee licensees only.

Table 7. (Cont.)

 \langle

Spe	cies	Computed Mir Total Number Animals Take by Licensees	c Licensees* en ^l Who took	Per Cent Success of Licensees* Who Hunted Small Ga	ame ³	Computed Total Number of Per- sons* Taking Species	Ave. No. Taken by Hunters Who Took Species	
Cra	nes	184	less than l	1		115	1.5	
Gee	se	8,500	5	17		1,750	4.9	
Duc	ks	60,000	14	48		4,800	12.5	
Gro	ouse	45,000	13	44		4,400	10.3	
Pta	rmigan	46,000	10	33	*	3,300	13.7	
	es & bits	53,000	11	37		3,700	14.3	
1.			Numbers of animals reported Number of persons contacted (4561) Reported number of hunters taking a species			otal number of egular hunting icensees (35,000)		
	Licensees Who = Took Species		Number of persons contacted (4561)			x 100		
3.	3. Computed % of Success =		Reported number of hunters who took a particular species Number of persons who reported hunting that category (big or small game)		x l	00		

No. of

5

Resident full-fee licensees only. *

÷

Game	Resident Full-	Nonresidents	Subsistence	<u></u>
Management Unit	Fee Licensees	Giving Alaska Address	Licensees	Total
1	5,529	266	73	5,868
2	147	10	60	217
3	1,006	36	27	1,069
4	1,347	49	92	1,488
5	138	21	5	164
6	618	62	46	726
7	650	16	9	675
8	1,046	190	2	1,238
9	515	42	23	580
10	138	13		151
11	30		7	37
12	230	10	73	313
13	344	10	77	431
14	14,712	682	134	15,528
15	1,876	59	32	1,967
16	17	5	28	50
17	350	8	13	371
18	504	21	468	993
19	186	17	142	345
20	6,426	540	165	7,131
21	224	20	175	419
22	412	12	207	631
23	320	10	250	580
24	111	4	11	126
25	166	8	187	361
26	157	4	85	246
Totals	37,199	2,115	2,391	41,705

Table 8. Distribution of hunters by area of residence as indicated by 1962 license stubs.

à.

0

-22-

SUBMITTED BY:

T

Ĭ.

1

İ (),)

APPROVED BY:

Alan M. Courtright Game Biologist

Federal Aid Coordinator

Director, Division of Game
