



1963-64 REPORT ON GAME HARVEST

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JUNEAU, ALASKA

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ALASKA WILDLIFE INVESTIGATIONS

1963-64 GAME HARVESTS

BY

Alan M. Courtright

Volume V, No. 2
Project Segment Report
Federal Aid in Wildlife Restoration
Project W-6-R-5, Work Plan K

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. Additional biological information obtained during the period covered by these reports will be published at a later date in comprehensive form.

(Printed June 1965)

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WORK PLAN SEGMENT REPORT
FEDERAL AID IN WILDLIFE RESTORATION

STATE: Alaska

PROJECT NO.: W-6-R-5, 6 TITLE: Alaska Wildlife Investigations

WORK PLAN: K TITLE: Game Harvest Statistics

PERIOD COVERED: July 1, 1963 to September 30, 1964

OBJECTIVES

To obtain and compile figures on the harvest of game animals in Alaska, so as to present a continuing record of such harvests. To develop and refine techniques for obtaining Statewide harvest data.

TECHNIQUES

The methods used to obtain harvest data included:

1. Harvest Tickets: Persons intending to hunt sheep and moose obtained these tickets from license vendors without cost (vendors were paid 15 cents for each ticket issued). Upon taking a moose or sheep, hunters were required to attach one portion of the harvest ticket to the animal; the "report" portion was required to be completed and mailed within 15 days. Unsuccessful hunters were required to complete and mail the report portion of the ticket within 30 days of the last closing date of the season on the species in question. Overlay sheets, completed by vendors when the tickets were issued and then mailed to the Department, provided information on the number of hunters who obtained tickets, as well as names and addresses for the mailing of reminders to delinquent issues. Sample tickets are shown in Figs. 1 and 2.
2. Sealing Certificates: Regulations requiring that bear, (brown-grizzly and polar) and beaver hides be sealed within 30 days of taking, or before being exported from the State, provide reasonably accurate data on the takes of these species. In the process of applying seals, the location and take, size of pelt, and other needed information is obtained. Sealing forms are shown in Figs. 3 and 4.

Fig. 1. Moose Harvest Ticket

MOOSE HARVEST TICKET 1963 No. 46280

Name _____

Address _____

License No. _____ Date Issued _____, 1963

DETACH AND MAIL TO ALASKA DEPT. OF FISH AND GAME, SUBPORT BUILDING, JUNEAU.

WRITE NUMBER OF THIS TICKET ON BACK OF APPLICANT'S LICENSE.

MOOSE HARVEST TICKET 1963 No. 46280

Name _____

Address _____

License No. _____ Date Issued _____, 1963

PUNCH MONTH AND DATE, AND ATTACH THIS TICKET TO A RECOGNIZABLE PORTION OF THE MOOSE IMMEDIATELY UPON TAKING.

1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31		

AUG. SEPT. OCT.
 NOV. DEC.

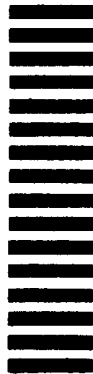
Alaska Dept. of Fish & Game
 JUNEAU, ALASKA

FIRST CLASS
 Permit No. 13
 JUNEAU, ALASKA

BUSINESS REPLY CARD
 NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

Postage will be Paid by

Alaska Department of Fish & Game
SUBPORT BUILDING
JUNEAU, ALASKA



1963 No. 46280
MOOSE HUNTING REPORT

I, _____
Hunter's Name (print)

- 1. Hunted Moose in 1963, but was unsuccessful
 - 2. Did not hunt Moose
 - 3. Killed a Moose Male Female in Game
- Mgt. Unit on ____ / ____ / 1963
Mo. Day

at _____
Specific Locality

THIS REPORT MUST BE FILLED OUT AND MAILED WITHIN 15 DAYS IF YOU KILL A MOOSE, OR WITHIN 30 DAYS AFTER CLOSE OF SEASON IF YOU DID NOT HUNT, OR HUNTED BUT WERE UNSUCCESSFUL.

Fig. 2. Sheep Harvest Ticket

SHEEP HARVEST TICKET 1963 No. 54074

Name _____

Address _____

License No. _____ Date Issued _____, 1963

DETACH AND MAIL TO ALASKA DEPT. OF FISH AND GAME, SUBPORT BUILDING, JUNEAU.

WRITE NUMBER OF THIS TICKET ON BACK OF APPLICANT'S LICENSE.

SHEEP HARVEST TICKET 1963 No. 54074

Name _____

Address _____

License No. _____ Date Issued _____, 1963

PUNCH MONTH AND DATE, AND ATTACH THIS TICKET TO A RECOGNIZABLE PORTION OF THE SHEEP IMMEDIATELY UPON TAKING.

1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31		

JULY AUG. SEPT.



3

Alaska Dept. of Fish & Game
JUNEAU, ALASKA

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JUNEAU, ALASKA

1963 No. 54074

SHEEP HUNTING REPORT

I, _____
Hunter's Name (print)

1. Hunted Sheep in 1963, but was **unsuccessful**

2. Did not hunt Sheep

3. Killed a Sheep in Game

Mgt. Unit on ____/____/1963
Mo. Day

at _____
Specific Locality

THIS REPORT MUST BE FILLED OUT AND MAILED WITHIN 15 DAYS IF YOU KILL A SHEEP, OR WITHIN 30 DAYS AFTER CLOSE OF SEASON IF YOU DID NOT HUNT, OR HUNTED BUT WERE UNSUCCESSFUL.

Fig. 3 Form used to record information on bears taken in Alaska. Hides must be sealed within 30 days of taking, or before being exported from the State

FG-78A

ALASKA DEPARTMENT OF FISH AND GAME

BEAR SEALING CERTIFICATE

(for department use only) No. 7956

MONTH / DAY / 19

(Seal number)	(Place of sealing)	(Date of sealing)
SPECIES	SEX	SKULL
BROWN (1) _____	MALE (1) _____	LENGTH _____ in.
GRIZZLY (2) _____	FEMALE (2) _____	WIDTH _____ in.
POLAR (3) _____	UNKNOWN (3) _____	TOTAL _____ in.
LICENSE NUMBER	TAG NUMBER	GUIDE'S NAME
RESIDENT (1) _____		
NON-RES. (2) _____		
HIDE PREPARATION	HIDE CONDITION	HIDE MEASUREMENTS
FLESHED (1) _____	RUBBED (1) _____	FEET INCHES
UNFLESHED (2) _____	UNRUBBED (2) _____	LENGTH _____ / _____
UNKNOWN (3) _____	UNKNOWN (3) _____	WIDTH _____ / _____
SALTED (1) _____	(Sketch rubbed areas on hide outline below)	FLAP _____ / _____
UNSALTED (2) _____		TOTAL _____ / _____
UNKNOWN (3) _____		

UNIT

SPECIFIC LOCATION OF KILL: _____

I certify that the above-described bear was

legally taken by _____ on _____ / _____ / 196

(Hunter's name) (Month) (Day)

_____ (Hunter's address) _____ (City) _____ (State or Country)

_____ (Signature of hunter or his agent)

(Sealed by)

Sex Identifiers:

Penis Sheath (1) _____

Vaginal Orifice (2) _____

Teats (3) _____

Remarks _____

©M

Fig. 4 Beaver Sealing Certificate. Beaver hides are required to be sealed within 30 days of taking or before being exported from the State.

03003

FG-8a

ALASKA DEPARTMENT OF FISH AND GAME
Beaver Certificate

Trapper's License Number _____

Number of Beaver Skins _____

Drainage Taken _____

Game Management Unit Number _____

Trapper's Name _____

Trapper's Address _____

Total Beaver Taken to Date _____

String Tagging Officer's Signature _____

String Tagging Officer's Address _____

Sealing Officer _____

Seal Numbers _____ to _____

Trapper's Signature _____

Date _____

	0-52	53-59	60-64	65-
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

Instructions: Write actual measurement (total of length plus width) for each skin in proper column. Begin with number 1 in each size-column.

3. Fur export reports: These reports, available at post offices and common carrier offices, are required to be completed before the raw skins of wild fur animals may be exported from Alaska. A "permit" portion of a combined permit and report form is required to be attached to the outside of any package containing such raw furs. Almost all Alaskan furs (a few wolf and wolverine pelts being the main exceptions) are sent "outside" to be tanned, so the export reports, provided they are faithfully filled out and mailed, should provide accurate information on the State's fur harvest. The export and report form is shown in Fig. 5.

4. Fur dealer reports: All fur dealers are required to report on their purchases on the forms shown in Fig. 6. This information supplements the data obtained from fur export reports.

5. Bounty Reports: The Division of Protection periodically summarizes the information presented on affidavits submitted in connection with bounty claims. This provides data on magnitude and (to some degree) distribution of wolf, coyote, wolverine, and hair seal harvests. In 1963 and 1964 bounty claims were accepted on seals taken throughout the State in contrast to most previous years when the bounty applied only to those seals taken in specified parts of Alaska.

6. Certain hunts are conducted by registration or by permit. These allow accurate enumeration of the numbers of animals taken, for registrants and permittees are required to report, generally before leaving the hunt area or within a day or two afterwards. During the 1963-64 hunting season, a permit hunt was held on bison in the Delta Junction area.

7. The take by guided hunters was determined from analysis of mandatory guide reports.

Estimates based on general field observations, on checking station data, on voluntary reporting, close observation of confined harvests, or on interviews, provide harvest data on those species not reported on by one or more of the seven methods listed above. A mailed hunter survey questionnaire in 1961 and the close agreement of past estimates with information obtained through harvest tickets and other methods indicates that such estimates are reasonably accurate.

Fig. 5 Fur Export Permit and Report Form. All raw furs exported from the State must be reported on this form.

FUR EXPORT PERMIT

STATE OF ALASKA
 Department of Fish and Game
 RAW FURS MAY NOT BE EXPORTED FROM ALASKA WITHOUT THIS PERMIT ATTACHED

No. 35841

The skins herein having been legally taken, I, _____
 Print Name

 Print Address

 Post Office or Carrier Name

certify that I have completed and mailed _____
 Date
 Fur Export Report Listing all furs contained in _____
 Signature

 Detach and Mail

FUR EXPORT REPORT

No. 35841

Name _____
 Date _____
 Address _____
 Trapper or License No. _____
 Print Name of Shipper

- Species
1. Beaver
 2. Mink
 3. Muskrat
 4. Otter
 5. White Fox
 6. Other Fox
 7. Weasel (Ermine)
 8. Lynx
 9. Squirrel
 10. Seal
 11. Other (Specify) _____

City and State _____
 Address _____
 Name _____
 Shipped to _____
 Instructions: This report must be mailed at the time furs are shipped. The permit must be detached from this report and attached to fur shipment.

FIRST CLASS
 Permit No. 13
 Juneau, Alaska

BUSINESS REPLY CARD
 No postage stamp necessary if mailed in the United States

POSTAGE WILL BE PAID BY
 Alaska Department of Fish and Game
 Support Building
 Juneau, Alaska

TO:



Attach to fur shipment

Fig. 6 Fur Dealer Report Form. Dealers must record all purchases of raw furs on this form.

REPORT OF ACQUISITION OF FURS OR HIDES FG-76

ALASKA DEPARTMENT OF FISH AND GAME

SUBPORT BUILDING — JUNEAU, ALASKA

1033- 3 DATE _____, 19____

PURCHASER'S NAME _____

PURCHASED FROM (NAME) _____

ADDRESS _____

LICENSE NUMBER _____

SPECIES	NUMBER	SPECIES	NUMBER
1. Beaver		11. Wolverine	
2. Mink		12. Wolf	
3. Muskrat		13. Coyote	
4. Marten		14. Hair Seal	
5. Otter, land		15. Black Bear	
6. White (or blue) Fox		16. Polar Bear	
7. Other Fox		17. Other (SPECIFY)	
8. Weasel		18.	
9. Lynx		19.	
10. Squirrel		20.	

(SIGNATURE OF PURCHASER)

MAIL THIS COPY TO ALASKA DEPARTMENT OF FISH AND GAME, SUBPORT BUILDING,
JUNEAU, ALASKA, WITHIN 30 DAYS AFTER END OF MONTH SHOWN IN DATE, ABOVE.

FINDINGS

Total Harvest

Table 1 is a summary of 1963-64 hunting-trapping season harvest data. Although this report covers a period of 15 months in total, for any one species no more than 12 months harvest is given. (the period covered for each species is also shown in the table.)

Table 1. Game harvests in Alaska during the 1963-64 hunting and trapping seasons.

SPECIES	HARVEST	HARVEST OR REPORTING PERIOD	SOURCE OF INFORMATION
<u>BIG GAME</u>			
Bear			
Black	1,100	7/1/63 - 6/30/64	Estimate
Brown-Grizzly	615	7/1/63 - 6/30/64	Sealing program
Polar	251	7/1/63 - 6/30/64	Sealing program
Bison	20	10/5/63 - 10/10/63	Permit hunt
Caribou	28,000	1/1/63 - 12/31/63	Estimate, R. O. Skoog
Deer	12,000	8/1/63 - 12/31/63	Computed from data by H. Merriam
Elk	85	8/1/63 - 12/31/63	Estimate
Goat	600	8/1/63 - 12/31/63	Estimate
Moose	8,861	8/1/63 - 12/31/63	Harvest Tickets
Musk Ox	0	- - - - -	- - - - -
Sheep	977	7/20/63 9/20/63	Harvest Tickets
Wolf	818	7/1/63 6/30/64	Bounty Records
Wolverine	551	7/1/63 6/30/64	Bounty Records

SMALL GAME

Hare	53,000	(No formal measurements or estimates of the	
Grouse	45,000	1963-64 small game harvest were made. It	
(all species)		was reported that ptarmigan harvests were	
Ptarmigan	46,000	down considerably from immediately preceding	
(all species)		years. The hunter survey questionnaire in	
Ducks	60,000	1961 provided the adjacent figures for small	
Geese & Brant	8,500	game harvests in that year: the figures	
Cranes	176	were considered to be minimums because of the	
		design of the survey. The relationship of	
		1963-64 harvests to the 1961 figures is unknown and the data are given	
		for recording purposes only.	

Table 1 (cont.)

MARINE MAMMALS

Sea Lions	1,500	1/1/64 - 8/30/64	Direct observation, permits (commercial harvest)
Seals	38,471	7/1/63 - 6/30/64	Bounty Records
Walrus	1417-1534	7/1/63 - 6/30/64	Direct observations/ interviews

FUR ANIMALS

Beaver	14,046	1/1/64 - 5/15/64	Sealing program
Mink	22,484	10/1/63 - 9/30/64	Fur Export reports
Muskrat	48,822	10/1/63 - 9/30/64	Fur Export reports
Land Otter	2,282	10/1/63 - 9/30/64	Fur Export reports
Marten	6,172	10/1/63 - 9/30/64	Fur Export reports
White & Blue Fox	1,134	10/1/63 - 9/30/64	Fur Export reports
Red Fox & Var.	999	10/1/63 - 9/30/64	Fur Export reports
Lynx	4,700	10/1/63 - 9/30/64	Fur Export reports
Weasel	1,441	10/1/63 - 9/30/64	Fur Export reports
Sea Otter		10/1/63 - 9/30/64	Dept. Experimental harvest
Coyote	345	7/1/63 - 6/30/64	Bounty records

Table 1 (cont.)

MARINE MAMMALS

Sea Lions	1,500	1/1/64 - 8/30/64	Direct observation, permits (commercial harvest)
Seals	38,471	7/1/63 - 6/30/64	Bounty Records
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White & Blue Fox	1,134	10/1/63 - 9/30/64	Fur Export reports
Red Fox & Var.	999	10/1/63 - 9/30/64	Fur Export reports
Lynx	4,700	10/1/63 - 9/30/64	Fur Export reports
Weasel	1,441	10/1/63 - 9/30/64	Fur Export reports
Sea Otter	323	10/1/63 - 9/30/64 3/14/63 - 8/3/63	Dept. Experimental harvest
Coyote	345	7/1/63 - 6/30/64	Bounty records

Comparative harvests:

Differences between harvest levels shown in Table 1 and those of immediately preceding years are for the most part not significant. Weather played its usual dominant role in influencing the take of many game species during the 1963-64 season, being particularly influential during that period in depressing the beaver take and the spring (1964) brown-grizzly bear and walrus harvests, while at the same time making possible an above-average take of polar bears. Comparisons of harvests among those species for which concrete comparative data are available, are shown in Table 2. Five seasons are shown except where concrete data are available only for shorter periods. As can be seen from the table, only the lynx harvest gives evidence of indicating a trend in population size.

Table 2. Comparisons of some Alaskan game harvests for the years 1959-60 to 1963-64.

SPECIES	1959-60	1960-61	1961-62	1962-63	1963-64
Polar bear ¹	163	156	196	167	251
Brown-Grizzly ²	505	455	460	525	615
Sheep	-	-	-	666	977
Wolf	520	725	869	757	818
Wolverine	420	441	383	445	551
Beaver	26,504	23,859	15,187	19,619	14,046
Mink*	21,000	30,000	9,000	22,000	22,000
Muskrat*	133,000	91,000	36,000	85,000	49,000
Marten*	3,000	5,000	4,500	8,000	6,000
Otter*	3,700	3,000	1,200	3,000	2,300
Blue & White Fox*	1,800	2,100	800	1,500	1,100
Other Fox*	700	700	750	1,000	1,000
Lynx*	800	900	1,100	2,500	4,700
Weasel*	2,000	1,700	1,400	1,000	1,400

*Because of recognized deficiencies in methods used to obtain harvest figures on these species, most data are rounded off to the nearest significant number.

¹Spring harvests in 1960, 1961, 1962, 1963, and 1964.

²Fall 1959 plus spring 1960, fall 1960 plus spring 1961, etc.

Distribution and composition of harvests

Concrete information on harvest distribution and composition is available only for a few of Alaska's many game species. Estimates, interviews, and survey projections can be considered fairly reliable on three species - deer, walrus, and caribou - and sealing, harvest ticket returns, and other means give accurate results on sheep, moose, brown-grizzly and polar bear, and beaver: accordingly, the distribution (and in some cases the composition) of the harvest of these species is given in Table 3. The sheep harvest, of course, is composed entirely of rams with three-quarter-curl or longer horns.

Table 3. Distribution and composition of harvest of certain Alaskan game animals in 1963-64

A. Moose

1. By Game Management Unit

UNIT	MALE	FEMALE	UNKNOWN	TOTAL
1	149	1	--	150
2*	2	--	--	2
3*	4	--	--	4
4*	1	2	--	3
5	189	111	2	302
6	15	2	--	17
7	251	174	2	427
8	--	--	--	--
9	179	46	2	227
10	1	--	--	1
11	86	37	--	123
12	138	22	1	161
13	1385	343	7	1735
14	925	557	4	1486
15	1021	417	2	1440
16	344	27	2	373
17	61	--	--	61
18	75	3	--	78
19	144	24	--	168
20	1314	131	2	1457
21	168	72	7	247
22	68	1	--	69
23	76	1	--	77
24	92	4	--	96
25	77	2	--	79
26	13	--	--	13

* There are no moose in Units 2 and 4: the persons who reported on their harvest tickets that they took moose in these Units were obviously in error. Checking station data indicated that at least one moose was taken on Mitkof Island in Unit 3: whether the other animals reported on harvest tickets to have been taken in that Unit were actually taken there or whether misidentification of Unit by reporting hunters was involved here also is unknown.

Table 3. Distribution and composition of harvest of certain Alaskan game animals in 1963-64

A. Moose

1. By Game Management Unit

UNIT	MALE	FEMALE	UNKNOWN	TOTAL
1	149	1	--	150
2	2	--	--	2
3	4	--	--	4
4	1	2	--	3
5	189	111	2	302
6	15	2	--	17
7	251	174	2	427
8	--	--	--	--
9	179	46	2	227
10	1	--	--	1
11	86	37	--	123
12	138	22	1	161
13	1385	343	7	1735
14	925	557	4	1486
15	1021	417	2	1440
16	344	27	2	373
17	61	--	--	61
18	75	3	--	78
19	144	24	--	168
20	1314	131	2	1457
21	168	72	7	247
22	68	1	--	69
23	76	1	--	77
24	92	4	--	96
25	77	2	--	79
26	13	--	--	13

Table 3. (cont.)

A. Moose (cont.)

2. Sub-Unit areas (In addition to those few areas listed in this table, a fractioning of several other Units was initiated in 1963. Because of changes in these sub-units and the limited number of persons who would find the break-downs of value, the data are not reproduced here: the information will appear in a forthcoming report on moose).

UNIT	Sub-Unit	FEMALE	MALE	TOTAL
1	Haines		85	85
	Berner's Bay		3	3
	Taku		15	15
	Stikine		26	26
	Thomas Bay		6	6
	Mitkof Is.		1	1
20	A	64	142	206
	B	1	221	222
	C	39	664	703

B. Alaska Dall sheep harvest by Game Management Unit, 1963.

UNIT	NO.	UNIT	NO.	UNIT	NO.
7	25	15	45	24	52
9	1	16	15	25	23
11	131	17	1	26	83
12	150	19	27	?	1
13	136	20	157		
14	110	23	20		

C. Distribution of the 1963 Caribou harvest in Alaska.

HERD	ESTIMATED TOTAL - 1963	HERD	ESTIMATED TOTAL - 1963
Arctic	20,000	Delta	50
Porcupine	500	Nelchina	6,000
Fortymile	450	McKinley	50
Chisana	50	Beaver	30
Mentasta	100	Mulchatna	50
		Alaska Peninsula	300

Table 3 (cont.)

D. Distribution and composition of the brown-grizzly bear harvest in Alaska, fall 1963 and spring 1964.

UNIT	RESIDENT									NON-RESIDENT									TOTAL FOR UNIT			GRAND TOTALS
	SPRING			FALL			TOTALS			SPRING			FALL			TOTALS			♂	♀	?	
	♂	♀	?	♂	♀	?	♂	♀	?	♂	♀	?	♂	♀	?	♂	♀	?				
1	5	2	1	1	1	0	6	3	1	0	0	0	2	1	0	2	1	0	8	4	1	13
4	18	5	1	2	3	0	20	8	9	12	5	0	5	2	0	17	7	0	37	15	9	61
5	1	0	0	1	1	0	2	1	0	1	0	0	0	0	0	1	0	0	3	1	0	4
6	10	3	2	6	8	0	16	11	2	3	1	0	5	0	0	8	1	0	24	12	2	38
7				0	0	0	0	0	0				0	1	0	0	1	0	0	1	0	1
8	26	20	2	11	1	0	37		2	24	16	2	10	8	1	34	24	3	71	31	5	107
9	15	3	1	6	13	2	21	16	3	36	7	2	36	29	2	72	36	4	93	52	7	152
10	5	3	0				5	3	0	1	1	0				1	1	0	6	4	0	10
11				1	1	0	1	1	0				5	2	0	5	2	0	6	3	0	9
12	1	0	0	1	0	0	2	0	0	0	0	0	11	5	1	11	5	1	13	5	1	19
13				8	7	0	8	7	0				13	12	1	13	12	1	21	19	1	41
14				5	2	1	5	2	1				3	2	0	3	2	0	8	4	1	13
15				2	2	0	2	2	0				0	0	0	0	0	0	2	2	0	4
16	3	0	0	7	5	0	10	5	0	1	0	0	9	2	1	10	2	1	20	7	1	28
17				1	0	2	1	0	2				0	0	0	0	0	0	1	0	2	3
19				2	1	0	2	1	0				3	3	2	3	3	2	5	4	2	11
20	5	0	0	19	5	2	24	5	2	0	0	0	2	5	1	2	5	1	26	10	6	42
21				2	1	0	2	1	0				0	0	0	0	0	0	2	1	0	3
23	4	1	0	1	2	0	5	3	0	4	1	0	2	1	0	6	2	0	11	5	0	10
24	2	0	0	2	2	0	4	2	0	0	0	0	1	0	1	1	0	1	5	2	1	8
25	2	0	0	0	0	0	2	0	0	0	0	0	1	2	3	1	2	3	3	2	3	8
26	6	1	1	4	1	0	10	2	1	3	0	0	0	1	0	3	1	0	14	3	1	18
Totals	126	38	8	82	56	7	185	72	23	85	31	4	108	76	13	193	107	17	379	179	43	603

Table 3. (cont.)

E. Distribution of the walrus harvest in Alaska, July 1, 1963 to June 30, 1964.

Location	Walrus Retrieved	% Hunting Loss	Total Kill
Kuskokwim Area	25	40	42
Norton Sound	8-10	30	11-14
Gambell	156-176	30	223-251
Savoonga	278-298	50	556-596
Northeast Cape	30-40	50	60-80
King Island	185-190	60**	462-475
Diomedede Island	44	60	110
Wales	5	50	10
Kicalina	6	20	8
Point Hope	15-20	20	19-25
Wainwright	300-350	50	600-700
Barrow	350	50	700
Other Areas*	15-20	20	19-25
Totals	1,417-1,534		2,820-3,036

* Includes eight walrus known to have been taken by Sport hunters.

** Includes orphaned calves which apparently do not survive.

Table 3. (cont.)

F. Distribution of the 1964 Alaska Beaver harvest, and trapper success.

GAME MGT. UNIT	LIMIT	TOTAL NO. OF BEAVER	NO. OF TRAPPERS	AVG. NO. BEAVER TRAPPER
1	50	204	17	12.0
2	50	157	12	13.1
3	50	40	3	13.3
4	50	0	0	0.0
6	50	155	8	19.4
7	20	13	4	3.2
8	No limit	210	18	11.7
9	15	951	91	10.4
11	20	39	6	6.5
12	15	205	63	3.2
13	20	376	43	8.7
14	40	655	60	10.9
15	40	237	24	9.9
16	40	798	39	20.5
17	15	1766	180	9.8
18	10	666	116	5.7
19	15*	2148	176	12.2
20	25	2176	194	11.2
21	20	2067	212	9.7
22	50	98	14	7.0
23	15	0	0	0.0
24	15	578	64	9.0
25	20	488	63	7.7
TOTAL		14,027	1,407	

* Portion of Unit 19 (above Medfra) had limit of 25 in 1964.

G. Distribution and composition of Alaska Deer Harvests in 1963.

Unit	MALE		FEMALE		BOTH SEXES	
	No.	%(of SE take)	No.	%(of SE take)	No.	%(of SE take)
1	1940	28.1	820	27.2	2760	27.8
2	591	8.6	139	4.6	730	7.4
3	1597	23.2	863	28.6	2460	28.8
4	2768	40.1	1192	39.6	3960	40.0
Southeast Totals	6896	100.0	3014	100.0	9910	100.0
Unit 6	no data		no data		850	(est.)
Unit 8	454		176		630	
			17			

Table 3. (cont.)

F. Distribution of the 1964 Alaska Beaver harvest, and trapper success.

GAME MGT. UNIT	LIMIT	TOTAL NO. OF BEAVER	NO. OF TRAPPERS	AVG. NO. BEAVER/ TRAPPER
1	50	204	17	12
2	50	157	12	13.09
3	50	40	3	13.33
4	50	0	0	0
6	50	155	8	19.37
7	20	13	4	3.25
8	No limit	210	18	11.66
9	15	951	91	10.45
11	20	39	6	6.5
12	15	205	63	3.25
13	20	376	43	8.74
14	40	655	60	10.91
15	40	237	24	9.87
16	40	798	39	20.46
17	15	1766	180	9.8
18	10	666	116	5.74
19	15*	2148	176	12.2
20	25	2176	194	11.2
21	20	2067	212	9.75
22	50	98	14	7.0
23	15	0	0	0
24	15	578	64	9.03
25	20	488	63	7.74
		TOTAL 14,027	1,407	

*Portion of Unit 19 (above Medfra) had limit of 25 in 1964.

G. Distribution and composition of Alaska Deer Harvests in 1963.

Unit	Male		Female		Both Sexes	
1	1940	28.1	820	27.2	2760	27.8
2	591	8.6	139	4.6	730	7.4
3	1597	23.2	863	28.6	2460	28.8
4	2768	40.1	1192	39.6	3960	40.0
Totals	6896	100.0	3014	100.0	9910	100.0
Unit 8	454	78.0	176	28.0	630	

The 1964 polar bear harvest of 251 animals consisted of 78 per cent males and 22 per cent females. Nonresident hunters, who took 56 per cent of the total, as usual selected males to a greater extent than did resident hunters, the nonresident take being composed of 89 per cent males compared to 61 per cent males in the harvest by residents.

The 1963-64 walrus harvest of 1,417 to 1,537 animals was about one-half of the total kill, the hunting loss as in the past being quite high. Table 3E shows the walrus harvest and hunting loss by area. The harvest was composed of 69 per cent bulls, 25 per cent cows, and 6 per cent calves.

Guided hunters from 41 states and twelve foreign countries took 1,110 head of big game in Alaska in calendar year 1963, according to guide reports. Table 4 shows where the 697 hunters came from.

The average number of hunters per guided party was 1.8, and the average number of big game animals taken per party was 2.9. The vast majority of guided hunters reached the hunting area by aircraft (300, of 512 whose mode of transportation was reported); a substantial number (91) traveled by boat, while 38 utilized wheeled vehicles, 35 went in by tracked vehicle, 47 used horses and one hunter used a snow sled.

The 382 parties guided in 1963 hunted in every month but December and January. August drew 111 parties, September 92: 55 parties hunted in May, 49 in April, 28 in March, 26 in October, 9 in November, 6 in June, and 3 each in July and February. Table 5 shows the number of hunters hunting each species of big game, and the total number of each species taken.

The distribution and composition of the harvest of big game by guided hunters are shown in Table 6.

During calendar year 1963 when the "guided hunter" statistics in Tables 4, 5, and 6 were compiled, nonresident hunters were required to hire guides to hunt brown-grizzly and polar bear, and sheep, goat, and walrus. Many nonresidents hunted other species, of course; also, the guide reports were not complete: the figures on license and tag sales given in Table 7 thus provide in some ways a better picture of the hunting effort by nonresidents. The table also provides a comparison of resident and nonresident license sales.

Table 4. Number of Nonresident Hunters from Each State and Country who hunted in Alaska in 1963.

Alaska	100	Montana	2
Arizona	16	Nebraska	1
Arkansas	3	Nevada	6
California	76	New Jersey	21
Colorado	13	New Mexico	6
Connecticut	5	New York	15
Florida	4	North Carolina	4
Georgia	6	Ohio	28
Hawaii	2	Oklahoma	2
Idaho	12	Oregon	30
Illinois	26	Pennsylvania	29
Indiana	13	South Dakota	3
Iowa	9	Tennessee	5
Kansas	8	Texas	46
Louisiana	4	Utah	1
Maine	1	Virginia	5
Maryland	5	Washington	22
Massachusetts	8	Vermont	2
Michigan	33	Wisconsin	10
Minnesota	20	Wyoming	7
Missouri	26		
Africa	1	Italy	1
Austria	2	Liechtenstein	1
Belgium	2	Mexico	10
Canada	3	South America	3
Denmark	1	Spain	1
Germany	26	Switzerland	3

TOTAL NONRESIDENTS 697 *(four didn't hunt)

Table 5. Number of guided hunters hunting each species of big game in Alaska in 1963, and the total number of each species taken.

BIG GAME		
SPECIES	NO. HUNTING	NO. TAKEN
Brown bear	225	160
Grizzly bear	104	77
Polar bear	119	115
Sheep	224	138
Goat	45	37
Walrus	3	1
Moose	209	196
Caribou	216	201
Black bear	113	118
Glacier bear	2	-
Deer	5	3
Elk	1	1
Wolf	15	10
Wolverine	4	3
TOTAL HEAD OF BIG GAME		1,110

Table 6. Harvest By Guided Hunters, 1963, as Reported on Guide Reports.

Unit	Brown bear		Grizzly bear		Polar bear		Sheep	Goat		Walrus	Moose		Caribou		Black bear		Deer	Elk	Wolf	Wolverine
	♂	♀	♂	♀	♂	♀		♂	♀		♂	♀	♂	♀	♂	♀				
1	3	-	-	1	-	-	-	3	2	-	-	-	-	10	-	1	-	1	-	
3	-	-	-	-	-	-	-	-	-	-	-	-	-	16	2	-	-	1	-	
4	15	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	
5	2	2	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	
6	1	-	-	-	-	-	-	2	-	-	-	-	-	3	-	-	-	-	-	
7	-	-	-	1	-	-	3	11	2	-	9	-	-	10	3	-	-	-	-	
8	28	18	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	
9	63	21	1	1	-	-	-	-	-	-	29	-	30	-	-	-	-	-	-	
11	-	-	2	-	-	-	31	1	2	-	9	-	14	-	2	-	-	-	-	
12	2	-	12	5	-	-	56	2	-	-	15	-	29	-	4	-	-	-	1	1
13	1	-	13	3	-	-	32	3	-	-	54	5	75	1	25	1	-	-	-	-
14	-	-	2	-	-	-	4	3	-	-	20	-	4	-	1	1	-	-	-	-
15	-	-	-	-	-	-	4	2	1	-	11	2	-	-	5	5	-	-	-	-
16	-	1	6	-	-	-	5	2	-	-	8	-	4	-	14	2	-	-	1	-
17	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-
19	-	-	2	2	-	-	9	-	-	-	12	-	8	-	7	1	-	-	-	-
20	-	-	4	4	-	-	14	-	-	-	7	-	11	-	-	-	-	-	-	-
22	-	-	-	-	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	6	1	53	9	-	-	-	1	-	-	2	-	-	-	-	-	6	-
24	-	-	2	-	1	-	5	-	-	-	6	-	4	-	3	1	-	-	-	-
25	-	-	4	2	-	-	12	-	-	-	3	-	2	-	-	-	-	-	-	-
26	-	-	2	1	24	3	11	-	-	-	3	-	15	-	-	-	-	-	-	2
?	-	-	-	-	16	3	1	-	-	-	1	-	-	-	-	-	-	-	-	-
TOTAL	115	45	56	21	99	16	188	30	7	1	189	7	200	1	102	16	3	1	10	3

Table 7. Hunting license (Fiscal Year 1964) and big game tag (Calendar Year 1963) sales in Alaska.

License class	No. Sold	Species	No. Tags sold
Resident hunting	20,443	Caribou	923
Res. hunting & trapping	899	Black bear	870
Res. hunting & fishing	13,720	Moose	796
Res. hunting, fishing, & trapping	2,121	Deer	655
Res. trapping	800	Brown-Grizzly bear	475
Nonresident hunting	3,894	Sheep	360
Nonresident hunting & fishing	1,047	Goat	114
Nonresident hunting & trapping	5	Polar bear	110
		Elk	44
		Walrus	4

MEMORANDUM

State of Alaska

TO: [Alan M. Courtright
Game Biologist
ADFG, Juneau

File : 715

DATE : December 1, 1964

FROM: Ruby Haywood, Sec'y
Division of Game *RH*
ADFG, Juneau

SUBJECT: Fur export report break-
down by Regions

The following is a breakdown of the IBM fur export report which was compiled on 10/6/64 and covered period 10/1/63 to 9/30/64.

	S.E. Units 1-5	S.C. Units 6-16	I-A-W Units 17-26	Misc.	Total
Beaver	382	1923	8455	270	11,030
Mink	3848	3175	15420	41	22,484
Muskrat	3	6908	41911		48,822
Otter	535	639	1105	3	2,282
White Fox		135	999		1,134
Other Fox	8	465	510	16	999
Lynx	3	1133	3482	82	4,700
Marten	705	274	5180	13	6,172
Weasel	56	238	1145	2	1,441
Wolf	4	86	140	2	232
Wolverine	3	117	93	3	216
Coyote	11	29	29		69
Seal	1538	12508	2987	359	17,392
Squirrel		256	397		653