

MOOSE POPULATION RESEARCH
AND
MANAGEMENT STUDIES
IN YUKON

PROGRESS REPORT 1980



YUKON
MOOSE HARVEST DATA
FOR 1978
WITH A SUMMARY
OF HISTORICAL INFORMATION

APRIL 1980

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INTRODUCTION

This report is the first to address the "Annual Yukon Moose Harvest" In previous years the harvest was discussed in conjunction with all game species

It is intended that this report present information on the complete Yukon Moose Harvest for 1978 However the reader will find that there are large gaps in two areas 1) the General Hunting Licence holders (Trapline holders) and 2) Status Native harvest

In the future our new licensing system should alleviate the problem from trapline holders as their harvest information will be gathered by questionnaire mailings in place of licence returns

The matter of Native Harvest may remain an unknown factor until the settling of land claims at which time hopefully a solution to this problem will be attained At present a Status Indian is not obliged to hold a valid hunting licence before hunting

As in previous years information on non-resident hunting and harvest was obtained from reports submitted by each outfitter and hunter thus giving very accurate figures

A total of 4 260 big game resident hunters were mailed a questionnaire on November 3rd and two follow-up letters were sent to non-respondents on December 8th and January 12th The total response to the questionnaire was 74 58% as compared to 23 5% in 1977 38 2% in 1976 and 39 8% in 1975

In an effort to increase the response of resident hunters to the questionnaire six prizes (donated by local businesses) were offered on a draw basis to respondents. The prizes ranged from a Winchester Cherokee commemorative 30-30 Model 94 rifle to hunting knives.

To arrive at an estimate of harvest for the remaining 1,083 non-respondents, an extrapolation was done on a town group basis from the information received on the 3rd mailing thus assuming the percent success and hunter effort remained constant for respondents and non-respondents of the 3rd mailing.

The following is a summary of the available resident, non-resident trapper and native information on harvest prior to and including the 1978 hunting season.

RESULTS AND DISCUSSION

The results have been summarized in table or graphic form and in most cases are self explanatory. Discussions will therefore be limited however comparisons are made with data prior to 1978 wherever possible.

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RESIDENT HARVEST
DATA

The number of days hunting effort by resident hunters
is shaded in on a Game Management Subzone map with
various colours on a master map in the Whitehorse office
at a glance one gets a visual interpretation of the
information contained in Appendix I

It is not possible to reproduce the map for all copies
of this report, however, it can be seen at the Whitehorse office
for those interested

TABLE 1 Estimated resident moose harvest effort and success rates / Game Management Zone (for 1978)

<u>G M Z</u>	<u>Harvest</u>	<u>Effort (Days)</u>	<u>*Success Rate (% Days)</u>
1	0	85	0
2	36	1,490	2.42
3	34	1,330	2.56
4	92	2,830	3.25
5	80	2,680	2.99
7	165	3,795	4.35
8	50	2,883	1.73
9	95	2,600	3.65
10	79	2,050	3.85
11	111	2,520	4.40
Total	742	22,263	3.33%

Note For more detailed information on a subzone level refer to Appendix I

* Success Rate is the number of days effort that were successful in bagging an animal or in other terms the number of animals shot per 100 days effort

TABLE 2 Reported resident effort / G M Z / month (for 1978)

Game Management Zone	August	September	October	Total (Man days)
1	20	40	30	90
2	290	830	270	1,390
3	320	650	270	1,240
4	670	1,480	540	2,690
5	590	1,340	620	2,550
7	970	1,760	840	3,570
8	840	1,300	560	2,700
9	600	1 200	690	2,490
10	490	1,050	410	1,950
11	550	1,200	610	2 360
TOTAL	5,340	10,850	4,840	21,030

FIGURE 2 Percent resident effort / G M Z / month

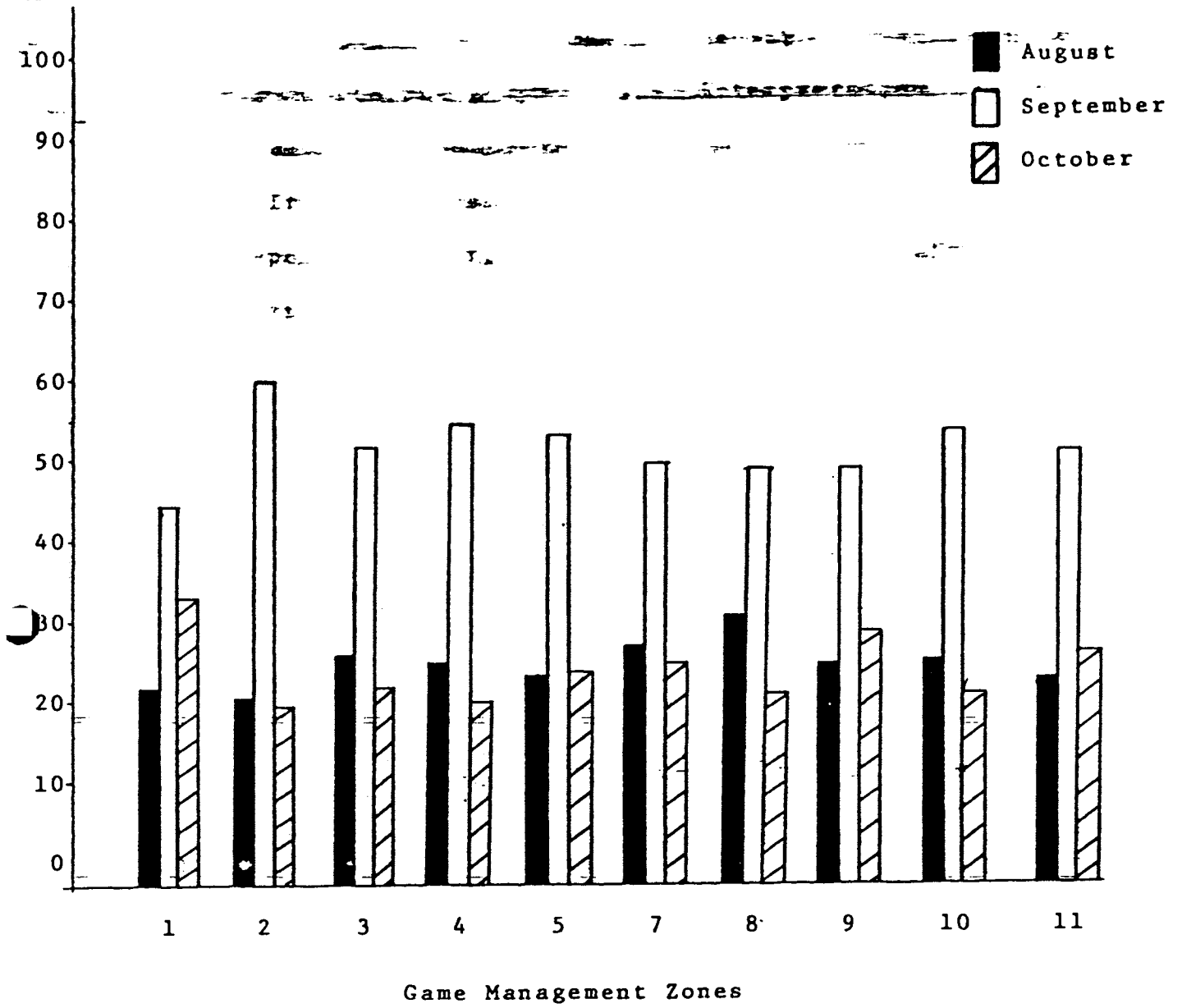
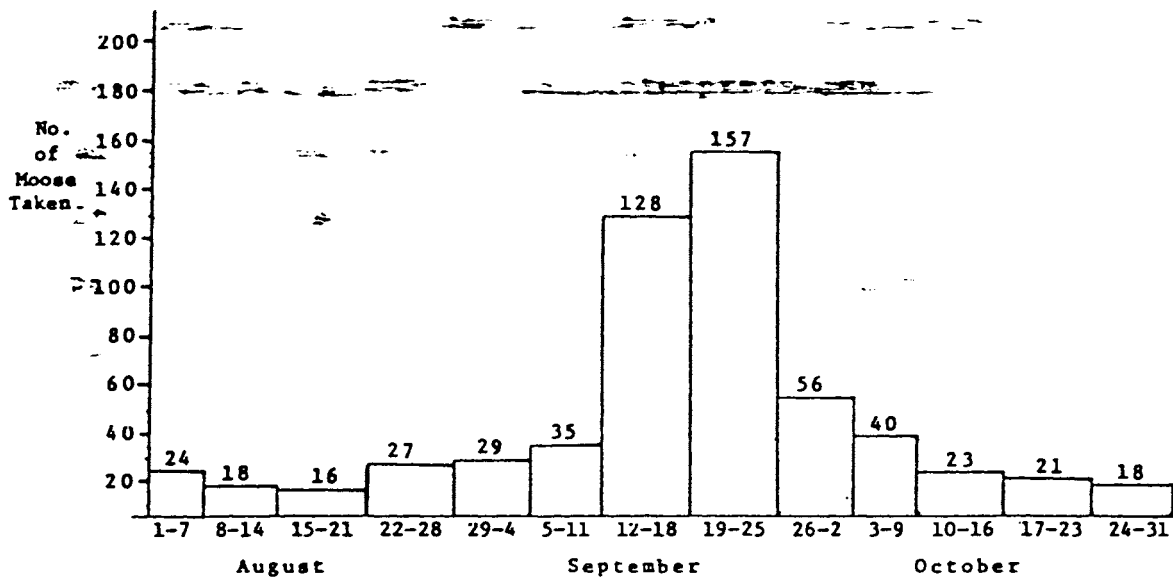
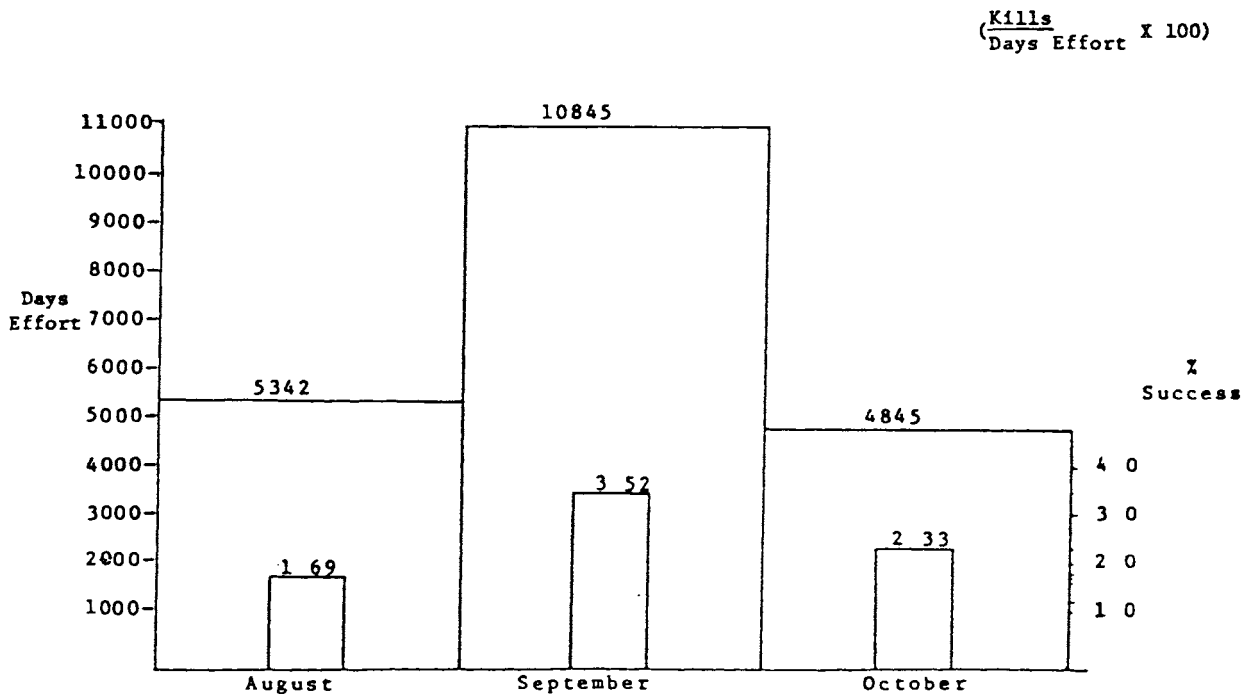


FIGURE 3 Reported resident moose harvest per week (1978)



Note. The total of 585 does not include 13 kills reported but with no dates of kill specified.

FIGURE 4 Reported resident moose hunting effort and success rate per month (1978)



(Information not available on weekly basis)

Note: Season on bull moose - August 1 to October 31 - all G.M.Z
 Season on antlerless moose - September 12 to September 25 - all G.M.Z

TABLE 3 Reported resident harvest success rates and number of seal holders by community

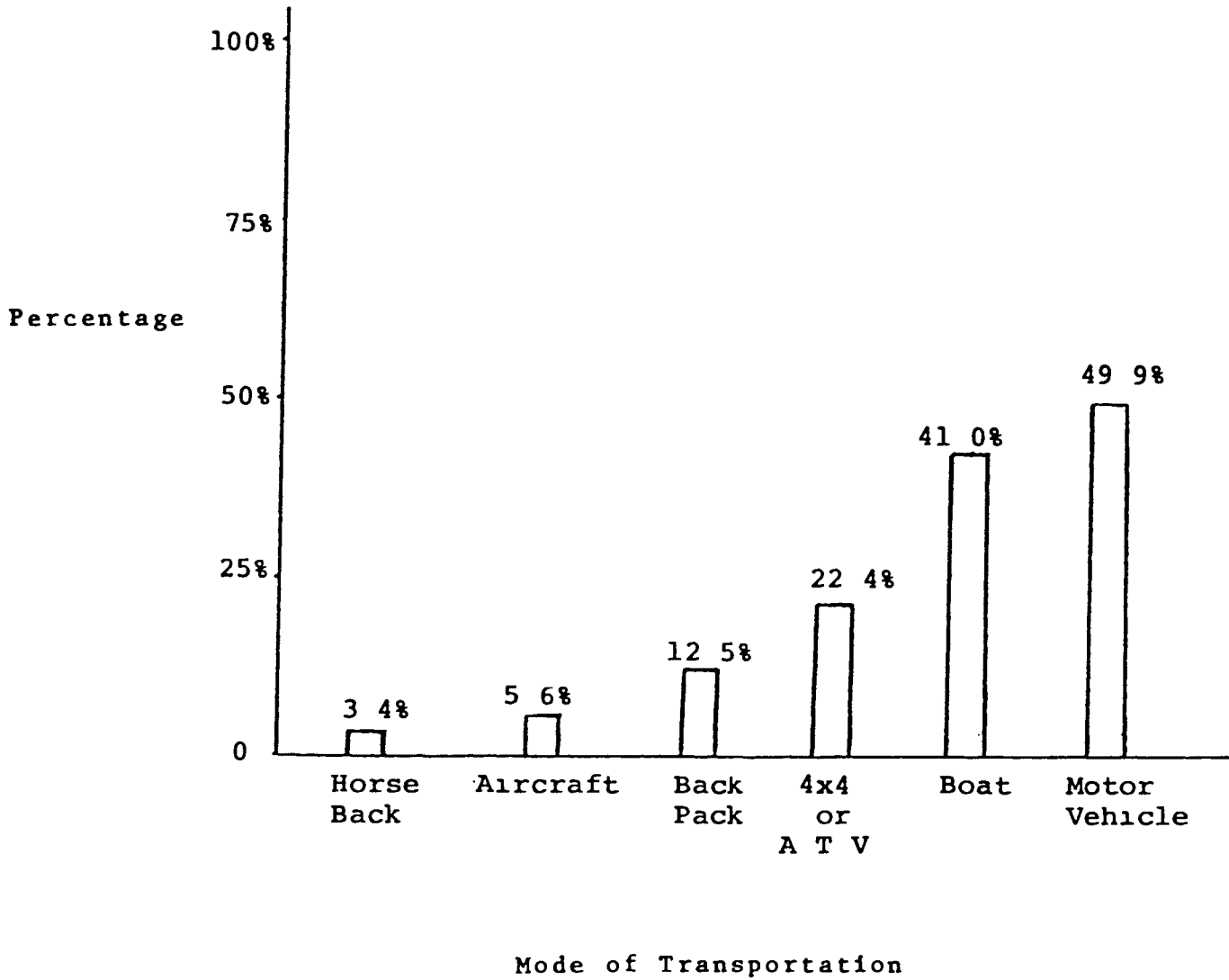
<u>TOWN</u>	<u>SEAL HOLDERS</u>	<u>RESPONDENTS THAT HUNTED (% OF SEAL HOLDERS)</u>	<u>REPORTED KILLS</u>	<u>% SUCCESS OF RESPONDENTS THAT HUNTED</u>
Dawson - Old Crow	256	154 (60)	34	22
Mayo & Interior	241	152 (63)	46	30
Faro - Ross River	296	191 (65)	61	32
Haines Junction	158	103 (65)	31	30
Whitehorse	2117	1287 (61)	311	24
Carcross - Teslin	182	126 (69)	43	34
Watson Lake	273	180 (66)	72	40
TOTAL	3523	2193 (62)	598	27

TABLE 4 Composition of estimated resident moose harvest / G M Z for 1978

GAME MANAGEMENT ZONE	% CALF (# HARVESTED)	% COW (# HARVESTED)	% BULL (# HARVESTED)
1	0 (0)	50 (1)	50 (1)
2	3 (1)	13 (5)	84 (31)
3	0 (0)	11 (4)	89 (32)
4	2 (2)	14 (13)	84 (76)
5	2 (1)	16 (12)	82 (61)
6	6 (9)	20 (33)	74 (123)
8	0 (0)	14 (8)	86 (47)
9	1 0 (1)	10 0 (10)	89 0 (86)
10	1 3 (1)	19 0 (15)	79 7 (63)
11	4 (4)	14 (15)	82 (88)
TOTAL	2 7 (19)	15 5 (116)	81 8 (608)

Note Antlerless moose hunting was permitted in all game management zones from September 12 through September 25 inclusive

FIGURE 5 Resident moose hunter's mode of transportation for 1978



Note Total % is greater than 100 as hunters use more than one method

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NON-RESIDENT
HARVEST DATA

TABLE 5 Non-resident moose harvest and success rates /
outfitting area for 1978

Outfitter Area #	Outfitter	Seals Purchased	Animals Taken	% Success
1	S. Reynolds	25	9	36
2	D. Low	9	1	11
3	P. Jensen	13	3	23
4	W. Brewster	10	7	70
5	J. Smith	14	6	43
6	A. Harman	33	13	39
7	L. Trimble	14	12	86
8	A. Mintz	6	4	67
9	W. Koser	25	14	56
10	R. Dickson	11	5	45
11	J. Ostashek	37	16	43
12	V. Hassard	10	8	80
13	V. Hotte	33	13	39
14	B. Desrosiers	10	3	30
15	C. Martin	15	8	53
16	J. Babala	21	15	71
17	K. Heynen	26	20	77
18	D. Callison	26	17	65
19	R. Hassard	14	7	50
20	Teslin	18	6	33
22	H. Klouth	20	9	45
		390	196	50.2%

This table may not express the true picture with respect to success rate for the following reasons

- many outfitters actually try to discourage their hunters taking moose
 - a) if they were sold a bear or sheep (etc) hunt
 - b) if weather is too warm to keep the meat
 - c) if moose are still in velvet (poor trophy)
- many hunters will purchase a moose seal because they are so inexpensive (\$3) even though they came to hunt another species and put little or no effort into hunting moose

1978 AND HISTORICAL DATA ON NON-RESIDENT
MOOSE HARVEST STATISTICS

TABLE 6A Total number of hunters

AREA		78	77	76	75	74	73	72	71	70	69	68	67	66	65
1	S Reynolds	27	30	22	26	29	29	28	29	39	31	22*	/	6	8
2	D Low	11	6	8	14	24	18	13	10	14	18	17	14	16	10
3	P Jensen	16	8	8	16	16	15	15	13	4	8	3	9	14	4*
4	W Brewster	14	13	12	16	13	10	12	9	10	9	8	5	/	7
5	J Smith	20*	17	19	9	19	18	17	11	22*	14	9	5	14	19
6	A Harman	35	16	1*	3	7	/	/	21	21	6	13	13	14	23
7	L Trimble	17	16	16	14	21	26	21	28	25	11*	9	14	5	/
8	A Mintz	6	5	8	12	19	18	9*	26	18	/*	7	1	/	5
9	W Koser	25	25	17	25	23	29	25	17	27	24	12	14	11	2*
10	R Dickson	13	12	10	10	10	9	8	9	7	9	11	13	9	4
11	J Ostashek	40	43	40	43	29*	31	20	22	22	28*	23	14	5	5
12	V Hassard	19	16	10	15	27	16	20*	10	17	12	13	11	7	6
13	V Hötte	33	34	26	29	31	31	30*	29	21	23	20	26	21	21
14	B Desrosiers	13	16	16	12	16	16	11	11	14	13	13	13	11	13
15	C Martin	20	17	11	13	26	25	23*	9	12	8	11	11	6	16
16	J Babala	32	25	26	25	25	27*	22	16	10*	16*	16	17	23	21
17	K Heynen	27	15	14	13	23	29	29	14	19	24	4	3*	23	14
18	D Callison	31	34	25	22	21	18	20	28	21	25*	26	25	23	36
19	R Hassard	15	16	19	10	17	19	17*	11	15	7	12	12	11	14
20	Teslin Outfitters	20	18	11	3	11	11	16	11	8	16	14	18	18	10
22	H Klouth	21	43*	19	30	28	28	33	20	22	32	14	25	18	15

1978 AND HISTORICAL DATA ON NON-RESIDENT
MOOSE HARVEST STATISTICS

TABLE 6B Moose harvested

AREA #	OUTFITTER	78	77	76	75	74	73	72	71	70	69	68	67	66	65
1	S Reynolds	9	10	12	10	12	17	17	16	14	11	9	/	1	5
2	D Low	1	1	1	3	2	7	0	5	2	4	3	3	4	1
3	P Jensen	3	4	4	6	8	4	7	6	2	6	1	4	5	1
4	W Brewster	7	4	6	7	6	7	6	4	5	7	5	5	/	6
5	J Smith	6	6	5	7	6	9	5	0	10	4	1	2	4	2
6	A Harman	13	11	0	1	5	/	/	5	9	3	8	9	5	11
7	L Trimble	12	9	13	14	19	20	11	18	15	6	3	4	2	/
8	A Mintz	4	3	4	7	9	8	0	9	3	/	2	1	/	3
9	W Koser	14	9	12	17	12	15	15	15	19	19	4	6	7	1
10	R Dickson	5	6	1	6	4	4	5	7	2	1	2	7	4	1
11	J Ostashek	16	14	14	18	14	13	3	8	8	14	9	2	3	2
12	V Hassard	8	8	4	3	11	6	2	2	5	3	6	0	2	2
13	V Hotte	13	13	6	3	15	12	13	12	7	5	9	14	13	11
14	B Desrosiers	3	2	3	0	2	5	0	0	2	2	6	2	2	2
15	C Martin	8	5	4	4	6	9	3	4	8	6	6	2	2	9
16	J Babala	15	10	8	5	5	10	6	4	1	9	6	4	12	12
17	K Heynen	20	5	8	10	20	18	23	8	9	19	3	3	13	5
18	D Callison	17	25	11	13	10	7	2	9	4	8	10	4	4	11
19	R Hassard	7	4	11	5	6	4	7	7	11	3	7	7	7	9
20	Teslin Outfitters	6	8	8	0	4	4	7	4	2	6	2	10	8	7
22	R Klouth	9	20	7	11	13	10	16	12	9	19	5	8	8	4

1978 AND HISTORICAL DATA ON NON-RESIDENT
MOOSE HARVEST STATISTICS

TABLE 6c Percent success

AREA	OUTFITTER	78	77	76	75	74	73	72	71	70	69	68	67	66	65
1	S Reynolds	33	33	55	39	41	59	61	55	36	36	41	/	17	63
2	D Low	9	17	13	21	8	39	0	50	14	22	18	21	25	10
3	P Jensen	19	50	50	38	50	27	47	46	50	75	33	44	36	25
4	W Brewster	50	31	50	44	46	70	50	44	50	78	63	100	/	86
5	J Smith	30	35	26	78	32	50	29	0	46	29	11	40	29	11
6	A Harman	37	69	0	33	71	/	/	24	43	50	62	69	36	48
7	L Trimble	71	56	81	100	91	77	52	64	60	55	33	29	40	/
8	A Mintz	67	60	50	58	47	44	0	35	17	/	29	100	/	60
9	W Koser	56	36	71	68	52	52	56	88	70	79	33	43	64	50
10	R Dickson	39	50	10	60	40	44	63	78	29	11	18	54	44	25
11	J Ostashek	40	33	35	42	48	42	15	36	36	48	39	14	60	40
12	V Haasard	42	50	40	20	41	38	10	20	29	25	46	0	29	33
13	V Hotte	39	38	23	10	48	39	43	41	33	22	45	54	62	52
14	B Desrosiers	23	13	19	0	13	31	0	0	14	15	46	15	18	15
15	C Martin	40	29	36	31	23	36	13	44	67	75	55	18	33	56
16	J Babala	47	40	31	20	20	37	27	25	10	56	38	24	52	57
17	K Heynen	74	33	57	77	87	62	79	57	47	79	75	100	57	36
18	D Callison	55	74	44	59	48	39	10	32	19	32	39	16	17	31
19	R Haasard	47	25	58	50	35	21	41	64	73	43	58	58	64	64
20	Teslin Outfitters	29	44	73	0	36	36	44	36	25	38	14	56	44	70
22	H Klouth	43	47	37	37	46	36	49	60	41	59	36	32	44	27

1 9 7 8
AND HISTORICAL DATA
COMPARISONS FOR
RESIDENT - NON-RESIDENT
MOOSE HUNTING

TABLE 7 Resident non-resident seals licence sales moose harvest and success rates 1973 1978

Year	R E S I D E N T					N O N - R E S I D E N T				
	Licence Sales	Moose Seals Issued	X Licence Holders With Moose Seals	Moose (1) Harvested	Success (1) Rates (%)	Licence Sales	Moose Seals Issued	X Licence Holders With Moose Seals	Moose (2) Harvested	Success (2) Rates (%)
1978	4 260	3 523	83	742	21 0	456	390	86	196	50
1977	3 870	3 341	86	1 025	30 7	423	356	84	177	50
1976	3 791	3 359	89	967	28 8	338	201	60	142	71
1975	3 714	3 331	90	879	26 4	381	*	*	152	*
1974	3 536	3 437	97	1 162	33 8	463	*	*	192	*
1973	3 568	3 193	89	1 079	33 8	422	*	*	193	*

Note: (1) Estimated from questionnaire returns

(2) From Outfitter reports

* Prior to 1976 non-residents were not required to buy seals before their hunts

The lower success rate in 1978 for resident hunters may be a result of the increased response rate to the questionnaire. Prior to 1978 the response was in the order of 15 to 40%; the 1978 response was 75%. The trend is for the more successful hunters to respond first; thus the higher the response the more unsuccessful hunters respond.

TABLE 8 Percent change in seal and licence sales 1973 - 1978

		Licences	Seals
RESIDENT	% Increase from 1973 to 1978	19 4%	10 3%
	Mean Increase/Year Between 1973 and 1978	3 9%	2 1%
NON-RESIDENT	% Increase from 1973 to 1978	8 1%	94.0%
	Mean Increase/Year Between 1973 and 1978	1 6%	47 0%

Note Information on seal sales to non-resident hunters not available prior to 1976 thus non-resident hunter seal figures represent change over 1976 to 1978 only

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AND HISTORICAL
MOOSE HARVEST DATA
FROM TRAPPERS

TABLE 9 General Hunting Licence (trappers) reported moose harvest trends

TOWN	1975-76	1976-77	1977-78	1978-79
Watson Lake	14	9 12	12	15
Old Crow	0*	22	1	43
Johnson s Crossing	1	5	3	3
Teslin	19	25	7	20
Whitehorse	22	13	13	13
Mayo	22	18	0	5
Dawson	16	0	0	11
Ross River	3	26	6	34
Faro	0	1	0	1
Carmacks	6	4	3	1
Tagish	2	3	3	1
Pelly Crossing	15	12	0	3
Haines Junction	7	2	16	9
Beaver Creek	2	0	1	3
Burwash	2	1	1	3
Carcross	3	1	1	1
Ft. Liard, N W T	14	9	9	14
Ft McPherson N W T	0	7	0	0
Aklavik, N W T	0	11	0	0
Total Licence Sales	518	518	653	528
# of Licences Returned	202	330	146	261
% Licences Returned	40%	64%	22%	49%
Total Reported Harvest	148	169	76	180
Total Estimated Harvest	380	265	340	364

Note Until the 1977 fall hunting season a trapper could take a second moose from August 1st through November 31st anywhere in the Yukon. Since then the second moose must come from the trapper's line during the extended (November) season.

As can be seen in the table the harvest reporting system has been very inconsistent and offers somewhat unreliable information.

As the 1976-77 season had the largest number of returned harvest affidavits (licence backs) the extrapolated Total Harvest Estimate is most likely more accurate than the other estimate numbers.

no returns

Native Harvest

Information on file at the Wildlife Branch addressing native harvest is in all but one instance, guess work

During the winter of 1974-74, the Mayo District Conservation Officer attempted to assess the local native take through personal interviews. The report states that of a possible 65 male hunters, only 36 attempted hunting. A total of approximately 45 moose were taken. However 22 of these were taken by trapline holders (whose harvest has been addressed on page 20). Thus of the non-trapping natives of the community 23 moose were killed.

It is impossible to do any sort of a meaningful extrapolation from this for the remainder of the Yukon considering differences in mobility, hunting effort, accessibility of hunting areas and varying ratios of General Hunting Licence Holders from one community to the next. Of the 291 licenced non trapper status natives 141 replied to the questionnaire reporting 37 kills.

SUMMARY

A total of 3 523 resident hunters purchased moose seals of which 2,697 (76.5%) responded to the questionnaire. Of the respondents, 2,193 (81.3%) reported having hunted, and taken 598 moose at a success rate of 27%.

An estimated harvest of the 1,083 non-respondents is an additional 145 kills.

Licensed status natives reported having taken 37 moose. An estimated trappers harvest is 364.

Additional estimated native harvest is 60 to 260.

Non-resident hunters harvested 196 moose.

Total harvest	598
	145
	364
	60
	<u>196</u>
	1 363 - minimum
	1 563 - maximum

APPENDIX I

Estimated Resident Moose Harvest,
Effort & Success Rates/Subzone
For 1978

(K = number killed
DE = days effort
%D S = % days success)

Appendix I Estimated resident moose harvest, effort and success rates / subzone for 1978

(K = number killed, DE = Days Effort % D S = % Days Success)

G.M.Z #1			G.M.Z #2			G.M.Z #3			G.M.Z #4			G.M.Z #5		
K	D E	% D.S	K	D E	% D.S	K	D E	% D.S	K	D E	% D.S	K	D E	% D.S
0	0		0	0		1	70	1 4	6	605	1 0	0	0	
0	0		0	0		8	240	3 3	5	45	11 0	0	0	
0	0		0	0		0	60	0 0	0	0		0	0	
0	0		0	0		3	20	15 0	3	170	1 8	1	60	1 7
0	0		0	0		0	0		6	250	2 4	1	100	1 0
0	0		0	0		1	20	5 0	2	110	1 8	1	70	1 4
0	0		0	0		8	320	2 5	0	0		0	0	
0	0		0	0		2	240	0 8	0	0		0	0	
0	0		0	0		0	40	0 0	1	50	2 0	0	0	
0	0		0	0		0	60	0 0	1	40	2 5	1	10	10 0
0	0		0	0		3	70	4 3	1	10	10 0	1	10	10 0
0	0		0	0		2	20	10 0	2	20	10 0	0	0	
0	0		0	0		4	80	5 0	3	40	7 5	0	0	
0	0		0	0		0	0		0	130	0 0	1	10	10 0
0	0		0	0		0	0		0	10	0 0	0	0	
0	0		0	0		0	0		0	0		0	10	0 0
0	0		0	0		0	20	0 0	0	0		1	30	3 3
0	0		0	0		2	30	6 7	0	0		2	30	6 7
0	0		0	40	0 0	0	20	0 0	0	0		3	10	30 0
0	0		0	40	0 0	0	20	0 0	0	0		5	70	7 1
0	0		0	10	0 0				0	0		2	170	1 2
0	0		0	10	0 0				0	0		1	20	5 0
0	0		0	10	0 0				2	80	2 5	0	10	0 0
0	0		1	40	2.5				0	0		1	50	2 0
0	0		0	10	0 0				0	0		0	0	
0	0		3	190	1 6				0	0		10	290	3 4
0	0		6	150	4 0				0	0		0	0	
0	0		4	150	2 7				0	0		3	40	7 5

G.M.Z #1			G.M.Z #2			G.M.Z #3			G.M.Z #4			G.M.Z #5		
K	D E	& D S	K	D E	& D S	K	D E	& D S	K	D E	& D S	K	D E	& D S
0	0		2	150	1 3				0	0		0	0	
0	0		0	0					0	0		2	40	5 0
									0	0		2	20	10 0
									0	0		1	10	10 0
									0	0		2	40	5 0
									0	0		2	30	6 7
									4	50	8 0	0	20	0 0
									2	20	10 0	0	20	0 0
									0	0		0	0	
									0	0		3	120	2 5
									2	70	2 9	0	0	
									4	80	5 0	1	140	0 7
									0	40	0 0	3	210	1 4
									4	120	3 3	2	90	2 2
									0	20	0 0	1	30	3 3
									10	180	5 6	1	90	1 1
									4	140	2 9	1	80	1 2
									9	130	6 9	12	320	3 8
									10	280	3 6	1	60	1 7
									0	10	0 0	0	10	0 0
									9	60	15 0	4	100	4 0
									2	70	2 9	8	260	3 1
0	5	0 0	1	30	3 3									
0	10	0 0	1	40	2 5									
0	70	0 0	1	50	2 0									

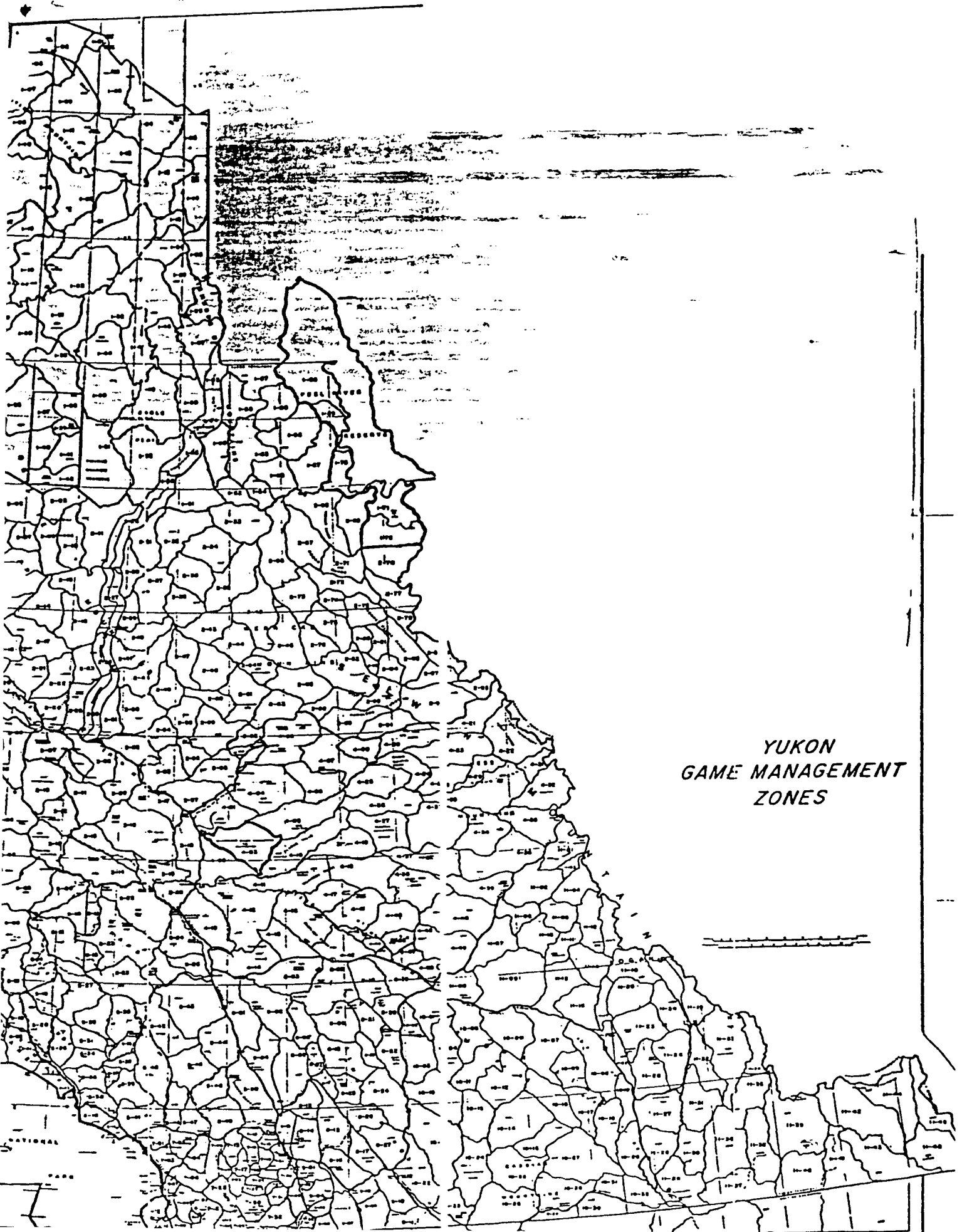
K = number killed, DE = Days Effort, %D S = % Days Success)

Line	G.M.Z #7			G.M.Z #8			G.M.Z #9			G.M.Z #10			G.M.Z #11		
	K	D E	% D S	K	D E	% D S	K	D E	% D S	K	D E	% D S	K	D E	% D S
1	5	170	2 9	0	80	0 0	6	210	2 9	2	40	5 0	4	100	4 0
2	1	30	3 3	0	100	0 0	1	50	2 0	2	40	5 0	5	190	2 6
3	18	370	4 9	0	70	0 0	3	150	2 0	5	150	3 3	0	0	
4	2	20	10 0	1	130	0 8	11	250	4 4	1	20	5 0	0	0	
5	5	100	5 0	1	60	1 7	3	260	1 1	1	30	3 3	0	0	
6	8	120	6 7	1	60	1 7	6	230	2 6	0	10	0 0	2	10	20 0
7	10	290	3 5	0	0		7	420	1 7	5	140	3 6	2	30	6 7
8	1	10	10 0	1	50	2 0	2	90	2 2	0	20	0 0	4	20	20 0
9	0	50	0 0	1	50	2 0	35	760	4 6	0	0		0	0	
0	2	50	4 0	1	90	1 1	7	90	7 8	7	160	4 4	0	0	
1	0	0		0	20	0 0	14	90	15 6	1	10	10 0	0	0	
2		50	4 0	1	43	2 3				0	0		0	0	
3	2	50	4 0	1	150	0 7				1	20	5 0	0	0	
4	2	40	5 0	0	90	0 0				0	20	0 0	0	0	
5	3	140	2 1	5	70	7 1				0	10	0 0	4	130	3 1
6	1	20	5 0	8	390	2 1				0	10	0 0	2	20	10 0
7	0	0		9	290	3 1				0	0		0	0	
8	11	260	4 2	1	40	2 5				1	10	10 0	0	0	
9	4	110	3 6	1	100	1 0				3	40	7 5	3	180	1 7
0	0	50	0	1	70	1 4				6	120	5 0	0	0	
1	15	230	6 5	1	50	2 0				7	130	5 4	15	150	10 0
2	3	50	6 0	3	320	0 9				13	340	3 8	17	180	9 4
3	1	5	20 0	1	50	2 0				6	220	2 7	15	140	10 7
4	14	230	6 1	4	280	1 4				1	20	5 0	2	120	1 7
5	0	0		0	0					0	20	0 0	6	150	4 0
6	9	200	4 5	1	40	2 5				2	100	2 0	5	290	1 7
7	18	270	6 7	7	190	3 7				0	0		6	160	3 7

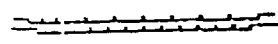
Line	G.M.Z #7			G.M.Z #8			G.M.Z #9			G.M.Z #10			G.M.Z #11		
	K	D E	% D S	K	D E	% D S	K	D E	% D S	K	D E	% D S	K	D E	% D S
8	1	40	2 5	50	2883	1.73%	95	2600	3 65%	6	140	4 3	3	90	3 3
9	0	0								2	60	3 3	3	110	2 7
0	4	60	6 7							1	80	1 3	0	10	0 0
1	10	310	3 2							1	30	3 3	2	150	1 3
2	3	100	3 0							5	70	7 1	4	250	1 6
										79	2050	3 85%			
3	1	70	1 4										1	10	10 0
4	0	30	0 0										0	0	
5	1	30	3 3										0	0	
6	8	240	3 3										0	0	
	165	3795	4 35%												
7													4	10	40 0
8													0	0	
9													0	0	
0													1	10	10 0
1													1	10	10 0
2													0	0	
3													0	0	
4													0	0	
5													0	0	
6													0	0	
													111	2520	4 4%

APPENDIX II

(For detailed map see 1979-80
Yukon Hunting Regulations Synopsis)



*YUKON
GAME MANAGEMENT
ZONES*



NATIONAL
PARKS

YUKON
CARIBOU HARVEST DATA
FOR 1978
WITH A SUMMARY OF
HISTORICAL INFORMATION

APRIL 1980

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WILDLIFE TECHNICIAN

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INTRODUCTION

This report is the first to address the "Annual Yukon Caribou Harvest" In previous years the harvest was discussed in conjunction with all game species

It is intended that this report present information on the complete Yukon caribou harvest for 1978 However, the reader will find that there are large gaps in two areas 1) the General Hunting Licence Holders (Trapline holders), and 2) Status Native Harvest

In the future our new licensing system should alleviate the problem from trapline holders as their harvest information will be gathered by questionnaire mailings in place of licence returns

The matter of Native Harvest may remain an unknown factor until the settling of Land Claims at which time hopefully a solution to this problem will be attained At present a Status Indian is not obliged to hold a valid hunting licence before hunting

As in previous years information on non-resident hunting and harvest was obtained from reports submitted by each outfitter and hunter, thus giving very accurate figures

A total of 4 260 big game resident hunters were mailed a questionnaire on November 3rd and two follow-up letters were sent to non-respondents on December 8th and January 12th The total response to the questionnaire was 74 58% as compared to 23 5% in 1977 38 2% in 1976 and 39 8% in 1975

In an effort to increase the response of resident hunters to the questionnaire, six prizes (donated by local businesses) were offered on a draw basis to respondents. The prizes ranged from a Winchester Cherokee commemorative 30-30 Model 94 rifle to hunting knives.

To arrive at an estimate of harvest for the remaining 1,083 non-respondents, an extrapolation was done on a town group basis from the information received on the 3rd mailing, thus assuming the percent success and hunter effort remained constant for respondents and non-respondents of the 3rd mailing.

The following is a summary of the available resident, non-resident trapper and native information on harvest prior to and including the 1978 hunting season.

RESULTS AND DISCUSSION

The results have been summarized in table or graphic form, and in most cases are self explanatory. Discussions will therefore be limited however comparisons are made with data prior to 1978 wherever possible.

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RESIDENT HARVEST

DATA

The number of days hunting effort by resident hunters has been shaded in on a Game Management Subzone map with various colours on a master map in the Whitehorse office. Thus at a glance one gets a visual interpretation of the effort information contained in Appendix I.

It is not possible to reproduce the map for all copies of this report, however it can be seen at the Whitehorse office for those interested.

TABLE 1 Estimated resident caribou harvest effort and success rates / Game Management Zone (for 1978)

<u>G M Z</u>	<u>Harvest</u>	<u>Effort (Days)</u>	<u>*Success Rate (% Days)</u>
1	5	144	3 47
2	15	344	4 36
3	1	12	8 33
4	27	865	3 12
5	12	420	2 86
**7	3	141	2 13
8	17	558	3 05
9	22	545	4 04
10	8	686	1 17
11	43	1,705	2.52
TOTAL	153	5,420	2.82%

Note. For more detailed information on a subzone level refer to Appendix I

* Success Rate is the number of days effort that were successful in bagging an animal or in other terms the number of animals taken per 100 days effort

** Although Zone 7 was closed to caribou hunting 145 days effort still appear This may be attributed to

- a) Status Indians that responded to questionnaires and could legally hunt the Zone
- b) Hunters that filled out the questionnaire improperly
- c) Hunters not realizing area was closed

TABLE 2 Reported Resident Effort / G M Z / Month (for 1978)

Game Management Zone	August	September	October	Total (Man Days)
1	24	57	49	130
2	40	168	72	280
3	3	4	2	9
4	24	371	175	570
5	60	176	91	327
7	55	54	36	145
8	182	257	80	519
9	87	195	164	446
10	149	227	209	585
11	309	706	491	1 506
TOTAL	933	2 215	1 370	4,518

FIGURE 2 Percent Resident Effort / G M Z / Month

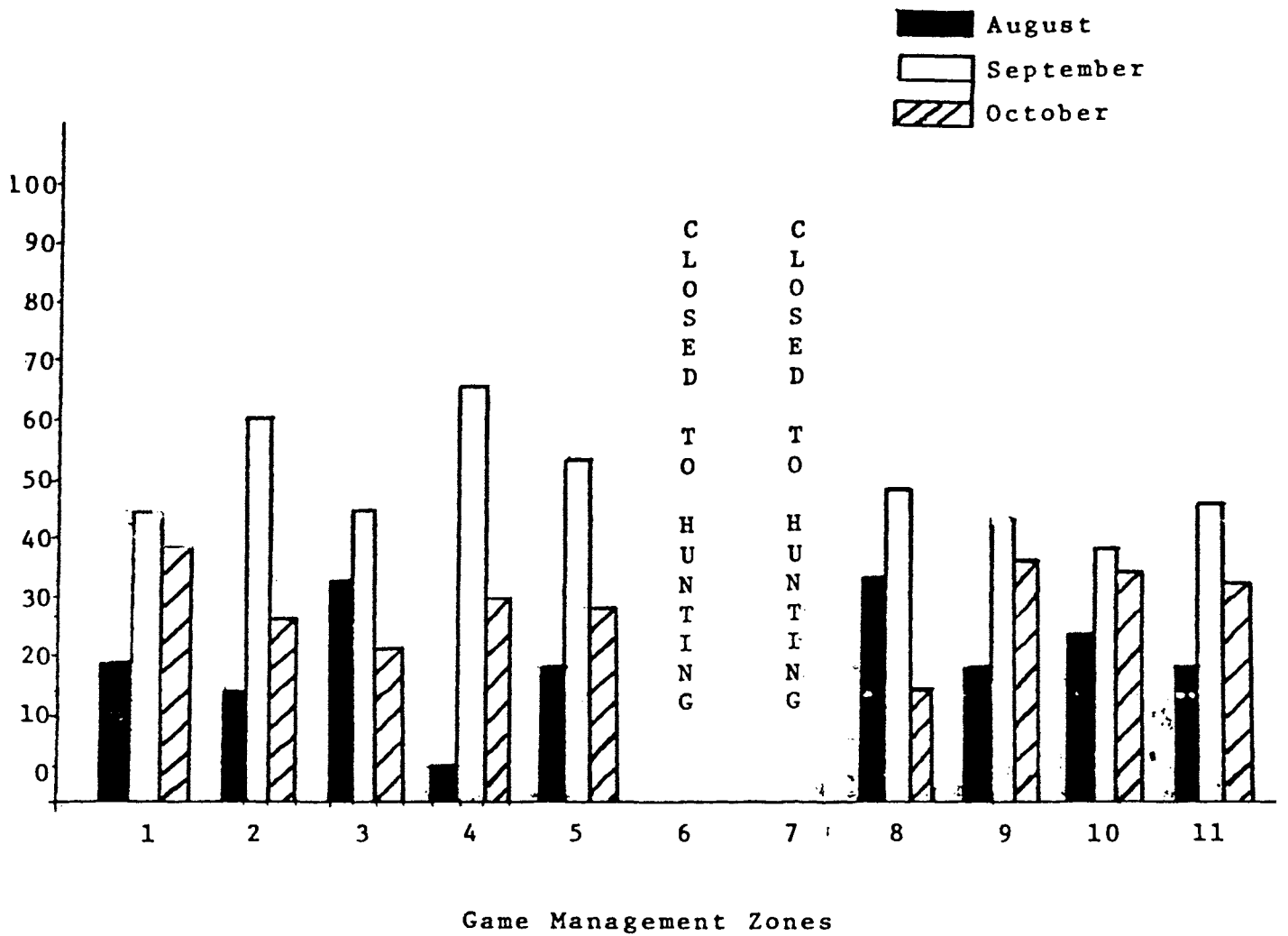
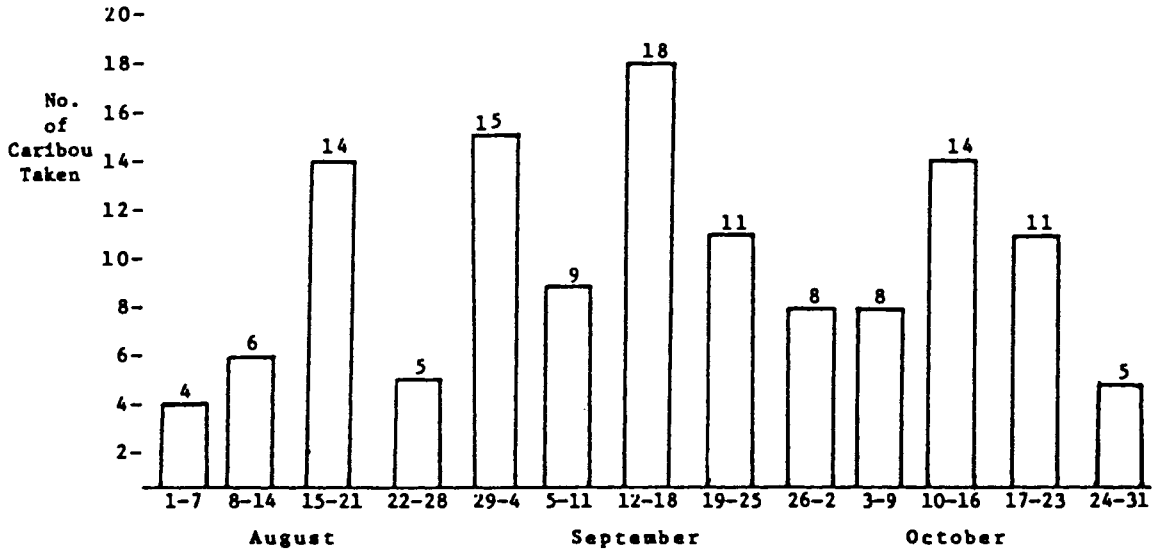
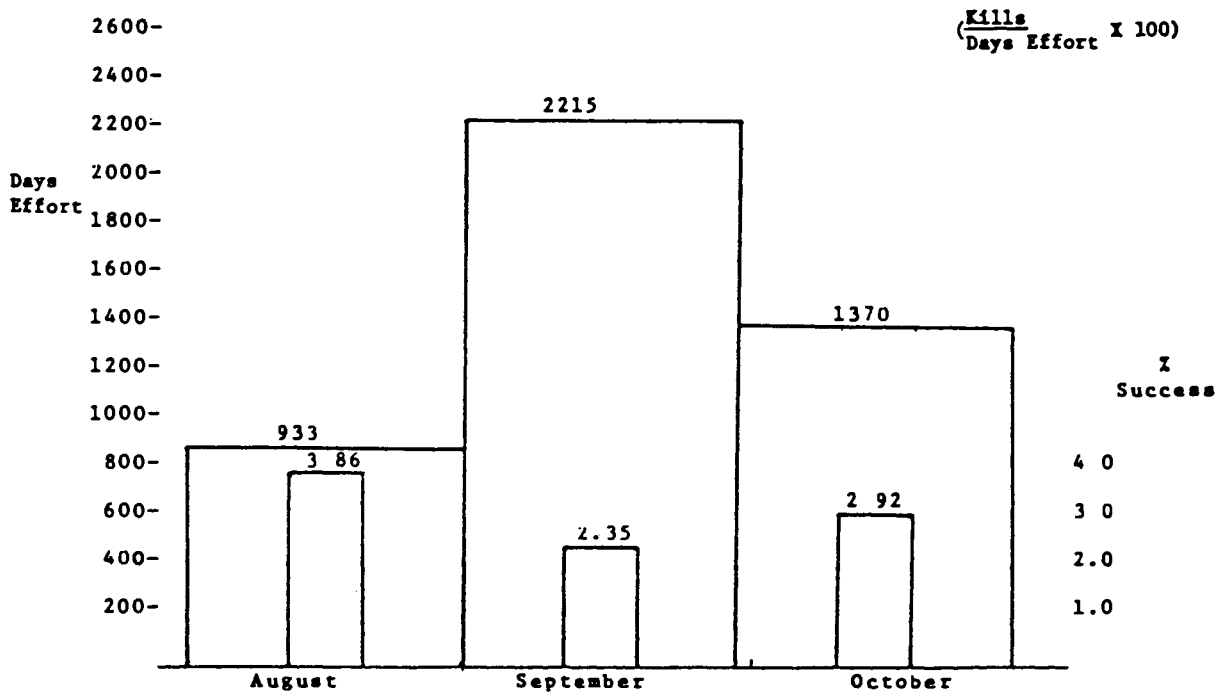


FIGURE 3 Reported resident caribou harvest per week (1978)



Note The total of 128 does not include three kills reported but with no dates of Kill specified.

FIGURE 4 Reported resident caribou hunting effort and success rate per month



(Information not available on weekly basis)

Note: Open season on all caribou with forked antlers from August 1st through October 31st in all areas of Yukon except G.M.Z. 7 which had no open season.

TABLE 3 Reported resident harvest, success rates and number of seal holders by community

Town	Seal Holders	Respondents that Hunted (% of Seal Holders)	Reported Kills	% Success of Respondents that Hunted
Dawson-Old Crow	112	44 (39)	7	16
Mayo & Interior	68	24 (35)	5	21
Faro-Ross River	248	113 (46)	30	27
Haines Junction	45	4 (9)	0	0
Whitehorse	991	298 (30)	62	21
Carcross-Teslin	96	31 (32)	7	23
Watson Lake	203	95 (47)	20	21
TOTAL	1,763	609 (35)	131	22

TABLE 4. Composition of estimated resident caribou harvest

Game Management Zone	% Cow	% Bull
1	0 (0)	100 (5)
2	6 (1)	94 (14)
3	100 (1)	0 (0)
4	18 (5)	82 (22)
5	8 (1)	92 (11)
7	66 (2)	33 (1)
8	11 (2)	89 (15)
9	24 (5)	76 (17)
10	44 (4)	56 (4)
11	40 (17)	60 (26)
TOTAL	25% (38)	75% (115)

Note During 1978 season there was no restriction on taking cows
All animals with forked antlers were legal (thus, calves
were protected)

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NON-RESIDENT
HARVEST DATA

TABLE 5 Non-resident caribou harvest and success rate / outfitting area for 1978

Outfitter Area #	Seals Purchased	Animals Taken	% Success
1	20	9	45
2	10	5	50
3	13	1	8
4	10	3	30
5	18	9	50
6	32	18	56
7	16	9	56
8	6	1	17
9	24	15	63
10	11	5	46
11	40	26	65
12	10	7	70
13	33	22	67
14	11	2	18
15	13	7	54
16	3	0	0
17	27	4	15
18	15	6	40
19	13	11	85
20	19	16	84
22	<u>21</u>	<u>10</u>	<u>48</u>
	365	186	50.9%

This table may not reflect the true picture with respect to success rates for the following reasons

- many outfitters actually try to discourage their hunters taking caribou
 - a) if they were sold a bear or sheep hunt etc
 - b) if weather is too warm to keep the meat
 - c) if caribou are still in velvet (poor trophies)
- many hunters will purchase a caribou seal because they are so cheap (\$3) even though they came to hunt another species and put little

1978 AND HISTORICAL DATA ON NON-RESIDENT
CARIBOU HARVEST STATISTICS

TABLE 6A Total number of hunters

AREA	OUTFITTER	Year													
		1978	77	76	75	74	73	72	71	70	69	68	67	66	65
1	S Reynolds	27	30	22	26	29	29	28	29	39	31	22*	/	6	8
2	D Low	11	6	8	14	24	18	13	10	14	18	17	14	16	10
3	P Jensen	16	8	8	16	16	15	15	13	4	8	3	9	14	4*
4	W Brewster	14	13	12	16	13	10	12	9	10	9	8	5	/	7
5	J Smith	20*	17	19	9	19	18	17	11	22*	14	9	5	14	19
6	A Harman	35	16	1*	3	7	/	/	21	21	6	13	13	14	23
7	L Trimble	17	16	16	14	21	26	21	28	25	11*	9	14	5	/
8	A Mintz	6	5	8	12	19	18	9*	26	18	/*	7	1	/	5
9	W Koser	25	25	17	25	23	29	25	17	27	24	12	14	11	2*
10	R Dickson	13	12	10	10	10	9	8	9	7	9	11	13	9	4
11	J Ostashek	40	43	40	43	29*	31	20	22	22	29*	23	14	5	5
12	V Hassard	19	16	10	15	27	16	20*	10	17	12*	13	11	7	6
13	V Hotte	33	34	26	29	31	31	30*	29	21	23	20	26	21	21
14	B Desrosiers	13	16	16	12	16	16	11	11	14	13	13	13	11	13
15	C Martin	/	17	11	13	26	25	23*	9	12	8	11	11	6	16
16	J Babala	32	25	26	25	25	27*	22	16	10*	16*	16	17	23	21
17	K Heynen	27	15	14	13	23	29	29	14	19	24	4	3*	23	14
18	D Callison	31	34	25	22	21	18	20	28	21	25*	26	25	23	36
19	R Hassard	15	16	19	10	17	19	17*	11	15	7	12	12	11	14
20	Tealin Outfitters	20	18	11	3	11	11	16	11	8	16	14	18	18	10
22	H Klouth	21	43*	19	30	28	28	33	20	22	32	14	25	18	15

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* indicates years when outfit was run by a new outfitter

1978 AND HISTORICAL DATA ON NON-RESIDENT
CARIBOU HARVEST STATISTICS

TABLE 6B Caribou harvested

AREA #	OUTFITTER	Year													
		1978	77	76	75	74	73	72	71	70	69	68	67	66	65
1	S Reynolds	9	8	4	6	9	9	8	9	4	3	0	/	0	3
2	D Low	5	0	0	2	6	3	1	2	4	4	5	4	10	4
3	P Jensen	1	2	1	1	5	5	5	5	3	3	0	6	8	2
4	W Brewster	3	3	5	7	3	6	4	4	5	6	7	4	/	6
5	J Smith	9	9	9	7	7	12	11	4	12	10	5	4	6	6
6	A Harman	18	11	1	1	6	/	/	15	15	3	10	12	10	17
7	L Trimble	9	8	12	14	18	17	6	18	12	3	4	8	0	/
8	A Hintz	1	1	2	2	5	9	3	14	6	/	5	1	/	4
9	W Koser	15	8	15	14	16	20	17	10	18	15	7	7	7	2
10	R Dickson	5	6	5	3	4	3	5	6	3	5	8	10	6	2
11	J Ostashek	26	25	13	14	8	6	2	5	0	2	3	0	0	0
12	V Hassard	7	3	4	4	7	4	1	3	7	4	9	5	2	3
13	V Hotte	22	16	17	13	16	16	18	18	16	14	13	12	14	11
14	B Desrosiers	2	3	7	3	6	7	3	6	5	3	5	5	7	8
15	C Martin	/	6	5	9	15	7	2	6	5	6	6	8	4	7
16	J Babala	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	K Heynen	4	5	2	5	5	10	10	0	8	0	0	0	0	0
18	D Callison	6	7	4	6	2	0	0	4	0	1	0	2	2	7
19	R Hassard	11	10	6	7	7	8	13	8	10	3	7	8	7	9
20	Teslin Outfitters	7	7	10	0	8	10	8	8	5	12	11	12	13	5
22	H Klouth	10	22	8	22	20	19	22	15	12	22	10	21	14	8

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1978 AND HISTORICAL DATA ON NON-RESIDENT
CARIBOU HARVEST STATISTICS

TABLE 6C Percent Success

AREA #	OUTFITTER	Year													
		1978	77	76	75	74	73	72	71	70	69	68	67	66	65
1	S Reynolds	33	27	18	23	31	31	29	31	10	10	0	/	0	38
2	D Low	45	0	0	14	25	17	8	20	29	22	29	29	63	40
3	P Jensen	6	25	13	6	31	33	33	39	75	38	0	67	57	50
4	W Brewster	21	23	42	44	23	60	33	44	50	67	88	80	/	86
5	J Smith	45	53	47	78	37	67	65	36	55	71	56	80	43	31
6	A Harman	51	69	100	33	86	/	/	71	71	50	77	92	71	74
7	L Trimble	53	50	75	100	86	65	29	64	48	27	44	57	0	/
8	A Mintz	17	20	25	17	26	50	33	54	33	/	71	100	/	80
9	W Koser	60	32	88	56	70	69	68	59	67	63	58	50	81	100
10	R Dickson	39	50	50	30	40	33	63	67	43	56	73	77	67	50
11	J Ostashek	65	58	33	33	28	19	10	23	0	7	13	0	0	0
12	V Hassard	37	19	40	27	26	25	5	30	41	33	69	46	29	50
13	V Hotte	67	47	65	45	52	52	60	62	76	61	65	46	67	52
14	B Desrosiers	15	19	44	25	38	44	27	55	37	23	39	39	64	62
15	C Martin	/	/	46	69	57	28	9	67	42	75	55	73	67	44
16	J Babala	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	K Heynen	15	33	14	39	22	35	35	0	42	0	0	0	0	0
18	D Callison	19	21	16	27	10	0	0	14	0	4	0	2	9	19
19	R Hassard	73	63	67	70	41	42	77	73	67	43	58	67	64	64
20	Teslin Outfitters	35	39	91	0	73	91	50	73	63	75	79	67	72	50
22	H Klouth	48	51	42	73	71	68	67	75	55	67	71	84	78	53

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AND HISTORICAL DATA
COMPARISONS FOR
RESIDENT - NON-RESIDENT
CARIBOU HUNTING

TABLE 7 Resident non-resident seals licence sales caribou harvest and success rates 1973 1978

Year	RESIDENT					NON-RESIDENT				
	Licence Sales	Caribou Seals Issued	% Licence Holders With Caribou Seals	Caribou(1) Harvested	Success(1) Rates (%)	Licence Sales	Caribou Seals Issued	% Licence Holders With Caribou Seals	Caribou(2) Harvested	Success(2) Rates (%)
1978	4 260	1 784	42	155	9	456	365	80	186	51
1977	3 870	1 633	42	213	13	423	332	79	160	48
1976	3,791	1 644	43	434	26	338	240	71	130	54
1975	3 714	1 601	43	240	15	381	*	*	141	*
1974	3 536	1 636	46	344	21	463	*	*	176	*
1973	3 568	1 517	43	319	21	422	*	*	176	*

Note: (1) Estimated from questionnaire returns

(2) From Outfitter reports

* Prior to 1976 non-residents were not required to buy seals before their hunts

The lower success rate in 1978 for resident hunters may be a result of the increased response rate to the questionnaire. Prior to 1978 the response was in the order of 15 to 40%; the 1978 response was 75%. The trend is for the more successful hunters to respond first; thus the higher the response the more unsuccessful hunters respond.

The high resident success rate in 1976 was to a great extent a result of large numbers of caribou showing up along the Dempster Highway during the hunting season at which time residents harvested approximately 420 animals.

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AND HISTORICAL
CARIBOU HARVEST DATA
FROM TRAPPERS

TABLE 9 General Hunting Licence (trappers) reported caribou harvest trends

TOWN	1975-76	1976-77	1977-78	1978-79
Watson Lake	9	9	6	8
Old Crow	0	661	159	603
Johnson s Crossing	2	1	1	1
Teslin	16	4	1	9
Whitehorse	4	7	8	4
Mayo	0	8	0	0
Dawson	3	2	1	5
Ross River	0	14	6	41
Faro	0	0	0	0
Carmacks	1	2	0	0
Tagiah	0	1	7	0
Pelly Crossing	0	7	0	0
Haines Junction	0	2	0	2
Beaver Creek	1	0	0	0
Burwash	0	1	0	0
Carcross	0	0	0	0
Ft. Liard N W T	0	1	0	0
Ft. McPherson N W T	0	163	0	0
Aklavik, N W T	0	52	0	0
Total Licence Sales	518	518	653	528
# of Licences Returned	202	330	146	261
% Licences Returned	40%	64%	22%	49%
Total Reported Harvest	36	931	189	673
Total Estimated Harvest	92	1,461	845*	1 362*
				1,081**

Note Until the 1977 fall hunting season, a trapper could take a second caribou from August 1st through January 31st anywhere in the Yukon. Since then the second caribou must come from the trapper s line during the extended (Nov 1st to Jan 31st) season

As can be seen in the table the harvest reporting system has been very inconsistent and offers somewhat unreliable information.

* The obvious high success rate of Old Crow hunters tends to exaggerate the overall estimated harvest.

** Total Estimated Harvest after considering success rates of Old Crow residents and others separately and adding their estimated harvest totals

Native Harvest

Two hundred and ninety-one Status Indians (non-trappers) obtained resident hunting licences during 1978. Of these, 141 (48%) responded to the questionnaire, reporting four kills

It is not possible to do a meaningful extrapolation for the total Indian population

SUMMARY

A total of 1,763 resident hunters purchased caribou seals of which 1,401 (79%) responded to the questionnaire. Of the respondents, 609 (44%) reported having hunted and taken 131 caribou at a success rate of 22%.

An estimated harvest of the 362 non-respondents is 24 additional kills.

Licensed Status Natives reported having taken four caribou.

Estimated trappers harvest is 1,081

Non-resident hunters harvested 186 caribou

TOTAL HARVEST

131
24
1 081
186

1,422 + unknown native harvest

APPENDIX I

Estimated Resident Caribou Harvest
Effort & Success Rates/Subzone
For 1978

(K = number killed
DE = days effort
ZD S = Z days success)

D
KILL NUMBERS (K) - DAYS EFFORT (E) - % DAYS SUCCESS (D S)

(Estimated)

Sub Zone	G M.Z #1			G M.Z #2			G M.Z #3			G.M.Z #4			G.M.Z #5		
	K	D E	% D S	K	D E	% D S	K	D E	% D S	K	D E	% D S	K	D E	% D S
1	0	0		0	0	—	0	0		8	190	4 2			
2							1	12	8 3	0	0				
3							0	0		0	0				
4															
5															
6															
7															
8															
9										0	20	0 0			
10										0	20	0 0			
11										0	0				
12										0	0				
13										0	0				
14										0	50	0 0			
15															
16													0	1	0 0
17													0	1	0 0
18															
19															
20							0	0					0	10	0 0
21													0	3	0 0
22	0	10	0 0												
23	1	5	20 0												
24	0	5	0 0										0	13	0 0
25	0	0											0	0	
26	0	0		1	50	2 0							0	90	0 0

D
KILL NUMBERS (K) - DAYS EFFORT (E) - % DAYS SUCCESS (D S)

(Estimated)

Sub one	G.M.Z #7			G M.Z #8			G M.Z #9			G M.Z #10			G.M.Z # 11		
	K	D E	% D S	K	D E	% D S	K	D E	% D S	K	D E	% D S	K	D E	% D S
27	0	3	0 0	2	90	2 2	22	545	4 04%	0	0		2	110	1 8
				17	558	3 05%									
28	0	5	0 0							2	40	5 0	0	30	0 0
29	0	0								1	30	3 3	0	30	0.0
30	0	20	0 0							0	10	0 0	0	10	0 0
31	0	5	0 0							0	0		3	120	2 5
32	0	0								0	50	0 0	4	230	1 7
										8	686	1 17%			
33	0	0											1	10	10 0
34	0	0											0	0	
35	0	0											0	0	
36	1	39	2 6										0	0	
	3	141	2 13%												
37													0	0	
38													0	0	
39													0	0	
40													0	0	
41													0	0	
42													0	0	
43													0	0	
44													0	0	
45													0	0	
46													0	0	
													43	1705	2 52%

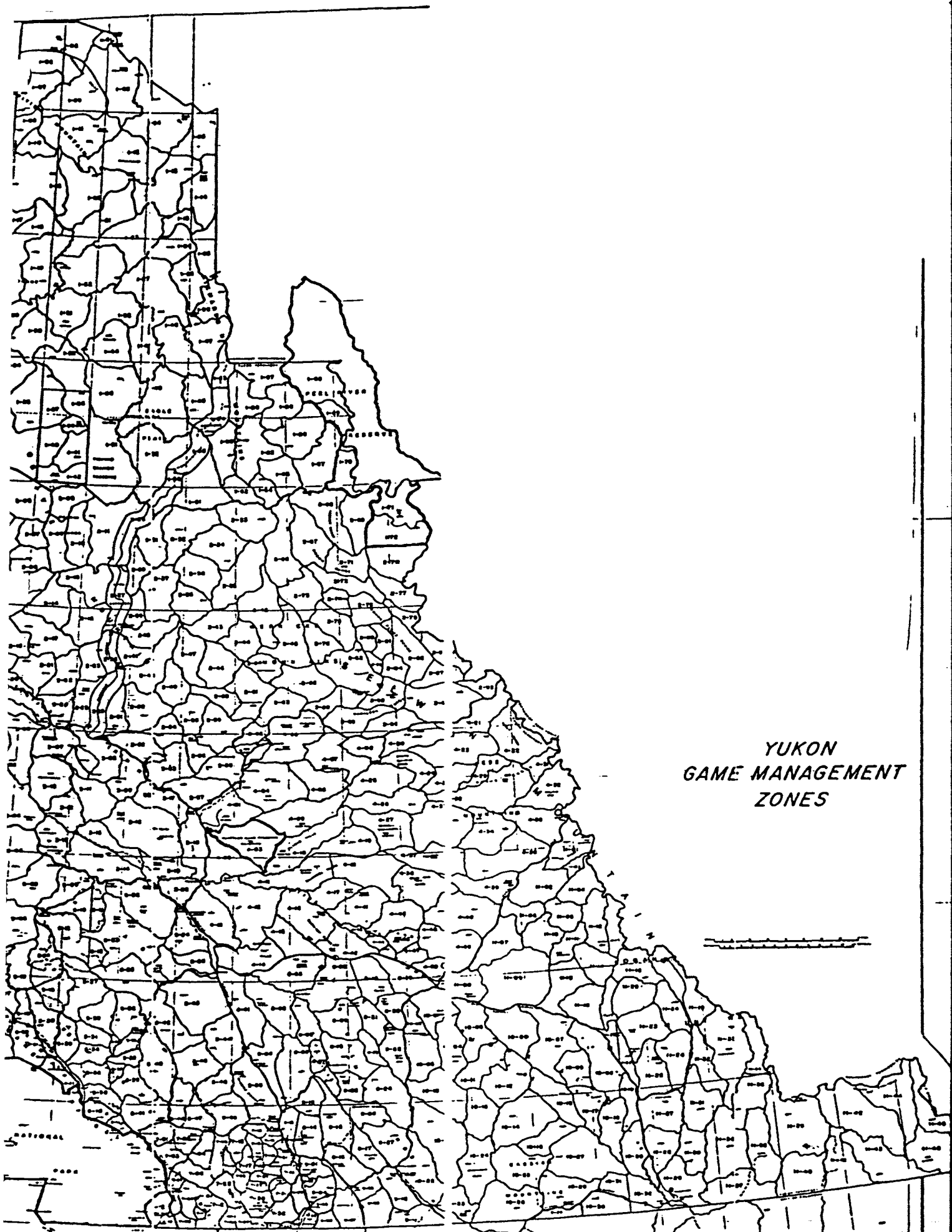
D
KILL NUMBERS (K) - DAYS EFFORT (E) - % DAYS SUCCESS (D S)

(Estimated)

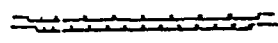
Sub one #	G.M.Z #7			G M.Z #8			G M.Z #9			G M.Z #10			G.M.Z #11		
	K	D E	% D.S	K	D E	% D S	K	D E	% D S	K	D E	% D.S	K	D E	% D S
1	0	3	0 0	0	0	—	1	40	2 5	0	40	0 0	5	90	5 5
2	0	0		0	0		1	10	10 0	0	40	0 0	3	60	5 0
3	0	3	0 0	4	52	7 7	2	30	6 6	0	60	0 0	0	0	
4	0	0		0	8	0 0	5	80	6 3	0	20	0 0	0	0	
5	0	3	0 0	0	2	0 0	4	130	3 1	0	30	0 0	0	0	
6	0	3	0 0	0	1	0 0	1	50	2 0	0	10	0 0	0	0	
7	0	0		0	0		1	70	1 4	5	180	2 8	0	10	0 0
8	0	0		0	1	0 0	3	30	10 0	0	10	0 0	1	10	10 0
9	0	0		0	1	0 0	4	100	4 0	0	0		1	5	20 0
0	0	3	0 0	2	44	4 5	0	0		0	10	0 0	0	0	
1	0	0		2	9	22 2	0	5	0 0	0	5	0 0	0	0	
2	0	5	0 0	0	1	0 0				0	0		0	0	
3	0	3	0 0	3	13	23 1				0	10	0 0	0	0	
4	0	3	0 0	0	1	0 0				0	10	0 0	0	0	
5	0	0		1	20	5 0				0	10	0 0	6	170	3 5
6	0	0		0	40	0 0				0	10	0 0	0	0	
7	0	0		0	35	0 0				0	0		0	0	
8	0	3	0 0	0	30	0 0				0	0	0 0	0	0	
9	0	0		0	30	0 0				0	0		3	140	2 1
0	0	0		1	120	0 8				0	10	0 0	0	0	
1	0	3	0 0	0	1	0 0				0	0		1	70	1 4
2	0	10	0 0	1	35	2 9				0	70	0 0	1	70	1 4
3	1	5	20 0	0	1	0 0				0	10	0 0	1	70	2 8
4	0	3	0 0	0	20	0 0				0	0		3	110	2 7
5	0	3	0 0	0	0					0	11	0 0	2	110	1 8
5	1	23	4 3	1	10	10 0				0	10	0 0	5	250	2 0

APPENDIX II

(For detailed map see 1979-80
Yukon Hunting Regulations Synopsis)



*YUKON
GAME MANAGEMENT
ZONES*



NATIONAL