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NATIVE HARVEST OF WILDLIFE
IN THE KEEWATIN REGION, NORTHWEST TERRITORIES
FOR THE PERIOD OCTOBER 1984 TO SEPTEMBER 1985

by

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This is the 9th Technical Report
from the Central and Arctic Region, Winnipeg

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PREFACE

This report is presented in fulfillment of Department of Supply and Services Contract DSS 25 S.T.A. 7135-05-0003 let to the Keewatin Wildlife Federation to conduct a wildlife harvest study in the Keewatin Region - Phase III. The work was done on behalf of the Federal Government departments of Environment Canada (Canadian Wildlife Service), Fisheries and Oceans (Western Region), and Indian Affairs and Northern Development; the Government of the Northwest Territories Department of Renewable Resources; and the Keewatin Wildlife Federation.

The report is accepted upon recommendation by the steering committee for the study made up of representatives of the agencies noted above (Appendix 1) and chaired initially by Mr. F. McFarland and subsequently by Ms. D. Stewart of the Department of Indian Affairs and Northern Development. The harvest study material is published under the auspices of the DFO technical report series by agreement of the steering committee in order to ensure that the data achieve a wide circulation, be accessible to the interested public, and be published in a standardized format generally recognized as appropriate for the dissemination of such information.

A report of the study in Inuktitut will also be published as an insert to the periodical Caribou News (Contact Caribou News c/o Nortext Information Design Ltd., Suite 200, 16 Concourse Gate, Nepean, Ontario, K2E 7S8).

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TABLE OF CONTENTS

	<u>Page</u>
ABSTRACT/RÉSUMÉ	v
INTRODUCTION	1
MATERIALS AND METHODS	1
General	1
Human resources and materials	1
Data collection and analysis	1
Data processing	2
RESULTS	2
DISCUSSION AND CONCLUSIONS	2
ACKNOWLEDGMENTS	4
REFERENCES	4

LIST OF TABLES

<u>Table</u>	<u>Page</u>
1 The reported harvest by Baker Lake hunters, expressed as numbers of animals, for the period October 1984 to September 1985	6
2 The reported harvest by Chesterfield Inlet hunters, expressed as numbers of animals, for the period October 1984 to September 1985	7
3 The reported harvest by Coral Harbour hunters, expressed as numbers of animals, for the period October 1984 to September 1985	8
4 The reported harvest by Eskimo Point hunters, expressed as numbers of animals, for the period October 1984 to September 1985	9
5 The reported harvest by Rankin Inlet hunters, expressed as numbers of animals, for the period October 1984 to September 1985	10
6 The reported harvest by Repulse Bay hunters, expressed as numbers of animals, for the period October 1984 to September 1985	11
7 The reported harvest by Whale Cove hunters, expressed as numbers of animals, for the period October 1984 to September 1985	12
8 The estimated harvest by Baker Lake hunters, expressed as numbers of animals, for the period October 1984 to September 1985	13
9 The estimated harvest by Chesterfield Inlet hunters, expressed as numbers of animals, for the period October 1984 to September 1985	14

<u>Table</u>	<u>Page</u>
10 The estimated harvest by Coral Harbour hunters, expressed as numbers of animals, for the period October 1984 to September 1985	15
11 The estimated harvest by Eskimo Point hunters, expressed as numbers of animals, for the period October 1984 to September 1985	16
12 The estimated harvest by Rankin Inlet hunters, expressed as numbers of animals, for the period October 1984 to September 1985	17
13 The estimated harvest by Repulse Bay hunters, expressed as numbers of animals, for the period October 1984 to September 1985	18
14 The estimated harvest by Whale Cove hunters, expressed as numbers of animals, for the period October 1984 to September 1985	19
15 The reported and estimated harvest by Baker Lake hunters expressed as numbers of animals	20
16 The reported and estimated harvest by Chesterfield Inlet hunters expressed as numbers of animals	21
17 The reported and estimated harvest by Coral Harbour hunters expressed as numbers of animals	22
18 The reported and estimated harvest by Eskimo Point hunters expressed as numbers of animals	23
19 The reported and estimated harvest by Rankin Inlet hunters expressed as numbers of animals	24
20 The reported and estimated harvest by Repulse Bay hunters expressed as numbers of animals	25
21 The reported and estimated harvest by Whale Cove hunters expressed as numbers of animals	26
22 Monthly theoretical kill factors for seven Keewatin communities derived using two methods of calculation	27
23 The harvest by species over the range of age for Baker Lake hunters	28
24 The harvest by species over the range of age for Chesterfield Inlet hunters	29
25 The harvest by species over the range of age for Coral Harbour hunters	30
26 The harvest by species over the range of age for Eskimo Point hunters	31

<u>Table</u>	<u>Page</u>
27 The harvest by species over the range of age for Rankin Inlet hunters . . .	32
28 The harvest by species over the range of age for Repulse Bay hunters . . .	33
29 The harvest by species over the range of age for Whale Cove hunters . . .	34
30 Age distribution of hunters for the seven Keewatin region communities for the period October 1984 to September 1984	35
31 Data on the distribution of hunters that were successful in obtaining a harvest expressed as a percent over the range of age of hunters for the period October 1984 to September 1985	36
32 Edible weight values in kilograms for harvested species as calculated from various sources	37
33 Reported and estimated edible weight values (kg) for harvested species for the period October 1984 to September 1985	38
34 Reported and estimated edible weight values for four major groups of animals harvested by Keewatin communities, October 1984 to September 1985.	41
35 Prices of commodities sold in each Keewatin community compared to country foods sold in Frobisher Bay (new name Iqaluit)	48

LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
1 Map of Keewatin District showing the seven communities surveyed during the harvest study and the zonal grid used to locate kills	49
2 Zone maps for the harvest years, October 1984 through to September 1985, showing the annual harvest of ringed seal by area in the Keewatin District	50
3 Zone maps for the harvest years, October 1984 through to September 1985, showing the annual harvest of common eider by area in the Keewatin District	51
4 Zone maps showing the monthly harvest of caribou by area for Baker Lake for the period October 1984 to September 1985	52

<u>Figure</u>	<u>Page</u>
5 Histogram showing the percent relative frequency of caribou harvested per hunt by hunters from the seven Keewatin communities for the period October 1984 to September 1985 . . .	54
6 Histogram showing the percent relative frequency of ringed seal harvested per hunt by hunters for the period October 1984 to September 1985 . . .	55
7 Histogram showing the percent relative frequency of snow geese harvested per hunt by hunters for the period October 1984 to September 1985 . . .	56

LIST OF APPENDICES

<u>Appendix</u>	<u>Page</u>
1 Members of the Steering Committee for the Keewatin Wildlife Federation Harvest Study	57
2 Calculation of estimated harvest	58

ABSTRACT

Gamble, R.L. 1987. Native harvest of wildlife in the Keewatin Region, Northwest Territories for the period October 1984 to September 1985. Can. Tech. Rep. Fish. Aquat. Sci. 1544: v + 59.

Harvest data were collected from Inuit hunters of the Keewatin Region for the period October, 1984 to September, 1985 as part of an ongoing collection of such information which began in September, 1981. The project has been run by an Inuit organization, the Keewatin Wildlife Federation, supported by funding provided through interested federal and territorial government departments. This report is an update and supplement to previous reports (No. 1282 - 1543) which cover the earlier years of the survey. Results were aggregated at a community level and fieldworkers continued to maintain a high level of performance as measured by participation of hunters in the study and a subjective judgement of the quality of data based on experience.

Key words: resource management; catch statistics; domestic harvest; monitoring; food resources; country foods; terrestrial mammals; marine mammals; birds; fish; computerized harvest study; Inuit organization.

RÉSUMÉ

Gamble, R.L. 1987. Native harvest of wildlife in the Keewatin Region, Northwest Territories for the period October 1984 to September 1985. Can. Tech. Rep. Fish. Aquat. Sci. 1544: v + 59 p.

Des données sur les prises/captures ont été recueillies auprès de chasseurs inuit de la région du Keewatin pour la période d'octobre 1984 à septembre 1985, dans le cadre d'un programme continu de collecte, entrepris en septembre 1981, dont un organisme inuit, la Keewatin Wildlife Federation, assure l'application. Le financement pour le projet vient des ministères fédéral et territorial en cause. Le rapport constitue une mise à jour et un complément aux rapports précédents (no. 1282 et 1543), qui portent sur les années antérieures visées par l'étude. Les résultats ont été groupés par collectivité. Le travail de collecte a été fait de façon excellente, comme l'indiquent la participation des chasseurs à l'étude et l'évaluation subjective de la qualité des données, fondée sur l'expérience.

Mots-clés: gestion des ressources; statistiques sur la prises; chasse/pêche de subsistance; contrôle; ressources alimentaires; ressources alimentaires indigènes; mammifères terrestres; mammifères marins; oiseaux; poisson; étude des prises/captures par ordinateur; organisation inuit.

INTRODUCTION

The collection of harvest data for this study began in September, 1981. Previous results have been published for the period October 1981 to September 1983 (Gamble 1984), and for the period October 1983 to September 1984 (Gamble 1987). This report covers the period October 1984 to September 1985. Throughout this report hunter, harvester, trapper and fisherman are used as synonyms. Hunter is defined in the MATERIALS AND METHODS section below.

The main objectives of the study as specified in the contract covering the period of this report were to:

- 1) determine by survey techniques the hunter kill (i.e. harvest) by Inuit living in District of Keewatin communities and outpost camps;
- 2) develop an approach for the collection of timely, statistically reliable data on wildlife harvesting which could be undertaken by an agency such as the Keewatin Wildlife Federation (KWF) upon completion of the preliminary study;
- 3) determine the number of Inuit directly participating in subsistence harvesting in each community and to compare the proportion of harvest taken by hunters of different ages;
- 4) provide an estimate of the harvest sufficient to determine a measure of its value to each community as food or income, and
- 5) analyze and publish the data collected in a timely report and scientifically acceptable format.

The study area (Fig. 1) remained the same as reported in Gamble (1984; 1987) and includes the entire Keewatin district of the Northwest Territories (approximately 386,000 km²). This region contains seven permanent communities. Listed alphabetically (the convention followed throughout this report) they are Baker Lake, Chesterfield Inlet, Coral Harbour, Eskimo Point, Rankin Inlet, Repulse Bay and Whale Cove. Current information about these communities including population can be obtained from the NWT Data Book (1984).

MATERIALS AND METHODS

GENERAL

For this survey period fieldworkers continued to try and include 100% of the region's hunters in their monthly data collection. The study design remained the same as originally described in Gamble (1984).

For the purpose of this study the term hunter includes all Inuit males and females over

the age of 16 who hunt (they may or may not have a NWT general hunting licence), Inuit youths under 16 who hunt regularly, and some long-term residents in the area of other ethnic origin who hunt. This latter group makes up less than 1% of the total hunters in the region and also accounts for less than 1% of the animals harvested.

Harvest data were aggregated at the community level. Separate coverage of outpost camps was not necessary because Inuit hunting from such locations visited their home communities frequently during the survey period and it was possible to include their harvest together with that of community based hunters on a consistent basis.

In accordance with contractual requirements, a steering committee (Appendix 1), as outlined in the preface, continued to provide guidance to the Harvest Study staff.

HUMAN RESOURCES AND MATERIALS

Fieldworkers were hired in each of the seven communities to interview hunters and collect data. Duties included explaining the project to hunters; distributing the study materials (calendars and field notebooks) to hunters; keeping an up to date list of hunters; interviewing hunters beginning on the first day of each month to collect harvest statistics for the previous month and recording this information on the appropriate data sheets; making sure the data collected were as accurate as possible; and promptly forwarding a monthly report following an interview period to the Project Biologist located at Rankin Inlet.

The Project Office organization remained the same as described by Gamble 1987 and no changes were made to the data sheets, calendars and field diaries distributed to fieldworkers and hunters.

DATA COLLECTION AND ANALYSIS

The system used to analyze harvest data and to arrive at estimates of the total hunter kill by community required several steps and remained the same as developed during the 1981-1983 preliminary study (Gamble 1984).

Beginning on the first day of each month fieldworkers began interviews so that they could divide the hunter population for each community into the survey categories defined below and list the number of animals killed per species for successful hunters who were interviewed. The monthly interval was defined as an interview period and covered the previous month of hunting. The fieldworker submitted this information to the Project Office where the data were summarized each month against a master list of hunters for individual communities and then entered into the computer. The numbers in some categories were subsequently adjusted the following month (i.e. the second month past the actual hunting episode) if acceptable reports

were submitted by fieldworkers on hunters who had been interviewed after a particular interview period had passed. Acceptable reports were determined through a subjective judgement by the Project Biologist based on his experience and a comparison of late reports with the reports submitted on time.

<u>Definition</u>	<u>Category</u>
1) The number of hunters who report taking a harvest during an interview period (i.e. successful).	A
2) The number of hunters who report they were not successful in taking a harvest during an interview period (i.e. unsuccessful).	B
3) The number of hunters who report they did not hunt during an interview period (i.e. didn't hunt).	C
4) The number of hunters who were out hunting during the interview period but who were not interviewed (i.e. hunted but not interviewed).	D
5) The number of hunters who were out of the area of the harvest survey during the interview period for any reason (i.e. out of hunt area).	E
6) The number of hunters within the harvest study area during the interview period whose activities were unknown (i.e. activities unknown).	F

It should be noted that the number of hunters in categories D and E for any month is usually known with a high degree of accuracy because of the small size of the communities involved and common local knowledge concerning the whereabouts of individuals, especially when it pertains to trips outside the local area.

Subsequently the summarized monthly information contained in categories A through F was used to calculate ratios of participation and hunter success (Gamble 1987). Participation ratio refers to the percent of hunters in each community who were interviewed as part of the study in relation to the total number of hunters who could have hunted each month. The hunter success ratio was applied to hunters in categories D and F to obtain an estimate of probable hunter success within these groups. The results for all categories were summed to get an estimate of total hunter success and to calculate the theoretical kill factor. This is the value by which the reported kill per species is multiplied to arrive at the estimated harvest.

For the purpose of this analysis four main assumptions were made:

- 1) The involvement of hunters in the harvest is the same for those whose activities are unknown as for those that are known.
- 2) The success ratio is the same for hunters who hunted in the unknown categories as for the known categories.
- 3) The probability of a kill of any individual animal is the same for all species when calculating the estimated harvest.
- 4) Reported kills are accurate.

Topolniski and Thompson (1984) suggested changes in calculating the theoretical kill factor as given by Gamble (1984). Appendix 2 compares the two methods and Table 22 gives the results for each month of the 1984-85 survey period for each community using both methods to calculate the monthly theoretical kill factors. As a consequence of this comparison the original formula given by Gamble (1984) was used to calculate estimated harvests for this report (see DATA PROCESSING and RESULTS below).

DATA PROCESSING

The study continued to use the programs described by Gamble (1984; 1987). No additional programs were developed in the fourth year of the study due to financial constraints. For instance in the case of Fig. 2, 3 and 4 these are currently produced by hand from printouts of the kill by zonal grid. The capability to provide such information would be greatly enhanced by the development of a graphics programme to automatically produce such figures from the data.

The participation file was modified to reflect the formula correction suggested by Topolniski and Thompson (1984) to determine the theoretical kill factor such that either method can be used to calculate this value. However no changes were made to the original methods of Gamble (1984) in order to maintain continuity and comparability of data between years. Variance between the calculated values in Table 22 using either method is small.

When referring to age the range of age classes are 0-15, 16-30, 31-45, 46-60, 61-75 and 76-99. The age group 76-99 was used as a category for hunters with unknown ages because only 8 hunters of known age fell within this group.

RESULTS

Tables 1 through 21 summarize the results from analysis of the data collected between October 1984 and September 1985. Tables 1 through 7 give the reported monthly harvest by species expressed as numbers of animals, and gives the percent of hunters reporting each month from the total number of known hunters in a given community (i.e. participation ratio). Tables 8 through 14 give the estimated monthly harvest by species expressed as numbers of animals, while Tables 15 through 21 give the annual reported and estimated harvests and also provide the mean monthly harvest per hunter together with the standard deviation about the mean.

Tables 1, 8 and 15 give information for the community of Baker Lake for a 12 month period. In this area caribou from three different herds are harvested and this causes a problem in assigning kills to a particular herd. Hunters are sometimes not specific enough about location to allow a particular kill to be assigned to a herd nor is it always known which herd is in a specific area over a given time period. In such cases the kill is put in the category of unknown

herd. In some seasons this problem is exacerbated because caribou from the three herds intermingle. However for the 1984-85 survey period the herds remained geographically distinct from one another. An interesting observation is that calves and adult females from the Wager Bay herd were harvested northeast of Baker Lake in an area not previously known as a calving ground for any herd. The muskox harvest of 5 animals reported for Baker Lake for this survey is incorrect because it is known from Government of the Northwest Territories (GNWT) records that the full quota of 12 animals was taken.

Tables 2, 9 and 16 give harvest levels for the community of Chesterfield Inlet for a 12 month period. Though the percent of hunters reporting is high, the reported harvest is low. One would expect comparable sized communities such as Whale Cove and Chesterfield Inlet to exhibit similar harvest levels given equal access to game. Public consultation and contact with the community Hunters and Trappers Association suggests that hunters support the study but many expressed concern that they are not being contacted. This problem has been noted for previous survey periods (Gamble 1987) and project staff believe that at Chesterfield Inlet the harvest statistics are not being collected correctly. Changes in fieldworkers and the training provided to them has not provided any significant change in results. This is an ongoing problem toward which efforts must continually be directed. The division of caribou into herds by location was treated in the same fashion as the preliminary report (Gamble 1984).

Tables 3, 10 and 17 give harvest levels for the community of Coral Harbour for a 12 month period. Although data collection was consistent for the first time during the study, some improvements in participation are still necessary. Medical problems of the original fieldworker for this survey period may have contributed to the situation. Such personnel factors are an example of contributing influences which are beyond the control of a study such as this that can affect the results obtained.

Tables 4, 11 and 18 give the harvest information for the community of Eskimo Point for a 12 month period. Over the course of the survey period Eskimo Point had three fieldworkers. This may have had an effect on the collection of harvest data particularly in May and June. Information collected for these months was taken later than normal and hunter recall may decrease over time. If so, experience indicates that Inuit hunters are more likely to underestimate than overestimate a harvest after an extended period of time has elapsed.

Tables 5, 12 and 19 give the data collected for a 12 month period at the community of Rankin Inlet. Collection effort was consistent and more than 80% of the hunters participated throughout the year unlike previous years (Gamble 1987). Commercial landings for Arctic charr were not reported with the domestic harvest for this survey period.

Tables 6, 13 and 20 give the data received from Repulse Bay for a 12 month period. At the

start of this survey period 84 hunters were identified from the community list as living in this community. This modified number was used to calculate theoretical kill factors (Table 22) rather than the figure of 90 hunters used for previous survey periods (Gamble 1984; 1987) because it is a more current estimate of the number of hunters residing in Repulse Bay. However emigration and to a lesser extent immigration of hunters continues to make it difficult to establish an accurate hunter list for this community. The participation ratio is still probably underestimated and the estimated harvest slightly overestimated because it appears there are slightly fewer hunters than the modified numbers used.

Tables 7, 14 and 21 show the harvest reported by the community of Whale Cove for a 12 month period. The participation ratio of hunters reporting was not available for October, 1984 because of the unannounced resignation of the community fieldworker which resulted in insufficient notice to insure continued collection of all data in October. Given these circumstances, the best estimate of that month's total community monthly harvest was taken to be the reported harvest following Gamble (1984).

Table 22 gives the monthly theoretical kill factors calculated following the procedure described in Appendix 2. Error is greatest for those values significantly larger than one as discussed by Gamble (1984). The values derived by using the original method described by Gamble (1984) were used to calculate estimated harvests rather than the modified method suggested by Topolniski and Thompson (1984) in Appendix 2. The original method was chosen for two reasons: 1) to facilitate comparison of the results between survey periods (i.e. Oct. 1981 to Sept. 1983 and Oct. 1983 to Sept. 1984), and 2) the observed error between the methods was very small.

Tables 23 through 29 give kill statistics for each species over the range of age groups for hunters for each community. The data on animals harvested by hunters of unknown ages were not included.

Table 30 gives the age distribution of hunters for the seven communities in the region for this survey period. Revisions to the hunter list used in previous survey periods have reduced the number of known hunters for each community when compared to Gamble (1984; Table 21) and Gamble (1987; Table 36).

Table 31 provides data on hunters who were successful in obtaining a harvest over the range of age of hunters. The distribution of successful hunters is expressed as a percentage over the range of ages by month and harvest year for each community and as a regional total. In this table there were no hunters reporting in the age category 0 to 15 for the community of Chesterfield Inlet.

Table 32 gives the estimated individual species values for edible weight (kg) used to calculate the total edible weights given in Tables 33 and 34. These individual values were

defined using the information sources noted in Gamble (1984, Table 16). The total reported edible weight values for the survey period are the sum of the annual species values. Therefore, totals from Table 33 and 34 differ slightly due to rounding off.

Table 35 provides a list of prices (circa January 1985) for country products sold at Frobisher Bay (new name Iqaluit) and meat and fish sold commercially in the Keewatin to assist in determining the importance of the resource economy to Inuit in this region. The assumption is that all edible products are consumed.

Figures 2, 3 and 4 are zone maps showing the harvest by location for the survey period of ringed seal and eider for all communities, and caribou for Baker Lake. The harvest of ringed seal and eider are presented annually while the harvest of caribou is shown monthly.

Figures 5, 6 and 7 show graphically the relative frequency of caribou, ringed seal and snow geese harvested per hunt for the survey period. Data were not available or sample sizes were too small to provide a histogram for particular species in some communities.

DISCUSSION AND CONCLUSIONS

Data collected during the September 1984 to October 1985 survey period were part of an ongoing collection of such information which began in September, 1981. Since the objectives of this study have not changed appreciably since the preliminary report (Gamble 1984) this report is simply an update and supplement to existing information. During this survey period the reporting rates have levelled off to a near maximum. It is difficult to foresee any improvement to the study which would increase overall reporting rates. The errors still inherent in the current study are primarily the results of influences such as financial constraints which are beyond the control of the project and internal problems such as fieldworker turnovers which will always exist and must be constantly monitored. Over the longer term hunters may suffer reporting fatigue but at present this is not evident.

In conclusion, the Keewatin Wildlife Federation Harvest Study has been successful in its attempt to elicit statistically valid harvest information from hunters using a survey technique common in a Euro-Canadian setting but intrinsically foreign to the Inuit. The preliminary work has laid the foundation for a process involving native people in the gathering of harvest statistics. This information will be important for jointly establishing with government management agencies a wildlife management rationale for the harvest of species which are of national interest and very particular cultural importance to Inuit. Continued cooperation amongst harvesters and wildlife managers will ensure the long term well being of wildlife in this region.

The results obtained during this survey period continue to maintain the high level of performance reported in previous survey periods (Gamble 1984, 1987).

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I thank the Keewatin Wildlife Federation, which was supportive of this study and provided valuable assistance at a regional and community level.

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Table 1. The reported harvest by Baker Lake hunters, expressed as numbers of animals, for the period October 1984 to September 1985.

Species	Category ¹	1984			1985										Sum
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		
<u>Caribou</u>															
Kaminuriak	M						104	46	44		64		104	362	
	F		2				87	42	34		14		61	240	
	C						31	24	9					64	
	U						4							4	
	Subtotal		2				226	112	87		78		165	670	
Beverly	M	330		146	179	164	25	13					194	1051	
	F	212		117	191	148	26	10					147	851	
	C	16		68	73	65	13	6					22	263	
	U	11		9	17	5	3	1						46	
	Subtotal	569		340	460	382	67	30					363	2211	
Wager	M	382	117	29		5		45	36	70	170	325	488	1667	
	F	240	102	2		9		33	42	57	63	227	325	1100	
	C	8	58	4		1		19	12	4	2	8	35	151	
	U	1	2							3	2			8	
	Subtotal	631	279	35		15		97	90	134	237	560	848	2926	
Total		1200	281	375	460	397	293	239	177	134	315	560	1376	5807	
Muskox ²							5							5 ²	
Polar Bear							1							1	
Grizzly Bear											1			1	
Arctic Fox		526	1090		758	585	216	112						3287	
Red Fox		2	2		1									5	
Wolf		11	9		7	16	18	1						62	
Canada Geese									479	143				622	
Snow Geese										30				30	
Ptarmigan		403												403	
Swan										2	4			6	
Canada Goose Eggs									151	262				413	
Goose Eggs									773	1678				2451	
Arctic Charr			42	2					100	56				200	
Lake Trout		196	144	192	181	43			264	590	333	59	25	2027	
Whitefish sp.		114	37	65	129	29				21	54	25	9	483	
Arctic Grayling			3							56	30			89	
Percent of Hunters Reporting		97.6	97.7	98.0	96.8	96.6	94.9	96.5	100.0	98.6	99.0	95.0	96.7		

¹Categories are as follows: M means male, F means female, C means calf, and U means unknown.

²The reported muskox harvest is incorrect because the full quota of 12 animals was taken.

Table 2. The reported harvest by Chesterfield Inlet hunters, expressed as numbers of animals, for the period October 1984 to September 1985.

Species	Category ¹	1984			1985										Sum
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		
<u>Caribou</u>															
Kaminuriak	M			10		7	30	3	2		2			54	
	F			10		2								12	
	U			6										6	
	Subtotal			26		9	30	3	2		2			72	
North of Chesterfield	M	9	4		3	7	9	5	11	2	7	3	14	74	
	F	8	10					3					2	23	
	U		3						5				3	11	
	Subtotal	17	17		3	7	9	8	16	2	7	3	19	108	
Other	M										2			2	
	Total	17	17	26	3	16	39	11	18	2	11	3	19	182	
Muskox						2								2	
Polar Bear						1	2		2					5	
Arctic Fox		24	8	18		5	6							61	
Wolf				4		4								8	
Ringed Seal		7			1		7		5	8	2	5	2	37	
Bearded Seal					1			1	1	1				4	
Walrus					2	4	2			7				15	
Beluga												13	15	28	
Canada Geese										27				27	
Snow Geese													8	8	
Arctic Charr											7			7	
Lake Trout		111						2	27	20				160	
Percent of Hunters Reporting ²		100.0	100.0	100.0	100.0	100.0	98.5	98.3	95.8	95.7	97.2	93.2	97.1		

¹See Table 1.

²Even though the participation ratio is consistently high for the survey period for this community individual hunters harvests may not have been completely recorded.

Table 3. The reported harvest by Coral Harbour hunters, expressed as numbers of animals, for the period October 1984 to September 1985.

Species	Category ¹	1984			1985										Sum
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		
<u>Caribou</u>															
Kaminuriak	M							3							3
	F							6							6
	Subtotal							9							9
Wager	M							4	21						25
	F							49	49						98
	U							29	28						57
	Subtotal							82	98						180
Coates	M										27	50			77
	F										3	18			21
	U										8	2			10
	Total										38	70			108
Southampton	M	7	2			4	1	6	12			3	2		37
	F	3						7							10
	U								2			3			5
	Subtotal	10	2			4	1	13	14			6	2		52
Other	M				1										1
	Total	10	2		1	4	1	104	112		38	76	2		350
Polar Bear		32	6		1		3	4	3						49
Arctic Fox			71	88	24	72	73	72	9						409
Wolf								4	3						7
Arctic Hare				2	2		1	7	1						13
Ringed Seal		46	13	15	73	58	19	22	23	68	55	14	30		436
Bearded Seal		2		2	5	3	8	2			4	11	5		42
Harbour Seal												3	2		5
Harp Seal		5								1	1	2			9
Walrus		2			1		1	2			4	7	7		24
Beluga		8									10	46	12		76
Canada Geese									23	15					38
Snow Geese									92	2302	16	233	11		2654
Geese										187	1				188
Eider		11											10		21
Ptarmigan		3	43	77	27	18	168	249	161	6			16		768
Goose Eggs										2396					2396
Arctic Charr		1099	91	346		127	318		108	662	570	633	10		3964
Lake Trout										4					4
Sculpin sp.										3					3
Percent of Hunters Reporting		99.1	61.9	62.9	68.6	79.0	93.3	94.3	78.1	59.0	62.9	75.2	86.7		

¹See Table 1.

Table 4. The reported harvest by Eskimo Point hunters, expressed as numbers of animals, for the period October 1984 to September 1985.

Species	Category ¹	1984			1985									
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May ²	June	July	Aug.	Sept.	Sum
<u>Caribou</u>														
Kaminuriak	M	21	36	42	43	38	21	46	49	51	69	94	185	695
	F	59	60	45	94	120	78	134	24	7	5	10	61	697
	C	35	36	5	18		5	3	5	2	23	30	24	186
	U	2	2	35	6	28	5	12	30	15	10	7		152
	Total	117	134	127	161	186	109	195	108	75	107	141	270	1730
Muskox						1								1
Polar Bear			13											13
Arctic Fox			226	216	27	45	200	159						873
Red Fox			7	1		1		2						11
Wolf			3	1			2	27	2					35
Arctic Hare									1					1
Lemming										7				7
Ringed Seal		122				3		1	31	38	7	3	7	212
Bearded Seal		10							4	4		3	1	22
Harp Seal										2				2
Walrus									1					1
Beluga											7	78		85
Canada Geese									99	39				138
Snow Geese									454	169				623
Geese									21	5				26
Eider		5		1							2			8
Ptarmigan		41			2			34	63	7				147
Goose Eggs									124	184				308
Arctic Charr		71	108	56	1		1	3	36	260	471	1663	354	3024
Lake Trout		20	22	26	4		15	212	372	51			23	745
Whitefish sp.				2										2
Northern Pike										1	1			2
Arctic Grayling		345						2	10	1			5	363
Other freshwater Fish			7	2					1	1			50	61
Percent of Hunters Reporting		86.3	94.5	79.2	93.8	89.3	90.1	95.2	88.3	89.4	82.3	95.2	94.3	

¹See Table 1.

²There were delays in the collection of harvest information for the months of May and June which may have contributed to under-reporting the actual harvest.

Table 5. The reported harvest by Rankin Inlet hunters, expressed as numbers of animals, for the period October 1984 to September 1985.

Species	Category ¹	1984			1985										Sum
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		
<u>Caribou</u>															
Kaminuriak	M	17	32	50	75	29	57	76	76	11	29	144	107	703	
	F	9	65	73	99	40	27	84	27	19		12	11	466	
	C							1				3	1	5	
	U		10		7					9	2	3		31	
	Subtotal	26	107	123	181	69	84	161	103	39	31	162	119	1205	
<u>North of Chesterfield</u>															
	M					37		2			2			41	
	Total	26	107	123	181	106	84	163	103	39	33	162	119	1246	
Muskox					2									2	
Polar Bear			1			1			4	2				8	
Arctic Fox			23	24		3	1							51	
Wolf					1	1	4	3	2	1				12	
Arctic Hare			1										7	8	
Arctic Ground Squirrel											1			1	
Ringed Seal		65	12	14	8	1	7	7	16	56	58	24	19	287	
Bearded Seal		9								2	4	5	4	24	
Harbour Seal		2								1				3	
Harp Seal													1	1	
Seal sp. (unknown)			2											2	
Walrus						1			1		1			3	
Beluga											2	29	5	36	
Canada Geese									47	190	1	1		239	
Snow Geese									132	258				390	
Geese										2				2	
Eider		5		3		3								11	
Unknown Ducks												5	1	6	
Ptarmigan		19	5			3		8	59	42			2	138	
Canada Goose Eggs										10				10	
Goose Eggs										64	70			134	
Arctic Charr		59	561	151	93	27	70	84	100	992	739	2298		5174	
Lake Trout			76		1	10	10		124	98			13	332	
Whitefish sp.			6											6	
Arctic Grayling			36											36	
Arctic Cod											6			6	
Sculpin sp.												10		10	
Percent of Hunters Reporting		84.7	82.1	86.0	86.7	85.4	91.4	94.8	87.6	87.3	88.6	93.5	96.2		

¹See Table 1.

Table 6. The reported harvest by Repulse Bay hunters, expressed as numbers of animals, for the period October 1984 to September 1985.

Species	Category ¹	1984			1985									
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Sum
<u>Caribou</u>														
Wager	M	50	37	21	15	33	38	37	54	29	91	91	108	604
	F	18	54	27	40	57	57	42	9	1	3	18	47	373
	C			1								16	23	40
	U	3	1	2	1		3			10	5	11	3	39
	Subtotal	71	92	51	56	90	98	79	63	40	99	136	181	1056
Southampton	M												1	1
	Total	71	92	51	56	90	98	79	63	40	99	136	182	1057
Muskox						1								1
Polar Bear			3	1		2								6
Arctic Fox		1	252	55	25	25	19	3						380
Red Fox			16		1		2							19
Wolf		1	6		2	7	7	8	3	2				36
Wolverine				1										1
Arctic Hare				1			1	1					5	8
Ringed Seal		89	13		12		3	14	129	60	107	48	149	624
Bearded Seal		1										8	3	12
Harp Seal		1					8	1			11	2		23
Walrus											1	13		14
Beluga											1	2		3
Narwhal											10	5		15
Canada Geese									5	8	1		2	16
Geese									3					3
Eider									3					3
Ptarmigan			3		2				14	3	1		20	43
Arctic Charr		457	318	250	217			23	140	332	753	597		3087
Lake Trout			93						49	76	6			224
Percent of Hunters reporting ²		67.9	72.6	70.2	79.8	66.7	73.8	73.8	67.9	61.9	72.6	72.6	75.0	

¹See Table 1.²It has not been possible to accurately establish the number of hunters for this community and the actual number of hunters may be less than that used by the harvest study. If so the participation ratio is slightly underestimated.

Table 7. The reported harvest by Whale Cove hunters, expressed as numbers of animals, for the period October 1984 to September 1985.

Species	Category ¹	1984			1985										Sum
		Oct. ²	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		
<u>Caribou</u>															
Kaminuriak	M	22	13	6	11	11	19	7	49	27	46	45	42	298	
	F	6	25	56	97	44	88	46	19	3	5	13		402	
	C		3	1	7	1				1	1	1	1	16	
	U			1				9	1		2			13	
	Total	28	41	64	115	56	107	62	69	31	54	59	43	729	
Muskox						2								2	
Polar Bear			5						1					6	
Arctic Fox			91	4		1								96	
Wolf		1				2	12							15	
Arctic Hare		1			1	1	3	1			4		2	13	
Ringed Seal		29	30	27	9	11	16	9	32	16	36	16	1	232	
Bearded Seal		17				1	1				2		3	24	
Beluga												17	2	19	
Canada Geese									64	11	19		5	99	
Snow Geese									52				29	81	
Geese									319	187	1		62	569	
Eider		8				3				1				12	
Ptarmigan						10								10	
Canada Geese Eggs											2			2	
Goose Eggs									117	570				687	
Arctic Charr		195	89	15	4	5			53	72	117	416	3	969	
Lake Trout			7					6	49	42	7	1		112	
Arctic Grayling									5					5	
Percent of Hunters reporting			68.0	85.9	87.5	93.5	93.3	87.3	83.9	82.5	98.3	98.3	100.0		

¹See Table 1.²Complete information on hunter participation was not collected for October. Only successful hunters were interviewed.

Table 8. The estimated harvest by Baker Lake hunters, expressed as numbers of animals, for the period October 1984 to September 1985.

Species	Category ¹	1984			1985									
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Sum
<u>Caribou</u>														
Kaminuriak	M						104	46	44		64		104	362
	F		2				87	42	34		14		61	240
	C						31	24	9					64
	U						4							4
	Subtotal		2				226	112	87		78		165	670
Reverly	M	330		146	179	164	25	13					194	1051
	F	212		117	191	148	26	10					147	851
	C	16		68	73	65	13	6					22	263
	U	11		9	17	5	3	1						46
	Subtotal	569		340	460	382	67	30					363	2211
Wager	M	382	117	29		5		45	36	70	170	325	488	1667
	F	240	102	2		9		33	42	57	63	227	325	1100
	C	8	58	4		1		19	12	4	2	8	35	151
	U	1	2							3	2			8
	Subtotal	631	279	35		15		97	90	134	237	560	848	2926
Total		1200	281	375	460	397	293	239	177	134	315	560	1376	5807
Muskox ²							5							5 ²
Polar Bear							1							1
Grizzly Bear											1			1
Arctic Fox		526	1090		758	585	216	113						3288
Red Fox		2	2		1									5
Wolf		11	9		7	16	18	1						62
Canada Geese									479	144				623
Snow Geese										30				30
Ptarmigan		403												403
Swan									2	4				6
Canada Goose Eggs									151	265				416
Goose Eggs									773	1695				2468
Arctic Charr			42	2					100	57				201
Lake Trout		196	144	192	181	43			264	596	333	59	25	2033
Whitefish sp.		114	37	65	129	29				21	54	25	9	483
Arctic Grayling			3							56	30			89

¹See Table 1.²The reported muskox harvest is incorrect because the full quota of 12 animals was taken.

Table 9. The estimated harvest by Chesterfield Inlet hunters, expressed as numbers of animals, for the period October 1984 to September 1985.

Species	Category ¹	1984			1985										Sum ²
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		
<u>Caribou</u>															
Kaminuriak	M			10		7	30	3	2		2			54	
	F			10		2								12	
	U			6										6	
	Subtotal			26		9	30	3	2		2			72	
North of Chesterfield	M	9	4		3	7	9	5	13	2	8	4	15	79	
	F	8	10					3					2	23	
	U		3						6				3	12	
	Subtotal	17	17		3	7	9	8	19	2	8	4	20	114	
Other	M										2			2	
	Total	17	17	26	3	16	39	11	21	2	12	4	20	296	
Muskox						2								2	
Polar Bear						1	2		2					5	
Arctic Fox		24	8	18		5	6							61	
Wolf				4		4								8	
Ringed Seal		7			1		7		6	9	2	6	2	40	
Bearded Seal					1			1	1	1				4	
Walrus					2	4	2			8				16	
Beluga												16	16	32	
Canada Geese										30				30	
Snow Geese													9	9	
Arctic Charr										8				8	
Lake Trout		111						2	31	22				166	

¹See Table 1.

²Even though a high participation ratio has been recorded for this community the estimate of harvest may not be as accurate as this would indicate because the reported harvest of some hunters may not have been complete.

Table 10. The estimated harvest by Coral Harbour hunters, expressed as numbers of animals, for the period October 1984 to September 1985.

Species	Category ¹	1984			1985										Sum
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		
<u>Caribou</u>															
Kaminuriak	M							3							3
	F							6							6
	Subtotal							9							9
Wager	M							4	27						31
	F							50	63						113
	U							30	36						66
	Subtotal							84	126						210
Coats	M										41	65			106
	F										5	23			28
	U										12	3			15
	Subtotal										58	91			149
Southampton	M	7	3			6	1	6	15			4	2		44
	F	3						7							10
	U								3			4			7
	Subtotal	10	3			6	1	13	18			8	2		61
Other	M				1										1
	Total	10	3		1	6	1	106	144		58	99	2		430
Polar Bear		32	9		1		3	4	4						53
Arctic Fox			109	123	29	115	76	74	12						538
Wolf								4	4						8
Arctic Hare				3	2		1	7	1						14
Ringed Seal		46	20	21	89	93	19	22	30	113	83	18	33		587
Bearded Seal		2		3	6	5	8	2			6	14	6		52
Harbour Seal												4	2		6
Harp Seal		5								2	2	3			12
Walrus		2			1		1	2			6	9	8		29
Beluga		8									15	60	13		96
Canada Geese									30	25					55
Snow Geese									118	3798	24	301	12		4253
Geese										309		1			310
Eider		11												11	22
Ptarmigan		3	66	108	33	29	175	254	206	10			17		901
Goose Eggs										3954					3954
Arctic Charr		1110	140	484		202	331		138	1093	867	817	11		5193
Lake Trout										7					7
Sculpin sp.										5					5

¹See Table 1.

Table 11. The estimated harvest by Eskimo Point hunters, expressed as numbers of animals, for the period October 1984 to September 1985.

Species	Category ¹	1984			1985										Sum
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May ²	June	July	Aug.	Sept.		
<u>Caribou</u>															
Kaminuriak	M	23	36	51	44	43	27	54	56	56	97	101	187	775	
	F	65	60	55	98	136	102	156	27	8	7	11	62	787	
	C	38	36	6	18		7	4	6	2	32	32	24	205	
	U	2	2	43	6	32	7	14	34	17	14	8		179	
	Total	128	134	155	166	211	143	228	123	83	150	152	273	1946	
Muskox						1								1	
Polar Bear			13											13	
Arctic Fox			227	263	28	51	262	186						1017	
Red Fox			7	1		1		2						11	
Wolf			3	1			3	32	2					41	
Arctic Hare									1					1	
Lemming										8				8	
Ringed Seal		133				3		1	35	42	10	3	7	234	
Bearded Seal		11							5	4		3	1	24	
Harp Seal										2				2	
Walrus									1					1	
Beluga											10	84		94	
Canada Geese									113	43				156	
Snow Geese									518	187				705	
Geese									24	6				30	
Eider		6		1						2				9	
Ptarmigan		45			2			40	72	8				167	
Goose Eggs									141	204				345	
Arctic Charr		78	109	68	1		1	4	41	289	659	1779	357	3386	
Lake Trout		22	22	32	4		20	248	424	57			23	852	
Whitefish sp.				2										2	
Northern Pike										1	1			2	
Arctic Grayling		376						2	11	1			5	395	
Other Freshwater Fish			7	2					1	1			51	62	

¹See Table 1.²There were delays in the collection of harvest information for the months of May and June which may have contributed to under-reporting of actual harvest.

Table 12. The estimated harvest by Rankin Inlet hunters, expressed as numbers of animals, for the period October 1984 to September 1985.

Species	Category ¹	1984			1985										Sum
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		
<u>Caribou</u>															
Kaminuriak	M	20	44	68	100	47	78	103	106	14	57	181	124	942	
	F	11	89	99	132	65	37	114	38	25		15	13	638	
	C							1				4	1	6	
	U		14		9					12	4	4		43	
	Subtotal	31	147	167	241	112	115	218	144	51	61	204	138	1629	
North of Chesterfield	M					60		3			4			67	
	Total	31	147	167	241	172	115	221	144	51	65	204	138	1696	
Muskox					3									3	
Polar Bear			1			2			6	3				12	
Arctic Fox			31	33		5	1							70	
Wolf					1	2	6	4	3	1				17	
Arctic Hare			1										8	9	
Arctic Ground Squirrel											2			2	
Ringed Seal		77	16	19	11	2	10	10	22	73	114	30	22	406	
Bearded Seal		11								3	8	6	5	33	
Harbour Seal		2								1				3	
Harp Seal												1		1	
Seal sp. (unknown)			3											3	
Walrus						2			1		2			5	
Beluga											4	37	6	47	
Canada Geese									65	247	2	1		315	
Snow Geese									184	335				519	
Geese										3				3	
Eider		6		4		5								15	
Ducks												6	1	7	
Ptarmigan		22	7			5		11	82	55			2	184	
Canada Goose Eggs										13				13	
Goose Eggs										83	137			220	
Arctic Charr		70	763	205	124	44	96	114	139	1290	1448	2873		7166	
Lake Trout			103		1	16	14		173	127			15	449	
Whitefish sp.			8											8	
Arctic Grayling			49											49	
Arctic Cod											12			12	
Sculpin sp.											13			13	

¹See Table 1.

Table 13. The estimated harvest by Repulse Bay hunters, expressed as numbers of animals, for the period October 1984 to September 1985.

Species	Category ¹	1984			1985										Sum ²
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		
<u>Caribou</u>															
Wager	M	69	49	29	18	46	48	48	75	44	125	121	141	813	
	F	25	72	38	48	79	72	55	13	2	4	24	61	493	
	C			1								21	30	52	
	U	4	1	3	1		4			15	7	15	4	54	
	Subtotal	98	122	71	67	125	124	103	88	61	136	181	236	1412	
Southampton	M												1	1	
	Total	98	122	71	67	125	124	103	88	61	136	181	237	1413	
Muskox						1								1	
Polar Bear			4	1		3								8	
Arctic Fox		1	337	77	30	35	24	4						508	
Red Fox			21		1		3							25	
Wolf		1	8		2	10	9	10	4	3				47	
Wolverine				1										1	
Arctic Hare				1			1	1					7	10	
Ringed Seal		123	17		14		4	18	180	90	145	64	195	850	
Bearded Seal		1										10	4	15	
Harp Seal		1					10	1			15	3		30	
Walrus											1		17	18	
Beluga											1	3		4	
Narwhal											14	7		21	
Canada Geese									7	12	1		3	23	
Geese									4					4	
Eider											4			4	
Ptarmigan			4		2				20	5	1		26	58	
Arctic Charr		631	426	350	260			30	195	501	1017	794		4204	
Lake Trout			125						68	115	8			316	

¹See Table 1.²There has been a problem in establishing the number of hunters in this community. The actual number of hunters may be less than that used by the harvest study. If so the estimated harvest is slightly high.

Table 14. The estimated harvest by Whale Cove hunters, expressed as numbers of animals, for the period October 1984 to September 1985.

Species	Category ¹	1984			1985										Sum
		Oct. ²	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		
<u>Caribou</u>															
Kaminuriak	M	22	17	6	11	11	20	7	52	28	46	45	42	307	
	F	6	33	58	97	44	91	46	20	3	5	13		416	
	C		4	1	7	1				1	1	1	1	17	
	U			1				9	1		2			13	
	Total	28	54	66	115	56	111	62	73	32	54	59	43	753	
Muskox						2								2	
Polar Bear			7						1					8	
Arctic Fox			120	4		1								125	
Wolf		1				2	12							15	
Arctic Hare		1			1	1	3	1			4		2	13	
Ringed Seal		29	40	28	9	11	16	9	34	17	36	16	1	246	
Bearded Seal		17				1	1				2		3	24	
Beluga												17	2	19	
Canada Geese									68	12	19		5	104	
Snow Geese									55				29	84	
Geese									338	197	1		62	598	
Eider		8				3				1				12	
Ptarmigan						10								10	
Canada Goose Eggs											2			2	
Goose Eggs									124	599				723	
Arctic Charr		195	117	16	4	5			56	76	117	416	3	1005	
Lake Trout			9					6	52	44	7	1		119	
Arctic Grayling									5					5	

¹See Table 1.

²Complete information on hunter participation was not collected for October. The harvest figures given in this table for October are the actual reported harvests from Table 7.

Table 15. The reported and estimated harvest for Baker Lake hunters expressed as numbers of animals. The monthly harvest per hunter and standard deviation about the mean are given.

Species	Category ¹	REPORTED HARVEST ² Oct. 1984 - Sept. 1985			ESTIMATED HARVEST ² Oct. 1984 - Sept. 1985		
		Total	Mean	S.D.	Total	Mean	S.D.
<u>Caribou</u>							
Kaminuriak	M	362	2	2	362	2	2
	F	240	2	1	240	2	1
	C	64	1	1	64	1	1
	U	4	2	1	4	2	1
	Subtotal	670	2	1	670	2	1
Beverly	M	1051	3	2	1051	3	2
	F	851	3	2	851	3	2
	C	263	2	1	263	2	1
	U	46	3	3	46	3	3
	Subtotal	2211	3	2	2211	3	2
Wager	M	1667	3	2	1667	3	2
	F	1100	2	2	1100	2	2
	C	151	2	1	151	2	1
	U	8	2	1	8	2	1
	Subtotal	2926	3	2	2926	3	2
	Total	5807	3	2	5807	3	2
Muskox ³		5 ³	1	0	5 ³	1	0
Polar Bear		1	1	0	1	1	0
Grizzly Bear		1	1	0	1	1	0
Arctic Fox		3287	11	7	3288	11	7
Red Fox		5	1	0	5	1	0
Wolf		62	2	2	62	2	2
Canada Geese		622	6	4	623	6	4
Snow Geese		30	5	1	30	5	1
Ptarmigan		403	22	10	403	22	10
Swan		6	3	1	6	3	1
Canada Goose Eggs		413	30	15	416	30	15
Goose Eggs		2451	22	16	2468	22	16
Arctic Charr		200	8	7	201	8	7
Lake Trout		2027	14	10	2033	14	10
Whitefish sp.		483	11	5	483	11	5
Arctic Grayling		89	4	2	89	4	2

¹See Table 1.

²See also Tables 1 and 8.

³The reported muskox harvest is incorrect because the full quota of 12 animals was taken.

Table 16. The reported and estimated harvest for Chesterfield Inlet hunters expressed as numbers of animals. The monthly harvest per hunter and standard deviation about the mean are given.

Species	Category ¹	REPORTED HARVEST ² Oct. 1984 - Sept. 1985			ESTIMATED HARVEST ² Oct. 1984 - Sept. 1985		
		Total ³	Mean	S.D.	Total ³	Mean	S.D.
<u>Caribou</u>							
Kaminuriak	M	54	3	2	55	3	2
	F	12	6	4	12	6	4
	U	6	6	0	6	6	0
	Subtotal	72	4	3	73	4	3
North of Chesterfield	M	74	2	1	80	2	1
	F	23	2	2	23	2	2
	U	11	4	1	12	4	1
	Subtotal	108	2	2	113	2	2
Other	M	2	2	0	2	2	0
	Total	182	3	2	188	3	2
Muskox		2	1	0	2	1	0
Polar Bear		5	1	0	5	1	0
Arctic Fox		61	8	5	61	8	5
Wolf		8	2	1	8	2	1
Ringed Seal		37	2	1	40	2	2
Bearded Seal		4	1	0	4	1	0
Walrus		15	2	1	16	2	1
Reluga		28	3	2	32	4	2
Canada Geese		27	14	4	30	15	4
Snow Geese		8	8	0	8	8	0
Arctic Charr		7	7	0	8	8	0
Lake Trout		160	13	13	166	14	13

¹See Table 1.

²See also Tables 2 and 9.

³Even though a high participation ratio has been recorded for this community the estimate of harvest may not be as accurate as this would indicate because the reported harvest of some hunters may not have been complete.

Table 17. The reported and estimated harvest by Coral Harbour hunters expressed as numbers of animals. The mean monthly harvest per hunter and standard deviation about the mean are given.

Species	Category ¹	REPORTED HARVEST ² Oct. 1984 - Sept. 1985			ESTIMATED HARVEST ² Oct. 1984 - Sept. 1985		
		Total	Mean	S.D.	Total	Mean	S.D.
<u>Caribou</u>							
Kaminuriak	M	3	2	1	3	2	1
	F	6	2	1	6	2	1
	Subtotal	9	2	1	9	2	1
Wager	M	25	2	1	31	3	2
	F	98	3	2	113	4	2
	Unknown	57	4	1	66	5	1
	Subtotal	180	3	2	210	4	2
Coates	M	77	4	4	106	6	6
	F	21	3	2	28	4	3
	Unknown	10	3	1	15	5	2
	Subtotal	108	4	3	149	5	5
Southampton	M	37	1	1	44	2	1
	F	10	2	2	10	2	2
	Unknown	5	1	0	7	1	0
	Subtotal	52	1	1	61	2	1
Other	M	1	1	0	1	1	0
	Subtotal	1	1	0	1	1	0
	Total	350	3	2	430	3	3
Polar Bear		49	1	0	53	1	0
Arctic Fox		409	8	11	538	10	14
Wolf		7	1	0	8	2	0
Arctic Hare		13	1	0	14	2	1
Ringed Seal		436	2	2	587	3	3
Bearded Seal		42	1	1	52	2	1
Harbour Seal		5	1	0	6	2	1
Harp Seal		9	1	0	12	2	1
Walrus		24	1	1	29	2	1
Beluga		76	2	1	96	2	2
Canada Geese		38	2	2	55	4	4
Snow Geese		2654	26	38	4253	41	70
Geese		188	21	21	310	34	35
Eider		21	5	3	22	6	3
Ptarmigan		768	9	10	901	11	11
Goose Eggs		2396	96	195	3954	158	321
Arctic Charr		3964	40	53	5193	53	72
Lake Trout		4	2	1	7	3	2
Sculpin sp.		3	3	0	5	5	0

¹See Table 1.

²See also Tables 3 and 10.

Table 18. The reported and estimated harvest for Eskimo Point hunters expressed as numbers of animals. The monthly harvest per hunter and standard deviation about the mean are given.

Species	Category ¹	REPORTED HARVEST ² Oct. 1984 - Sept. 1985			ESTIMATED HARVEST ² Oct. 1984 - Sept. 1985		
		Total	Mean	S.D.	Total	Mean	S.D.
<u>Caribou</u>							
Kaminuriak	M	695	2	2	775	3	2
	F	697	2	2	786	3	2
	C	186	2	2	205	2	2
	II	152	3	2	178	4	3
	Total	1730	2	2	1943	3	2
Muskox		1	1	0	1	1	0
Polar Bear		13	1	0	13	1	0
Arctic Fox		873	6	10	1018	8	13
Red Fox		11	2	2	12	2	2
Wolf		35	3	3	41	4	3
Arctic Hare		1	1	0	1	1	0
Lemming		7	7	0	8	8	0
Ringed Seal		212	3	6	235	3	6
Bearded Seal		22	2	1	24	2	1
Harp Seal		2	1	0	2	1	0
Walrus		1	1	0	1	1	0
Beluga		85	2	2	93	3	2
Canada Geese		138	4	4	156	5	4
Snow Geese		623	9	10	705	10	11
Unknown Geese		26	7	7	30	7	8
Eider		8	2	1	9	2	1
Ptarmigan		147	8	11	166	9	12
Goose Eggs		308	24	26	346	27	29
Arctic Charr		3024	21	26	3386	24	28
Lake Trout		745	9	15	852	11	17
Whitefish sp.		2	2	0	2	2	0
Northern Pike		2	1	0	3	1	0
Arctic Grayling		363	33	71	396	36	78
Other Freshwater Fish		61	12	19	62	12	19

¹See Table 1.

²See also Tables 4 and 11.

Table 19. The reported and estimated harvest for Rankin Inlet hunters expressed as numbers of animals. The monthly harvest per hunter and standard deviation about the mean are given.

Species	Category ¹	REPORTED HARVEST ² Oct. 1984 - Sept. 1985			ESTIMATED HARVEST ² Oct. 1984 - Sept. 1985		
		Total	Mean	S.D.	Total	Mean	S.D.
<u>Caribou</u>							
Kaminuriak	M	703	3	2	943	4	2
	F	466	3	2	637	4	3
	C	5	1	0	7	1	0
	U	31	3	2	42	4	3
	Subtotal	1205	3	2	1629	4	3
North of Chesterfield	M	41	4	3	67	6	5
	Total	1246	3	2	1696	4	3
Muskox		2	1	0	3	1	0
Polar Bear		8	1	0	11	1	0
Arctic Fox		51	3	2	70	4	3
Wolf		12	1	0	17	2	1
Arctic Hare		8	3	2	9	3	3
Arctic Ground Squirrel		1	1	0	2	2	0
Ringed Seal		287	3	2	405	4	4
Bearded Seal		24	2	1	32	2	1
Harbour Seal		3	2	1	4	2	1
Harp Seal		1	1	0	1	1	0
Seal sp. (unknown)		2	2	0	3	3	0
Walrus		3	1	0	5	2	0
Beluga		36	2	2	46	3	2
Canada Geese		239	7	8	316	10	11
Snow Geese		390	13	14	519	17	19
Geese		2	2	0	3	3	0
Eider		11	4	1	15	5	1
Ducks		6	3	2	8	4	3
Ptarmigan		138	9	10	184	12	14
Canada Goose Eggs		10	10	0	13	13	0
Goose Eggs		134	34	13	220	55	23
Arctic Charr		5174	51	83	7165	71	109
Lake Trout		332	8	9	450	11	12
Whitefish sp.		6	6	0	8	8	0
Arctic Grayling		36	18	3	49	25	4
Arctic Cod		6	5	0	12	12	0
Sculpin sp.		10	10	0	13	13	0

¹See Table 1.

²See also Tables 5 and 12.

Table 20. The reported and estimated harvest for Repulse Bay hunters expressed as numbers of animals. The monthly harvest per hunter and standard deviation about the mean are given.

Species	Category ¹	REPORTED HARVEST ² Oct. 1984 - Sept. 1985			ESTIMATED HARVEST ² Oct. 1984 - Sept. 1985		
		Total	Mean	S.D.	Total ³	Mean	S.D.
<u>Caribou</u>							
Wager Bay	M	604	2	2	813	3	3
	F	373	2	1	492	3	2
	C	40	2	2	53	3	2
	U	39	1	1	54	3	2
	Subtotal	1056	2	2	1412	3	2
Southampton	F	1	1	0	1	1	0
	Total	1057	2	2	1413	3	2
Muskox		1	1	0	1	1	0
Polar Bear		6	1	0	8	1	0
Arctic Fox		380	5	6	508	7	8
Red Fox		19	3	4	25	4	6
Wolf		36	2	1	48	2	1
Wolverine		1	1	0	1	1	0
Arctic Hare		8	2	1	10	2	2
Ringed Seal		624	4	4	851	5	5
Bearded Seal		12	1	1	16	2	1
Harp Seal		23	2	2	31	3	3
Walrus		14	1	0	18	2	1
Beluga		3	1	0	4	1	0
Narwhal		15	1	0	20	2	1
Canada Geese		16	2	1	23	3	1
Geese		3	2	1	4	2	1
Eider		3	3	0	4	4	0
Ptarmigan		43	3	3	58	5	4
Arctic Charr		3087	45	62	4204	62	83
Lake Trout		224	19	20	316	26	28

¹See Table 1.

²See also Tables 6 and 13.

³There has been a problem in establishing the number of hunters in this community. The actual number may be slightly less than that used by the harvest study. If so the estimated harvest is slightly high.

Table 21. The reported and estimated harvest for Whale Cove hunters expressed as numbers of animals. The monthly harvest per hunter and standard deviation about the mean are given.

Species	Category ¹	REPORTED HARVEST ² Oct. 1984 - Sept. 1985			ESTIMATED HARVEST ² Oct. 1984 - Sept. 1985		
		Total	Mean	S.D.	Total	Mean	S.D.
<u>Caribou</u>							
Kaminuriak	M	298	2	1	307	2	2
	F	402	4	3	417	4	3
	C	16	1	1	17	1	1
	U	13	3	3	13	3	3
	Total	729	3	2	754	3	2
Muskox		2	1	0	2	1	0
Polar Bear		6	1	0	8	1	0
Arctic Fox		96	16	14	125	21	19
Wolf		15	3	4	15	3	4
Arctic Hare		13	2	1	13	2	1
Ringed Seal		232	3	2	246	3	3
Bearded Seal		24	4	4	24	4	4
Beluga		19	2	1	19	2	1
Canada Geese		99	14	13	103	15	14
Snow Geese		81	9	15	84	9	16
Geese		569	13	11	598	14	12
Eider		12	4	3	12	4	3
Ptarmigan		10	5	1	10	5	1
Canada Goose Eggs		2	2	0	2	2	0
Goose Eggs		687	31	20	723	33	21
Arctic Charr		969	18	36	1005	19	37
Lake Trout		112	7	6	119	7	7
Arctic Grayling		5	5	0	5	5	0

¹See Table 1.

²See also Tables 7 and 14.

Table 22. Monthly theoretical kill factors for seven Keewatin communities derived using two methods of calculation.¹

Community	1984			1985								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Baker Lake	1.00 ² (1.00) ³	1.00 (1.00)	1.00 (1.00)	1.00 (1.00)	1.00 (1.00)	1.00 (1.00)	1.01 (1.01)	1.00 (1.00)	1.01 (1.01)	1.00 (1.00)	1.00 (1.00)	1.00 (1.00)
Chesterfield Inlet	1.00 (1.00)	1.00 (1.00)	1.00 (1.00)	1.00 (1.00)	1.00 (1.00)	1.00 (1.00)	1.00 (1.00)	1.13 (1.13)	1.11 (1.11)	1.07 (1.07)	1.21 (1.21)	1.08 (1.08)
Coral Harbour	1.01 (1.01)	1.54 (1.62)	1.40 (1.40)	1.22 (1.22)	1.59 (1.60)	1.04 (1.04)	1.02 (1.02)	1.28 (1.28)	1.65 (1.66)	1.52 (1.58)	1.29 (1.31)	1.09 (1.09)
Eskimo Point	1.09 (1.09)	1.01 (1.01)	1.22 (1.23)	1.04 (1.04)	1.14 (1.14)	1.31 (1.31)	1.17 (1.17)	1.14 (1.14)	1.11 (1.11)	1.40 (1.41)	1.07 (1.07)	1.01 (1.01)
Rankin Inlet	1.18 (1.18)	1.36 (1.36)	1.36 (1.36)	1.33 (1.33)	1.63 (1.63)	1.37 (1.37)	1.35 (1.35)	1.39 (1.39)	1.30 (1.30)	1.96 (1.96)	1.25 (1.25)	1.16 (1.16)
Repulse Bay	1.38 (1.40)	1.34 (1.36)	1.40 (1.40)	1.20 (1.20)	1.38 (1.40)	1.27 (1.27)	1.31 (1.34)	1.39 (1.43)	1.51 (1.53)	1.35 (1.35)	1.33 (1.33)	1.31 (1.31)
Whale Cove		1.32 (1.34)	1.04 (1.04)	1.00 (1.00)	1.00 (1.00)	1.03 (1.03)	1.00 (1.00)	1.06 (1.06)	1.05 (1.05)	1.00 (1.00)	1.00 (1.00)	1.00 (1.00)

¹See Appendix 2.

²Theoretical kill factors derived using the method of Gamble (1984).

³Theoretical kill factors derived using the method of Topolniski and Thompson.

Table 23. The harvest by species over the range of age for Baker Lake hunters.

Species	Category ¹	AGE CLASS HARVEST				
		1984-1985				
		1	2	3	4	5
<u>Caribou</u>						
Kaminuriak	M	4	108	150	67	33
	F	9	79	87	43	22
	C	4	38	12	8	2
	U		1	3		
	Subtotal	17	226	252	118	57
Beverly	M	21	339	416	205	70
	F	20	259	340	186	46
	C	9	100	101	37	16
	U		11	21	14	
	Subtotal	50	709	878	442	132
Wager	M	24	436	662	405	140
	F	35	315	397	277	76
	C	4	66	37	35	9
	U		4	2	2	
	Subtotal	63	821	1098	719	225
	Total	130	1756	2228	1279	414
Muskox			1	2	2	
Polar Bear			1			
Grizzly Bear					1	
Arctic Fox		41	486	1141	1156	463
Red Fox				2	3	
Wolf		1	5	46	10	
Canada Geese		21	290	183	96	32
Snow Geese		4	11		15	
Ptarmigan			403			
Swan				2	4	
Canada Goose Eggs		32	167	106	91	17
Goose Eggs		92	883	994	354	128
Arctic Charr		8	48	119	11	14
Lake Trout		7	338	893	562	227
Whitefish sp.			54	206	182	41
Arctic Grayling			22	29	28	10

¹See Table 1.

²Age classes are as follows:

1 = 0-15
 2 = 16-30
 3 = 31-45
 4 = 46-60
 5 = 61-75

Table 24. The harvest by species over the range of age for Chesterfield Inlet hunters.

Species	Category ¹	AGE CLASS HARVEST				
		1984-1985				
		1	2	3	4	5 ²
<u>Caribou</u>						
Kaminuriak	M		1	29	24	
	F				12	
	U				6	
	Subtotal		1	29	42	
North of Chesterfield	M		17	31	26	
	F			4	19	
	C		8	3		
	Subtotal		25	38	45	
Other			2			
	Total		28	67	87	
Muskox				2		
Polar Bear			1	2	2	
Arctic Fox				7	54	
Wolf			4	3	1	
Ringed Seal			4	9	21	3
Bearded Seal				1	3	
Walrus				5	9	1
Beluga			6	9	12	1
Canada Geese					27	
Snow Geese				8		
Arctic Charr				7		
Lake Trout			31	21	108	

¹See Table 1.²For age classes see Table 23.

Table 25. The harvest by species over the range of age for Coral Harbour hunters.

Species	Category ¹	AGE CLASS HARVEST				
		1984-1985				
		1	2	3	4	5 ²
<u>Caribou</u>						
Kaminuriak	M		3			
	F		3	3		
	Subtotal		6	3		
Wager	M	1	4	6	10	4
	F	4	29	45	17	3
	Unknown		22	27	5	3
	Subtotal	5	55	78	32	10
Coats	M		20	48	9	
	F		5	12	4	
	Unknown		10			
	Subtotal		35	60	13	
Southampton	M		9	19	6	3
	F		2	5	1	2
	Unknown		1	2	2	
	Subtotal		12	26	9	5
Other	M		1			
	Subtotal		1			
	Total	5	109	167	54	15
Polar Bear			23	16	8	2
Arctic Fox		24	41	128	156	60
Wolf			4	3		
Arctic Hare		2	7	1	3	
Ringed Seal			118	122	150	46
Bearded Seal			7	16	15	4
Harbour Seal			2	1	2	
Harp Seal			4	2	3	
Walrus			3	9	12	
Beluga			15	37	18	6
Canada Geese			7	21	10	
Snow Geese		7	1486	549	566	46
Geese			118	70		
Eider			4	7	10	
Ptarmigan		26	180	284	229	49
Goose Eggs			589	607	1050	150
Arctic Charr		1	922	1078	1652	311
Lake Trout			3	1		
Sculpin sp.			3			

¹See Table 1.²For age classes see Table 23.

Table 26. The harvest by species over the range of age for Eskimo Point hunters.

Species	Category ¹	AGE CLASS HARVEST				
		1984-1985				
		1	2	3	4	5 ²
<u>Caribou</u>						
Kaminuriak	M	1	174	311	202	7
	F		136	351	195	15
	C		47	45	81	13
	U		49	81	21	1
	Total	1	406	788	499	36
Muskox				1		
Polar Bear			7	2	4	
Arctic Fox			220	210	402	41
Red Fox			2	2	7	
Wolf			13	22		
Arctic Hare				1		
Lemming			7			
Ringed Seal			70	116	26	
Bearded Seal			11	11		
Harp Seal				2		
Walrus					1	
Beluga			18	56	11	
Canada Geese			95	40	2	1
Snow Geese			238	276	106	3
Geese			4	19	3	
Eider			1	3	4	
Ptarmigan			37	83	27	
Goose Eggs			252	56		
Arctic Charr			865	1121	1029	9
Lake Trout			191	447	92	15
Whitefish sp.				2		
Northern Pike				2		
Arctic Grayling			43	274	5	41
Other Freshwater Fish			1	58	2	

¹See Table 1.²For age classes see Table 23.

Table 27. The harvest by species over the range of age for Rankin Inlet hunters.

Species	Category ¹	AGE CLASS HARVEST				
		1984-1985				
		1	2	3	4	5 ²
<u>Caribou</u>						
Kaminuriak	M		151	280	204	68
	F		91	216	118	41
	C		1	2	2	
	U		5	5	20	1
	Subtotal		248	503	344	110
North of Chesterfield	M		4	25	12	
	Total		252	528	356	110
Muskox			1		1	
Polar Bear			3	1	3	1
Arctic Fox			16	10	24	1
Wolf			3	3	2	4
Arctic Hare			1	6	1	
Arctic Ground Squirrel					1	
Ringed Seal			44	141	85	17
Bearded Seal			8	10	5	1
Harbour Seal				1	2	
Harp Seal					1	
Seal sp. (unknown)			2			
Walrus				2	1	
Beluga			4	10	20	2
Canada Geese		5	68	124	25	17
Snow Geese		3	95	149	114	29
Geese				2		
Eider				6	5	
Unknown Ducks			1		5	
Ptarmigan			40	46	49	3
Canada Goose Eggs				10		
Goose Eggs				70	64	
Arctic Charr		72	557	1289	2833	423
Lake Trout			113	99	88	32
Whitefish sp.			6			
Arctic Grayling			21	15		
Arctic Cod				6		
Sculpin sp.					10	

¹See Table 1.²For age classes see Table 23.

Table 28. The harvest by species over the range of age for Repulse Bay hunters.

Species	Category ¹	AGE CLASS HARVEST				
		1984-1985				
		1	2	3	4	5 ²
<u>Caribou</u>						
Wager	M	5	177	221	111	90
	F	3	94	135	77	64
	C		9	21	6	4
	U		15	2	20	2
	Subtotal	8	295	379	214	160
Southampton	M		1			
	Total	8	296	379	214	160
Muskox					1	
			2	2	2	
Polar Bear		6	94	119	106	55
Arctic Fox			2	15	1	1
Red Fox			7	14	11	4
Wolf				1		
Wolverine			2	4	1	1
Arctic Hare		10	160	235	159	60
Ringed Seal			6	4	2	
Bearded Seal			1	8	10	4
Harp Seal			5	6	1	2
Walrus				2	1	
Beluga			5	7	3	
Narwhal			6	4	6	
Canada Geese			1			2
Geese				3		
Eider			7	30	5	1
Ptarmigan			593	1878	518	98
Arctic Charr			22	171	30	1
Lake Trout						

¹See Table 1.²For age classes see Table 23.

Table 29. The harvest by species over the range of age for Whale Cove hunters.

Species	Category ¹	AGE CLASS HARVEST				
		1984-1985				
		1	2	3	4	5 ²
<u>Caribou</u>						
Kaminuriak	M	1	74	111	81	31
	F		73	123	182	24
	C		5	1	8	2
	U		3		1	9
	Total	1	155	235	272	66
Muskox			1	1		
Polar Bear			3	2		1
Arctic Fox			34	45		17
Wolf			1	2	2	
Arctic Hare			13			
Ringed Seal			73	99	42	18
Bearded Seal			1	22		1
Beluga			9	4	4	2
Canada Geese			41	56	2	
Snow Geese			77			4
Geese			401	93	68	7
Eider			12			
Ptarmigan		6	4			
Canada Goose Eggs				2		
Goose Eggs			379	218	65	25
Arctic Charr			139	354	431	45
Lake Trout			15	54	10	33
Arctic Grayling				5		

¹See Table 1.²For age classes see Table 23.

Table 30. Age distribution of hunters for the seven Keewatin region communities for the period of October 1984 to September 1985.

Community	Age						Total Hunters Known
	0-15	16-30	31-45	46-60	61-75	76+ ¹	
Baker Lake	2.2	41.2	29.6	18.8	7.2	1.1	362
Chesterfield Inlet		50.6	24.1	18.4	5.7	1.1	87
Coral Harbour	4.1	45.3	25.9	14.1	8.2	2.4	170
Eskimo Point	.6	42.4	34.2	17.4	5.1	.3	316
Rankin Inlet	.7	39.7	35.2	17.6	6.2	.7	290
Repulse Bay	1.6	45.2	31.7	13.5	7.1	.8	126
Whale Cove		44.7	28.7	13.8	11.7	1.1	94
Total Hunters for the Keewatin District	1.5	42.8	31.1	16.9	6.9	1.0	1445

¹This category includes hunters of unknown ages. There are only eight hunters of known age in this group.

Table 31. Data on the distribution of hunters that were successful in obtaining a harvest expressed as a percent over the range of age of hunters for the period October 1984 to September 1985.

Community	Range of Ages	DISTRIBUTION OF SUCCESSFUL HUNTERS BY MONTH (%)												Total by Harvest Year
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
Baker Lake	0-15	1.5	3.2	3.1	3.1	4.8	3.9	4.3	3.7	4.2	3.1	3.2	3.2	2.7
	16-30	43.1	41.0	42.3	44.4	40.7	41.3	40.7	40.7	37.3	41.0	37.3	43.1	44.8
	31-45	30.5	30.8	32.1	30.1	28.0	32.3	31.4	30.7	31.3	32.3	32.3	28.9	26.4
	46-60	19.8	19.2	16.3	16.3	19.0	18.1	17.9	16.9	17.5	16.4	19.0	17.9	19.1
	61-75	5.1	5.8	6.1	6.1	7.4	4.5	5.7	7.9	9.6	7.2	8.2	6.9	7.0
Number of successful hunters		197	156	196	196	189	155	140	189	166	195	158	218	299
Chesterfield Inlet	16-30	21.4	0.0	14.3	0.0	11.1	18.2	20.0	33.3	28.6	50.0	16.7	25.0	35.7
	31-45	35.7	75.0	28.6	40.0	55.6	45.5	20.0	16.7	14.3	16.7	33.3	37.5	32.1
	46-60	42.9	25.0	57.1	40.0	33.3	36.4	60.0	50.0	57.1	33.3	33.3	25.0	28.6
	61-75	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	12.5	3.6
Number of successful hunters		14	4	7	5	9	11	5	6	7	6	6	8	28
Coral Harbour	0-15	0.0	0.0	0.0	0.0	0.0	2.9	3.8	8.1	0.0	0.0	0.0	0.0	4.6
	16-30	36.7	34.5	39.1	31.4	26.5	29.4	45.3	37.1	54.1	39.5	37.3	30.0	49.2
	31-45	38.8	31.0	21.7	25.7	29.4	35.3	30.2	30.6	27.9	42.1	41.2	50.0	24.6
	46-60	18.4	20.7	26.1	31.4	29.4	23.5	17.0	17.7	14.8	13.2	17.6	20.0	13.1
	61-75	6.1	13.8	13.0	11.4	14.7	8.8	3.8	6.5	3.3	5.3	3.9		8.5
Number of successful hunters		49	29	23	35	34	34	53	62	61	38	51	30	130
Eskimo Point	0-15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.4
	16-30	30.5	31.7	27.3	28.9	35.7	27.3	32.3	44.6	42.0	39.7	27.8	27.6	41.4
	31-45	39.0	35.4	40.9	40.0	37.5	39.4	40.0	38.0	38.6	31.0	48.6	44.8	35.2
	46-60	28.8	31.7	31.8	28.9	25.0	30.3	24.6	17.4	18.2	25.9	20.8	27.6	20.3
	61-75	1.7	1.2	0.0	2.2	1.8	3.0	3.1	0.0	1.1	3.4	1.4	0.0	2.6
Number of successful hunters		59	82	44	45	56	33	65	92	88	58	72	58	227
Rankin Inlet	0-15	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	2.2	0.0	0.0	0.0	0.6
	16-30	9.1	30.8	32.4	25.0	19.2	15.6	17.1	30.2	28.9	16.0	25.5	40.5	35.8
	31-45	54.5	35.9	32.4	36.1	38.5	31.3	40.0	30.2	37.8	36.0	29.1	32.4	31.4
	46-60	31.8	20.5	24.3	25.0	34.6	43.8	28.6	25.4	22.2	40.0	34.5	21.6	19.5
	61-75	4.5	12.8	10.8	13.9	7.7	6.3	14.3	14.3	8.9	8.0	10.9	5.4	12.6
Number of successful hunters		22	39	37	36	26	32	35	63	45	25	55	37	159
Repulse Bay	0-15	0.0	2.6	0.0	0.0	0.0	0.0	3.4	2.3	0.0	0.0	2.4	2.0	3.5
	16-30	51.7	35.9	34.8	35.3	50.0	48.4	24.1	38.6	20.8	43.1	31.0	42.0	45.9
	31-45	27.6	38.5	34.8	23.5	29.2	22.6	37.9	29.5	29.2	27.5	35.7	28.0	28.2
	46-60	13.8	15.4	8.7	23.5	12.5	12.9	27.6	18.2	37.5	19.6	19.0	18.0	15.3
	61-75	6.9	7.7	21.7	17.6	8.3	16.1	6.9	11.4	12.5	9.8	11.9	10.0	7.1
Number of successful hunters		29	39	23	17	24	31	29	44	24	51	42	50	85
Whale Cove	0-15	0.0	0.0	0.0	0.0	3.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
	16-30	26.7	27.8	38.9	35.0	34.6	36.0	31.6	54.5	50.0	53.5	51.2	54.5	50.9
	31-45	40.0	38.9	22.2	25.0	30.8	24.0	21.1	15.2	18.8	18.6	23.3	18.2	22.8
	46-60	26.7	16.7	27.8	30.0	23.1	24.0	31.6	21.2	21.9	16.3	16.3	15.2	14.0
	61-75	6.7	16.7	11.1	10.0	7.7	12.0	15.8	9.1	9.4	11.6	9.3	12.1	10.5
Number of successful hunters		15	18	18	20	26	25	19	33	32	43	43	33	57
Regional Totals	0-15	0.8	1.4	1.7	1.5	2.7	2.3	2.3	2.3	1.8	1.3	1.4	1.6	1.7
	16-30	35.9	37.7	33.4	38.0	35.9	33.4	33.2	37.5	39.6	37.2	31.9	34.7	35.6
	31-45	36.2	33.2	32.3	31.3	32.5	33.4	34.9	34.6	32.7	33.0	36.5	34.0	33.9
	46-60	23.4	20.4	25.9	20.5	21.0	23.2	23.0	19.0	19.0	18.5	21.2	21.7	21.3
	61-75	3.7	7.3	6.7	8.7	8.0	7.7	6.6	6.6	6.9	10.0	9.0	8.0	7.5
Total number of successful hunters		385	367	348	354	364	321	346	489	423	416	427	434	985

Table 32. Edible weight values in kilograms for harvested species as calculated from various sources.

Species	Estimated Individual Weight (kg)	Reference ¹
Caribou	48.0	Berger 1977
Moose	199.0	Berger 1977
Muskox	110.0	Riewe 1977
Polar bear	158.8	Native Harvesting Research Committee 1975, 1976a or b
Black bear	45.4	Dome et al. 1982
Grizzly bear	45.4	"
Arctic hare	2.3	Native Harvesting Research Committee 1975, 1976a or b
Ringed seal	14.3	"
Bearded seal	98.4	"
Harbour seal	27.7	"
Harp seal	43.1	"
Walrus	185.1	"
Beluga ²	(M)555.0(F)407.9	Sergeant and Brodie 1969
Narwhal	(M)595.2(F)397.0	Hay (personal communication, DFO, St. John's, NF); Sergeant and Brodie 1969
Canada geese (Hutchinsii)	2.4	Bellrose 1976
Snow geese (Lesser)	1.6	"
Ross's geese	1.0	"
Eider (Hudson Bay)	1.5	"
Old squaw	0.5	"
Mallard	0.7	"
Ptarmigan	0.4	Thomas 1982
Sandhill crane	4.1	Stevens 1965
Snowy owl	1.8	Earhart and Johnson 1970
Swan	6.8	Bellrose 1976
Arctic charr	2.5	Carder 1983
Lake trout	2.4	Bond 1975; Keleher 1964
Whitefish sp.	2.8	"
Northern pike	2.1	MacDonald and Fudge 1979; Keleher 1964
Arctic grayling	0.9	Falk and Gillman 1975; Keleher 1964

¹These references are listed in detail in the reference section of the report.

²"M" means male, "F" means female.

Table 33. Reported and estimated edible weight values (kg) for harvested species for the period October, 1984 to September, 1985. For Whale Cove the best estimate was the reported harvest for the month of October as participation information was lacking.

Community and Species	1984-85 Reported Harvest (kg)	1984-85 Estimated Harvest (kg)
	Total	Total
<u>Baker Lake</u>		
Caribou	278736	278915
Muskox	550	550
Polar Bear	159	159
Grizzly Bear	45	45
Canada Geese	1493	1496
Snow Geese	48	49
Ptarmigan	161	161
Swan	41	41
Arctic Charr	500	501
Lake Trout	4865	4879
Whitefish sp.	1352	1353
Arctic Grayling	80	81
Total	288030	288230
<u>Chesterfield Inlet</u>		
Caribou	8736	8999
Muskox	220	220
Polar Bear	794	835
Ringed Seal	529	570
Bearded Seal	394	417
Walrus	2777	2919
Beluga	13482	15374
Canada Geese	65	72
Snow Geese	13	14
Arctic Charr	18	19
Lake Trout	384	398
Total	27412	29837
<u>Coral Harbour</u>		
Caribou	16800	20603
Polar Bear	7781	8547
Arctic Hare	30	34
Ringed Seal	6235	8394
Bearded Seal	4133	5094
Harbour Seal	139	168
Harp Seal	388	466
Walrus	4442	5379
Beluga	36594	46080
Canada Geese	91	130
Snow Geese	4246	6805
Eider	32	33
Ptarmigan	307	307
Arctic Charr	9903	12969
Lake Trout	10	16
Total	91131	115078
<u>Eskimo Point</u>		
Caribou	83040	93503
Muskox	110	125
Polar Bear	2064	2085
Arctic Hare	2	3
Ringed Seal	3032	3363

Table 33 Cont'd.

Community and Species	1984-85 Reported Harvest (kg)	1984-85 Estimated Harvest (kg)
	Total	Total
Bearded Seal	2165	2373
Harp Seal	86	96
Walrus	185	211
Beluga	40928	44905
Canada Geese	331	375
Snow Geese	997	1128
Eider	12	13
Ptarmigan	59	67
Arctic Charr	7560	8467
Lake Trout	1788	2043
Whitefish sp.	6	7
Northern Pike	4	5
Arctic Grayling	327	356
Total	142696	159125
<u>Rankin Inlet</u>		
Carihou	59808	81178
Muskox	220	293
Polar Bear	1270	1771
Arctic Hare	18	22
Ringed Seal	4104	5779
Bearded Seal	2362	3144
Harbour Seal	83	101
Harp Seal	43	54
Walrus	555	922
Beluga	17334	22135
Canada Geese	574	757
Snow Geese	624	830
Eider	17	22
Ptarmigan	55	74
Arctic Charr	12935	17911
Lake Trout	797	1079
Whitefish sp.	17	23
Arctic Grayling	32	44
Total	100848	136139
<u>Repulse Bay</u>		
Carihou	50736	67821
Muskox	110	152
Polar Bear	953	1299
Arctic Hare	18	24
Ringed Seal	8923	12158
Bearded Seal	1181	1570
Harp Seal	991	1309
Walrus	2591	3402
Beluga	1445	1931
Narwhal	7442	9996
Canada Geese	38	55
Eider	5	6
Ptarmigan	17	23
Arctic Charr	7718	10510
Lake Trout	538	757
Total	82706	111013

Table 33 Cont'd.

Community and Species	1984-85 Reported Harvest (kg)	1984-85 Estimated Harvest (kg)
	Total	Total
<u>Whale Cove</u>		
Caribou	34992	36172
Muskox	220	220
Polar Bear	953	1216
Arctic Hare	30	30
Ringed Seal	3318	3516
Bearded Seal	2362	2365
Beluga	9149	9149
Canada Geese	238	248
Snow Geese	130	135
Eider	18	18
Ptarmigan	4	4
Arctic Charr	2423	2512
Lake Trout	269	286
Arctic Grayling	5	5
Total	54111	55876

Table 34. Reported and estimated edible weight values for four major groups of animals harvested by Keewatin communities, October, 1984 to September, 1985.

Period	Baker Lake (reported edible wt)					Baker Lake (estimated edible wt)				
	Total Edible Weight (kg)	Weight (kg) per Category (bracketed figures are % of total)				Total Edible Weight (kg)	Weight (kg) per Category (bracketed figures are % of total)			
		Terrestrial	Marine	Fowl	Fish		Terrestrial	Marine	Fowl	Fish
1984										
Oct	58551 ¹	57600 (98.4)		161 (.3)	790 (1.3)	58551 ¹	57600 (98.4)		161 (.3)	790 (1.3)
Nov	14045	13488 (96.0)			557 (4.0)	14045	13488 (96.0)			577 (4.0)
Dec	18648	18000 (96.5)			648 (3.5)	18648	18000 (96.5)			648 (3.5)
1985										
Jan	22876	22080 (96.5)			796 (3.5)	22876	22080 (96.5)			796 (3.5)
Feb	19240	19056 (99.0)			184 (1.0)	19240	19056 (99.0)			184 (1.0)
Mar	14773	14773 (100.0)				14773	14773 (100.0)			
Apr	11472	11472 (100.0)				11587	11587 (100.0)			
May	10543	8496 (80.6)		1163 (11.0)	884 (8.4)	10543	8496 (80.6)		1163 (11.0)	884 (8.4)
June	8515	6432 (75.5)		418 (4.9)	1665 (19.6)	8601	6496 (75.5)		423 (4.9)	1682 (19.6)
July	16142	15165 (93.9)			977 (6.1)	16142	15165 (93.9)			977 (6.1)
Aug	27092	26880 (99.2)			212 (.8)	27092	26880 (99.2)			212 (.8)
Sept	66133	66048 (99.9)			85 (.1)	66133	66048 (99.9)			85 (.1)
Total	288030	279490 (97.0)		1742 (.6)	6798 (2.4)	288231	279669 (97.0)		1747 (.6)	6815 (2.4)

¹In this table there are two situations where reported and estimated values are equal:

- The theoretical kill factor (Table 22) is the value by which the reported kill per species is multiplied to arrive at the estimated harvest. In cases where this value is one then 100% of the hunters have been interviewed and the reported and estimated harvests are equal.
- For the community of Whale Cove for the month of October 1984 no data was collected on hunter participation. Consequently no meaningful theoretical kill factor could be calculated. In this case the best estimate of harvest was taken to be the reported harvest.

Table 34 Cont'd.

Period	Chesterfield Inlet (reported edible wt)					Chesterfield Inlet (estimated edible wt)				
	Total Edible Weight (kg)	Weight (kg) per Category (bracketed figures are % of total)				Total Edible Weight (kg)	Weight (kg) per Category (bracketed figures are % of total)			
		Terrestrial	Marine	Fowl	Fish		Terrestrial	Marine	Fowl	Fish
1984										
Oct	1182 ¹	816 (69.0)	100 (8.5)		266 (22.5)	1182 ¹	816 (69.0)	100 (8.5)		266 (22.5)
Nov	816	816 (100.0)				816	816 (100.0)			
Dec	1248	1248 (100.0)				1248	1248 (100.0)			
1985										
Jan	627	144 (23.0)	483 (77.0)			627	144 (23.0)	483 (77.0)		
Feb	1887	1147 (60.8)	740 (39.2)			1887	1147 (60.8)	740 (39.2)		
Mar	2660	2190 (82.3)	470 (17.7)			2660	2190 (82.3)	470 (17.7)		
Apr	631	528 (83.7)	98 (15.6)		5 (.8)	631	528 (83.7)	98 (15.6)		5 (.8)
May	1417	1182 (83.4)	170 (12.0)		65 (4.6)	1600	1335 (83.4)	192 (12.0)		73 (4.6)
June	1736	96 (5.5)	1509 (87.0)	65 (3.7)	66 (3.8)	1926	107 (5.5)	1674 (87.0)	72 (3.7)	73 (3.8)
July	557	528 (94.9)	29 (5.1)			596	565 (94.9)	31 (5.1)		
Aug	6475	144 (2.2)	6331 (97.8)			7835	174 (2.2)	7661 (97.8)		
Sept	8176	912 (11.2)	7251 (88.7)	13 (.2)		8830	985 (11.2)	7831 (88.7)	14 (.2)	
Total	27412	9751 (35.6)	17181 (62.7)	78 (.3)	402 (1.5)	29838	10055	19280	86 (.3)	417 (1.4)

Table 34 Cont'd.

Period	Coral Harbour (reported edible wt.)					Coral Harbour (estimated edible wt.)				
	Total Edible Weight (kg)	Weight (kg) per Category (bracketed figures are % of total)				Total Edible Weight (kg)	Weight (kg) per Category (bracketed figures are % of total)			
		Terrestrial	Marine	Fowl	Fish		Terrestrial	Marine	Fowl	Fish
1984										
Oct	13620	5562 (40.8)	5292 (38.9)	18 (.1)	2748 (20.2)	13755	5617 (90.8)	5345 (38.9)	18 (.1)	2775 (20.2)
Nov	1480	1049 (70.9)	186 (12.6)	17 (1.2)	228 (15.4)	2278	1615 (70.9)	286 (12.6)	27 (1.2)	350 (15.4)
Dec	1312	5 (.4)	411 (31.4)	31 (2.3)	865 (65.9)	1836	6 (.4)	576 (31.4)	43 (2.3)	1211 (65.9)
1985										
Jan	1943	211 (10.9)	1721 (88.6)	11 (.6)		2371	258 (10.9)	2100 (88.6)	13 (.6)	
Feb	1642	192 (11.7)	1125 (68.5)	7 (.2)	318 (19.3)	2609	305 (11.7)	1788 (68.5)	11 (.4)	505 (19.3)
Mar	2633	527 (20.0)	1244 (47.2)	67 (2.6)	795 (30.2)	2739	548 (20.0)	1294 (47.2)	70 (2.6)	827 (30.2)
Apr	6625	5643 (85.2)	882 (13.3)	100 (1.5)		6757	5756 (85.2)	899 (13.3)	102 (1.5)	
May	6714	5855 (87.2)	329 (4.9)	267 (4.0)	263 (3.9)	8593	7494 (87.2)	421 (4.9)	342 (4.0)	336 (3.9)
June	6403		1016 (15.9)	3722 (58.1)	1665 (26.0)	10564		1676 (15.9)	6141 (58.1)	2747 (26.0)
July	10054	1824 (18.1)	6779 (67.4)	26 (.3)	1425 (14.2)	15282	2773 (18.1)	10304 (67.4)	39 (.3)	2166 (14.2)
Aug	30501	3648 (12.0)	24897 (81.6)	373 (1.2)	1583 (5.2)	39345	4706 (12.0)	32117 (81.6)	481 (1.2)	2041 (5.2)
Sept	8210	96 (1.2)	8050 (98.1)	39 (.5)	25 (.3)	8950	105 (1.2)	8775 (98.1)	43 (.5)	27 (.3)
Total	91137	24612	51932	4678 (5.1)	9915	115079	29183 (25.4)	65581 (57.0)	7330 (6.4)	12985 (11.3)

Table 34 Cont'd.

Period	Eskimo Point (reported edible wt)					Eskimo Point (estimated edible wt)				
	Total Edible Weight (kg)	Weight (kg) per Category (bracketed figures are % of total)				Total Edible Weight (kg)	Weight (kg) per Category (bracketed figures are % of total)			
		Terrestrial	Marine	Fowl	Fish		Terrestrial	Marine	Fowl	Fish
1984										
Oct	8905	5616 (63.1)	2729 (30.6)	24 (.3)	536 (6.0)	9705	6121 (63.1)	2974 (30.6)	26 (.3)	584 (6.0)
Nov	8819	8496 (96.3)			323 (3.7)	8907	8581 (96.3)			326 (3.7)
Dec	6306	6096 (96.7)		2 (.0)	208 (3.3)	7693	7437 (96.7)		2 (.0)	254 (3.3)
1985										
Jan	7741	7728 (99.8)		1 (.0)	12 (.2)	8051	8037 (99.8)		1 (.0)	13 (.2)
Feb	9081	9038 (99.5)	43 (.5)			10352	10303 (99.5)	49 (.5)		
Mar	5271	5232 (99.3)			39 (.7)	6904	6854 (99.3)			50 (.7)
Apr	9906	9360 (94.5)	14 (.1)	14 (.1)	518 (5.2)	11590	10951 (94.5)	17 (.1)	16 (.1)	606 (5.2)
May	8189	5186 (63.3)	1022 (12.5)	989 (12.1)	992 (12.1)	9336	5912 (63.3)	1165 (12.5)	1128 (12.1)	1131 (12.1)
June	5768	3600 (62.4)	1023 (17.7)	370 (6.4)	775 (13.4)	6404	3996 (62.4)	1136 (17.7)	411 (6.4)	861 (13.4)
July	9787	5136 (52.5)	3471 (35.5)		1180 (12.1)	13700	7190 (52.5)	4859 (35.5)		1651 (12.1)
Aug	48821	6768 (13.9)	37895 (77.6)		4158 (8.5)	52239	7242 (13.9)	40548 (77.6)		4449 (8.5)
Sept	14104	12960 (91.9)	199 (1.4)		945 (6.7)	14245	13090 (91.9)	201 (1.4)		954 (6.7)
Total	142698	85216 (59.7)	46396 (32.5)	1400 (1.0)	9686 (6.8)	159126	95714 (60.2)	50949 (32.0)	1584 (1.0)	10879 (6.8)

Table 34 Cont'd.

Period	Rankin Inlet (reported edible wt)					Rankin Inlet (estimated edible wt)				
	Total Edible Weight (kg)	Weight (kg) per Category (bracketed figures are % of total)				Total Edible Weight (kg)	Weight (kg) per Category (bracketed figures are % of total)			
		Terrestrial	Marine	Fowl	Fish		Terrestrial	Marine	Fowl	Fish
1984										
Oct	3282	1248 (38.0)	1871 (57.0)	15 (.5)	148 (4.5)	3872	1473 (38.0)	2207 (57.0)	18 (.5)	174 (4.5)
Nov	7105	5297 (74.6)	172 (2.4)	2 (.0)	1634 (23.0)	9662	7204 (74.6)	233 (2.4)	3 (.0)	2222 (23.0)
Dec	6487	5904 (91.0)	200 (3.1)	5 (.1)	378 (5.8)	8820	8029 (91.0)	272 (3.1)	6 (.1)	513 (5.8)
1985										
Jan	9257	8908 (96.2)	114 (1.2)		235 (2.5)	12312	11848 (96.2)	152 (1.2)		312 (2.5)
Feb	5544	5247 (94.6)	199 (3.6)	6 (.1)	92 (1.7)	9035	8552 (94.6)	325 (3.6)	9 (.1)	149 (1.7)
Mar	4331	4032 (93.1)	100 (2.3)		199 (4.6)	5934	5524 (93.1)	137 (2.3)		273 (4.6)
Apr	8137	7824 (96.1)	100 (1.2)	3 (.0)	210 (2.6)	10985	10562 (96.1)	135 (1.2)	4 (.0)	284 (2.6)
May	6889	5579 (81.0)	414 (6.0)	348 (5.0)	548 (7.9)	9574	7755 (81.0)	575 (6.0)	483 (5.0)	761 (7.9)
June	6816	2190 (32.1)	1025 (15.0)	886 (13.0)	2715 (39.8)	8861	2847 (32.1)	1333 (15.0)	1151 (13.0)	3530 (39.8)
July	5805	1584 (27.3)	2371 (40.8)	2 (.0)	1848 (31.8)	11378	3105 (27.3)	4647 (40.8)	5 (.0)	3621 (31.8)
Aug	28365	7776 (27.4)	14842 (52.3)	2 (.0)	5745 (20.3)	35456	9720 (27.4)	18552 (52.3)	3 (.0)	7181 (20.3)
Sept	8833	5728 (64.8)	3073 (34.8)	1 (.0)	31 (.4)	10246	6645 (64.8)	3564 (34.8)	1 (.0)	36 (.4)
Total	100851	61317 (60.8)	24481 (24.3)	1270 (1.3)	13783 (13.7)	136135	83264 (61.2)	32132 (23.6)	1683 (1.2)	19056 (14.0)

Table 34 Cont'd.

Period	Repulse Bay (reported edible wt)					Repulse Bay (estimated edible wt)				
	Total Edible Weight (kg)	Weight (kg) per Category (bracketed figures are % of total)				Total Edible Weight (kg)	Weight (kg) per Category (bracketed figures are % of total)			
		Terrestrial	Marine	Fowl	Fish		Terrestrial	Marine	Fowl	Fish
1984										
Oct	5965	3408 (57.1)	1414 (23.7)		1143 (19.2)	8232	4703 (57.1)	1952 (23.7)		1577 (19.2)
Nov	6097	4892 (80.2)	186 (3.0)	1 (.0)	1018 (16.7)	8171	6556 (80.2)	249 (3.0)	2 (.0)	1364 (16.7)
Dec	3234	2609 (80.7)			625 (19.3)	4528	3653 (80.7)			875 (19.3)
1985										
Jan	3404	2688 (79.0)	172 (5.0)	1 (.0)	543 (15.9)	4084	3226 (79.0)	206 (5.0)	1 (.0)	651 (15.9)
Feb	4748	4748 (100.0)				6552	6552 (100.0)			
Mar	5094	4706 (92.4)	388 (7.6)			6469	5977 (92.4)	492 (7.6)		
Apr	4095	3794 (92.7)	243 (5.9)		58 (1.4)	5365	4971 (92.7)	319 (5.9)		75 (1.4)
May	5355	3024 (56.5)	1845 (34.5)	18 (.3)	468 (8.7)	7442	4203 (56.5)	2564 (34.5)	25 (.3)	650 (8.7)
June	3810	1920 (50.4)	858 (22.5)	20 (.5)	1012 (26.6)	5755	2899 (50.4)	1296 (22.5)	31 (.5)	1529 (26.6)
July	14288	4752 (33.3)	7632 (53.4)	7 (.1)	1897 (13.3)	19289	6415 (33.3)	10303 (53.4)	10 (.1)	2561 (13.3)
Aug	13024	6528 (50.1)	5003 (38.4)		1493 (11.5)	17321	8682 (50.1)	6654 (38.4)		1985 (11.5)
Sept	13593	8748 (64.4)	4832 (35.6)	13 (.1)		17806	11459 (64.4)	6330 (35.6)	17 (.1)	
Total	82707	51817 (62.7)	22573 (27.3)	60 (.1)	8257 (10.0)	111014	69296 (62.4)	30365 (27.4)	86 (.1)	11267 (10.1)

Table 34 Cont'd.

Period	Whale Cove (reported edible wt)					Whale Cove (estimated edible wt)				
	Total Edible Weight (kg)	Weight (kg) per Category (bracketed figures are % of total)				Total Edible Weight (kg)	Weight (kg) per Category (bracketed figures are % of total)			
		Terrestrial	Marine	Fowl	Fish		Terrestrial	Marine	Fowl	Fish
1984										
Oct ¹	3934 ¹	1346 (34.2)	2088 (53.1)	12 (.3)	488 (12.4)	3934 ¹	1346 (34.2)	2088 (53.1)	12 (.3)	488 (12.4)
Nov	3430	2762 (80.5)	429 (12.5)		239 (7.0)	4528	3646 (80.5)	566 (12.5)		316 (7.0)
Dec	3496	3072 (87.9)	386 (11.0)		38 (1.1)	3636	3195 (87.9)	402 (11.0)		39 (1.1)
1985										
Jan	5661	5522 (97.5)	129 (2.3)		10 (.2)	5661	5522 (97.5)	129 (2.3)		10 (.2)
Feb	3188	2910 (91.3)	256 (8.0)	9 (.3)	13 (.4)	3188	2910 (91.3)	256 (8.0)	9 (.3)	13 (.4)
Mar	5470	5143 (94.0)	327 (6.0)			5634	5297 (94.0)	337 (6.0)		
Apr	3121	2978 (95.4)	129 (4.1)		14 (.5)	3121	2978 (95.4)	129 (4.1)		14 (.5)
May	4421	3471 (78.5)	458 (10.4)	237 (5.4)	255 (5.8)	4685	3679 (78.5)	485 (10.4)	251 (5.4)	270 (5.8)
June	2026	1488 (73.5)	229 (11.3)	28 (1.4)	281 (13.9)	2126	1562 (73.5)	240 (11.3)	29 (1.4)	295 (13.9)
July	3668	2601 (70.9)	712 (19.4)	46 (1.2)	309 (8.4)	3668	2601 (70.9)	712 (19.4)	46 (1.2)	309 (8.4)
Aug	12288	2832 (23.0)	8414 (68.5)		1042 (8.5)	12288	2832 (23.0)	8414 (68.5)		1042 (8.5)
Sept	3408	2069 (60.7)	1273 (37.3)	58 (1.7)	8 (.2)	3408	2069 (60.7)	1273 (37.3)	58 (1.7)	8 (.2)
Total	54111	36194 (66.9)	14830 (27.4)	390 (.7)	2697 (5.0)	55877	37637 (67.4)	15031 (26.9)	405 (.7)	2804 (5.0)

Table 35. Prices of commodities sold in each Keewatin community compared to country foods sold in Frobisher Bay (new name Iqaluit). Prices were taken January 1986.

Community	Retail Price Per Kilogram						
	Pork Chops	Round Steak	Chicken	Charr	Muktak	Caribou	Seal
Baker Lake	8.61	10.52	5.67				
Chesterfield Inlet	8.06	9.81					
Coral Harbour	8.95	11.69	7.95	3.30(w) ¹			
Eskimo Point	8.81	15.89	6.10	4.95(w)			
Rankin Inlet	7.80	9.69	5.83	10.00(f)			
Repulse Bay	10.65	18.79	8.95	3.85(w)			
Whale Cove	8.81	10.88	5.32	3.30(w)			
Frobisher Bay					7.17	9.92	5.51

¹w = whole fish
f = fillets

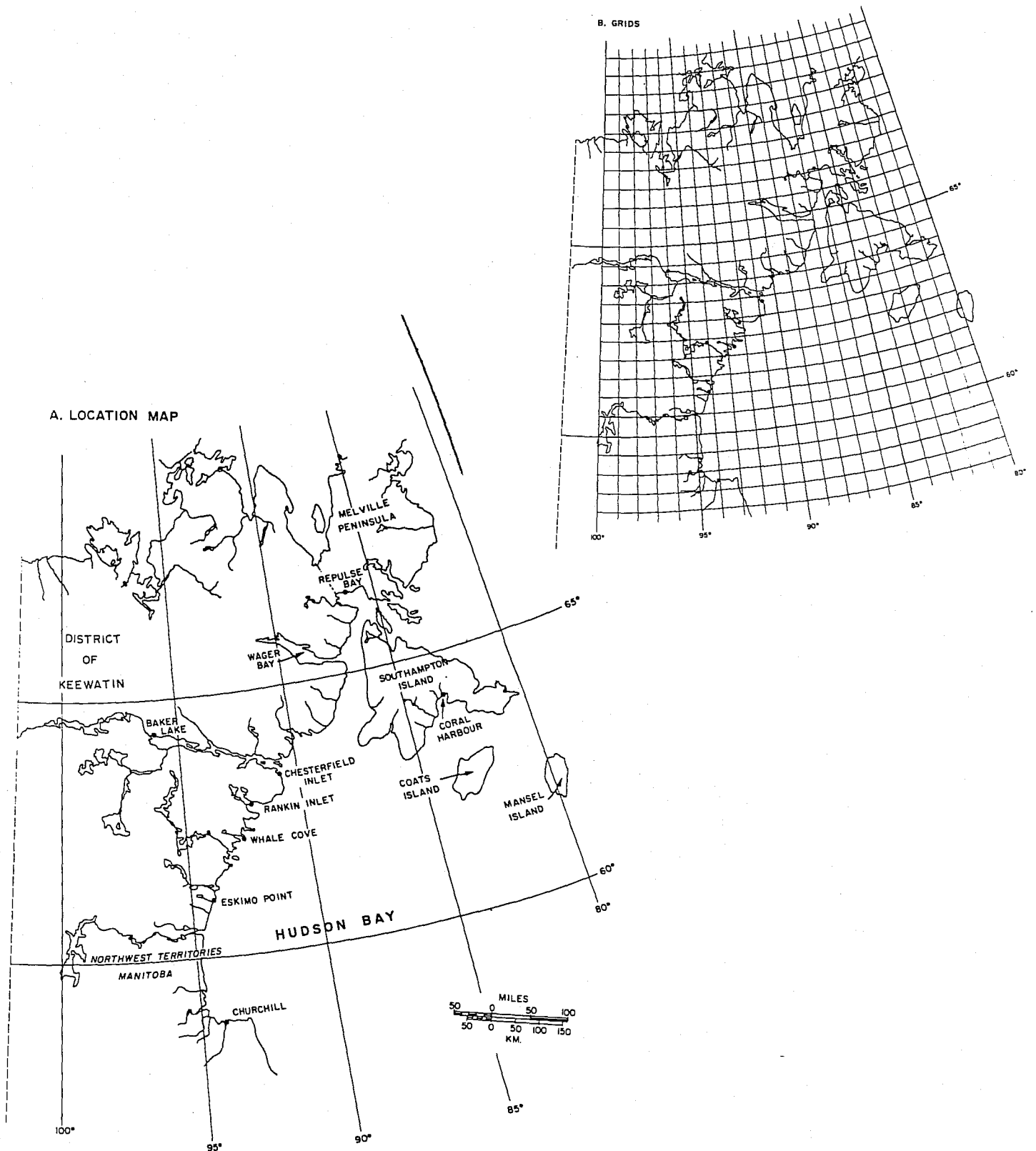


Fig. 1. Map of Keewatin District showing the seven communities surveyed during the harvest study and the zonal grid used to locate kills.

Fig. 2. Zone map for the harvest years, October 1984 through to September 1985, showing the annual harvest of ringed seal by area in the Keewatin District. Numbers enclosed by a circle were not identified by zone but were reported in the community harvest.

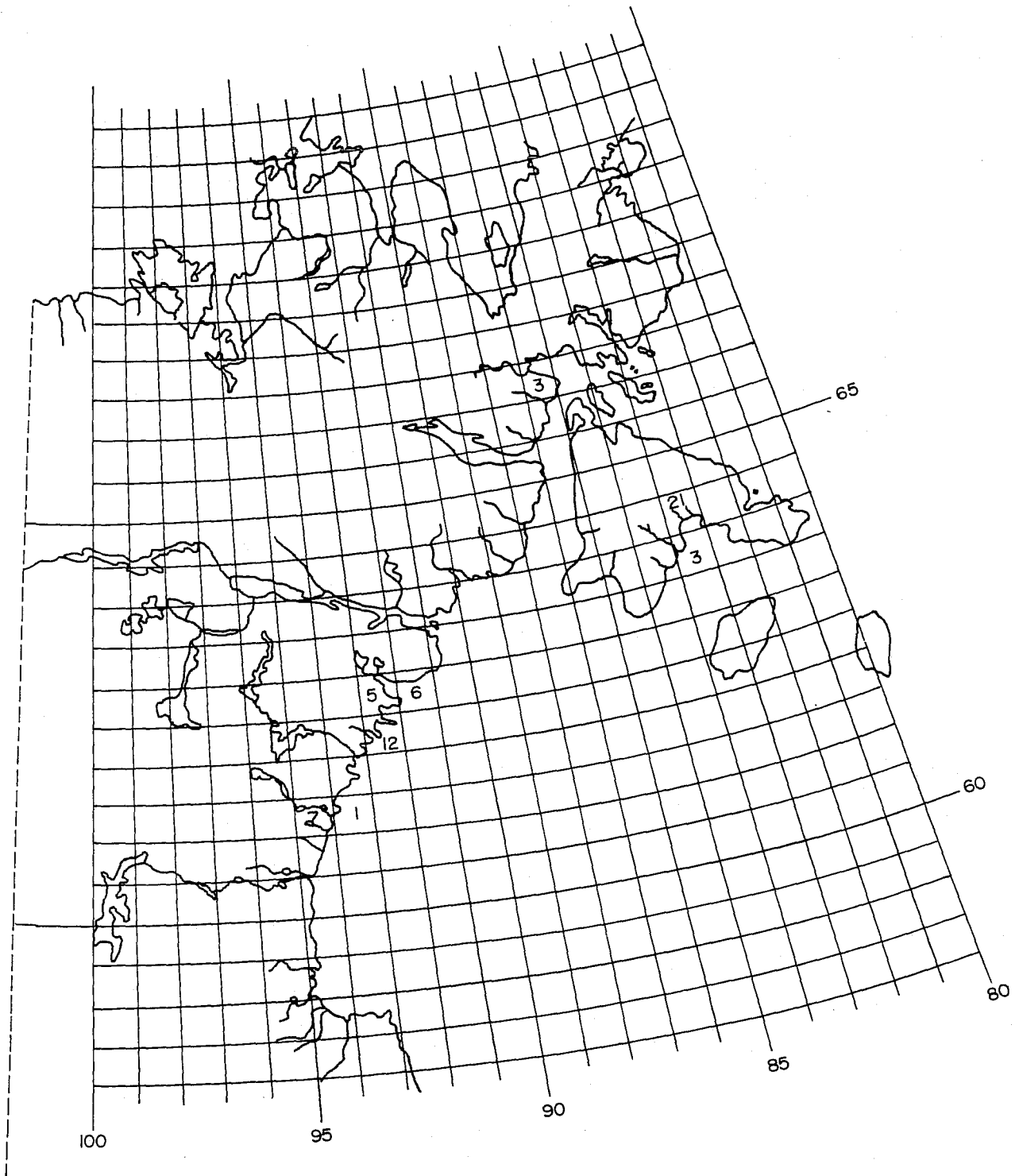


Fig. 3. Zone map for the harvest year, October 1984 through to September 1985, showing the annual harvest of common eider by area in the Keewatin District.

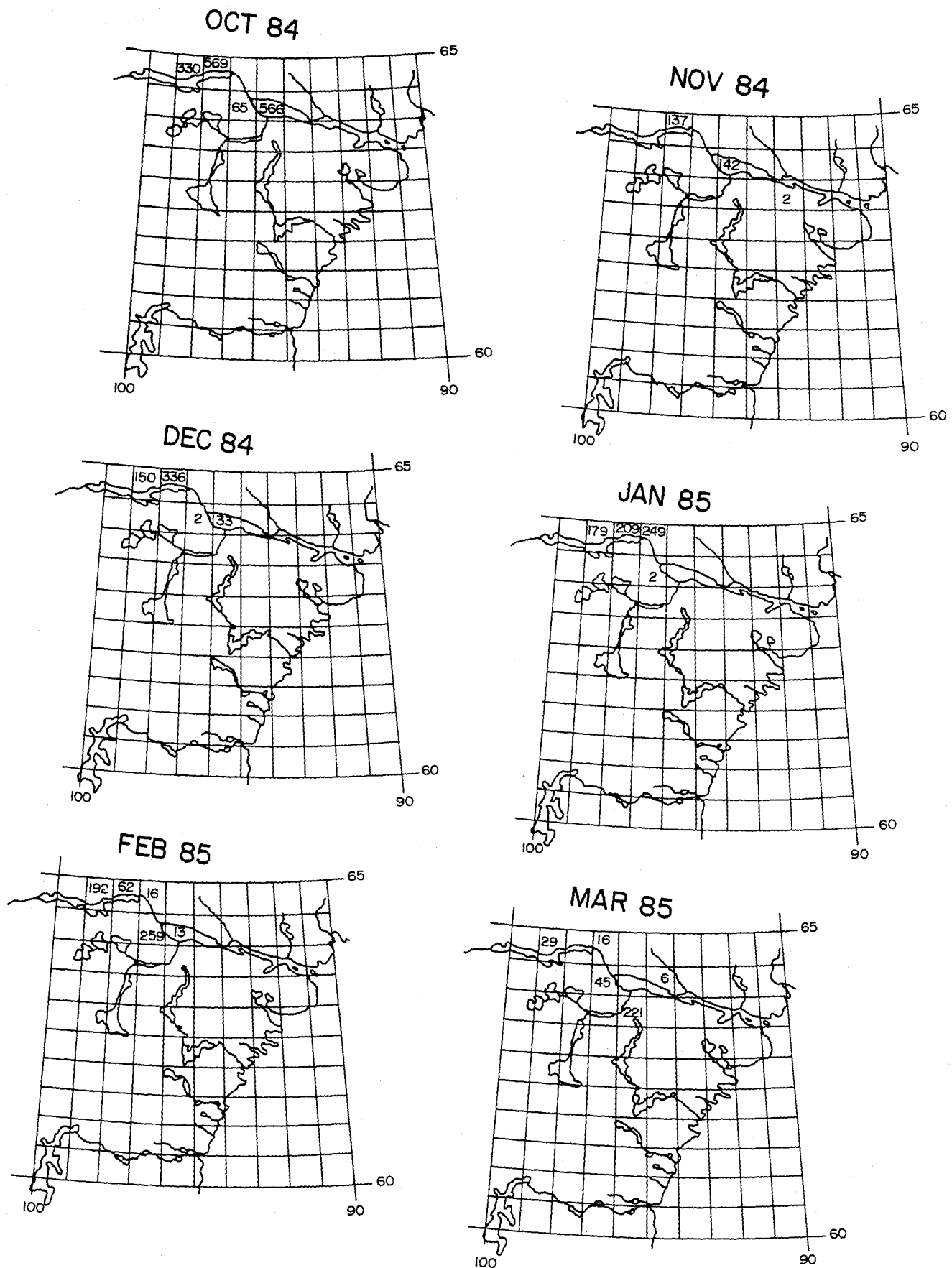


Fig. 4. Zone maps showing the monthly harvest of caribou by area for Baker Lake for the period October 1984 to September 1985.

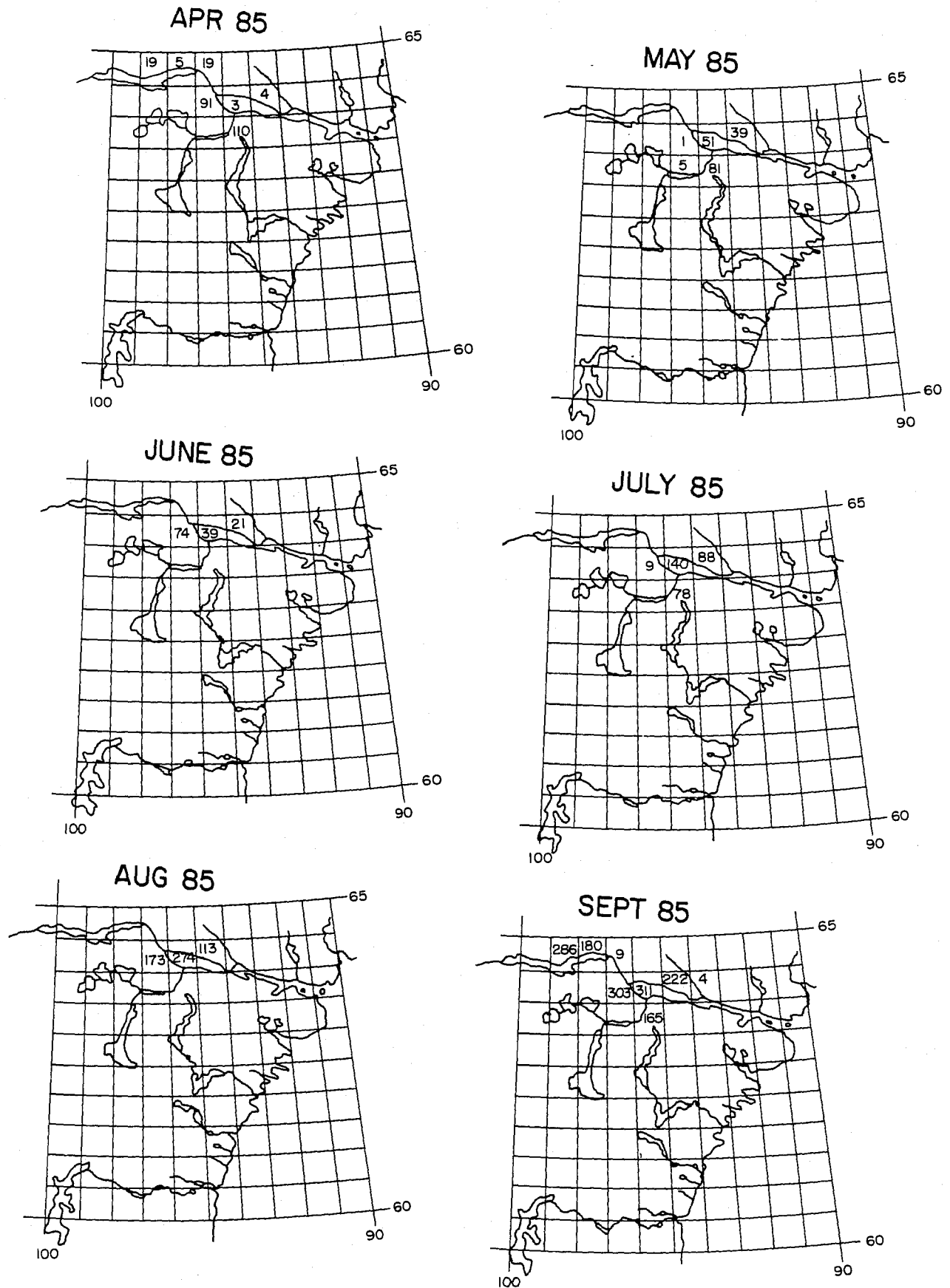


Fig. 4. Cont'd.

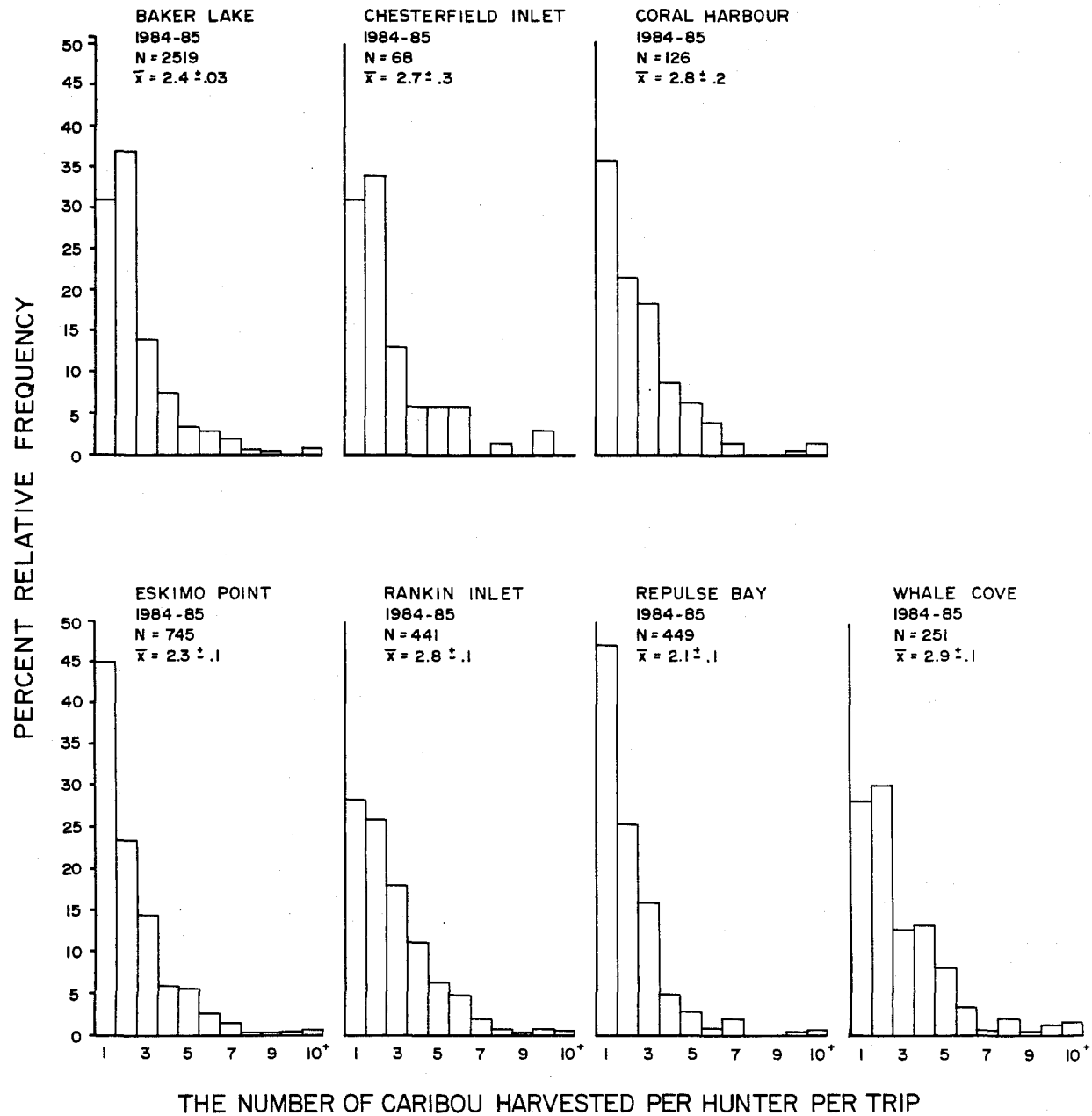


Fig. 5. Histogram showing the percent relative frequency of caribou harvested per hunt by hunters from the seven Keewatin communities for the period October 1984 to September 1985.

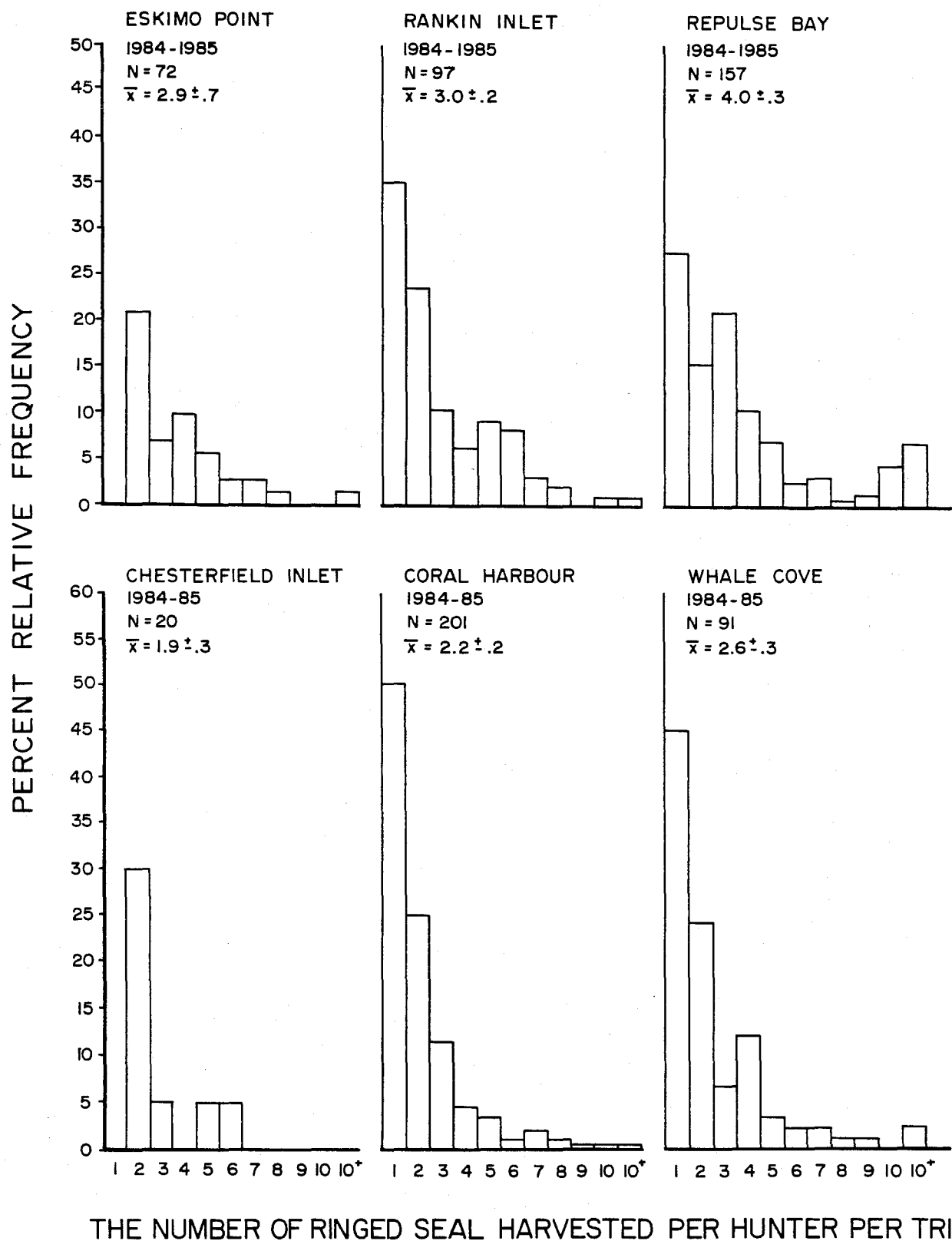


Fig. 6. Histogram showing the percent relative frequency of ringed seal harvested per hunt by hunters for the period October 1984 to September 1985.

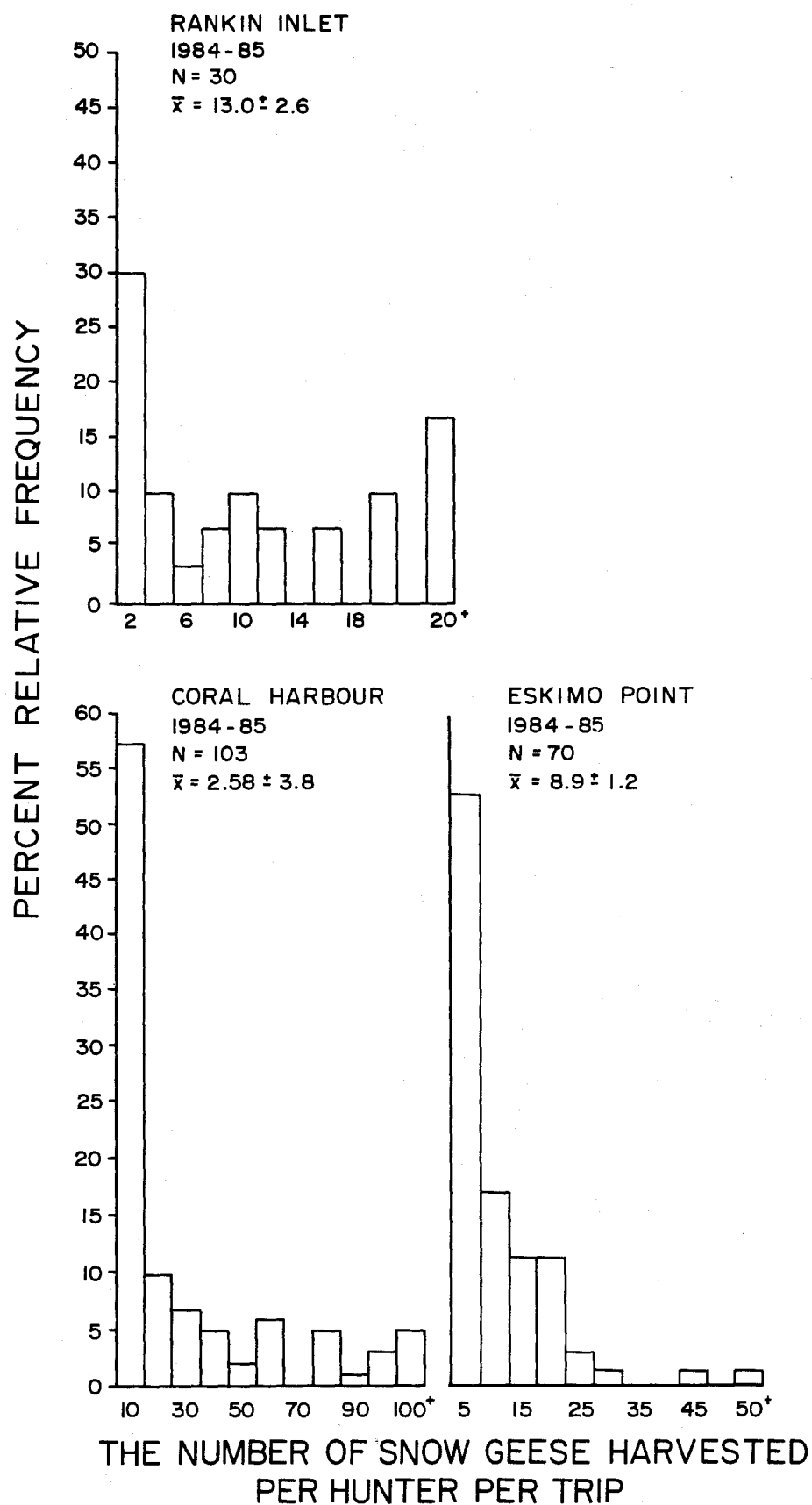


Fig. 7. Histogram showing the percent relative frequency of snow geese harvested per hunt by hunters for the period October 1984 to September 1985.

Appendix 1. Members of the Steering Committee for the Keewatin Wildlife Federation Harvest Study.

Chairpersons

Mr. F. McFarland Northern Affairs Program, Department of Indian
and Ms. D. Stewart Affairs and Northern Development.

Members

Mr. R. Cole Canadian Wildlife Service, Department of the
Environment.

Mr. R. Graf Department of Renewable Resources, Government of the
Northwest Territories.

Mr. R. Peet Department of Fisheries and Oceans.

Mr. A. Angootealuk President, Keewatin Wildlife Federation.

Mr. L. Gamble Regional Resource Manager, Keewatin Harvest Study.

Ms. V. Curley Assistant Regional Resource Manager, Keewatin Harvest
Study.

Appendix 2. Calculation of Estimated Harvest.

This appendix lists the steps used to arrive at an estimate of total monthly hunter kill using the interview data from Eskimo Point, September, 1982 and shows an alternative method of calculating the theoretical kill factor as suggested by Topolniski and Thompson (D. Topolniski and P. Thompson 1984).

The letter designations for each category are defined in the text under the section on data analysis. The bracketed statement is a shortened designation for these definitions for the purposes of this appendix.

I. Interview Data, Eskimo Point, September, 1982.

<u>Category</u>	<u>Number of hunters</u>
A (successful)	102
B (unsuccessful)	23
C (didn't hunt)	85
D (hunted but not interviewed)	14
E (out of hunt area)	6
F (activities not known)	8

II. Calculations common to both methods

1. the known number of hunters who hunted = $A + B = 102 + 23 = 125$.
2. the success ratio of the hunters that hunted and were interviewed =

$$\frac{A}{A + B} = \frac{102}{102 + 23} = 0.816 = G$$
3. the estimated success of those out hunting but not interviewed =
 $G \times D = 0.816 \times 14 = 11.4 = H$
4. the total number of hunters whose activities are accounted for =
 $A + B + C + D + E = 102 + 23 + 85 + 14 + 6 = 230 = I$
5. the total number of hunters that could have hunted =
 $I + F = 230 + 8 = 238 = J$
6. the participation ratio = $\frac{A + B + C}{J} \times 100 = \frac{102 + 23 + 85}{238} \times 100 = 88.2\%$
7. the estimation of mean monthly kill by species = $N \times$ number harvested for each species from the fieldworker's reports for each hunter in Category A.

III. Calculations for the actual kill factor following Gamble (1984)

1. the estimated success ratio of successful hunters interviewed in relation to the total hunters whose activities are accounted for =

$$\frac{A}{I} = \frac{102}{230} = 0.444 = K$$
2. the estimated success of hunters whose activities are unknown =
 $K \times F = 0.444 \times 8 = 3.6 = L$

3. the estimated total success = $A + H + L = 102 + 11.4 + 3.6 = 117 = M$

4. the theoretical kill factor = $\frac{M}{A} = \frac{117}{102} = 1.14 = N$

IV. Calculation for theoretical kill factor following Topolniski and Thompson (1984)

1. the rate at which all hunters actually hunted =

$$\frac{A + B + D}{I} = \frac{102 + 23 + 14}{230} = \frac{139}{230} = 0.6043 = K.$$

2. the estimated success of hunters whose activities are unknown =

$$F \times G \times K = 8 \times 0.816 \times 0.6043 = 3.94 = L.$$

3. the estimated total success = $A + H + L = 102 + 11.4 + 3.9 = 117.3 = M.$

4. the theoretical kill factor = $\frac{M}{A} = \frac{117.3}{102} = 1.15 = N.$

Table 22 compares the theoretical kill factors derived from both methods that were calculated for each month of the 1984-85 survey period for each community.