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NATIVE HARVEST OF WILDLIFE
IN THE KEEWATIN REGION, NORTHWEST TERRITORIES
FOR THE PERIOD OCTOBER 1983 TO SEPTEMBER 1984

by

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This is the 8th Technical Report
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PREFACE

This report is presented in fulfillment of Department of Supply and Services Contract DSS 25 S.T.A. 7138-04-0001 let to the Keewatin Wildlife Federation to conduct a wildlife harvest study in the Keewatin Region - Phase II. 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 by Mr. F. McFarland 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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ABSTRACT

Gamble, R.L. 1987. Native harvest of wildlife in the Keewatin Region, Northwest Territories for the period October 1983 to September 1984. Can. Tech. Rep. Fish. Aquat. Sci. 1543: v + 82 p.

Harvest data have been collected from Inuit hunters of the Keewatin Region since 1981 under the auspices of an ongoing program operated by the Keewatin Wildlife Federation. Funding has been provided through interested federal and territorial government departments. Results for the period October 1981 to September 1983 have been published in Gamble (1984). This report is an update and supplement to that document for the survey period October 1983 to September 1984. Data were aggregated at a community level. There were less problems with the collection of harvest data on a consistent basis during the latter period of survey than was experienced from 1981 to 1983. This was attributed to a greater appreciation of the objectives of the study by residents and a more concerted effort by fieldworkers in the collection of data probably because of better training and more experience. Survey techniques underwent few changes because they appeared appropriate to obtain the required information. The analysis of harvest data in this report has been enhanced by developing computer programs which provide the distribution of selected species by geographic zone and the breakdown of harvest data into various categories by age group of hunter. The results of these analyses cover the entire period from October 1981 to September 1984.

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 1983 to September 1984. Can. Tech. Rep. Fish. Aquat. Sci. 1543: v + 82 p.

Des données sur les prises/captures sont recueillies auprès de chasseurs inuit de la région du Keewatin depuis 1981 dans le cadre d'un programme continu dont la Keewatin Wildlife Federation assure l'application. Le financement nécessaire pour le projet vient des ministères fédéral et territorial en cause. Les résultats pour la période d'octobre 1981 à septembre 1983 ont déjà été publiés (voir rapport technique no. 1282); le présent rapport constitue donc une mise à jour et un complément à ce rapport pour la période d'octobre 1983 à septembre 1984. Les données ont été rassemblées par collectivité; pour cette période, il a été plus facile de recueillir les données sur les prises/captures de manière conséquente que lors de la période de 1981 à 1983, parce que les résidents étaient davantage au fait des objectifs de l'étude et que les responsables de la collecte des données

sur le terrain ont travaillé avec plus de concertation sans doute parce qu'ils étaient mieux formés et qu'ils avaient plus d'expérience. Les techniques d'étude n'ont subi que de très légères modifications, car elles semblaient convenir pour la collecte des données requises. L'analyse des données sur les prises/captures dans ce rapport a été améliorée par la mise au point de programmes informatiques permettant d'obtenir la distribution d'espèces choisies par secteur géographique et de répartir ces données en diverses catégories selon les chasseurs, par groupe d'âge. Le résultat de ces analyses porte sur la totalité de la période visée, soit d'octobre 1981 à septembre 1984.

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

INTRODUCTION

In September, 1981, a study was initiated for the collection of harvest data from hunters residing in the Keewatin Region of the Northwest Territories. The preliminary results for the period October 1981 to September 1983 have been published in Gamble (1984). This report covers the period October 1983 to September 1984 and is an update and supplement to the first report. Hunter is defined in the MATERIALS AND METHODS section below and throughout this report hunter, harvester, trapper and fisherman are used as synonyms.

The main objectives of the study as specified in the contract covering this survey period 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 (approximately 386 000 km²), includes the entire Keewatin district of the Northwest Territories and contains seven permanent communities (Fig. 1). Listed north to south they are Repulse Bay, Baker Lake, Coral Harbour, Chesterfield Inlet, Rankin Inlet, Whale Cove and Eskimo Point. For ease of discussion the convention has been adopted of listing these communities alphabetically throughout this report. Current information about these communities including population size can be obtained from the NWT Data Book (1984).

Historically the Inuit were not concentrated in these locations but were scattered in small groups that migrated with the seasons to various sites throughout the boreal-tundra ecotone of the Keewatin region, and along the adjacent coastline of Hudson Bay. Some hunters still hunt from outpost camps for specific species such as caribou rather than from a more centralized community base.

MATERIALS AND METHODS

GENERAL

For this survey period fieldworkers continued to try and include 100% of the region's hunters in their monthly collection of data. Included in the term hunter are Inuit males and females over 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. Even with the inclusion of this latter category Inuit comprise over 99% of the total hunters in the region and account for 99% of the harvest for all species. The study design remained the same as described in Gamble (1984) and data were aggregated at the community level. A 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.

HUMAN RESOURCES

Following the procedure developed during the 1981-1983 preliminary study (Gamble 1984) Inuit 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 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.

With relocation of the harvest study offices to Rankin Inlet in October 1983, some changes were made at the Project Office. The Project Manager resigned in October 1983 and rather than fill the vacancy, duties were re-assigned. The Project Biologist was given the added responsibility of project direction. A part-time Inuit employee, who was also the Keewatin Wildlife Federation's (KWF) Office Manager, assisted in communicating with fieldworkers, Hunters' and Trappers' Associations, Hamlet Councils, and resident hunters. This person was also responsible for translation of data received, from Syllabics into English. A part-time secretary was also available to the study and assisted with data entry.

MATERIALS

There were few revisions made to the data sheets, calendars or field diaries used previously and described by Gamble (1984).

Field diaries changed from a bi-weekly to a monthly format (Fig. 2) and the Inuktitut and English versions were combined into a single

diary. This was done for reasons of size (portability), cost, and ease of distribution. Calendars were not provided for the six-month period January to June 1984 because of financial constraints but these were provided for the remainder of the study period.

DATA COLLECTION AND ANALYSIS

The system used to analyze harvest data and to arrive at estimates of the total hunter kill by community 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. The number of animals killed per species were listed 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 second month past an actual hunting episode if acceptable reports were submitted by fieldworkers on hunters who were missed in the first interview period. Acceptable reports were determined through a subjective judgement by the Project Biologist based on his experience and a comparison of the thoroughness of the information provided in late reports with 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. The term participation may be ambiguous. For this study 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. This ratio is intended to give a measure of the coverage of the potential hunter population each month by the fieldworker. It is not meant to give a measure of the hunters involved in each month's harvest. 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. Appendix 2 gives an analogue of the steps used to arrive at the estimate of total monthly kill using interview data.

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.

DATA PROCESSING

The project was designed to make use of computers to accommodate the timely analysis of data and to eliminate transcription errors as far as possible. Gamble (1984) describes the eight interrelated subsystems (i.e. entry, participation, hunters, zones, animals, transfer, annual and monthly) that were developed for the 1981-83 preliminary survey using a data base by Stoneware (DB Master 1982) for the Apple II microcomputer.

For this survey period the analysis of harvest data has been enhanced by the addition of several programmes which allow the presentation of data on the distribution of harvested species by geographic zone (Fig. 3 to 5) and a breakdown of the reported kill by species over a range of age groups for the hunters. Following Gamble (1984), hunters were arranged into age groups automatically calculated from the birth-date and the current date. Age classes used were: 0-15, 16-30, 31-45, 46-60, 61-75, and 76-99. The design of the program dictated there had to be a category for hunters with unknown ages. The age group 76-99 was used for this purpose because only 8 hunters of known age fell within this group.

In Tables 23 to 29 the kill statistics for each species over the range of age groups of hunters are reported as the number of animals harvested per age class of hunter. In addition data are presented on the distribution of hunters who were successful in obtaining a harvest over the range of ages of hunters for each community and summarized for the region in Table 30.

For the 1981-83 survey edible weight values for each species were calculated from the data by hand. For this survey period, a programme was devised to compute these values. The DB master system was modified to allow the calculation of the frequency that a particular number of a given species is harvested relative to the total number of hunting episodes over the harvest year by community. In Fig. 6 to 8 this has been termed the relative frequency of a selected species.

RESULTS

Tables 1 through 21 summarize the results from analysis of the data collected between October 1983 and September 1984. Tables 1 through 7 give the reported monthly harvest by species for each community expressed as numbers of animals and also the percent of hunters reporting (i.e. participation ratio). Tables 8 through 14 give the estimated monthly harvest by species for each community expressed as number of animals. Tables 15 through 21 provide the annual reported and estimated harvest by species for each community. In these latter tables, the mean monthly harvest per hunter and the standard deviation about the mean are also reported.

Tables 1, 8 and 15 give the harvest information for the community of Baker Lake and cover a full 12 month period. The separation of the caribou harvest into herd categories is a difficult problem in the Baker Lake area as this community has seasonal access to at least three herds. From January to April 1984, caribou harvested north and slightly west of Baker Lake were assigned by the author to the Beverly herd using criteria defined in Gamble 1984. However, aerial surveys over the area by the Government of the Northwest Territories Department of Renewable Resources indicated that some animals had probably migrated from the northeast. This suggests some animals defined as being from the Beverly herd, during the January to April period may actually have been from the Wager Bay caribou herd. Only continuous aerial reconnaissance would have provided an accurate separation.

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 in this community is high, there is some question as to the accuracy of this participation ratio. This is elaborated on in the discussion section. The separation of caribou into herds by location of harvest was treated in the same fashion as in Gamble (1984).

Tables 3, 10 and 17 give harvest levels for the community of Coral Harbour for a 12 month period. However data was not collected on hunter participation until February 1984. The values for the months of October to January in Table 3 represent only successful hunters. Due to inexperience the fieldworker only collected information from successful hunters and did not categorize those hunters who were unsuccessful, did not hunt etc. This mistake was rectified in February 1984. Therefore for the period October 1983 to January 1984 the best estimate of the actual community harvest was taken to be the reported harvest. This is consistent with the approach taken by Gamble (1984; page 11, Participation).

Tables 4, 11 and 18 give the harvest information for the community of Eskimo Point for a 12 month period. The fieldworker resigned in May without notifying the Project Office, and data collection was late for this month due to delays in acquiring and training a new worker. Therefore results for May may not be complete, particularly for some species such as geese or for the goose egg harvest.

Tables 5, 12 and 19 give the data collected at the community of Rankin Inlet for a 12 month period. Some commercial landings for char have inadvertently been included with the domestic harvest. During the survey three fishermen reported a harvest of 673 char as part of the domestic harvest. However it was subsequently determined these were sold commercially through the Rankin Inlet fish plant and should not have been included. If commercial landings are inadvertently included with the domestic landings this would result in an overestimate of the total domestic harvest. This situation would be exacerbated if the landings were also included in the commercial harvest because a double counting would occur. Thus far it seems that such inclusions have been negligible to the overall estimate of domestic harvest. However, this source of error should be continuously checked so that a large error does not occur.

Tables 6, 13 and 20 give the data received from Repulse Bay for a 12 month period. Emigration and to a lesser extent immigration has made it difficult to establish an accurate hunters list for this community. Periodic reviews of the situation suggests that there actually may be less than 90 hunters, the number used in determining the participation ratio since 1981. If the number of hunters is actually less than 90 then the participation ratio is probably underestimated and the estimated harvest probably overestimated. The implications of this are covered in the discussion section.

Tables 7, 14 and 21 show the harvest reported by the community of Whale Cove for an 11 month period. Harvest data were not collected during October because of the resignation of the previous fieldworker without notice and subsequent delays in acquiring a suitable replacement with the proper training. This also resulted in an absence of data on hunter participation for the months of November and December 1983. The values for these months in Table 7 represent only successful hunters. As with the

Coral Harbour data above the reported harvest was taken as being the best estimate of the actual community harvest for these two months.

Table 22 gives the monthly theoretical kill factors which were used in determining the estimated harvest for each community. Error is greatest for those values significantly larger than one as discussed by Gamble (1984).

Tables 23 through 29 give kill statistics for each species over the range of age groups for hunters covering the years October 1981 to September 1982, October 1982 to September 1983 and October 1983, to September 1984. In communities where land-locked Arctic charr were reported, that harvest was combined with sea run Arctic charr in these tables. The data on animals harvested by hunters of unknown ages were not included. This accounts for small discrepancies in the monthly and annual harvest figures when comparing these tables with Tables 1 to 7 and 22 to 29 of this report and odd numbered Tables 1 through 13 in Gamble (1984).

Table 30 presents 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. No hunters reported in the age category 0 to 15 for the communities of Repulse Bay and Whale Cove. Also there were no harvest data for Whale Cove for the month of October 1983.

Table 31 gives the estimated individual species values for edible weight (kg) used to calculate the total edible weights given Tables 32 and 33. These individual values were defined using the information sources noted and are the same as those given in Gamble (1984; Table 16). In Table 32 the total edible weight values for reported and estimated categories are the sum of the annual species values. These totals differ slightly from those given in Table 33 because of rounding off of values.

Table 34 provides a list of prices (taken January 1985) for meat and fish commodities retailed in stores in the seven Keewatin communities compared to country food products retailed in Frobisher Bay. These can be used to determine a current commercial value for country products.

Caribou are an important component of the native harvest in the Keewatin Region. Table 35 gives the reported and estimated harvest of these animals by herd and category for each community for the survey period and summarizes the harvest for the entire region.

Table 36 gives the age distribution of hunters for the seven communities in the region for this survey period.

Figures 3, 4 and 5 show the harvest of selected species, by location for the study years 1981-82, 1982-83 and 1983-84. As examples the annual harvest of ringed seal and eider are shown for the entire region. Also the harvest of caribou is shown on a monthly basis for the

community of Baker Lake. Data on caribou were available for Baker Lake for a 10 month period in 1981-82, 11 months in 1982-83, and 12 months in 1983-84.

Figures 6, 7 and 8 are histograms showing the relative frequency of caribou, ringed seal and snow geese harvested per hunt for the study years 1981 to 1984. Data were not available or samples were too small to provide histograms for all species in every community for the examples selected.

These figures are presented as examples to show the capability of the study to provide geographic or graphical information on harvest. It is not possible to present the entire harvest in this way in a report because of the sheer volume of figures that would be required depending on the categories or harvest presented. However such information can be generated upon specific request to the study.

DISCUSSION

The results given in Tables 1 through 21 are an improvement over the results reported by Gamble (1984) for the preliminary study. Data collection was less variable both within and between communities for this survey period with the possible exception of Chesterfield Inlet. This overall improvement can be attributed to several factors:

- 1) an improvement in collection effort,
- 2) fewer instances of lost data,
- 3) less turnover of fieldworkers and a quicker response time in replacing those who resigned,
- 4) a hunter public which was better informed concerning the objectives of the study than previously,
- 5) improved translation capability, and
- 6) better information flow.

Other factors such as the recall of individual hunters, availability of species to harvest and financial constraints had an influence on the study but were beyond the control of project personnel. The comment by Usher et al. (1985) that reporting rates may have levelled off to a near maximum at the end of the preliminary study does not seem to be supported in light of the overall increase in participation rates for this survey period. The primary difficulty which must be addressed continually is the maintenance of timely and consistent reporting from all communities.

COLLECTION EFFORT

One of the major objectives of the study is to involve all Inuit from the region as participants in order to acquire an approximation of the kill that is as close to the actual harvest as possible. The entire system is dependent upon fieldworkers contacting as many traditional users of wildlife as possible, and the subsequent cooperation of hunters in providing the necessary harvest information. The goal

for fieldworkers was to try and include 100% of each community's hunters in the monthly collection of data. Putting this into practice was difficult and requires ongoing attention for several reasons.

Socially, this kind of data collection is foreign to Inuit culture and there is a reluctance to divulge information of this sort especially to strangers. This problem is not unique to Inuit. Cooperation has increased largely because of the involvement of the Keewatin Wildlife Federation and because the majority of project personnel are Inuit. Also the publication of the results for the preliminary study (Gamble 1984) and especially the Inuktitut translation gave visible evidence of the work done.

Participation is a measure of the amount of effort (number of contacts) made by fieldworkers at a community level and this effort directly affects the results that were obtained. The worker must make an effort to contact all hunters and/or collect all the relevant species specific data. Data may be incomplete for particular species if all hunters are not contacted or the fieldworker fails to record all the data. Low participation rates or high theoretical kill factors (Table 22) are a measure of collection effort and can be used by the project manager to indicate where specific attention is required especially when dealing with newly hired fieldworkers. For this survey period all communities show a marked improvement in participation ratio over the preliminary survey. For instance data were available on the reported harvest on a consistent basis for all communities except for the month of October 1983 for Whale Cove. In addition complete participation information was collected with the exception of November and December 1983 at Whale Cove and October 1983 to January 1984 at Coral Harbour. In comparison during the preliminary survey complete data were only available for the community of Eskimo Point.

Problems in estimating harvest during this survey period mainly involved the communities of Chesterfield Inlet and Repulse Bay. At Chesterfield Inlet, there is some question as to the accuracy of the data on hunter participation. Even though the participation ratio is consistently high for the survey period for this community, some accounts of individual hunters harvests may not have been completely recorded.

At Repulse Bay the participation ratio may not be a correct indicator of hunter participation. As previously noted in an earlier section participation ratios may underestimate hunter participation in this community and subsequently overestimate the community harvest. For example, narwhal catch control tags documented by Fisheries and Oceans for Repulse Bay, report a total of nine narwhal harvested during the report period whereas the study reports a harvest of 20 and an estimated harvest of 31. Fisheries and Oceans figures are probably a low estimate as many hunters tag only males because of the tusk. Females often go unreported. Staff of both KWF and Fisheries and Oceans believe the actual harvest is likely closer to

20. This contention is further supported by data provided in Table 30 (i.e. a community total of 85 successful hunters in Repulse Bay over the entire study year). This suggests the fixed value of 90 hunters used for Repulse Bay may be in error.

LOST DATA AND FIELDWORKER TURNOVER

The only community where there were no harvest data collected for a short period was Whale Cove for the month of October 1983 as noted above. In addition some data were lost on hunter participation for both Coral Harbour and Whale Cove. The most common reason data were not obtained was because some fieldworkers resigned without first informing project staff. This was sometimes exacerbated by subsequent difficulty in finding replacements to resume collection of information in that community. The solution to this problem is effective staff training involving initial and refresher training coupled with constant communication with fieldworkers and Hunters and Trappers Associations in communities. For example a spring workshop for fieldworkers was held March, 1984 to emphasize the need to contact all hunters and collect data on all species harvested. When resignations occurred, project staff visited the community and provided training to new workers after consultation with the relevant Hunters and Trappers Association who recommended the new candidate.

Other problems mentioned in Gamble (1984) such as data lost in the mail have considerably improved and were not factors that affected the study for this survey period.

MORE INFORMED HUNTER PUBLIC

Using existing communication channels in each community such as Hunters and Trappers Associations, Government of the Northwest Territories (GNWT) liaison officers, GNWT wildlife officers and the local radio station, the project has established a better informed public who are more willing to provide data on their wildlife harvest. This has led to an improvement in the quality of the data and a greater cooperative effort on the part of the hunters. The relocation of the harvest study office to Rankin Inlet also improved communication because of its more central location vis-a-vis the other communities. Also as noted above the publication of the results of the preliminary study, especially the Inuktitut version, did much to re-stimulate hunter interest in the study.

TRANSLATION DIFFICULTIES

In the preliminary study a higher proportion of fieldworkers were fluent only in Inuktitut. The project staff encouraged the hiring of fieldworkers who were also fluent in English where possible but this was not a criterion used to determine eligibility for employment. However it is evident that some of the anomalies associated with translation were resolved because of the higher proportion of bilingual

fieldworkers that are currently employed by the study. The experience accumulated by the project staff over the period of the study has also helped.

Translation of place names is no longer necessary because reporting the harvest by zone does not require the hunter to provide the place name nor require the staff to interpret these data.

INFORMATION FLOW

Analysis of data is dependent on the smooth flow of reports from the fieldworker to the project office. Failure to collect complete data did not occur as frequently as in the preliminary study. As noted above the move of the project office to Rankin Inlet in 1983 improved communication and the exchange of data at all levels.

HUNTER LISTS AND AGE CATEGORIES

An ongoing task of the study is identifying and keeping an up to date a list of hunters. The harvest study office maintains the master list and continually revises it based on information provided by the GNWT, Hamlet councils, federal departments such as National Health and Welfare, and fieldworkers. As the study progresses inconsistencies and omissions are minimized as the hunter data base becomes more complete.

For this survey period there was less missing information regarding hunters than during the preliminary survey. Although most hunters' names and ages are available to the study, on occasion names were missing from community data sheets due to oversights by fieldworkers. Also in a few instances names were not recognizable from Hamlet Council lists and could not be included in the survey's master list. Usually the main piece of missing information was individual hunter ages. For instance not all ages of individuals are available prior to 1950. The level of occurrence of the age identification problem is variable between communities as shown by Table 36.

There are very few hunters who are 76 years or older. In the computer programs this category was used as a catchall for hunters of unknown age and was not included in these tables giving the breakdown of harvest or hunter population by age group except for Table 36.

New analysis of data based on the age categories of hunters is provided in this report. These include information on the harvest by species over a range of ages for the hunters (Tables 23-29) and data on the distribution of hunters who were successful in obtaining a harvest expressed as a percentage over the range of age of hunters (Table 30).

ANALYTICAL PROCEDURES

One consistent error brought to the authors attention relates to the procedure used in estimating the actual harvest (Topolniski and Thompson 1984; Usher et al. 1985). It was suggested by Topolniski and Thompson that a more accurate method of estimating the success of hunters whose activities are unknown should be $F = (A+B+C)/(A+B+C+D+E)$. Usher et al. (1985) concurred with this point, but believed the actual error would normally be small. This problem was brought to the author's attention too late to be corrected in the current report as it involved changes in programs. These changes will be made for the 1984/85 survey year and compared with previous results.

Usher et al. (1985) also questioned the assumptions on which the estimation procedure is based. They contend that a large potential bias and underestimation may occur through projection of the reported harvests of hunters interviewed to the harvests of hunters not interviewed. However, Ron Graf (GNWT) and the author conducted a detailed examination of data for 1982-83 for Eskimo Point and found approximately 93% of the hunters were contacted 10 or more times over a 12 month period and none were contacted less than three times. On examining four sample communities with high participation rates, Graf (Dep. of Renewable Resources, GNWT, personal communication) concluded that non-response bias was not significant.

In addition Usher et al. (1985) mentioned that it was unclear how the harvest study handled those instances where partial information was supplied on hunter activities within a community. Given such circumstances, the available data on hunter activity from a community were reviewed by project staff and a decision was made either to reject this material as inappropriate or proceed with analysis. The data were judged inappropriate where the fieldworker provided data on successful hunters but did not categorize the remaining hunters.

One unresolved problem does exist. When data are not submitted for various reasons and then received several months after the study year-end (September) loading such data and re-analyzing the harvest estimates delays final analysis and report writing by several months. As the Keewatin Wildlife Federation has contractual obligations to produce reports on the study within time constraints, this material is ignored. Although these data may make no appreciable difference to the estimate of the actual harvest, one cannot be certain unless this assumption is tested. If sufficient funding, time, and technical resources become available, this should be done.

CONCLUSIONS

The Keewatin Wildlife Federation Harvest Study has been successful in adapting a survey technique common in a Euro-Canadian setting but intrinsically foreign to the Inuit to elicit statistically valid harvest information from

hunters. The preliminary work has laid the foundation for a process which has involved native people in the gathering of harvest statistics and the initial success has been maintained through the current survey period. This information will be important for jointly establishing with government 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.

During the 1983-84 study year survey techniques underwent few changes because they appeared appropriate to meet requirements. This is borne out by the quality of this study year's harvest data. The analysis of harvest data was enhanced by developing computer programs which provide the distribution of selected species by geographic zone, and the breakdown of harvest into various categories by age group of hunters. Overall, the objectives of the project were met more thoroughly than they were in the preliminary study and results were more reliable as indicated by participation ratios and theoretical kill factors close to 1. Also overall hunter participation rose at the community level.

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Table 1. The reported harvest by Baker Lake hunters, expressed as numbers of animals, for the period October 1983 to September 1984.

| Species | Category ¹ | 1983 | | | 1984 | | | | | | | | | | Sum |
|------------------------------|-----------------------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|-----|
| | | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | | |
| <u>Caribou</u> ² | | | | | | | | | | | | | | | |
| Kaminuriak | M | 26 | 13 | 51 | | | | 65 | | 45 | 275 | 26 | 10 | 511 | |
| | F | 66 | 25 | 28 | | | | 28 | | 3 | 28 | 37 | 21 | 236 | |
| | U | | | | | | | | | 3 | 8 | | 2 | 13 | |
| | Subtotal | 92 | 38 | 79 | | | | 93 | | 51 | 311 | 63 | 33 | 760 | |
| Beverly | M | 35 | 163 | 82 | 151 | 337 | 457 | 424 | 46 | | 73 | | 235 | 2003 | |
| | F | 116 | 271 | 93 | 100 | 247 | 292 | 234 | 7 | | 3 | | 197 | 1560 | |
| | U | | 4 | | | 9 | | | 2 | | 1 | | 5 | 21 | |
| | Subtotal | 151 | 438 | 175 | 251 | 593 | 749 | 658 | 55 | | 77 | | 437 | 3584 | |
| Wager | M | 11 | 4 | 37 | | | | 4 | 356 | 116 | 111 | 267 | 310 | 1216 | |
| | F | 20 | 4 | 31 | 2 | | | | 80 | 17 | 9 | 242 | 191 | 596 | |
| | U | | | | | | | | 29 | 21 | 14 | 2 | 4 | 70 | |
| | Subtotal | 31 | 8 | 68 | 2 | | | 4 | 465 | 154 | 134 | 511 | 505 | 1882 | |
| Other | M | | | | 60 | | | 2 | | | | | 1 | 63 | |
| | F | | | | 58 | | | | | | | | | 58 | |
| | U | | | | 4 | | | | | | | | | 4 | |
| | Subtotal | | | | 122 | | | 2 | | | | | 1 | 125 | |
| Total | | 274 | 484 | 322 | 375 | 593 | 749 | 757 | 520 | 205 | 522 | 574 | 976 | 6351 | |
| Muskox | | | | | | | 13 | | | | | | | 13 | |
| Grizzly Bear | | | | | | | | | | | | | 1 | 1 | |
| Arctic Fox | | | 16 | 275 | 124 | 156 | 180 | 5 | | | | | | 756 | |
| Wolf | | 1 | 3 | 11 | | 12 | 25 | 1 | | | | | | 53 | |
| Ringed Seal | | | | | | | | | 2 | 3 | | | 1 | 6 | |
| Canada Geese | | | | | | | | | 142 | 142 | | | | 284 | |
| Snow Geese | | | | | | | | | 138 | 201 | | | | 339 | |
| Ptarmigan | | | | | | | | | | | | | 349 | 349 | |
| Goose Eggs | | | | | | | | | | 2722 | | | | 2722 | |
| Arctic Charr | | | | | | | | | | 138 | | | 65 | 203 | |
| Lake Trout | | 1732 | 509 | 178 | 76 | 157 | 268 | 241 | 29 | 175 | 72 | 87 | 182 | 3706 | |
| Whitefish sp. | | | | 72 | 50 | 151 | 144 | 135 | 17 | | 17 | 27 | 22 | 635 | |
| Northern Pike | | | | | | | | | | | | | 25 | 25 | |
| Arctic Grayling | | | | | | | | | | | | | 25 | 25 | |
| Percent of Hunters Reporting | | 98.7 | 93.2 | 97.8 | 96.1 | 96.7 | 95.2 | 97.4 | 94.4 | 100.0 | 95.9 | 96.6 | 95.8 | | |

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

²Some of the caribou harvest assigned to the Beverly herd for the period January to April may in fact be part of the Wager Bay herd.

Table 2. The reported harvest by Chesterfield Inlet hunters, expressed as numbers of animals, for the period October 1983 to September 1984.

| Species | Category ¹ | 1983 | | | 1984 | | | | | | | | | | Sum |
|---|-----------------------|-------|------|------|------|------|-------|-------|------|------|------|------|-------|-----|-----|
| | | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | | |
| <u>Caribou</u> | | | | | | | | | | | | | | | |
| Kaminuriak | M | | 1 | 11 | 12 | | | | 25 | | | 5 | | 54 | |
| | F | | | 6 | 15 | | 1 | | 4 | | | 1 | | 27 | |
| | U | | | | | | | | | | | 2 | | 2 | |
| | Subtotal | | 1 | 17 | 27 | | 1 | | 29 | | | 8 | | 83 | |
| <u>North of Chesterfield</u> | | | | | | | | | | | | | | | |
| | M | 12 | 3 | | | 16 | 31 | 38 | 17 | 5 | 10 | 10 | 35 | 177 | |
| | F | 3 | 16 | | | 18 | 9 | 4 | | 1 | 2 | 7 | 5 | 65 | |
| | U | | | | | 5 | | | | 3 | 2 | | | 10 | |
| | Subtotal | 15 | 19 | | | 39 | 40 | 42 | 17 | 9 | 14 | 17 | 40 | 252 | |
| <u>Other</u> | | | | | | | | | | | | | | | |
| | M | | | | | | | | 5 | | | | | 5 | |
| | U | | | | | | | | 1 | | | | | 1 | |
| | Subtotal | | | | | | | | 6 | | | | | 6 | |
| | Total | 15 | 20 | 17 | 27 | 39 | 41 | 42 | 52 | 9 | 14 | 25 | 40 | 341 | |
| Polar Bear | | | 4 | | 1 | | 4 | | | | | | | 9 | |
| Arctic Fox | | | | 25 | 2 | 2 | 2 | 2 | | | | | | 33 | |
| Wolf | | | 2 | 9 | 5 | 4 | | | | | | | | 20 | |
| Ringed Seal | | 6 | 5 | 2 | | | 3 | | 5 | 6 | 3 | 3 | 7 | 40 | |
| Bearded Seal | | 3 | | | | | | | | | | | 1 | 4 | |
| Walrus | | | | | | | 1 | 4 | | 2 | | | | 7 | |
| Beluga | | | | | | | | | | | 3 | 4 | 4 | 11 | |
| Canada Geese | | | | | | | | | | 7 | | | | 7 | |
| Eider | | | | | | | | | | 1 | | | | 1 | |
| Canada Goose Eggs | | | | | | | | | | | | 2 | | 2 | |
| Duck Eggs | | | | | | | | | | 7 | | | | 7 | |
| Other Fowl Eggs | | | | | | | | | | 6 | | | | 6 | |
| Sea Run Arctic Charr | | | | | | | | | 1 | | 11 | 400 | 50 | 462 | |
| Lake Trout | | | 43 | | | | | 1 | 44 | 24 | | | | 112 | |
| Sculpin sp. | | | | | | | | | | 1 | | | | 1 | |
| Percent of Hunters Reporting ² | | 100.0 | 88.3 | 98.3 | 93.3 | 92.7 | 100.0 | 100.0 | 78.1 | 96.9 | 87.0 | 98.4 | 100.0 | | |

¹See Table 1.²Even though the participation ratio is consistently high for the survey period for this community, accounts of 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 1983 to September 1984.

| Species | Category ¹ | 1983 | | | 1984 | | | | | | | | | | Sum |
|--|-----------------------|------|------|------|------|------|------|------|------|-------|------|------|-------|-------|-----|
| | | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | | |
| <u>Caribou</u> | | | | | | | | | | | | | | | |
| Kaminuriak | U | | | | | | 3 | | | | | | | 3 | |
| | Subtotal | | | | | | 3 | | | | | | | 3 | |
| Wager | M | | | | | | | 50 | | | | 6 | | 56 | |
| | F | | | | | | | 65 | | | | 2 | | 67 | |
| | U | | | | | | | 46 | | | | | | 46 | |
| | Subtotal | | | | | | | 161 | | | | 8 | | 169 | |
| Coates | M | | | | 16 | | | | | | | | | 16 | |
| | F | | | | 9 | | | | | | | | | 9 | |
| | U | 1 | | 10 | | | | | | | | | | 11 | |
| | Subtotal | 1 | | 10 | 25 | | | | | | | | | 36 | |
| Southampton | M | | 4 | | | | 5 | 16 | 2 | 2 | 68 | 24 | 121 | | |
| | F | | | | | | 13 | 15 | | | 43 | 23 | 94 | | |
| | U | | | | | | | 2 | | | 53 | 1 | 56 | | |
| | Subtotal | | 4 | | | | 18 | 33 | 2 | 2 | 164 | 48 | 271 | | |
| | Total | 1 | 4 | 10 | 25 | | 3 | 179 | 33 | 2 | 2 | 172 | 48 | 479 | |
| Polar Bear | | 20 | 9 | 1 | 4 | | | | | | | | | 34 | |
| Arctic Fox | | | 126 | 51 | 85 | 52 | 76 | 102 | | | | | | 492 | |
| Wolf | | | | | | | | | 1 | | | | | 1 | |
| Arctic Hare | | | | | | | | 1 | | | | | | 1 | |
| Ringed Seal | | 59 | 87 | 13 | 134 | 97 | 47 | 34 | 40 | 141 | 54 | 14 | 28 | 748 | |
| Bearded Seal | | 2 | 4 | 1 | 4 | 7 | 14 | 2 | | 5 | 9 | 3 | 6 | 57 | |
| Harp Seal | | | | | 4 | 3 | | | | | 1 | 9 | 2 | 19 | |
| Seal sp. (unknown) | | | | | | 1 | | | | | | | | 1 | |
| Walrus | | 5 | | | 4 | | 1 | | 4 | | 2 | 8 | 9 | 33 | |
| Beluga | | 2 | 1 | | 2 | 1 | | | | 3 | 24 | 35 | 15 | 83 | |
| Canada Geese | | | | | | | | | 9 | 100 | | 16 | | 126 | |
| Snow Geese | | | | | 3 | 20 | | 4 | 227 | 5015 | | 21 | 70 | 5360 | |
| Brant Geese | | | | | | | | | 3 | 1 | | | | 4 | |
| Geese | | | | | | | | | 2 | 75 | | | | 77 | |
| Eider | | 12 | 3 | | | | | | 10 | 6 | | | 11 | 42 | |
| Ptarmigan | | 134 | 99 | 127 | 158 | 145 | 28 | 235 | 129 | | | | 62 | 1117 | |
| Swan | | | | | | | | | 4 | | | | | 4 | |
| Fowl | | | | | | 2 | | | | | | | | 2 | |
| Canada Goose Eggs | | | | | | | | | | 70 | | | | 70 | |
| Snow Goose Eggs | | | | | | | | | | 10193 | | | | 10193 | |
| Goose Eggs | | | | | | | | | | 30 | | | | | |
| Sea Run Arctic Charr | | 616 | 366 | 57 | 300 | 11 | 2 | 174 | 76 | 367 | 197 | 480 | 18 | 2664 | |
| Land Locked Arctic Charr | | | | | | | | | | | 9 | | | 9 | |
| Other Freshwater Fish | | | | | | | | | | | | 13 | | 13 | |
| Arctic Cod | | | | | | | | | | 149 | 12 | 3 | | 164 | |
| Percent of Hunters Reporting ² | | 27.6 | 22.9 | 16.2 | 32.4 | 95.2 | 85.7 | 82.9 | 70.5 | 96.3 | 73.3 | 67.6 | 60.0 | | |

¹See Table 1.²Complete information on hunter participation was not collected in this community until February and the values for October to January represent only successful hunters.

Table 4. The reported harvest by Eskimo Point hunters, expressed as numbers of animals, for the period October 1983 to September 1984.

| Species | Category ¹ | 1983 | | | 1984 | | | | | | | | | | Sum |
|------------------------------|-----------------------|------|------|------|------|------|------|------|------------------|------|------|------|-------|------|-----|
| | | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May ² | June | July | Aug. | Sept. | | |
| <u>Caribou</u> | | | | | | | | | | | | | | | |
| Kaminuriak | M | 118 | 44 | 33 | 18 | 45 | 119 | 61 | 6 | 7 | 151 | 66 | 209 | 877 | |
| | F | 189 | 50 | 115 | 157 | 280 | 333 | 254 | 14 | 4 | 17 | 22 | 133 | 1568 | |
| | C | 16 | 8 | | | | | 2 | 1 | | | 15 | 42 | 84 | |
| | U | 31 | 10 | 5 | 18 | 16 | 13 | 18 | 12 | 9 | 5 | 9 | 28 | 174 | |
| | Total | 354 | 112 | 153 | 193 | 341 | 465 | 335 | 33 | 20 | 173 | 112 | 412 | 2703 | |
| Moose | | | | | | | 3 | | 1 | | | | | 4 | |
| Polar Bear | | 7 | 12 | | | | 1 | | 1 | | | | | 21 | |
| Arctic Fox | | | 40 | 103 | 117 | 136 | 162 | 55 | 1 | | | | | 614 | |
| Red Fox | | | 2 | | 1 | 16 | 9 | 4 | | | | | | 32 | |
| Wolf | | 2 | 4 | 5 | | 2 | 12 | 30 | 2 | | | | | 57 | |
| Weasel | | | | | | | | | | | | | 2 | 2 | |
| Arctic Hare | | | 2 | | | | | 6 | | | | | 1 | 9 | |
| Ringed Seal | | 107 | 36 | | 17 | 28 | 20 | 39 | 36 | 39 | 44 | 13 | 119 | 498 | |
| Bearded Seal | | 11 | 2 | | | | 2 | 14 | 6 | 2 | 3 | 2 | 8 | 50 | |
| Harbour Seal | | | | | | | | | | | 1 | 1 | | 2 | |
| Harp Seal | | 1 | | | | | | | 2 | | | | | 3 | |
| Beluga | | | | | | | | | | | 35 | 15 | | 50 | |
| Canada Geese | | | | | | | | | 445 | 188 | | | 8 | 641 | |
| Snow Geese | | | | | | | | | 107 | 14 | | | 1 | 122 | |
| Geese | | | | | | | | | 12 | | | | | 12 | |
| Eider | | | | | | | | | 1 | 2 | | | 8 | 11 | |
| Old Squaw | | | | | | | | | | 8 | | | | 8 | |
| Mallard | | | 1 | | | | | | | | | | | 1 | |
| Ptarmigan | | 9 | 67 | 12 | 5 | | 20 | 110 | 7 | | | 1 | 119 | 350 | |
| Swan | | | | | | | | | 1 | | | | | 1 | |
| Canada Goose Eggs | | | | | | | | | 381 | | | | | 381 | |
| Snow Goose Eggs | | | | | | | | | 5 | | | | | 5 | |
| Goose Eggs | | | | | | | | | | 60 | | | | 60 | |
| Sea Run Arctic Charr | | 76 | 38 | 30 | | | | 2 | 159 | 169 | 1238 | 593 | 136 | 2441 | |
| Land-Locked Arctic Charr | | 7 | | | | | | | 3 | | | | | 10 | |
| Lake Trout | | 66 | 157 | 231 | | | 4 | 182 | 62 | 136 | 8 | 6 | 99 | 951 | |
| Whitefish sp. | | | 100 | 8 | | | | | | | | | 40 | 148 | |
| Northern Pike | | | | | | | | | | | | | 14 | 14 | |
| Arctic Grayling | | 355 | 46 | | | | | 10 | | | | | 14 | 425 | |
| Other Freshwater Fish | | | 19 | | | | | | | | | | 1 | 20 | |
| Arctic Cod | | | | | | | | | | | 3 | | | 3 | |
| Sculpin sp. | | | | | | | | | | | 3 | | | 3 | |
| Percent of Hunters Reporting | | 98.8 | 98.4 | 97.0 | 98.3 | 94.6 | 93.2 | 93.9 | 99.1 | 98.2 | 99.2 | 98.4 | 84.1 | | |

¹See Table 1.²Data collection was late for May because of changeover of fieldworkers and information may not be complete especially for the various geese and egg harvests.

Table 5. The reported harvest by Rankin Inlet hunters, expressed as numbers of animals, for the period October 1983 to September 1984.

| Species | Category ¹ | 1983 | | | 1984 | | | | | | | | | | Sum |
|-----------------------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------------------|-----|
| | | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | | |
| <u>Caribou</u> | | | | | | | | | | | | | | | |
| Kaminuriak | M | 26 | 52 | 60 | 68 | 116 | 88 | 105 | 93 | 8 | 46 | 39 | 35 | 736 | |
| | F | 25 | 36 | 68 | 28 | 55 | 60 | 66 | 18 | | 1 | 5 | 6 | 368 | |
| | C | | 2 | 1 | | 3 | | | | | | 2 | | 8 | |
| | U | 3 | | 25 | | 2 | 21 | 13 | 13 | 13 | 1 | 1 | | 92 | |
| | Subtotal | 54 | 90 | 154 | 96 | 176 | 169 | 184 | 124 | 21 | 48 | 47 | 41 | 1204 | |
| <u>North of Chesterfield</u> | | | | | | | | | | | | | | | |
| | M | | | | | 13 | | | | | | 1 | 27 | 41 | |
| | F | | | | | 18 | | | | | | | 18 | 36 | |
| | U | | | | | | | | | | | 7 | | 7 | |
| | Subtotal | | | | | 31 | | | | | | 8 | 45 | 84 | |
| | Total | 54 | 90 | 154 | 96 | 207 | 169 | 184 | 124 | 21 | 48 | 55 | 86 | 1288 | |
| Polar Bear | | | 3 | 3 | | 1 | 1 | | | 1 | | | | 9 | |
| Arctic Fox | | | 20 | 32 | 16 | 19 | 20 | 9 | | | | | | 116 | |
| Wolf | | | | 1 | | 2 | 3 | 3 | 1 | | | | | 10 | |
| Wolverine | | | | | | 1 | | | | | | | | 1 | |
| Arctic Hare | | | | | | | | | | 3 | | | 3 | 6 | |
| Arctic Ground Squirrel | | | | | | | | | | | 1 | | | 1 | |
| Ringed Seal | | 25 | 20 | | 3 | | 6 | 4 | 34 | 125 | 84 | 28 | 10 | 339 | |
| Bearded Seal | | 1 | 1 | | | | 2 | 4 | 2 | 2 | 2 | 1 | | 15 | |
| Harbour Seal | | | | | | | | | | | | | 1 | 1 | |
| Harp Seal | | | | | | | | | | | | 1 | | 1 | |
| Seal sp. (unknown) | | | | | | | | | 3 | | | | | 3 | |
| Walrus | | | | | | | | 1 | | | | | | 1 | |
| Beluga | | | | | | | | | | 2 | 9 | 49 | 5 | 65 | |
| Canada Geese | | | | | | | | | 11 | 376 | | 9 | | 396 | |
| Snow Geese | | | | | | | | | 147 | 51 | | | 39 | 237 | |
| Brant Geese | | | | | | | | | | | | 8 | | 8 | |
| Eider | | | 1 | | | | 1 | | | 2 | 10 | 7 | 3 | 24 | |
| Ptarmigan | | | | | | 10 | | 146 | 68 | 13 | | 7 | 7 | 251 | |
| Sandhill Crane | | | | | | | | | 2 | | | | | 2 | |
| Swan | | | | | | | | | 4 | 1 | | 2 | | 7 | |
| Other Fowl | | | | | | | | | | | 1 | | | 1 | |
| Canada Goose Eggs | | | | | | | | | | 94 | | | | 94 | |
| Other Fowl Eggs | | | | | | | | | | | 16 | | | 16 | |
| Sea Run Arctic Charr ² | | 52 | 385 | 482 | 288 | 73 | 91 | 53 | 33 | 861 | 526 | 1804 | 42 | 4690 ² | |
| Land-Locked Arctic Charr | | | | | | | | | 19 | | | | | 19 | |
| Lake Trout | | | 47 | | | 17 | | 113 | 164 | | 7 | 21 | | 369 | |
| Whitefish sp. | | | 6 | | | | | 1 | | | | | | 7 | |
| Percent of Hunters Reporting | | 51.3 | 81.5 | 92.2 | 90.4 | 89.3 | 91.0 | 97.5 | 74.4 | 90.3 | 82.4 | 100.0 | 85.8 | | |

¹See Table 1.²Included in this harvest are 673 Arctic charr which were sold commercially through the Rankin Inlet fish plant.

Table 6. The reported harvest by Repulse Bay hunters, expressed as numbers of animals, for the period October 1983 to September 1984.

| Species | Category ¹ | 1983 | | | 1984 | | | | | | | | | | Sum |
|--|-----------------------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-----|
| | | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | | |
| <u>Caribou</u> | | | | | | | | | | | | | | | |
| Kaminuriak | M | | | | | | | | 25 | | | | | | 25 |
| | F | | | | | | | | 4 | | | | | | 4 |
| | U | | | | | | | | 1 | | | | | | 1 |
| | Subtotal | | | | | | | | 30 | | | | | | 30 |
| Wager Bay | M | 30 | 6 | 7 | 9 | 32 | 22 | 19 | 22 | 72 | 33 | 148 | 61 | 461 | |
| | F | 14 | 8 | 7 | 12 | 23 | 34 | 11 | 4 | 7 | 4 | 61 | 23 | 208 | |
| | C | | 2 | | | | | | | | | 3 | | 5 | |
| | U | 11 | 10 | | 3 | 6 | 21 | 26 | | 8 | 3 | 1 | 10 | 99 | |
| | Subtotal | 55 | 26 | 14 | 24 | 61 | 77 | 56 | 26 | 87 | 40 | 213 | 94 | 773 | |
| North of Chesterfield | M | | | | | | | | 17 | | | | | 17 | |
| | Subtotal | | | | | | | | 17 | | | | | 17 | |
| Other | M | | | | | | | | 5 | | | | | 5 | |
| | U | | | | | | | | 1 | | | | | 1 | |
| | Subtotal | | | | | | | | 6 | | | | | 6 | |
| | Total | 55 | 26 | 14 | 24 | 61 | 77 | 56 | 79 | 87 | 40 | 213 | 94 | 826 | |
| Polar Bear | | | 6 | 1 | | 1 | 1 | | | | | | | 9 | |
| Arctic Fox | | | 68 | 33 | 21 | 10 | 19 | 9 | | | | | | 160 | |
| Red Fox | | | 1 | | | 1 | | | | | | | | 2 | |
| Wolf | | 2 | 7 | 1 | 1 | 2 | 10 | 1 | 3 | | | | | 27 | |
| Wolverine | | | 2 | | | | 2 | 1 | 1 | | | | | 6 | |
| Arctic Hare | | | | | | 2 | 1 | | | | | | | 3 | |
| Ringed Seal | | 50 | 10 | | 5 | 5 | 5 | 9 | 14 | 97 | 70 | 65 | 37 | 367 | |
| Bearded Seal | | 1 | | | | | | | | | 3 | 12 | 1 | 17 | |
| Harp Seal | | | | | | | | | | | 1 | 3 | | 4 | |
| Walrus | | | | | | | | | | | | 2 | 1 | 3 | |
| Beluga | | | | | | | | | | | 1 | 8 | 7 | 16 | |
| Narwhal | | | | | | | | | | | 8 | 11 | 1 | 20 | |
| Canada Geese | | | | | | | | | 3 | 2 | | | | 5 | |
| Snow Geese | | | | | | | | | 3 | | | | | 3 | |
| Eider | | | | | | | | | | 4 | | | | 4 | |
| Old Squaw | | | | | | | | | | 5 | | | | 5 | |
| Ptarmigan | | | | | | 3 | | 3 | | 3 | | 5 | 39 | 53 | |
| Sandhill Crane | | | | | | | | | 1 | | | | | 1 | |
| Sea Run Arctic Charr | | 67 | 396 | 22 | | | | | 10 | 523 | 147 | 381 | 6 | 1552 | |
| Land-Locked Arctic Charr | | 18 | | | | | | | | | | | | 18 | |
| Lake Trout | | 1 | | | | | | | 44 | | | | | 45 | |
| Other Freshwater Fish | | 125 | | | | | | | | | | | | 125 | |
| Percent of Hunters Reporting ² | | 57.8 | 66.7 | 41.1 | 58.9 | 44.4 | 54.4 | 51.1 | 73.3 | 71.1 | 51.1 | 75.0 | 58.9 | | |

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 November 1983 to September 1984.

| Species | Category ¹ | 1983 | | | 1984 | | | | | | | | | | Sum |
|---|-----------------------|-------------------|------|------|------|------|------|-------|------|------|------|------|-------|-----|-----|
| | | Oct. ² | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | | |
| <u>Caribou</u> | | | | | | | | | | | | | | | |
| Kaminuriak | M | | 28 | 10 | 27 | 46 | 51 | 16 | 19 | 12 | 8 | 12 | 20 | 249 | |
| | F | | 36 | 15 | 5 | 32 | 76 | 38 | 10 | 7 | | | 12 | 231 | |
| | U | | 7 | 2 | | | | | | | | | | 9 | |
| | Total | | 71 | 27 | 32 | 78 | 127 | 54 | 29 | 19 | 8 | 12 | 32 | 489 | |
| Polar Bear | | | 5 | | | | 2 | | 1 | | | | | 8 | |
| Arctic Fox | | | 10 | 26 | | | | | | | | | | 36 | |
| Wolf | | | 1 | 3 | | 3 | | 2 | | | | | | 9 | |
| Arctic Hare | | | | | | | | | | | | 2 | 5 | 7 | |
| Ringed Seal | | | 3 | | 3 | 5 | 4 | 5 | 19 | 20 | 9 | 4 | 13 | 85 | |
| Bearded Seal | | | | | | | | 1 | | 5 | | 1 | | 7 | |
| Harbour Seal | | | | | | | | | | | 2 | 2 | | 4 | |
| Beluga | | | | | | | | | | | | 13 | 5 | 18 | |
| Canada Geese | | | | | | | | | 10 | 9 | | | | 19 | |
| Snow Geese | | | | | | | | | 200 | 186 | 25 | | 4 | 415 | |
| Eider | | | | | | | | | 8 | | | | | 8 | |
| Ptarmigan | | | | | | | | 5 | 6 | | | | | 11 | |
| Goose Eggs | | | | | | | | | 21 | | | | | 21 | |
| Sea Run Arctic Charr | | | 63 | 30 | 12 | | | 7 | 2 | 60 | 177 | 322 | 19 | 692 | |
| Land-Locked Arctic Charr | | | | | | | | | 1 | | | | | 1 | |
| Lake Trout | | | | | 9 | 14 | 90 | 93 | 71 | 12 | | | | 288 | |
| Percent of Hunters Reporting ² | | | | | | | | | | | | | | | |
| | | | 30.0 | 14.0 | 52.0 | 98.0 | 98.0 | 100.0 | 77.6 | 70.7 | 69.9 | 71.0 | 88.7 | | |

¹See Table 1.

²No harvest data were collected in October because of changeover of fieldworkers and complete information on hunter participation was not collected in this community until January. The figures for November and December represent only successful hunters.

Table 8. The estimated harvest by Baker Lake hunters, expressed as numbers of animals, for the period October 1983 to September 1984.

| Species | Category ¹ | 1983 | | | 1984 | | | | | | | | | | Sum |
|-----------------------------|-----------------------|------|------|------|------|------|------|------|-----|------|------|------|-------|------|-----|
| | | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | | |
| <u>Caribou</u> ² | | | | | | | | | | | | | | | |
| Kaminuriak | M | 26 | 15 | 51 | | | | 65 | | 45 | 275 | 26 | 10 | 512 | |
| | F | 66 | 27 | 28 | | | | 28 | | 3 | 28 | 37 | 21 | 238 | |
| | U | | | | | | | | | 3 | 8 | | 2 | 13 | |
| | Subtotal | 92 | 41 | 79 | | | | 93 | | 51 | 311 | 63 | 33 | 763 | |
| Beverly | M | 35 | 173 | 82 | 151 | 337 | 457 | 424 | 50 | | 73 | | 235 | 2017 | |
| | F | 116 | 290 | 93 | 100 | 247 | 292 | 234 | 8 | | 3 | | 197 | 1580 | |
| | U | | 4 | | | 9 | | | 2 | | 1 | | 5 | 21 | |
| | Subtotal | 151 | 467 | 175 | 251 | 593 | 749 | 658 | 60 | | 77 | | 437 | 3618 | |
| Wager | M | 11 | 4 | 37 | | | | 4 | 388 | 116 | 111 | 267 | 310 | 1248 | |
| | F | 20 | 4 | 31 | 2 | | | | 88 | 17 | 9 | 242 | 191 | 604 | |
| | U | | | | | | | | 32 | 21 | 14 | 2 | 4 | 73 | |
| | Subtotal | 31 | 8 | 68 | 2 | | | 4 | 508 | 154 | 134 | 511 | 505 | 1925 | |
| Other | M | | | | 60 | | | 2 | | | | | 1 | 63 | |
| | F | | | | 58 | | | | | | | | | 58 | |
| | U | | | | 4 | | | | | | | | | 4 | |
| | Subtotal | | | | 122 | | | 2 | | | | | 1 | 125 | |
| Total | | 274 | 516 | 322 | 375 | 593 | 749 | 757 | 568 | 205 | 522 | 574 | 976 | 6431 | |
| Muskox | | | | | | | 13 | | | | | | | 13 | |
| Grizzly Bear | | | | | | | | | | | | | 1 | 1 | |
| Arctic Fox | | | 17 | 275 | 124 | 156 | 180 | 5 | | | | | | 757 | |
| Wolf | | 1 | 3 | 11 | | 12 | 25 | 1 | | | | | | 53 | |
| Ringed Seal | | | | | | | | | 2 | 3 | | | 1 | 6 | |
| Canada Geese | | | | | | | | | 154 | 142 | | | | 296 | |
| Snow Geese | | | | | | | | | 149 | 201 | | | | 350 | |
| Ptarmigan | | | | | | | | | | | | | 349 | 349 | |
| Goose Eggs | | | | | | | | | | 2722 | | | | 2722 | |
| Arctic Charr | | | | | | | | | | 138 | | | 65 | 203 | |
| Lake Trout | | 1732 | 545 | 178 | 76 | 157 | 268 | 241 | 32 | 175 | 72 | 87 | 182 | 3745 | |
| Whitefish sp. | | | | 72 | 50 | 151 | 144 | 135 | 19 | | 17 | 27 | 22 | 637 | |
| Northern Pike | | | | | | | | | | | | | 25 | 25 | |
| Arctic Grayling | | | | | | | | | | | | | 25 | 25 | |

¹See Table 1.

²Some of the reported harvest of caribou assigned to the Beverly herd for the period January to April may in fact be part of the Wager Bay herd.

Table 9. The estimated harvest by Chesterfield Inlet hunters, expressed as numbers of animals, for the period October 1983 to September 1984.

| Species | Category ¹ | 1983 | | | 1984 | | | | | | | | | | Sum ² |
|--------------------------|-----------------------|------|------|------|------|------|------|------|-----|------|------|------|-------|-----|------------------|
| | | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | | |
| <u>Caribou</u> | | | | | | | | | | | | | | | |
| Kaminuriak | M | | 1 | 11 | 14 | | | | 34 | | | 5 | | 65 | |
| | F | | | 6 | 17 | | 1 | | 6 | | | 1 | | 31 | |
| | U | | | | | | | | | | | 2 | | 2 | |
| | Subtotal | | 1 | 17 | 31 | | 1 | | 40 | | | 8 | | 98 | |
| North of Chesterfield | M | 12 | 3 | | | 21 | 31 | 38 | 23 | 5 | 14 | 10 | 35 | 192 | |
| | F | 3 | 16 | | | 23 | 9 | 4 | | 1 | 3 | 7 | 5 | 71 | |
| | U | | | | | 6 | | | | 3 | 3 | | | 12 | |
| | Subtotal | 15 | 19 | | | 50 | 40 | 42 | 23 | 9 | 20 | 17 | 40 | 275 | |
| Other | M | | | | | | | | 7 | | | | | 7 | |
| | U | | | | | | | | 1 | | | | | 1 | |
| | Subtotal | | | | | | | | 8 | | | | | 8 | |
| | Total | 15 | 20 | 17 | 31 | 50 | 41 | 42 | 71 | 9 | 20 | 25 | 40 | 381 | |
| Polar Bear | | | 4 | | 1 | | 4 | | | | | | | 9 | |
| Arctic Fox | | | | 26 | 2 | 3 | 2 | 2 | | | | | | 35 | |
| Wolf | | | 2 | 9 | 6 | 5 | | | | | | | | 22 | |
| Ringed Seal | | 6 | 5 | 2 | | | 3 | | 7 | 6 | 4 | 3 | 7 | 43 | |
| Bearded Seal | | 3 | | | | | | | | | | | 1 | 4 | |
| Walrus | | | | | | | 1 | 4 | | 2 | | | | 7 | |
| Beluga | | | | | | | | | | | 4 | 4 | 4 | 12 | |
| Canada Geese | | | | | | | | | | 8 | | | | 8 | |
| Eider | | | | | | | | | | 1 | | | | 1 | |
| Canada Goose Eggs | | | | | | | | | | | | 2 | | 2 | |
| Duck Eggs | | | | | | | | | | 8 | | | | 8 | |
| Fowl Eggs | | | | | | | | | | 6 | | | | 6 | |
| Sea Run Arctic Charr | | | | | | | | | 1 | | 15 | 414 | 50 | 480 | |
| Lake Trout | | | 43 | | | | | 1 | 59 | 26 | | | | 129 | |
| Sculpin sp. | | | | | | | | | | 1 | | | | 1 | |

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 1983 to September 1984.

| Species | Category ¹ | 1983 | | | 1984 | | | | | | | | | | Sum |
|--------------------------|-----------------------|-------------------|------|------|------|-------------------|------|------|-------|------|------|------|-------|--|-------|
| | | Oct. ² | Nov. | Dec. | Jan. | Feb. ² | Mar. | Apr. | May | June | July | Aug. | Sept. | | |
| <u>Caribou</u> | | | | | | | | | | | | | | | |
| Kaminuriak | U | | | | | | 4 | | | | | | | | 4 |
| | Subtotal | | | | | | 4 | | | | | | | | 4 |
| Wager | M | | | | | | | 60 | | | | 9 | | | 69 |
| | F | | | | | | | 78 | | | | 3 | | | 81 |
| | U | | | | | | | 55 | | | | | | | 55 |
| | Subtotal | | | | | | | 193 | | | | 12 | | | 205 |
| Coates | M | | | | 16 | | | | | | | | | | 16 |
| | F | | | | 9 | | | | | | | | | | 9 |
| | U | 1 | | 10 | | | | | | | | | | | 11 |
| | Subtotal | 1 | | 10 | 25 | | | | | | | | | | 36 |
| Southampton | M | | 4 | | | | 6 | 23 | 2 | 3 | 98 | 39 | | | 175 |
| | F | | | | | | 16 | 21 | | | 62 | 37 | | | 136 |
| | U | | | | | | | 3 | | | 76 | 2 | | | 81 |
| | Subtotal | | 4 | | | | | 47 | 2 | 3 | 236 | 78 | | | 392 |
| | Total | 1 | 4 | 10 | 25 | | 4 | 215 | 47 | 2 | 3 | 248 | 78 | | 637 |
| Polar Bear | | 20 | 9 | 1 | 4 | | | | | | | | | | 34 |
| Arctic Fox | | | 126 | 51 | 85 | 55 | 89 | 123 | | | | | | | 529 |
| Wolf | | | | | | | | | 1 | | | | | | 1 |
| Arctic Hare | | | | | | | | 1 | | | | | | | 1 |
| Ringed Seal | | 59 | 87 | 13 | 134 | 101 | 55 | 41 | 57 | 142 | 74 | 20 | 45 | | 828 |
| Bearded Seal | | 2 | 4 | 1 | 4 | 7 | 17 | 2 | | 5 | 12 | 4 | 10 | | 68 |
| Harp Seal | | | | | 4 | 3 | | | | | 1 | 13 | 3 | | 24 |
| Seal sp. (unknown) | | | | | | 1 | | | | | | | | | 1 |
| Walrus | | 5 | | | 4 | | 1 | | 6 | | 3 | 11 | 14 | | 44 |
| Beluga | | 2 | 1 | | 2 | 1 | | | | 3 | 33 | 50 | 24 | | 116 |
| Canada Geese | | | | | | | | | 13 | 101 | | 23 | | | 137 |
| Snow Geese | | | | | 3 | 21 | | 5 | 322 | 5063 | | 30 | 113 | | 5557 |
| Brant Geese | | | | | | | | | 4 | 1 | | | | | 5 |
| Geese | | | | | | | | | 3 | 76 | | | | | 79 |
| Eider | | 12 | 3 | | | | | | 14 | 6 | | | 18 | | 53 |
| Ptarmigan | | 134 | 99 | 127 | 158 | 152 | 33 | 283 | 183 | | | | 100 | | 1269 |
| Swan | | | | | | | | | 6 | | | | | | 6 |
| Other Fowl | | | | | | 2 | | | | | | | | | 2 |
| Canada Goose Eggs | | | | | | | | | 71 | | | | | | 71 |
| Snow Goose Eggs | | | | | | | | | 10290 | | | | | | 10290 |
| Goose Eggs | | | | | | | | | 30 | | | | | | 30 |
| Sea Run Arctic Charr | | 616 | 366 | 57 | 300 | 12 | 2 | 210 | 108 | 370 | 266 | 690 | 29 | | 3026 |
| Land-Locked Arctic Charr | | | | | | | | | | | 12 | | | | 12 |
| Other Freshwater Fish | | | | | | | | | | | | 19 | | | 19 |
| Arctic Cod | | | | | | | | | | 150 | 16 | 4 | | | 170 |

¹See Table 1.²Complete information on hunter participation was not collected in this community until February. For the period October to January, the figures given in this table are the actual reported harvests from Table 3.

Table 11. The estimated harvest by Eskimo Point hunters, expressed as numbers of animals, for the period October 1983 to September 1984.

| Species | Category ¹ | 1983 | | | 1984 | | | | | | | | | | Sum |
|--------------------------|-----------------------|------|------|------|------|------|------|------|------------------|------|------|------|-------|------|-----|
| | | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May ² | June | July | Aug. | Sept. | | |
| <u>Caribou</u> | | | | | | | | | | | | | | | |
| Kaminuriak | M | 122 | 44 | 33 | 18 | 46 | 119 | 61 | 6 | 7 | 151 | 67 | 234 | 908 | |
| | F | 195 | 50 | 115 | 157 | 292 | 333 | 255 | 14 | 4 | 17 | 22 | 148 | 1602 | |
| | C | 16 | 8 | | | | | 2 | 1 | | | 15 | 47 | 89 | |
| | U | 32 | 10 | 5 | 18 | 17 | 13 | 18 | 12 | 9 | 5 | 9 | 31 | 180 | |
| | Total | 365 | 112 | 153 | 193 | 355 | 465 | 336 | 33 | 20 | 173 | 113 | 461 | 2779 | |
| Moose | | | | | | | 3 | | 1 | | | | | 4 | |
| Polar Bear | | 7 | 12 | | | | 1 | | 1 | | | | | 21 | |
| Arctic Fox | | | 40 | 103 | 117 | 142 | 163 | 55 | 1 | | | | | 621 | |
| Red Fox | | | 2 | | 1 | 17 | 9 | 4 | | | | | | 33 | |
| Wolf | | 2 | 4 | 5 | | 2 | 12 | 30 | 2 | | | | | 57 | |
| Weasel | | | | | | | | | | | | | 2 | 2 | |
| Arctic Hare | | | 2 | | | | | 6 | | | | | 1 | 9 | |
| Ringed Seal | | 110 | 36 | | 17 | 29 | 20 | 39 | 36 | 40 | 44 | 13 | 132 | 516 | |
| Bearded Seal | | 11 | 2 | | | | 2 | 14 | 6 | 2 | 3 | 2 | 9 | 51 | |
| Harbour Seal | | | | | | | | | | | | 1 | 1 | 2 | |
| Harp Seal | | 1 | | | | | | | 2 | | | | | 3 | |
| Beluga | | | | | | | | | | | 35 | 15 | | 50 | |
| Canada Geese | | | | | | | | | 449 | 191 | | | 9 | 649 | |
| Snow Geese | | | | | | | | | 108 | 14 | | | 1 | 123 | |
| Geese | | | | | | | | | 12 | | | | | 12 | |
| Eider | | | | | | | | | 1 | 2 | | | 9 | 12 | |
| Old Squaw | | | | | | | | | | 8 | | | | 8 | |
| Mallard | | | 1 | | | | | | | | | | | 1 | |
| Ptarmigan | | 9 | 68 | 12 | 5 | | 20 | 111 | 7 | | | 1 | 134 | 367 | |
| Swan | | | | | | | | | 1 | | | | | 1 | |
| Canada Goose Eggs | | | | | | | | | 384 | | | | | 384 | |
| Snow Goose Eggs | | | | | | | | | 5 | | | | | 5 | |
| Goose Eggs | | | | | | | | | | 61 | | | | 61 | |
| Sea Run Arctic Charr | | 78 | 38 | 30 | | | | 2 | 160 | 172 | 1249 | 608 | 152 | 2489 | |
| Land-Locked Arctic Charr | | 7 | | | | | | | 3 | | | | | 10 | |
| Lake Trout | | 68 | 159 | 231 | | | 4 | 183 | 62 | 138 | 8 | 6 | 111 | 970 | |
| Whitefish sp. | | | 101 | 8 | | | | | | | | | 45 | 154 | |
| Northern Pike | | | | | | | | | | | | | 16 | 16 | |
| Arctic Grayling | | 366 | 47 | | | | | 10 | | | | | 16 | 439 | |
| Other Freshwater Fish | | | 19 | | | | | | | | | | 1 | 20 | |
| Arctic Cod | | | | | | | | | | | 3 | | | 3 | |
| Sculpin sp. | | | | | | | | | | | 3 | | | 3 | |

¹See Table 1.²Data collection was late for May in this community because of changeover of fieldworkers and the estimate of harvest may not be as accurate for this month as for the rest of the survey period, especially for the various geese and egg harvests.

Table 12. The estimated harvest by Rankin Inlet hunters, expressed as numbers of animals, for the period October 1983 to September 1984.

| Species | Category ¹ | 1983 | | | 1984 | | | | | | | | | | Sum |
|-----------------------------------|-----------------------|------|------|------|------|------|------|------|-----|------|------|------|-------|-------------------|-----|
| | | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | | |
| Caribou | | | | | | | | | | | | | | | |
| Kaminuriak | M | 51 | 60 | 61 | 79 | 138 | 90 | 113 | 132 | 8 | 64 | 39 | 37 | 872 | |
| | F | 49 | 41 | 69 | 33 | 65 | 61 | 71 | 25 | | 1 | 5 | 7 | 421 | |
| | C | | 2 | 1 | | 4 | | | | | | 2 | | 9 | |
| | U | 6 | | 26 | | 2 | 22 | 14 | 19 | 13 | 1 | 1 | | 104 | |
| | Subtotal | 106 | 103 | 157 | 112 | 209 | 173 | 198 | 176 | 21 | 66 | 47 | 44 | 1412 | |
| North of Chesterfield | | | | | | | | | | | | | | | |
| | M | | | | | 15 | | | | | | 1 | 29 | 45 | |
| | F | | | | | 21 | | | | | | | 19 | 40 | |
| | U | | | | | | | | | | | 7 | | 7 | |
| | Subtotal | | | | | 36 | | | | | | 8 | 48 | 92 | |
| | Total | 106 | 103 | 157 | 112 | 245 | 173 | 198 | 176 | 21 | 66 | 55 | 92 | 1504 | |
| Polar Bear | | | 3 | 3 | | 1 | 1 | | | 1 | | | | 9 | |
| Arctic Fox | | | 23 | 33 | 19 | 23 | 20 | 10 | | | | | | 128 | |
| Wolf | | | 1 | | | 2 | 3 | 3 | 1 | | | | | 10 | |
| Wolverine | | | | | | 1 | | | | | | | | 1 | |
| Arctic Hare | | | | | | | | | 4 | | | | 3 | 7 | |
| Arctic Ground Squirrel | | | | | | | | | | 1 | | | | 1 | |
| Ringed Seal | | 49 | 23 | | 4 | | 6 | 4 | 48 | 125 | 116 | 28 | 11 | 414 | |
| Bearded Seal | | 2 | 1 | | | | 2 | 4 | 3 | 2 | 3 | 1 | | 18 | |
| Harbour Seal | | | | | | | | | | | | | 1 | 1 | |
| Harp Seal | | | | | | | | | | | | 1 | | 1 | |
| Seal sp. (unknown) | | | | | | | | | 4 | | | | | 4 | |
| Walrus | | | | | | | | 1 | | | | | | 1 | |
| Beluga | | | | | | | | | | 2 | 13 | 49 | 5 | 69 | |
| Canada Geese | | | | | | | | | 16 | 376 | | 9 | | 401 | |
| Snow Geese | | | | | | | | | 209 | 51 | | | 41 | 301 | |
| Brant Geese | | | | | | | | | | | 11 | | | 11 | |
| Eider | | | 1 | | | | 1 | | | 2 | 14 | 7 | 3 | 28 | |
| Ptarmigan | | | | | | 12 | | 155 | 97 | 13 | | 7 | 7 | 291 | |
| Sandhill Crane | | | | | | | | | 3 | | | | | 3 | |
| Swan | | | | | | | | | 6 | 1 | | 2 | | 9 | |
| Other Fowl | | | | | | | | | | | 1 | | | | |
| Canada Goose Eggs | | | | | | | | | | 94 | | | | 94 | |
| Other Fowl Eggs | | | | | | | | | | | 22 | | | 22 | |
| Sea Run Arctic Charr ² | | 102 | 443 | 492 | 333 | 86 | 93 | 57 | 47 | 861 | 724 | 1804 | 45 | 5087 ² | |
| Land-Locked Arctic Charr | | | | | | | | | 27 | | | | | 27 | |
| Lake Trout | | | 54 | | | 20 | | 120 | 232 | | 10 | 21 | | 458 | |
| Whitefish sp. | | | 7 | | | | | 1 | | | | | | 8 | |

¹See Table 1.²The estimate of the sea run Arctic charr harvest is high because 673 charr from the commercial harvest were inadvertently included in the reported harvest from Table 5. Normally commercial landings have not been included in this study.

Table 13. The estimated harvest by Repulse Bay hunters, expressed as numbers of animals, for the period October 1983 to September 1984.

| Species | Category ¹ | 1983 | | | 1984 | | | | | | | | | | Sum ² |
|--------------------------|-----------------------|------|------|------|------|------|------|------|-----|------|------|------|-------|------|------------------|
| | | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | | |
| <u>Caribou</u> | | | | | | | | | | | | | | | |
| Kaminuriak | M | | | | | | | | 34 | | | | | 34 | |
| | F | | | | | | | | 6 | | | | | 6 | |
| | U | | | | | | | | 1 | | | | | 1 | |
| | Subtotal | | | | | | | | 41 | | | | | 41 | |
| Wager Bay | M | 52 | 9 | 17 | 15 | 65 | 39 | 34 | 30 | 91 | 59 | 194 | 94 | 699 | |
| | F | 24 | 11 | 17 | 20 | 47 | 60 | 20 | 6 | 9 | 7 | 79 | 36 | 336 | |
| | C | | 3 | | | | | | | | | 4 | | 7 | |
| | U | 19 | 14 | | 5 | 12 | 37 | 46 | | 10 | 5 | 1 | 16 | 165 | |
| | Subtotal | 95 | 37 | 34 | 40 | 124 | 136 | 100 | 36 | 110 | 71 | 278 | 146 | 1207 | |
| North of Chesterfield | M | | | | | | | | 23 | | | | | 23 | |
| | Subtotal | | | | | | | | 23 | | | | | 23 | |
| Other | M | | | | | | | | 7 | | | | | 7 | |
| | U | | | | | | | | 1 | | | | | 1 | |
| | Subtotal | | | | | | | | 8 | | | | | 8 | |
| | Total | 95 | 37 | 34 | 40 | 124 | 136 | 100 | 108 | 110 | 71 | 278 | 146 | 1279 | |
| Polar Bear | | | 8 | 2 | | 2 | 2 | | | | | | | 14 | |
| Arctic Fox | | | 97 | 78 | 35 | 20 | 34 | 16 | | | | | | 280 | |
| Red Fox | | | 1 | | | 2 | | | | | | | | 3 | |
| Wolf | | 4 | 10 | 2 | 2 | 4 | 18 | 2 | 4 | | | | | 46 | |
| Wolverine | | | 3 | | | | 4 | 2 | 1 | | | | | 10 | |
| Arctic Hare | | | | | | 4 | | 2 | | | | | | 6 | |
| Ringed Seal | | 87 | 14 | | 8 | 10 | 9 | 16 | 19 | 122 | 126 | 85 | 57 | 553 | |
| Bearded Seal | | 2 | | | | | | | | | 5 | 16 | 2 | 25 | |
| Harp Seal | | | | | | | | | | | 2 | 4 | | 6 | |
| Walrus | | | | | | | | | | | | 3 | 2 | 5 | |
| Beluga | | | | | | | | | | | 2 | 12 | 11 | 25 | |
| Narwhal | | | | | | | | | | | 14 | 15 | 2 | 31 | |
| Canada Geese | | | | | | | | | 4 | 3 | | | | 7 | |
| Snow Geese | | | | | | | | | 4 | | | | | 4 | |
| Eider | | | | | | | | | | 5 | | | | 5 | |
| Old Squaw | | | | | | | | | | 6 | | | | 6 | |
| Ptarmigan | | | | | | 6 | | 5 | | 4 | | 6 | 61 | 82 | |
| Sandhill Crane | | | | | | | | | 1 | | | | | 1 | |
| Sea Run Arctic Charr | | 116 | 564 | 52 | | | | | 14 | 655 | 265 | 493 | 9 | 2168 | |
| Land-Locked Arctic Charr | | 31 | | | | | | | | | | | | 31 | |
| Lake Trout | | 2 | | | | | | | 60 | | | | | 62 | |
| Other Freshwater Fish | | 216 | | | | | | | | | | | | 216 | |

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 November 1983 to September 1984.

| Species | Category ¹ | 1983 | | | 1984 | | | | | | | | | Sum |
|--------------------------|-----------------------|------|------|------|-------------------|------|------|------|-----|------|------|------|-------|-----|
| | | Oct. | Nov. | Dec. | Jan. ² | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | |
| Caribou | | | | | | | | | | | | | | |
| Kaminuriak | M | | 28 | 10 | 52 | 46 | 52 | 16 | 22 | 18 | 12 | 17 | 21 | 294 |
| | F | | 36 | 15 | 10 | 32 | 77 | 38 | 11 | 10 | | | 13 | 242 |
| | U | | 7 | 2 | | | | | | | | | | 9 |
| | Total | | 71 | 27 | 62 | 78 | 129 | 54 | 33 | 28 | 12 | 17 | 34 | 545 |
| Polar Bear | | | 5 | | | | 2 | | 1 | | | | | 8 |
| Arctic Fox | | | 10 | 26 | | | | | | | | | | 36 |
| Wolf | | | 1 | 3 | | 3 | | 2 | | | | | | 9 |
| Arctic Hare | | | | | | | | | | | | 3 | 5 | 8 |
| Ringed Seal | | | 3 | | 6 | 5 | 4 | 5 | 21 | 29 | 13 | 6 | 14 | 106 |
| Bearded Seal | | | | | | | | 1 | | 7 | | 2 | | 10 |
| Harbour Seal | | | | | | | | | | | 3 | 3 | | 6 |
| Beluga | | | | | | | | | | | | 19 | 5 | 24 |
| Canada Geese | | | | | | | | | 11 | 13 | | | | 24 |
| Snow Geese | | | | | | | | | 226 | 273 | 37 | | 4 | 540 |
| Eider | | | | | | | | | 9 | | | | | 9 |
| Ptarmigan | | | | | | | | 5 | 7 | | | | | 12 |
| Goose Eggs | | | | | | | | | 24 | | | | | 24 |
| Sea Run Arctic Charr | | | 63 | 30 | 23 | | | 7 | 2 | 88 | 261 | 467 | 20 | 961 |
| Land-Locked Arctic Charr | | | | | | | | | 1 | | | | | 1 |
| Lake Trout | | | | | 17 | 14 | 92 | 93 | 80 | 18 | | | | 314 |

¹See Table 1.

²No harvest data were collected during October in this community because of changeover of fieldworkers and complete information on hunter participation was not collected until January. For the period November to December the figures given in this table are the actual reported harvests from Table 7.

Table 15. The reported and estimated harvest by Baker Lake 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. 1983 - Sept. 1984 | | | ESTIMATED HARVEST ² Oct. 1983 - Sept. 1984 | | |
|-----------------------------|-----------------------|---|------|------|--|------|------|
| | | Total | Mean | S.D. | Total | Mean | S.D. |
| <u>Caribou</u> ³ | | | | | | | |
| Kaminuriak | M | 511 | 2 | 1 | 512 | 2 | 1 |
| | F | 236 | 3 | 2 | 238 | 3 | 2 |
| | U | 13 | 2 | 1 | 13 | 2 | 1 |
| | Subtotal | 760 | 2 | 1 | 763 | 3 | 1 |
| Beverly | M | 2003 | 3 | 2 | 2017 | 3 | 2 |
| | F | 1560 | 3 | 2 | 1580 | 3 | 2 |
| | U | 21 | 4 | 2 | 22 | 4 | 2 |
| | Subtotal | 3584 | 3 | 2 | 3618 | 3 | 2 |
| Wager | M | 1216 | 3 | 1 | 1248 | 3 | 2 |
| | F | 596 | 3 | 1 | 604 | 3 | 1 |
| | U | 70 | 3 | 3 | 73 | 3 | 3 |
| | Subtotal | 1882 | 3 | 1 | 1925 | 3 | 2 |
| Other | M | 63 | 3 | 1 | 63 | 3 | 1 |
| | F | 58 | 3 | 1 | 58 | 3 | 1 |
| | U | 4 | 4 | 0 | 4 | 4 | 0 |
| | Subtotal | 125 | 3 | 1 | 125 | 3 | 1 |
| | Total | 6351 | 3 | 2 | 6431 | 3 | 2 |
| Muskox | | 13 | 1 | 0 | 13 | 1 | 0 |
| Grizzly Bear | | 1 | 1 | 0 | 1 | 1 | 0 |
| Arctic Fox | | 756 | 8 | 6 | 757 | 8 | 6 |
| Wolf | | 53 | 2 | 2 | 53 | 2 | 2 |
| Ringed Seal | | 6 | 2 | 1 | 6 | 2 | 1 |
| Canada Geese | | 284 | 4 | 1 | 296 | 4 | 2 |
| Snow Geese | | 339 | 5 | 2 | 350 | 5 | 2 |
| Ptarmigan | | 349 | 9 | 4 | 349 | 9 | 4 |
| Goose Eggs | | 2722 | 27 | 17 | 2722 | 27 | 17 |
| Arctic Charr | | 203 | 6 | 4 | 203 | 6 | 4 |
| Lake Trout | | 3706 | 24 | 21 | 3745 | 24 | 22 |
| Whitefish sp. | | 635 | 9 | 5 | 637 | 9 | 5 |
| Northern Pike | | 25 | 6 | 2 | 25 | 6 | 2 |
| Arctic Grayling | | 25 | 8 | 2 | 25 | 8 | 2 |

¹See Table 1.

²See also Tables 1 and 8.

³Some of the reported caribou harvest assigned to the Beverly herd for the period January to April may in fact be part of the Wager Bay herd.

Table 16. The reported and estimated harvest by Chesterfield Inlet 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. 1983 - Sept. 1984 | | | ESTIMATED HARVEST ² Oct. 1983 - Sept. 1984 | | |
|--------------------------|-----------------------|---|------|------|--|------|------|
| | | Total ³ | Mean | S.D. | Total ³ | Mean | S.D. |
| <u>Caribou</u> | | | | | | | |
| Kaminuriak | M | 54 | 2 | 1 | 65 | 2 | 1 |
| | F | 27 | 2 | 1 | 31 | 2 | 1 |
| | U | 2 | 2 | 0 | 2 | 2 | 0 |
| | Subtotal | 83 | 2 | 1 | 99 | 2 | 1 |
| North of Chesterfield | M | 177 | 3 | 2 | 192 | 3 | 2 |
| | F | 65 | 2 | 1 | 71 | 2 | 1 |
| | U | 10 | 3 | 1 | 12 | 3 | 1 |
| | Subtotal | 252 | 2 | 2 | 275 | 3 | 2 |
| Other | M | 5 | 3 | 1 | 7 | 3 | 1 |
| | U | 1 | 1 | 0 | 1 | 1 | 0 |
| | Subtotal | 6 | 2 | 1 | 8 | 3 | 1 |
| | Total | 341 | 2 | 2 | 382 | 2 | 2 |
| Polar Bear | | 9 | 1 | 0 | 9 | 1 | 0 |
| Arctic Fox | | 33 | 5 | 4 | 35 | 5 | 5 |
| Wolf | | 20 | 2 | 2 | 22 | 2 | 2 |
| Ringed Seal | | 40 | 2 | 1 | 43 | 2 | 1 |
| Bearded Seal | | 4 | 1 | 0 | 4 | 1 | 0 |
| Walrus | | 7 | 1 | 0 | 7 | 1 | 0 |
| Beluga | | 11 | 2 | 1 | 12 | 2 | 1 |
| Canada Geese | | 7 | 4 | 1 | 8 | 4 | 1 |
| Eider | | 1 | 1 | 0 | 1 | 1 | 0 |
| Canada Goose Eggs | | 2 | 2 | 0 | 2 | 2 | 0 |
| Duck Eggs | | 7 | 7 | 0 | 8 | 8 | 0 |
| Other Fowl Eggs | | 6 | 6 | 0 | 6 | 6 | 0 |
| Sea Run Arctic Charr | | 462 | 31 | 30 | 480 | 32 | 30 |
| Lake Trout | | 112 | 6 | 4 | 129 | 7 | 4 |
| Sculpin sp. | | 1 | 1 | 0 | 1 | 1 | 0 |

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. 1983 - Sept. 1984 | | | ESTIMATED HARVEST ² Oct. 1983 - Sept. 1984 | | |
|--------------------------|-----------------------|---|------|------|--|------|------|
| | | Total ³ | Mean | S.D. | Total ³ | Mean | S.D. |
| <u>Caribou</u> | | | | | | | |
| Kaminuriak | U | 3 | 3 | 0 | 4 | 4 | 0 |
| | Subtotal | 3 | 3 | 0 | 4 | 4 | 0 |
| Wager | M | 56 | 2 | 1 | 69 | 3 | 2 |
| | F | 67 | 3 | 2 | 81 | 4 | 3 |
| | U | 46 | 15 | 9 | 55 | 19 | 11 |
| | Subtotal | 169 | 4 | 4 | 205 | 4 | 5 |
| Coates | M | 16 | 5 | 1 | 16 | 5 | 1 |
| | F | 9 | 9 | 0 | 9 | 9 | 0 |
| | U | 11 | 6 | 5 | 11 | 6 | 5 |
| | Subtotal | 36 | 6 | 3 | 36 | 6 | 3 |
| Southampton | M | 121 | 3 | 2 | 175 | 4 | 3 |
| | F | 94 | 3 | 3 | 136 | 4 | 4 |
| | U | 56 | 6 | 4 | 81 | 8 | 5 |
| | Subtotal | 271 | 3 | 3 | 392 | 5 | 4 |
| | Total | 479 | 3 | 3 | 637 | 4 | 4 |
| Polar Bear | | 34 | 1 | 0 | 34 | 1 | 0 |
| Arctic Fox | | 492 | 8 | 10 | 529 | 8 | 11 |
| Wolf | | 1 | 1 | 0 | 1 | 1 | 0 |
| Arctic Hare | | 1 | 1 | 0 | 1 | 1 | 0 |
| Ringed Seal | | 748 | 3 | 5 | 828 | 4 | 5 |
| Bearded Seal | | 57 | 1 | 1 | 68 | 2 | 1 |
| Harp Seal | | 19 | 1 | 1 | 24 | 2 | 1 |
| Seal sp. (unknown) | | 1 | 1 | 0 | 1 | 1 | 0 |
| Walrus | | 33 | 1 | 1 | 44 | 2 | 1 |
| Beluga | | 83 | 2 | 1 | 116 | 3 | 2 |
| Canada Geese | | 125 | 6 | 6 | 137 | 7 | 6 |
| Snow Geese | | 5360 | 40 | 82 | 5557 | 42 | 82 |
| Brant Geese | | 4 | 1 | 0 | 5 | 2 | 1 |
| Geese | | 77 | 39 | 37 | 79 | 39 | 37 |
| Eider | | 42 | 5 | 3 | 53 | 6 | 3 |
| Ptarmigan | | 1117 | 13 | 14 | 1269 | 15 | 15 |
| Swan | | 4 | 1 | 0 | 6 | 2 | 1 |
| Other Fowl | | 2 | 2 | 0 | 2 | 2 | 0 |
| Canada Goose Eggs | | 70 | 35 | 15 | 71 | 35 | 15 |
| Snow Goose Eggs | | 10193 | 192 | 339 | 10290 | 194 | 342 |
| Goose Eggs | | 30 | 30 | 0 | 30 | 30 | 0 |
| Sea Run Arctic Charr | | 2664 | 22 | 29 | 3026 | 25 | 31 |
| Land-Locked Arctic Charr | | 9 | 9 | 0 | 12 | 12 | 0 |
| Other Freshwater Fish | | 13 | 13 | 0 | 19 | 19 | 0 |
| Arctic Cod | | 164 | 6 | 5 | 170 | 7 | 5 |

¹See Table 1.

²See also Tables 3 and 10.

³Complete information on hunter participation was not collected in this community until February 1984.

Table 18. The reported and estimated harvest for Eskimo Point 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. 1983 - Sept. 1984 | | | ESTIMATED HARVEST ² Oct. 1983 - Sept. 1984 | | |
|--------------------------|-----------------------|---|------|------|--|------|------|
| | | Total | Mean | S.D. | Total | Mean | S.D. |
| <u>Caribou</u> | | | | | | | |
| Kaminuriak | M | 877 | 2 | 2 | 908 | 2 | 2 |
| | F | 1568 | 3 | 2 | 1602 | 3 | 2 |
| | C | 84 | 2 | 1 | 89 | 2 | 1 |
| | U | 174 | 2 | 2 | 180 | 3 | 2 |
| | Total | 2703 | 3 | 2 | 2779 | 3 | 2 |
| Moose | | 4 | 1 | 0 | 4 | 1 | 0 |
| Polar Bear | | 21 | 1 | 0 | 21 | 1 | 0 |
| Arctic Fox | | 614 | 4 | 3 | 621 | 4 | 3 |
| Red Fox | | 32 | 2 | 1 | 33 | 2 | 1 |
| Wolf | | 57 | 2 | 1 | 57 | 2 | 1 |
| Weasel | | 2 | 1 | 0 | 2 | 1 | 0 |
| Arctic Hare | | 9 | 1 | 1 | 9 | 1 | 1 |
| Ringed Seal | | 498 | 3 | 3 | 516 | 3 | 4 |
| Bearded Seal | | 50 | 2 | 1 | 51 | 2 | 1 |
| Harbour Seal | | 2 | 1 | 0 | 2 | 1 | 0 |
| Harp Seal | | 3 | 1 | 0 | 3 | 1 | 0 |
| Beluga | | 50 | 2 | 2 | 50 | 2 | 2 |
| Canada Geese | | 641 | 9 | 1 | 649 | 10 | 11 |
| Snow Geese | | 122 | 10 | 19 | 123 | 10 | 19 |
| Geese | | 12 | 12 | 0 | 12 | 12 | 0 |
| Eider | | 11 | 2 | 1 | 12 | 2 | 1 |
| Old Squaw | | 8 | 8 | 0 | 8 | 8 | 0 |
| Mallard | | 1 | 1 | 0 | 1 | 1 | 0 |
| Ptarmigan | | 350 | 9 | 9 | 367 | 9 | 9 |
| Swan | | 1 | 1 | 0 | 1 | 1 | 0 |
| Canada Goose Eggs | | 381 | 42 | 59 | 384 | 43 | 59 |
| Snow Goose Eggs | | 5 | 3 | 2 | 5 | 3 | 2 |
| Goose Eggs | | 60 | 30 | 0 | 61 | 31 | 0 |
| Sea Run Arctic Charr | | 2441 | 15 | 27 | 2489 | 15 | 27 |
| Land-Locked Arctic Charr | | 10 | 5 | 2 | 10 | 5 | 2 |
| Lake Trout | | 951 | 9 | 17 | 970 | 9 | 17 |
| Whitefish sp. | | 148 | 10 | 8 | 154 | 10 | 8 |
| Northern Pike | | 14 | 5 | 3 | 16 | 5 | 4 |
| Arctic Grayling | | 425 | 25 | 20 | 439 | 26 | 21 |
| Other Freshwater Fish | | 20 | 5 | 4 | 20 | 5 | 4 |
| Arctic Cod | | 3 | 3 | 0 | 3 | 3 | 0 |
| Sculpin sp. | | 3 | 3 | 0 | 3 | 3 | 0 |

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 mean monthly harvest per hunter and standard deviation about the mean are given.

| Species | Category ¹ | REPORTED HARVEST ² Oct. 1983 - Sept. 1984 | | | ESTIMATED HARVEST ² Oct. 1983 - Sept. 1984 | | |
|-----------------------------------|-----------------------|---|------|------|--|------|------|
| | | Total | Mean | S.D. | Total | Mean | S.D. |
| <u>Caribou</u> | | | | | | | |
| Kaminuriak | M | 736 | 3 | 2 | 872 | 3 | 3 |
| | F | 368 | 3 | 3 | 427 | 3 | 3 |
| | C | 8 | 2 | 1 | 9 | 2 | 1 |
| | U | 92 | 4 | 4 | 104 | 5 | 4 |
| | Subtotal | 1204 | 3 | 2 | 1412 | 3 | 3 |
| North of Chesterfield | M | 41 | 3 | 2 | 45 | 3 | 2 |
| | F | 36 | 3 | 2 | 40 | 4 | 3 |
| | U | 7 | 7 | 0 | 7 | 7 | 0 |
| | Subtotal | 84 | 3 | 2 | 92 | 3 | 2 |
| | Total | 1288 | 3 | 2 | 1504 | 4 | 4 |
| Polar Bear | | 9 | 1 | 0 | 9 | 1 | 0 |
| Arctic Fox | | 116 | 4 | 3 | 128 | 4 | 3 |
| Wolf | | 10 | 2 | 1 | 10 | 2 | 1 |
| Wolverine | | 1 | 1 | 0 | 1 | 1 | 0 |
| Arctic Hare | | 6 | 2 | 0 | 7 | 2 | 0 |
| Arctic Ground Squirrel | | 1 | 1 | 0 | 1 | 1 | 0 |
| Ringed Seal | | 339 | 3 | 4 | 414 | 4 | 5 |
| Bearded Seal | | 15 | 1 | 0 | 18 | 1 | 0 |
| Harbour Seal | | 1 | 1 | 0 | 1 | 1 | 0 |
| Harp Seal | | 1 | 1 | 0 | 1 | 1 | 0 |
| Seal sp. (unknown) | | 3 | 3 | 0 | 4 | 4 | 0 |
| Walrus | | 1 | 1 | 0 | 1 | 1 | 0 |
| Beluga | | 65 | 2 | 2 | 69 | 3 | 2 |
| Canada Geese | | 396 | 11 | 15 | 401 | 11 | 15 |
| Snow Geese | | 237 | 9 | 10 | 301 | 12 | 14 |
| Brant Geese | | 8 | 8 | 0 | 11 | 11 | 0 |
| Eider | | 24 | 3 | 3 | 28 | 3 | 4 |
| Ptarmigan | | 251 | 14 | 13 | 291 | 16 | 14 |
| Sandhill Crane | | 2 | 1 | 0 | 3 | 1 | 0 |
| Swan | | 7 | 2 | 1 | 9 | 2 | 1 |
| Other Fowl | | 1 | 1 | 0 | 1 | 1 | 0 |
| Canada Goose Eggs | | 94 | 19 | 12 | 94 | 19 | 12 |
| Other Fowl Eggs | | 16 | 8 | 4 | 22 | 11 | 6 |
| Sea Run Arctic Charr ³ | | 4690 ³ | 30 | 62 | 5087 | 33 | 66 |
| Land-Locked Arctic Charr | | 19 | 19 | 0 | 27 | 27 | 0 |
| Lake Trout | | 369 | 9 | 6 | 458 | 12 | 9 |
| Whitefish sp. | | 7 | 4 | 3 | 8 | 4 | 3 |

¹See Table 1.

²See also Tables 5 and 12.

³673 Arctic charr from the commercial harvest were inadvertently included in the reported harvest. Normally commercial landings have not been included in this study.

Table 20. The reported and estimated harvest for Repulse Bay 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. 1983 - Sept. 1984 | | | ESTIMATED HARVEST ² Oct. 1983 - Sept. 1984 | | |
|--------------------------|-----------------------|---|------|------|--|------|------|
| | | Total | Mean | S.D. | Total ³ | Mean | S.D. |
| <u>Caribou</u> | | | | | | | |
| Kaminuriak | M | 25 | 2 | 1 | 34 | 2 | 1 |
| | F | 4 | 1 | 0 | 6 | 2 | 1 |
| | U | 1 | 1 | 0 | 1 | 1 | 0 |
| | Subtotal | 30 | 2 | 1 | 41 | 2 | 1 |
| Wager Bay | M | 461 | 2 | 2 | 699 | 3 | 3 |
| | F | 208 | 2 | 2 | 336 | 3 | 3 |
| | C | 5 | 2 | 0 | 7 | 2 | 1 |
| | U | 99 | 3 | 2 | 165 | 5 | 4 |
| | Subtotal | 773 | 2 | 2 | 1207 | 3 | 3 |
| North of Chesterfield | M | 17 | 2 | 1 | 23 | 3 | 2 |
| | Subtotal | 17 | 2 | 1 | 23 | 3 | 2 |
| Other | M | 5 | 3 | 1 | 7 | 3 | 1 |
| | U | 1 | 1 | 0 | 1 | 1 | 0 |
| | Subtotal | 6 | 2 | 1 | 8 | 3 | 1 |
| | Total | 826 | 2 | 2 | 1279 | 2 | 2 |
| Polar Bear | | 9 | 1 | 0 | 14 | 2 | 0 |
| Arctic Fox | | 160 | 3 | 2 | 280 | 5 | 4 |
| Red Fox | | 2 | 1 | 0 | 3 | 2 | 0 |
| Wolf | | 27 | 2 | 1 | 46 | 3 | 1 |
| Wolverine | | 6 | 2 | 1 | 10 | 2 | 1 |
| Arctic Hare | | 3 | 1 | 0 | 6 | 2 | 1 |
| Ringed Seal | | 363 | 3 | 2 | 553 | 4 | 4 |
| Bearded Seal | | 17 | 1 | 1 | 25 | 2 | 1 |
| Harp Seal | | 4 | 1 | 0 | 6 | 1 | 0 |
| Walrus | | 3 | 1 | 0 | 5 | 1 | 0 |
| Beluga | | 16 | 3 | 2 | 25 | 4 | 3 |
| Narwhal | | 20 | 1 | 1 | 31 | 2 | 1 |
| Canada Geese | | 5 | 2 | 1 | 7 | 2 | 1 |
| Snow Geese | | 3 | 3 | 0 | 4 | 4 | 0 |
| Eider | | 4 | 2 | 1 | 5 | 3 | 1 |
| Old Squaw | | 5 | 5 | 0 | 6 | 6 | 0 |
| Ptarmigan | | 53 | 5 | 6 | 82 | 8 | 10 |
| Sandhill Crane | | 1 | 1 | 0 | 1 | 1 | 0 |
| Sea Run Arctic Charr | | 1552 | 30 | 34 | 2168 | 42 | 46 |
| Land-Locked Arctic Charr | | 18 | 18 | 0 | 31 | 31 | 0 |
| Lake Trout | | 45 | 5 | 2 | 62 | 7 | 3 |
| Other Freshwater Fish | | 125 | 125 | 0 | 216 | 216 | 0 |

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 high.

Table 21. The reported and estimated harvest for Whale Cove 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 Nov. 1983 - Sept. 1984 | | | ESTIMATED HARVEST ² Nov. 1983 - Sept. 1984 | | |
|--------------------------|-----------------------|---|------|------|--|------|------|
| | | Total ³ | Mean | S.D. | Total ³ | Mean | S.D. |
| <u>Carihou</u> | | | | | | | |
| Kaminuriak | M | 249 | 3 | 2 | 294 | 3 | 3 |
| | F | 231 | 3 | 2 | 242 | 4 | 2 |
| | U | 9 | 5 | 3 | 9 | 5 | 3 |
| | Total | 489 | 3 | 2 | 545 | 3 | 3 |
| Polar Bear | | 8 | 1 | 0 | 8 | 1 | 0 |
| Arctic Fox | | 36 | 9 | 10 | 36 | 9 | 10 |
| Wolf | | 9 | 2 | 1 | 9 | 2 | 1 |
| Arctic Hare | | 7 | 4 | 2 | 8 | 4 | 1 |
| Ringed Seal | | 85 | 2 | 1 | 106 | 3 | 2 |
| Bearded Seal | | 7 | 1 | 0 | 10 | 2 | 1 |
| Harbour Seal | | 4 | 2 | 0 | 6 | 3 | 0 |
| Beluga | | 18 | 3 | 2 | 24 | 4 | 3 |
| Canada Geese | | 19 | 10 | 1 | 24 | 12 | 1 |
| Snow Geese | | 415 | 15 | 18 | 540 | 20 | 25 |
| Eider | | 8 | 4 | 2 | 9 | 5 | 2 |
| Ptarmigan | | 11 | 6 | 1 | 12 | 6 | 1 |
| Goose Eggs | | 21 | 7 | 4 | 24 | 8 | 5 |
| Sea Run Arctic Charr | | 692 | 23 | 38 | 961 | 32 | 55 |
| Land-Locked Arctic Charr | | 1 | 1 | 0 | 1 | 1 | 0 |
| Lake Trout | | 289 | 12 | 21 | 314 | 13 | 22 |

¹See Table 1.

²See also Tables 7 and 14.

³No harvest data were collected in October from this community because of fieldworkers changeover. Complete information on hunter participation was not collected until January 1984.

Table 22. Monthly theoretical kill factors ¹ for seven Keewatin communities.

| | 1983 | | | 1984 | | | | | | | | |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|-------|
| | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
| Baker Lake | 1.00 | 1.07 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.08 | 1.00 | 1.00 | 1.00 | 1.00 |
| Chesterfield Inlet | 1.00 | 1.00 | 1.04 | 1.14 | 1.27 | 1.00 | 1.00 | 1.35 | 1.07 | 1.39 | 1.03 | 1.00 |
| Coral Harbour | | | | | 1.05 | 1.17 | 1.21 | 1.42 | 1.01 | 1.35 | 1.44 | 1.61 |
| Eskimo Point | 1.03 | 1.01 | 1.00 | 1.00 | 1.05 | 1.01 | 1.01 | 1.01 | 1.02 | 1.01 | 1.02 | 1.12 |
| Rankin Inlet | 1.95 | 1.15 | 1.02 | 1.16 | 1.18 | 1.02 | 1.06 | 1.42 | 1.00 | 1.38 | 1.00 | 1.06 |
| Repulse Bay | 1.73 | 1.42 | 2.37 | 1.66 | 2.04 | 1.76 | 1.76 | 1.36 | 1.25 | 1.80 | 1.29 | 1.55 |
| Whale Cove | | | | 1.92 | 1.01 | 1.02 | 1.00 | 1.13 | 1.47 | 1.48 | 1.45 | 1.07 |

¹Value by which the reported kill per species is multiplied to arrive at the estimated harvest (see page 15).

Table 23. The harvest by species over the range of age for Baker Lake hunters covering the period 1981 to 1984.

| | | Number of Animals Harvested Per Age Class of Hunter | | | | | | | | | | | | | | | |
|-----------------------|-----------------------|---|------|------|------|----------------|-----------|-----|------|------|----------------|-----------|------|------|------|----------------|----|
| | | 1981-1982 | | | | | 1982-1983 | | | | | 1983-1984 | | | | | |
| Species | Category ¹ | 1 | 2 | 3 | 4 | 5 ² | 1 | 2 | 3 | 4 | 5 ² | 1 | 2 | 3 | 4 | 5 ² | |
| Caribou | | | | | | | | | | | | | | | | | |
| Kaminuriak | M | 15 | 304 | 557 | 359 | 91 | | | 244 | 556 | 263 | 72 | 3 | 137 | 210 | 115 | 46 |
| | F | 5 | 111 | 373 | 244 | 72 | | | 156 | 445 | 209 | 62 | | 38 | 84 | 98 | 16 |
| | C | | 1 | 4 | | | | | | | | | | | | | |
| | U | | 8 | 4 | 7 | 7 | | | | | | | 4 | 9 | | | |
| | Subtotal | 20 | 424 | 938 | 610 | 170 | | | 400 | 1001 | 472 | 134 | 3 | 179 | 303 | 213 | 62 |
| Beverly | M | | 7 | 37 | 22 | | 4 | 193 | 432 | 213 | 72 | 25 | 519 | 870 | 436 | 153 | |
| | F | | 9 | 53 | 2 | 6 | 4 | 84 | 322 | 90 | 40 | 8 | 339 | 702 | 386 | 125 | |
| | C | | | | | | | | | 4 | | | | | | | |
| | U | | | 60 | | | | | | | | | 9 | 3 | 9 | | |
| | Subtotal | | 16 | 150 | 24 | | 8 | 277 | 754 | 307 | 112 | 33 | 867 | 1575 | 831 | 278 | |
| Wager | M | | | 5 | | | 2 | 226 | 402 | 241 | 73 | 4 | 284 | 535 | 306 | 87 | |
| | F | | | | | | | 87 | 124 | 91 | 14 | 5 | 142 | 264 | 143 | 42 | |
| | C | | | | | | | | | | | | | | | | |
| | U | | | | | | | 3 | | | | | 28 | 23 | 6 | 13 | |
| | Subtotal | | | 5 | | | 2 | 316 | 526 | 332 | 87 | 9 | 454 | 822 | 455 | 142 | |
| Other | M | | | | | | | | | | | 1 | 14 | 37 | 11 | | |
| | F | | | | | | | | | | | | 11 | 27 | 9 | 11 | |
| | C | | | | | | | | | | | | | | | | |
| | U | | | | | | | | | | | | | | | 4 | |
| | Subtotal | | | | | | | | | | | 1 | 25 | 64 | 24 | 11 | |
| Total | | 20 | 440 | 1093 | 634 | 176 | 10 | 993 | 2281 | 1111 | 333 | 46 | 1525 | 2764 | 1523 | 493 | |
| Muskox | | | 1 | 5 | | | | 2 | 8 | 1 | | | 4 | 4 | 5 | | |
| Arctic Fox | | | 7 | 64 | 12 | 9 | | 52 | 289 | 200 | 28 | | 70 | 167 | 414 | 105 | |
| Wolf | | | | 11 | | | | 3 | 2 | | 6 | | 8 | 36 | 9 | | |
| Grizzly Bear | | | | | | | | | | | | | | | | 1 | |
| Ringed Seal | | | | | | | | | | 1 | | | 1 | 5 | | | |
| Ptarmigan | | | | 4 | | | | | | | | 26 | 216 | 33 | 28 | 46 | |
| Canada Geese | | | | | | | | | | | | | 101 | 105 | 62 | 16 | |
| Snow Geese | | | | | | | | | | | | | 138 | 147 | 39 | 15 | |
| Goose Eggs | | | | | | | | | | | | 11 | 897 | 1212 | 564 | 38 | |
| Arctic Charr | | | | 128 | | | | | | | | | 16 | 115 | 58 | 14 | |
| Lake Trout | | 20 | 5617 | 517 | 3583 | 1513 | 162 | 281 | 1512 | 673 | 538 | | 162 | 1257 | 1193 | 776 | |
| Whitefish sp. | | | | | | | | 72 | 204 | | | | 23 | 315 | 102 | 195 | |
| Northern Pike | | | | | | | | | | | | | | 16 | 9 | | |
| Arctic Grayling | | | | | | | | | | | | | | 18 | 7 | | |
| Other Freshwater Fish | | | 80 | | | | | | | | | | | | | | |

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 covering the period 1981 to 1984.

| | | Number of Animals Harvested Per Age Class of Hunter | | | | | | | | | | | | | | |
|--------------------------|-----------------------|---|----|-----|----|----------------|-----------|-----|-----|----|----------------|-----------|-----|-----|----|----------------|
| | | 1981-1982 | | | | | 1982-1983 | | | | | 1983-1984 | | | | |
| Species | Category ¹ | 1 | 2 | 3 | 4 | 5 ² | 1 | 2 | 3 | 4 | 5 ² | 1 | 2 | 3 | 4 | 5 ² |
| <u>Caribou</u> | | | | | | | | | | | | | | | | |
| Kaminuriak | M | | 4 | 5 | 2 | 1 | | 4 | 10 | 10 | | | 18 | 12 | 20 | 4 |
| | F | | 1 | 3 | 2 | | | 3 | 9 | 13 | | | 7 | 6 | 12 | 2 |
| | C | | | | | | | | | | | | | | | |
| | U | | | | | | | | 4 | | | | | | 2 | |
| | Subtotal | | 5 | 8 | 4 | 1 | | 7 | 23 | 23 | | | 25 | 18 | 34 | 6 |
| North of Chesterfield | M | 2 | 15 | 25 | 29 | | 56 | 102 | 75 | 19 | | 31 | 59 | 82 | | 5 |
| | F | | 14 | 8 | 5 | | 30 | 41 | 66 | 5 | | 12 | 19 | 34 | | |
| | C | | | | | | 1 | | | | | | | | | |
| | U | | | | | | 1 | 1 | | | | 2 | | 1 | | |
| | Subtotal | 2 | 29 | 33 | 34 | | 88 | 144 | 141 | 24 | | 45 | 78 | 117 | | 5 |
| Other | M | | | | | | | | | | | | 2 | | 3 | |
| | F | | | | | | | | | | | | | | | |
| | C | | | | | | | | | | | | | | | |
| | U | | | | | | | | | | | | | | | |
| | Subtotal | | | | | | | | | | | | 1 | 7 | | |
| | Total | 2 | 34 | 41 | 38 | 1 | 95 | 167 | 164 | 24 | | 73 | 103 | 154 | | 11 |
| Polar Bear | | 1 | | 1 | | | | 4 | 3 | | | 1 | 5 | 3 | | |
| Arctic Fox | | | | 4 | 10 | | 25 | 90 | 324 | 4 | | 5 | | 28 | | |
| Wolf | | | | | | | 1 | 1 | 5 | 1 | | 2 | 5 | 1 | 12 | |
| Ringed Seal | | | 7 | 12 | 18 | | 33 | 30 | 49 | 2 | | | 4 | 13 | 21 | 2 |
| Bearded Seal | | | 2 | | | | | | | | | | 1 | | 3 | |
| Walrus | | | | | | | | 1 | 7 | | | | | 3 | 3 | 1 |
| Beluga | | | 2 | 5 | 1 | | | | 7 | | | | 1 | 1 | 9 | |
| Canada Geese | | | | | | | | | | | | | 7 | | | |
| Snow Geese | | | 6 | 13 | | | 15 | | | | | | | | | |
| Eider | | | | | | | 25 | | 1 | | | | 1 | | | |
| Canada Goose Eggs | | | | | | | | | | | | | 2 | | | |
| Duck Eggs | | | | | | | | | | | | | 7 | | | |
| Other Fowl Eggs | | | | | | | | | | | | | 6 | | | |
| Arctic Charr | | | 40 | | 12 | | 20 | 5 | 121 | | | 176 | 91 | 195 | | |
| Lake Trout | | | 69 | 101 | 41 | | 28 | 110 | 98 | 27 | | 47 | 30 | 30 | | 5 |
| Sculpin sp. | | | | | | | | | | | | 1 | | | | |

¹See Table 1.²For age classes see Table 23.

Table 25. The harvest by species over the range of age for Coral Harbour hunters covering the period 1981 to 1984.

| | | Number of Animals Harvested Per Age Class of Hunter | | | | | | | | | | | | | | |
|-----------------------|-----------------------|---|-----|-----|------|----------------|-----------|-----|-----|-----|----------------|-----------|------|------|------|----------------|
| | | 1981-1982 | | | | | 1982-1983 | | | | | 1983-1984 | | | | |
| Species | Category ¹ | 1 | 2 | 3 | 4 | 5 ² | 1 | 2 | 3 | 4 | 5 ² | 1 | 2 | 3 | 4 | 5 ² |
| <u>Caribou</u> | | | | | | | | | | | | | | | | |
| Kaminuriak | M | | | | | | | | | | | | | | | |
| | F | | | | | | | | | | | | | | | |
| | C | | | | | | | | | | | | | | | |
| | U | | | | | | | | | | | | | 3 | | |
| | Subtotal | | | | | | | | | | | | | 3 | | |
| Wager | M | | | | | | | | | | | | | 25 | 11 | 12 |
| | F | | | | | | | | | | | | | 34 | 13 | 8 |
| | C | | | | | | | | | | | | | | 13 | 7 |
| | U | | | | | | | | | | | | | 24 | 22 | |
| | Subtotal | | | | | | | | | | | | | 83 | 46 | 25 |
| Coates | M | | | 1 | 2 | 8 | | 46 | 34 | | 2 | | | | 10 | 6 |
| | F | | | 2 | 4 | 4 | | 25 | 37 | | 8 | | | 9 | | |
| | C | | | | | | | | | | | | | | | |
| | U | | | | | | | 31 | 2 | 10 | | | | 1 | 10 | |
| | Subtotal | | | 3 | 2 | 6 | 12 | 102 | 73 | 10 | 10 | | | 10 | 20 | 6 |
| Southampton | M | | | | 3 | 1 | 9 | 2 | 4 | 3 | 8 | | | 50 | 39 | 19 |
| | F | | | | | 1 | | | 1 | 3 | | | | 42 | 29 | 8 |
| | C | | | | | | | | | | | | | | | |
| | U | | | | | | | | | 1 | | | | 4 | 37 | 3 |
| | Subtotal | | | | 3 | 1 | 10 | 2 | 5 | 7 | 8 | | | 96 | 105 | 30 |
| | Total | | | 3 | 5 | 7 | 22 | 104 | 78 | 17 | 18 | | | 192 | 171 | 61 |
| Polar Bear | | | | | | 1 | | 5 | 5 | 4 | 5 | | | 12 | 9 | 9 |
| Arctic Hare | | | | 2 | 11 | 12 | | 23 | 108 | 343 | 177 | | | 64 | 116 | 269 |
| Wolf | | | | | | | | | | | | | | | | 1 |
| Arctic Hare | | | | | | | | | 9 | 9 | 3 | | | 1 | | |
| Ringed Seal | | 92 | 42 | 68 | 99 | | 124 | 116 | 139 | 45 | | 3 | 209 | 235 | 191 | 110 |
| Bearded Seal | | 1 | 3 | 4 | 11 | | 11 | 6 | 34 | 5 | | | 25 | 9 | 19 | 4 |
| Harp Seal | | 14 | 18 | 8 | 14 | | 21 | 18 | 22 | 3 | | | 9 | 3 | 2 | 5 |
| Harbour Seal | | | | | | | | | | 3 | | | | | | |
| Seal sp. (unknown) | | | | 4 | 11 | 1 | | | | | | | | | 1 | |
| Walrus | | 5 | 3 | 13 | 7 | | 11 | 12 | 21 | 2 | | | 11 | 6 | 12 | 4 |
| Beluga | | 9 | 18 | 8 | 25 | | 47 | 25 | 44 | 10 | | 1 | 28 | 31 | 19 | 4 |
| Snowy Owl | | | | | 1 | | | | | | | | | | | |
| Ptarmigan | | 26 | 100 | 5 | 148 | | 66 | 285 | 130 | 231 | | | 280 | 441 | 266 | 130 |
| Canada Geese | | 27 | 29 | 122 | 158 | | 3 | | 6 | 19 | | | 16 | 68 | 35 | 6 |
| Snow Geese | | 552 | 427 | 564 | 913 | | 60 | 37 | 134 | 6 | | 300 | 2051 | 1196 | 1294 | 519 |
| Brant Geese | | | | | | | | | | | | | 1 | | 3 | |
| Ross's Geese | | 36 | 30 | 32 | 50 | | | | | | | | | | | |
| Swan | | | | | | 1 | | | | | | | 2 | | 2 | |
| Old Squaw | | | | | 1 | | | | | | | | | | | |
| Guillemot | | | | | 2 | | | | | | | | | | | |
| Eider | | 64 | 42 | 16 | 70 | | 27 | | 24 | | | | 2 | 6 | 21 | 13 |
| Other Fowl | | 3 | | | | | | | 2 | | | | | 2 | | |
| Geese | | | | | | | | | | | | | 75 | 6 | 2 | |
| Snow Goose Eggs | | | | | | | | | | | | | 238 | 5522 | 2315 | 558 |
| Canada Goose Eggs | | | | | | | | | | | | | | | 70 | 1560 |
| Goose Eggs | | | | | | | | | | | | | | 30 | | |
| Brant Eggs | | | 1 | | | | | | | | | | | | | |
| Arctic Charr | | 242 | 170 | 603 | 1089 | | 193 | 212 | 767 | 99 | | 2 | 605 | 767 | 915 | 384 |
| Lake Trout | | | | | | | | | | 154 | | | | | | |
| Other Freshwater Fish | | | | | | | | | | | | | 13 | | | |
| Arctic Cod | | | | 4 | 6 | | | | | | | 25 | 62 | 25 | 35 | 17 |

¹See Table 1.²For age classes see Table 23.

Table 26. The harvest by species over the range of age for Eskimo Point hunters covering the period 1981 to 1984.

| | | Number of Animals Harvested Per Age Class of Hunter | | | | | | | | | | | | | | |
|-----------------------|-----------------------|---|-----|------|-----|----------------|-----------|-----|------|-----|----------------|-----------|-----|------|-----|----------------|
| Species | Category ¹ | 1981-1982 | | | | | 1982-1983 | | | | | 1983-1984 | | | | |
| | | 1 | 2 | 3 | 4 | 5 ² | 1 | 2 | 3 | 4 | 5 ² | 1 | 2 | 3 | 4 | 5 ² |
| <u>Caribou</u> | | | | | | | | | | | | | | | | |
| Kaminuriak | M | 2 | 363 | 588 | 325 | 32 | 11 | 229 | 358 | 212 | 7 | 3 | 192 | 385 | 285 | 12 |
| | F | 2 | 232 | 540 | 229 | 18 | 12 | 298 | 467 | 296 | 20 | 2 | 339 | 759 | 438 | 30 |
| | C | 6 | 52 | 48 | 42 | 2 | 1 | 30 | 36 | 33 | | | 27 | 27 | 30 | |
| | U | | 48 | 129 | 63 | | | 82 | 107 | 48 | | 4 | 32 | 84 | 52 | 2 |
| | Subtotal | 10 | 695 | 1305 | 659 | 52 | 24 | 639 | 968 | 589 | 27 | 9 | 590 | 1255 | 805 | 44 |
| Wager | U | | | | | | | | 1 | | | | | | | |
| | Subtotal | | | | | | | | 1 | | | | | | | |
| | Total | 10 | 695 | 1305 | 659 | 52 | 24 | 639 | 969 | 589 | 27 | 9 | 590 | 1255 | 805 | 44 |
| Moose | | | | 1 | | | | | | | | | 1 | 3 | | |
| Polar Bear | | | 4 | 3 | 1 | | | 3 | 8 | 3 | | | 8 | 11 | 2 | |
| Arctic Fox | | 5 | 39 | 84 | 199 | 9 | | 433 | 1008 | 787 | 22 | | 110 | 158 | 322 | 24 |
| Red Fox | | | 8 | | 2 | | | 4 | 21 | 17 | 1 | | | 6 | 23 | 3 |
| Wolf | | | 5 | 11 | 1 | | | 1 | 19 | | | | 11 | 32 | 14 | |
| Marten | | | | | | | | 1 | | | | | | | | |
| Weasel | | | | | | | | | | | | | | 2 | | |
| Muskrat | | | | | | | | | 1 | | | | | | | |
| Arctic Hare | | | 12 | 6 | | | | 6 | 8 | 9 | | | 1 | 8 | | |
| Ringed Seal | | 1 | 116 | 155 | 37 | 1 | | 82 | 124 | 26 | | | 146 | 239 | 112 | 1 |
| Bearded Seal | | | 3 | 15 | 1 | | | 8 | 13 | 1 | | | 11 | 31 | 8 | |
| Harp Seal | | | 1 | 3 | | | | 4 | 2 | | | | 1 | 2 | | |
| Harbour Seal | | | | 2 | | | | 1 | 2 | | | | 1 | 1 | | |
| Seal sp. (unknown) | | | | | | | | 1 | | | | | | | | |
| Beluga | | | 15 | 45 | 9 | | 1 | 24 | 25 | 5 | 1 | | 12 | 19 | 19 | |
| Ptarmigan | | 6 | 56 | 101 | 18 | | | 42 | 65 | 4 | | | 100 | 130 | 103 | 17 |
| Canada Geese | | | 30 | 14 | 2 | 2 | | 378 | 100 | 30 | | 23 | 257 | 220 | 136 | 5 |
| Snow Geese | | | 319 | 193 | 49 | 21 | | 3 | 83 | | | | 19 | 18 | 85 | |
| Geese | | | | | | | | | | | | | 12 | | | |
| Goose Eggs | | | | | | | | 640 | 300 | 90 | | 200 | 131 | 10 | 94 | 11 |
| Duck Eggs | | | | | | | | 7 | 6 | | | | | | | |
| Other Waterfowl Eggs | | | | | | | | | 1 | | | | | | | |
| Other Fowl Eggs | | | | | | | | | 6 | | | | | | | |
| Mallard | | | 2 | | | | | | | | | | | | 1 | |
| Eider | | | | 1 | | | | 2 | 1 | | | | 6 | 3 | 2 | |
| Old Squaw | | | | | | | | 7 | | | | | 8 | | | |
| Swan | | | | | | | | | | | | | 1 | | | |
| Snowy Owl | | | | 1 | | | | | | | | | | | | |
| Arctic Charr | | 4 | 741 | 927 | 317 | 10 | | 223 | 1295 | 423 | 9 | 10 | 522 | 1378 | 512 | 29 |
| Lake Trout | | 16 | 315 | 954 | 280 | 21 | | 217 | 446 | 222 | 8 | | 162 | 435 | 336 | 18 |
| Whitefish sp. | | | 200 | 44 | | | | | | | | | 41 | 49 | 58 | |
| Arctic Grayling | | | 161 | 28 | 17 | | | 1 | 11 | | | | 91 | 328 | 6 | |
| Northern Pike | | | | 8 | | | | 50 | 6 | 7 | 20 | | | | 14 | |
| Sculpin sp. | | | | | | | | 1 | | | | | 6 | | | |
| Arctic Cod | | | 90 | | | | | 39 | 5 | | | | 3 | | | |
| Other Freshwater Fish | | | | | | | | | 2 | | | | | 10 | 10 | |
| Other Saltwater Fish | | | 2 | | | | | | 13 | | | | | | | |

¹See Table 1.²For age classes see Table 23.

Table 27. The harvest by species over the range of age for Rankin Inlet hunters covering the period 1981 to 1984.

| | | Number of Animals Harvested Per Age Class of Hunter | | | | | | | | | | | | | | |
|------------------------------|-----------------------|---|------|------|------|----------------|-----------|-----|------|-----|----------------|-----------|-----|------|------|----------------|
| | | 1981-1982 | | | | | 1982-1983 | | | | | 1983-1984 | | | | |
| Species | Category ¹ | 1 | 2 | 3 | 4 | 5 ² | 1 | 2 | 3 | 4 | 5 ² | 1 | 2 | 3 | 4 | 5 ² |
| <u>Caribou</u> | | | | | | | | | | | | | | | | |
| Kaminuriak | M | | 118 | 264 | 230 | 278 | | 69 | 210 | 161 | 96 | | 179 | 299 | 218 | 40 |
| | F | 1 | 69 | 169 | 142 | 188 | | 47 | 136 | 82 | 94 | | 64 | 198 | 100 | 6 |
| | C | | 8 | 17 | 10 | 18 | | 2 | 5 | 4 | 5 | | 2 | 3 | 3 | |
| | U | | 4 | | 12 | | | | 20 | 15 | 16 | | 31 | 27 | 30 | 4 |
| | Subtotal | 1 | 199 | 450 | 394 | 484 | | 118 | 371 | 262 | 211 | | 276 | 527 | 351 | 50 |
| <u>North of Chesterfield</u> | | | | | | | | | | | | | | | | |
| | M | | | | | | | | | | | | 9 | 10 | 16 | 6 |
| | F | | | | | | | | | | | | 5 | 5 | 21 | 5 |
| | C | | | | | | | | | | | | | | | |
| | U | | | | | | | | | | | | | 7 | | |
| | Subtotal | | | | | | | | | | | | 14 | 22 | 37 | 11 |
| | Total | 1 | 199 | 450 | 394 | 484 | | 118 | 371 | 262 | 211 | | 290 | 549 | 388 | 61 |
| Polar Bear | | | | 5 | 1 | | | 4 | 3 | 1 | 1 | | 2 | 4 | 3 | |
| Arctic Ground Squirrel | | | | | | | | | | | | | 1 | | | |
| Arctic Fox | | | 3 | 5 | 5 | 15 | | 77 | 194 | 224 | 88 | | 3 | 58 | 39 | 16 |
| Wolf | | | | 5 | 1 | 2 | | | 25 | | | | 4 | 5 | 1 | |
| Wolverine | | | | | | | | | 3 | | | | | 1 | | |
| Arctic Hare | | | | 3 | | 5 | | | 1 | | 5 | | | 5 | 1 | |
| Ringed Seal | | | 37 | 139 | 58 | 60 | | 32 | 158 | 55 | 47 | | 95 | 130 | 106 | 8 |
| Bearded Seal | | | | 6 | 1 | 2 | | 2 | 7 | 3 | 1 | | 3 | 7 | 5 | |
| Harbour Seal | | | | | | | | | 1 | | | | | | 1 | |
| Harp Seal | | | | | | | | | | | | | | | 1 | |
| Seal sp. (unknown) | | | | | | | | | | | | | | 3 | | |
| Walrus | | | 1 | | | | | 7 | 3 | 7 | 2 | | | | 1 | |
| Beluga | | | | 21 | 8 | 3 | | | 13 | 3 | | | 19 | 25 | 15 | 6 |
| Canada Geese | | | 56 | 144 | 154 | 182 | | 8 | 2 | 6 | | | 91 | 142 | 159 | 4 |
| Snow Geese | | | 1 | 8 | 11 | 24 | | 30 | 27 | 21 | 13 | | 30 | 124 | 63 | 20 |
| Brant Geese | | | | | | | | | | | | | | | 8 | |
| Geese | | 1 | | | | | | | | | | | | | | |
| Ptarmigan | | | 7 | 9 | 3 | 4 | | 65 | 8 | | 12 | 10 | 25 | 80 | 94 | 42 |
| Swan | | | | | | | | | | | | | | 4 | | 3 |
| Eider | | | 17 | 5 | 2 | 4 | | | | | 2 | | 1 | 7 | 16 | |
| Goose Eggs | | | | | | | | | | | | | 52 | 42 | | |
| Other Fowl Eggs | | | | | | | | | | | | | 4 | | 12 | |
| Sandhill Crane | | | 1 | | | 2 | | | | | | | | | 2 | |
| Other Fowl | | | | | | | | | | | | | 1 | | | |
| Arctic Charr | | 24 | 1498 | 2362 | 2318 | 1154 | | 250 | 1632 | 805 | 742 | | 482 | 1697 | 2275 | 255 |
| Lake Trout | | | 20 | 51 | 14 | 19 | | 38 | 37 | 63 | 8 | 10 | 60 | 87 | 164 | 48 |
| Arctic Grayling | | | | | | 10 | | | | | | | | | | |
| Whitefish sp. | | | | | | | | | | | | | | 6 | | 1 |
| Other Freshwater Fish | | | 5 | | 40 | 2 | | | 37 | 14 | 49 | | | | | |
| Other Saltwater Fish | | | | 24 | | 52 | | | 50 | | | | | | | |

¹See Table 1.²For age classes see Table 23.

Table 28. The harvest by species over the range of age for Repulse Bay hunters covering the period 1981 to 1984.

| | | Number of Animals Harvested Per Age Class of Hunter | | | | | | | | | | | | | | |
|--------------------------|-----------------------|---|-----|-----|-----|----------------|-----------|-----|-----|-----|----------------|-----------|-----|-----|-----|----------------|
| | | 1981-1982 | | | | | 1982-1983 | | | | | 1983-1984 | | | | |
| Species | Category ¹ | 1 | 2 | 3 | 4 | 5 ² | 1 | 2 | 3 | 4 | 5 ² | 1 | 2 | 3 | 4 | 5 ² |
| <u>Caribou</u> | | | | | | | | | | | | | | | | |
| Kaminuriak | M | | | | | | | | 1 | | | 15 | 8 | 2 | | |
| | F | | | 1 | | | | | | | | 3 | 1 | | | |
| | U | | | | | | | | | | | 1 | | | | |
| | Subtotal | | | 1 | | | | | 1 | | | 19 | 9 | 2 | | |
| Beverly | M | | 2 | | 1 | 1 | | | | | | | | | | |
| | F | | 4 | | | | | | | | | | | | | |
| | Subtotal | | 6 | | 1 | 1 | | | | | | | | | | |
| Wager | M | | 74 | 120 | 106 | 69 | | 103 | 92 | 101 | 64 | | 130 | 184 | 82 | 65 |
| | F | | 55 | 84 | 59 | 43 | 1 | 31 | 55 | 53 | 47 | | 36 | 115 | 32 | 25 |
| | C | | 1 | 6 | 5 | 7 | | | | 6 | 1 | | | 1 | 4 | |
| | U | | 10 | | 2 | 19 | | | | 4 | | | 23 | 27 | 26 | 23 |
| | Subtotal | | 140 | 210 | 172 | 138 | 1 | 134 | 147 | 164 | 112 | | 189 | 327 | 144 | 113 |
| North of Chesterfield | M | | | | | | | | | | | | 5 | 1 | 9 | 2 |
| | Subtotal | | | | | | | | | | | | 5 | 1 | 9 | 2 |
| Other | M | | | | | | | | | | | | | 3 | | |
| | U | | | | | | | | | | | | 2 | | 1 | |
| | Subtotal | | | | | | | | | | | | 2 | | 1 | |
| | Total | | 146 | 211 | 173 | 139 | 1 | 134 | 148 | 164 | 112 | | 215 | 340 | 156 | 115 |
| Polar Bear | | | 2 | 3 | 4 | 1 | | 2 | 2 | 3 | 5 | | 1 | 8 | | |
| Grizzly Bear | | | | 2 | | | | | | | | | | | | |
| Black Bear | | | | | | | | 1 | | | | | | | | |
| Arctic Fox | | | 16 | 5 | 9 | 16 | | 43 | 14 | 8 | 13 | | 34 | 53 | 46 | 27 |
| Red Fox | | | 1 | | | | | | | | | | | | 2 | |
| Wolf | | | 10 | 9 | 2 | 1 | | 7 | 5 | 1 | 1 | | 8 | 16 | 1 | 2 |
| Wolverine | | | 1 | 2 | | | | | | | | | | 6 | | |
| Arctic Hare | | | 1 | 9 | 1 | 1 | | | 4 | | 1 | | 2 | | 1 | |
| Ringed Seal | | | 145 | 86 | 135 | 29 | | 43 | 86 | 48 | 35 | | 74 | 168 | 80 | 45 |
| Bearded Seal | | | 1 | 1 | 8 | 1 | | 1 | 5 | 2 | 1 | | 7 | 4 | 3 | 3 |
| Harp Seal | | | | 1 | | | | | | | | | 2 | 1 | | 1 |
| Walrus | | | | 4 | 6 | 2 | | 1 | 1 | 1 | 5 | | 1 | 2 | | |
| Beluga | | | 8 | 2 | 2 | 4 | | 8 | 8 | 4 | 4 | | 3 | 13 | | |
| Narwhal | | | 1 | | 1 | 1 | | 2 | 2 | | | | 4 | 10 | 3 | 3 |
| Sandhill Crane | | | | | | | | | | | | | | | 1 | |
| Ptarmigan | | | 15 | 21 | 49 | 8 | | 5 | 1 | 1 | | | 8 | 7 | 3 | 35 |
| Canada Geese | | | | | | | | | 1 | | | | | 5 | | |
| Snow Geese | | | | 6 | 1 | | | | | | | | | 3 | | |
| Ross's Geese | | | 1 | 2 | | | | | | | 7 | | | | | |
| Old Squaw | | | | | | | | | | | | | | 5 | | |
| Guillemot | | | 3 | | | | | | | | | | | | | |
| Eider | | | | 3 | 1 | | | 1 | 9 | | 4 | | | 4 | | |
| Other Fowl | | | | | | | | | 5 | | | | | | | |
| Arctic Charr | | | 153 | 367 | 214 | 248 | | 55 | 321 | 162 | 154 | | 210 | 783 | 410 | 167 |
| Lake Trout | | | 37 | 449 | 69 | 138 | | 45 | 2 | 4 | 10 | | 22 | 18 | 5 | |
| Arctic Grayling | | | | | 6 | | | | | | | | | | | |
| Other Freshwater Fish | | | | | | | | | | | | | | | | 125 |

¹See Table 1.²For age classes see Table 23.

Table 29. The harvest by species over the range of age for Whale Cove hunters covering the period 1981 to 1984.

| | | Number of Animals Harvested Per Age Class of Hunter | | | | | | | | | | | | | | |
|-----------------------|-----------------------|---|-----|------|-----|----------------|-----------|----|----|----|----------------|-----------|-----|-----|-----|----------------|
| | | 1981-1982 | | | | | 1982-1983 | | | | | 1983-1984 | | | | |
| Species | Category ¹ | 1 | 2 | 3 | 4 | 5 ² | 1 | 2 | 3 | 4 | 5 ² | 1 | 2 | 3 | 4 | 5 ² |
| <u>Caribou</u> | | | | | | | | | | | | | | | | |
| Kaminuriak | M | | 70 | 133 | 115 | 69 | | 28 | 25 | 20 | 29 | | 60 | 122 | 33 | 34 |
| | F | | 86 | 149 | 77 | 118 | | 10 | 51 | 38 | 21 | | 53 | 107 | 65 | 6 |
| | C | | 8 | 31 | 4 | | | | 2 | | | | | | | |
| | U | | 3 | | 19 | | | 3 | 3 | | 8 | | 9 | | | |
| | Subtotal | | 167 | 313 | 215 | 187 | | 41 | 81 | 58 | 58 | | 122 | 229 | 98 | 40 |
| Wager Bay | F | | | | 4 | | | | | | | | | | | |
| | Total | | 167 | 313 | 219 | 187 | | 41 | 81 | 58 | 58 | | 122 | 229 | 98 | 40 |
| Polar Bear | | | 3 | 2 | | 1 | | 1 | 2 | 1 | | | 5 | 2 | | 1 |
| Black Bear | | | | | | 1 | | | | | | | | | | |
| Arctic Fox | | | 3 | | 1 | | | 31 | 81 | 41 | 22 | | 2 | 27 | | 7 |
| Red Fox | | | | | | | | | 1 | | | | | | | |
| Wolf | | | | 1 | 1 | 2 | | | | | | | 4 | 5 | | |
| Arctic Hare | | | 8 | 4 | | 1 | | | | | 3 | | 5 | | 2 | |
| Ringed Seal | | | 7 | 54 | 19 | 16 | | 3 | 19 | 8 | 4 | | 37 | 25 | 14 | 9 |
| Bearded Seal | | | | 3 | 3 | | | 1 | 1 | | | | 1 | 5 | 1 | |
| Harp Seal | | | | 1 | | | | | 1 | | | | | | | |
| Harbour Seal | | | | | 2 | | | | 1 | | | | 2 | | | 2 |
| Walrus | | | 1 | 2 | 2 | | | | | | | | | | | |
| Beluga | | | 1 | | 2 | | | | | | | | 3 | | 6 | 6 |
| Narwhal | | | | | | 1 | | | | | | | | | | |
| Canada Geese | | | 12 | 11 | 38 | 5 | | | | | | | | 19 | | |
| Snow Geese | | | 19 | 46 | 13 | 19 | | | | | | | 306 | 101 | 7 | 1 |
| Ross's Geese | | | | | 2 | | | | | | | | | | | |
| Eider | | | 1 | | | 4 | | | | | | | 8 | | | |
| Ptarmigan | | | 2 | 7 | | 2 | | 7 | 13 | | | | | | | 11 |
| Goose Eggs | | | | | | | | | | | | | 11 | 10 | | |
| Arctic Charr | | | 23 | 5051 | 979 | 159 | | 11 | 65 | 1 | 56 | | 89 | 292 | 226 | 86 |
| Lake Trout | | | 73 | 223 | 105 | 39 | | 6 | 54 | 35 | 36 | | 25 | 129 | 102 | 30 |
| Northern Pike | | | 1 | | | | | | | | | | | | | |
| Arctic Grayling | | | | | | 2 | | | | | | | | | | |
| Other Freshwater Fish | | | | 5 | | 4 | | | | | | | | | | |
| Other Saltwater Fish | | | | | 3 | | | | | | | | | | | |
| Whitefish sp. | | | | | | | | 12 | 2 | 42 | | | | | | |

¹See Table 1.²For age classes see Table 23.

Table 30. Data on the distribution of hunters that were successful in obtaining a harvest expressed as a percentage over the range of age of hunters for the period October 1983 to September 1984.

| 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 | 0.0 | 0.8 | 0.8 | 0.8 | 0.7 | 0.6 | 0.6 | 1.3 | 0.7 | 1.2 | 0.6 | 3.5 | 3.2 |
| | 16-30 | 15.6 | 28.8 | 29.4 | 28.5 | 34.0 | 33.8 | 36.1 | 29.9 | 30.3 | 37.2 | 30.6 | 33.9 | 38.7 |
| | 31-45 | 44.8 | 40.2 | 39.5 | 39.8 | 36.6 | 35.7 | 36.1 | 39.6 | 38.8 | 34.9 | 38.9 | 33.9 | 31.0 |
| | 46-60 | 27.1 | 22.0 | 21.8 | 20.3 | 19.6 | 22.1 | 20.3 | 20.8 | 22.4 | 19.8 | 22.3 | 21.6 | 18.1 |
| | 61-75 | 12.5 | 8.3 | 8.4 | 10.6 | 9.2 | 7.8 | 7.0 | 8.4 | 7.9 | 7.0 | 7.6 | 7.0 | 8.9 |
| Number of successful hunters | | 96 | 132 | 119 | 123 | 153 | 154 | 158 | 154 | 152 | 172 | 157 | 171 | 248 |
| Chesterfield Inlet | 0-15 | 0.0 | 0.0 | 0.0 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| | 16-30 | 25.0 | 15.4 | 40.0 | 25.0 | 50.0 | 18.8 | 7.7 | 56.0 | 45.5 | 50.0 | 28.6 | 22.2 | 42.6 |
| | 31-45 | 12.5 | 38.5 | 20.0 | 25.0 | 21.4 | 43.8 | 46.2 | 20.0 | 36.4 | 16.7 | 28.6 | 44.4 | 27.7 |
| | 46-60 | 62.5 | 46.2 | 40.0 | 33.3 | 28.6 | 31.3 | 30.8 | 16.0 | 18.2 | 33.3 | 42.9 | 33.3 | 21.3 |
| | 61-75 | 0.0 | 0.0 | 0.0 | 8.3 | 0.0 | 6.3 | 15.4 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.4 |
| Number of successful hunters | | 8 | 13 | 10 | 12 | 14 | 16 | 13 | 25 | 11 | 6 | 14 | 9 | 47 |
| Coral Harbour | 0-15 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 | 2.9 | 0.0 | 0.0 | 4.0 |
| | 16-30 | 34.5 | 41.7 | 23.5 | 29.4 | 38.2 | 37.5 | 43.2 | 39.0 | 44.8 | 26.5 | 35.6 | 57.1 | 46.0 |
| | 31-45 | 34.5 | 20.8 | 35.3 | 23.5 | 26.5 | 28.1 | 16.2 | 24.4 | 24.0 | 38.2 | 28.9 | 16.7 | 22.2 |
| | 46-60 | 20.7 | 16.7 | 23.5 | 29.4 | 29.4 | 28.1 | 24.3 | 19.5 | 13.5 | 20.6 | 20.0 | 14.3 | 14.3 |
| | 61-75 | 10.3 | 20.8 | 17.6 | 17.6 | 5.9 | 6.3 | 16.2 | 17.1 | 12.5 | 11.8 | 15.6 | 11.9 | 13.5 |
| Number of successful hunters | | 29 | 24 | 17 | 34 | 34 | 32 | 37 | 41 | 96 | 34 | 45 | 42 | 126 |
| Eskimo Point | 0-15 | 2.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 1.2 | 1.6 | 0.0 | 0.0 | 0.9 | 1.7 |
| | 16-30 | 35.0 | 23.7 | 15.1 | 29.6 | 25.3 | 27.5 | 21.3 | 44.4 | 4.3 | 35.4 | 35.8 | 35.8 | 40.9 |
| | 31-45 | 40.0 | 40.7 | 49.1 | 50.0 | 41.8 | 41.3 | 48.9 | 28.4 | 34.9 | 35.4 | 41.5 | 37.6 | 31.3 |
| | 46-60 | 20.0 | 35.6 | 34.0 | 18.5 | 28.6 | 29.4 | 28.7 | 22.2 | 17.5 | 26.3 | 20.8 | 23.9 | 21.3 |
| | 61-75 | 3.0 | 0.0 | 1.9 | 1.9 | 3.3 | 1.8 | 1.1 | 3.7 | 4.8 | 3.0 | 1.9 | 1.8 | 4.8 |
| Number of successful hunters | | 100 | 59 | 53 | 54 | 91 | 109 | 94 | 81 | 63 | 99 | 53 | 109 | 230 |
| Rankin Inlet | 0-15 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| | 16-30 | 13.0 | 16.1 | 12.1 | 29.0 | 31.9 | 17.1 | 28.3 | 34.5 | 32.1 | 28.9 | 25.5 | 22.2 | 34.0 |
| | 31-45 | 47.8 | 45.2 | 51.5 | 45.2 | 34.0 | 43.9 | 39.1 | 25.9 | 41.1 | 42.2 | 37.3 | 44.4 | 33.3 |
| | 46-60 | 21.7 | 29.0 | 27.3 | 22.6 | 25.5 | 34.1 | 19.6 | 25.9 | 23.2 | 22.2 | 29.4 | 29.6 | 20.8 |
| | 61-75 | 17.4 | 9.7 | 9.1 | 3.2 | 8.5 | 4.9 | 10.9 | 13.8 | 3.6 | 6.7 | 7.8 | 3.7 | 11.3 |
| Number of successful hunters | | 23 | 31 | 33 | 31 | 47 | 41 | 46 | 58 | 56 | 45 | 51 | 27 | 159 |
| Repulse Bay | 16-30 | 28.6 | 28.0 | 13.3 | 31.6 | 30.0 | 22.7 | 31.8 | 41.5 | 42.9 | 29.0 | 39.6 | 19.2 | 45.9 |
| | 31-45 | 33.3 | 40.0 | 46.7 | 31.6 | 35.0 | 45.5 | 31.8 | 31.7 | 33.3 | 38.7 | 32.1 | 42.3 | 25.9 |
| | 46-60 | 19.0 | 16.0 | 13.3 | 21.1 | 25.0 | 22.7 | 22.7 | 17.1 | 16.7 | 22.6 | 17.0 | 19.2 | 17.6 |
| | 61-75 | 19.0 | 16.0 | 26.7 | 15.8 | 10.0 | 9.1 | 13.6 | 9.8 | 7.1 | 9.7 | 11.3 | 19.2 | 10.6 |
| Number of successful hunters | | 21 | 25 | 15 | 19 | 20 | 22 | 22 | 41 | 42 | 31 | 53 | 26 | 85 |
| Whale Cove | 16-30 | - | 33.3 | 28.6 | 30.8 | 26.3 | 41.7 | 40.0 | 58.6 | 43.8 | 44.4 | 28.6 | 25.0 | 48.3 |
| | 31-45 | - | 33.3 | 57.1 | 23.1 | 36.8 | 33.3 | 20.0 | 20.7 | 18.8 | - | 28.6 | 25.0 | 20.7 |
| | 46-60 | - | 26.7 | 14.3 | 15.4 | 26.3 | 16.7 | 35.0 | 10.3 | 25.0 | 33.3 | 21.4 | 25.0 | 15.5 |
| | 61-75 | - | 6.7 | 0.0 | 30.8 | 10.5 | 8.3 | 5.0 | 10.3 | 12.5 | 22.2 | 21.4 | 25.0 | 15.5 |
| Number of successful hunters | | - | 15 | 8 | 13 | 19 | 24 | 20 | 29 | 40 | 9 | 14 | 16 | 58 |
| Regional total | 0-15 | 0.7 | 0.3 | 0.3 | 0.7 | 0.5 | 0.2 | 0.5 | 0.7 | 1.6 | 0.8 | 0.3 | 1.8 | 0.7 |
| | 16-30 | 25.6 | 27.1 | 32.8 | 29.0 | 32.0 | 29.9 | 31.3 | 38.7 | 37.4 | 34.6 | 32.3 | 34.5 | 32.6 |
| | 31-45 | 40.4 | 38.8 | 37.6 | 38.5 | 36.0 | 38.2 | 36.9 | 31.0 | 33.9 | 35.4 | 36.2 | 34.3 | 36.1 |
| | 46-60 | 23.8 | 25.8 | 22.1 | 21.7 | 24.3 | 25.9 | 23.9 | 20.3 | 19.3 | 22.5 | 22.7 | 22.3 | 22.8 |
| | 61-75 | 9.4 | 8.0 | 7.2 | 10.1 | 7.1 | 5.8 | 7.4 | 9.3 | 7.8 | 6.8 | 8.5 | 7.3 | 7.8 |
| Total number of successful hunters | | 277 | 299 | 254 | 286 | 378 | 398 | 390 | 429 | 436 | 396 | 386 | 400 | 953 |

Table 31. 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 32. Reported and estimated edible weight values (kg) for harvested species for the period October, 1983 to September, 1984. Data for October 1983 for Whale Cove were unavailable. For November and December (Whale Cove) and October through January (Coral Harbour) the best estimate was the reported harvest as participation statistics were lacking.

| Community and Species | 1983-84 Reported Harvest (kg) | 1983-84 Estimated Harvest (kg) |
|---------------------------|-------------------------------------|--------------------------------------|
| | Total | Total |
| <u>Baker Lake</u> | | |
| Caribou | 304848 | 308569 |
| Muskox | 1430 | 1430 |
| Grizzly Bear | 45 | 45 |
| Ringed Seal | 86 | 88 |
| Canada Geese | 682 | 710 |
| Snow Geese | 542 | 561 |
| Ptarmigan | 140 | 140 |
| Arctic Charr | 508 | 508 |
| Lake Trout | 8894 | 8986 |
| Whitefish sp. | 1778 | 1782 |
| Northern Pike | 53 | 53 |
| Arctic Grayling | 23 | 23 |
| Total | 319029 | 322895 |
| <u>Chesterfield Inlet</u> | | |
| Caribou | 16368 | 18295 |
| Polar Bear | 1429 | 1451 |
| Ringed Seal | 572 | 622 |
| Bearded Seal | 394 | 394 |
| Walrus | 1296 | 1322 |
| Beluga | 5297 | 5923 |
| Canada Geese | 17 | 18 |
| Eider | 2 | 2 |
| Arctic Charr | 1155 | 1201 |
| Lake Trout | 269 | 310 |
| Total | 26799 | 29528 |
| <u>Coral Harbour</u> | | |
| Caribou | 22992 | 30495 |
| Polar Bear | 5399 | 5399 |
| Ringed Seal | 10696 | 11839 |
| Bearded Seal | 5609 | 6719 |
| Harp Seal | 819 | 1063 |
| Walrus | 6108 | 8248 |
| Beluga | 39965 | 55868 |
| Canada Geese | 300 | 328 |
| Snow Geese | 8576 | 8890 |
| Eider | 63 | 80 |
| Ptarmigan | 447 | 508 |
| Swan | 27 | 39 |
| Arctic Charr | 6660 | 7565 |
| Total | 107661 | 137041 |
| <u>Eskimo Point</u> | | |
| Caribou | 129744 | 134096 |
| Moose | 796 | 802 |
| Polar Bear | 3335 | 3390 |
| Arctic Hare | 7 | 7 |
| Ringed Seal | 7121 | 7424 |
| Bearded Seal | 4920 | 5079 |

Table 32 Cont'd.

| Community and Species | 1983-84 Reported Harvest (kg) | 1983-84 Estimated Harvest (kg) |
|-----------------------|-------------------------------------|--------------------------------------|
| | Total | Total |
| Harbour Seal | 55 | 56 |
| Harp Seal | 129 | 131 |
| Beluga | 24075 | 24407 |
| Canada Geese | 1538 | 1557 |
| Snow Geese | 195 | 197 |
| Eider | 17 | 18 |
| Mallard | 1 | 1 |
| Old Squaw | 4 | 4 |
| Ptarmigan | 140 | 147 |
| Swan | 7 | 7 |
| Arctic Charr | 6103 | 6226 |
| Lake Trout | 2282 | 2332 |
| Whitefish sp. | 414 | 430 |
| Northern Pike | 29 | 33 |
| Arctic Grayling | 383 | 394 |
| Total | 181295 | 186738 |
| <u>Rankin Inlet</u> | | |
| Caribou | 61824 | 71980 |
| Polar Bear | 1429 | 1542 |
| Arctic Hare | 9 | 11 |
| Ringed Seal | 4848 | 5907 |
| Bearded Seal | 1476 | 1770 |
| Harbour Seal | 28 | 30 |
| Harp Seal | 43 | 43 |
| Walrus | 185 | 197 |
| Beluga | 31298 | 33081 |
| Canada Geese | 950 | 962 |
| Snow Geese | 379 | 482 |
| Eider | 36 | 42 |
| Ptarmigan | 100 | 117 |
| Sandhill Crane | 8 | 12 |
| Swan | 48 | 59 |
| Arctic Charr | 11725 | 12712 |
| Lake Trout | 886 | 1099 |
| Whitefish sp. | 20 | 22 |
| Total | 115292 | 130068 |
| <u>Repulse Bay</u> | | |
| Caribou | 39648 | 61221 |
| Polar Bear | 1429 | 2338 |
| Arctic Hare | 5 | 9 |
| Ringed Seal | 5248 | 7890 |
| Bearded Seal | 1673 | 2382 |
| Harp Seal | 172 | 245 |
| Walrus | 555 | 766 |
| Beluga | 7704 | 11904 |
| Narwhal | 9922 | 15401 |
| Canada Geese | 12 | 16 |
| Snow Geese | 5 | 7 |
| Eider | 6 | 8 |
| Old Squaw | 3 | 3 |
| Ptarmigan | 21 | 33 |
| Sandhill Crane | 4 | 6 |
| Arctic Charr | 3880 | 5419 |
| Lake Trout | 108 | 147 |
| Total | 70395 | 107795 |

Table 32 Cont'd.

| Community and Species | 1983-84 Reported Harvest (kg) | 1983-84 Estimated Harvest (kg) |
|-----------------------|-------------------------------------|--------------------------------------|
| | Total | Total |
| <u>Whale Cove</u> | | |
| Caribou | 23472 | 26209 |
| Polar Bear | 1270 | 1296 |
| Arctic Hare | 16 | 19 |
| Ringed Seal | 1216 | 1528 |
| Bearded Seal | 689 | 964 |
| Harbour Seal | 111 | 162 |
| Beluga | 8667 | 11660 |
| Canada Geese | 46 | 59 |
| Snow Geese | 664 | 865 |
| Eider | 12 | 14 |
| Ptarmigan | 4 | 5 |
| Arctic Charr | 1730 | 2406 |
| Lake Trout | 694 | 753 |
| Total | 38591 | 45940 |

Table 33. Reported and estimated edible weight values for four major groups of animals harvested by Keewatin communities, October, 1983 to September, 1984.

| 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 |
| 1983 | | | | | | | | | | |
| Oct | 17309 ¹ | 13152 (76.0) | | | 4157 (24.0) | 17309 ¹ | 13152 (76.0) | | | 4157 (24.0) |
| Nov | 24454 | 23232 (95.0) | | | 1222 (5.0) | 26165 | 24858 (95.0) | | | 1307 (5.0) |
| Dec | 16085 | 15456 (96.1) | | | 629 (3.9) | 16085 | 15456 (96.1) | | | 629 (3.9) |
| 1984 | | | | | | | | | | |
| Jan | 18322 | 18000 (98.2) | | | 322 (1.8) | 18322 | 18000 (98.2) | | | 322 (1.8) |
| Feb | 29264 | 28464 (97.3) | | | 780 (2.7) | 29264 | 28464 (97.3) | | | 780 (2.7) |
| Mar | 38428 | 37382 (97.3) | | | 1046 (2.7) | 38428 | 37382 (97.3) | | | 1046 (2.7) |
| Apr | 37292 | 36336 (97.4) | | | 956 (2.6) | 37292 | 36336 (97.4) | | | 956 (2.6) |
| May | 25667 | 24960 (97.2) | 29 (.1) | 562 (2.2) | 117 (.5) | 27821 | 27054 (97.2) | 31 (.1) | 609 (2.2) | 127 (.5) |
| June | 11310 | 9840 (87.0) | 43 (.4) | 662 (5.9) | 765 (6.8) | 11310 | 9840 (87.0) | 43 (.4) | 662 (5.9) | 765 (6.8) |
| July | 25276 | 25056 (99.1) | | | 220 (.9) | 25276 | 25056 (99.1) | | | 220 (.9) |
| Aug | 27836 | 27552 (99.0) | | | 284 (1.0) | 27836 | 27552 (99.0) | | | 284 (1.0) |
| Sept | 47783 | 46893 (98.1) | 14 (.1) | 140 (.3) | 736 (1.5) | 47783 | 46893 (98.1) | 14 (.1) | 140 (.3) | 736 (1.5) |
| Total | 319028 | 306323 (96.0) | 85.8 (.1) | 1364 (.4) | 11255 (3.5) | 322893 | 310044 (96.0) | 88 (.1) | 1411 (.4) | 11350 (3.5) |

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

(a) 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.

(b) For the communities of Coral Harbour over the period October 1983 to January 1984 and Whale Cove over the period November to December 1983, no data was collected on hunter participation. Consequently, no meaningful theoretical kill factors could be calculated. In these cases the best estimate of harvest was taken to be the reported harvest.

Table 33 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 |
| 1983 | | | | | | | | | | |
| Oct | 1101 | 720 (65.4) | 381 (34.6) | | | 1101 | 720 (65.4) | 381 (34.6) | | |
| Nov | 1770 | 1595 (90.1) | 72 (4.0) | | 103 (5.8) | 1770 | 1595 (90.1) | 72 (4.0) | | 103 (5.8) |
| Dec | 845 | 816 (96.6) | 29 (3.4) | | | 878 | 849 (96.6) | 30 (3.4) | | |
| 1984 | | | | | | | | | | |
| Jan | 1455 | 1455 (100.0) | | | | 1659 | 1659 (100.0) | | | |
| Feb | 1872 | 1872 (100.0) | | | | 2370 | 2370 (100.0) | | | |
| Mar | 2831 | 2603 (91.9) | 228 (8.1) | | | 2831 | 2603 (91.9) | 228 (8.1) | | |
| Apr | 2759 | 2016 (73.1) | 740 (26.8) | | 2 (.1) | 2759 | 2016 (73.1) | 740 (26.8) | | 2 (.1) |
| May | 2676 | 2496 (93.3) | 72 (2.7) | | 108 (4.0) | 3612 | 3370 (93.3) | 97 (2.7) | | 146 (4.0) |
| June | 964 | 432 (44.8) | 456 (47.3) | 18 (1.9) | 58 (6.0) | 1031 | 462 (44.8) | 488 (47.3) | 20 (1.9) | 62 (6.0) |
| July | 2187 | 672 (30.7) | 1487 (68.0) | | 28 (1.3) | 3035 | 933 (30.7) | 2065 (68.0) | | 38 (1.3) |
| Aug | 4169 | 1200 (28.8) | 1969 (47.2) | | 1000 (24.0) | 4311 | 1241 (28.8) | 2036 (47.2) | | 1034 (24.0) |
| Sept | 4170 | 1920 (46.0) | 2125 (51.0) | | 125 (3.0) | 4170 | 1920 (46.0) | 2125 (51.0) | | 125 (3.0) |
| Total | 26797 | 17797 (66.4) | 7558 (28.2) | 18 (.1) | 1424 (5.3) | 29527 | 19737 (66.8) | 8260 (28.0) | 20 (.1) | 1510 (5.1) |

Table 33 Cont'd.

| Period | Coral Harhour (reported edible wt) | | | | | Coral Harhour (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 |
| 1983 | | | | | | | | | | |
| Oct | 7765 ¹ | 3224 (41.5) | 2929 (37.7) | 72 (.9) | 1540 (19.8) | 7765 ¹ | 3224 (41.5) | 2929 (37.7) | 72 (.9) | 1540 (19.8) |
| Nov | 4700 | 1621 (34.5) | 2119 (45.1) | 44 (.9) | 915 (19.5) | 4700 | 1621 (34.5) | 2119 (45.1) | 44 (.9) | 915 (19.5) |
| Dec | 1116 | 639 (57.2) | 284 (25.5) | 51 (4.6) | 143 (12.8) | 1116 | 639 (57.2) | 284 (25.5) | 51 (4.6) | 143 (12.8) |
| 1984 | | | | | | | | | | |
| Jan | 6839 | 1835 (26.8) | 4186 (61.2) | 68 (1.0) | 750 (11.0) | 6839 | 1835 (26.8) | 4186 (61.2) | 68 (1.0) | 750 (11.0) |
| Feb | 2804 | | 2687 (95.8) | 90 (3.2) | 28 (1.0) | 2944 | | 2821 (95.8) | 95 (3.2) | 29 (1.0) |
| Mar | 2395 | 144 (6.0) | 2235 (93.3) | 11 (.5) | 5 (.2) | 2790 | 169 (6.0) | 2604 (93.3) | 13 (.5) | 6 (.2) |
| Apr | 9810 | 8592 (87.6) | 683 (7.0) | 100 (1.0) | 435 (4.4) | 11822 | 10353 (87.6) | 823 (7.0) | 121 (1.0) | 524 (4.4) |
| May | 3565 | 1584 (44.4) | 1312 (36.8) | 479 (13.4) | 190 (5.3) | 5052 | 2245 (44.4) | 1860 (36.8) | 678 (13.4) | 269 (5.3) |
| June | 13239 | 96 (.7) | 3953 (29.9) | 8273 (62.5) | 918 (6.9) | 13364 | 97 (.7) | 3989 (29.9) | 8351 (62.5) | 926 (6.9) |
| July | 14216 | 96 (.7) | 13627 (95.9) | | 493 (3.5) | 1920 | 130 (.7) | 18424 (95.9) | | 666 (3.5) |
| Aug | 28745 | 8256 (28.7) | 19217 (66.9) | 72 (.3) | 1200 (4.2) | 41306 | 11864 (28.7) | 27614 (66.9) | 104 (.3) | 1724 (4.2) |
| Sept | 12468 | 2304 (18.5) | 9965 (79.9) | 153 (1.2) | 45 (.4) | 20123 | 3719 (18.5) | 16084 (79.9) | 247 (1.2) | 73 (.4) |
| Total | 107661 | 28391 (26.4) | 63197 (58.7) | 9413 (8.7) | 6660 (6.2) | 137039 | 35894 (26.2) | 83737 (61.1) | 9843 (7.2) | 7565 (5.5) |

Table 33 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 |
| 1983 | | | | | | | | | | |
| Oct | 22074 | 18647 (84.5) | 2735 (12.4) | 4 | 688 (3.1) | 21432 | 18104 (84.5) | 2656 (12.4) | 4 | 668 (3.1) |
| Nov | 8907 | 7359 (82.6) | 719 (8.1) | 28 (.3) | 801 (9.0) | 8819 | 7286 (82.6) | 712 (8.1) | 28 (.3) | 793 (9.0) |
| Dec | 8001 | 7344 (91.8) | | 5 (.1) | 652 (8.1) | 8001 | 7344 (91.8) | | 5 (.1) | 652 (8.1) |
| 1984 | | | | | | | | | | |
| Jan | 9509 | 9264 (97.4) | 243 (2.6) | 2 | | 9509 | 9264 (97.4) | 243 (2.6) | 2 | |
| Feb | 17573 | 17154 (97.6) | 420 (2.4) | | | 16768 | 16368 (97.6) | 400 (2.4) | | |
| Mar | 23765 | 23260 (97.9) | 487 (2.0) | 8 | 10 | 23577 | 23076 (97.9) | 483 (2.0) | 8 | 10 |
| Apr | 18676 | 16224 (86.9) | 1953 (10.5) | 44 (.2) | 455 (2.4) | 18510 | 16080 (86.9) | 1935 (10.5) | 44 (.2) | 451 (2.4) |
| May | 4969 | 1957 (39.4) | 1201 (24.2) | 1260 (25.4) | 551 (11.1) | 4929 | 1942 (39.4) | 1191 (24.2) | 1250 (25.4) | 546 (11.1) |
| June | 2994 | 976 (32.6) | 767 (25.6) | 489 (16.3) | 762 (25.4) | 2945 | 960 (32.6) | 755 (25.6) | 481 (16.3) | 749 (25.4) |
| July | 29485 | 8378 (28.4) | 17965 (60.9) | | 3142 (10.7) | 29223 | 8304 (28.4) | 17805 (60.9) | | 3114 (10.7) |
| Aug | 14869 | 5510 (37.1) | 7824 (52.6) | | 1534 (10.3) | 14506 | 5376 (37.1) | 7633 (52.6) | | 1497 (10.3) |
| Sept | 25918 | 22221 (85.7) | 2786 (10.8) | 90 (.3) | 821 (3.2) | 23079 | 19778 (85.7) | 2489 (10.8) | 80 (.3) | 732 (3.2) |
| Total | 186740 | 138295 (74.1) | 37099 (19.9) | 1930 (1.0) | 9415 (5.0) | 181298 | 133882 (73.9) | 36302 (20.0) | 1902 (1.0) | 9212 (5.1) |

Table 33 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 |
| 1983 | | | | | | | | | | |
| Oct | 3178 | 2592 (81.6) | 456 (14.3) | | 130 (4.1) | 6197 | 5054 (81.6) | 889 (14.3) | | 254 (4.1) |
| Nov | 6274 | 4796 (76.4) | 384 (6.1) | 2 (.1) | 1092 (17.4) | 7216 | 5516 (76.4) | 442 (6.1) | 2 | 1256 (17.4) |
| Dec | 9073 | 7868 (86.7) | | | 1205 (13.3) | 9254 | 8026 (86.7) | | | 1229 (13.3) |
| 1984 | | | | | | | | | | |
| Jan | 5371 | 4608 (85.8) | 43 (.8) | | 720 (13.4) | 6209 | 5327 (85.8) | 50 (.8) | | 832 (13.4) |
| Feb | 10322 | 10095 (97.8) | | 4 | 223 (2.2) | 12211 | 11942 (97.8) | | 5 | 264 (2.2) |
| Mar | 8782 | 8271 (94.2) | 283 (3.2) | 2 | 228 (2.6) | 8958 | 8436 (94.2) | 288 (3.2) | 2 | 232 (2.6) |
| Apr | 9933 | 8832 (88.9) | 636 (6.4) | 58 (.6) | 407 (4.1) | 10578 | 9406 (88.9) | 677 (6.4) | 62 (.6) | 433 (4.1) |
| May | 7438 | 5954 (80.1) | 683 (9.2) | 324 (4.4) | 476 (6.4) | 10554 | 8449 (80.1) | 969 (9.2) | 460 (4.4) | 676 (6.4) |
| June | 7266 | 1167 (16.1) | 2947 (40.6) | 999 (13.7) | 2153 (29.6) | 7266 | 1167 (16.1) | 2947 (40.6) | 999 (13.7) | 2153 (29.6) |
| July | 9382 | 2304 (24.6) | 5732 (61.1) | 15 (.2) | 1332 (14.2) | 12910 | 3170 (24.6) | 7887 (61.1) | 21 (.2) | 1833 (14.2) |
| Aug | 31384 | 2640 (8.4) | 24135 (76.9) | 49 (.2) | 4560 (14.5) | 31384 | 2640 (8.4) | 24135 (76.9) | 49 (.2) | 4560 (14.5) |
| Sept | 6889 | 4135 (60.0) | 2578 (37.4) | 70 (1.0) | 105 (1.5) | 7329 | 4400 (60.0) | 2743 (37.4) | 74 (1.0) | 112 (1.5) |
| Total | 115292 | 63262 (54.9) | 37877 (32.9) | 1552 (1.3) | 12630 (11.0) | 130066 | 73533 (56.5) | 41028 (31.5) | 1673 (1.3) | 13833 (10.6) |

Table 33 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 |
| <u>1983</u> | | | | | | | | | | |
| Oct | 3623 | 2640 (72.9) | 813 (22.4) | | 170 (4.7) | 6261 | 4562 (72.9) | 1406 (22.4) | | 294 (4.7) |
| Nov | 3334 | 2201 (66.0) | 143 (4.3) | | 990 (29.7) | 4751 | 3136 (66.0) | 204 (4.3) | | 1411 (29.7) |
| Dec | 886 | 831 (93.8) | | | 55 (6.2) | 2096 | 1966 (93.8) | | | 130 (6.2) |
| <u>1984</u> | | | | | | | | | | |
| Jan | 1224 | 1152 (94.2) | 72 (5.8) | | | 2035 | 1916 (94.2) | 119 (5.8) | | |
| Feb | 3164 | 3091 (97.7) | 72 (2.3) | 1 | | 6471 | 6322 (97.7) | 146 (2.3) | 3 | |
| Mar | 3926 | 3855 (98.2) | 72 (1.8) | | | 6922 | 6796 (98.2) | 126 (1.8) | | |
| Apr | 2818 | 2688 (95.4) | 129 (4.6) | 1 | | 4968 | 4739 (95.4) | 227 (4.6) | 2 | |
| May | 4139 | 3792 (91.6) | 200 (4.8) | 16 (.4) | 131 (3.2) | 5612 | 5142 (91.6) | 272 (4.8) | 22 (.4) | 177 (3.2) |
| June | 6885 | 4176 (60.7) | 1387 (20.1) | 15 (.2) | 1308 (19.0) | 8620 | 5228 (60.7) | 1737 (20.1) | 18 (.2) | 1637 (19.0) |
| July | 8077 | 1920 (23.8) | 5790 (71.7) | | 368 (4.5) | 14539 | 3456 (23.8) | 10421 (71.7) | | 662 (4.5) |
| Aug | 23097 | 10224 (44.3) | 11919 (51.6) | 2 | 953 (4.1) | 31226 | 13313 (42.6) | 16679 (53.4) | 3 | 1233 (3.9) |
| Sept | 9222 | 4512 (48.9) | 4679 (50.7) | 16 (.2) | 15 (.2) | 142941 | 6994 (48.9) | 7253 (50.7) | 24 (.2) | 23 (.2) |
| Total | 70395 | 41082 (58.4) | 25275 (35.9) | 51 (.1) | 3988 (5.7) | 107794 | 63569 (59.0) | 38588 (35.8) | 72 (.1) | 5567 (5.2) |

Table 33 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 |
| <u>1983</u> | | | | | | | | | | |
| Nov | 4402 ¹ | 4202 (95.4) | 43 (1.0) | | 158 (3.6) | 4402 ¹ | 4202 (95.4) | 43 (1.0) | | 158 (3.6) |
| Dec | 1371 | 1296 (94.5) | | | 75 (5.5) | 1371 | 1296 (94.5) | | | 75 (5.5) |
| <u>1984</u> | | | | | | | | | | |
| Jan | 1631 | 1536 (94.2) | 43 (2.6) | | 52 (3.2) | 3136 | 2954 (94.2) | 83 (2.6) | | 99 (3.2) |
| Feb | 3849 | 3744 (97.3) | 72 (1.9) | | 34 (.9) | 3907 | 3800 (97.3) | 73 (1.9) | | 34 (.9) |
| Mar | 6687 | 6414 (95.9) | 57 (.9) | | 216 (3.2) | 6794 | 6516 (95.9) | 58 (.9) | | 220 (3.2) |
| Apr | 3005 | 2592 (86.3) | 170 (5.7) | 2 (.1) | 241 (8.0) | 3005 | 2592 (86.3) | 170 (5.7) | 2 (.1) | 241 (8.0) |
| May | 2356 | 1551 (65.8) | 272 (11.5) | 358 (15.2) | 175 (7.4) | 2665 | 1754 (65.8) | 307 (11.5) | 405 (15.2) | 198 (7.4) |
| June | 2188 | 912 (41.7) | 778 (35.6) | 319 (14.6) | 179 (8.2) | 3216 | 1341 (41.7) | 1144 (35.6) | 469 (14.6) | 263 (8.2) |
| July | 1051 | 384 (36.6) | 184 (17.5) | 40 (3.8) | 443 (42.1) | 1552 | 567 (36.6) | 272 (17.5) | 59 (3.8) | 654 (42.1) |
| Aug | 7856 | 581 (7.4) | 6471 (82.4) | | 805 (10.2) | 11391 | 842 (7.4) | 9382 (82.4) | | 1167 (10.2) |
| Sept | 4195 | 1548 (36.9) | 2593 (61.8) | 6 (.2) | 48 (1.1) | 4501 | 1661 (36.9) | 2783 (61.8) | 7 (.2) | 51 (1.1) |
| Total | 38590 | 24759 (64.2) | 10682 (27.7) | 726 (1.9) | 2424 (6.3) | 45940 | 27524 (59.9) | 14314 (31.2) | 943 (2.1) | 3159 (6.9) |

Table 34. Prices of commodities sold in each Keewatin community compared to country foods sold in Frobisher Bay (new name Iqaluit). Prices were taken January 1985.

| Community | Retail Price Per Kilogram in \$ | | | | | | |
|--------------------|---------------------------------|-------------|---------|----------------------|--------|---------|------|
| | Pork Chops | Round Steak | Chicken | Charr | Muktah | Caribou | Seal |
| Baker Lake | 6.78 | 12.10 | 6.44 | | | | |
| Chesterfield Inlet | 7.04 | 12.36 | 6.70 | | | | |
| Coral Harbour | 7.94 | 13.26 | 7.60 | | | | |
| Eskimo Point | 6.49 | 11.81 | 6.15 | 4.50(w) ¹ | | | |
| Rankin Inlet | 6.63 | 11.95 | 6.29 | 9.65(f) ¹ | | | |
| Repulse Bay | 8.02 | 13.34 | 7.68 | 3.30(w) | | | |
| Whale Cove | 9.91 | 10.57 | 6.28 | | | | |
| Frobisher Bay | | | | 6.61(cw) | 7.17 | 9.92 | 5.51 |

¹_w = whole fish
¹_f = fillets

Table 35. The harvest of caribou in the Keewatin region for the period October 1983 to September 1984.

| Community | Reported Harvest | Male | Female | Calves | Unknown | \bar{x} Theoretical Kill Factor | Estimated Harvest | Male | Female | Calves | Unknown | Reported Kill/ Hunter \pm S.D. |
|---------------------------|---------------------|------|--------|--------|---------|--------------------------------------|----------------------|------|--------|--------|---------|---|
| <u>Baker Lake</u> | | | | | | | | | | | | |
| Kaminuriak | 760 | 511 | 236 | | 13 | | 763 | 512 | 238 | | 13 | 2 \pm 1 |
| Beverly | 3584 | 2003 | 1560 | | 21 | | 3619 | 2017 | 1580 | | 22 | 3 \pm 2 |
| Wager | 1882 | 1216 | 596 | | 70 | | 1925 | 1248 | 604 | | 73 | 3 \pm 1 |
| Other | 125 | 63 | 58 | | 4 | | 125 | 63 | 58 | | 4 | 3 \pm 1 |
| Total | 6351 | 3793 | 2450 | | 108 | 1.01 | 6432 | 3840 | 2480 | | 112 | 3 \pm 2 |
| <u>Chesterfield Inlet</u> | | | | | | | | | | | | |
| Kaminuriak | 83 | 54 | 27 | | 2 | | 99 | 66 | 31 | | 2 | 2 \pm 1 |
| N. of Chesterfield | 252 | 177 | 65 | | 10 | | 275 | 192 | 71 | | 12 | 2 \pm 2 |
| Other | 6 | 5 | | | 1 | | 8 | 7 | | | 1 | 2 \pm 1 |
| Total | 341 | 236 | 92 | | 13 | 1.11 | 382 | 265 | 102 | | 15 | 2 \pm 2 |
| <u>Coral Harbour</u> | | | | | | | | | | | | |
| Kaminuriak | 3 | | | | 3 | | 4 | | | | 4 | 3 \pm 0 |
| Wager | 169 | 56 | 67 | | 46 | | 205 | 69 | 81 | | 55 | 4 \pm 4 |
| Coates | 36 | 16 | 9 | | 11 | | 36 | 16 | 9 | | 11 | 6 \pm 3 |
| Southampton | 271 | 121 | 94 | | 56 | | 391 | 174 | 136 | | 81 | 3 \pm 3 |
| Total | 479 | 193 | 170 | | 116 | (1.28) | 636 | 259 | 226 | | 151 | 4 \pm 4 |
| <u>Eskimo Point</u> | | | | | | | | | | | | |
| Kaminuriak | 2459 | 768 | 1568 | 74 | 174 | 1.02 | 2708 | 909 | 1603 | 89 | 179 | 3 \pm 2 |
| <u>Rankin Inlet</u> | | | | | | | | | | | | |
| Kaminuriak | 1204 | 736 | 368 | 8 | 92 | | 1409 | 870 | 427 | 9 | 103 | 4 \pm 4 |
| N. of Chesterfield | 84 | 41 | 36 | | 7 | | 93 | 45 | 41 | | 7 | 3 \pm 2 |
| Total | 1288 | 777 | 404 | 8 | 99 | 1.20 | 1502 | 915 | 468 | 9 | 110 | 4 \pm 4 |
| <u>Repulse Bay</u> | | | | | | | | | | | | |
| Kaminuriak | 30 | 25 | 4 | | 1 | | 41 | 34 | 6 | | 1 | 2 \pm 1 |
| Wager Bay | 773 | 461 | 208 | 5 | 99 | | 1207 | 699 | 335 | 7 | 166 | 2 \pm 2 |
| N. of Chesterfield | 17 | 17 | | | | | 23 | 23 | | | | 2 \pm 1 |
| Other | 6 | 5 | | | 1 | | 8 | 7 | | | 1 | 2 \pm 1 |
| Total | 826 | 508 | 212 | 5 | 101 | 1.70 | 1279 | 763 | 341 | 7 | 168 | 2 \pm 2 |

Table 35 Cont'd.

| Community | Reported Harvest | Male | Female | Calves | Unknown | \bar{x} Theoretical Kill Factor | Estimated Harvest | Male | Female | Calves | Unknown | Reported Kill/ Hunter \pm S.D. |
|------------------------|---------------------|------|--------|--------|---------|--------------------------------------|----------------------|------|--------|--------|---------|---|
| <u>Whale Cove</u> | | | | | | | | | | | | |
| Kaminuriak | 489 | 249 | 231 | | 9 | (1.28) | 545 | 294 | 242 | | 9 | 3 \pm 2 |
| <u>All Communities</u> | | | | | | | | | | | | |
| Kaminuriak | 5272 | 2452 | 2434 | 92 | 294 | | 5641 | 2685 | 2547 | 98 | 311 | |
| Beverly | 3584 | 2003 | 1560 | | 21 | | 3619 | 2017 | 1580 | | 22 | |
| N. of Chesterfield | 353 | 235 | 101 | | 17 | | 391 | 260 | 112 | | 19 | |
| Wager Bay | 2824 | 1733 | 877 | 5 | 215 | | 3337 | 2016 | 1020 | 7 | 294 | |
| Coates | 36 | 16 | 9 | | 11 | | 36 | 16 | 9 | | 11 | |
| Southampton | 271 | 121 | 94 | | 56 | | 391 | 174 | 136 | | 81 | |
| Other | 137 | 73 | 58 | | 6 | | 141 | 77 | 58 | | 6 | |
| Sum. | 12477 | 6633 | 5127 | 97 | 620 | | 13556 | 7245 | 5462 | 105 | 744 | |

Table 36. Age distribution of hunters for the seven Keewatin region communities for the period October 1983 to September 1984.

| Community | Percentage of Hunters Per Age Category | | | | | | Total Known Hunters |
|---|--|-------|-------|-------|-------|------------------|---------------------|
| | 0-15 | 16-30 | 31-45 | 46-60 | 61-75 | 76+ ¹ | |
| Baker Lake | 3.1 | 38.0 | 30.2 | 18.2 | 7.1 | 3.4 | 324 |
| Chesterfield Inlet | 1.1 | 48.9 | 23.9 | 17.0 | 5.7 | 3.4 | 88 |
| Coral Harbour | 4.1 | 39.1 | 23.7 | 12.4 | 7.7 | 13.0 | 169 |
| Eskimo Point | 2.0 | 43.0 | 31.7 | 18.4 | 4.1 | .7 | 293 |
| Rankin Inlet | .6 | 30.6 | 24.9 | 12.3 | 4.3 | 27.4 | 350 |
| Repulse Bay | 1.5 | 38.6 | 26.5 | 13.6 | 3.0 | 16.7 | 132 |
| Whale Cove | .9 | 30.7 | 19.3 | 13.2 | 8.8 | 27.2 | 114 |
| Total hunters for the Keewatin District | 2.0 | 37.5 | 26.9 | 15.3 | 5.6 | 12.7 | 1470 |

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

B. GRIDS

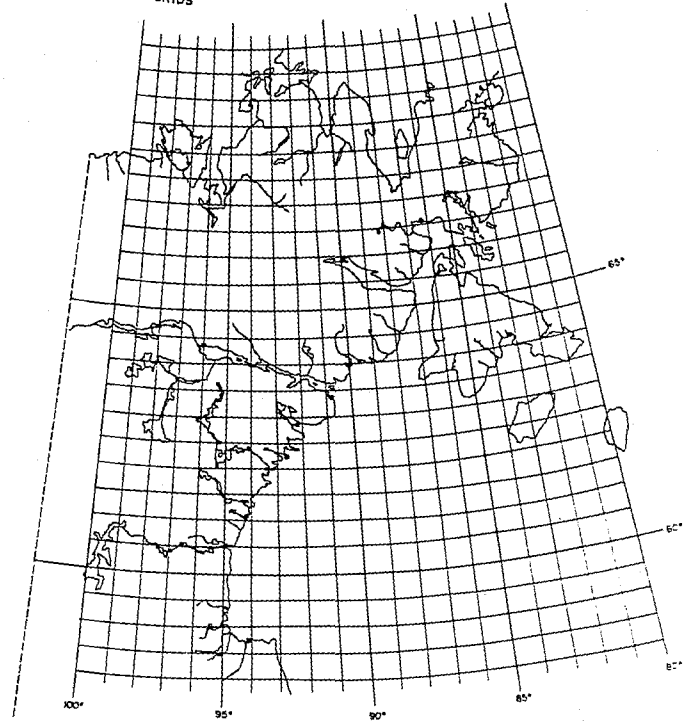
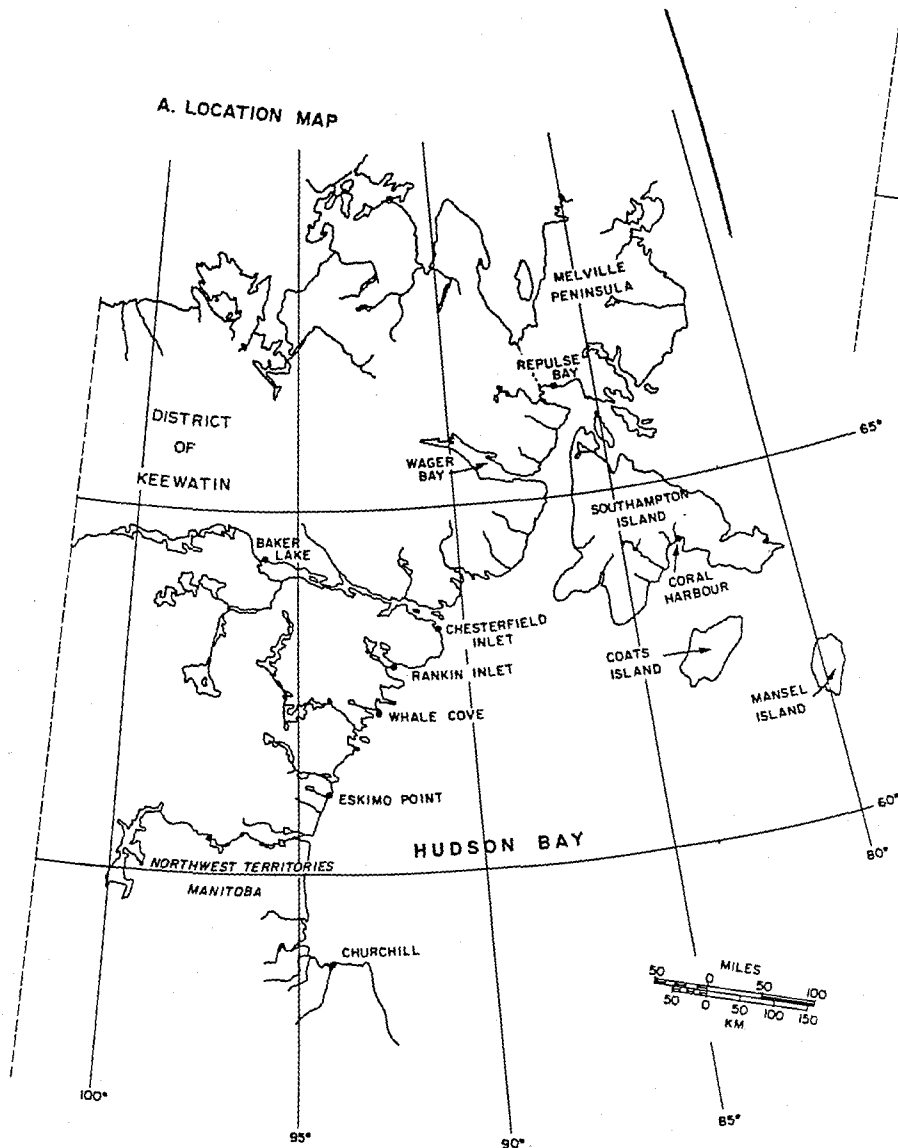


Fig. 1. Map of Keewatin District showing the seven communities surveyed during the harvest study and the zonal grid used to locate kills.

**Keewatin
Wildlife Federation
1984
Wildlife Harvest
Study**

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|-----------------------------------|--|------------------|-----------|----------------|
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| ᑭᑦᑭᑦ, ᑭᑦᑭᑦ caribou, Kaminuriak | | | | |
| ᑭᑦᑭᑦ Beverly | | | | |
| ᑭᑦᑭᑦ, ᑭᑦᑭᑦ Wager | | | | |
| ᑭᑦᑭᑦ other | | | | |
| ᑭᑦᑭᑦ polar bear | | | | |
| ᑭᑦᑭᑦ grizzly | | | | |
| ᑭᑦᑭᑦ muskox | | | | |
| ᑭᑦᑭᑦ moose | | | | |
| ᑭᑦᑭᑦ otter | | | | |
| ᑭᑦᑭᑦ wolverine | | | | |
| ᑭᑦᑭᑦ lynx | | | | |
| ᑭᑦᑭᑦ arctic hare | | | | |
| ᑭᑦᑭᑦ, ᑭᑦᑭᑦ fox, arctic | | | | |
| ᑭᑦᑭᑦ red | | | | |
| ᑭᑦᑭᑦ other | | | | |
| ᑭᑦᑭᑦ wolf | | | | |
| ᑭᑦᑭᑦ ringed seal | | | | |
| ᑭᑦᑭᑦ bearded seal | | | | |
| ᑭᑦᑭᑦ harp seal | | | | |
| ᑭᑦᑭᑦ harbour seal | | | | |
| ᑭᑦᑭᑦ walrus | | | | |
| ᑭᑦᑭᑦ narwhal | | | | |
| ᑭᑦᑭᑦ, ᑭᑦᑭᑦ beluga | | | | |
| ᑭᑦᑭᑦ bowhead | | | | |
| other mammals | | | | |

[illegible]

Fig. 2. Example of the field diary in Inuktitut and English provided to hunters for the calendar year 1984.

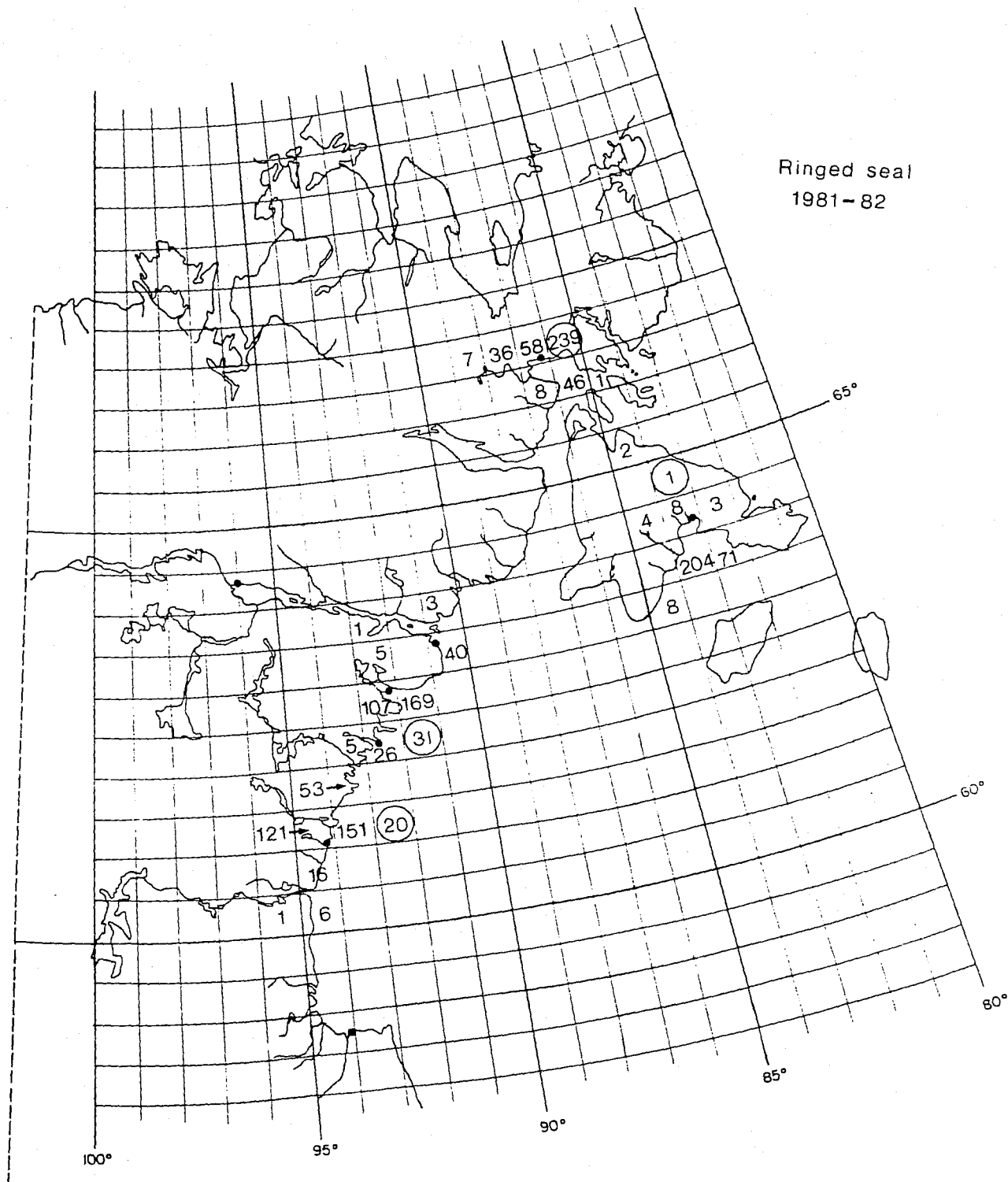


Fig. 3. Zone map for the harvest years, October 1981 through to September 1984, showing the harvest of ringed seal by area in the Keewatin District. Numbers enclosed by a circle were not identified by zone but were reported in the community harvest.

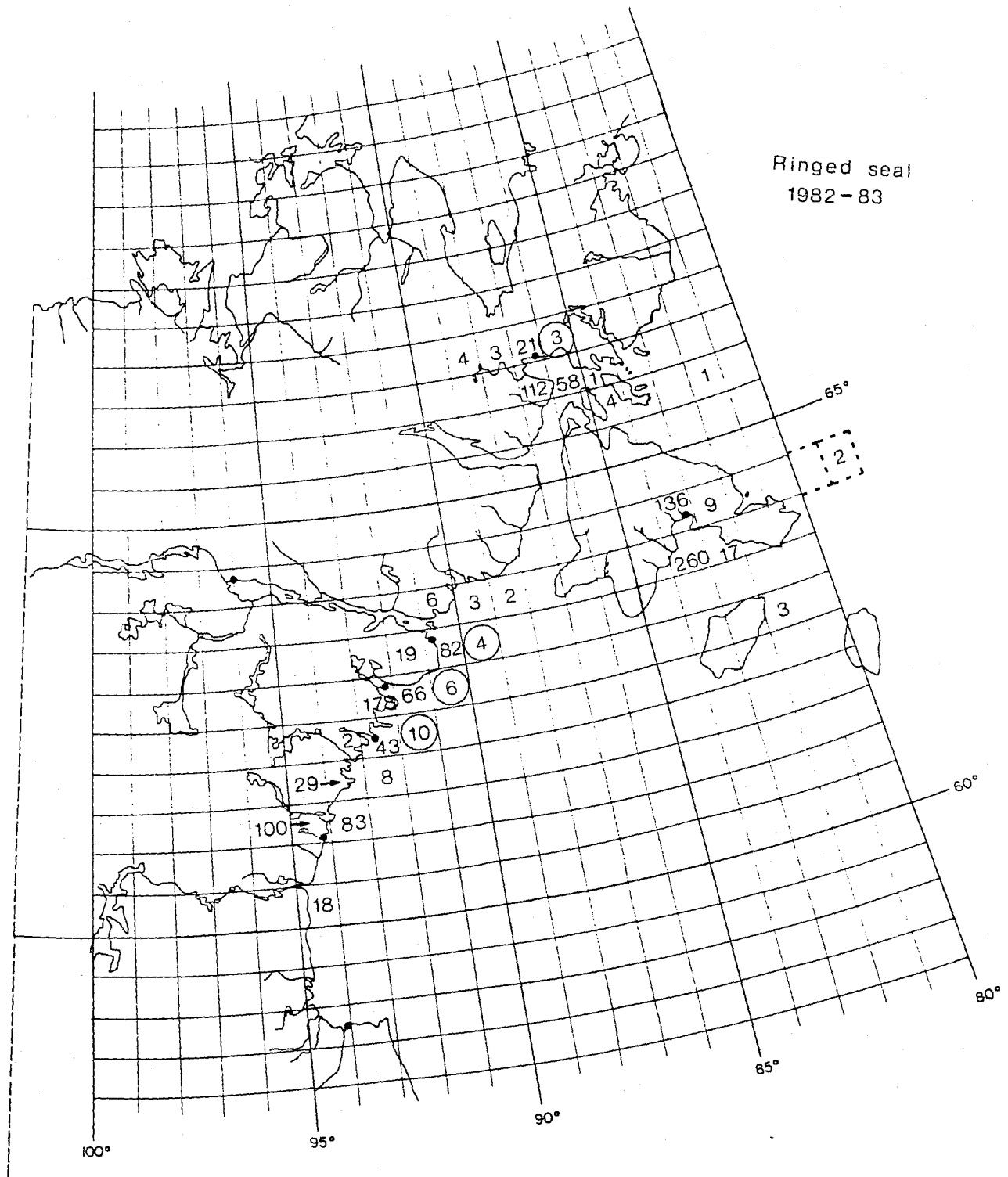


Fig. 3. Cont'd

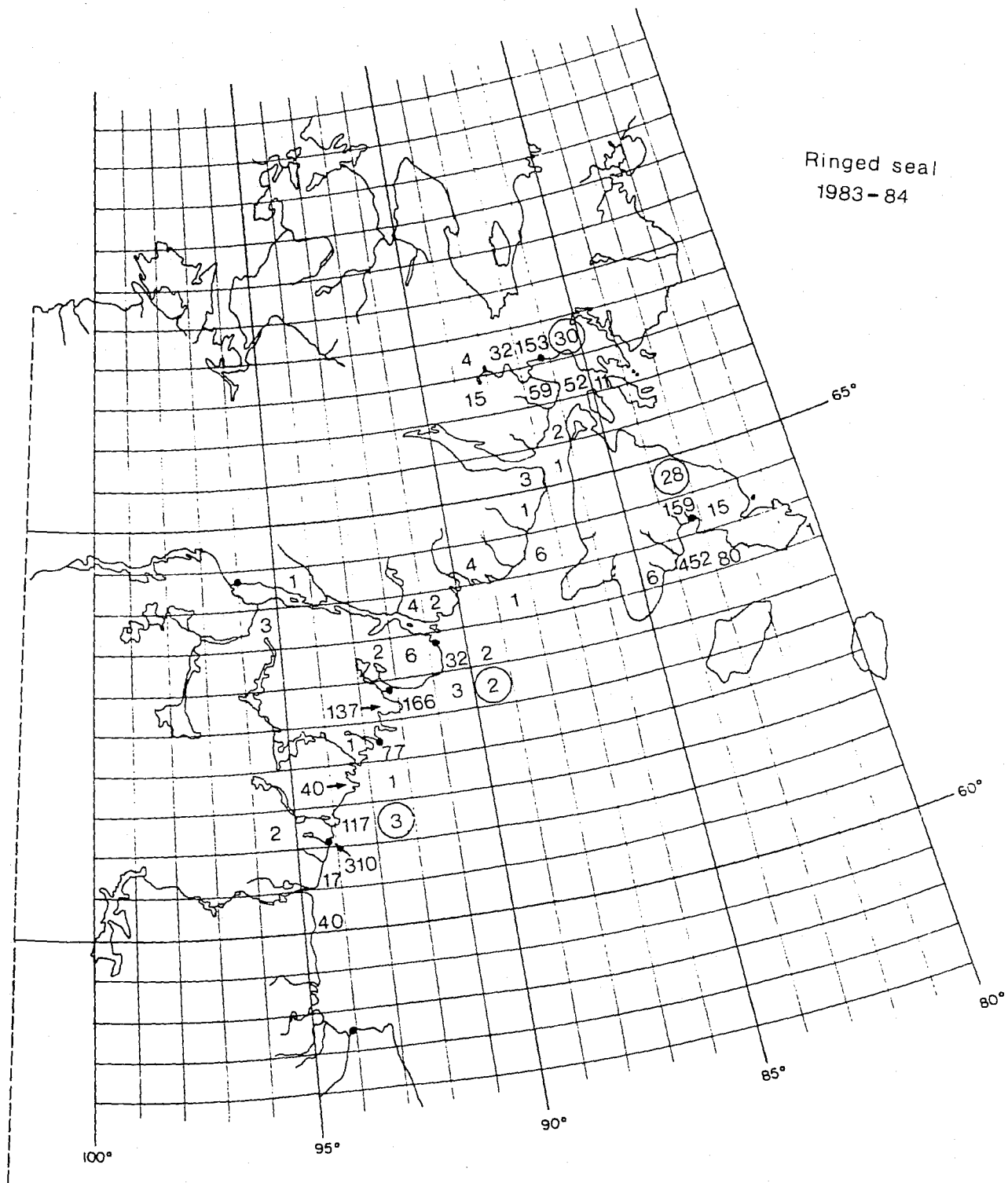


Fig. 3. Cont'd

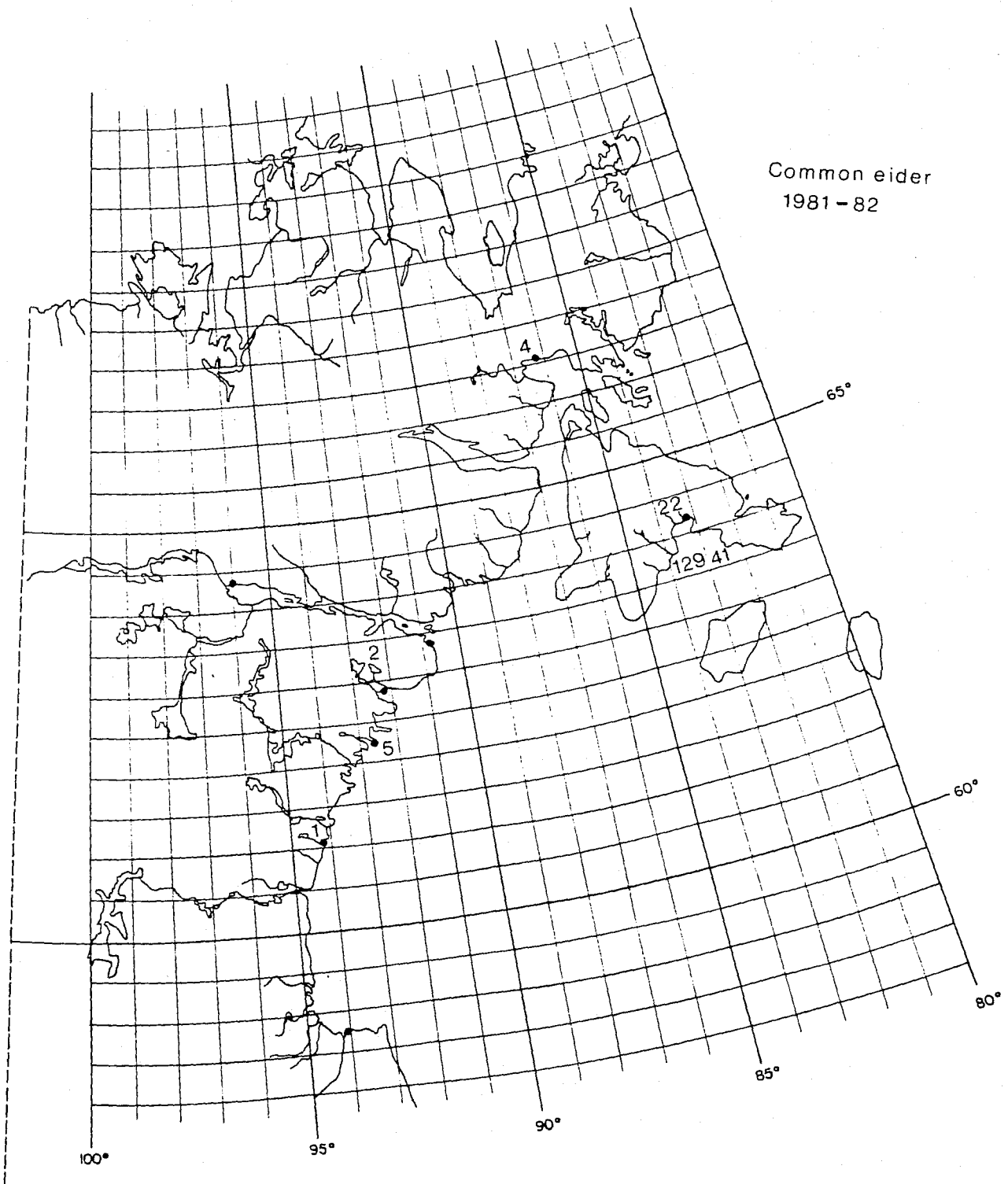


Fig. 4. Zone map for the harvest years, October 1981 through to September 1984, showing the harvest of common eider by area in the Keewatin District. Numbers enclosed by a circle were not identified by zone but were reported in the community harvest.

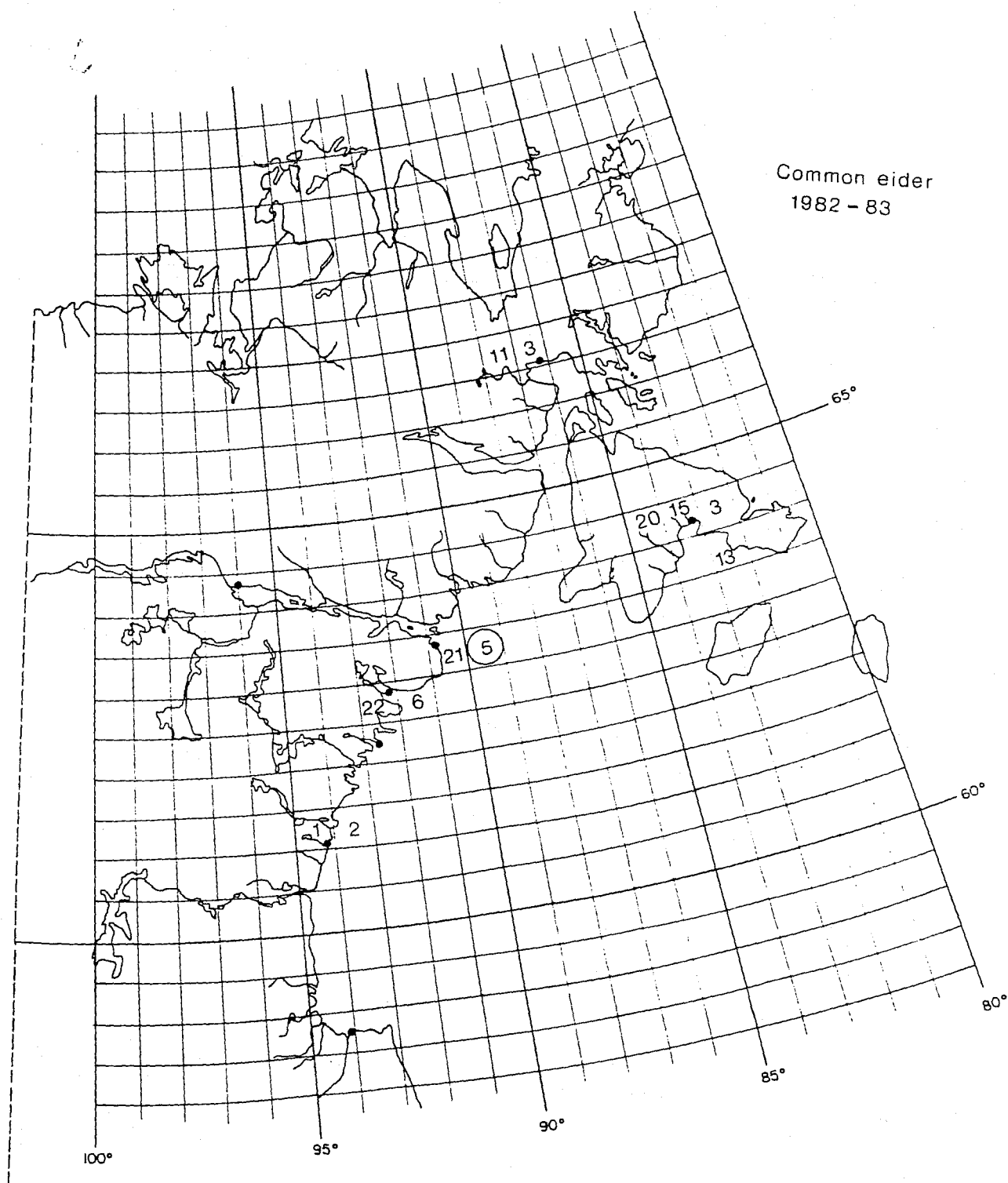


Fig. 4. Cont'd

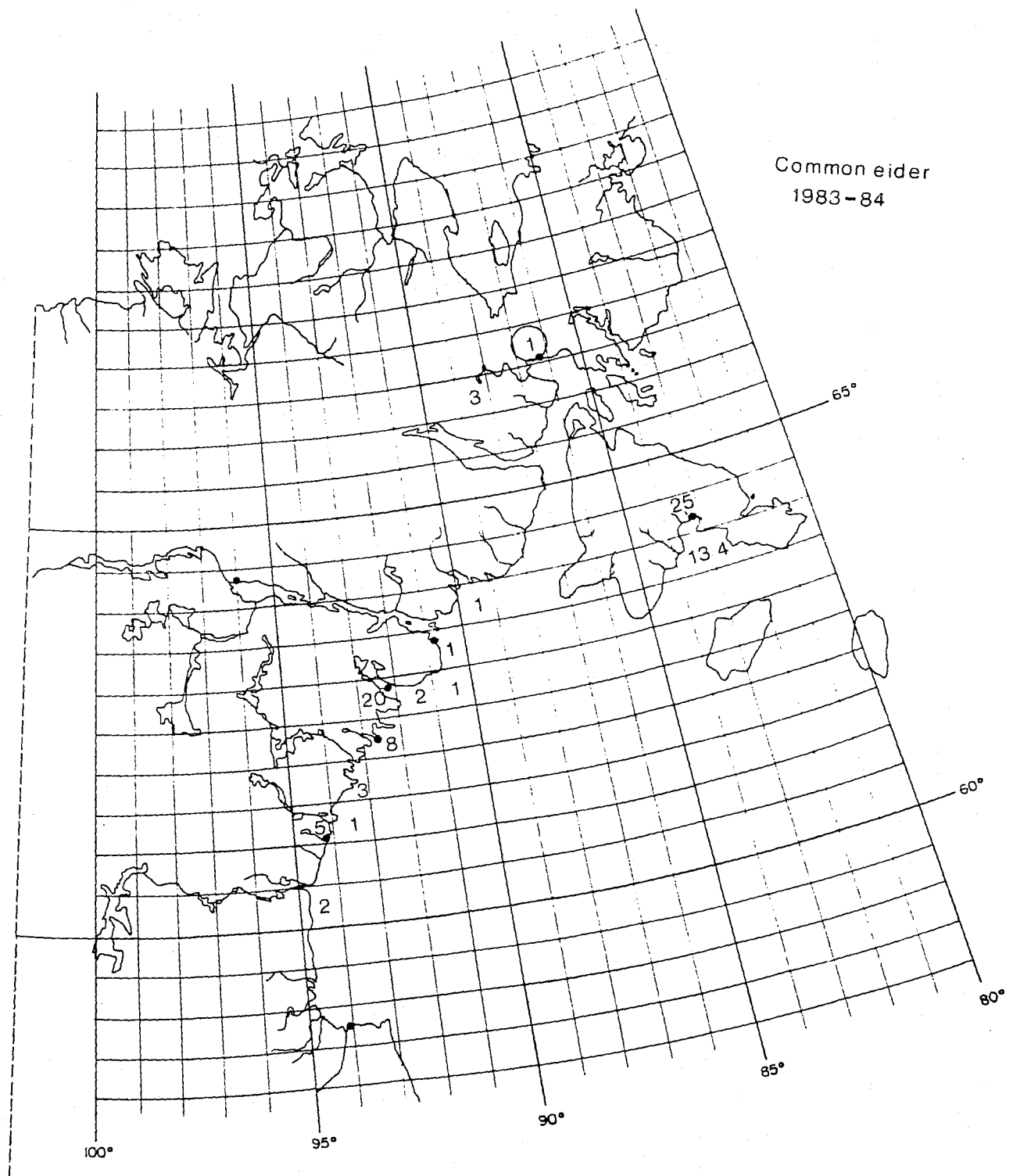
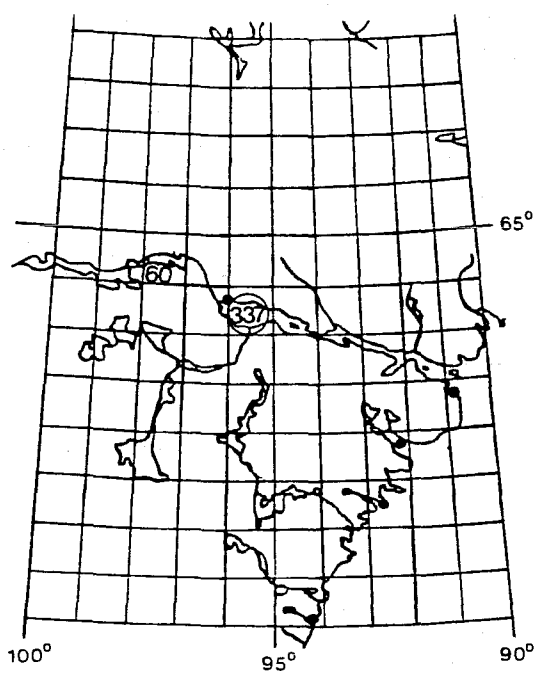
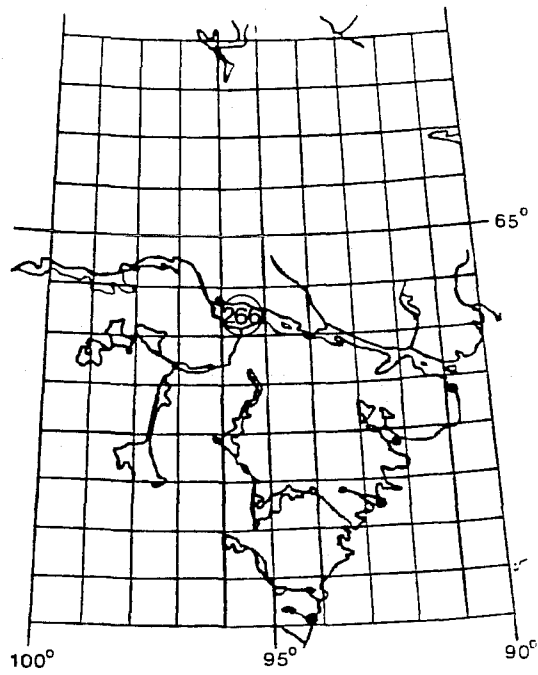


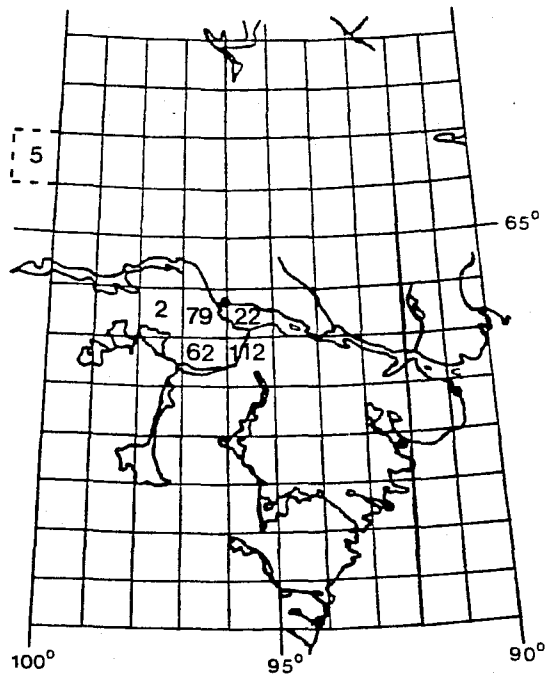
Fig. 4. Cont'd



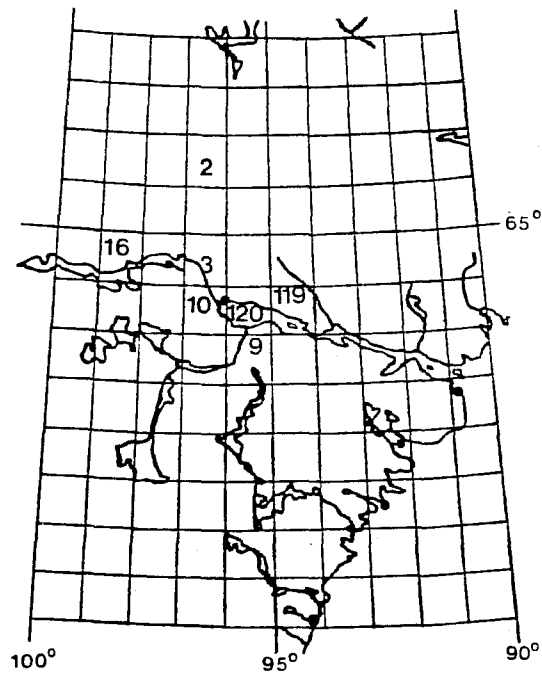
November 1981



December 1981

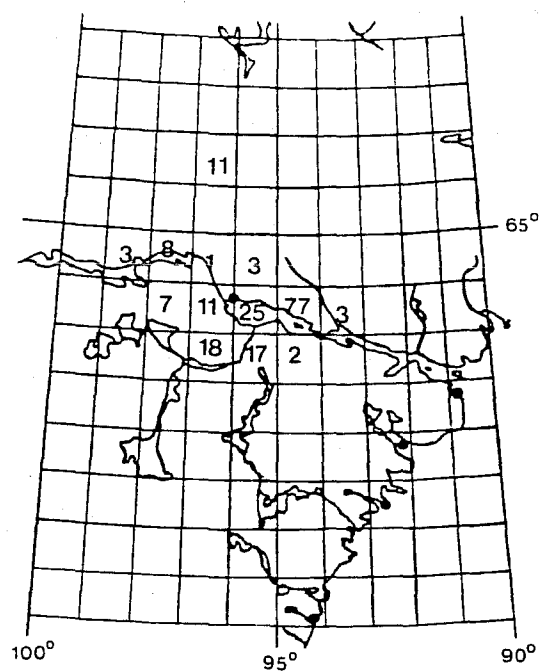


January 1982

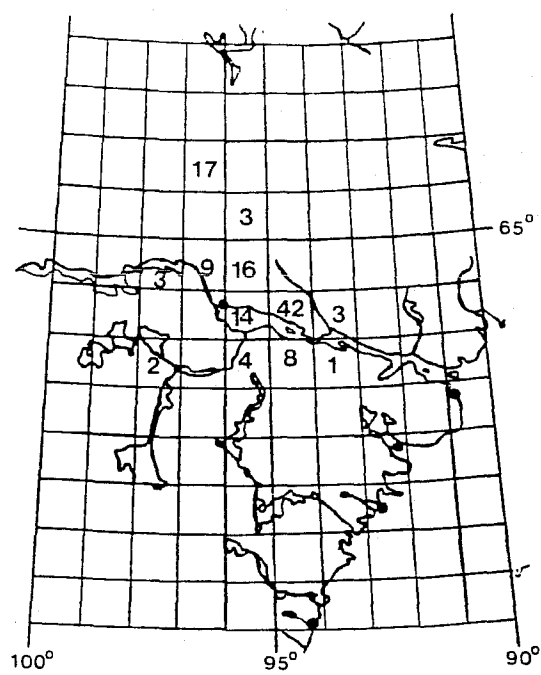


February 1982

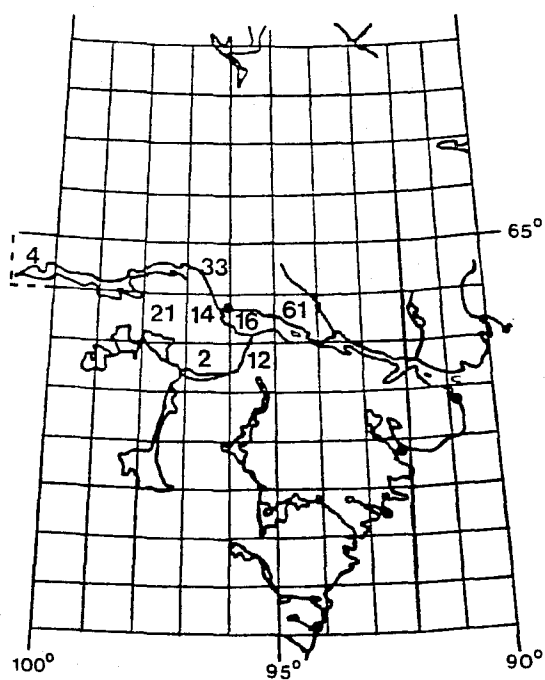
Fig. 5. Zone maps showing the monthly harvest of caribou by area for Baker Lake for the period November 1981 to September 1984. Data for August and September 1982 are not available. Numbers enclosed by a circle were not identified by zone but were reported in the community harvest.



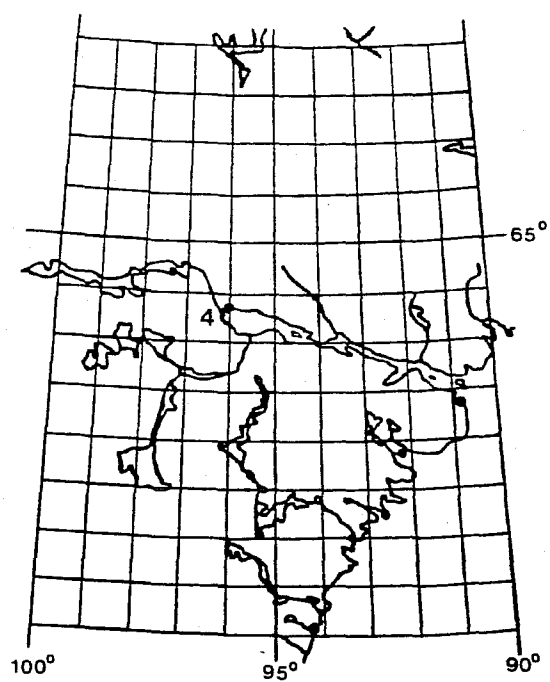
March 1982



April 1982

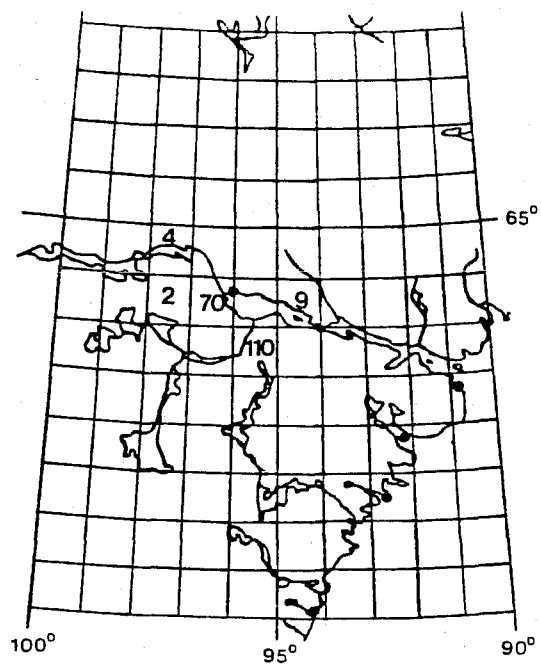


May 1982

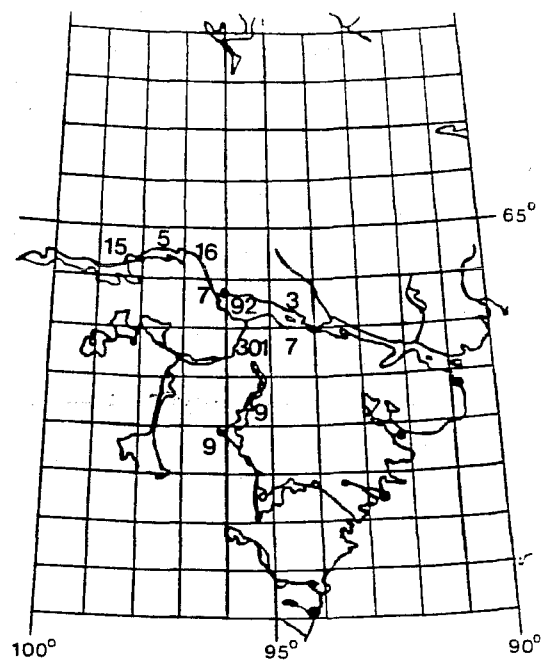


June 1982

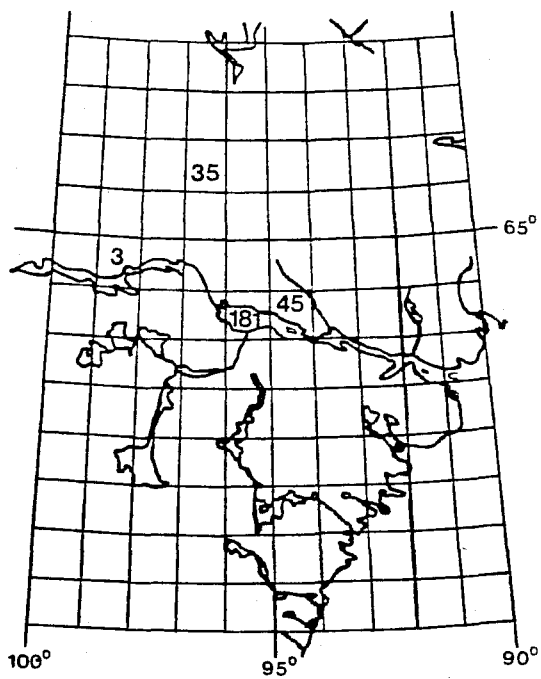
Fig. 5. Cont'd



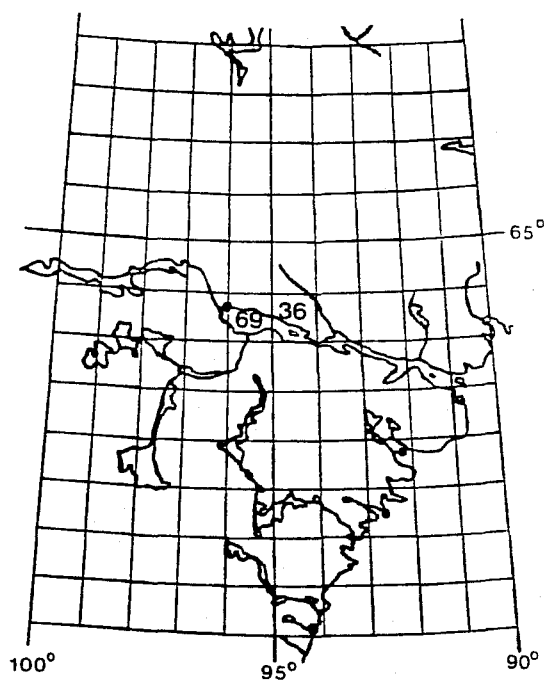
July 1982



September 1982

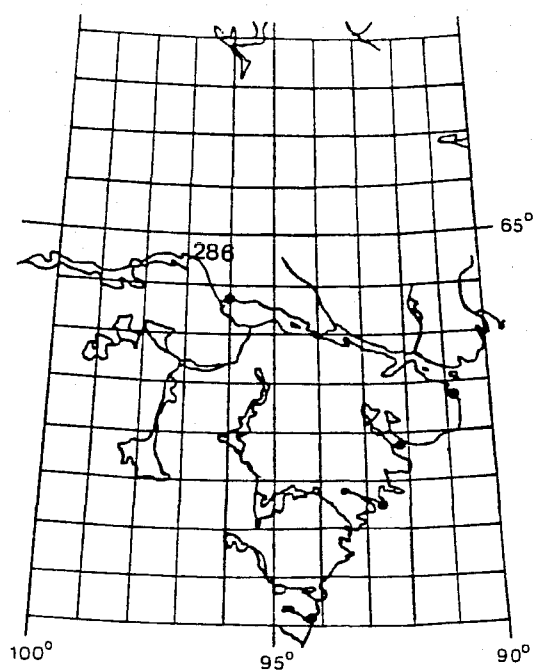


November 1982

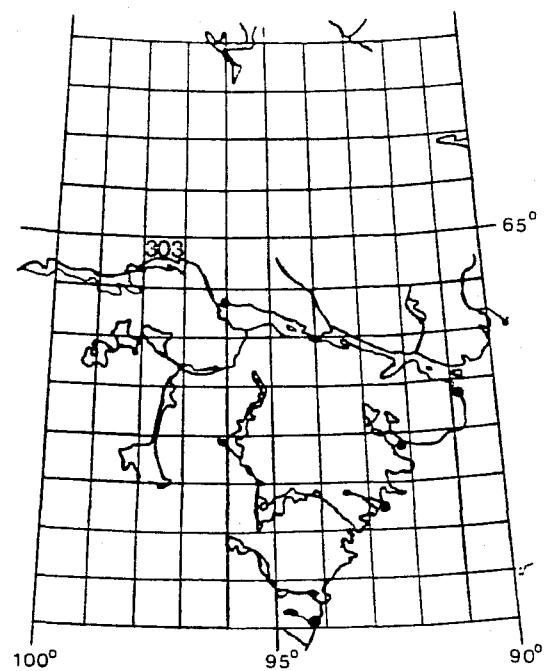


December 1982

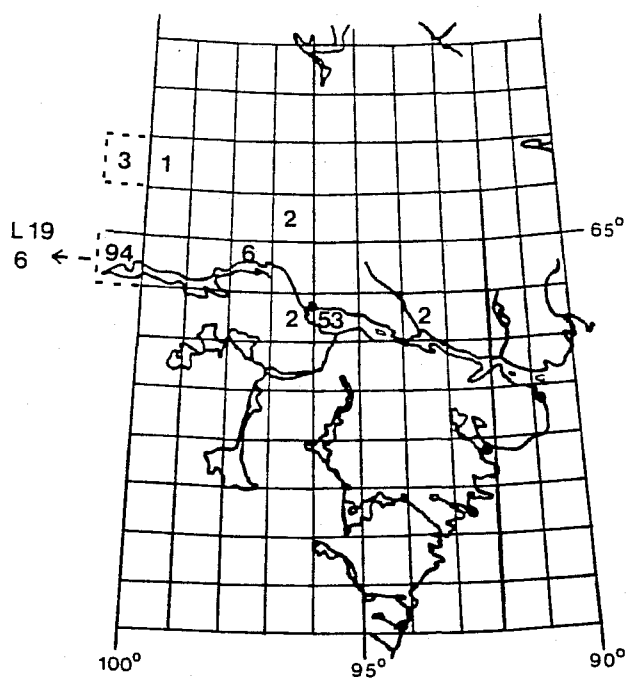
Fig. 5. Cont'd



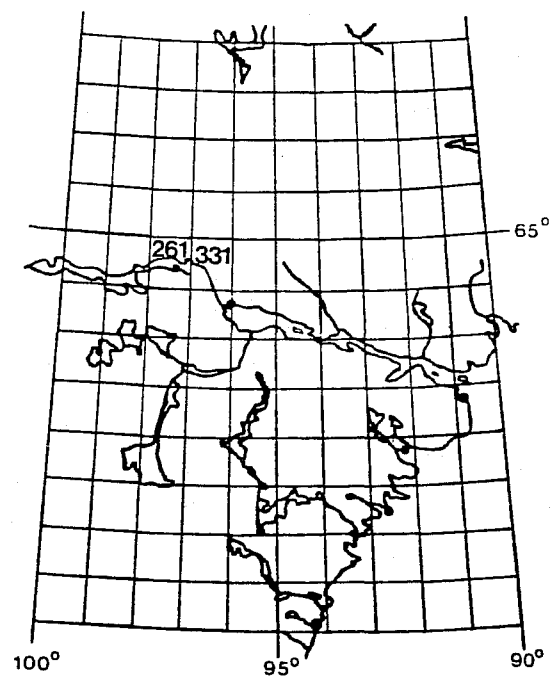
January 1983



February 1983

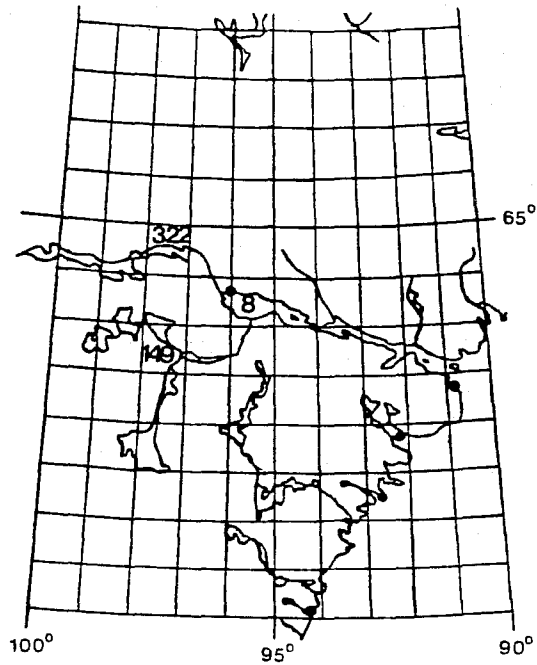


March 1983

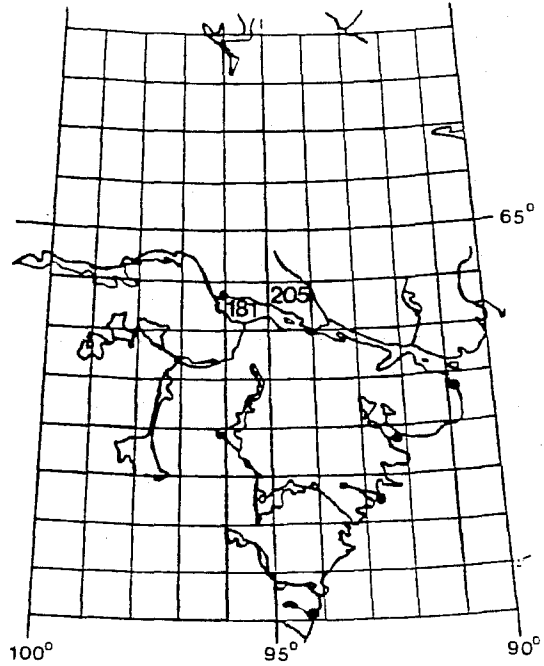


April 1983

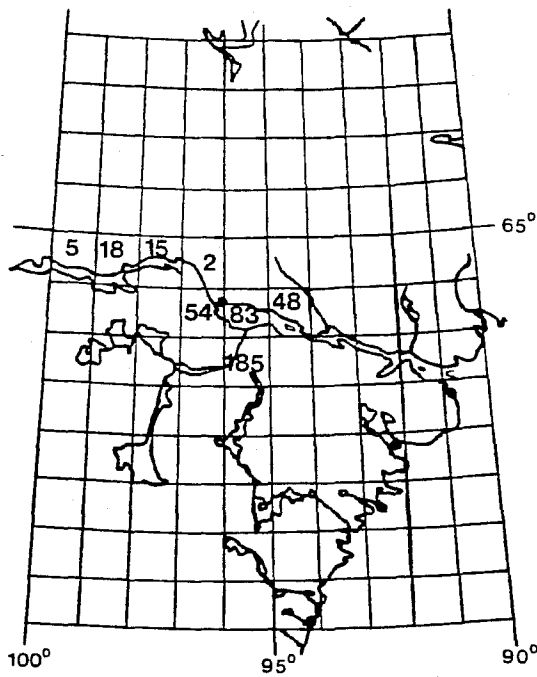
Fig. 5. Cont'd



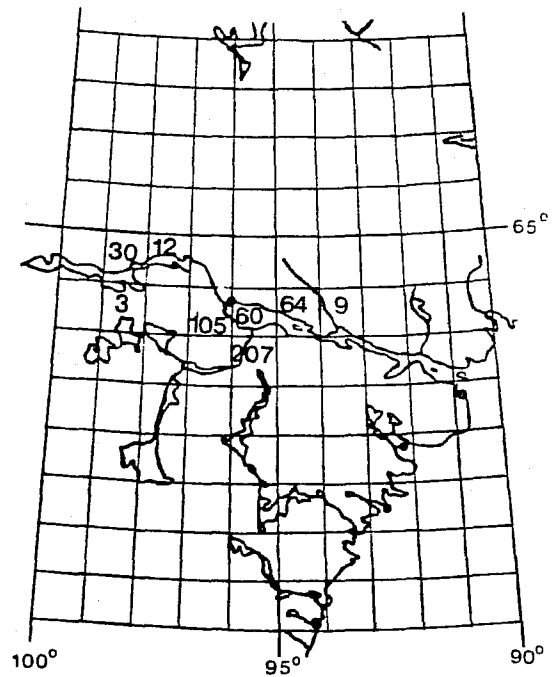
May 1983



June 1983

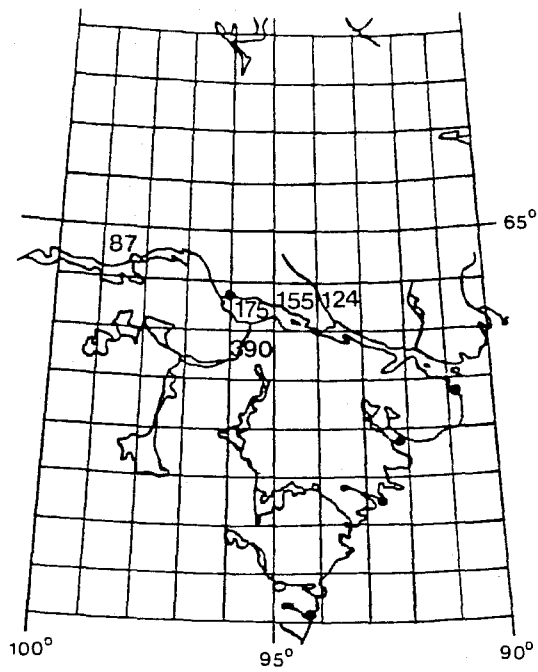


July 1983

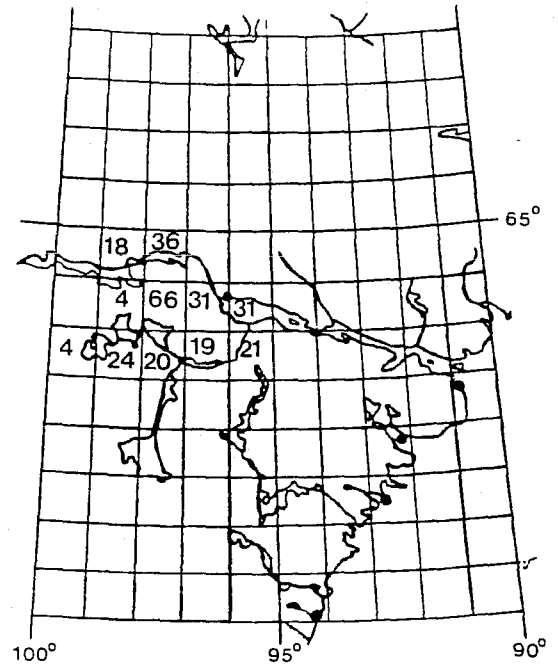


August 1983

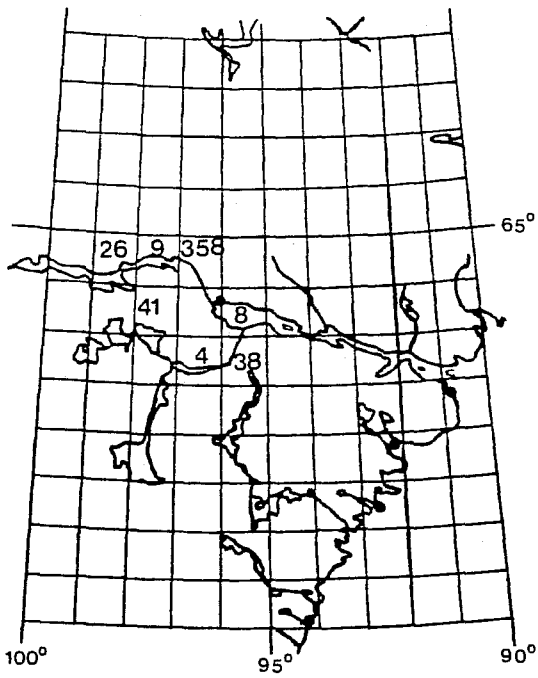
Fig. 5. Cont'd



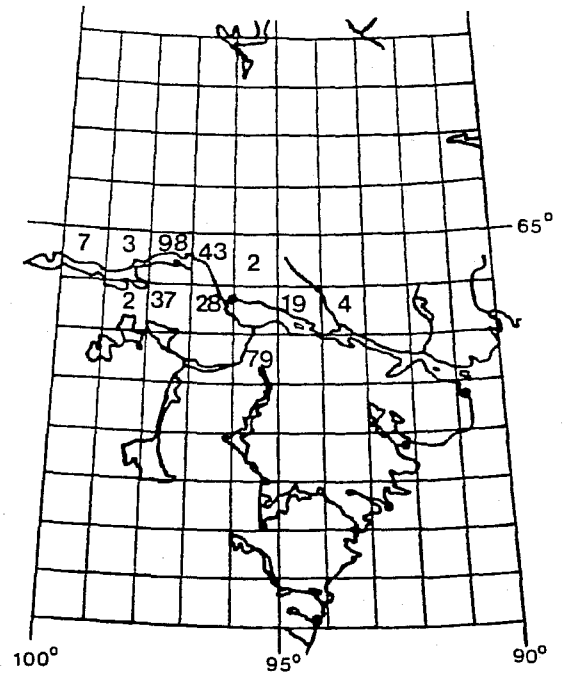
September 1983



October 1983

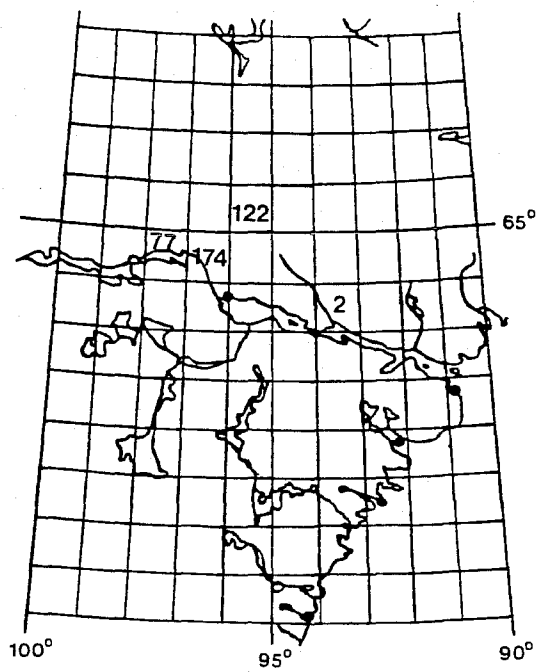


November 1983

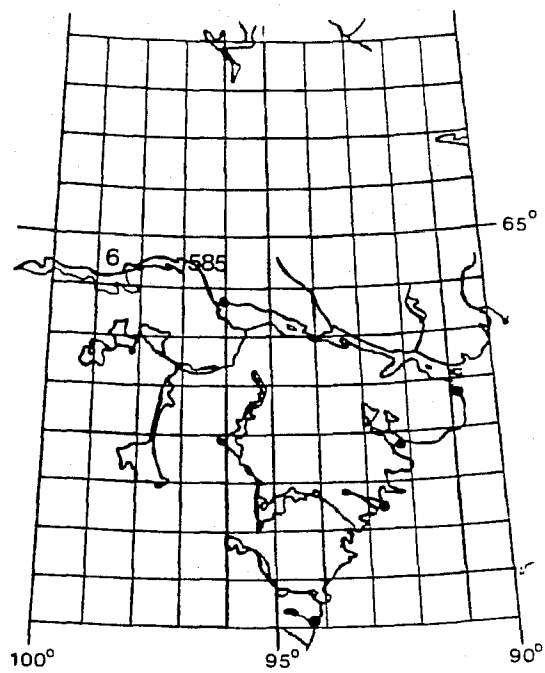


December 1983

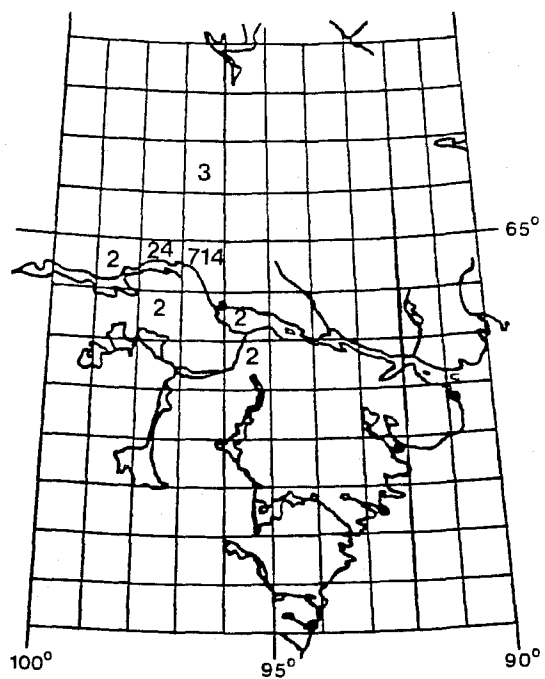
Fig. 5. Cont'd



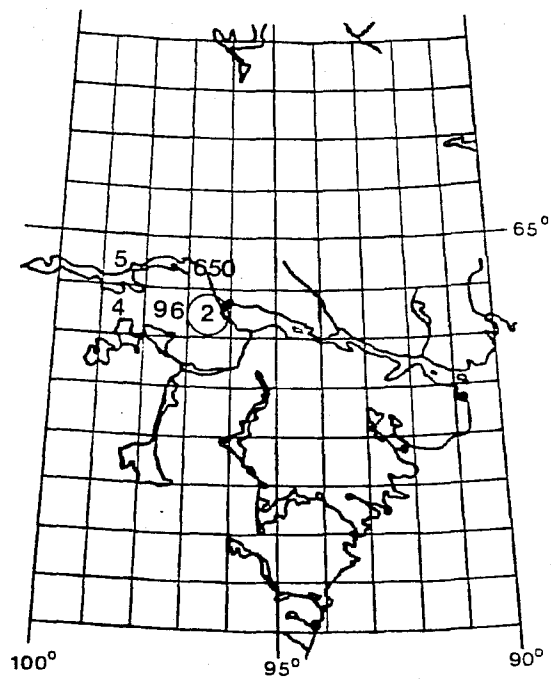
January 1984



February 1984

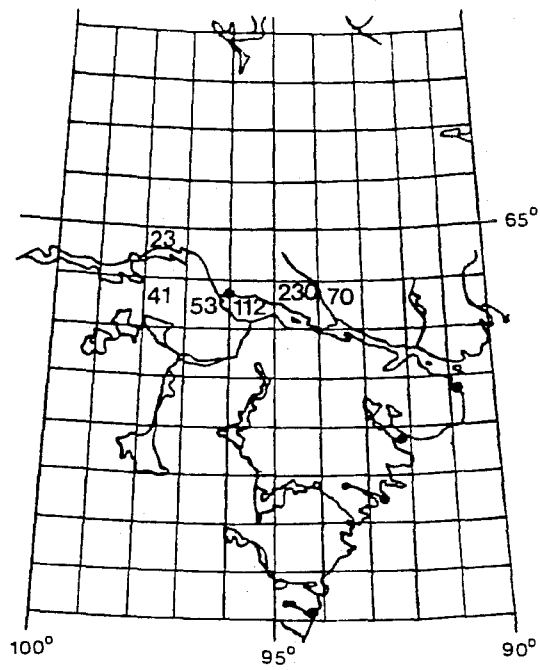


March 1984

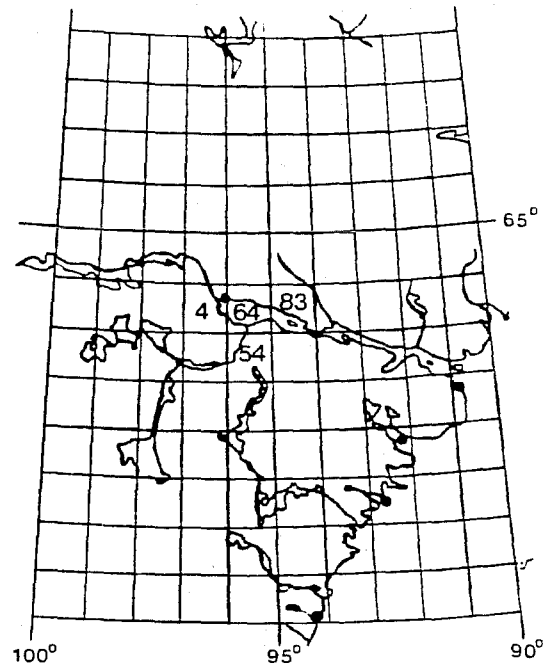


April 1984

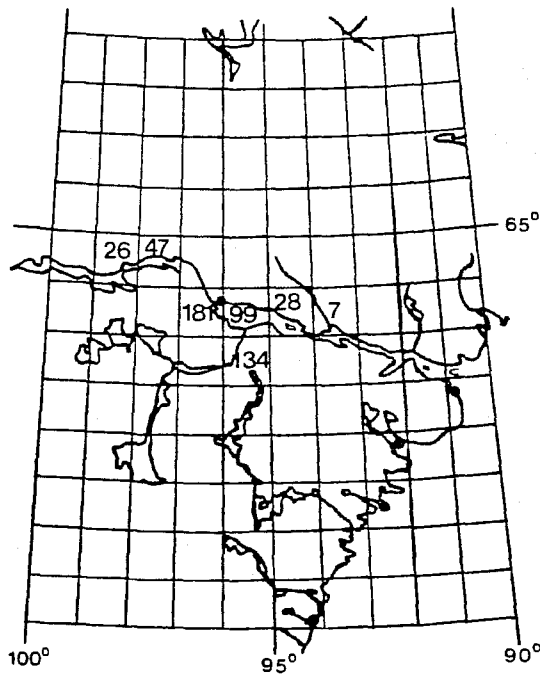
Fig. 5. Cont'd



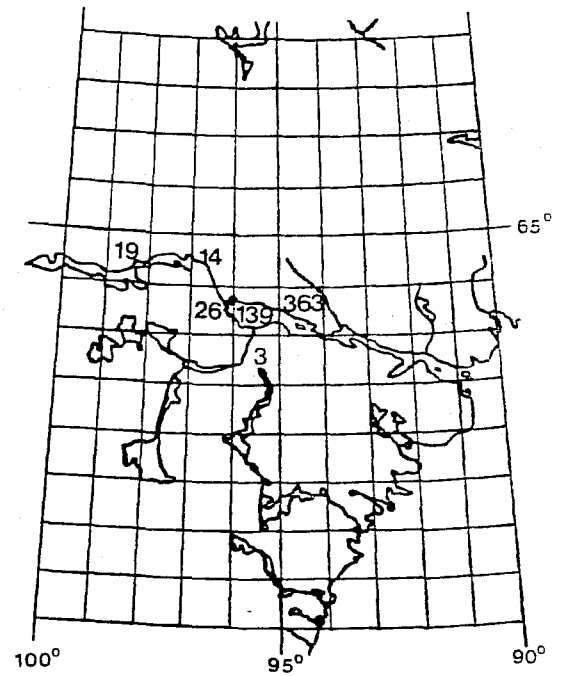
May 1984



June 1984

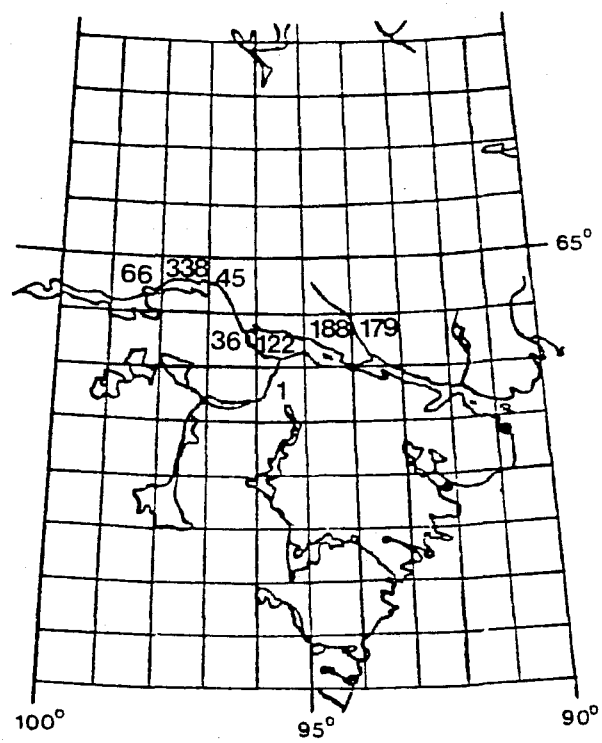


July 1984



August 1984

Fig. 5. Cont'd



September 1984

Fig. 5. Cont'd

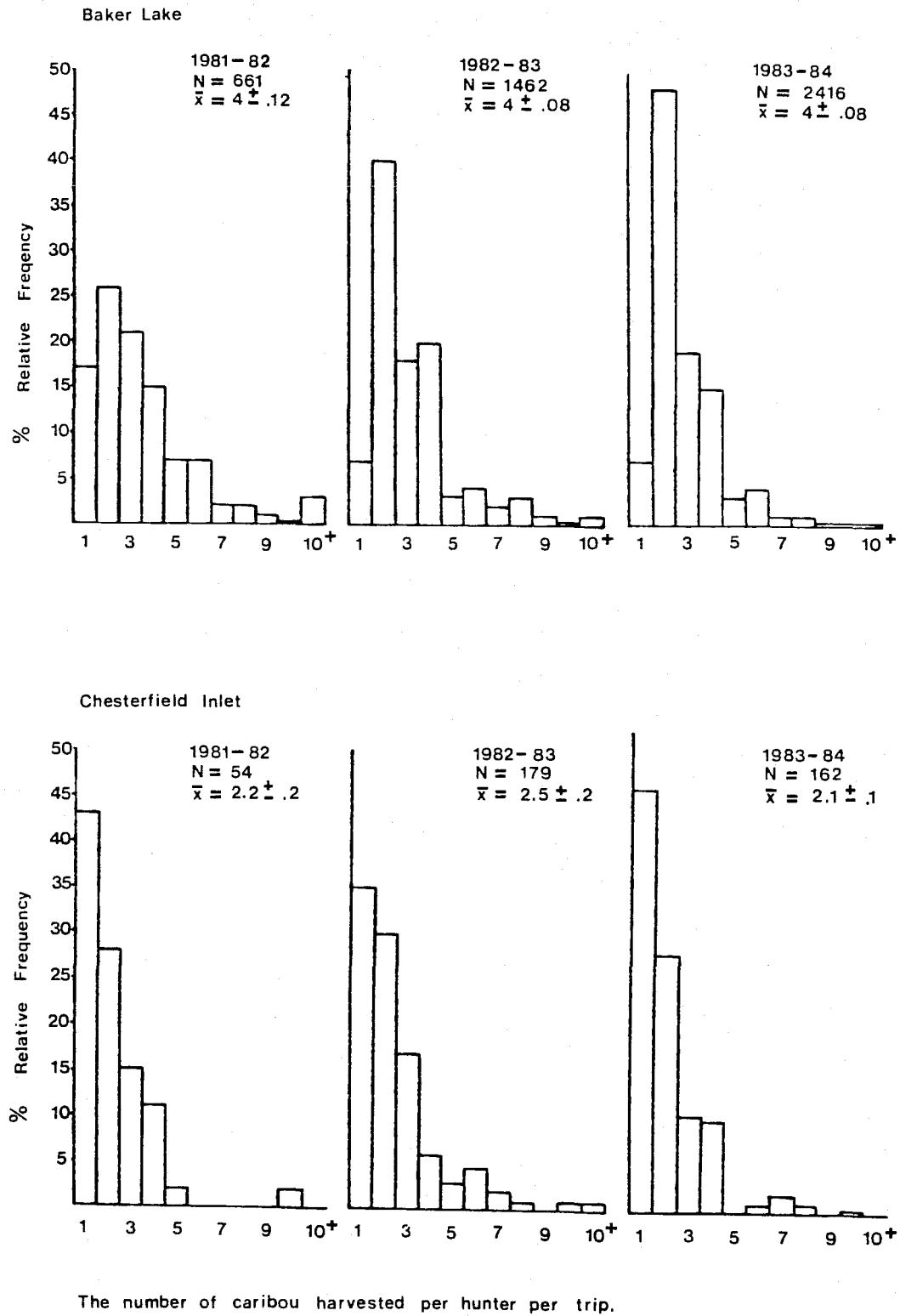
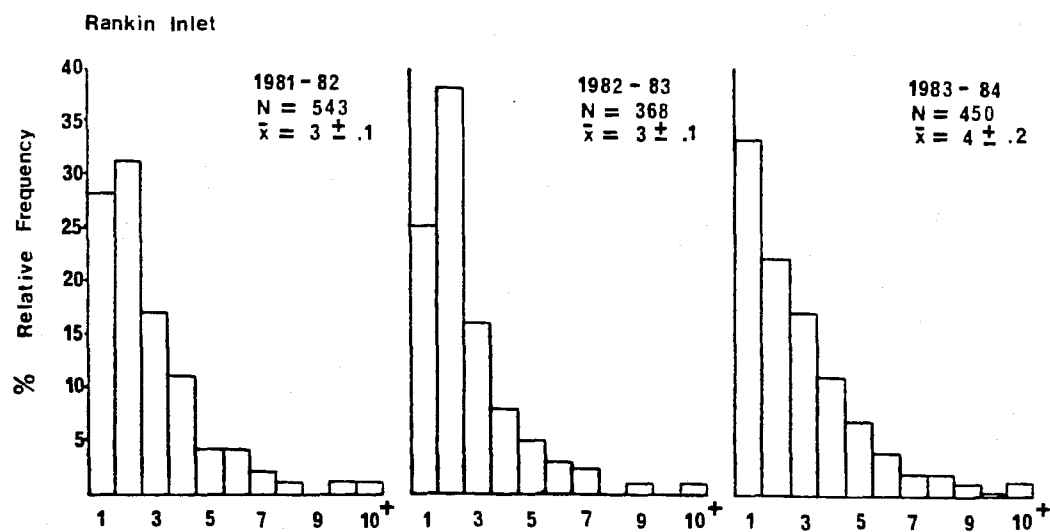
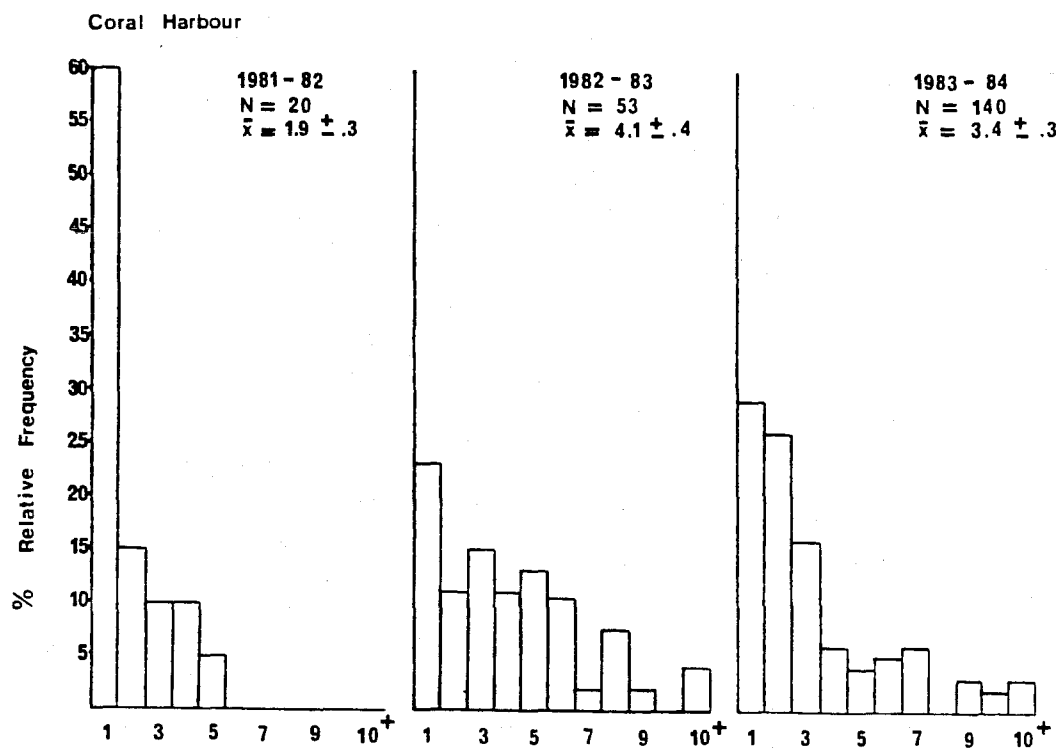


Fig. 6. Histogram showing the percent relative frequency of caribou harvested per hunt by hunters from the seven Keewatin communities for the years 1981 to 1984



The number of caribou harvested per hunter per trip.

Fig. 6. Cont'd

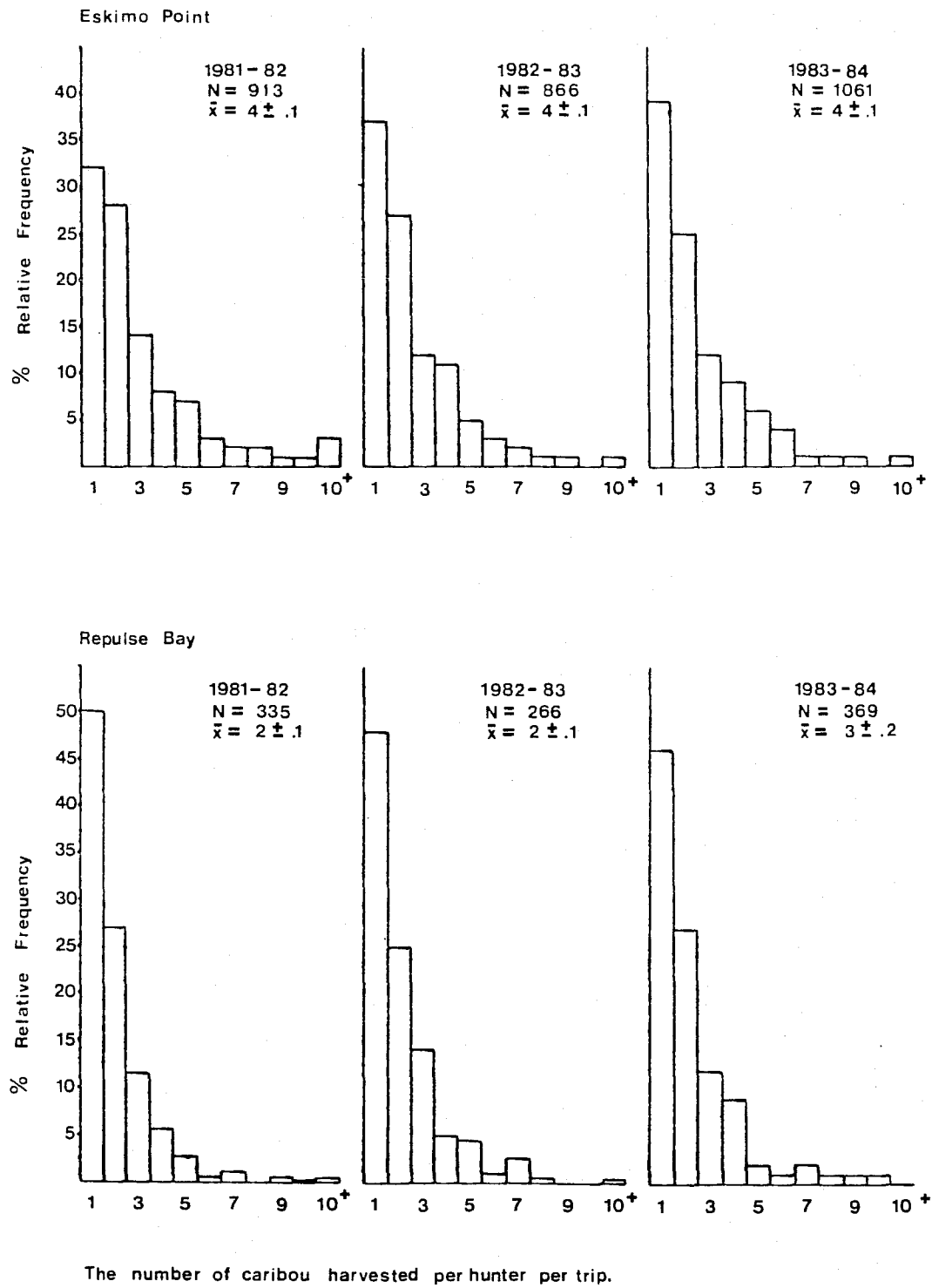


Fig. 6. Cont'd

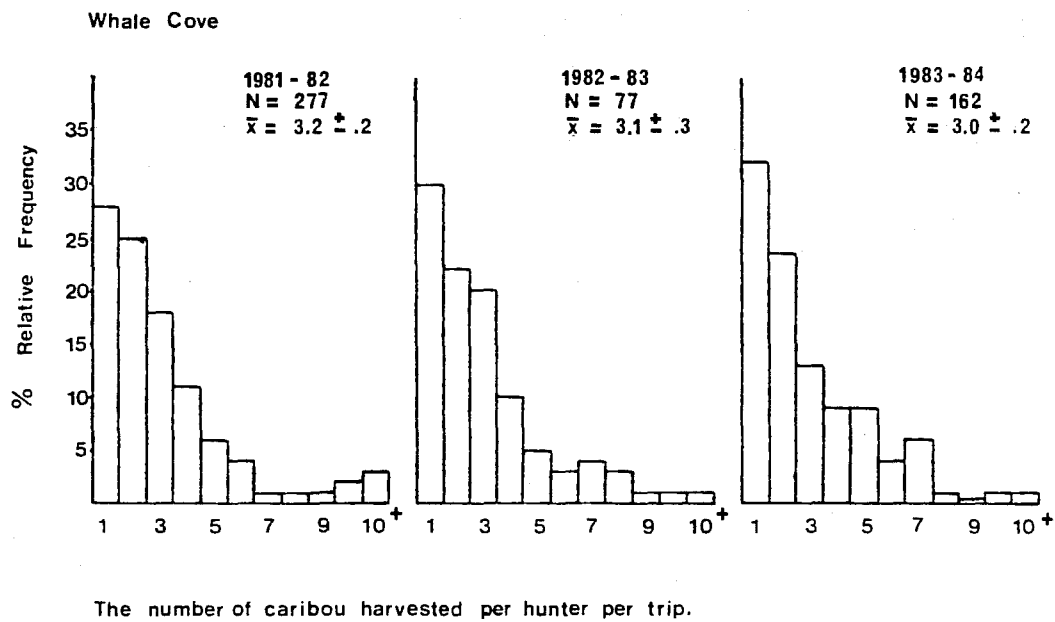


Fig. 6. Cont'd

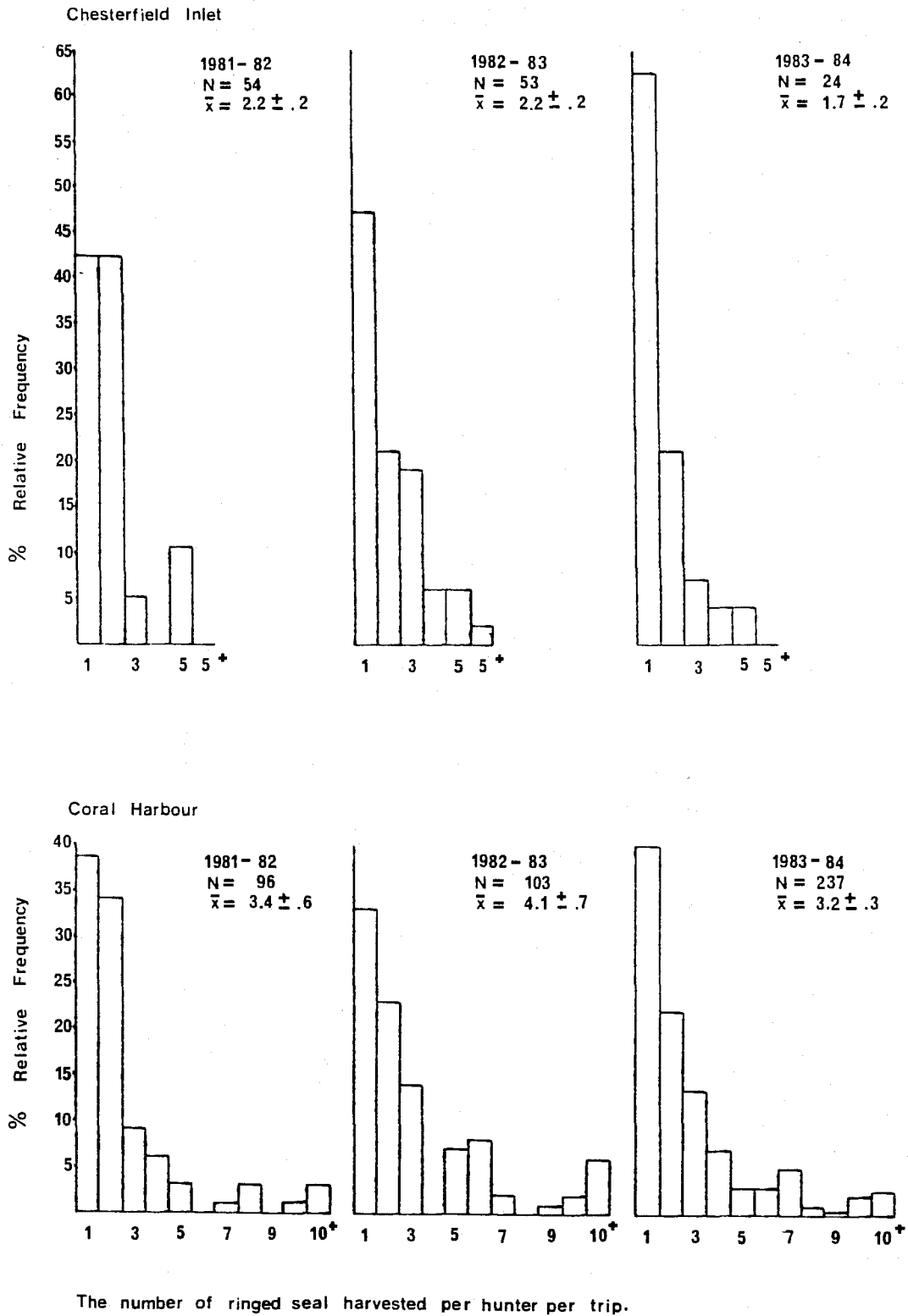
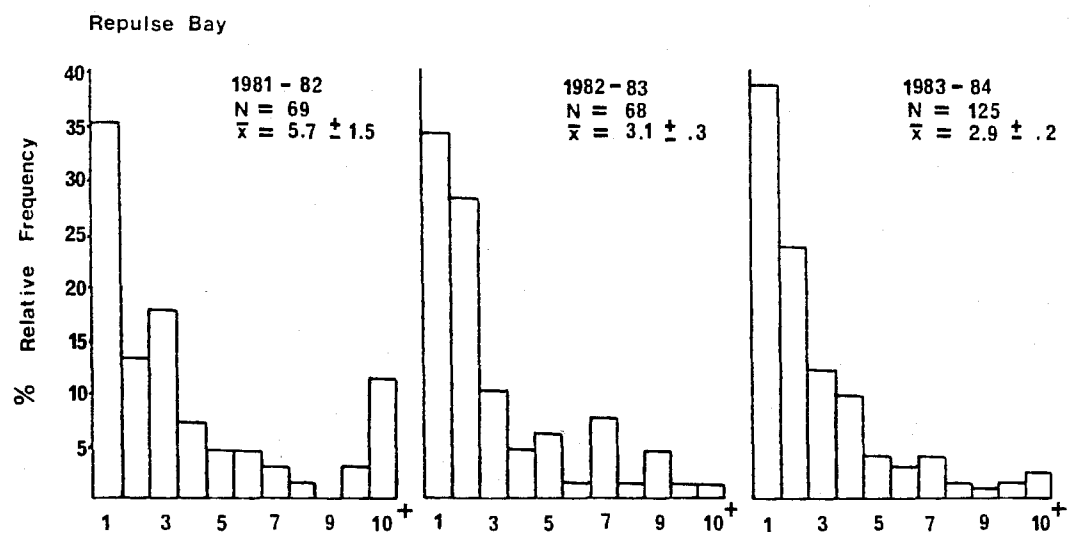
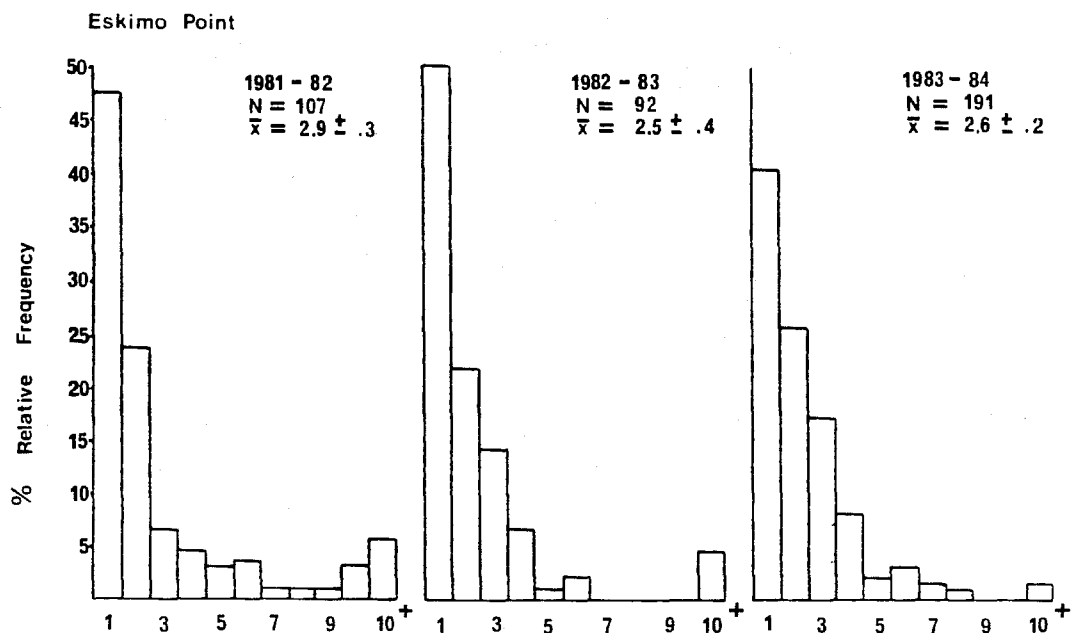


Fig. 7. Histogram showing the percent relative frequency of ringed seal harvested per hunt by hunters for the years 1981 to 1984



The number of ringed seal harvested per hunter per trip.

Fig. 7. Cont'd

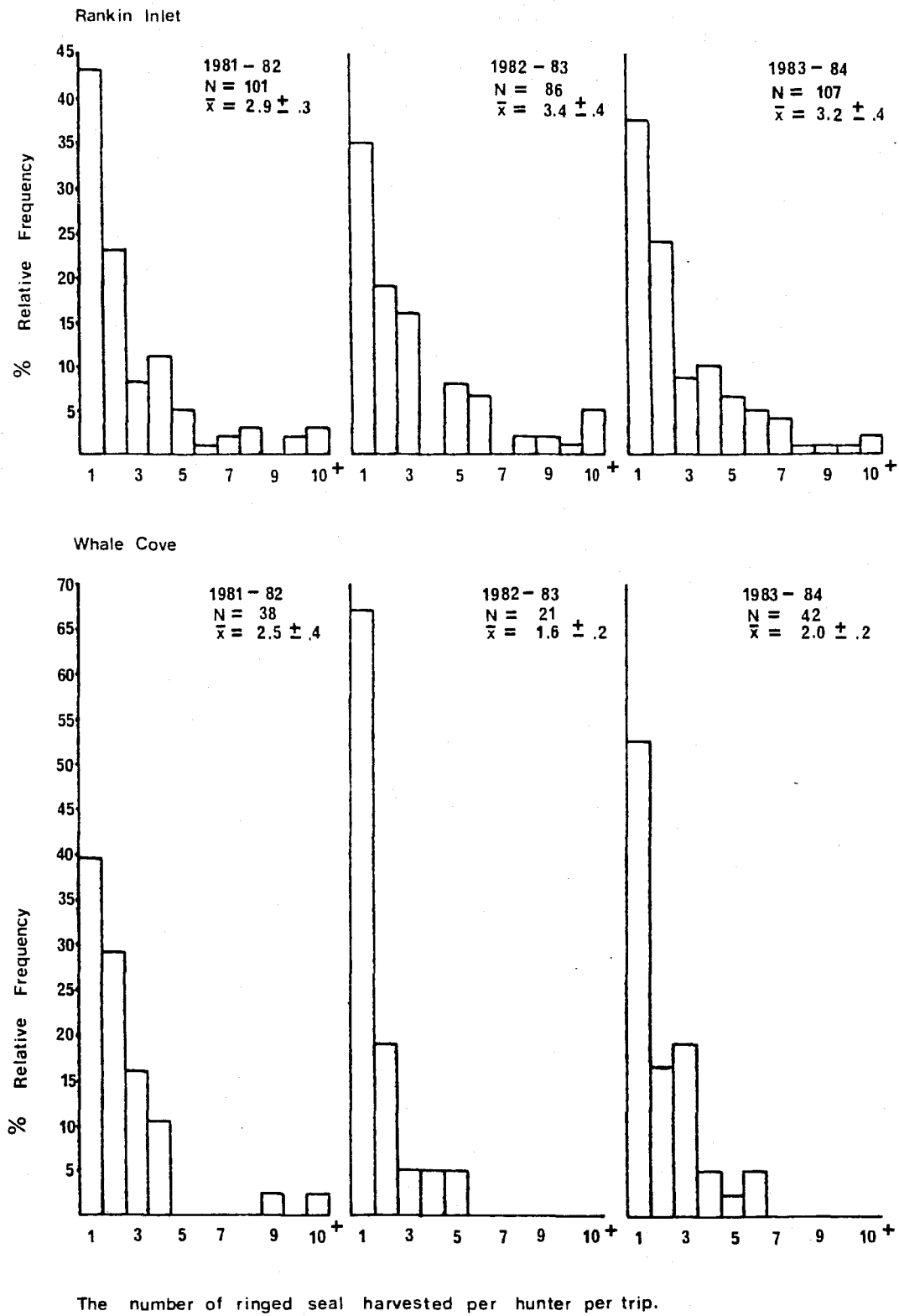


Fig. 7. Cont'd

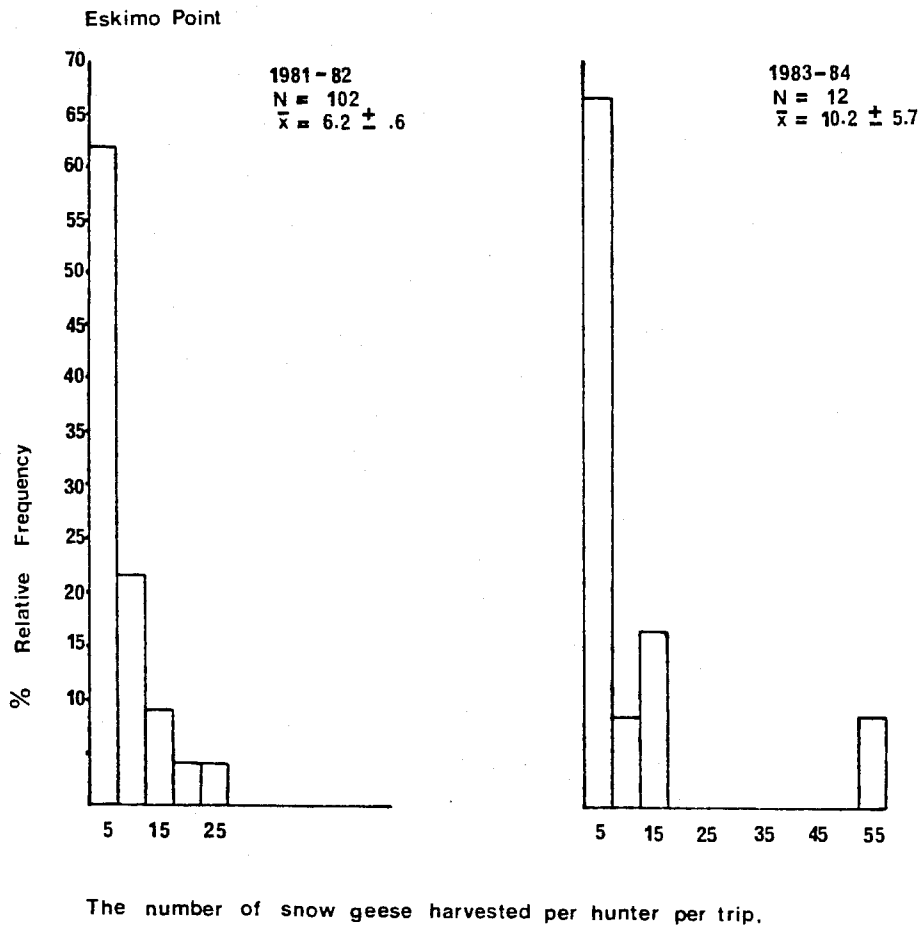
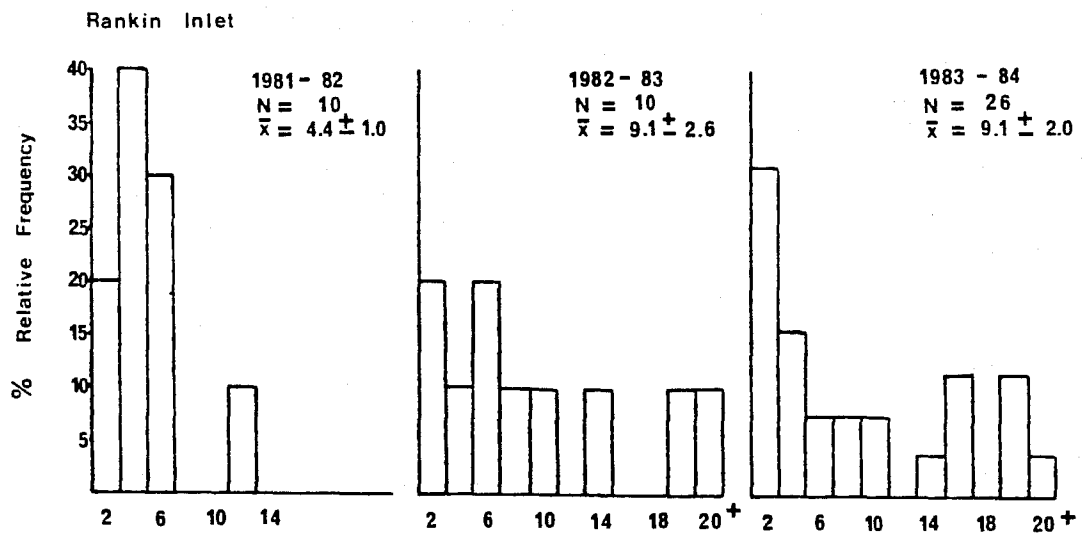
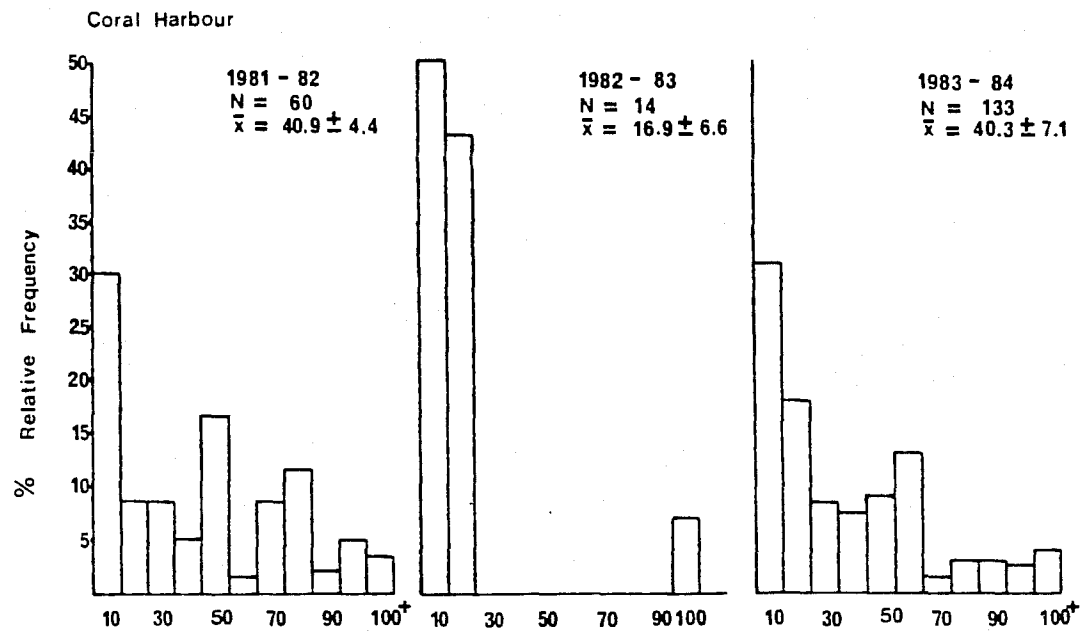
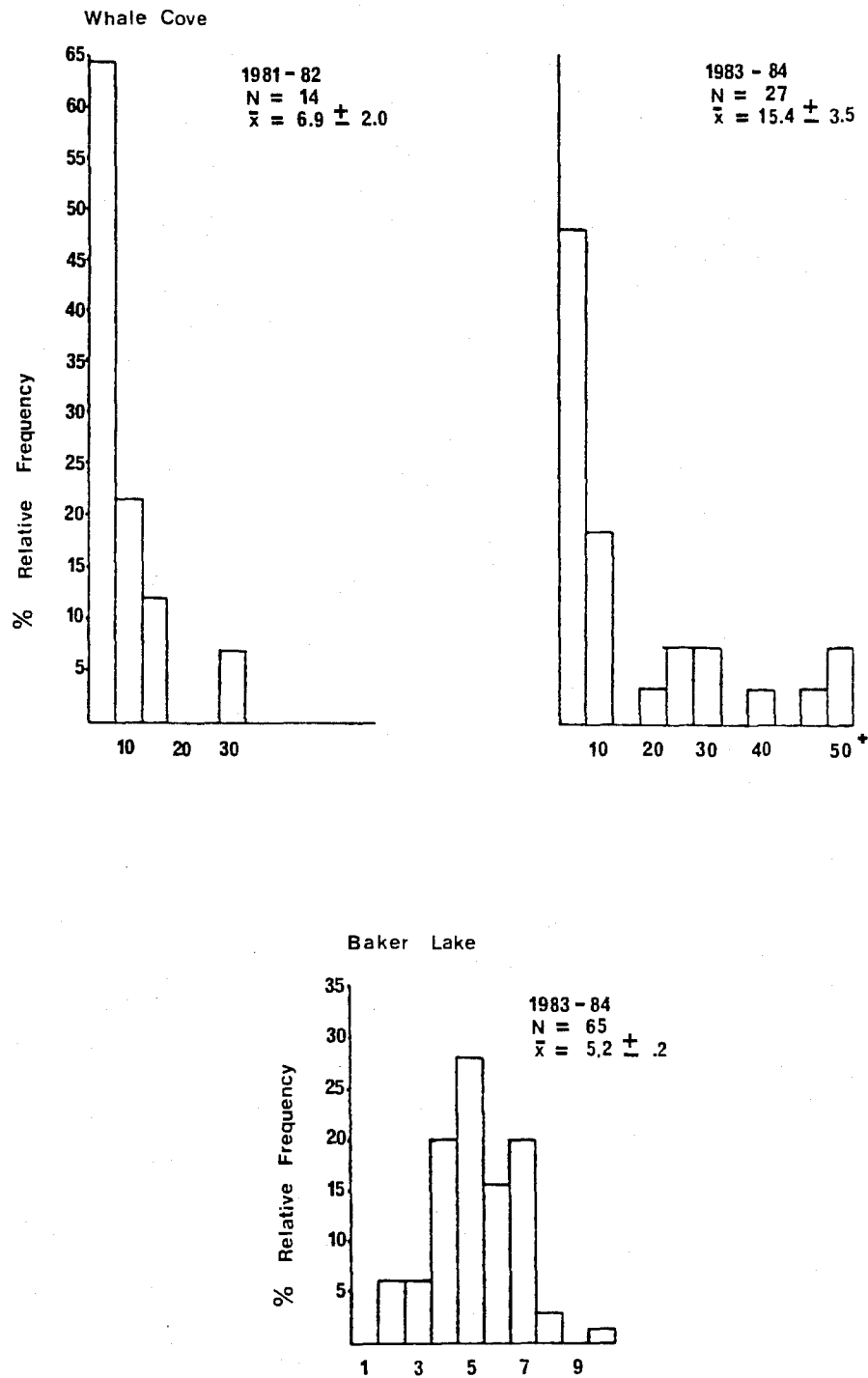


Fig. 8. Histogram showing the percent relative frequency of snow geese harvested per hunt by hunters for the years 1981 to 1984



The number of snow geese harvested per hunter per trip.

Fig. 8. Cont'd



The number of snow geese harvested per hunter per trip.

Fig. 8. Cont'd

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

Chairperson

Mr. F. McFarland Northern Affairs Program, Department of Indian 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. D. Milortok 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 as an example. 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

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

$$\frac{A}{A + B} = \frac{102}{102 + 23} = 0.816 = G$$
- the estimated success of those out hunting but not interviewed =
 $G \times D = 0.816 \times 14 = 11.4 = H$
- the total number of hunters whose activities are accounted for =
 $A + B + C + D + E = 102 + 23 + 85 + 14 + 6 = 230 = I$
- the total number of hunters that could have hunted =
 $I + F = 230 + 8 = 238 = J$
- the estimated success ratio of successful hunters interviewed in relation to the total hunters whose activities are accounted for =

$$\frac{A}{I} = \frac{102}{230} = 0.444 = K$$
- the estimated success of hunters whose activities are unknown =
 $K \times F = 0.444 \times 8 = 3.6 = L$
- the estimated total success = $A + H + L = 102 + 11.4 + 3.6 = 117 = M$
- the theoretical kill factor = $\frac{M}{A} = \frac{117}{102} = 1.14 = N$
 These factors are listed in Table 15 for each community by month.
- the participation ratio = $\frac{A + B + C}{J} \times 100 = \frac{102 + 23 + 85}{238} \times 100 = 88.2\%$
 The participation ratios for each community are given in the odd Tables from 1 to 13.
- 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. The results of this calculation are summarized in even Tables 2 through 14.