INUVIALUIT HARVEST STUDY
DATA REPORT
(July 1986 - December 1988)

Prepared by

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for

Department of Renewable Resources - G.N.W.T.
Department of Fisheries and Oceans - Canada
Canadian Wildlife Service
Inuvialuit Game Council
Hunters and Trappers Committees
(Aklavik, Inuvik, Tuktoyaktuk, Paulatuk, Holman, Sachs Harbour)

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4.0 ACKNOWLEDGEMENTS

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5.0 INTRODUCTION

The Inuvialuit Harvest Study is a required research program pursuant to the Inuvialuit Final Agreement (IFA) (The Western Arctic Claim, 1984; sections 12(41)(c)(ii)(B), 14(60)(h), 14(64)(c), 14(64)(h), 14(76)(h), 14(78)). This information is necessary because "A basic goal of the Inuvialuit Land Rights Settlement is to protect and preserve the Arctic wildlife, environment and biological productivity through the application of conservation principles and practices" (The Western Arctic Claim, 1984; sections 1(c),14(1)).

The Study's primary objective is to gather and maintain a permanent continuous long term record of Inuvialuit subsistence harvest levels, within the Inuvialuit Settlement Region (ISR). This information provides a basis for sound rational wildlife management, calculating a wildlife compensation regime that may be required as a result of development within the ISR, and determining Inuvialuit subsistence wildlife usage and requirements. Wildlife management and environmental impact assessment is accomplished by various bodies also established pursuant to the IFA.

6.0 OVERVIEW

A multi-agency Steering committee was established during 1986. Members represented the interest of the Inuvialuit, Canadian Wildlife Service (CWS), Renewable Resources (GNWT), and Department of Fisheries and Oceans (DFO) in the management of wildlife within the ISR. The Steering committee completed the initial design for the Harvest Study in July 1987.

The Inuvialuit Harvest Study Coordinator position was staffed during April 1987.

During May and June 1987 the Harvest Study Coordinator informed the Hunters and Trappers Committees (HTC's) in each community, and the Inuvialuit Game Council (IGC) of the objectives and design of the Harvest Study and solicited their input.

In June 1987 the IGC requested that the harvest study determine Inuvialuit subsistence harvest levels for the period July 1986 to June 1987. IGC required base line data

on subsistence harvest levels because they were negotiating a resource harvesting compensation agreement with Gulf Canada Corporation. Hunters were interviewed to obtain the required information during June and July, 1987.

In July 1987 Holman elected to participate in the Inuvialuit Harvest Study rather than continue participation in the Kitikmeot Harvest Study conducted by the Department of Renewable Resources (GNWT).

During August and September 1987 the Steering Committee was dissolved and an Inuvik based Inuvialuit Harvest Study Working group was established to monitor and provide continued support and direction to the study.

The Compensation Agreement between the Inuvialuit and Gulf Canada Corporation was signed in September 1987.

During September to November 1987 the final study design was presented to the communities, and community based Fisheries and Wildlife Resource Persons were hired and trained to collect harvest information.

Monthly hunter recall surveys began during December 1987 and are continuing as a routine procedure.

During 1988 and 1989 a computer data base management system was designed and implemented.

7.0 STUDY RATIONALE

Under the terms of the Inuvialuit Final Agreement (IFA) (The Western Arctic Claim, 1984; sections 12(41)(c)(ii)(B), 14(60)(h), 14(64)(c)(h), 14(76)(h), 14(78)) a need was defined and a commitment made to acquire harvest information through local Hunters and Trappers Committee's and the Inuvialuit Game Council. Under the IFA renewable resource management is a cooperative venture between the Inuvialuit and various government agencies. Bodies set up under the IFA are responsible for sound wildlife management and recommending appropriate wildlife compensation regimes within the ISR. Harvest information is required by these organizations to carry out their responsibilities. These bodies include the: local Hunters and Trappers Committees (HTC's); Inuvialuit Game

Council (IGC); Wildlife Management Advisory Councils (North Slope and NWT); Fisheries Joint Management Committee (FJMC); Environmental Impact Screening Committee; Environmental Impact Review Board (Western Arctic Claim, 1984; sections 11, 12 and 14).

8.0 STUDY AREA

The study area includes the Inuvialuit Settlement Region (ISR) as described in the IFA (The Western Arctic Claim, 1984; Figure 1). There are six Communities in this area: Aklavik, Inuvik, Tuktoyaktuk, Paulatuk, Holman, and Sachs Harbour.

9.0 METHODS

9.1 Funding and Administration

IFA implementation funds provided to Canadian Wildlife Service (CWS), Department of Fisheries and Oceans (DFO) through the FJMC, and Government of the Northwest Territories Department of Renewable Resources (RR-GNWT) were allocated to the Inuvialuit Harvest Study. The Joint Secretariat - Renewable Resource Committees (Joint Secretariat) administrated funds. Initial basic computer equipment was provided by the department of RR-GNWT.

9.2 Study Organization and Personnel

9.2.1 Inuvialuit Harvest Study Working Group

During 1986 the Inuvialuit Harvest Study Working Group was established. Membership was comprised of representatives from the Joint Secretariat, IGC, FJMC, RR-GNWT, DFO, CWS, Department of Renewable Resources Yukon Territorial Government (RR-YTG), and Department of Indian and Northern Affairs and Northern Development (DIAND). These organizations participate in the co-management bodies set out in the IFA and require harvest statistics, along with biological information, to properly carry out their

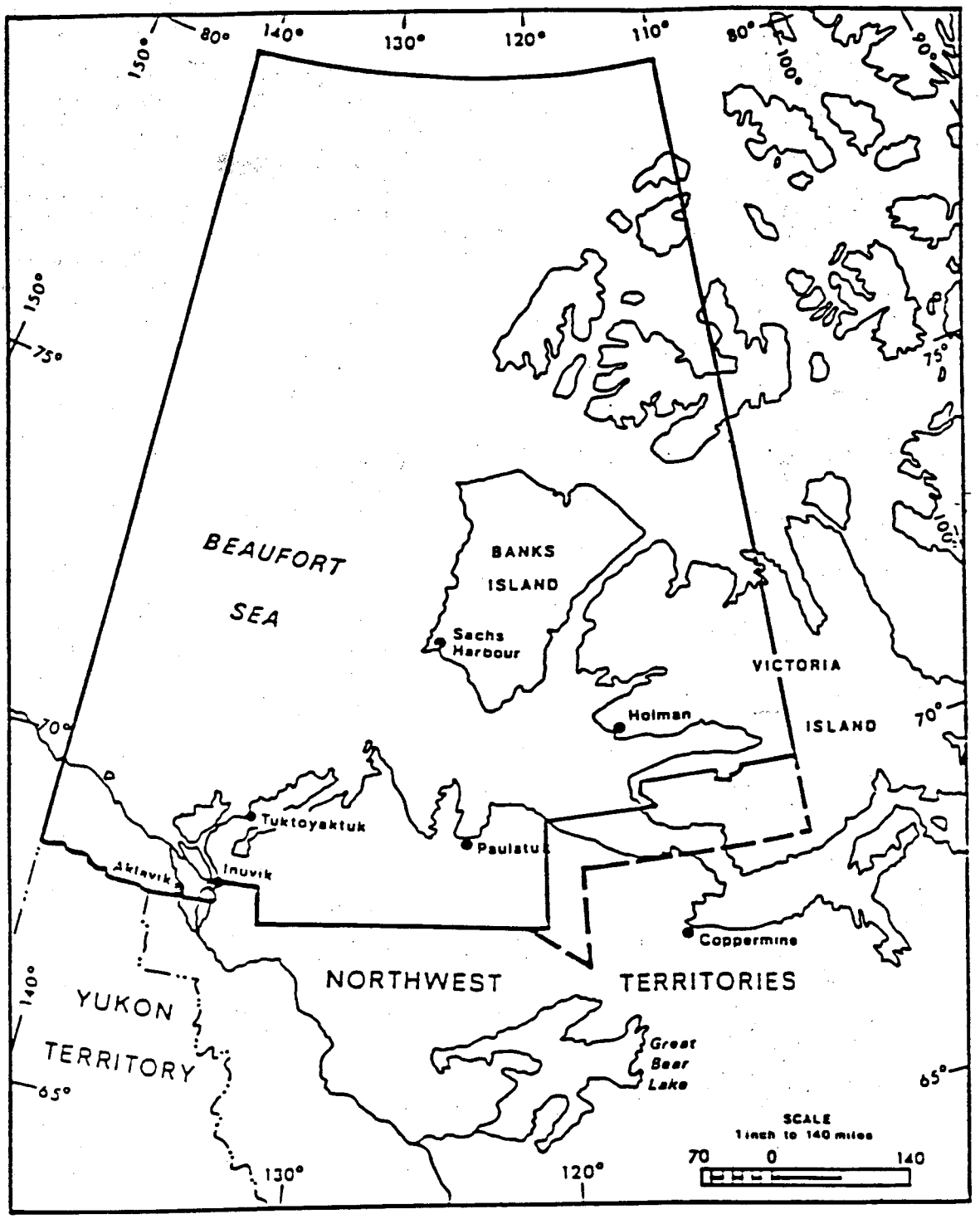


Figure 1: The Inuvialuit Harvest Study area as represented by the Inuvialuit Settlement Region.

responsibilities for the management and protection of fish and wildlife species within the ISR (Figure 2). This Steering Committee represented the Inuvialuit Harvest Study funding agencies, major potential users of harvest data, embodied a broad base of fish and wildlife expertise and had experience in conducting harvest studies. The Steering Committee meet on a regular bases during the period 1986 to July 1987 to address Inuvialuit Harvest Study funding, staffing, administration, objectives and technical design. A broad outline of the study design and methods of data analysis evolved during meetings held by the Steering Committee and a workshop on "Statistical Design of the Inuvialuit Harvest Study" commissioned by DFO in March 1987 (Lawson et al., 1987).

The Steering Committee was dissolved and replaced with a locally based Inuvialuit Harvest Study Working Group (Working Group). The Working Group was formed in order to expeditiously monitor, support, and provide direction for the study.

The Working Group is responsible for; budget allocations; coordination of funding between sponsoring agencies; technical advisory support; monitoring study implementation; and review and dissemination of harvest information for the Inuvialuit Harvest Study (Appendix 1). Membership includes representatives from the Inuvialuit, the Joint Secretariat, and each sponsoring agency (CWS, DFO, RR-GNWT). The members are predominantly based in Inuvik. The CWS representative is based in Yellowknife (NWT).

9.2.2 Inuvialuit Harvest Study Coordinator

The position of Inuvialuit Harvest Study Coordinator was staffed by the Joint Secretariat during April 1987. Initial training and technical support was provided by the RR-GNWT Regional Biologist in Inuvik. Duties of the Inuvialuit Harvest Study Coordinator include: coordination of all aspects of the study; designing and implementing methods of data collection; conducting community and hunter consultations; hiring, training and managing local Fisheries and Wildlife Resource Persons (field workers); designing and implementing a computer data base management system; analyzing; preparing reports; acting as liaison between the hunters, Inuvialuit organizations, sponsoring agencies, other interest groups; and, for disseminating harvest data.

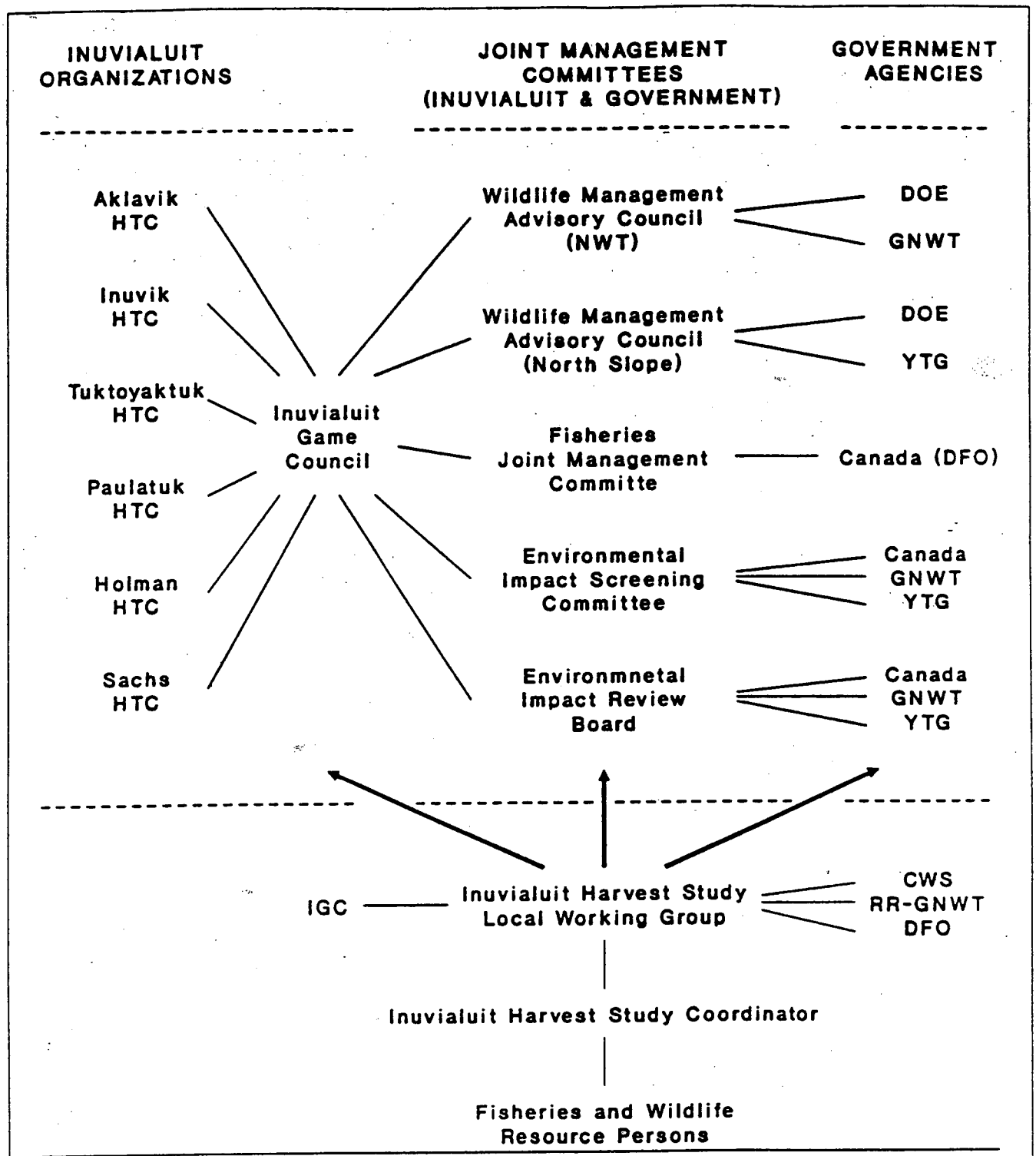


Figure 2: Inuvialuit Harvest Study organization and Renewable Resource Management Committees (HTC - Hunters and Trappers Committee, IGC - Inuvialuit Game Council, DOE - Department of Energy, DFO - Department of Fisheries and Oceans, YTG - Yukon Territorial Government, CWS - Canadian Wildlife Service, GNWT - Government of the Northwest Territories, RR-GNWT - Department of Renwable Resources GNWT).

9.2.3 Fisheries and Wildlife Resource Persons

A great deal of emphasis was placed on the selection and training of the Fisheries and Wildlife Resource Persons (field workers). The interview process (the primary component of the study) was considered to be one of the most demanding aspects of the Harvest Study. The HTC's were involved in the selection of field workers. They had indicated their willingness and desire to be involved as their local knowledge could be well applied in obtaining the appropriate personnel.

Interviews were conducted in each community during June and July 1987 to obtain data on harvest levels for the period July 1986 to June 1987. One field worker was contracted, in each community, to assist the study coordinator for a period of three to five days. These persons were appointed by the local HTC directors. During this survey Field workers were responsible for: selecting the hunters to be interviewed; introducing the study rationale, objectives, and coordinator to the hunters; assisting in hunter recall interviews.

The process of implementing the Harvest Study began during the fall of 1987. Field Worker positions were advertised in each community (Figure 3) with applications submitted to either the Study Coordinator or the local HTC. Applicants were interviewed by the HTC directors, the Study Coordinator, and a member of the Working Group. Selection of the Field Worker was made by the HTC directors, with input from the Study Coordinator and the Working Group member. During October and November 1987, seven field workers were hired from Aklavik (1 Field Worker), Inuvik (2), Tuktoyaktuk (1), Paulatuk (1), Holman (1), and Sachs Harbour (1).

By April 1988 it was apparent that Inuvik had fewer hunters and Aklavik more than originally projected. At this time one field worker position was shifted from Inuvik to Aklavik. In the Fall of 1988, after consultations with the HTC's and the hiring of new field workers, the hunter populations of Inuvik and Tuktoyaktuk were estimated as presented in this report (see Results).

Field worker training was conducted by the study coordinator during a two day workshop in Inuvik, during November 1987. Once field workers returned to their community and began working, communication was maintained by frequent phone conversations during which data collection progress and problems were discussed. The study coordinator spent

FISHERIES AND WILDLIFE RESOURCE PERSON
Joint Secretariat
Inuvialuit Renewable Resource Committees

Local Fish and Wildlife resource persons are required to assist in the Inuvialuit Harvest Study for the Inuvialuit Settlement Region. These persons will work for the Joint Secretariat and report to the Inuvialuit Harvest Study Coordinator and the local Hunters and Trappers Committee.

Duties will include determining numbers of local area hunters; interviewing hunters and trappers; recording and summarizing hunter harvests; reporting information as required by the Harvest Study Coordinator, the IGC and the HTC's. This person will also assist in local area fish and wildlife programs as required.

The worker will be able to communicate with the local hunters and trappers, work alone, know who the local hunters and trappers are and the type and location of hunting and trapping in the area.

Positions available: One local Fisheries and Wildlife Resource Person is required from each of the following communities:Aklavik, Tuktoyaktuk, Paulatuk, Sachs Harbour, Holman. Two positions are available in Inuvik.

Payment: Payment will be on a contract basis.

People applying for these important positions are asked to forward a letter, and/or resume stating their interest and ability to perform the required duties, to:

Michael Fabijan
Inuvialuit Harvest Study Coordinator
P.O. Box 2120
Inuvik, N.T.
XOE OTO
phone: 979-7306

Closing date October 17, 1987

Figure 3: Employment advertisement for Inuvialuit Harvest Study Fisheries and Wildlife Resource Persons.

time with the field worker discussing and reviewing various aspects of the study, during community visits.

Field workers were required to: determine and maintain an up to date list of local hunters; interview hunters on a monthly basis; and report information, as required, to the study coordinator, IGC, and the local HTC. It was also intended that these persons assist in local fish and wildlife programs (Figure 3).

Field workers were hired under contractual agreement where they received a standard monthly payment. We felt that this method of payment would attract conscientious individuals who would be committed to long term involvement with the study and ensure successful implementation of the study. Interruptions in data collection, potential data losses, and costs associated with rehiring and training would be minimized. In addition field workers could establish and maintain a positive relationship with the hunters, could identify trends in the harvest, and find it easier to monitor hunter activity.

9.3 Community Consultations

Hunters were informed about the proposed Inuvialuit Harvest Study and their input was solicited during community consultations.

The Harvest Study Coordinator and a representative of the Steering Committee conducted the initial community consultations at the HTC and IGC meetings during May and June 1987. The Study Coordinator solicited input to the study design from individual hunters during the initial recall interviews, conducted in June and July 1987.

At these meetings the study coordinator gave a presentation on the rationale and proposed design of the study and provided each hunter with a summary document for review. They were asked to participate and comment on in the study design, so that their individual, local, and regional needs would be fully addressed. They were asked to consider the types, how, when, and by whom the data should be collected.

We stressed that individual hunter information would be completely confidential. The identity of an individual hunter would reside only with the local field worker and the study coordinator. Hunter anonymity would be strictly maintained. We explained that the steering committee had firmly expressed the policy that this study be a vehicle for obtaining accurate

harvest data and was not a tool for enforcement of fish and game regulations. They recognized that the integrity of the study would be jeopardized if hunters perceived that harvest data were being used for enforcement, or if hunter confidentiality was not maintained, as hunters could elect to not fully participate in the study.

Holman was already participating in the Kitikmeot Harvest Study conducted by RR-GNWT. We explained to the hunters that they had the option of participating in the Inuvialuit Harvest Study. As a member community within the ISR the Holman HTC resolved to participate in the Inuvialuit Harvest Study. This allowed for the standardized data collection and reporting among all the Inuvialuit Settlement Region communities.

The comments of the hunters and trappers were integrated into the study design. The final study design was presented to the HTC's by the study coordinator during the Fall of 1987, and to individual hunters by the field workers during the initial round of monthly interviews. The proposed study design was accepted by the hunters and trappers within the I.S.R. They also affirmed the importance of this research, and indicated their willingness to participate in the study. During 1988 the study coordinator attended IGC meetings and several HTC meetings in each community, to update hunters on the progress of the study.

9.4 Harvest Study Species

A species list was generated during discussions with the Steering Committee and the communities. Harvest information was collected for 59 fish and wildlife species (Table 1) including: 5 species of marine mammals, 18 species of terrestrial mammals, 13 species of fish, and 23 species of birds.

9.5 Recall Aids

Several recall aids were used to increase the precision and accuracy of harvest data obtained during hunter interviews. These aids included topographic maps, a bird identification book, a printed species list, and the Inuvialuit Harvest Study Calendar.

Species indentified by the Inuvialuit Harvest Study (standard names)	Multiple Species covered by standard name	Scientific name	Local common and translated names
FISH			
Arctic Charr		*Salvelinus alpinus*	
- anadromous			Iqalukpik
- landlocked			Iqaluakpak
Broad Whitefish		*Coregonus nasus*	Anaakliq
Lake Whitefish		*Coregonus clupeaformis*	Humpback, Pikuktuuq
Cisco	- Arctic	*Coregonus autumnalis*	Qaaktaq, Qanktaq
	- Least	*Coregonus sardinella*	
Pacific Herring		*Clupea harengus pallasi*	Blue Herring, Piqquaqtitaq
Saffron Cod		*Eleginus gracilis*	Tom Cod, Uuqaq
Arctic Cod		*Boreogadus saida*	Rock Cod, Uugavik
Lake Trout		*Salvelinus namaycush*	Iqaluakpak
Burbot		*Lota lota*	Loche, Tiktaalik
Inconnu		*Stenodus leucichthys*	Conni, Siiraq
Northern Pike		*Esox lucius*	Jack Fish, Siulik
Arctic Grayling		*Thymallus arcticus*	Sulukqauqaq
Chum Salmon		*Oncorhynchus keta*	Dog Salmon
BIRDS			
Greater White-fronted Goose		*Anser albifrons*	Yellow Legs, Niglik
Canada Goose		*Branta canadensis*	Uluagullik
Snow Goose		*Chen caerulescens*	Wavies, Kanguq
Snow Goose (blue phase)		*Chen caerulescens*	
Brant		*Branta bernicla*	Nigliknak
Ross Goose		*Chen rossii*	
Swan	- Tundra	*Cygnus columbianus*	Qugyuk
	- Trumpeter	*Cygnus buccinator*	
Pacific (Arctic) Loon		*Gavia pacifica*	Maliri
Common Loon		*Gavia immer*	King Loon, Tuuliik
Yellow-billed Loon		*Gavia adamsii*	Qaqsauq
Red-throated Loon		*Gavia stellata*	Sugliq
Canvasback		*Aythya valisineria*	
Eider	- King	*Somateria spectabilis*	Qingalik
	- Common	*Somateria mollissima*	
	- Spectacled	*Somateria fischeri*	
	- Steller's	*Polysticta stelleri*	
Gadwall		*Anas strepera*	
Goldeneye	- Common	*Bucephala clangula*	Bell Duck, Avilugtauruk
	- Barrow's	*Bucephala islandica*	
Green-winged Teal		*Anas crecca*	
Mallard		*Anas platyrhynchos*	Kurugakpak
Merganser	- Common	*Mergus merganser*	Pie Duck
	- Red-breasted	*Mergus serrator*	
Oldsquaw		*Clangula hyemalis*	Squaw Duck, Ahaanliq
Northern Pintail		*Anus acuta*	Ivugaq
Scaup	- Greater	*Aythya marila*	Kaklgutuuk
	- Lesser	*Aythya affinis*	
Scoter	- Black	*Melanitta nigra*	Black Duck, Tuungavik
	- Surf	*Melanitta perspicillata*	
	- White-winged	*Melanitta fusca*	
Northern Shoveler		*Anas clypeata*	Spoon Bill
American Widgeon		*Anus americana*	Whistling Ducks, Ugguigik
Ptarmigan	- Willow	*Lagopus lagopus*	Aqidjigiq
	- Rock	*Lagopus mutus*	
Sandhill Crane		*Grus canadensis*	Tatidjgaq
Snowy Owl		*Nyctea scandiaca*	Ukpik

Table 1: Species list for Inuvialuit Harvest Study. Hunters were asked to provide information on the harvest of these fish and wildlife species.

Species indentified by the Inuvialuit Harvest Study (standard names)	Multiple Species covered by standard name	Scientific name	Local common and translated names
MAMMALS			
Ringed Seal		*Phoca hispida*	Natchiq
Bearded Seal		*Erignathus barbatus nauticus*	Ugyuk
Walrus		*Odobenus rosmarus divergens*	Aiviq
		Odobenus rosmarus rosmarus	
Beluga		*Delphinapterus leucas*	White whale, Qilalugaq
Polar Bear		*Ursus maritimus*	Nanuk
Caribou		*Rangifer tarandus caribou*	Tuktu
		Rangifer tarandus granti	
		Rangifer tarandus groenlandicus	
		Rangifer tarandus pearyi	
		Rangifer tarandus tarandus	
Muskox		*Ovibos moschatus*	Umingmuk
Moose		*Alces alces andersoni*	Tuktuvak
		Alces alces gigas	
Dall's Sheep		*Ovis dalli dalli*	Imnaiq
Grizzly Bear		*Ursus arctos horribilis*	Brown Bear, Aklaq
American Black Bear		*Ursus americanus americanus*	
Wolf		*Canis lupus arctos*	Amaruq
		Canis lupus bernardi	
		Canis lupus mackenzii	
		Canis lupus pambasileus	
		Canis lupus tundrarum	
Wolverine		*Gulo gulo luscus*	Quavvik
Lynx		*Lynx lynx canadensis*	Niutuyik
Arctic Fox		*Alopex lagopus innuitus*	
(identified by color phase)			
- white			White Fox, Tiriganniaq
- blue			Blue Fox, Oggarliq
Red Fox		*Vulpes vulpes alascensis*	
(identified by color phase)			
- red			Red Fox, Aukpilaqtaq
- cross			Cross Fox, Kiasirutilik
- silver			Silver Fox, Marraq
- black			Black Fox
Ermine		*Mustela erminea arctica*	Weasel, Tigiak
American Marten		*Martes americana actuosa*	Kavisiak
American Mink		*Mustela vison ingens*	Tigiakpak
Muskrat		*Ondatra zibethicus spatulatus*	Kivgaluk
American Beaver		*Castor canadensis belugae*	Kiagiak
		Castor canadensis canadensis	
River Otter		*Lutra canadensis preblei*	Pamiuqtuuq
		Lutra canadensis yukonensis	
Hare/Rabbit	- Arctic Hare	*Lepus arcticus andersoni*	Ukalik
		Lepus arcticus banksicola	
	- Snowshoe Hare	*Lepus americanus macfarlani*	

Nomenclature follows that of:
Banfield, 1987; Godfrey, 1986; Hart, 1973; Johnson and Herter, 1989; Leim and Scott, 1966; Scott and Crossman, 1973; Billy Day (Inuvik), pers. com.; Robert Kuptana (Holman), pers. com.

Table 1: Species list for Inuvialuit Harvest Study. Hunters were asked to provide information on the harvest of these fish and wildlife species.
continued

Harvesters discussed the proposed recall aids, contributed to their design, and affirmed their usefulness, during community consultations.

Topographic maps (1:250,000 scale) functioned as a visual stimulus for the harvester when recalling the types and locating where species were harvested. Hunters indicated that a 1:250,000 scale topographic map would satisfy their needs and that hunters could locate and mark their harvest locations on them. The field guide Birds of North America (Chandler et al. 1966) was used to identify bird species when the name was unknown or was different from that used locally. A printed species list was used by the interviewer to assure that hunters were asked about all fish and wildlife species of interest to the harvest study.

Field workers first distributed the Inuvialuit Harvest Study Calendar to each harvester during 1988. The calendar was intended as a tool to increase the quality of harvest information and elevate the profile of the harvest study. It was designed to provide individual hunters with a method of recording their harvest on a daily basis, and to provide a list of fish and wildlife species of concern to the study. The calendar has three sections including:

1) An 11" X 17" fold out page for each month. A picture of local feature or event covers the top half of the page. The days of the month with lines to allow recording of data covers the bottom half of each page.
2) A description of the study, its origin, objectives, and instructions for using the calendar is provided in English and two of the Inuvialuktun dialects after the monthly pages.
3) Following this are photographs, with common and translated names of all fish and wildlife species included in the study. Where photographs could not be obtained only the species name is presented.

9.6 Coverage

We decided to collect harvest information from all native harvesters. The delta communities (Aklavik, Inuvik, Tuktoyaktuk) recommended that, in addition to the Inuvialuit harvesters, an attempt should be made to interview the resident Dene/Metis population, as

they also hunt on ISR lands. To facilitate wildlife management it was seen as important to obtain information on all native harvesting activities within the ISR.

Not all harvesters hunt or fish on a regular basis. As a result we attempted to collect harvest data from all potential native harvesters, because it would have been difficult to regularly determine and only survey active hunters. We developed and maintained the hunter interview list by using the knowledge of the local field worker and lists of General Hunting Licence (GHL) holders, HTC memberships and Inuvialuit beneficiaries.

9.7 Data Forms

Data forms were modified twice during the course of the study to broaden the information collected, simplify recording and facilitate computer data entry.

During June and July 1987 harvest information was recorded on a two part data form (Figure 4). Page one provided information on the hunter and listed the harvest study species. Hunter harvest, for the previous twelve months was recorded on page two. For each animal harvested the name of the general harvest location was recorded on both the data sheet and topographic maps. In the absence of a location name, the location was identified with a number. A carbon copy of the completed data forms was retained by the hunter.

Monthly harvest information collected during December 1987 and January 1988 was recorded on a one page data form (Figure 5). Hunters were identified only by number from a master list used by the field worker. "Survey Period starting" represents the starting date for the period for which information was collected. "Survey date" was the interview date. Codes were employed as a means of recording hunter activity and availability for interviews. Code 1 (Hunted) meant that the hunter harvested during the survey period. Code 2 (No Catch) indicated that the harvester hunted but did not harvest anything. Code 3 (Did not Hunt) indicated that the hunter did not hunt during the survey period but was interviewed. Codes 4 to 6 provided some information as to why a hunter was not interviewed. The body of this form was used to record the date, location, sex, maturity, and numbers for each species harvested. Map area was a numberreferencing a hunter marked location on the topographic maps and identified by name on the data sheet. Date of harvest was reported

NAME _____
AGE _____
ADDRESS _____
PHONE _____
HUNTER NUMBER _____
HOUSEHOLD MEMBERS _____

FISH

Charr
Broad whitefish
Cisco
Burbot
Inconnu
Lake trout
Pike (jack fish)
Grayling
Pacific herring
Tom Cod
Rock Cod

MARINE MAMMALS

White whale
Seals
-ringed
-bearded
Walrus

BIRDS

Swans
Geese
-snow
-white-fronted
-Canada
-Brant
Ducks
-diving
-puddle
-sea ducks
Common eider
King eider
Oldsquaw
Pintail
Mallards
Sandhill crane
Snowy owl
Loons
-common
-yellow-billed
-arctic
-red throated
Ptarmigan

FUR BEARERS
Sheep
Fox
-arctic (white)
-red
-cross
-silver
Hare
Muskrat
Beaver
Otter
Mink
Martin
Lynx
Wolverine
Wolf
Grizzly bear
Black bear
Moose
Caribou
Muskox

Data form page 1

INUVIALUIT HARVEST STUDY
ONE YEAR SURVEY

HUNTER NUMBER _____ COMMUNITY _____
INTERVIEW DATE _____ INTERVIEWED BY _____

WILDLIFE TYPE		NUMBER	LOCATION	NUMBER	LOCATION	NUMBER	LOCATION	NUMBER	LOCATION
MARINE MAMMALS	White whales								
	Ringed seals								
	Bearded seals								
	Walrus								
FISH	Charr								
	Broad whitefish								
	Cisco								
	Burbot								
	Inconnu								
	Lake trout								
	Pike (jack fish)								
	Grayling								
	Pacific herring								
	Tom cod								
	Rock cod								
FUR BEARERS AND GAME	Sheep								
	Fox								
	-arctic (white)								
	-red								
	-cross								
	-blue								
	Hare								
	Muskrat								
	Beaver								
	Otter								
	Mink								
	Martin								
	Lynx								
	Wolverine								
	Wolf								
	Bear								
	-grizzly								
	-black								
	Moose								
	Caribou								
	Muskox								
BIRDS	Swans								
	Geese								
	-white-fronted								
	-Canada								
	-brant								
	Ducks								
	-common eider								
	-king eider								
	-oldsquaw								
	-pintail								
	-mallards								
	Loons								
	-common								
	-yellow-billed								
	-arctic								
	-red throated								
	Snowy owls								
	Ptarmigan								
OTHER									

Data form page 2

Figure 4: Inuvialuit Harvest Study data forms used for hunter interviews during June and July 1987.

A)

INUVIALUIT HARVEST STUDY - HUNTER RECORD Page__of__

HUNTER NUMBER _____
COMMUNITY _____
Survey Date:
Survey Period starting: _____ (day) _____ (month) _____ (year)

Hunting code _____ (1) Hunted, (2) No Catch, (3) Did not Hunt, (4)Out hunting, (5) Out of town, (6) Could not contact

ANIMAL NAME	NUMBER HARVESTED								HARVEST LOCATION NAME	MAP AREA	DATE OF HARVEST
	TOTAL NUMBER	SEX			MATURITY						
		Unknown	Male	Female	Adults	Juvenile	Young of year				

COMMENTS:

B)

INUVIALUIT HARVEST STUDY HUNTER RECORD Page____of____

HUNTER NUMBER _____
COMMUNITY _____
INTERVIEW DATE: _____ (DAY) _____ (MONTH) _____ (YEAR)
HARVEST INFORMATION DATES: FROM _____ (DAY) _____ (MONTH) _____ (YEAR) TO _____ (DAY) _____ (MONTH) _____ (YEAR)
HUNTING CODE _____ (1) Hunted, (2) No catch, (3) Did not hunt, (4) Out hunting, (5) Out of town, (6) Could not Contact, (7) Did not want to be interviewed

ANIMAL NAME	NUMBER HARVESTED								HARVEST LOCATION NAME	MAP AREA	DATE OF HARVEST
	TOTAL NUMBER	SEX			MATURITY						
		Unknown	Male	Female	Adult	Juvenile	Young of year				
			Bull	Cow							

COMMENTS:

WHITE - STUDY COORDINATOR YELLOW - HUNTER COPY PINK - INUVIALUIT HARVEST STUDY FISHERIES AND WILDLIFE GOLD - HUNTERS AND TRAPPERS COMMITTEE

Figure 5: Inuvialuit Harvest Study data forms used for hunter interviews: A) for information collected during December 1987 and January 1988, B) for 1988 harvest data.

as a particular month, a range of days, or a specific date. Observations or explanatory notes by either the hunter or field worker were recorded in the comments section. A carbon copy of the completed form was retained by the hunter. The data sheet was modified to record hunter harvest for 1988 (Figure 5). Harvest information dates on this form show the complete period of time the survey information covered. One hunting code has been added for the situation where missing information results from a hunter not wishing to be interviewed. This data sheet is a four page NCR (self copying) form, thus eliminating the need for carbon paper. As noted on the bottom of the form, the first page is to be returned to the study coordinator, the second retained by the hunter, and the third by the field worker. The fourth copy, depending on the community, is either given to the local HTC or the study coordinator, as a backup.

9.8 Interviews

Individual hunters were interviewed using an open ended informal approach. In addition to asking hunters what, when, where, and how much wildlife was harvested over a particular time frame, we used the field workers knowledge of local, seasonal, and individual hunting practices to guide questioning on species harvested. Respondents were asked to indicate and/or mark their harvest locations on topographic maps thus enabling them to play a more active in the interview.

Hunter interviews went through two phases of implementation.

The Inuvialuit negotiated a compensation agreement with Gulf Canada Corporation (Gulf) during 1987. In part, this compensation agreement required a knowledge of past and present wildlife harvest levels. The IGC requested that implementation of the harvest study be accelerated to provide the required baseline information.

In June and July 1987 the harvest study coordinator and an HTC appointed assistant interviewed a sub-sample of the hunter population to determine Inuvialuit harvest levels for the period July 1986 to June 1987. Hunter interviews were carried out during June and July of 1987 (Aklavik 26-30 June and 2 July, Inuvik 1-3 July, Tuktoyaktuk 4-7 July, Paulatuk 7,8,11 July, Holman 17-19 July, Sachs 18-19 July). We relied on field worker knowledge to

select those hunters that were most active and/or readily available, as time constraints did not permit interviewing all hunters.

Field workers initially introduced the study coordinator, survey concept, and asked for the hunters voluntary participation in the study. The study coordinator then explained, in more detail, the origin, rationale and objectives behind this and future ongoing surveys. Hunters were asked to recall the number of fish and wildlife harvested, by species, for the previous 12 months. Hunters were asked if they harvested other fish and wildlife species than those listed on the data sheet. Data were recorded with additional species added to the list for use during subsequent interviews. Hunters were provided with a four page description of the proposed study design and asked for their input to this design. At the conclusion of each interview, we thanked each hunter for their participation and gave then a carbon copy of the information they had provided.

The Study Coordinator and Field Workers conducted interviews in all communities except Holman. The field worker in Holman had several years experience with the Kitikmeot harvest study and was thus familiar with harvest surveys. The coordinator spent one day conducting interviews with the field worker to familiarize him with the present data collection procedures. The field worker conducted all subsequent interviews in Holman.

Data were tabulated, harvest levels estimated, and the resulting information presented to the IGC and Gulf for use during their negotiations. The compensation agreement was signed in September 1987.

Routine monthly hunter surveys began in December 1987 and were carried out by field workers. Hunters were asked to recall what, when, where and how much fish and wildlife they had harvested on a monthly basis for the period July to the end of November 1987. Data on the sex and maturity of muskox, caribou, bears, sheep, and moose was also requested. Where a hunter was able to provide this information for other species it was also recorded. An attempt was made to interview all hunters during these surveys. Subsequent interviews were conducted on a monthly bases, which meant that optimally, a hunter was asked for only the previous month's information. When a hunter was unavailable or could not be contacted during a particular round of interviews, an attempt was made to collect

missing information during subsequent surveys. Information from hunters who were at outpost camps was collected when they returned to the community.

Completed data forms were returned to the study coordinator after each set of interviews and reviewed to verify that they had been completely and correctly filled out. Field workers were contacted to clarify any confusing information and the appropriate changes made to the original form. When this did not resolve the problem a copy was returned to the field worker and corrections were made by consulting with the hunter during the next interview. Noted corrections were made on the original data form. Data were filed for each community by month in cerlox bound books.

Field workers were provided with an updated record of hunter interviews each month indicating what data had been collected and where data gaps occurred. In 1988 the study coordinator accompanied field workers during some interviews to monitor data collection and discuss the study with individual harvesters.

9.9 Assumptions and Definitions

Subsequent to Steering Committee discussions and community consultations the following assumptions and definitions were made and adopted by the Inuvialuit Harvest Study.

1) Harvest is defined as the number of animals killed and recovered. It does not represent or take into account wounding losses.
2) Harvesters (hunters) were defined as native individuals sixteen years of age and over, residing in the Inuvialuit Settlement Region. These were predominantly Inuvialuit beneficiaries, as defined under the Inuvialuit Final Agreement. At the request of the HTC's and the IGC, this was extended to include the resident Dene/Metis population.
3) Family units (husband, wife, individuals under sixteen years of age) were regarded as one hunter. Their combined total harvest was recorded under the name of the head of the household.

4) Harvest location was defined as the area where the harvest took place. It was assumed that the harvester could and would mark the area, on a topographic map (1:250,000 scale) as either a point location or indicate a general area.

5) A recall survey is a feasible method of enumerating hunter harvest.

6) A monthly cycle of interviews provides an accurate record of harvest, minimizes recall error, does not unduly intrude on individual privacy, and does not impose an undue burden on hunters.

7) Hunter harvest recall is reliable, even over extended periods of time.

8) Hunters report the total number of all species harvested for subsistence use, including furs and unsalable pelts used for domestic purposes.

9) Hunters will not knowingly misrepresent the number or species they harvested.

10) The record of individual hunters are confidential. Distribution and publication of harvest statistics will be in a form that maintains hunter anonymity.

9.10 Analysis

Data were entered and summarized using the following IBM PC compatible equipment and software: Hewlett Packard Vectra computer (286), Club American computer (386), Paradox Version 2.0, Lotus 123 Version 2.01, Harvard Graphics Version 2.1, Wordperfect Version 4.2.

Harvest information was keypunched directly from the field worker completed data forms. A Paradox data entry form was designed to resemble the data collection form for keypunching. Paradox data base management software was used to create and maintain harvest data files.

Emphasis was placed on validating data entry and maintaining data integrity. Data files for each community were printed by survey period and then visually compared to the original data forms. Errors were noted and corrections made. The process was repeated until the data files were error free. This process was complicated by the large volume of information collected.

Proofed data were then added to a file containing all the harvest information for a particular community. Paradox programs were written to further check for errors in data entry or coding, and duplications or inconsistencies in the data. Where missing information for a previous survey was eventually obtained they were added to the data files. Once all corrections were made, validation programs were repeatedly run until no errors were found. Data inconsistencies that could not be dealt with by the study coordinator were referred to the field worker. Where necessary the field worker consulted with the harvester.

The data files for each community were formatted such that queries could by run using any variable or combination of variables. Paradox programs were written to analyze the harvest data and obtain the summary information. When harvest dates extended over several months the harvest was split between months based on the number of days within a month. To date the information on harvest location has not been analyzed. Harvest statistics were exported from Paradox to Lotus to produce summary tables. Harvard Graphics was used to produce figures utilizing data imported from Lotus. Wordperfect was used for word processing.

10.0 RESULTS AND DISCUSSION

10.1 Study Design and Support

The positive reception and level of cooperation by hunters during the initial and ongoing surveys was due to the particular need for harvest information to implement the IFA, involvement of working groups, communities and hunters in designing the study, and useful application of the data.

The need for and commitment to collect harvest statistics for wildlife management in the ISR was described within the land claim settlement. This contributed to the acceptance of the study. As equal partners in a joint research program, the Inuvialuit and wildlife management agencies represented on the Inuvialuit Harvest Study Working Group addressed their needs in the study's design, implementation, and eventual uses of harvest statistics.

The community consultation process was important in that it made it possible to: introduce the study personnel; inform hunters about the study rationale; indicated that this was their study to address Inuvialuit needs as defined in the IFA, and as such their input to it's design was needed. The mutually agreeable final study design was established only after numerous discussions with the steering committee IGC, HTC's, and individual hunters.

Hunters readily participated and became an integral part of the study design process. Local knowledge was applied to the overall design as noted in the methods section of this report. Harvesters also indicated that it was not feasible or desirable that effort and socio-economic data be collected at this time.

There was general consensus by both the Steering committee and the communities that hunter effort data would be useful information to collect. From a wildlife management perspective it could be used to construct indices of population abundance as well as identify seasonal and annual trends for certain species. Effort data would also be important in assessing compensation requirements in the event that development activities resulted in harvest loss or reduction. A less obvious impact would be one which caused the harvester to expend greater effort to obtain an equivalent harvest because animals were fewer or further away. It was decided not to attempt collection of effort data at this time but consider it for future inclusion in this, or a separately designed, parallel study. During the initial phases of the study it was decided that focus should be on the collection of harvest data alone. An attempt could be made to design some method of collecting effort data once the study had become routine for the hunters and field workers. This would be undertaken if it could be carried out with a design that did not impose an undue hunter response burden. The chief reason for not collecting effort data at this time was the undue response burden it would impose on the harvester, thus jeopardizing the primary objective of the study. Proposed harvest data collection would in part, via map-referenced harvest locations, be applicable in addressing these needs.

The participants also recommended against the inclusion of socio-economic questions such as: social and economic value of the harvest; harvest usage; land use other than for hunting or fishing; and employment income. These data were seen as beyond the scope of this study, due to constraints of time, personnel and funding. It was also perceived as

imposing an excessive hunter response burden and an unacceptable invasion of privacy. It would be difficult, if not impossible to design questions to address all potential applications for this type of data and therefore not alleviate the need for separate studies which would in part duplicate information already collected.

The initial hunter interviews conducted during June and July 1987 benefitted the project in several ways.

The harvest information data base was substantially increased beyond what was originally anticipated or planned. Initially one years information, dating back to July 1986, was collected during June and July 1987. In addition to this, the December 1987 interviews, which were originally only to obtain one month of information, collected information back to July 1987. This later expansion of the study was undertaken in order to maintain a continuous record of harvest levels.

Having the study coordinator conduct the initial survey provided an opportunity for first hand testing of the proposed data collection methods and allowed for modification to these methods during the interviews. These modifications included: refinement of the hunter definition; determination of the most useful topographic map scale for recording harvest location information; data form design; expansion of the species list (see methods). Many problems that the field workers would have encountered were alleviated by changing methods prior to them having to carry out interviews, thereby thus avoiding potential data losses. This survey also gave the coordinator an appreciation of the actual effort involved in collecting these harvest statistics.

These interviews also provided a forum for informal discussions with individual hunters and gave the coordinator an opportunity to meet them. The coordinator was able to explain in detail and answer questions on the study rationale, information uses, and methodology with more people than attended the formal HTC meetings. Harvesters were able to see how and what information was being collected. There was more feed back from the hunters during these informal sessions than at the more structured public HTC or IGC meetings. As a function of these interviews individuals became an integral part of the study design process.

Application of harvest statistics to the negotiation of the Gulf compensation agreement functioned to stress the importance of obtaining this kind of information. This in turn enhanced the study, by providing an immediate and observable use for the data. It also served to elevate the profile of the study.

The organization of the locally based working group, and their participation along with the HTC directors, in hiring the field workers served to further emphasize that this research program was a joint venture. During these sessions working group members were also able to discuss harvest data, from the perspective of their discipline, with the HTC directors. Having the working group locally based assisted in the day to day operation and implementation of the study. The coordinator was able to readily confer with individuals on topics of interest to their discipline, update them on progress and activities, and obtain input to design changes and overall study conduct. Having these individuals on hand made it easier to deal with interim data requests by conferring with the interested agency or call members together at short notice for a decision that impacted on all the groups.

10.2 Field workers

Of the six field workers that assisted in the June - July 1987 interviews all applied for, and were hired to conduct, the monthly interviews. This was a great advantage, as they already had practical experience with data collection and the interview process. Training sessions focused on a review of the study design, the types of data being collected, the revised reporting method, and development of hunter interview lists.

Once interviews began field workers maintained regular contact with the study coordinator to discuss their progress and address problems they had. Completed data forms were reviewed by the study coordinator when they were returned to him. Where corrections were necessary they were addressed by contacting the field workers either by phone, actual visits by the coordinator to the community, or by bringing the field worker to the project office. Regular contact between the field workers and the study coordinator has maintained the field workers' interest in the study and addressed most problems as they occurred.

Staff continuity has been well maintained, with five of the original field workers still actively involved with the study. Field workers have settled into a routine and become more proficient at collecting and reporting harvest information. The have become familiar with the hunters and their activities and successfully arrange mutually convenient interview times. Hunter disturbance is reduced while maintaining a high level of cooperation and involvement with the study.

During December 1988 the Inuvik HTC questioned the accuracy of their community harvest data. After review and verification of the data with some hunters a new field worker was hired. The existing hunter list was more than doubled after consultations with the HTC directors and the new field worker. Their knowledge was also applied to note whether a hunter had resided in Inuvik during all or part of the study. An attempt was made to verify existing data with each individual hunter and make the appropriate corrections to the data set. Existing data were deleted if a hunter could not be contacted to verify his harvest record. Newly listed hunters were asked to recall their monthly harvest for 1988. During this time the field worker focused effort on verifying the existing data and revising the hunter list. As such it was not possible to interview a large portion of the hunter population. With the expansion of the hunter list it became apparent that Inuvik required a second field worker. Budgetary constraints did not permit this at that time.

Delays were experienced in replacement of the Tuktoyaktuk field worker during the Summer of 1988. Several field workers, including the HTC resource person, were hired on an interim basis until a full time person could be contracted to conduct the monthly interviews. A new field worker was hired and trained during the Fall of 1988. During this time the hunter list was significantly expanded, and an attempt made to collect missing information from all known harvesters for 1988.

10.3 Recall Aids

Topographic maps were successfully used to record harvest locations. Harvesters found them useful in recalling their harvest levels and appreciated the opportunity to actively participate in the interviews. The 1:250,000 map scale was generally acceptable and

adequate however there was some difficulty in locating areas in the Mackenzie Delta. When this problem arose field worker knowledge assisted the hunter, or other harvesters were consulted, to locate a particular area.

The Calendar was well received by the hunters and elevated the profile of the study. In theory harvesters were to use the calendar to record their harvest on a daily basis thus simplifying interviews and increasing the precision and accuracy of information. In practice few hunters regularly used the calendar in this fashion. Where it did occur, it was readily apparent in the detail of collected harvest data. Some hunters that were out hunting for extended periods of time, and were thus unavailable for the monthly interview, did record their information on the calendar. Visits to the hunting camps by personnel not associated with this study noted that the vast majority of hunters had the calendar visibly displayed in their camps. That hunters thought it important to take the calendar out with them indicates that they were at least thinking about the harvest study and inclined to mentally note their harvest. In one camp filling in the calendar became the responsibility of one member of the family. It was reported that during the Spring waterfowl hunt some hunters noted patterns of waterfowl movements after recording daily harvest information. They found this useful in deciding their own hunting pattern. Animal photographs with the local common names noted alleviated some nomenclature differences between the coordinator and harvesters, and also served to inform hunters which species were of interest to the study and for which information would be asked during interviews. For instance, in some communities, Scaups are commonly referred to as "golden eyes", Charr as "trout" and Cisco as "herring". This could have created erroneous data. The photos also assisted in the splitting of some groups of animals such as whitefish and loons, into more specific species identifications. Species identification problems did arise from time to time, but were generally alleviated by discussions with the coordinator the field worker and by consultations with individual hunters. Where species could not be specifically identified, broad groupings were recorded.

The field guide for birds was useful in identifying birds prior to the use of the calendar.

During the interviews the one page species list was used by both hunters and field workers to assist in recalling harvest data, and making sure that species (particularly incidental ones) were not missed.

10.4 Interviews

Hunters did not perceive the monthly interview schedule as an undue imposition on their time. This schedule reduced the likelihood of recall error and established a routine maintaining hunter contact, cooperation and presence of the study.

Over the course of the study hunters became more familiar with the information they would be asked to provide and made a greater effort to pay attention to their harvest levels. This was particularly true for species age and sex information, which became more detailed as the study progressed.

Field workers attempted to interview each hunter monthly. This was not always possible as hunters were often not available during the period when interviews were conducted. Data were accepted from a hunter even after extended periods of time. We felt that their estimates were better than those that could be estimated through extrapolation of existing data. During the initial interviews during June-July 1987 we noted that hunters would give the numbers for which they were sure, preferring to under report, rather than overestimate, their harvest level.

The numbers of hunters not interviewed largely reflects those hunters that could not be contacted. Out of the six communities only a few hunters have chosen not to participate in the study. Some hunters who initially elected not to participate have since started to provide harvest information. It is hoped that in the future, as the utility of harvest information is more fully realized, those not participating will elect to become part of the study.

As field workers were not previously familiar with coding biological information it took some time to become comfortable with and completely understand how the data form worked. The quality of coding improved with familiarity and changes in the data form.

Data forms used for monthly interviews (Figure 4) required the field worker to fill in the appropriate information. A species list was provided on a separate sheet and data were recorded for only those applicable to the harvester during a particular interview. This open ended approach worked well and allowed more diverse and detailed information to be coded on an individual sheet and also facilitated direct key punching of information without re-coding.

The first monthly data form (Figure 4) was confusing with respect to the harvest information dates. It was intended that the information date was the first day of the month that the data were being collected. The interview date was the date of the survey with information recorded for the month(s) previous to this date. This was confusing to the field workers so the data sheet was modified to allow for separate coding of the interview date and the specific dates that the information covered (Figure 5). Information dates were the first and last days of the month (or months) which were applicable to the reported data.

During the initial surveys in June and July 1987 hunters were asked to recall their harvest for the previous year from the date of the interview. During the first monthly interviews hunters were asked to recall their harvest on a monthly basis from July to the end of November 1987. Where a hunter had previously been interviewed they were asked to recall their harvest from the date of the first interview. This was undertaken to avoid duplicate counting of harvested wildlife in July 1987. This process was not entirely successful. Hunters found it difficult to recall their harvest from a specific date within a month. Data were also not always recorded with these dates in mind. Consequently some overlap of information resulted and it is not always possible to discriminate such overlaps.

In Aklavik information was initially reported from July 1987 to the date of the interview in December. Subsequent interviews reported the harvest from the last interview date to the current interview date. Although this is the best way of collecting very recent harvest records (avoiding possible recall errors by waiting a month to report information), it resulted in several points of confusion. It was difficult for the hunter to recall his harvest from a specific day within a month (particularly when recalling for periods greater than one month). It was easier to recall the harvest for a particular month. It was also difficult and confusing for the coordinator and the field worker to track the record of individual hunters

as the harvest information dates varied between individual hunters and between months. A great deal of discussion between the hunter, field worker, and the study coordinator was required to clarify some of the data. This placed an undue response burden on the hunters in that they were asked about the same information more than once. This system was abandoned during the later part of 1988 and information has since been recorded on a monthly basis from the first day to the last day of a particular month.

Holman information for July 1987 to October 1987 and occasionally for the other communities was not reported on a monthly basis but for the whole time frame. Subsequent surveys were reported primarily on a monthly basis. When field workers were back tracking information for more than one month, harvest dates occasionally extended between months.

Where a data form was incompletely filled out, it was returned to the field worker who then consulted with the harvester, to complete the information. This type of correction and intrusion on the hunters time was required less frequently as the field worker became more familiar with the data form and recording information.

10.5 Aklavik

Aklavik hunters reported the harvested of fifty five (55) species of wildlife (Table 2) including: fish (12 species), marine mammals (5), terrestrial mammals (17), and birds (21). Species harvest results are summarized in Table 2. Monthly harvest results are presented graphically in Figures 6 to 27, with the associated numbers presented in Appendices 2 to 5. The known hunter population, survey coverage, number of hunters that harvested during each survey period along with the number participating in the harvest of each species are presented in Appendices 6 to 9.

On average 97.5% of the known hunter population was interviewed, over the course of the monthly surveys from July 1987 to December 1988 (Appendix 6).

10.5.1 Fish

The major fish species harvested were Arctic charr, broad whitefish, lake whitefish, cisco, burbot, inconnu, and northern pike (Table 2).

Monthly data indicates that fish were harvested throughout the year, except during April (Figure 6 to 10; Appendix 2). The principal fishing season extended from June through November, with peak harvesting months varying with species and year. Harvested numbers declined during December, with only one or two harvesters taking low numbers of fish during January to May (Appendix 6). With the exception of Burbot (harvested in October) the July to December 1987 monthly harvest levels of fish were higher than those reported for the same period in 1988. It is difficult to compare these harvest levels with the July 1986 to June 1987 data as less than half of the later known hunter population was surveyed. As such, July 1986 to June 1987 harvested numbers should be considered as minimum values.

Arctic Charr were harvested from June to October with the majority of fish taken during August and September (Figure 7). Although data specific to June 1987 were not collected, peak harvesting months for Cisco were July, August, and October during both 1987 and 1988.

Some of the reported whitefish harvest was not identified to species making it difficult to establish actual species specific monthly harvest levels (Figure 6). Large numbers

of whitefish were harvested from July to November during both 1987 and 1988. Monthly records in 1988 indicate that for Broad Whitefish, harvesting began in May with 34 fish taken by two hunters (Appendix 2,6). As the season progressed the number of hunters harvesting and the number of fish taken increased. These numbers peaked during August and September in 1987 and August in 1988. The season concluded in December, during both 1987 and 1988 with only a few fish harvested by a few hunters during this month. Lake Whitefish were harvested from June to November in 1988 with the season extending as late as December in 1987. Peak harvesting took place during September and October in 1987 and August and October in 1988.

For Burbot, Inconnu, and Northern Pike monthly harvesting patterns differed between 1987 and 1988 (Figure 8; Appendix 6). In 1987, Burbot monthly harvest levels increased from July to November and declined in December (Figure 8). In 1988 very few fish were harvested during months other than October and November. However, during both years very few hunters harvested Burbot in months other than October and November (Appendix 6). Fewer hunters harvested Burbot during 1988 than in 1987.

Inconnu harvesting peaked during August in both 1987 and 1988 (Figure 8). In 1987 the majority of harvesting took place during August, September, and October where, as in 1988, this took place during July, August, and October. On a monthly basis fewer hunters harvested Inconnu in 1988 than 1987 (Appendix 6). A greater number of hunters harvested more Northern Pike in 1987 than 1988 (Appendix 6). The harvesting pattern was similar except for the peak month of harvesting. Peak harvesting took place in September during 1987 and October in 1988 (Figure 8).

10.5.2 Mammals

Marine mammal harvest included Ringed Seal, Bearded Seal, Beluga, Polar Bear, and Walrus (Table 2). Seals were only occasionally harvested, in low numbers (Figure 11). Beluga were the principal marine mammal species harvested (Table 2). The Beluga season extends from June to August (Figure 12), with peak harvesting during July. The annual beluga harvest has declined from 1986 to 1988. Polar bear were harvested during March and April of 1988, but primarily during April (Figure 14). One Walrus was harvested (at

Komakuk beach, Yukon) during July 1986 to June 1987 (Figure 12). Walrus are rarely seen by Aklavik hunters and are harvested on an opportunistic basis.

Caribou were harvested during all months of the year (Figure 13). Peak harvesting took place during October and November. Harvesting during these months also involved more hunters than during other months (Appendix 8). In 1988 the lowest harvesting levels were during February, May, July, and September with fewer hunters harvesting Caribou than at other times of the year.

Hunters provided sex information for 88% of the reported Caribou harvest during July 1987 to December 1988 (Appendix 4). Age class information was obtained for 78% of the total Caribou harvest during July 1987 to December 1988. For Caribou of known sex, from July 1987 to June 1988, 66% were female and 34% were male. For Caribou of known age class 85% were adults, 14% were juveniles, and 1% were young of the year. Similarly, for Caribou where both sex and age were reported 62% were adult females and 26% were adult males.

Moose were occasionally harvested and in low numbers (Figure 13). Moose were harvested during all months except January, February, May, and October to December of 1988.

Black and grizzly bear were harvested in low numbers from late Spring to the Fall (Figure 14).

Dall's Sheep were harvested during August (1 harvested), September (6), and October (1) in 1987, and January (1) in 1988 (Figure 13).

Muskrat was the principal furbearing species harvested by Aklavik hunters and trappers (Table 2). In 1988, the harvest season was from March to June with the majority of muskrats taken during May (Figure 18). More hunters harvested muskrat during May than during the rest of the season (Appendix 8). Although the same number of hunters reported harvesting muskrat in 1987 and 1988 fewer were taken in 1988.

Other furbearers were primarily harvested during November to February (Figure 15 to 18). Some of the harvest occurred during March, April, and October. Fox, principally red fox, and mink were taken in the largest numbers (Figure 16,17).

Arctic hare were harvested during all months except in July 1987 and July and August 1988 (Figure 19). The largest monthly harvests occurred during September, November and December 1987 and September 1988.

10.5.3 Birds

Aklavik hunters harvested of four species of Geese including white-fronted, Canada, snow, and brant geese (Table 2). These were harvested primarily during May, June, and September (Figure 20,21). Small numbers were harvested during July and August 1987 and 1988, as well as in October 1987. White-fronted and snow geese were the principal species harvested.

Hunters were reluctant to report the harvest of swans, as such, these harvest data should be viewed as minimum harvest levels. Harvesting occurred from May through to September, but principally during May and September (Figure 21).

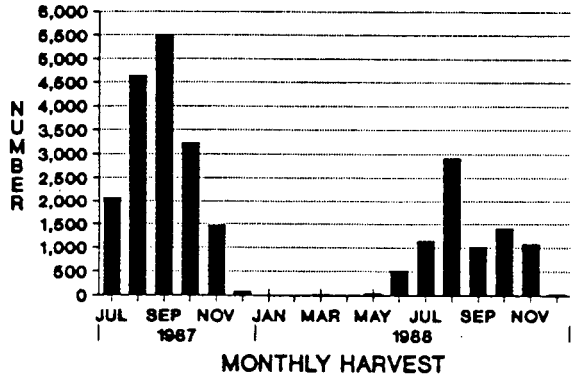
Aklavik hunters harvested twelve species of ducks (Table 2). The most important ducks harvested were mallards, oldsquaw, northern pintail, scaup, scoter, and american widgeon (Table 2). Ducks were harvested during May through October (Figure 22 to 26). The major harvest took place during September in 1987 and during May and June, and to a lesser degree during September in 1988.

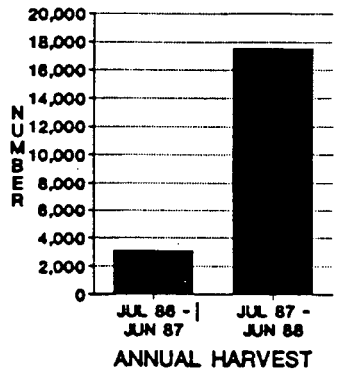
Ptarmigan were harvested during all months except February and November of 1988 (Figure 27). Peak harvest months were September, November, and December in 1987, and April and September during 1988. Comparable monthly data for 1987 and 1988 indicate that harvest levels during 1988 have declined as have the number of hunters harvesting ptarmigan (Appendix 9).

ANIMAL NAME	HARVESTING PERIOD AND NUMBER HARVESTED JULY 1986 TO JUNE 1987	JULY 1987 TO DECEMBER 1987	1988
FISH			
Arctic Charr - anadromous	1822	1387	651
Broad Whitefish	3060	16980	8158
Lake Whitefish	1100	6875	3134
Whitefish spp.	5321	392	858
Cisco	7395	4625	1884
Pacific Herring	15		
Saffron Cod			1
Lake Trout	12	10	
Burbot	3199	4653	2917
Inconnu	2775	3368	1667
Northern Pike	2937	4639	1537
Arctic Grayling	642	28	1
Chum Salmon		105	2
Fish spp.			350
MAMMALS			
Ringed Seal	6		
Bearded Seal	1	1	
Seal spp.			2
Beluga	30	27	14
Walrus	1		
Caribou	670	784	1214
Moose	17	17	15
Dall's Sheep	3	8	1
Polar Bear	*		5
Grizzly Bear	6	1	2
American Black Bear		1	2
Wolf	5	11	12
Wolverine	26	3	9
Lynx	6	5	7
Arctic Fox-white	6	8	29
Red Fox -red	129	69	103
-cross	75	65	116
-silver	12	12	
Fox spp.		1	18
Total Fox Harvest	222	154	288
Ermine	5	41	25
American Marten		7	
American Mink	258	103	87
Muskrat	25210		17721
American Beaver	2		
River Otter			1
Hare spp.	1599	1069	414
BIRDS			
Greater White-fronted Goose	267	162	256
Canada Goose	46	26	8
Snow Goose	200	143	185
Brant	79	1	
Goose spp.		2	6
Swan	15	17	12
Arctic Loon			2
Common Loon	4		
Canvasback	2	15	10
Eider			5
Gadwall	3	21	
Goldeneye	11		12
Green-winged Teal		18	4
Mallard	259	220	211
Merganser		1	
Oldsquaw	80	38	36
Northern Pintail	156	158	54
Scaup	33	93	76
Scoter	364	307	127
Northern Shoveler	2	15	2
American Widgeon	189	220	184
Duck spp.			5
Ptarmigan	831	768	299

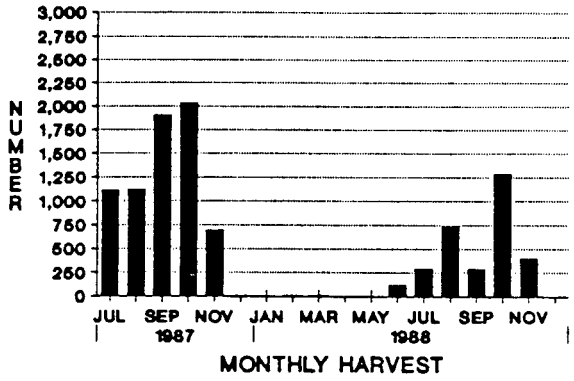
Table 2: Reported fish and wildlife harvest by hunters from Aklavik, N.W.T., from July 1986 to December 1988.
* = no data were collected for July 1986 to June 1987

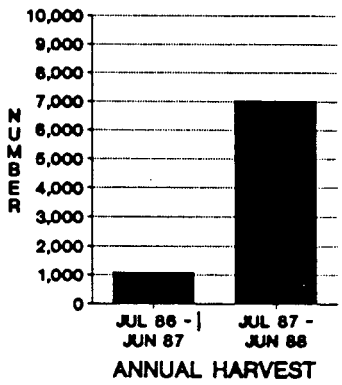
Broad Whitefish



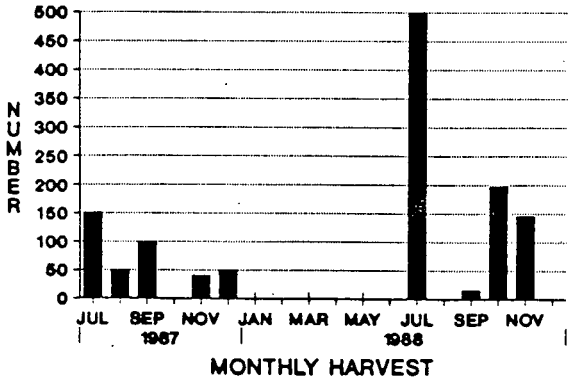


Lake Whitefish





Whitefish spp.



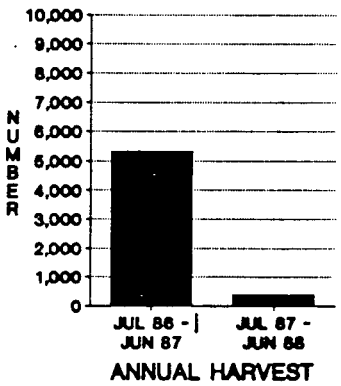
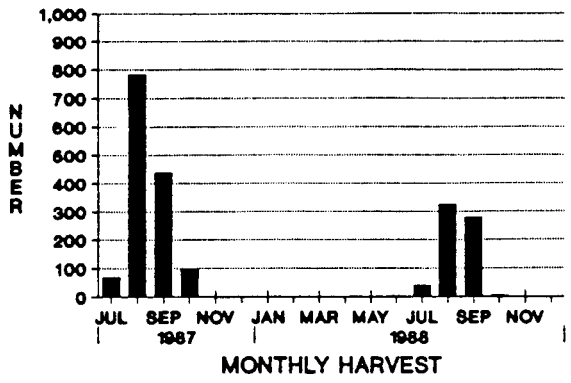
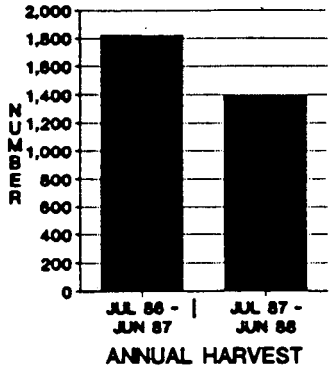


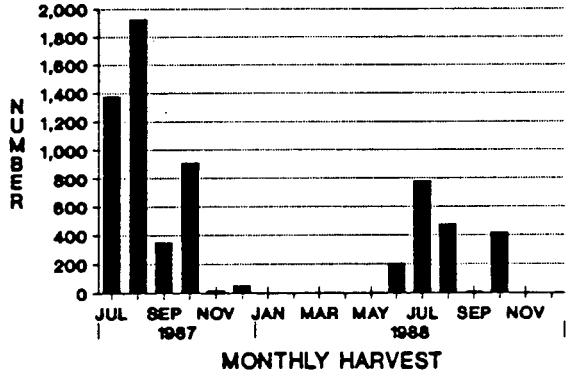
Figure 6: Monthly and annual harvests of Broad Whitefish, Lake Whitefish, and Whitefish spp., reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

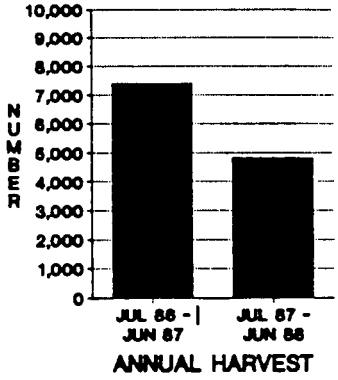
Arctic Charr (anadromous)



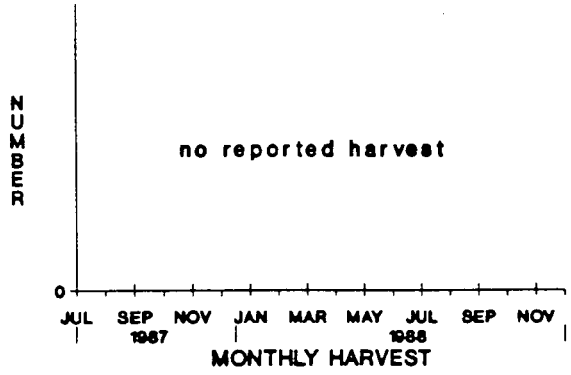


Cisco





Pacific Herring



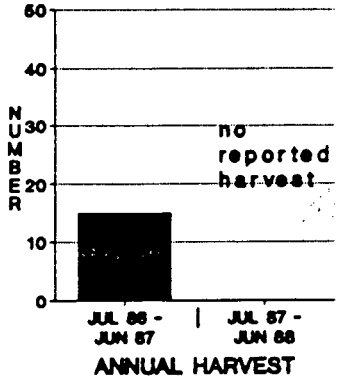
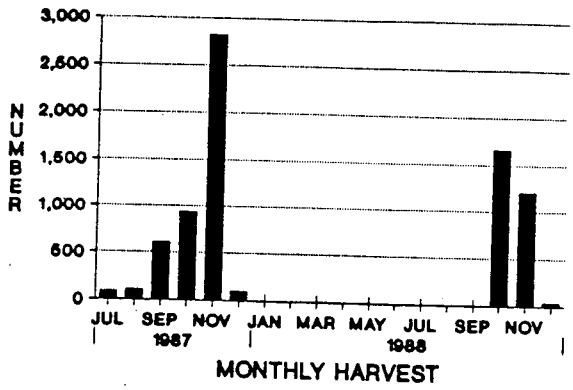
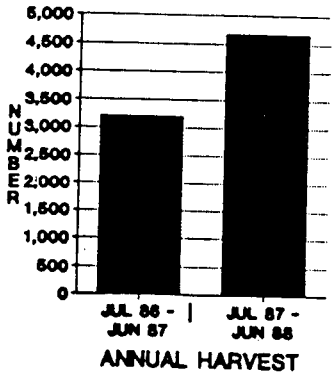


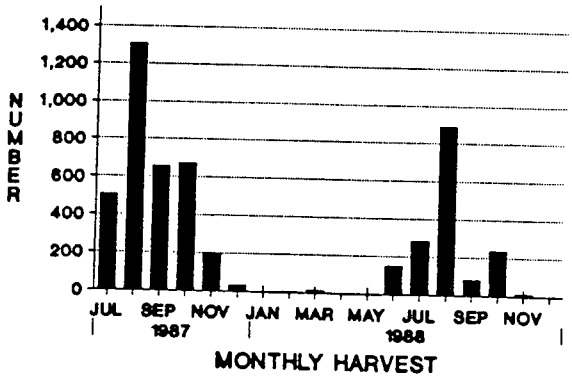
Figure 7: Monthly and annual harvests of Arctic Charr, Cisco, and Pacific Herring, reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

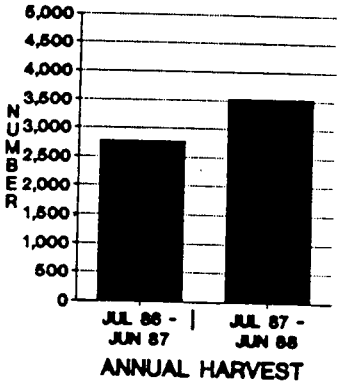
Burbot



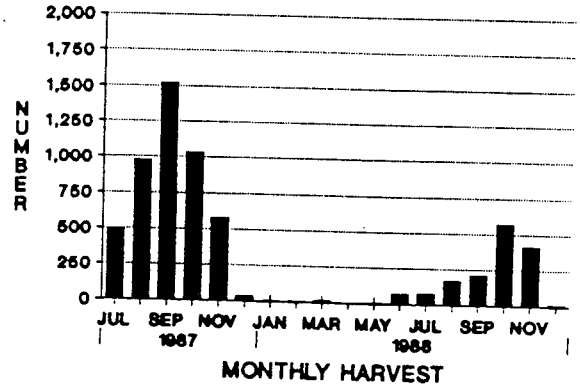


Inconnu





Northern Pike



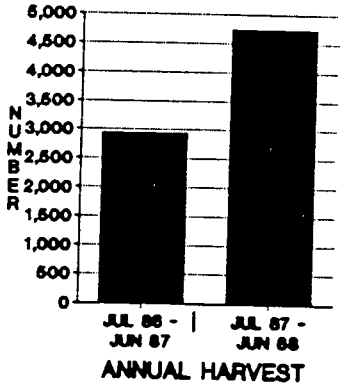
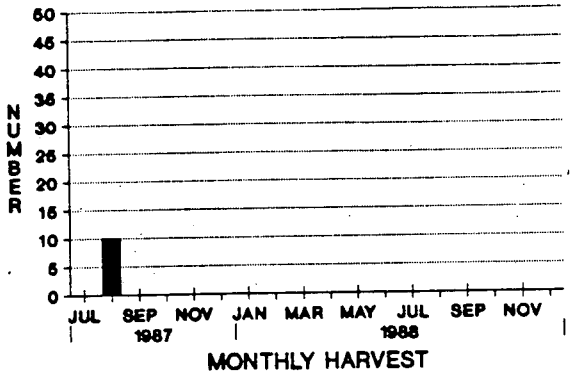
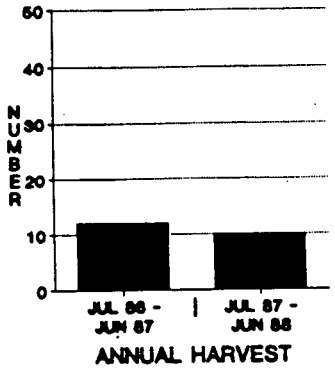


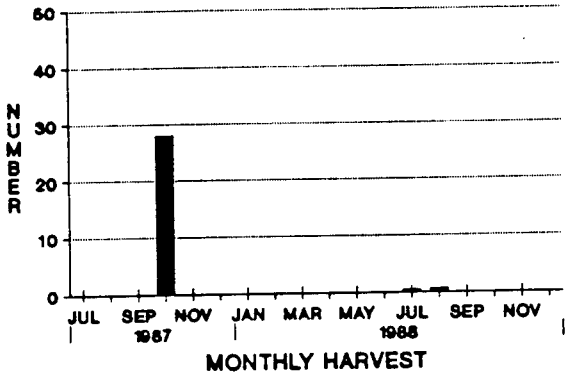
Figure 8: Monthly and annual harvests of Burbot, Inconnu, and Northern Pike, reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

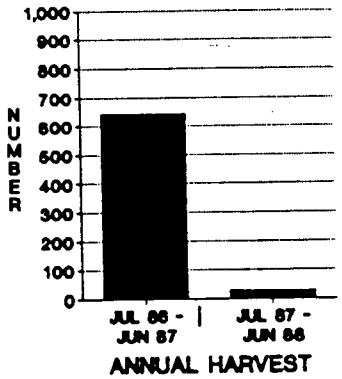
Lake Trout



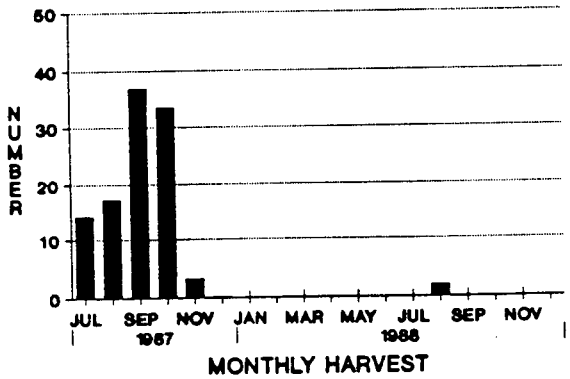


Arctic Grayling





Chum Salmon



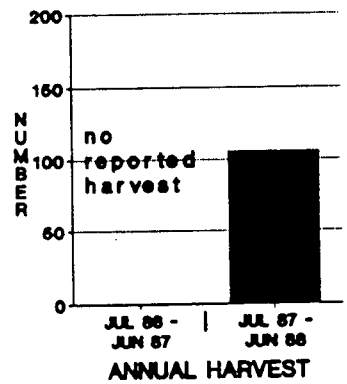
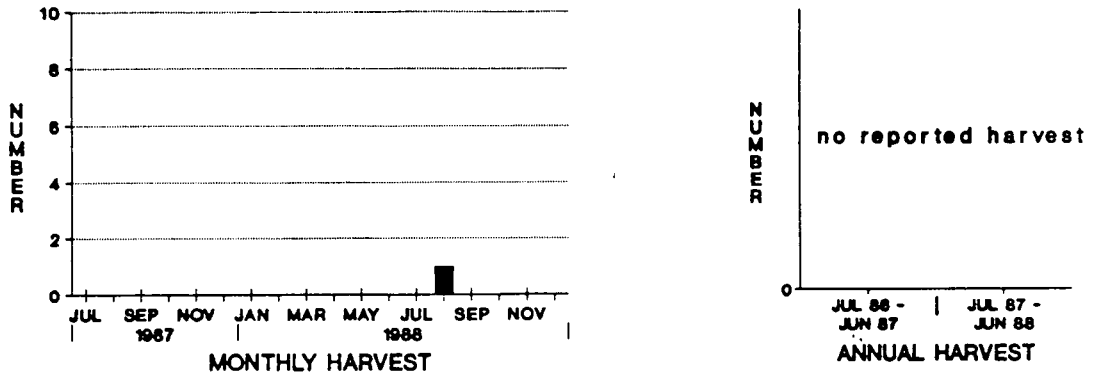


Figure 9: Monthly and annual harvests of Lake Trout, Arctic Grayling, and Chum Salmon, reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

Saffron Cod



Fish spp.

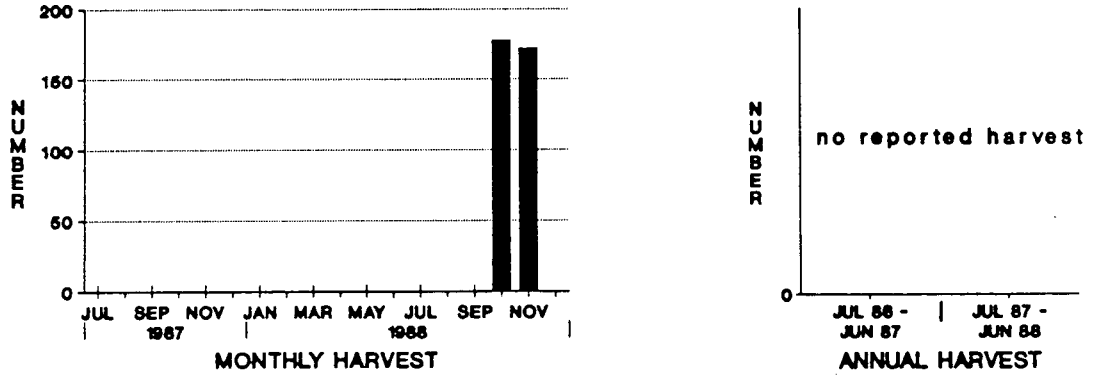
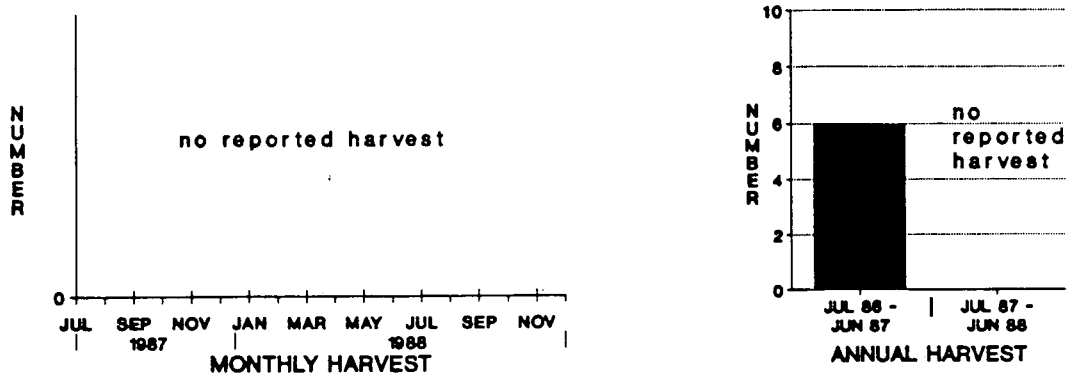
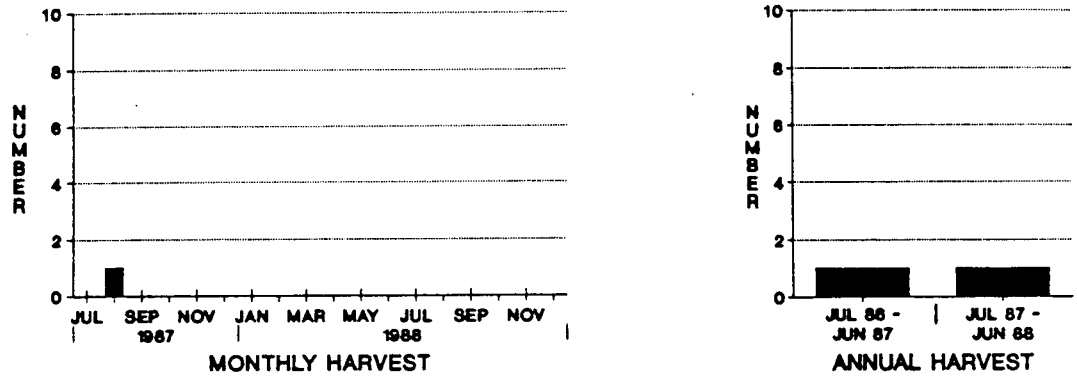


Figure 10: Monthly and annual harvests of Saffron Cod and Fish spp., reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

Ringed Seal



Bearded Seal



Seal spp.

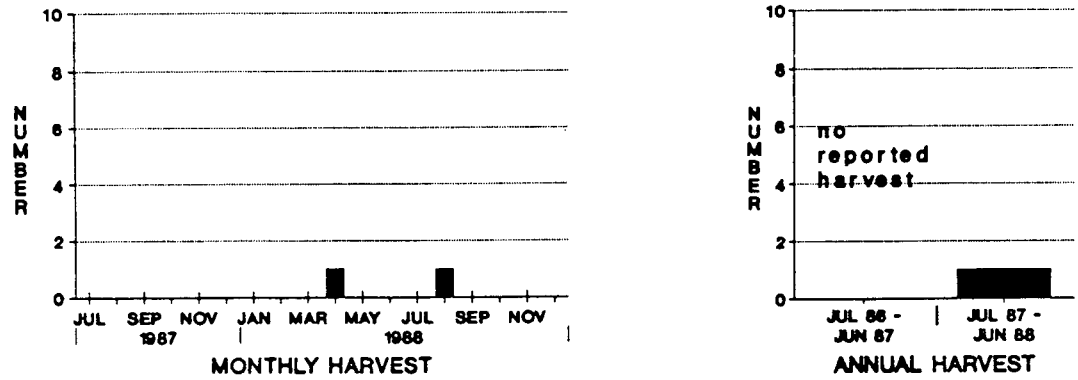


Figure 11: Monthly and annual harvests of Ringed Seal, Bearded Seal, and Seal spp., reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

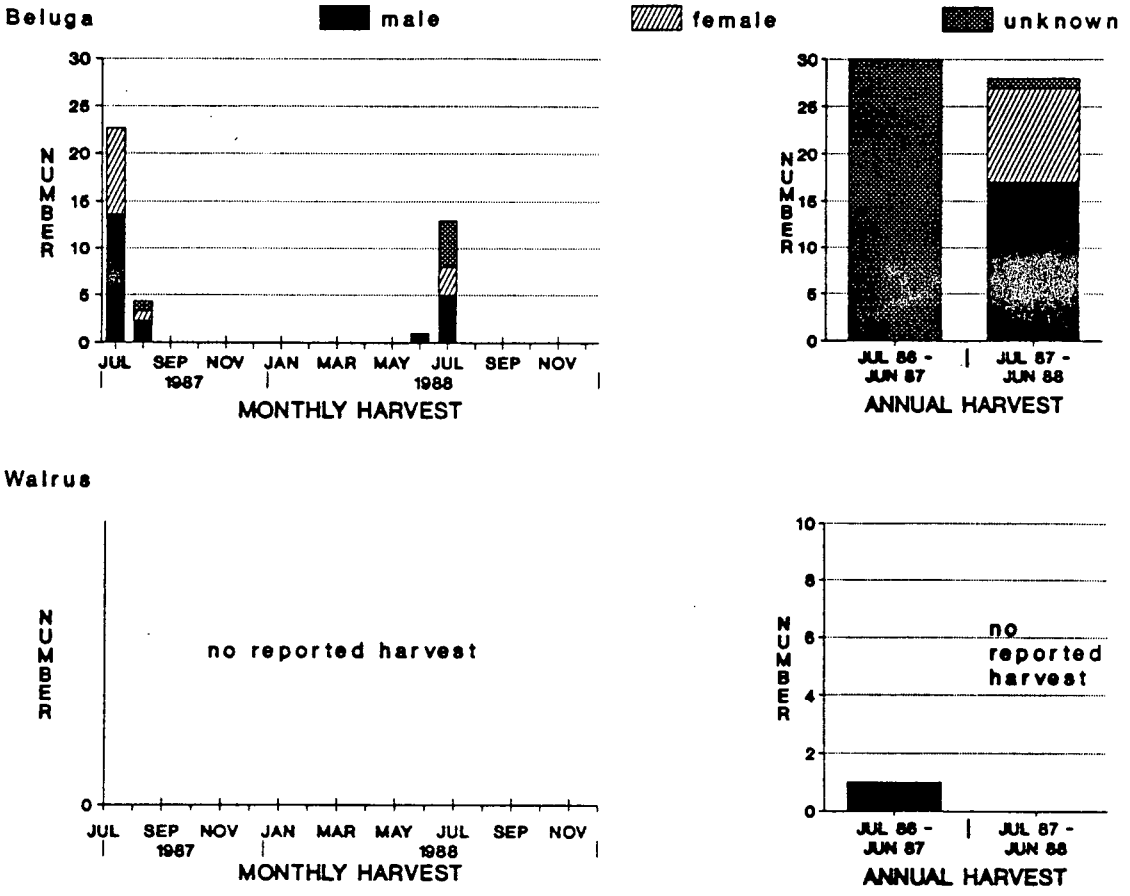


Figure 12: Monthly and annual harvests of Beluga and Walrus, reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

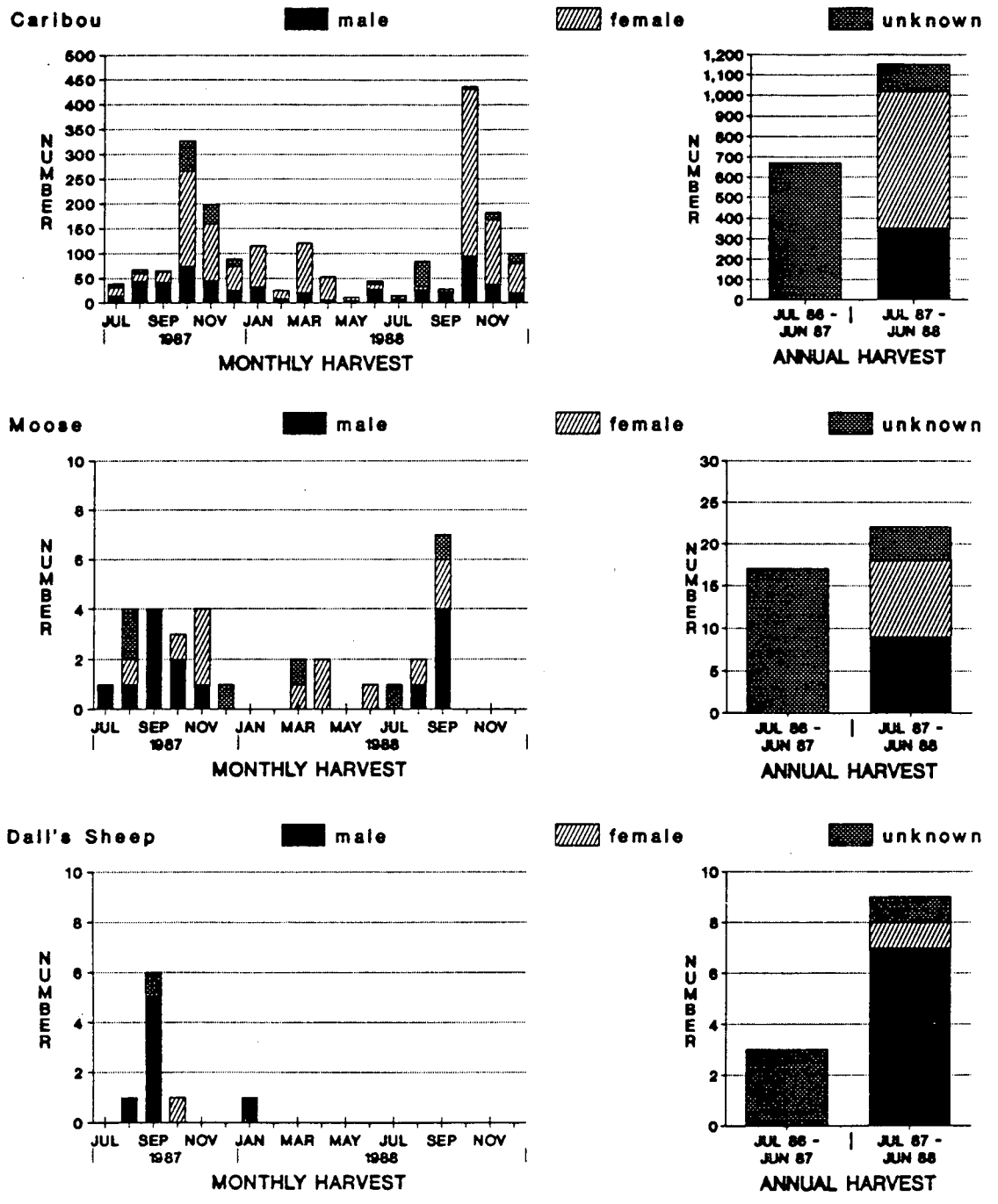


Figure 13: Monthly and annual harvests of Caribou, Moose, and Dall's Sheep, reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

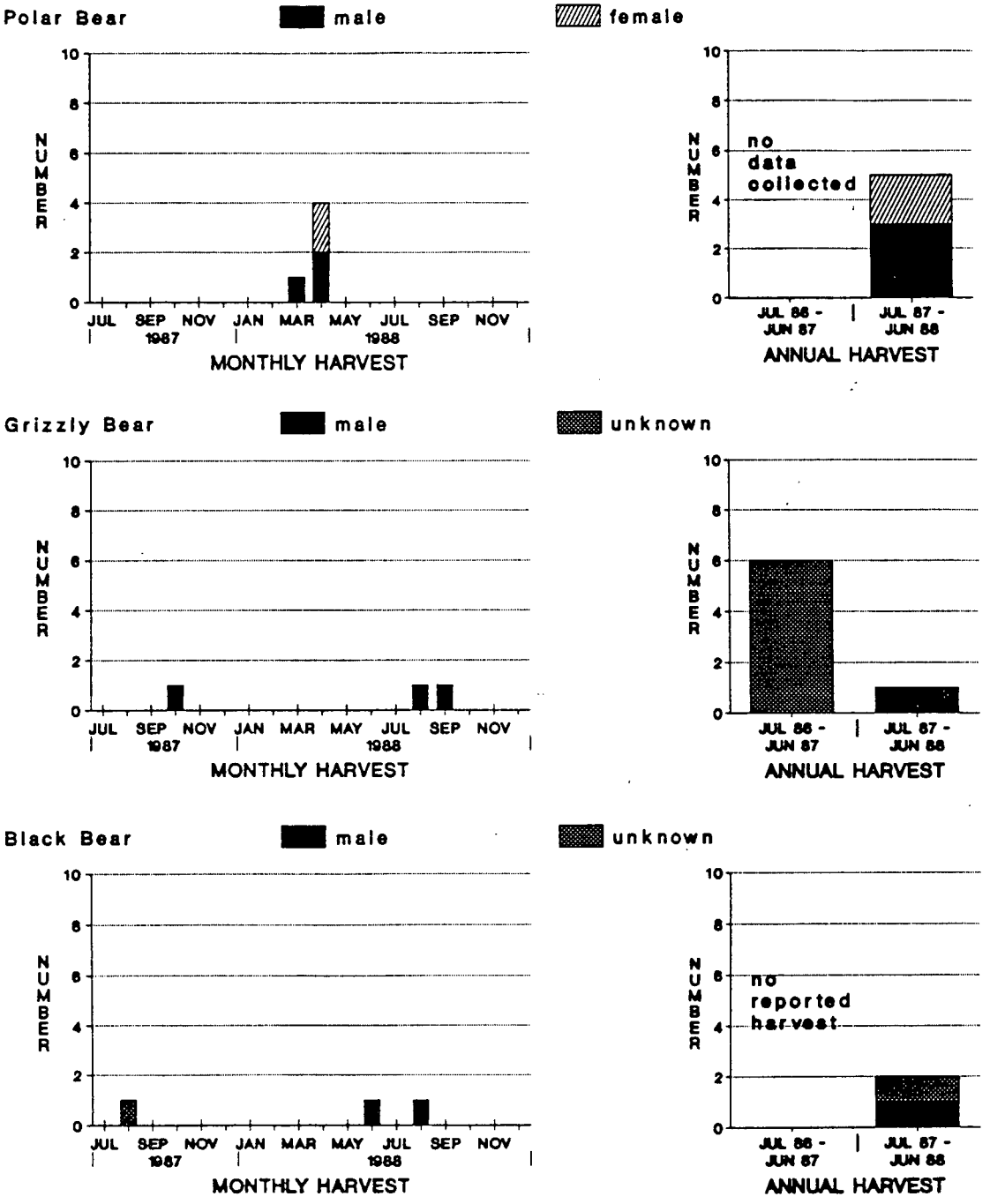


Figure 14: Monthly and annual harvests of Polar Bear, Grizzly Bear, and Black Bear reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

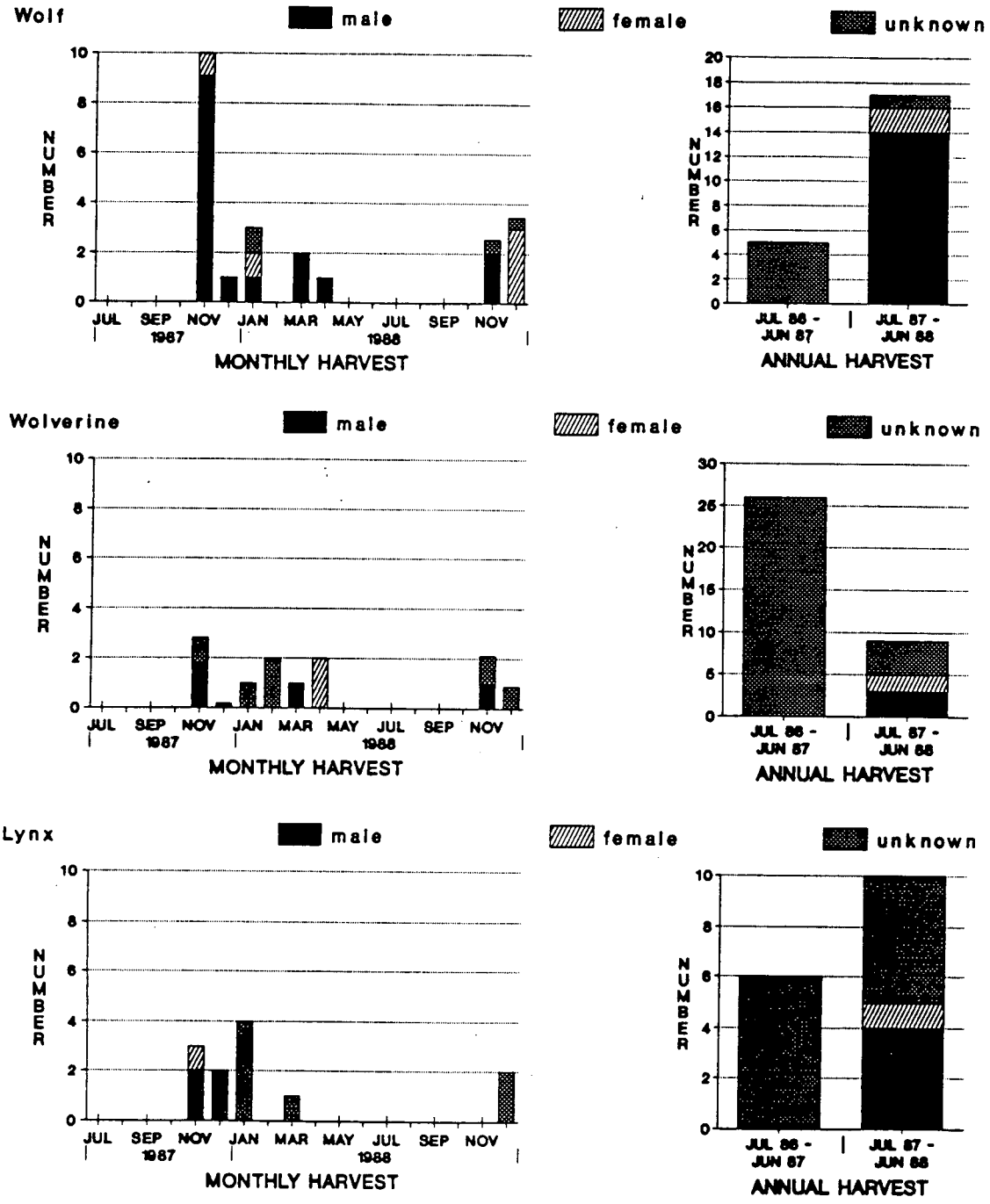


Figure 15: Monthly and annual harvests of Wolf, Wolverine, and Lynx, reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

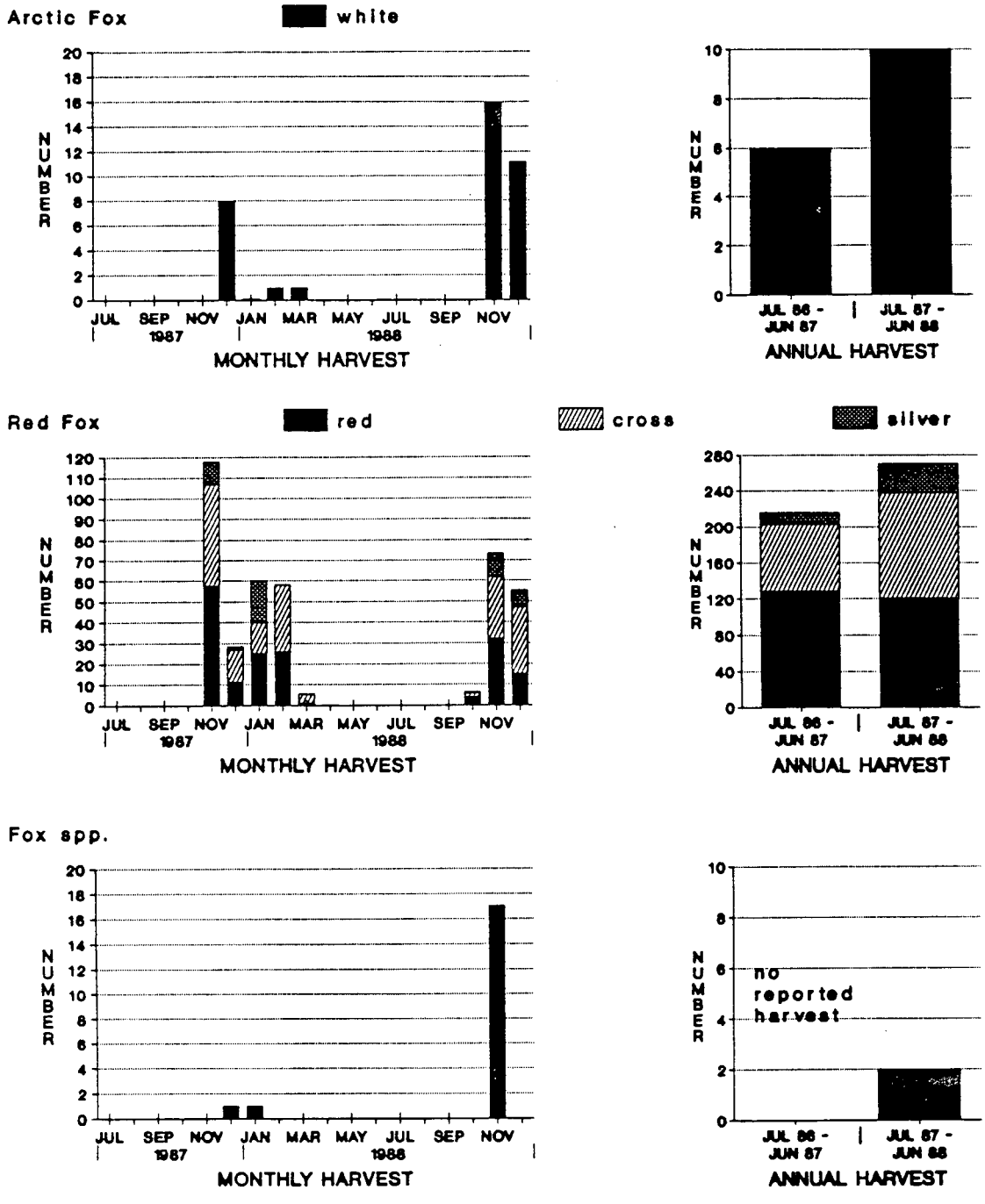
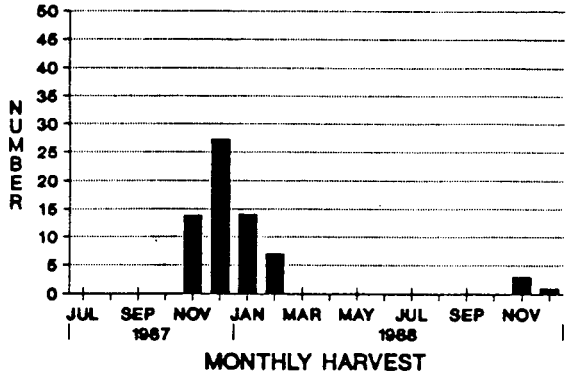
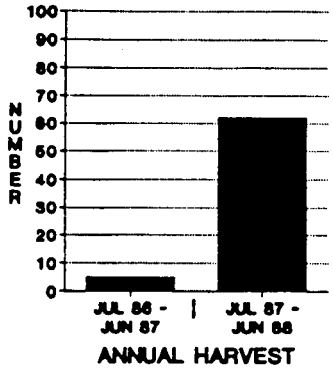


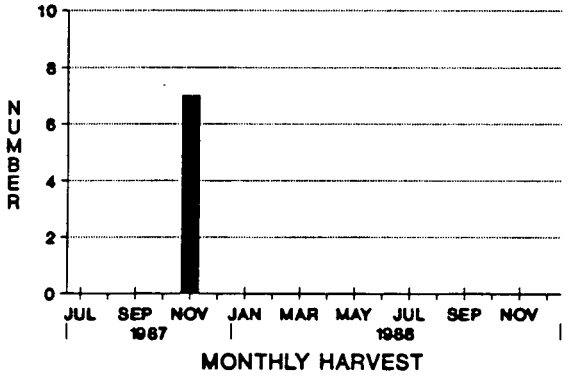
Figure 16: Monthly and annual harvests of Arctic Fox, Red Fox, and Fox spp., reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

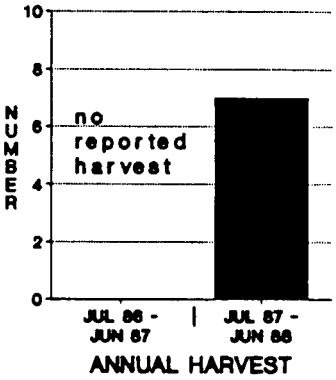
Ermine



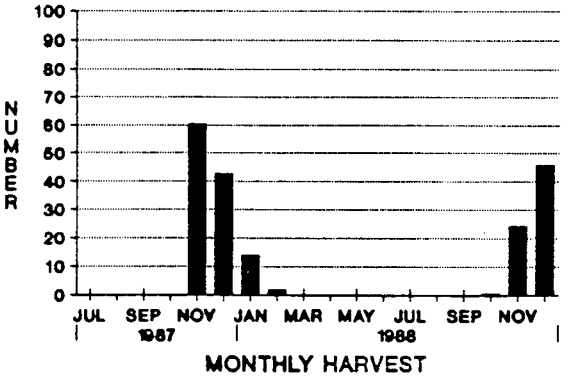


American Marten





American Mink



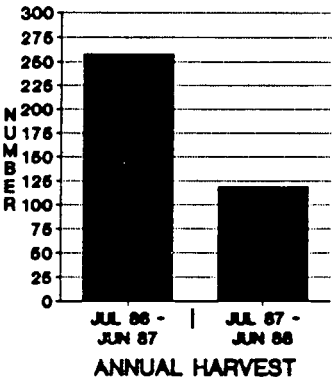
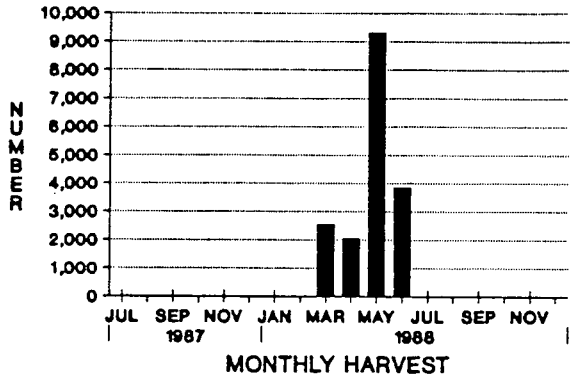
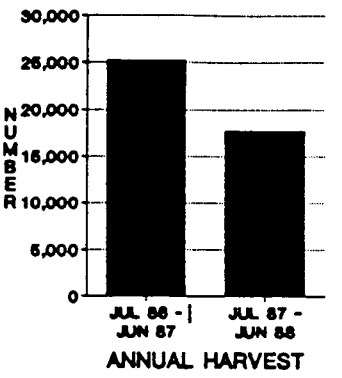


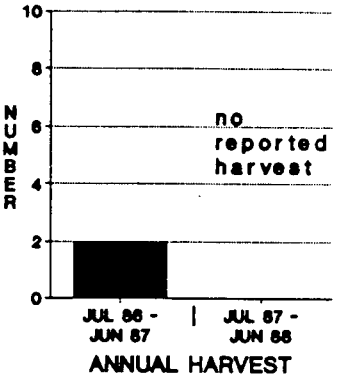
Figure 17: Monthly and annual harvests of Ermine, American Marten, and American Mink, reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

Muskrat

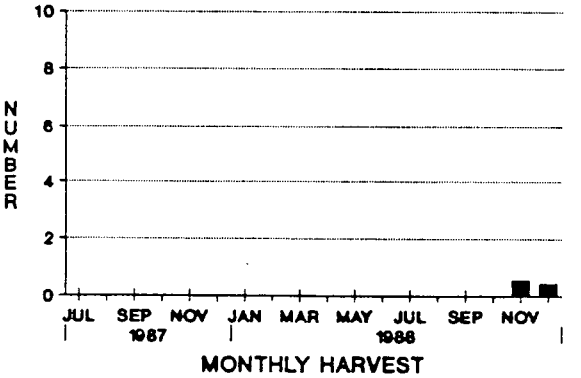




American Beaver



River Otter



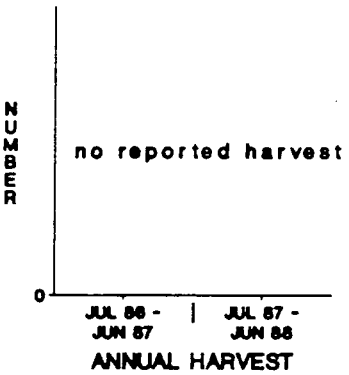
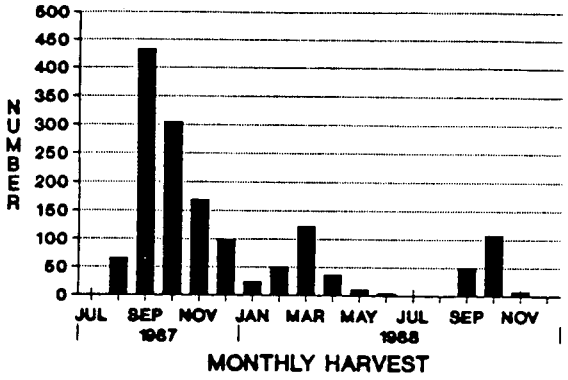


Figure 18: Monthly and annual harvests of Muskrat, American Beaver, and River Otter, reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

Hare spp.



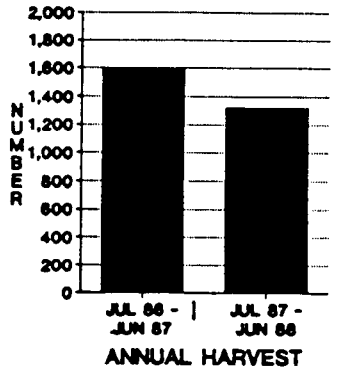
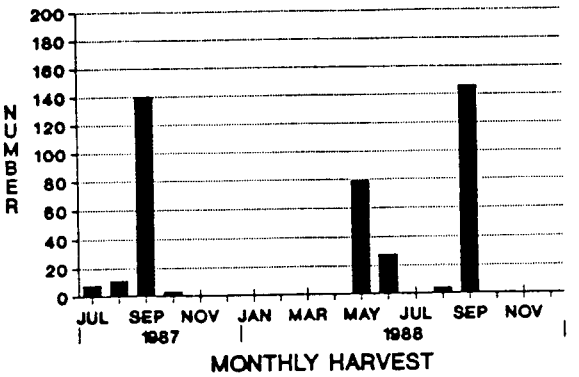
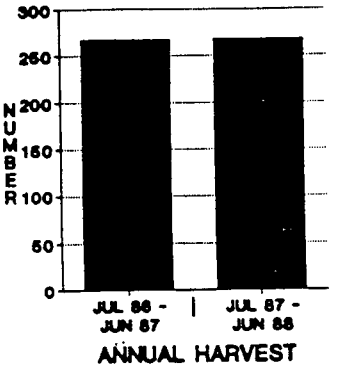


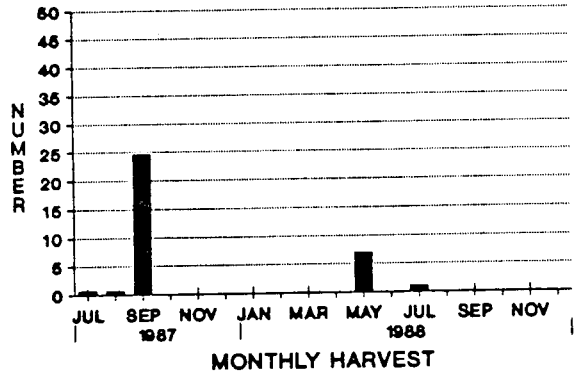
Figure 19: Monthly and annual harvests of Hare spp., reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

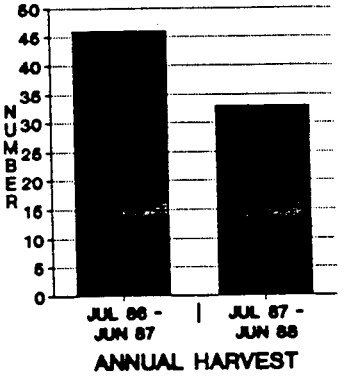
White-fronted Goose



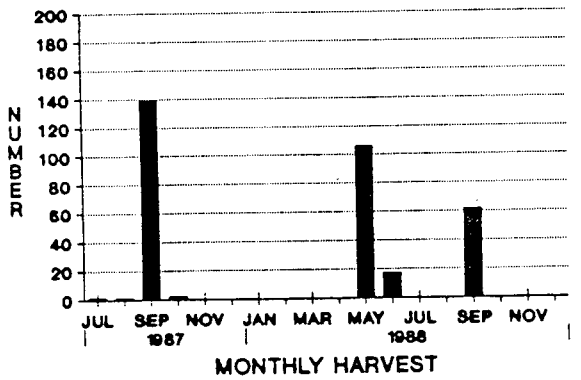


Canada Goose





Snow Goose



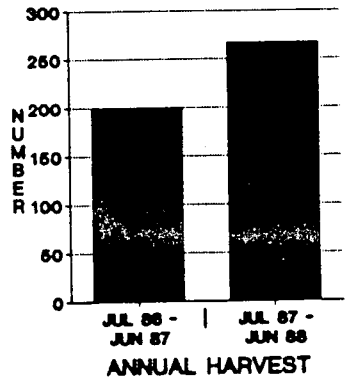
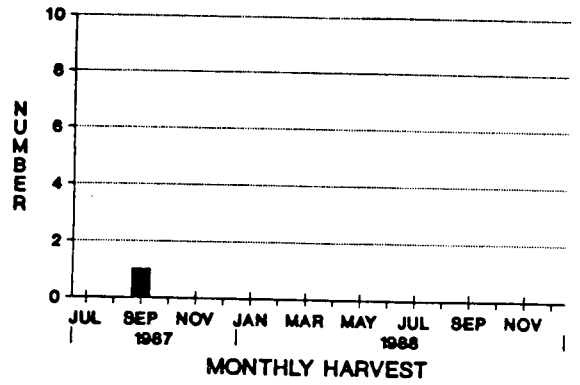
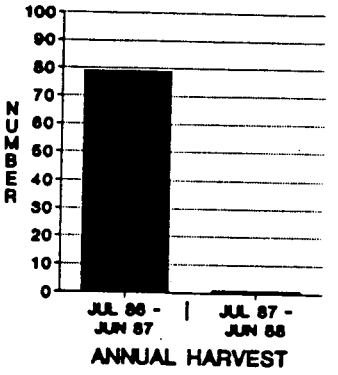


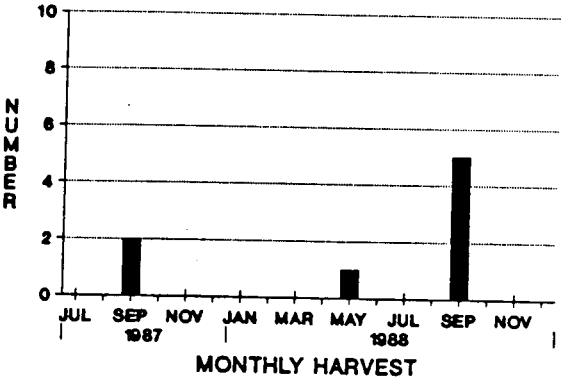
Figure 20: Monthly and annual harvests of White-fronted Goose, Canada Goose, and Snow Goose, reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

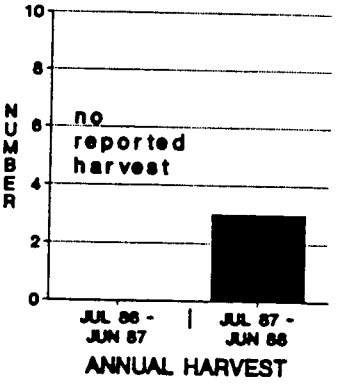
Brant



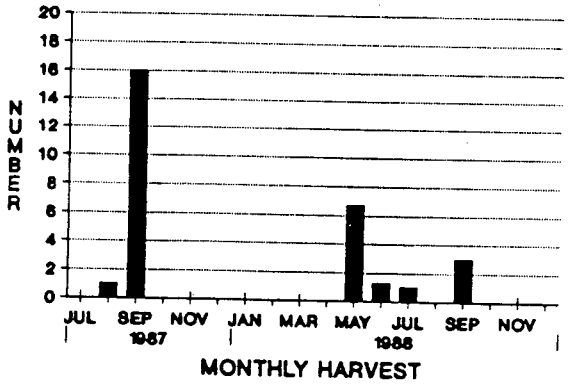


Goose spp.





Swan



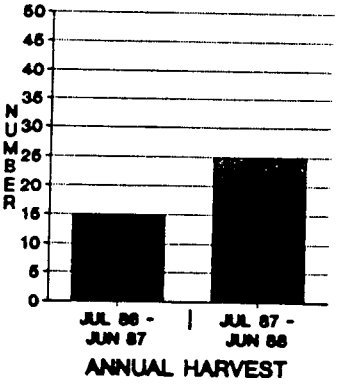


Figure 21: Monthly and annual harvests of Brant, Goose spp., and Swan, reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

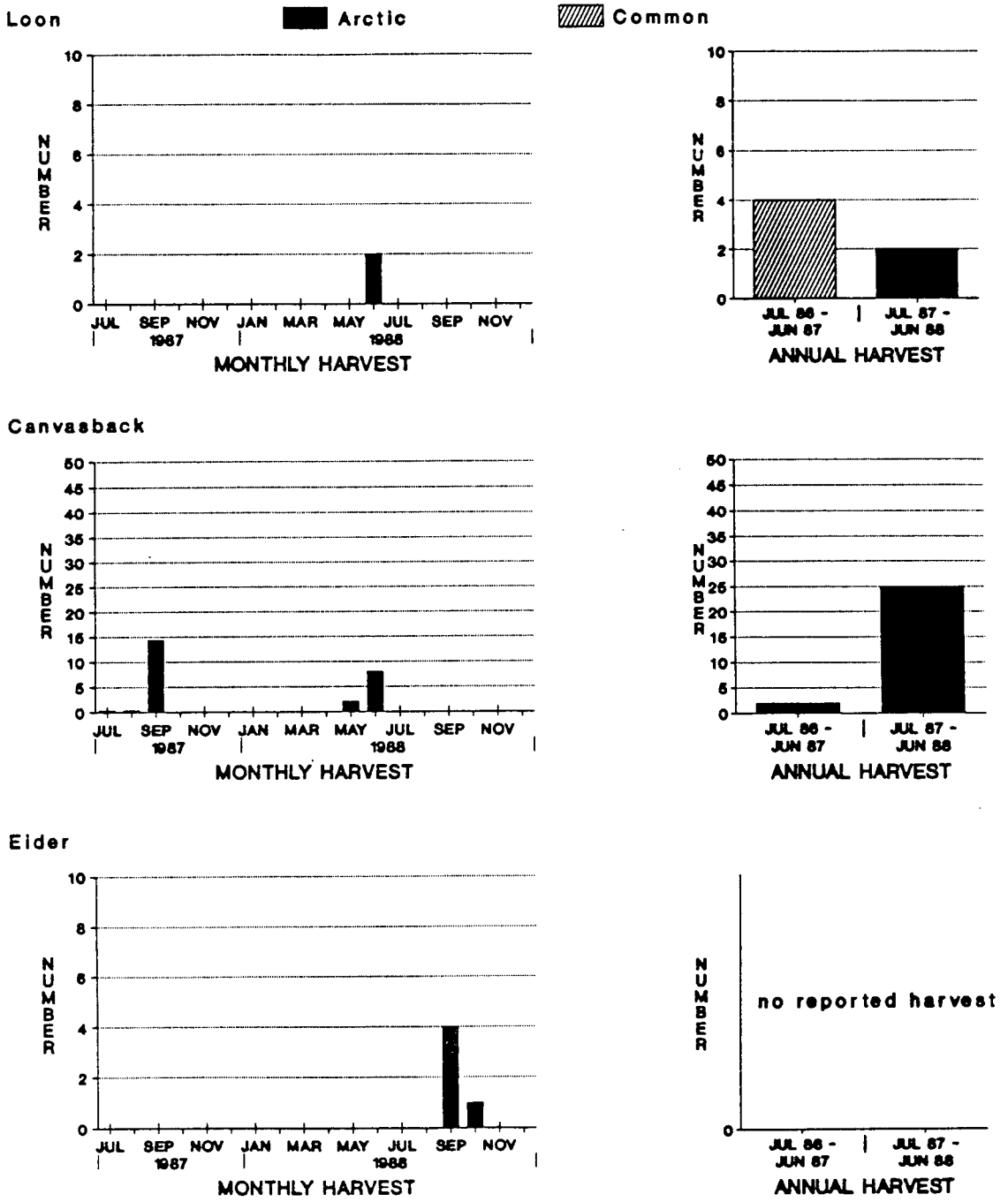
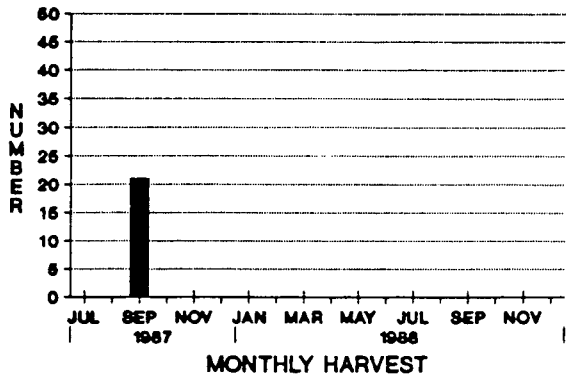
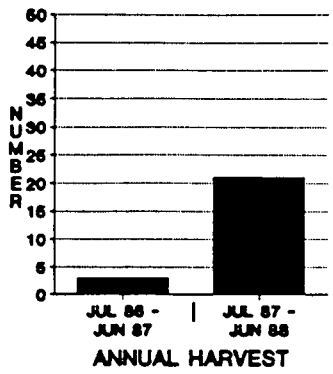


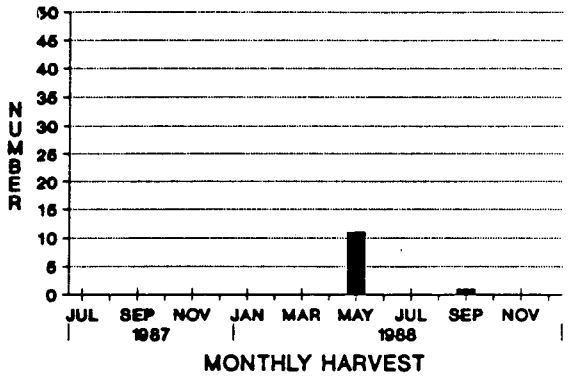
Figure 22: Monthly and annual harvests of Loon, Canvasback, and Eider, reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

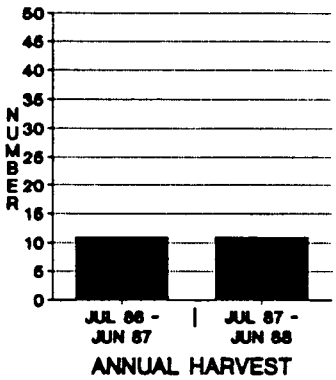
Gadwall



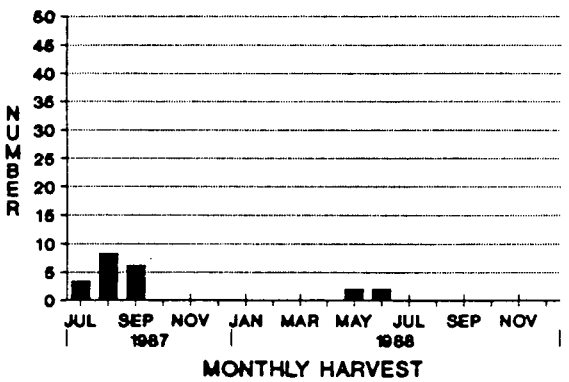


Goldeneye





Green-winged Teal



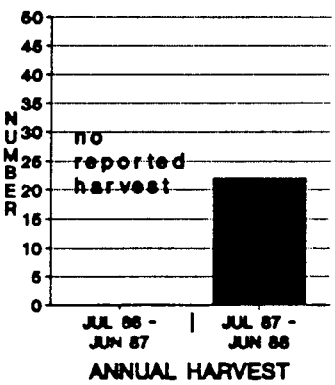


Figure 23: Monthly and annual harvests of Gadwall, Goldeneye, and Green-winged Teal, reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

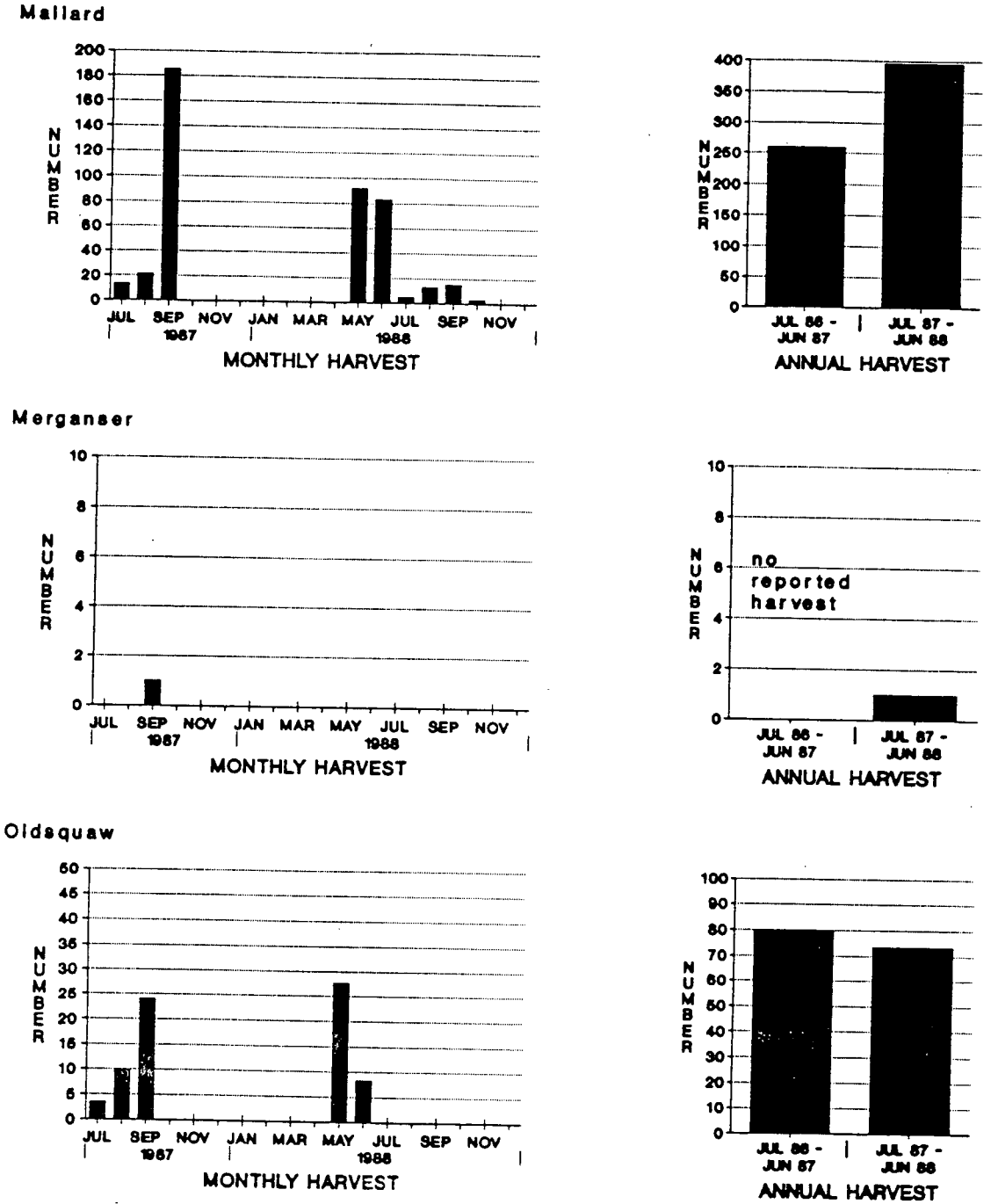
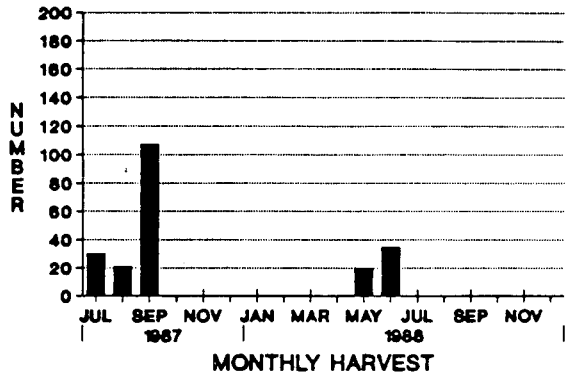
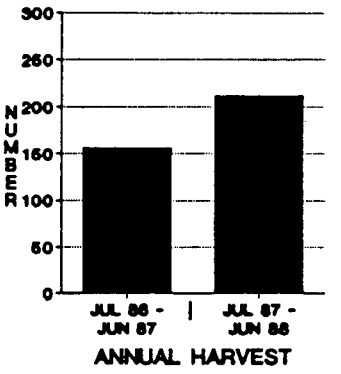


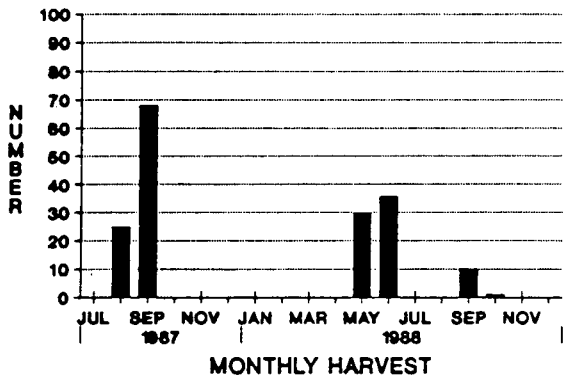
Figure 24: Monthly and annual harvests of Mallard, Merganser, and Oldsquaw, reported by Aklavik hunters, for the period July 1986 to December 1988.

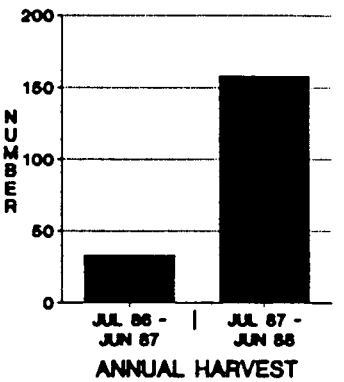
Northern Pintail



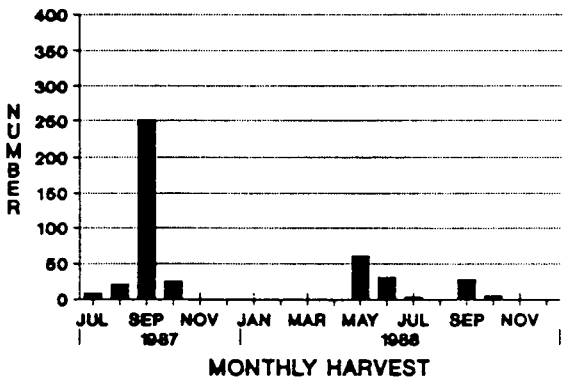


Scaup





Scoter



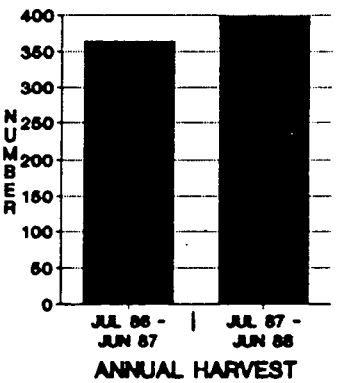
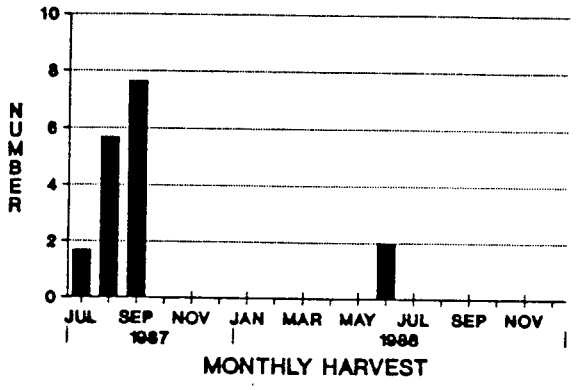
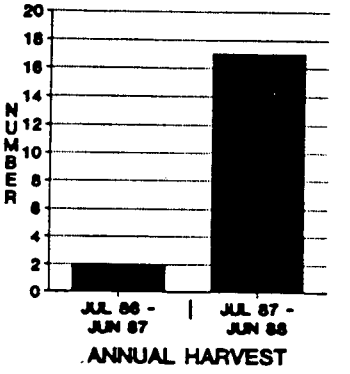


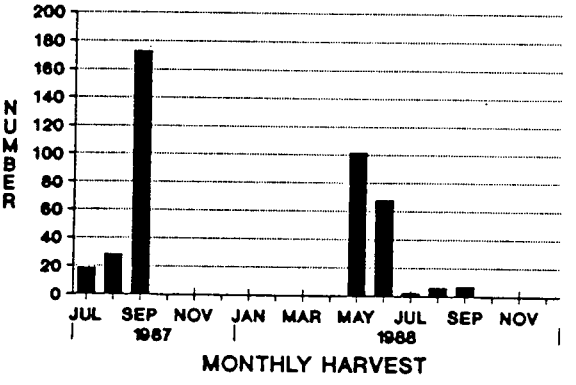
Figure 25: Monthly and annual harvests of Northern Pintail, Scaup, and Scoter, reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

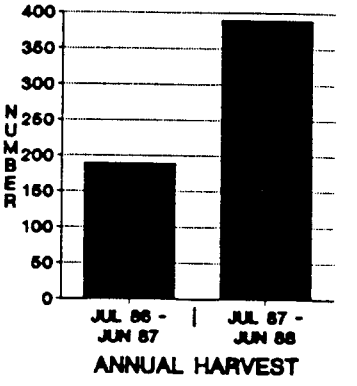
Northern Shoveler



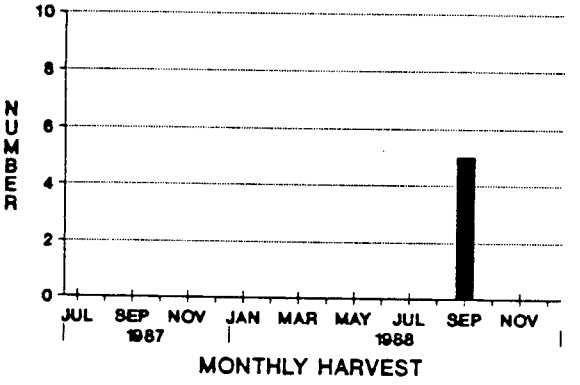


American Widgeon





Duck spp.



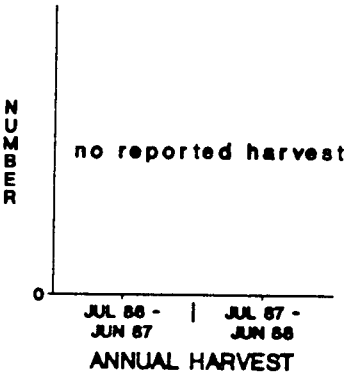
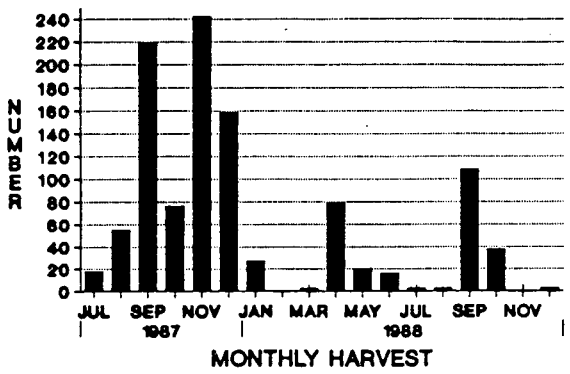


Figure 26: Monthly and annual harvests of Northern Shoveler, American Widgeon, and Duck spp., reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

Ptarmigan



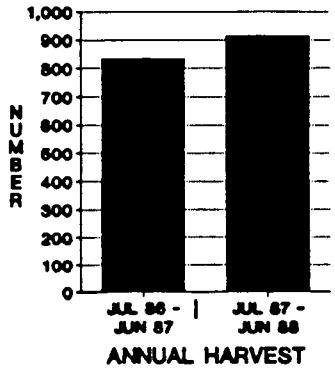


Figure 27: Monthly and annual harvests of Ptarmigan, reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.

Burbot harvest was during November in 1987 and extended from October to December in 1988 (Figure 30). Inconnu and Northern Pike harvest seasons began in June and extended through December (Figure 30).

10.6.2 Mammals

Beluga was the only marine mammal reported as harvested by Inuvik hunters (Figure 33). They were principally harvested during July in both 1987 and 1988 but two were also harvested during August of 1988.

Available data indicate that caribou were harvested during all survey months except September and October in 1987 (Figure 34). The absence of reported caribou harvest during these months is likely an artifact of the low hunter survey coverage as caribou were harvested during this period in 1988. November was the peak harvest month during both 1987 and 1988 as well as the month during which the most hunters reported harvesting caribou (Appendix 16). harvesting occurred from January through April with the number of hunters harvesting and harvest levels declining to low levels from May through August. The number of hunters harvesting caribou, as well as, the number of caribou taken increases from September to peak levels in November and December.

It is difficult to interpret the sex and age of the harvest as, over the course of the monthly surveys, information was reported for only 25% of the harvest with respect to caribou age and 53% for animal sex (Appendix 12). Available data show that for caribou of known sex, from July 1987 to June 1988, 25% were female and 75% were male. For caribou of known age class 75% were adults, 4% were juveniles, and 22% were young of the year. Similarly, for caribou where both sex and age were known 28% were adult females and 49% were adult males.

Moose were harvested in small numbers. Harvesting was during November and December 1987, and January, February, September, and December 1988.

Furbearers

Of the fur bearer harvest reported by Inuvik hunters, muskrat, american martin, american mink, ermine, and fox were taken in the largest numbers (Table 3).

With the exception of muskrat, all fur bearers were principally harvested from November to February (Figure 35 to 39). Muskrat were harvested from March through June with peak harvesting during May (Figure 38).

Hare were principally harvested from September to December in 1988 (Figure 39). There was no reported harvest from July to December in 1987.

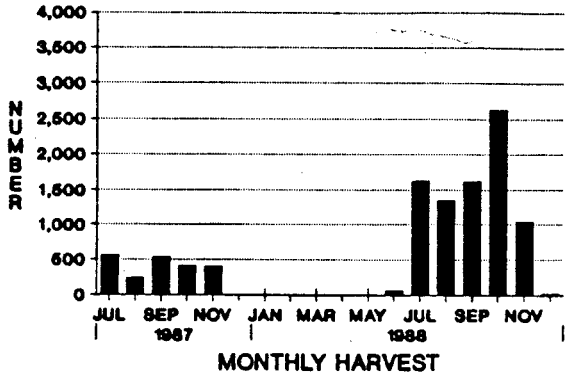
10.6.3 Birds

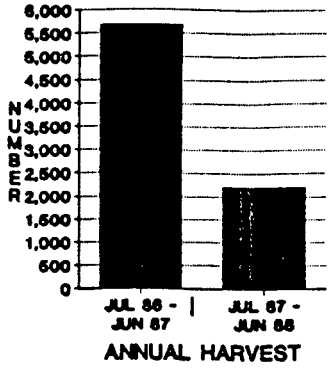
Waterfowl were harvested from May to October with the majority of the harvest taking place during May, June, and September (Figure 40 to 45). Principal waterfowl species harvested were white-fronted geese, Canada geese, snow geese, brants, mallard, oldsquaw, northern shoveler, and american widgeon. The importance of each species varied between years of the current harvest data.

ANIMAL NAME	HARVESTING PERIOD AND NUMBER HARVESTED JULY 1986 TO JUNE 1987	JULY 1987 TO DECEMBER 1987	1988
FISH			
Arctic Charr - anadromous	3		200
Broad Whitefish	5684	2150	8345
Lake Whitefish	4670	2200	7413
Whitefish spp.		5673	
Cisco		1775	898
Pacific Herring	1538		
Pacific Herring/Cisco		500	
Saffron Cod	17		
Lake Trout	297		118
Burbot	4611	605	3496
Inconnu	1450	1675	1070
Northern Pike	1638	1720	2126
Arctic Grayling	9		
MAMMALS			
Beluga	40	64	63
Caribou	525	206	616
Moose	16	8	16
Dall's Sheep	2		
Grizzly Bear	1		
American Black Bear	1		4
Wolf	5	1	5
Wolverine	5	2	3
Lynx	23	8	9
Arctic Fox - white	2	11	
- blue	6		1
Red Fox - red	138	54	56
- cross	117	19	44
- silver	10	3	5
- black			2
Fox spp.		6	29
Total Fox Harvest	273	93	137
Ermine	41	20	152
American Marten	321	175	281
American Mink	192	78	185
Muskrat	20555		14513
American Beaver	22		10
River Otter	1		
Hare spp.	1004		445
BIRDS			
Greater White-fronted Goose	280	181	162
Canada Goose	89	45	135
Snow Goose	201	75	285
Brant	82		
Swan	81	9	4
Arctic Loon	1		
Common Loon	4		
Canvasback	46		
Eider	1		
Goldeneye	42		2
Mallard	147	20	130
Oldsquaw	79		58
Northern Pintail	135		24
Scaup	10		10
Scoter	238		84
Northern Shoveler	110		
American Widgeon	245		217
Duck spp.			90
Ptarmigan	448		5

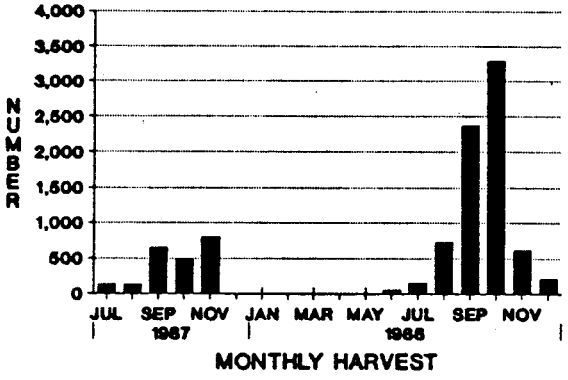
Table 3: Reported fish and wildlife harvest by hunters from Inuvik, N.W.T., from July 1986 to December 1988.

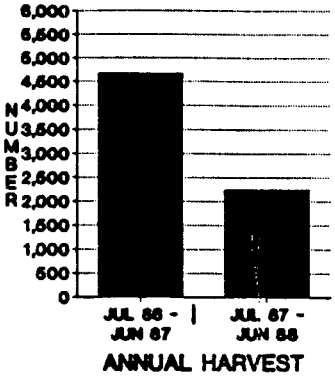
Broad Whitefish



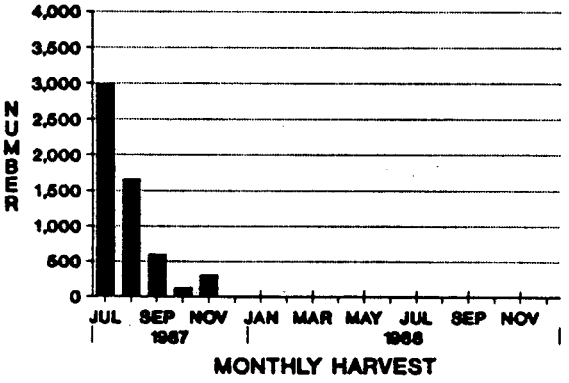


Lake Whitefish





Whitefish spp.



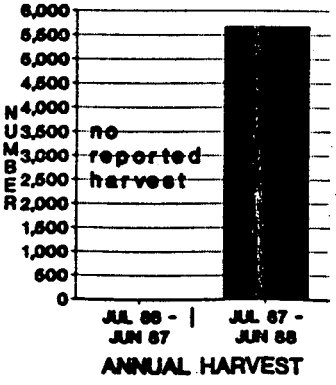
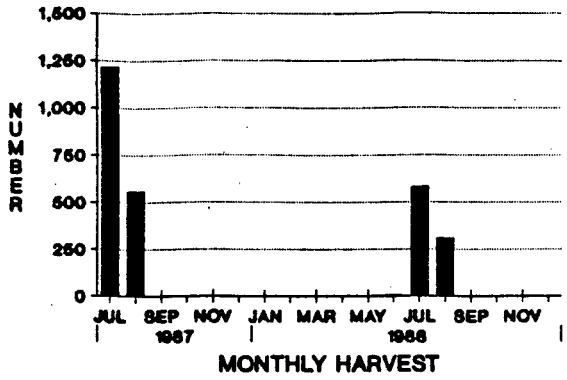
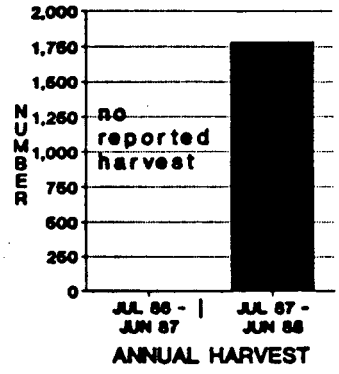


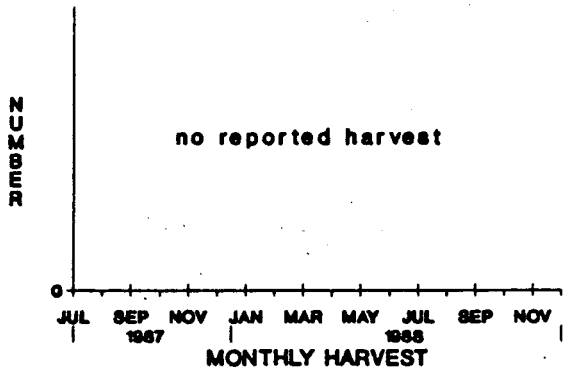
Figure 28: Monthly and annual harvests of Broad Whitefish, Lake Whitefish, and Whitefish spp., reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

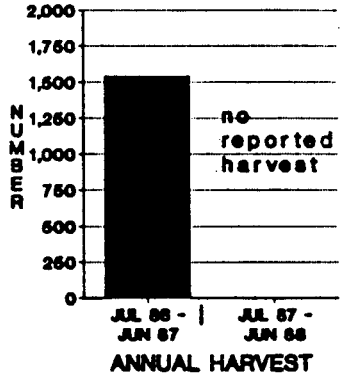
Cisco



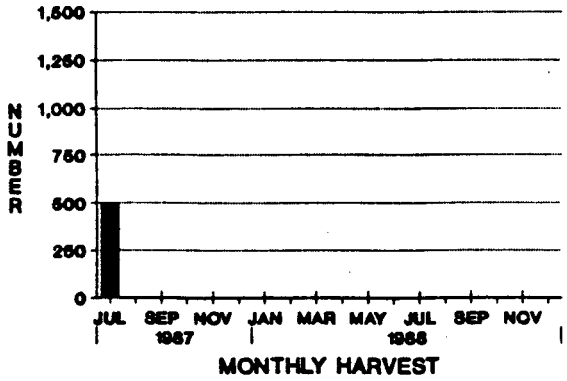


Pacific Herring





Pacific Herring/Cisco



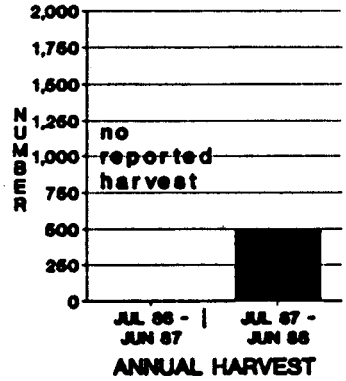
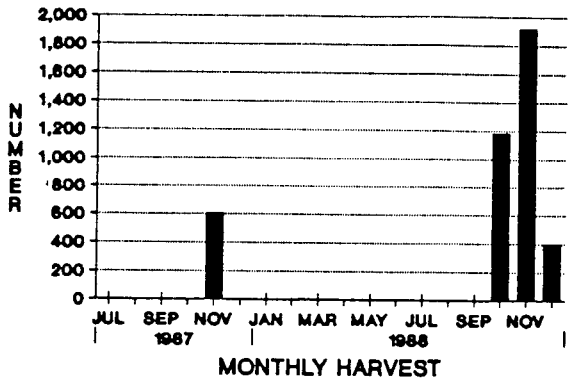
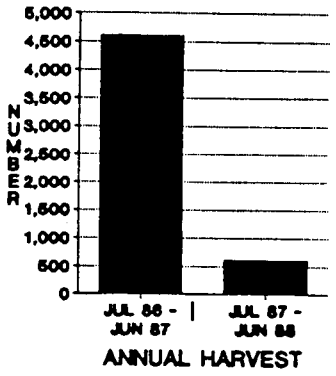


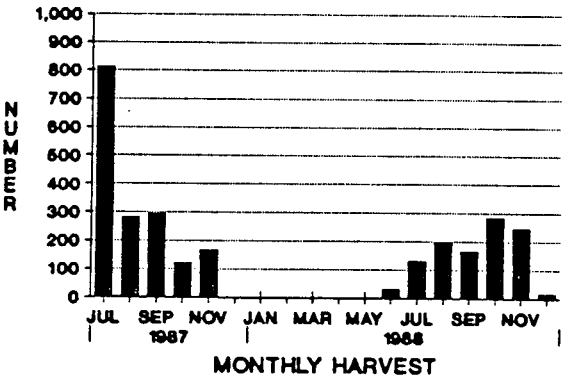
Figure 29: Monthly and annual harvests of Cisco, Pacific Herring, and Pacific/Herring, reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

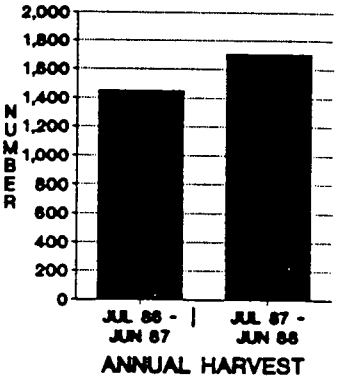
Burbot



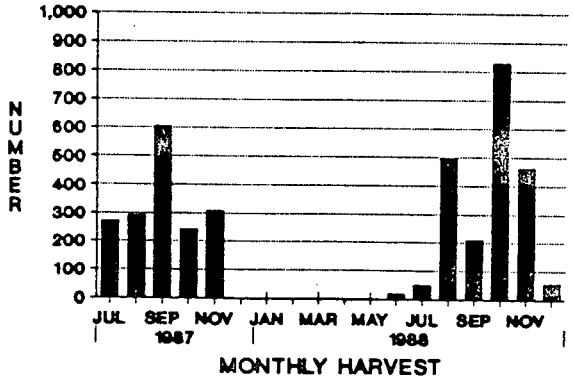


Inconnu





Northern Pike



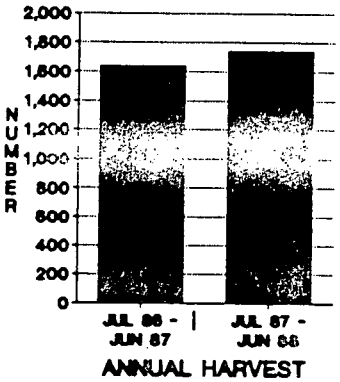
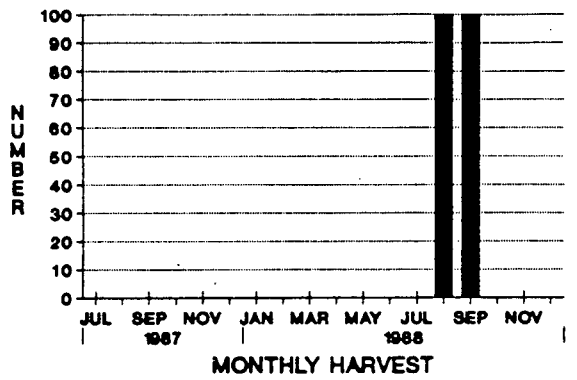
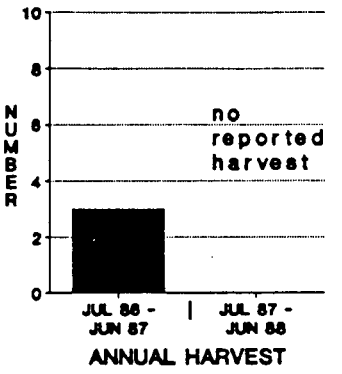


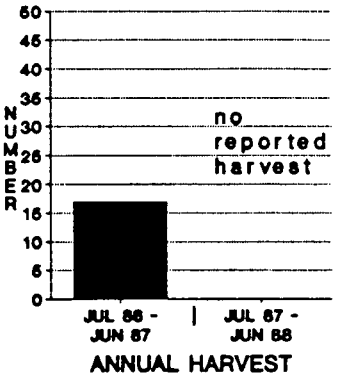
Figure 30: Monthly and annual harvests of Burbot, Inconnu, and Northern Pike, reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

Arctic Charr (anadromous)

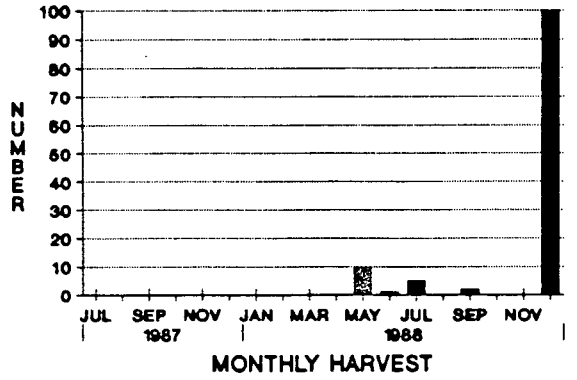




Saffron Cod



Lake Trout



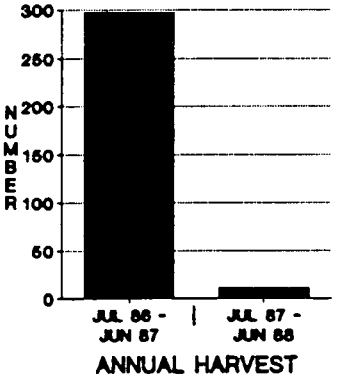


Figure 31: Monthly and annual harvests of Arctic Charr (anadromous), Saffron Cod, and Lake Trout, reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

Arctic Grayling

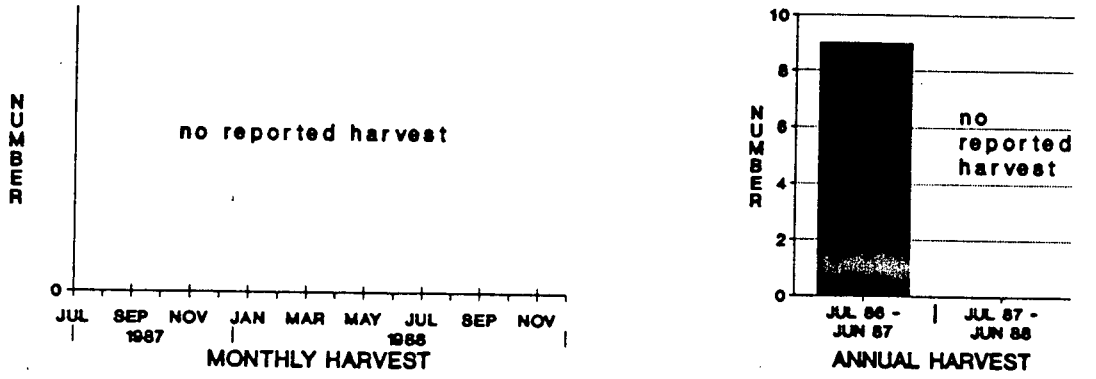


Figure 32:Monthly and annual harvests of Arctic Grayling, reported by Inuvik (N.W.T) hunters, for the period July 1986 to December 1988.

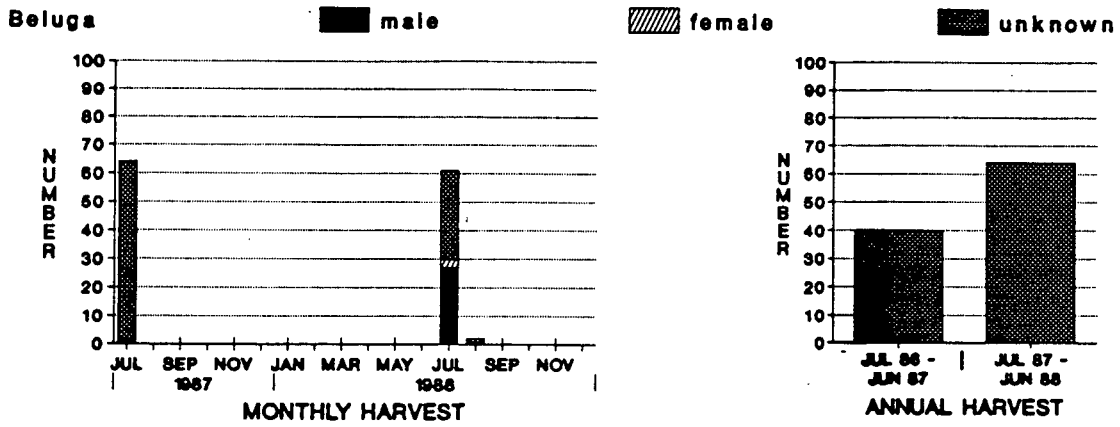


Figure 33:Monthly and annual harvests of Beluga, reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

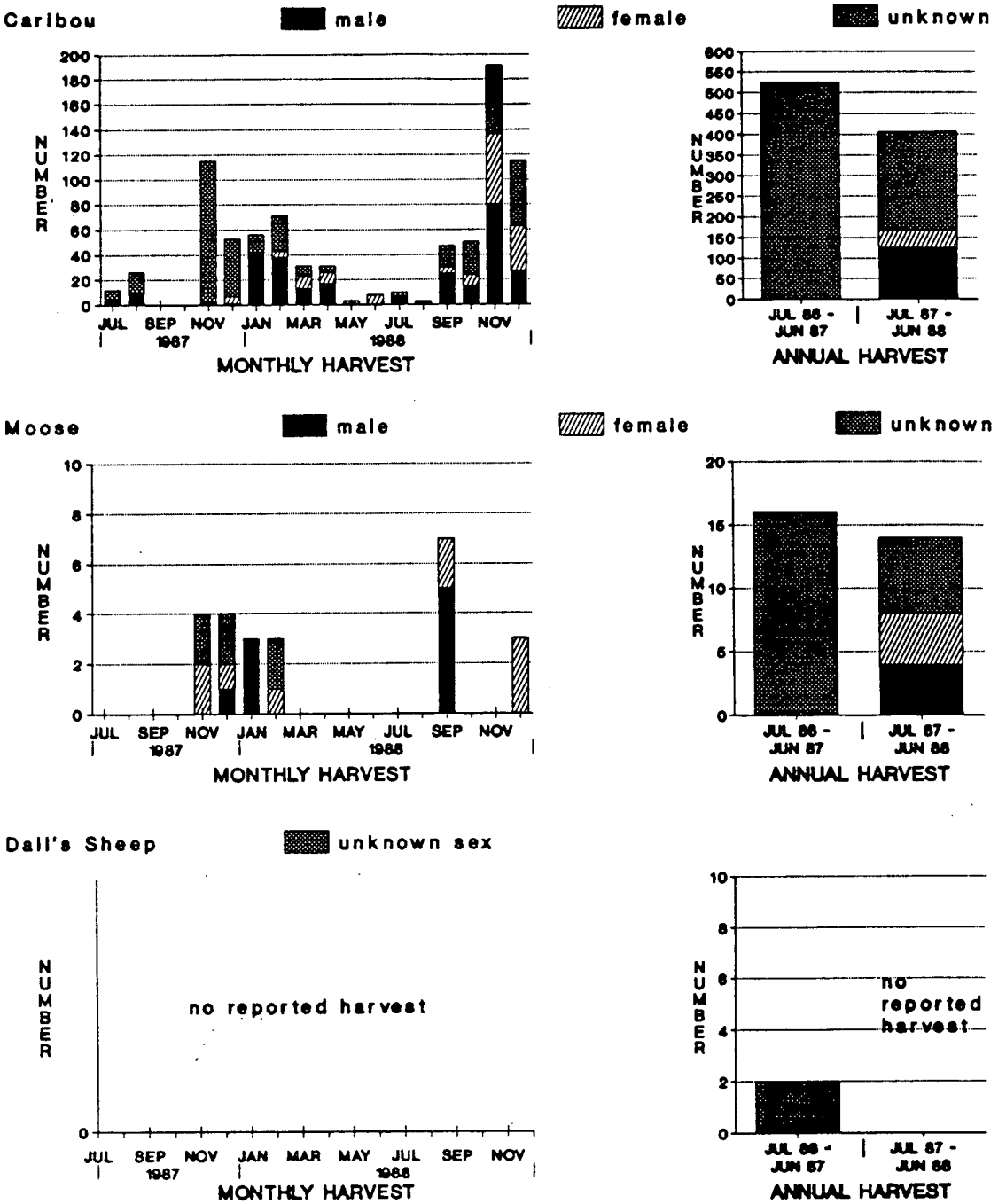


Figure 34:Monthly and annual harvests of Caribou, Moose, and Dall's Sheep, reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

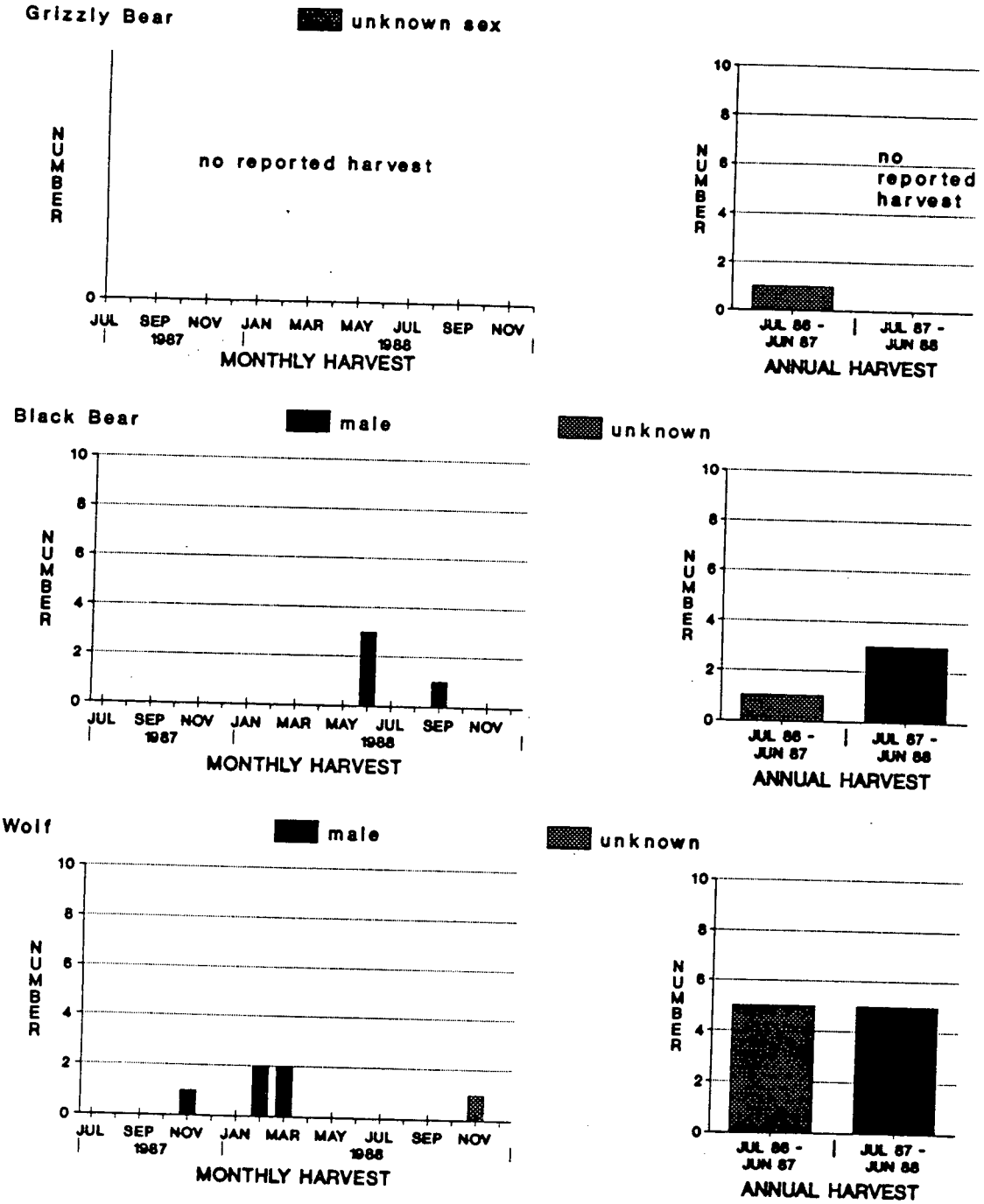
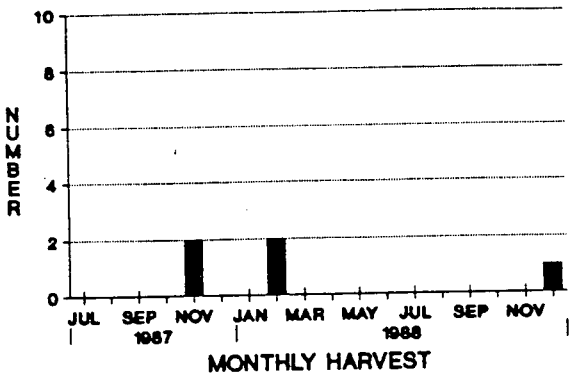
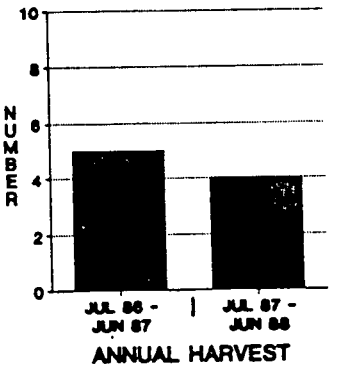


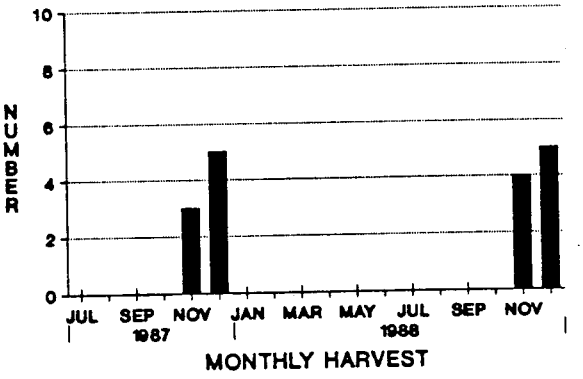
Figure 35:Monthly and annual harvests of Grizzly Bear, Black Bear, and Wolf, reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

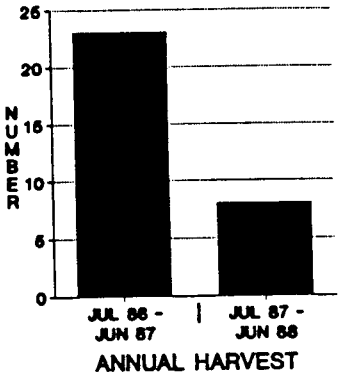
Wolverine



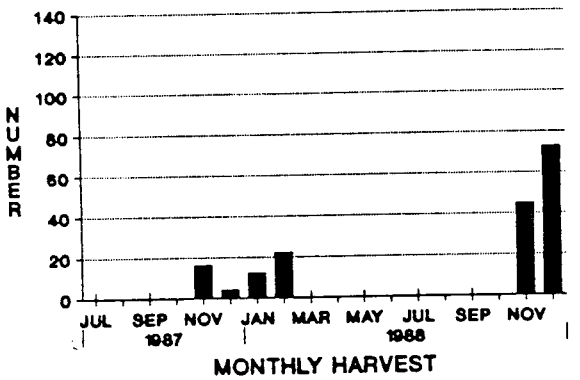


Lynx





Ermine



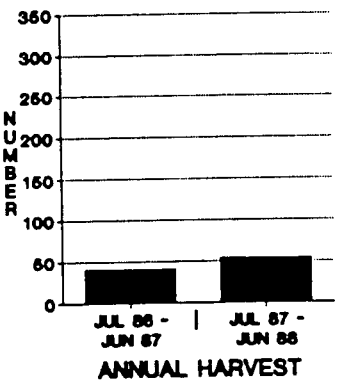


Figure 36:Monthly and annual harvests of Wolverine, Lynx, and Ermine, reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

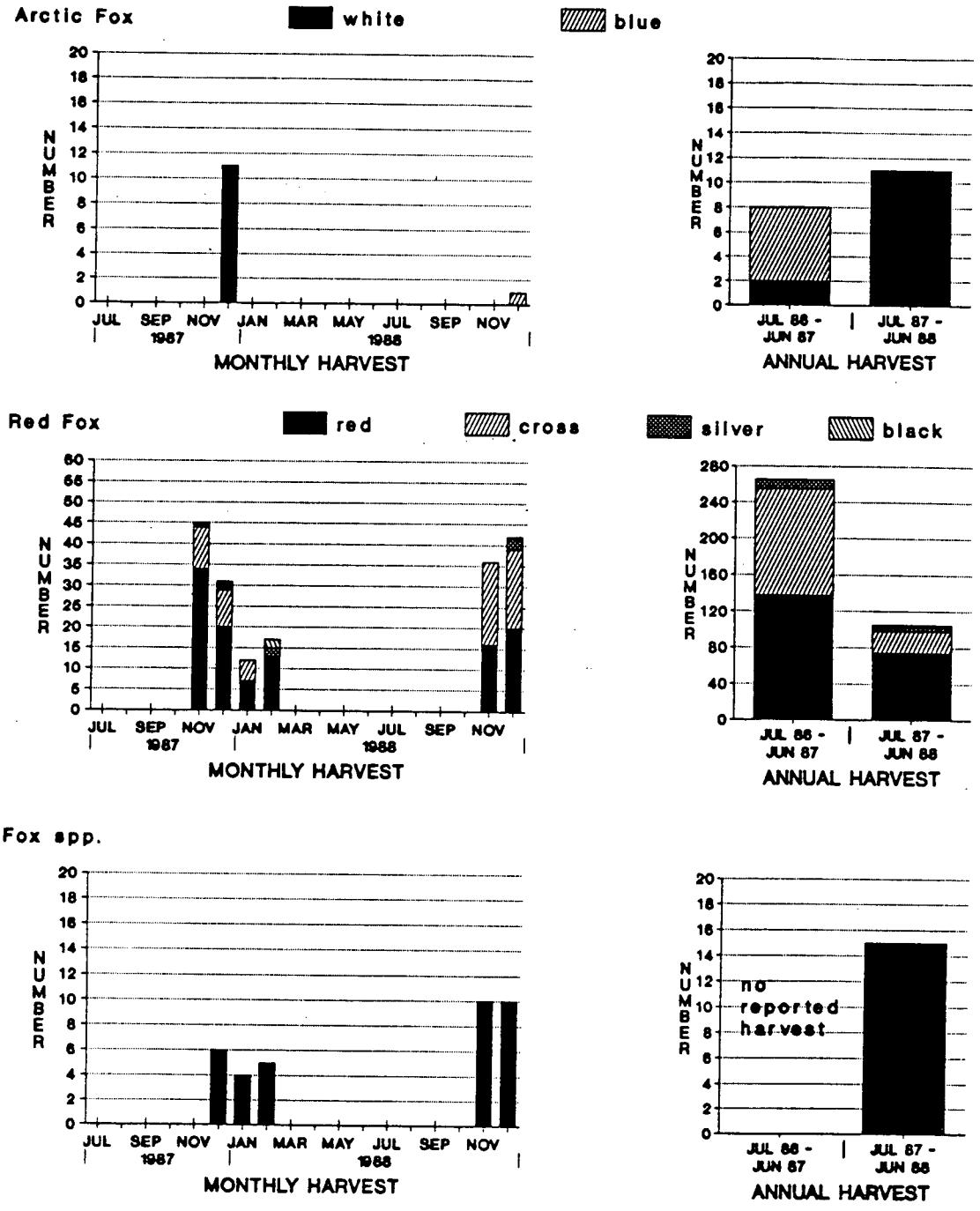
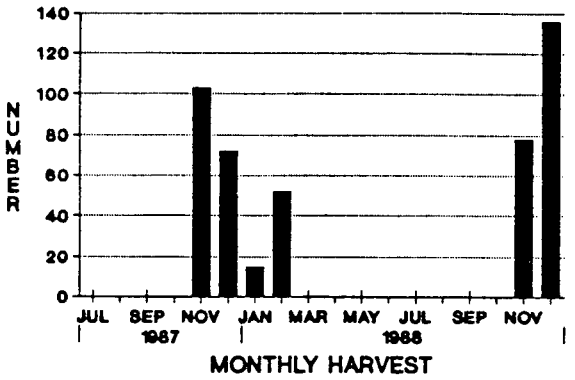
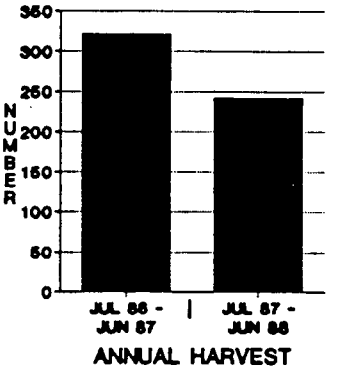


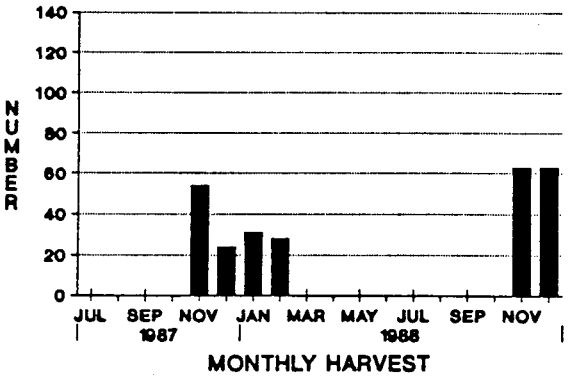
Figure 37: Monthly and annual harvests of Arctic Fox, Red Fox, and Fox spp., reported by Inuvik hunters, for the period July 1986 to December 1988.

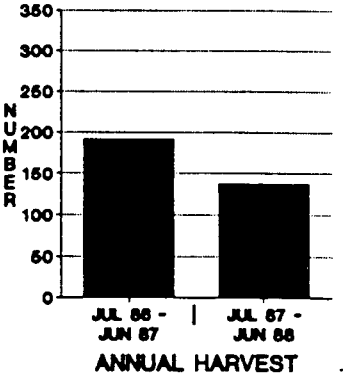
American Marten



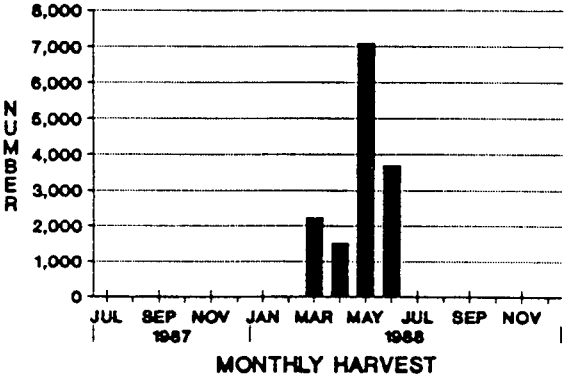


American Mink





Muskrat



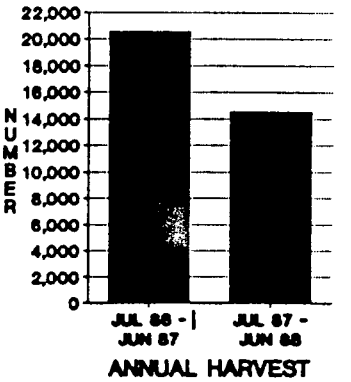
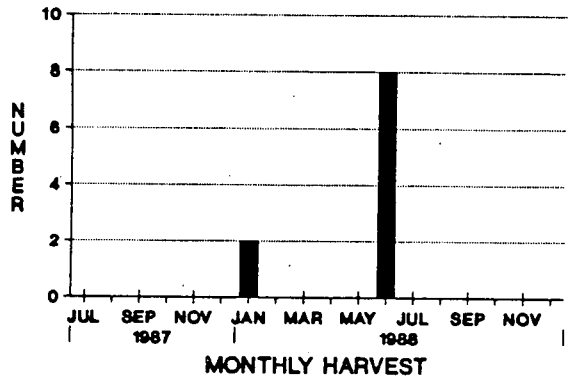
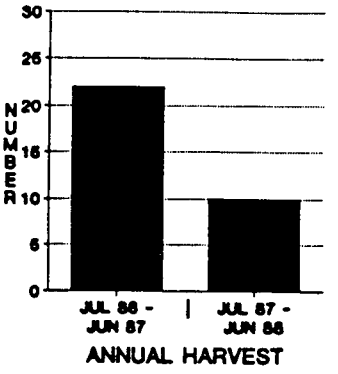


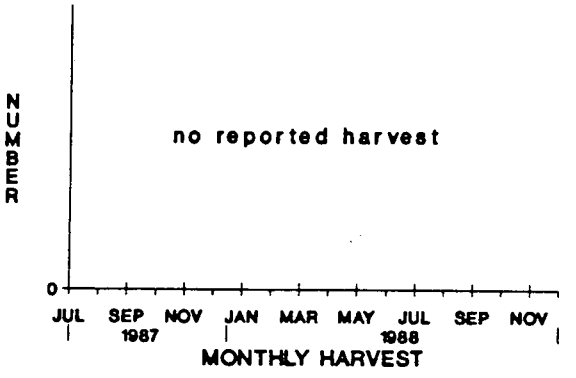
Figure 38: Monthly and annual harvests of American Marten, American Mink, and Muskrat, reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

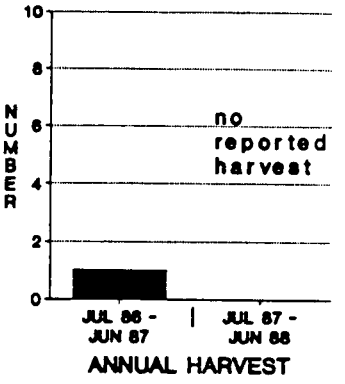
American Beaver



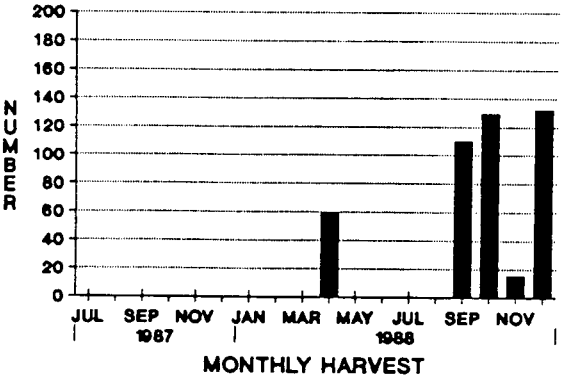


River Otter





Hare spp.



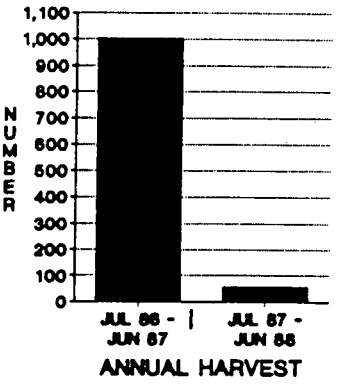
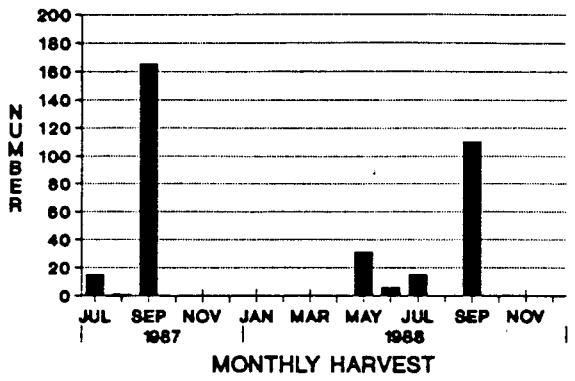
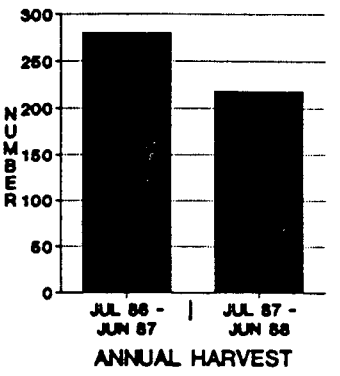


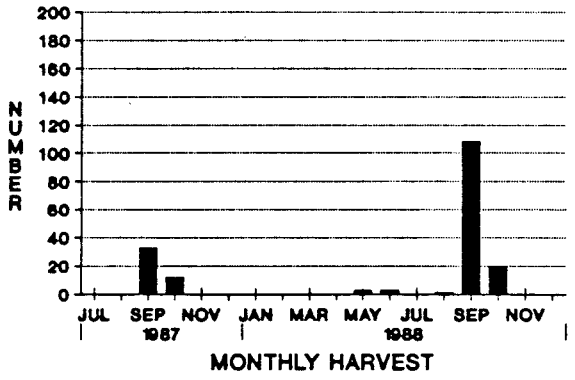
Figure 39: Monthly and annual harvests of American Beaver, River Otter, and Hare spp., reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

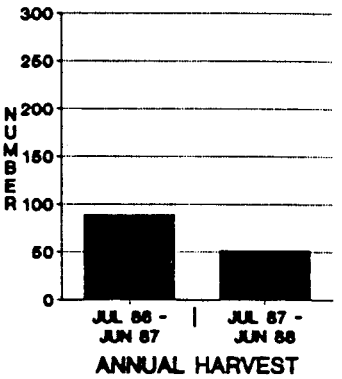
White-fronted Goose



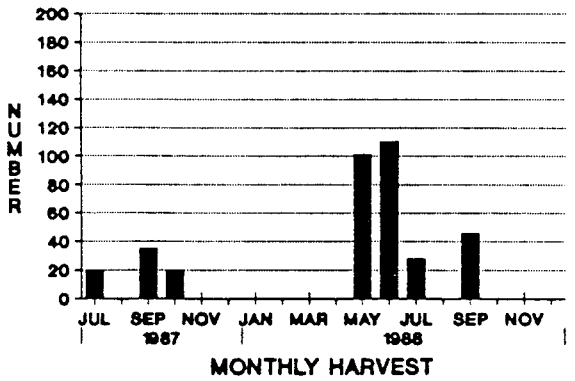


Canada Goose





Snow Goose



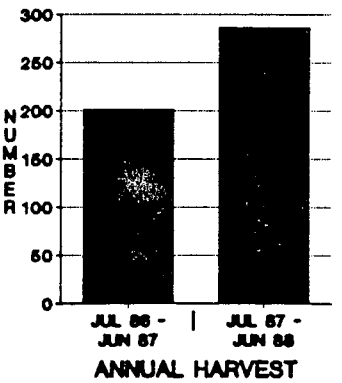


Figure 40: Monthly and annual harvests of White-fronted Goose, Canada Goose, Snow Goose, reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

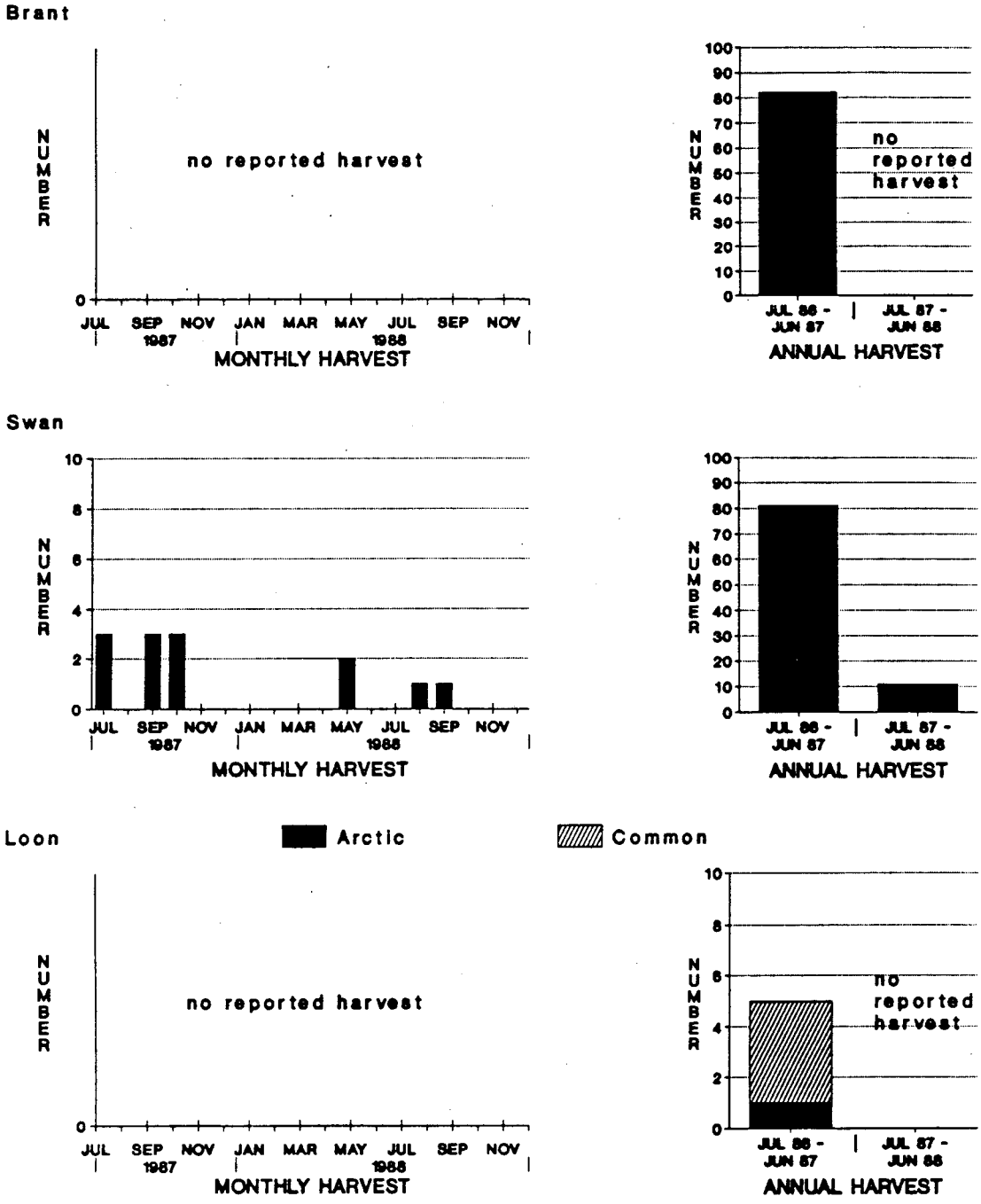
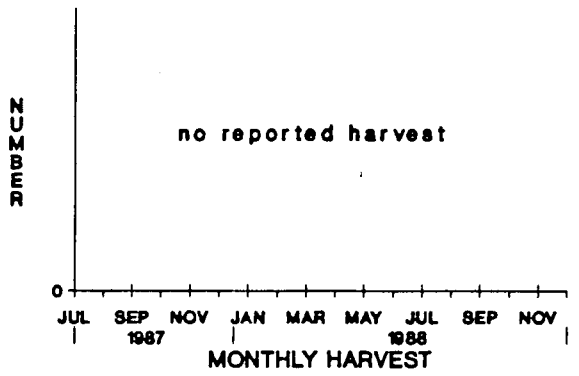
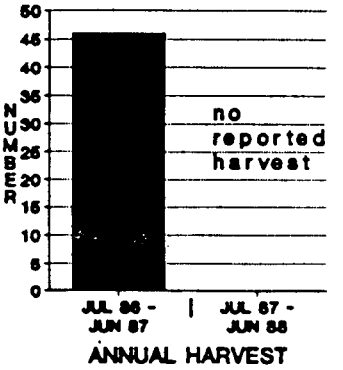


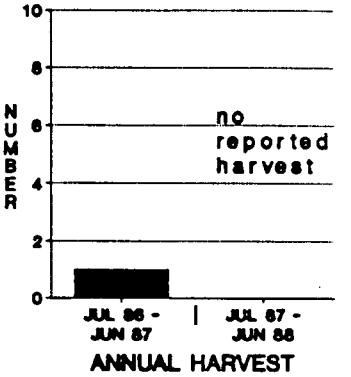
Figure 41: Monthly and annual harvests of Brant, Swan, and Loon, reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

Canvasback

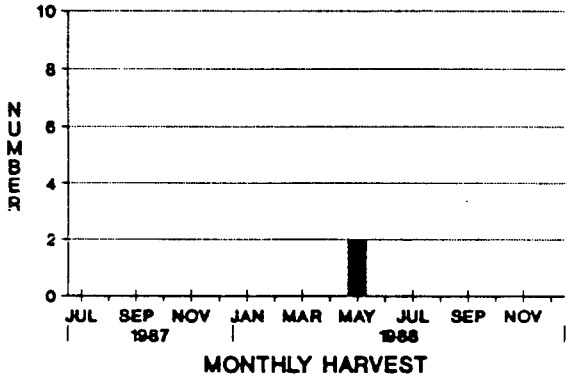




Eider



Goldeneye



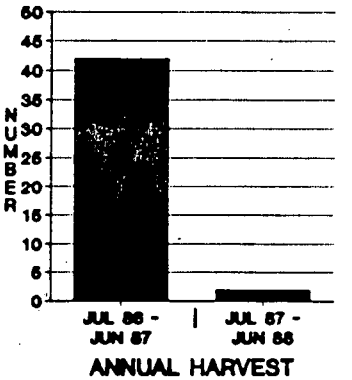
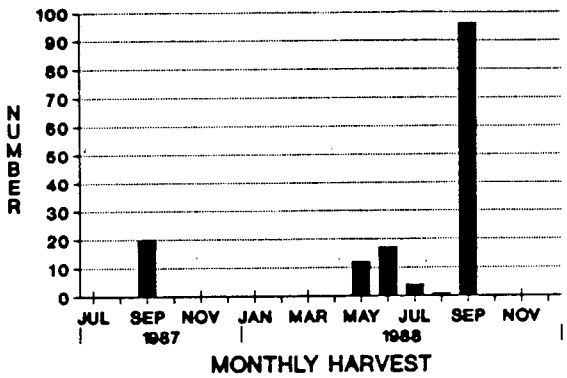
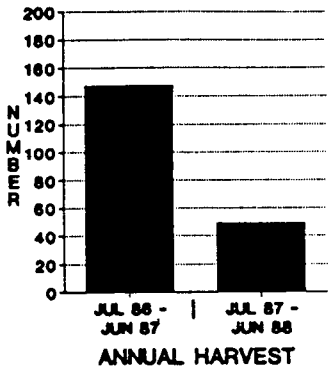


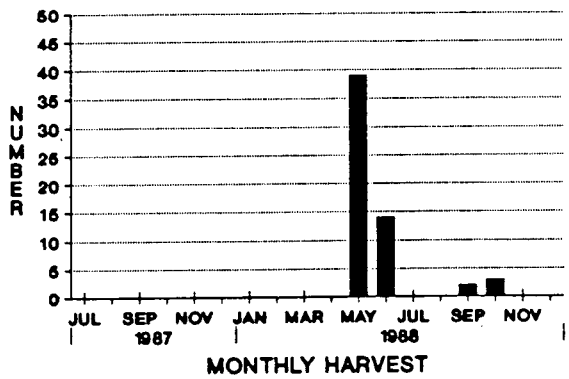
Figure 42: Monthly and annual harvests of Canvasback, Eider, and Goldeneye, reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

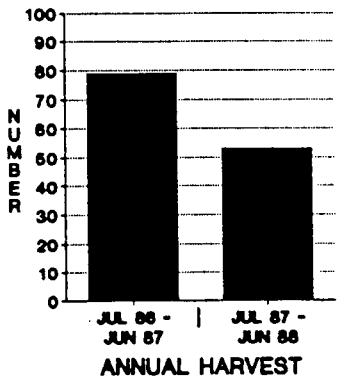
Mallard



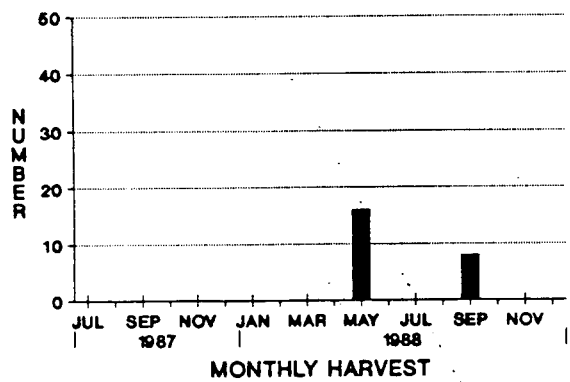


Oldsquaw





Northern Pintail



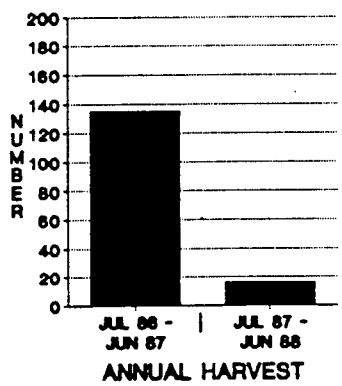
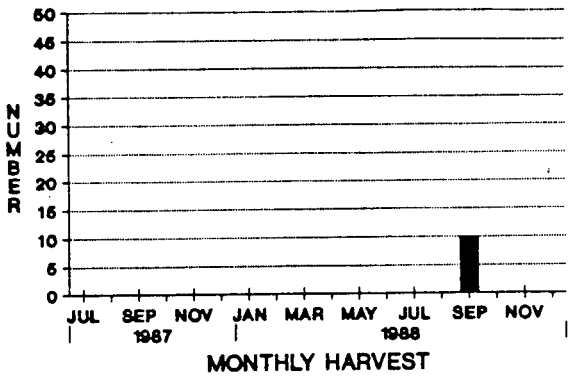
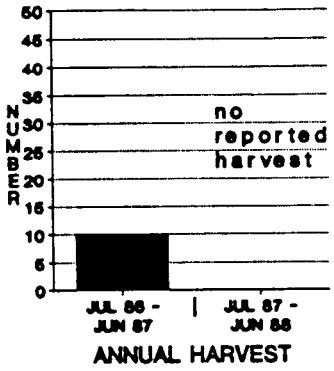


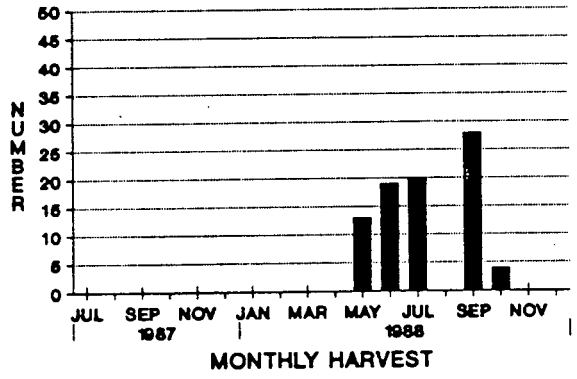
Figure 43: Monthly and annual harvests of Mallard, Oldsquaw, and Northern Pintail, reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

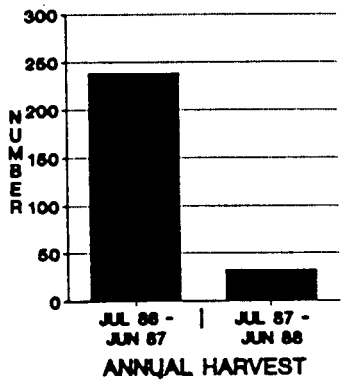
Scaup



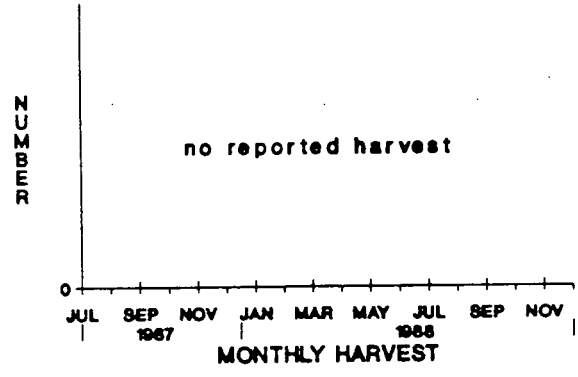


Scoter





Northern Shoveler



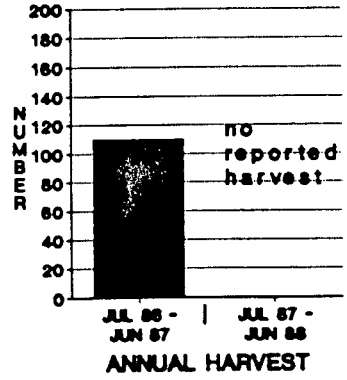
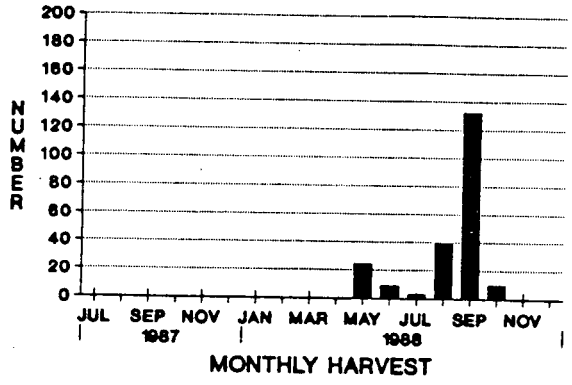
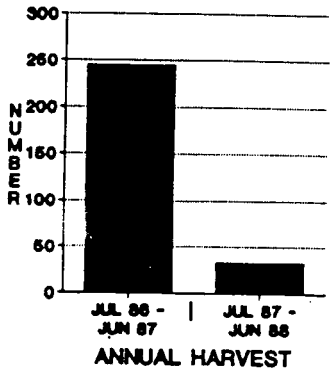


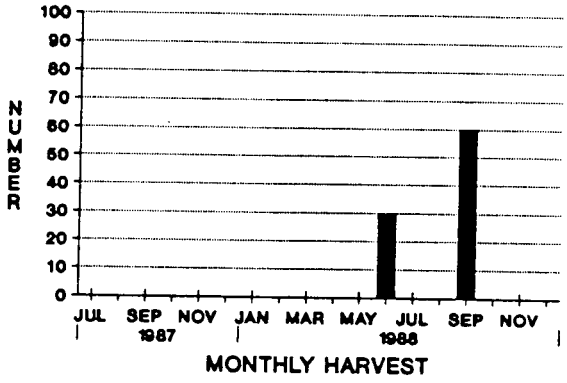
Figure 44: Monthly and annual harvests of Scaup, Scoter, and Northern Shoveler, reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

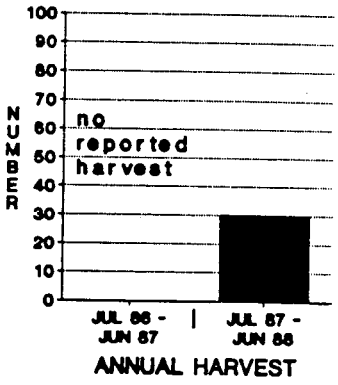
American Widgeon



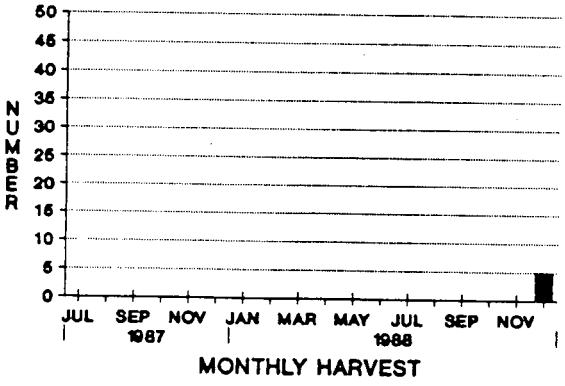


Duck spp.





Ptarmigan



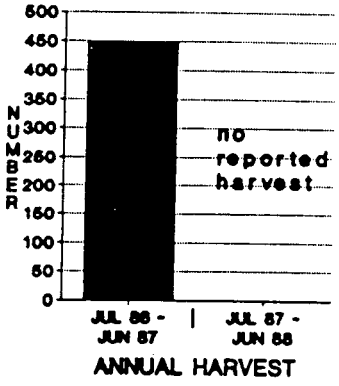


Figure 45: Monthly and annual harvests of American Widgeon, Duck spp., and Ptarmigan, reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.

10.7 Tuktoyaktuk

Tuktoyaktuk hunters and trappers harvested forty eight (48) species of wildlife (Table 4). These included fish (12 species), marine mammals (4), terrestrial mammals (14) and birds (18). Species harvest results are summarized in Table 4. Monthly harvest results are presented graphically in Figures 46 to 62 with the associated numbers presented in Appendices 18 to 21. The known hunter population, survey coverage, number of hunters that harvested during each survey period along with the number that harvested each species are presented in Appendices 22 to 25.

On average 83.5% of the known hunter population was interviewed, over the course of the monthly surveys from July 1987 to December 1988 (Appendix 22).

10.7.1 Fish

Monthly data indicates that fish were harvested throughout the year (Figure 46-49, Appendix 18). The principal fishing season extended from July through December, with peak harvesting months varying with species and year. The major fish species harvested were broad whitefish, lake whitefish, cisco, pacific herring, and inconnu (Table 4). Compared to these species, harvested numbers of other fish were relatively small.

Whitefish were harvested from July to December in 1987 (Figure 46). Broad whitefish were principally harvested from July to October and lake whitefish from August to November. In 1988 the majority of all whitefish were taken during September. For 1988 it is not possible to completely identify the species specific harvest seasons as a some of the harvest was not identified as either broad of lake whitefish. However, as in 1987 whitefish were harvested from July through December with a small number taken from January to March and May and June.

Cisco and pacific herring were harvested from July through December in 1987 (Figure 47). Cisco were harvested from July to September 1988 and pacific herring principally from September to December 1988. Peak harvesting of cisco was during August and September 1987 and September 1988. Pacific herring harvesting peaked in November 1987 and September 1988. In 1988 some data was unclear as to identifying the harvested

species as either pacific herring or cisco. It is not possible at this time to determine if these data refer to one or other of these species. These data do not alter the peak harvest seasons for cisco or pacific herring.

Inconnu were harvested during July 1987 to April 1988 and July, September, and November of 1988 (Figure 48). Peak harvesting was during July to September 1987 and July and September 1988.

10.7.2 Mammals

Marine mammal harvest included Ringed Seal, Bearded Seal, Beluga, and Polar Bear (Table 4). Seals were harvested in low numbers from the Spring to the Fall (Figure 50).

Beluga were the principal marine mammal harvested. Harvesting extended from June to August, with peak harvesting during July (Figure 50). Harvest levels during the 1988 season were lower than those reported for previous years.

Polar bear were harvested during December 1987 to April 1988, with peak harvesting during February (Figure 51). Tuktoyaktuk hunters provided information as to the sex of all twelve polar bears harvested and age class information on ten (Figure 51; Appendix 20). Eight of the twelve polar bear harvested were males. Four were adults, two of which were male and two were female.

Of the terrestrial mammals, caribou were taken in the largest numbers throughout year, except June and July 1988 (Table 4; Figure 51). The major portion of the harvest took place during November 1987 to March 1988 as well as September and November 1988.

Over the course of the monthly surveys, hunters provided sex information for 85% of the caribou harvest (Appendix 20). Age class information was obtained for 64% the harvest. For caribou of known sex, from July 1987 to June 1988, 71% were female and 29% were male. For caribou of known age class 94% were adults, 6% were juveniles. For caribou where both sex and age were reported 69% were adult females and 26% were adult males.

Moose were harvested in small numbers. Harvesting was during December 1987, and January to March and November 1988.

Fur bearers were primarily harvested from November to March, although for some species (ermine, american martin) the season began during October, and for red fox it

extended to April (Figure 52 to 55). Fox primarily white fox, and american martin were harvested in the largest numbers relative to other fur bearers (Table 4).

10.7.3 Birds

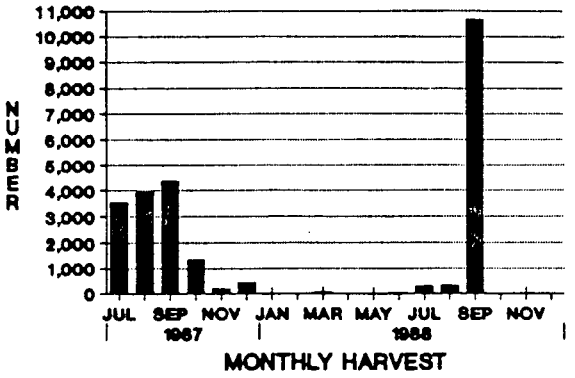
Of the waterfowl harvested, geese (white-fronted, snow, brant) were harvested in the largest numbers (Table 4). Monthly data indicate that geese were primarily harvested during May and June with peak harvesting during May (Figure 56,57). Other waterfowl were harvested principally during September (Figure 57 to 61).

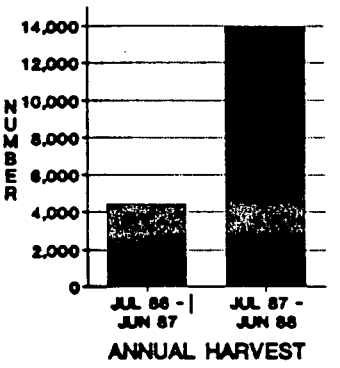
Ptarmigan were harvested during all months except May 1988 and July (1987 and 1988; Figure 62). Peak harvesting took place during September to November 1987 and September to October 1988.

ANIMAL NAME	HARVESTING PERIOD AND NUMBER HARVESTED JULY 1986 TO JUNE 1987	JULY 1987 TO DECEMBER 1987	1988
FISH			
Arctic Charr - anadromous			11
Broad Whitefish	4420	13823	11375
Lake Whitefish	8	2175	1614
Whitefish spp.	1000	304	1015
Cisco	11240	32217	34352
Pacific Herring	2098	2350	6075
Pacific Herring/Cisco			1940
Arctic Cod	10	6	
Saffron Cod	2050	314	25
Lake Trout	393	131	321
Burbot	290	166	290
Inconnu	1663	4137	1359
Northern Pike	81	80	13
Arctic Grayling	66	6	
MAMMALS			
Ringed Seal	44	24	6
Bearded Seal	1	3	
Beluga	56	63	31
Caribou	812	596	812
Moose	10	1	5
Polar Bear	*	2	10
Grizzly Bear	12	2	1
Wolf	38	19	11
Wolverine	7		7
Lynx			4
Arctic Fox - white	113	132	330
- blue	1		3
Red Fox - red	148	103	81
- cross	93	50	62
- silver	14	12	6
Total Fox Harvest	369	297	482
Ermine		24	
American Marten	186	372	185
American Mink	42	12	19
Muskrat		7	12
American Beaver		1	
Hare spp.	130	31	120
BIRDS			
Greater White-fronted Goose	951	136	1421
Canada Goose	47	4	40
Snow Goose	1241	613	2481
Brant	709	41	735
Goose spp.			15
Swan	162	14	19
Common Loon	19		
Canvasback	6		23
Eider		27	5
Green-winged Teal	6	47	
Mallard	11	38	16
Merganser	1		6
Oldsquaw	46	30	
Northern Pintail	37	95	113
Scaup		5	
Scoter	69	30	49
Northern Shoveler	2		14
American Widgeon		23	48
Ptarmigan	1900	922	978

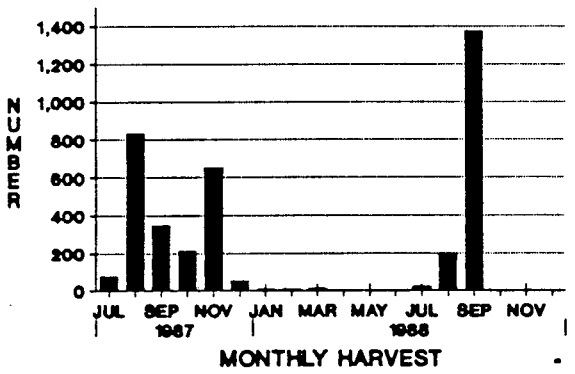
Table 4: Reported fish and wildlife harvest by hunters from Tuktoyaktuk, N.W.T., from July 1986 to December 1988.
* = no data were collected for July 1986 to June 1987

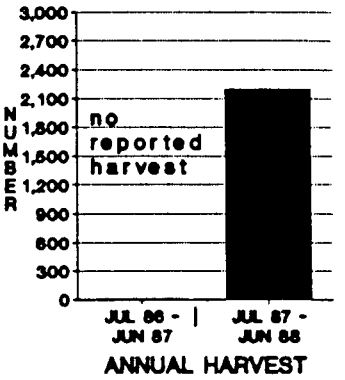
Broad Whitefish



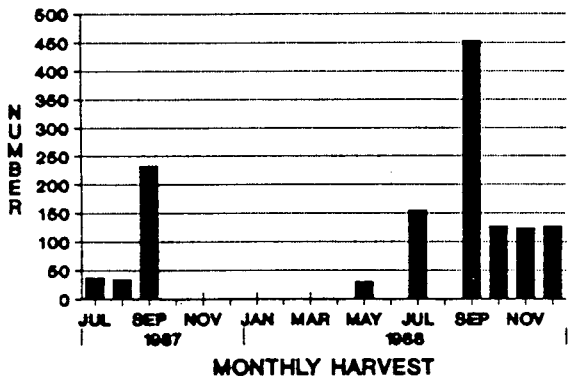


Lake Whitefish





Whitefish spp.



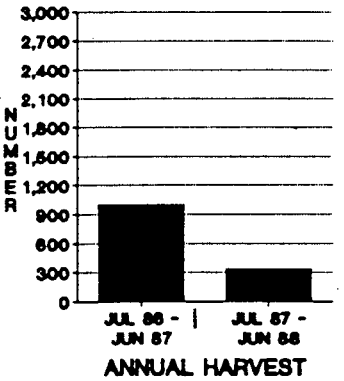
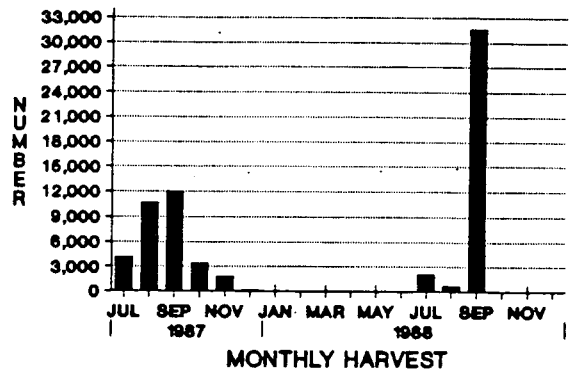
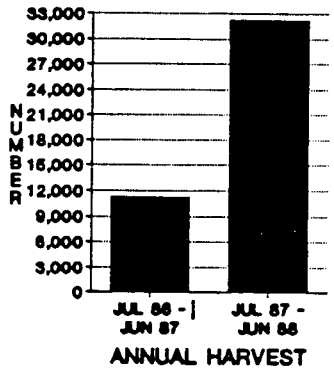


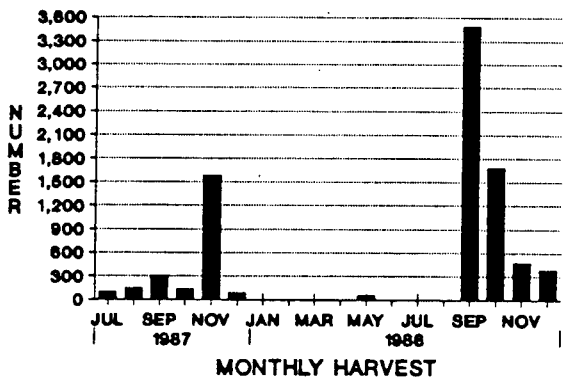
Figure 46: Monthly and annual harvests of Broad Whitefish, Lake Whitefish, and Whitefish spp., reported by Tuktoyaktuk hunters, for the period July 1986 to December 1988.

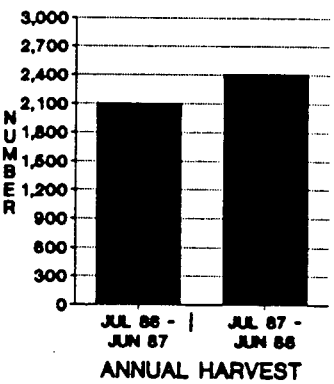
Cisco



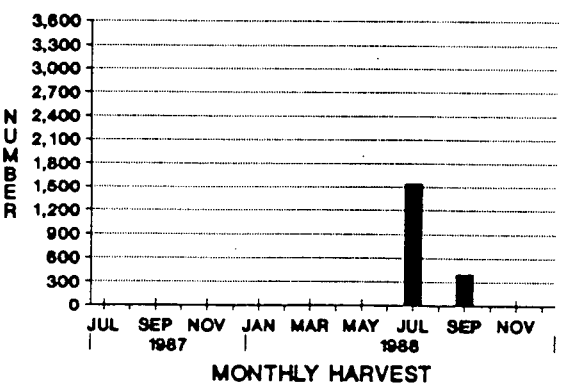


Pacific Herring





Pacific Herring/Cisco



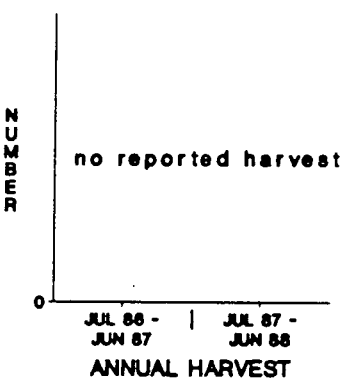
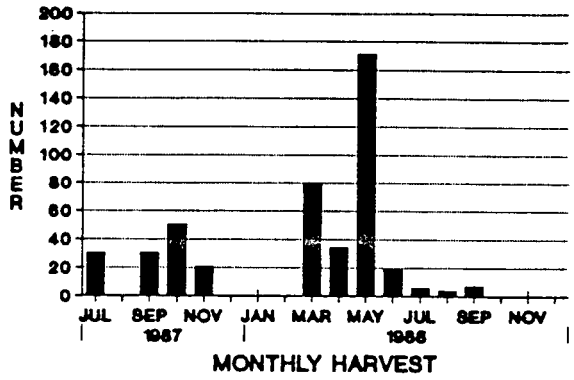
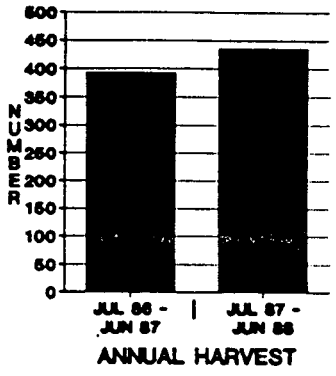


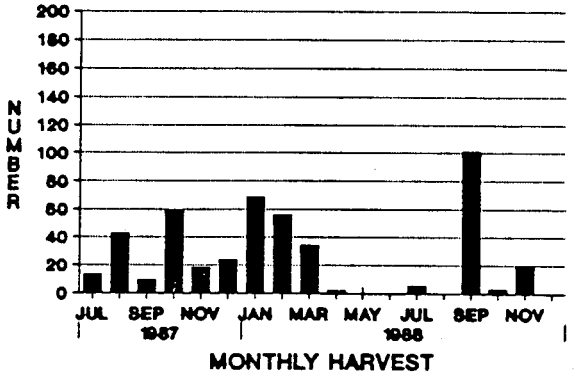
Figure 47: Monthly and annual harvests of Cisco, Pacific Herring, and Pacific Herring/Cisco, reported by Tuktoyaktuk hunters, for the period July 1986 to December 1988.

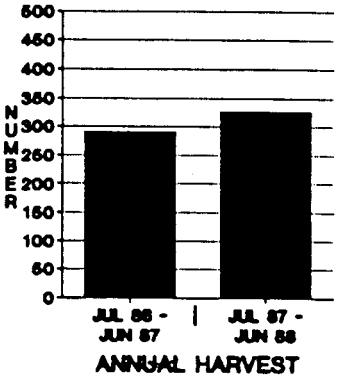
Lake Trout



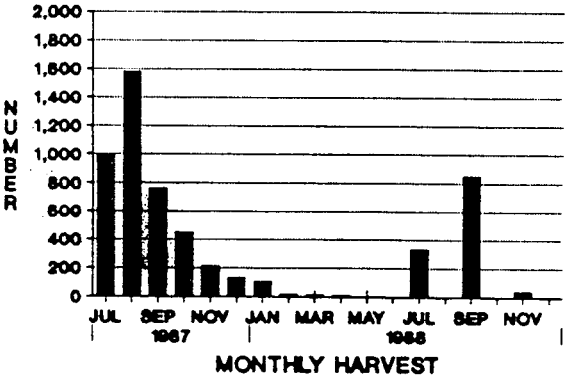


Burbot





Inconnu



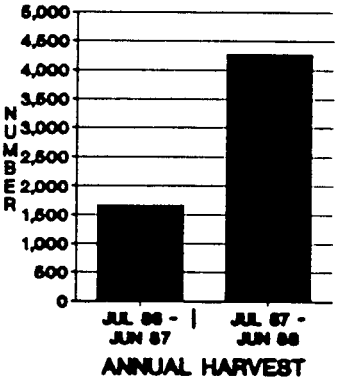
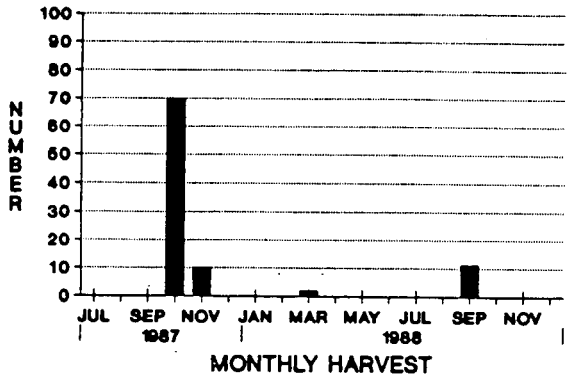
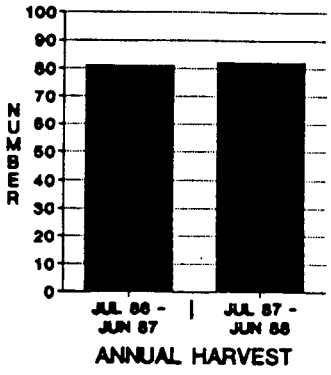


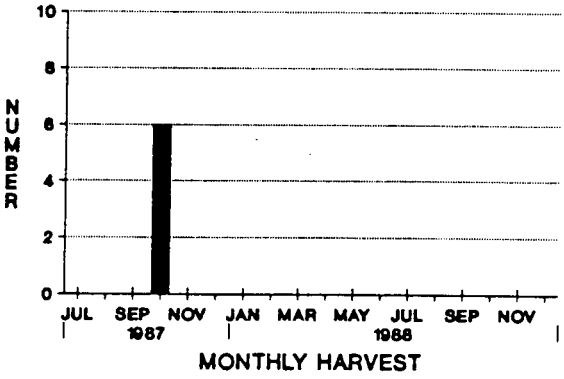
Figure 48:Monthly and annual harvests of Lake Trout, Burbot, and Inconnu, reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.

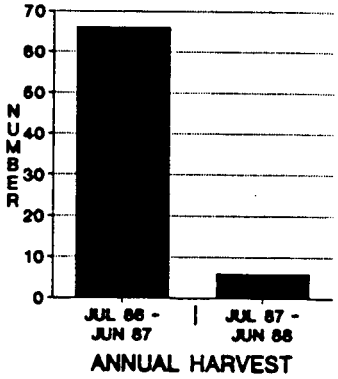
Northern Pike



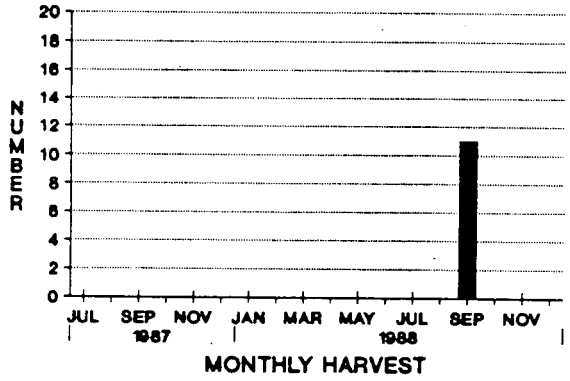


Arctic Grayling





Arctic Charr (anadromous)



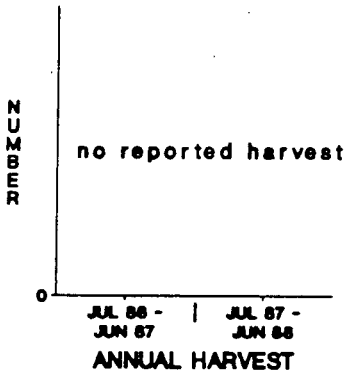


Figure 49: Monthly and annual harvests of Northern Pike, Arctic Grayling, and Arctic Charr (anadromous), reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.

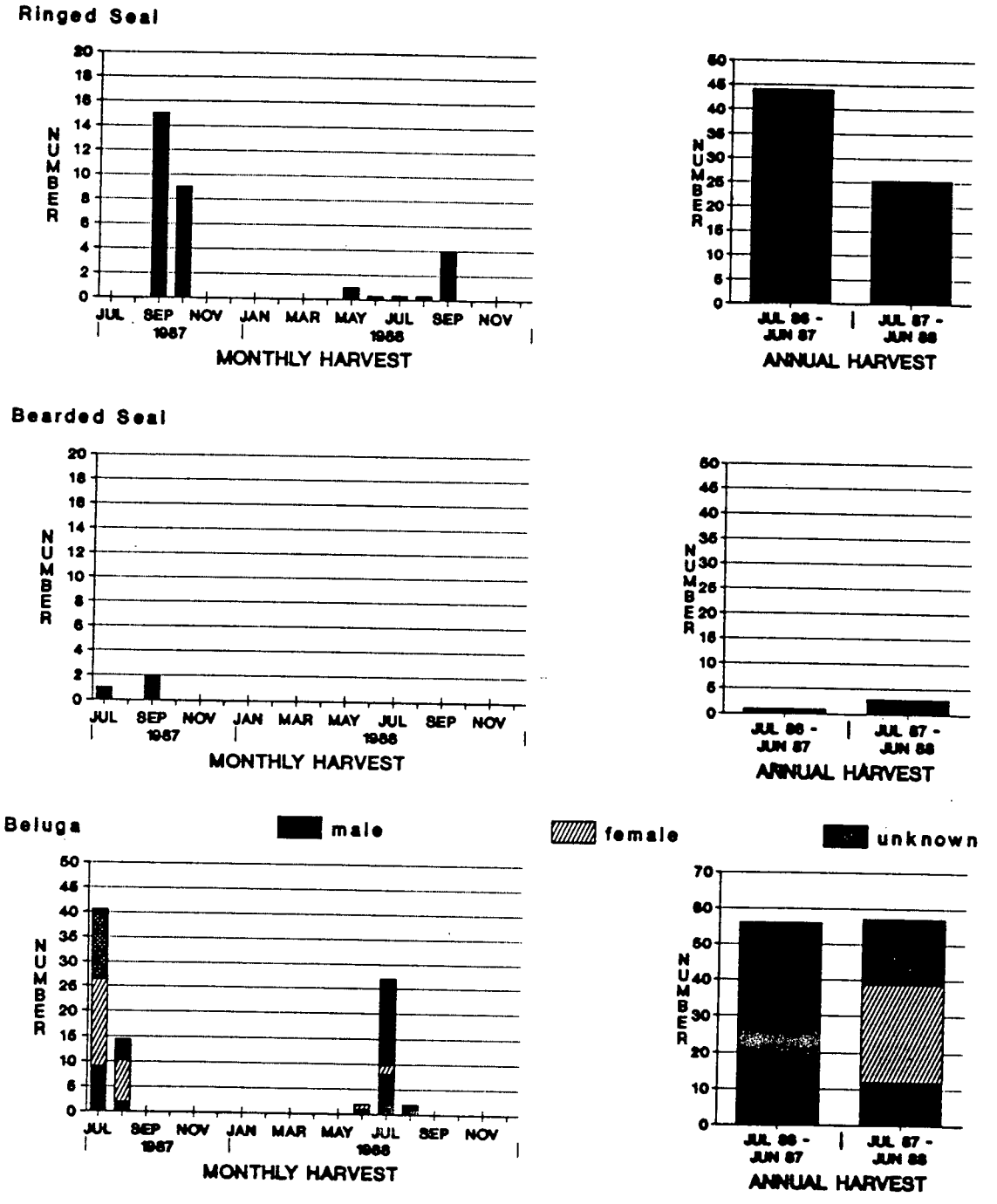


Figure 50:Monthly and annual harvests of Ringed Seal, Bearded Seal, and Beluga, reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.

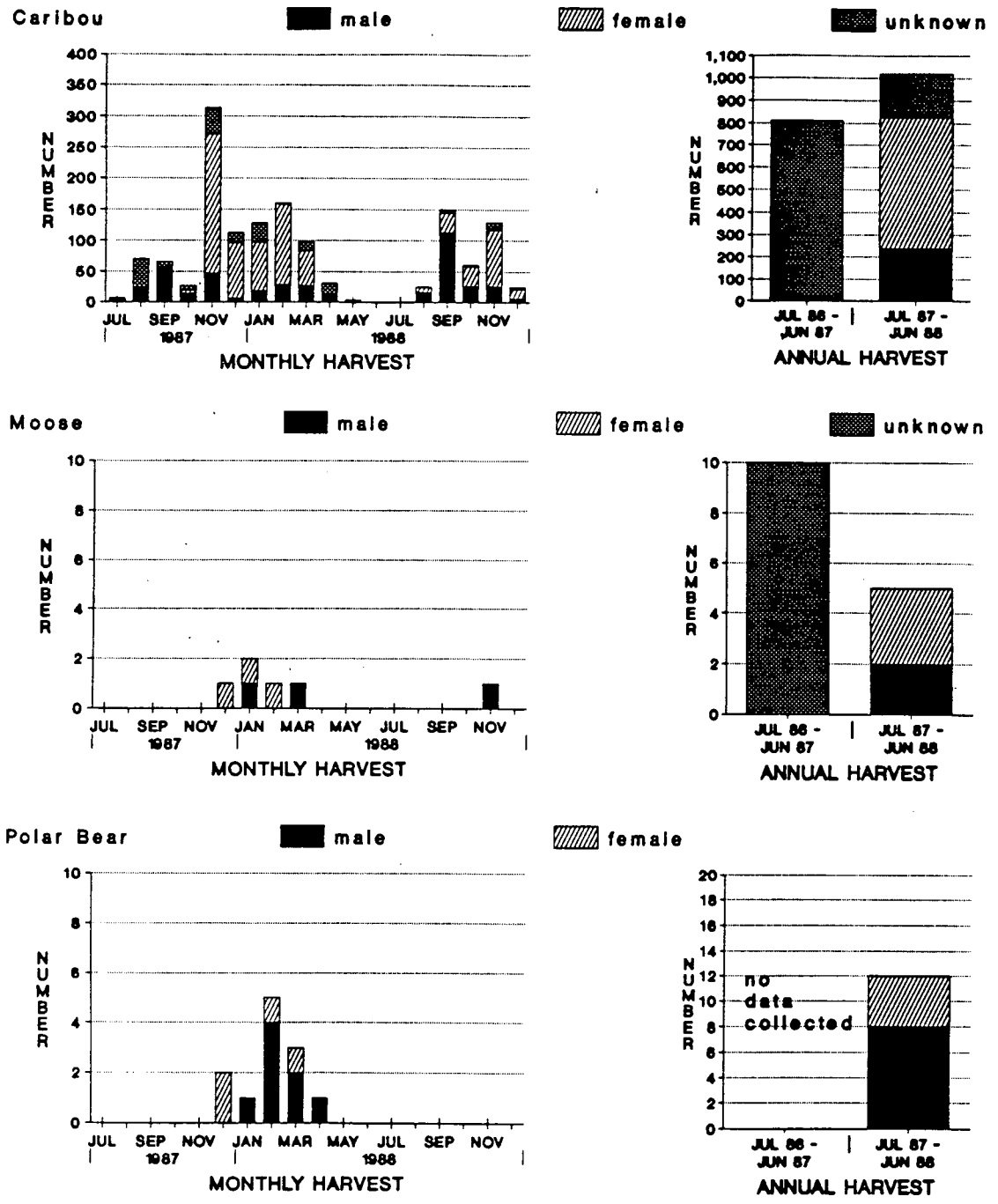


Figure 51: Monthly and annual harvests of Caribou, Moose, and Polar Bear, reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.

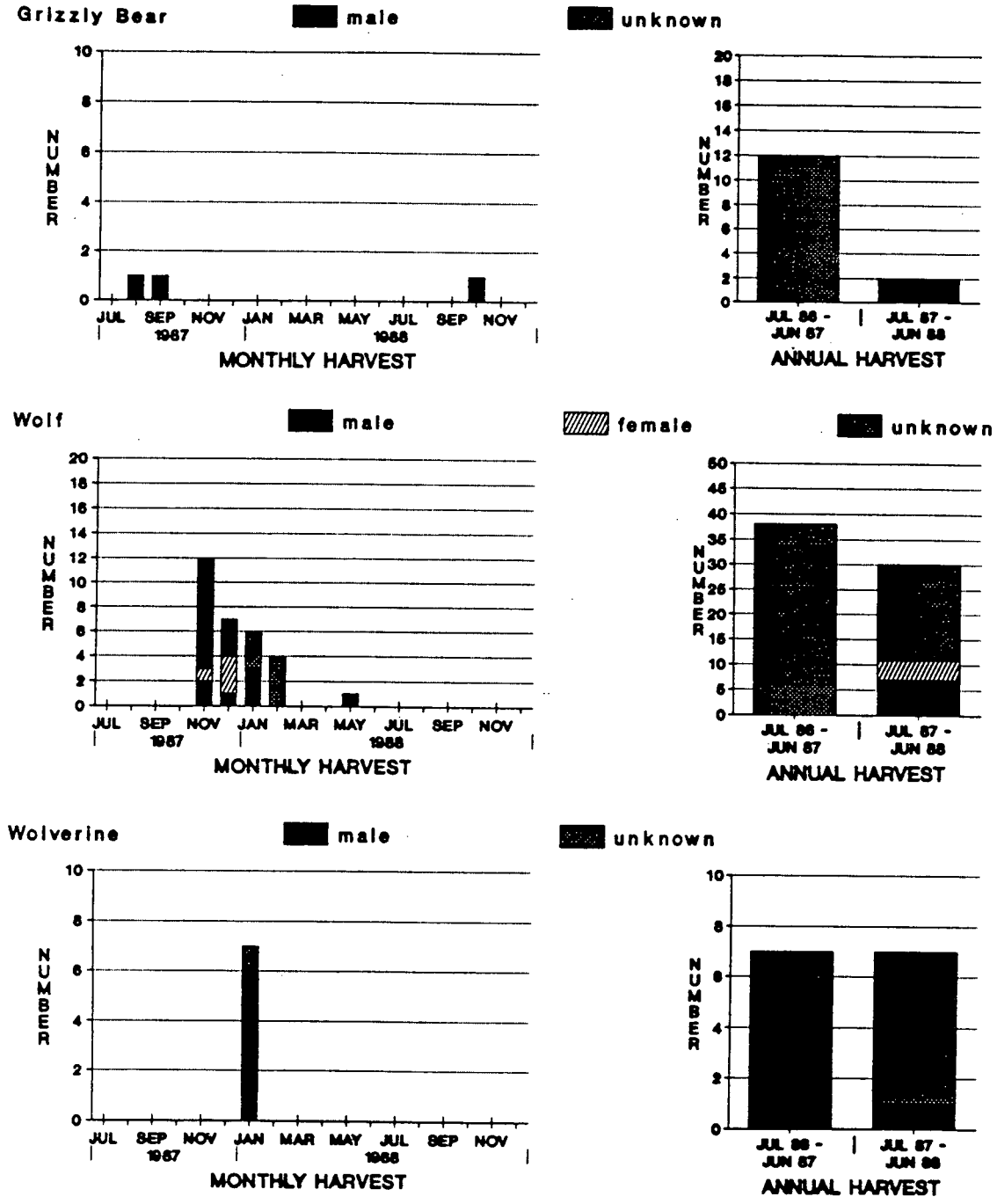


Figure 52: Monthly and annual harvests of Grizzly Bear, Wolf, and Wolverine, reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.

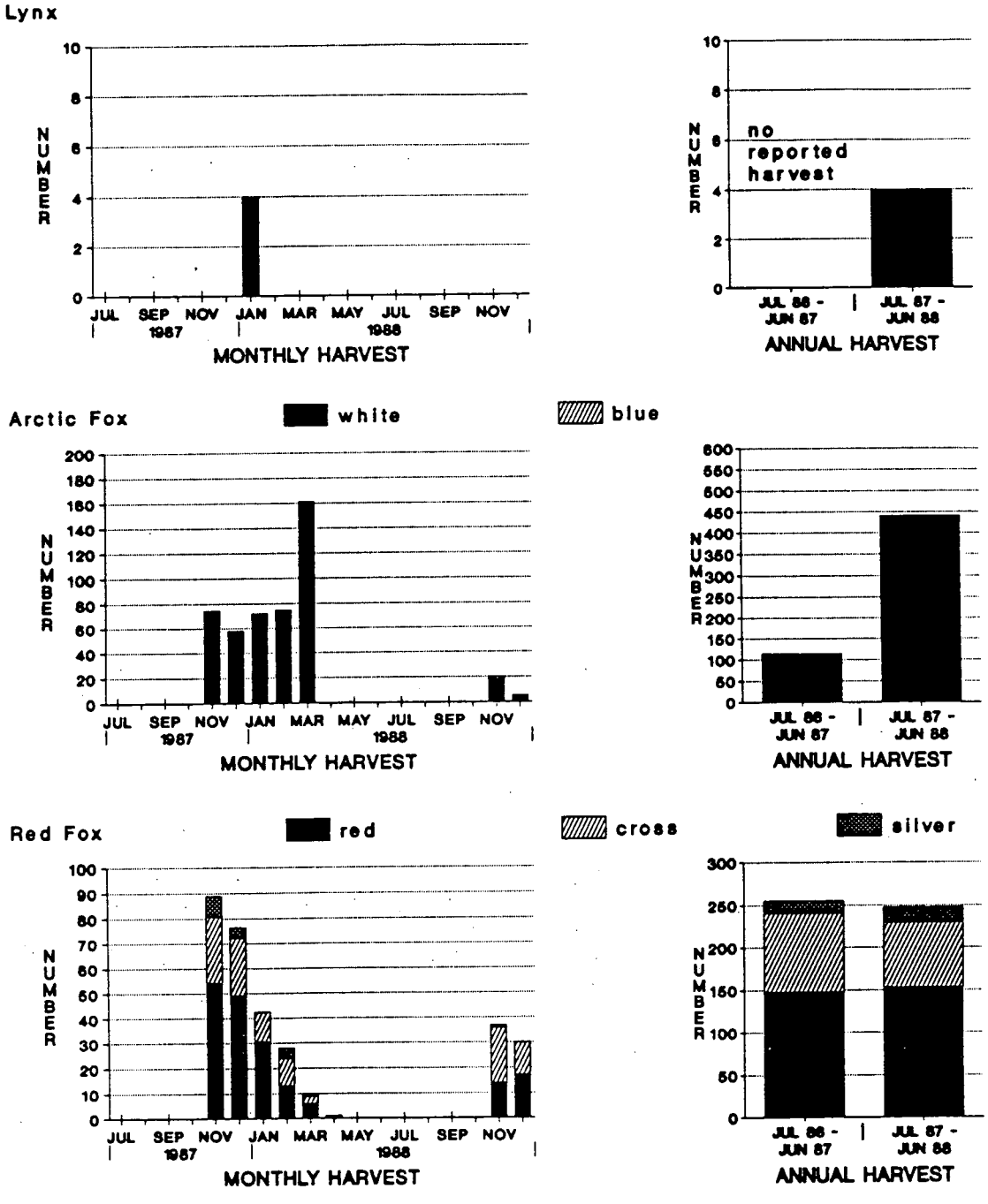
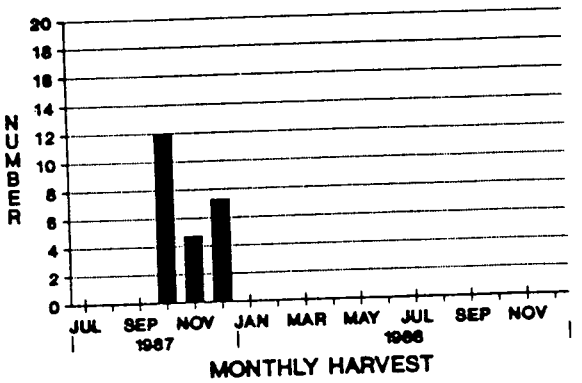
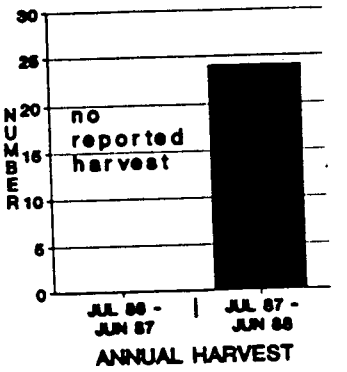


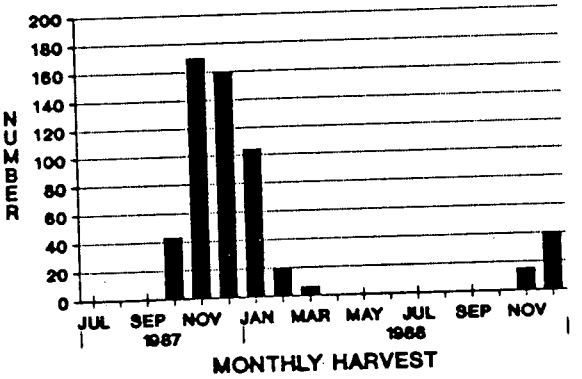
Figure 53:Monthly and annual harvests of Lynx, Arctic Fox, and Red Fox, reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.

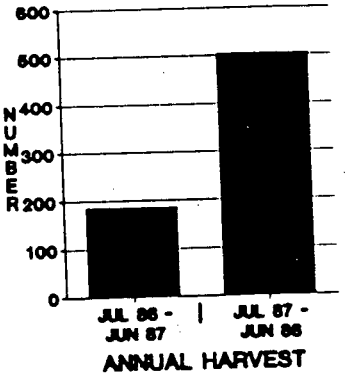
Ermine



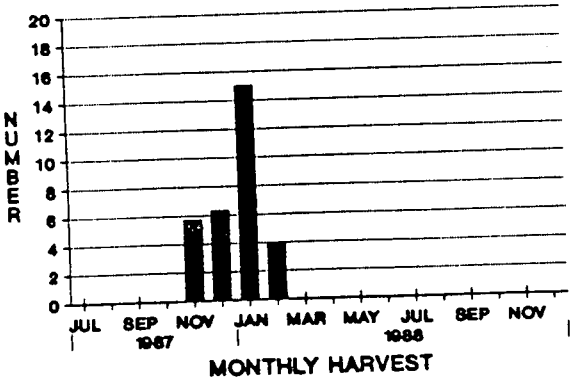


American Marten





American Mink



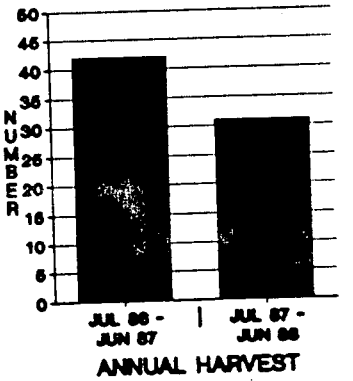
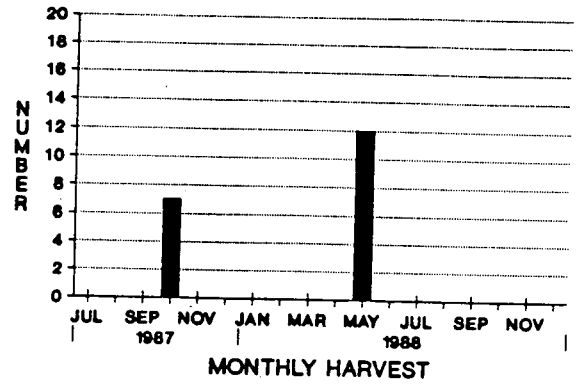
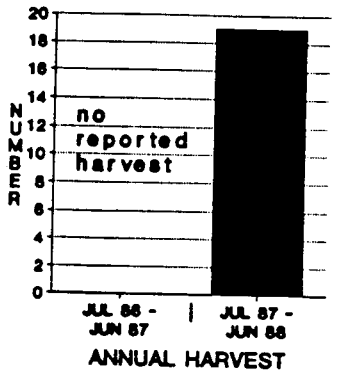


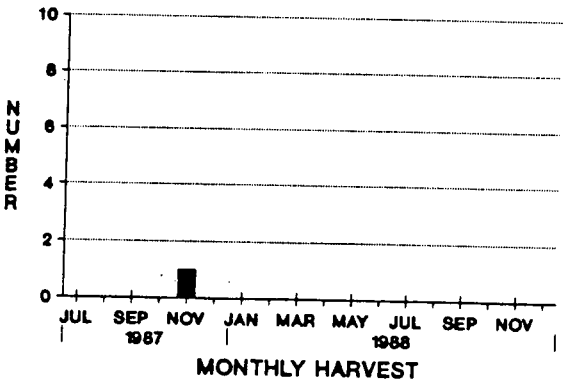
Figure 54:Monthly and annual harvests of Ermine, American Marten, and American Mink, reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.

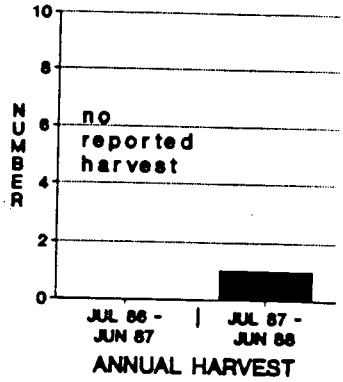
Muskrat



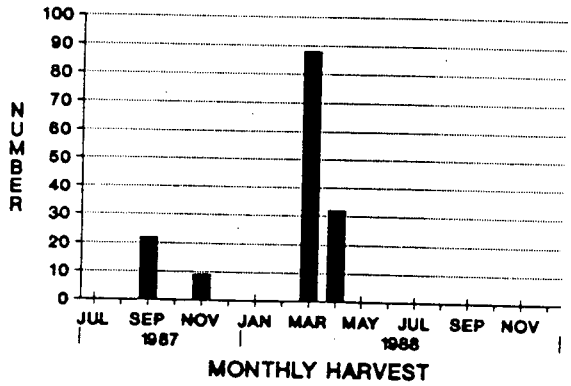


American Beaver





Hare spp.



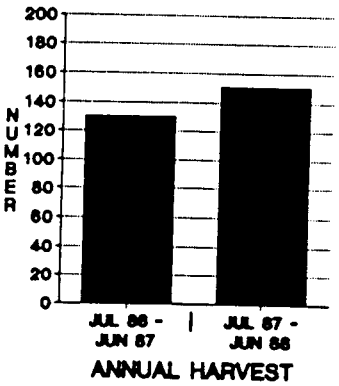
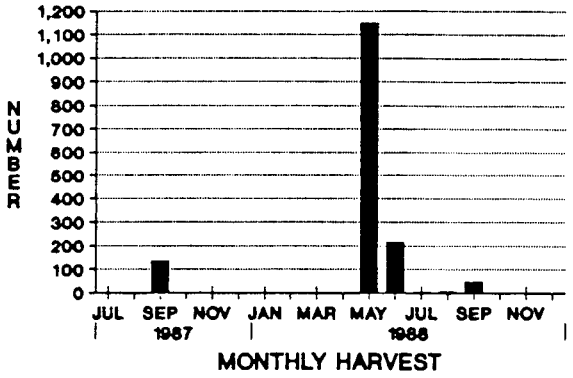
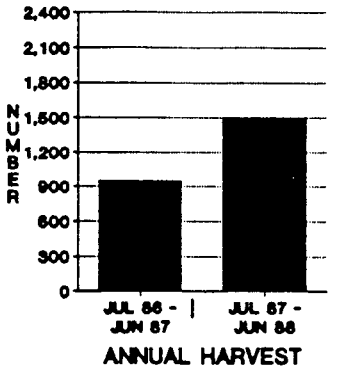


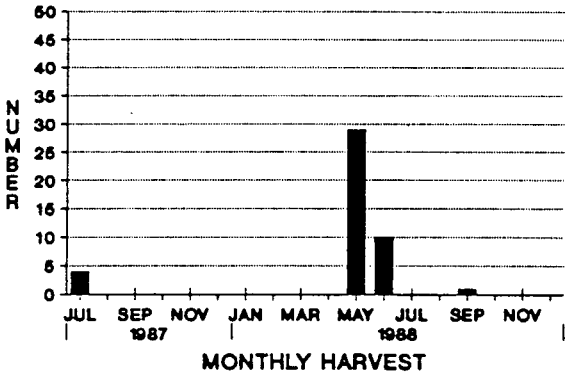
Figure 55: Monthly and annual harvests of Muskrat, American Beaver, and Hare spp., reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.

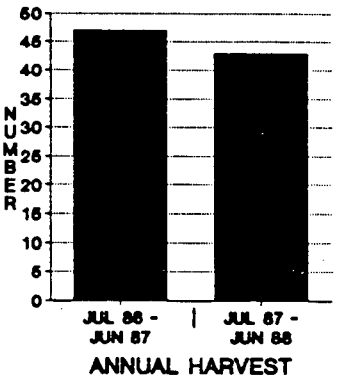
White-fronted Goose



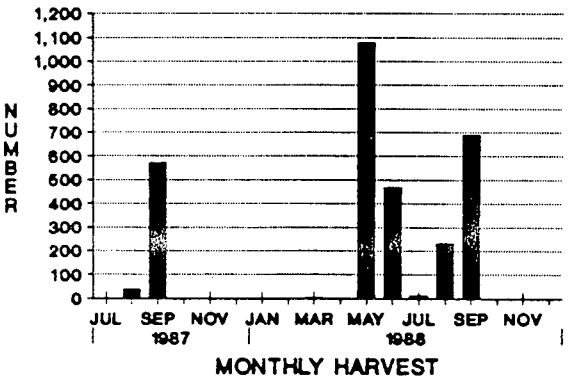


Canada Goose





Snow Goose



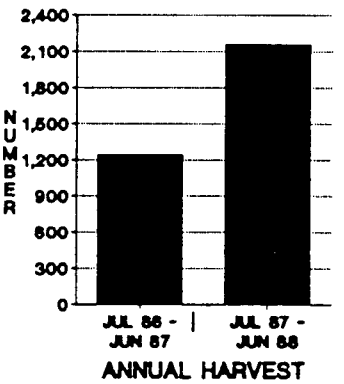
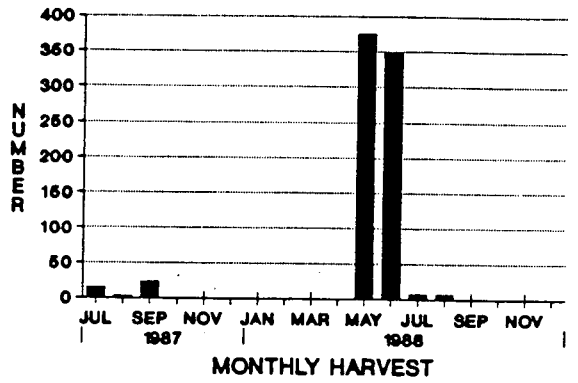
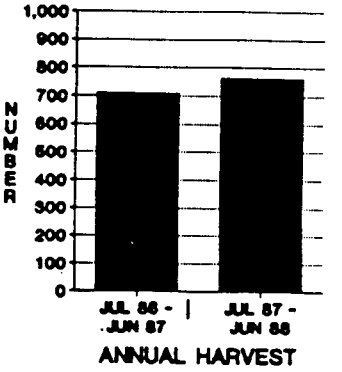


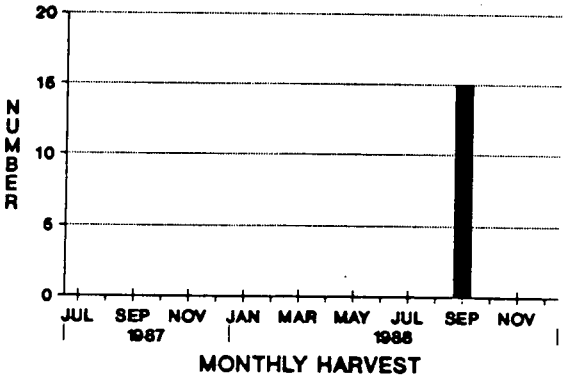
Figure 56: Monthly and annual harvests of White-fronted Goose, Canada Goose, and Snow Goose, reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.

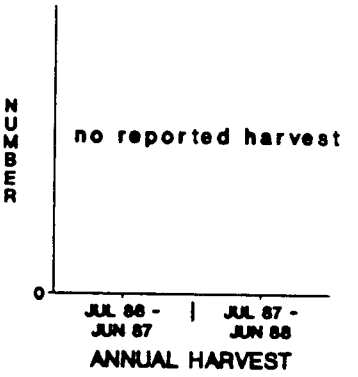
Brant



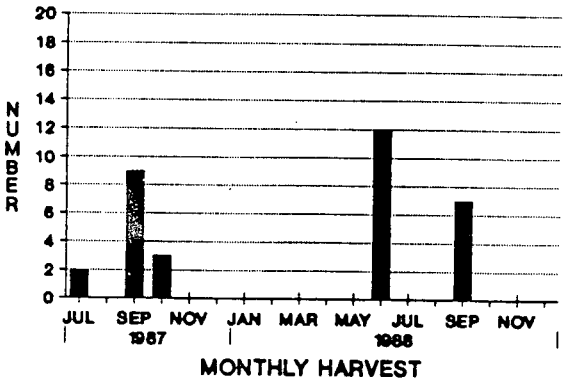


Goose spp.





Swan



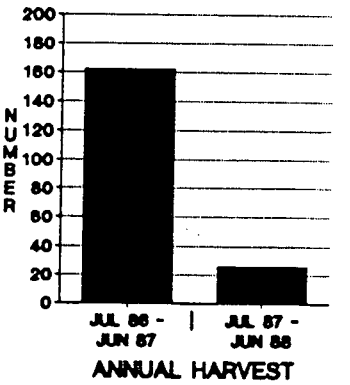


Figure 57: Monthly and annual harvests of Brant, Goose spp., and Swan, reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.

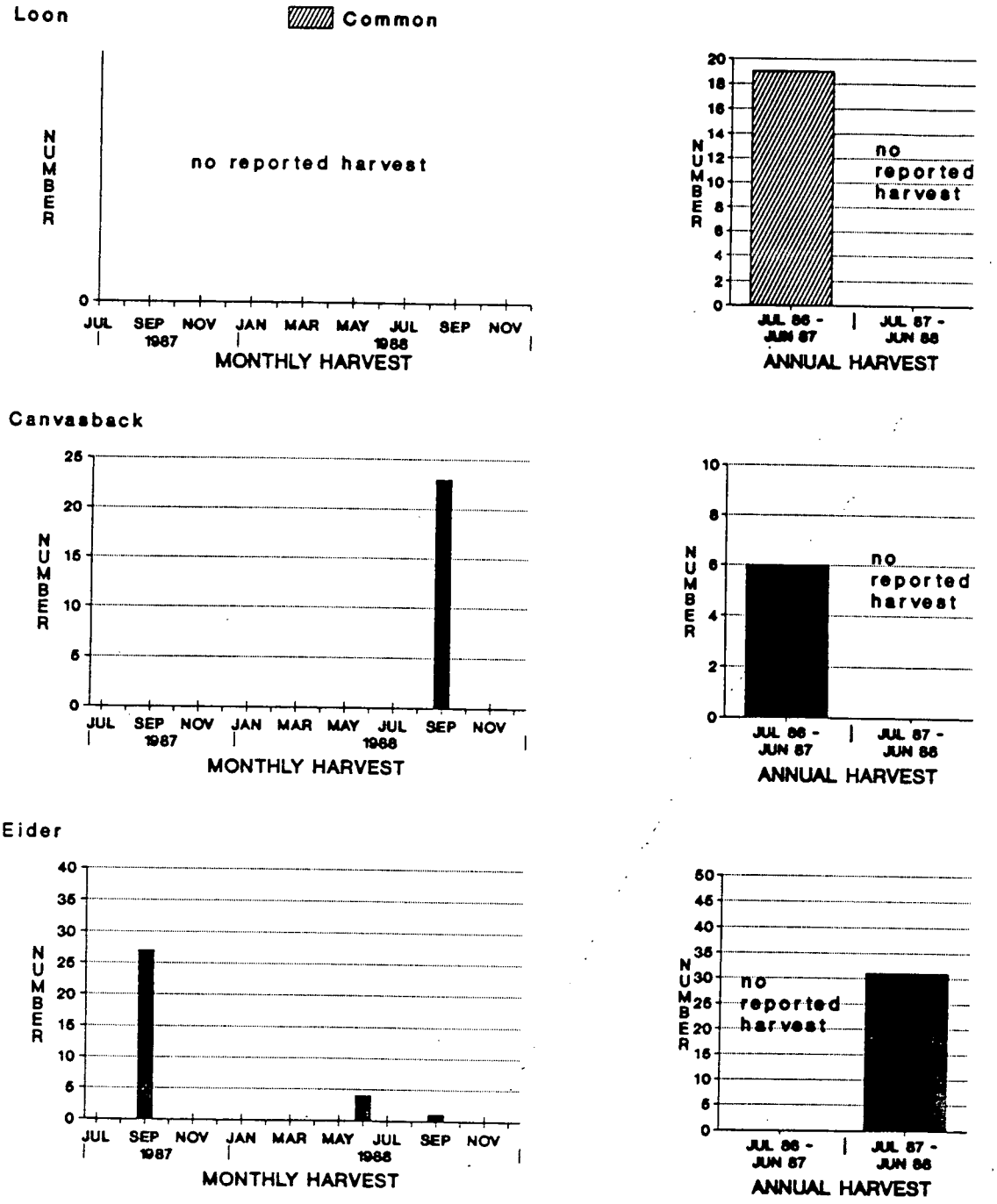
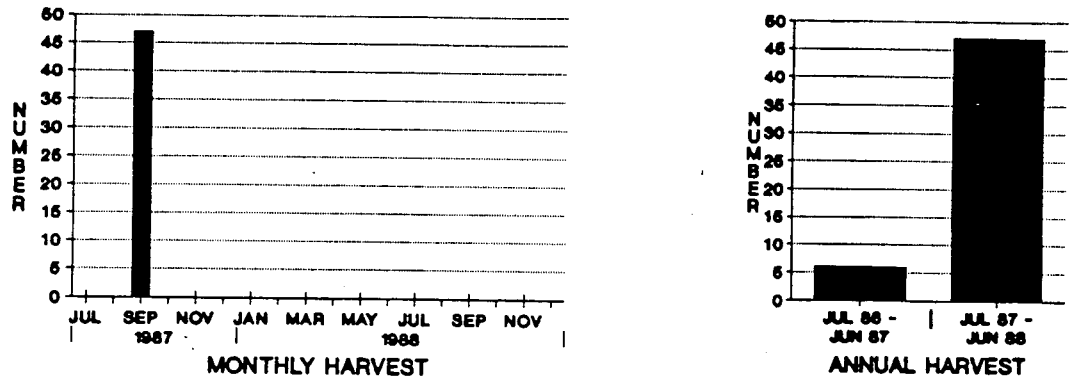
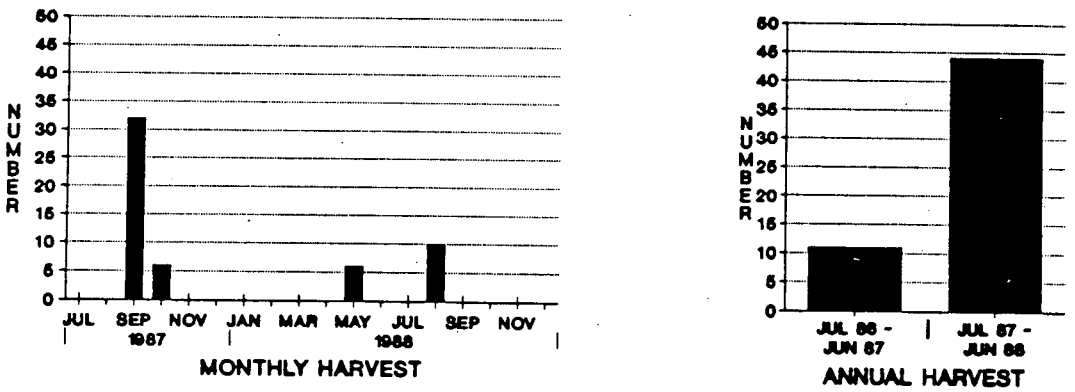


Figure 58: Monthly and annual harvests of Loon, Canvasback, and Eider, reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.

Green-winged Teal



Mallard



Merganser

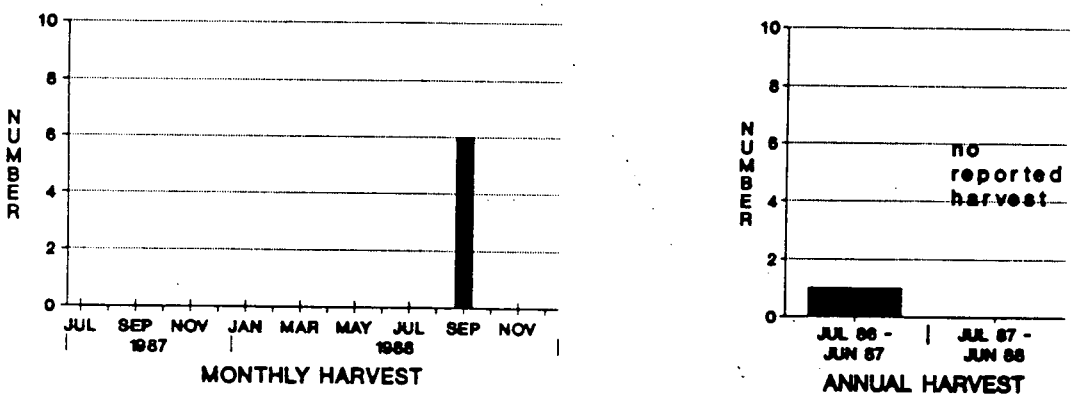
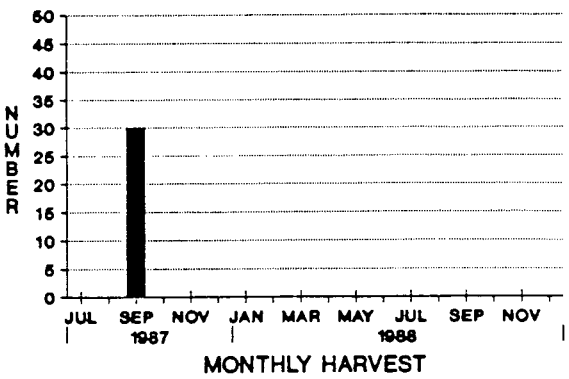
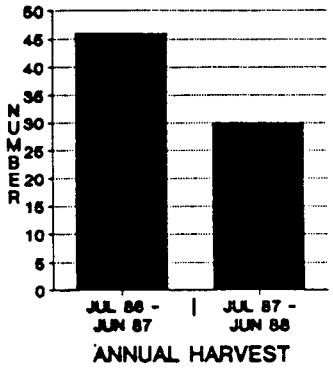


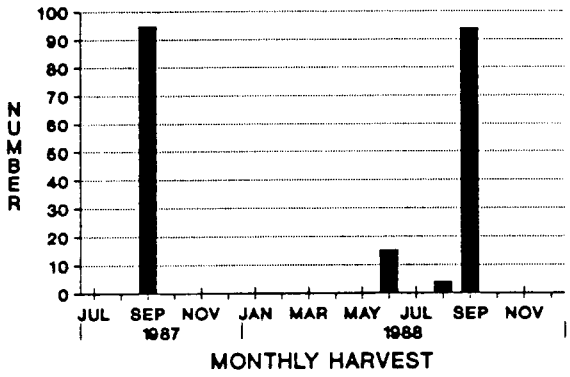
Figure 59: Monthly and annual harvests of Green-winged Teal, Mallard, and Merganser, reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.

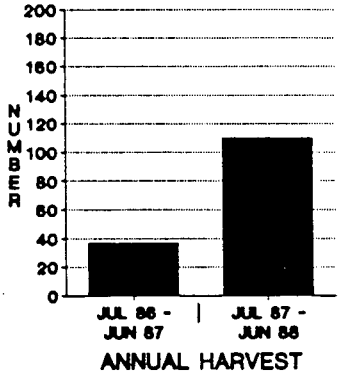
Oldsquaw



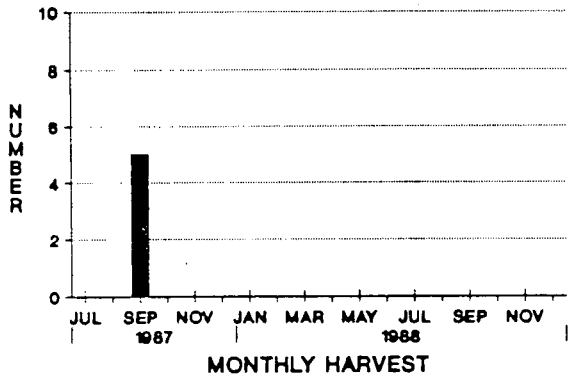


Northern Pintail





Scaup



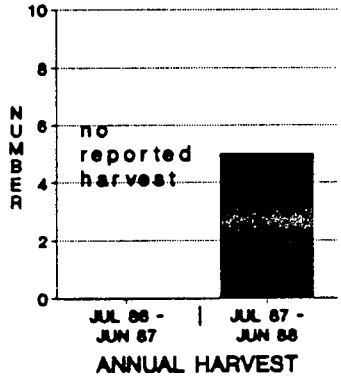
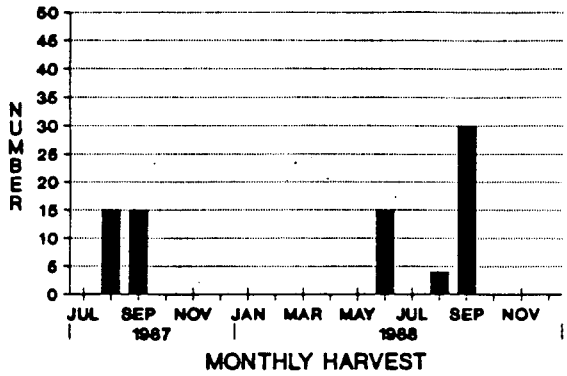
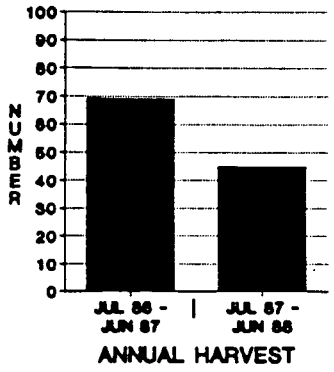


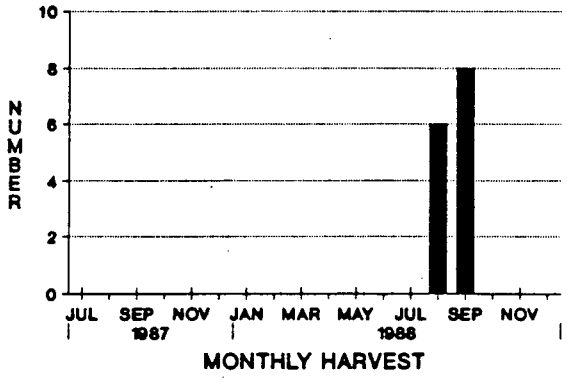
Figure 60: Monthly and annual harvests of Oldsquaw, Northern Pintail, and Scaup, reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.

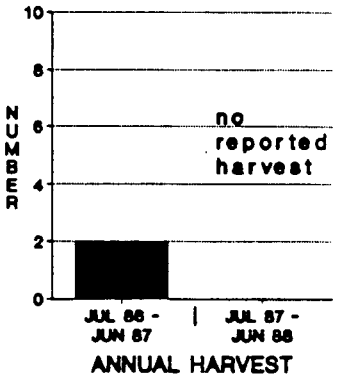
Scoter



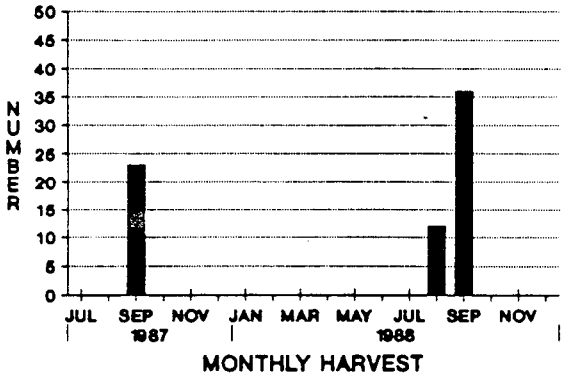


Northern Shoveler





American Widgeon



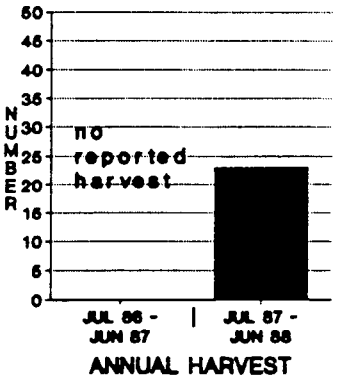
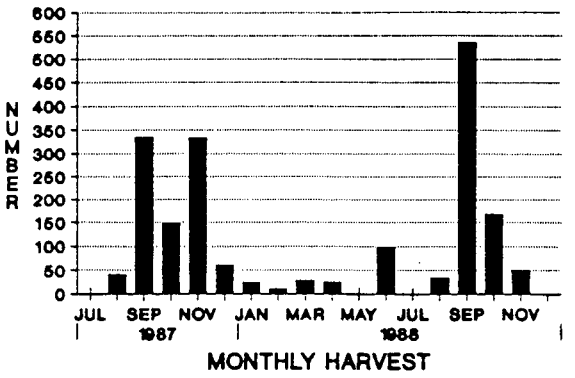


Figure 61: Monthly and annual harvests of Scoter, Northern Shoveler, and American Widgeon, reported by Tuktoyaktuk hunters, for the period July 1986 to December 1988.

Ptarmigan



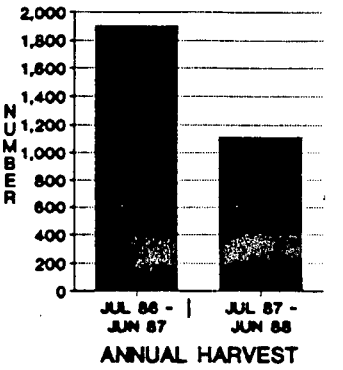


Figure 62: Monthly and annual harvests of Ptarmigan, reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.

10.8 Paulatuk

Paulatuk hunters harvested thirty four (34) species of wildlife (Table 5) including: fish (13 species), marine mammals (4), terrestrial mammals (13), and birds (17). Species harvest results are summarized in Table 5. Monthly harvests are presented graphically in Figures 63 to 78 with the associated numbers presented in Appendices 26 to 29. The known hunter population, survey coverage, number of hunters that harvested during each survey period along with the number participating in the harvest of each species are presented in Appendices 30 to 33.

Paulatuk hunter interview coverage was 100% for monthly information collected for July 1987 to December 1988 (Appendix 30). It is not known what the total hunter population was during the initial survey to collect harvest information from July 1986 to June 1987. Harvest values for July 1986 to June 1987 should be considered as minimum harvest levels.

10.8.1 Fish

Fish were harvested throughout the year, except for January and February of 1988 (Figure 63 to 66; Appendix 26). The principle season extended from June through November, with peak harvesting varying with species and year. Anadromous Arctic charr, broad whitefish, lake whitefish, and lake trout were the most important fish species harvested during July 1987 to December 1988 (Table 5). Cisco and pacific Herring were harvested in large numbers during July 1986 to June 1987, but were subsequently harvested in low numbers. Arctic and saffron cod were reportedly not harvested after June 1987.

Anadromous Arctic charr were harvested during all survey months, except during January, February, April, and December 1988. Peak harvesting months were during August and October 1987, and June through August and October 1988 (Figure 64). For comparable months between 1987 and 1988, the 1988 harvest levels were greater for all months except November (Table 5).

Broad whitefish were harvested during July to November. The harvest season differed between comparable months during 1987 and 1988 (Figure 63). During both years, July and

October were peak harvest months. However, unlike 1987, during 1988 few fish were harvested during August, September, and November. During 1988 most of the annual harvest was taken during June (Appendix 26). Subsequent to the twelve months from July 1986 to June 1987 the annual harvest of broad whitefish increased (Table 5; Appendix 26).

Lake whitefish were harvested during September to December 1987 but principally during October and November (Figure 63). This differed from 1988 where harvesting occurred only during September and October, with most fish taken in September. The 1987-88 Annual harvest levels were lower than those reported from July 1986 to June 1987.

Cisco were harvested during August to November 1987 and from June to September 1988 (Figure 65). During 1988 most fish were harvested during August whereas September was the principal harvest month in 1987.

Monthly harvest data indicate that lake trout are harvested during all months of the year except January and February 1988 (Figure 64). Fewer lake trout were harvested during 1988 than from either July to December 1987 or July 1986 to June 1987. During the comparable months of July to December in 1987 and 1988 fewer fish were harvested in 1988. Also, unlike 1987, there were no lake trout harvested in August of 1988.

Burbot, Inconnu, Northern Pike, and Arctic Grayling were harvested in low numbers and during different months between years (Figure 65,66). As well, few hunters harvested these fish species (Appendix 30).

10.8.2 Mammals

Marine mammals were not a major part of the harvest for Paulatuk hunters and trappers. Paulatuk hunters harvested Ringed Seal, Bearded Seal, Beluga, and Polar Bear (Table 5).

Ringed Seal are harvested throughout much of the year (Figure 67). Monthly harvest data indicates that this occurred principally during July 1987 and February, May, June, and September 1988. Bearded seals were harvested during July 1987 and during February, June, and July 1988 (Figure 67).

Beluga occasionally appear in waters near Paulatuk and are hunted on an opportunistic basis. They are as such harvested in low numbers and not in all years (Figure

68). Beluga were harvested during July 1986 to June 1987 but not during July 1987 to December 1988.

Polar Bears were harvested in January, February, and April 1988 (Figure 70). All harvested bears were adults, five of which were female and two were male (Appendix 28).

Paulatuk hunters harvest Caribou throughout the year (Figure 69). In 1987, harvest levels were highest from September to November. In 1988 the highest harvest levels were reported during the Spring (April, May) and the Fall (September, October).

Over the course of the monthly surveys hunters provided sex information for 98% of the Caribou harvest (Appendix 28). Similarly, age class information was obtained for 89% of the Caribou harvest. For Caribou of known sex, from July 1987 to June 1988, 53% were female and 47% were male. For Caribou of known age class 89% were adults, 11% were young of the year. Similarly, for Caribou where both sex and age were reported 51% were adult females and 38% were adult males.

Male and female Caribou were not evenly harvested throughout the year (Figure 69). Proportionately the numbers of females to males increased during the Fall through to the Spring to a point where the harvest was almost exclusively female during April and May. The harvest shifted to principally male Caribou during June to the September.

In October 1988 five adult male Caribou were harvested during guided sports hunts. It is not known how many animals were similarly harvested from July 1986 to June 1987 or if the data include these animals. Hunters were not asked to provide this type of information during the interviews.

Muskox were harvested in low numbers during the Fall to early Spring (Figure 69). During 1988 three of the five muskox harvested were taken during guided sports hunts. Two of these were taken during April and one during October 1988. It is not known how many animals were similarly harvested from July 1986 to June 1987 or if the data include these Muskox. Hunters were not asked to provide this information.

Wolf, wolverine, fox, american martin, and ermine were the principal fur bearers harvested by Paulatuk hunters (Table 5). Although varying somewhat with the species, fur bearers were generally harvested from November to April (Figure 70 to 73). Some fur

bearers were harvested, in low numbers during October (wolf, ermine, american martin) and during May (Muskrat).

Wolves were harvested from October to April with the majority of animals taken during April 1988 (Figure 70). Sex and age information indicates that, during April 1988, males, and particularly adults, made up the majority of the harvest (Appendix 28). Harvest levels varied little between years. One to three hunters harvested wolves during much of the season except for April 1988 where nine hunters harvested wolves (Appendix 32). This also corresponded to the largest monthly harvest of wolves.

Wolverine were harvested from November to April with the harvest fairly evenly distributed over these months (Figure 71). Sex and age information was not complete enough to indicate a pattern to this harvest (Appendix 28). One to four hunters harvested wolverine during each month (Appendix 32). The annual harvest was fairly similar between years.

Fox were harvested from November to March (Figure 71). From November 1987 to March 1988 this harvest was primarily made up of white Arctic Fox. The largest number were harvested during December 1987 by 15 hunters (Appendix 32).

Annual comparison from July 1986 to June 1987 and July 1987 to June 1988, indicates that total fox harvest more than doubled during the 1987-88 season (Figure 71). The number of hunters harvesting fox decreased from 27, in the 86-87 season, to 24 during the 87-88 season (Appendix 32).

Ermine were harvested from November to December 1987 and during October and November 1988 (Figure 72). No Ermine were reported harvested during July 1986 to June 1987.

American Martin were harvested during October to February with the largest seasonal harvest reported during November in both 1987 and 1988 (Figure 72). The 1987-88 harvest was lower than that during the 1986-87 season although two more hunters harvested Martin during this time.

Over the course of the study Muskrat and Hare were harvested in low numbers by only a few hunters (Figure 73; Appendix 32).

10.8.3 Birds

Geese, primarily snow geese, were the principal waterfowl harvested by Paulatuk hunters (Table 5). These were principally harvested by most of the hunters during May (Figure 74,75; Appendix 33). Small numbers of geese were also harvested by a few hunters during June, July, and September of 1988 (white-fronted geese during June and September; Canada geese during June and July; snow geese during September; brant during June).

Ducks were generally harvested in low numbers from May through September (Figure 76 to 78) with the particular season varying depending on the species. Of all the ducks oldsquaw and eider were harvested in the largest numbers by the most hunters (Figure 76,77; Appendix 33). Oldsquaw were harvested from May through September. Eider were harvested during July and August in 1987, and May, June, and September in 1988.

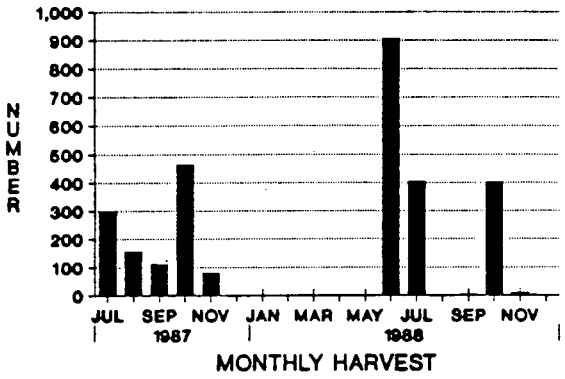
Swans were reportedly harvested by 18 hunters during July 1986 to June 1987 and 13 hunters during May 1988 (Appendix 33). There was a reluctance to report the harvest of Swans and as such their numbers should be considered as minimum values (Figure 75).

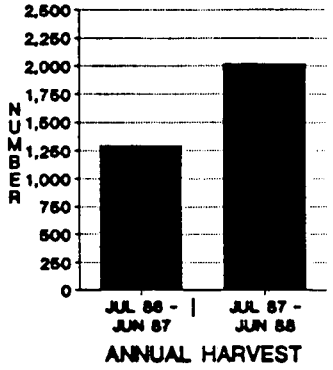
Monthly data indicate that ptarmigan were harvested during all months except: July 1987, and June and July 1988 (Figure 78). Peak harvest months were September through November 1987, and February through April, and September through October 1988. Comparable Monthly data for 1987 and 1988 indicate that harvest levels during 1988 declined.

ANIMAL NAME	HARVESTING PERIOD AND NUMBER HARVESTED JULY 1986 TO JUNE 1987	JULY 1987 TO DECEMBER 1987	1988
FISH			
Arctic Charr - anadromous	3153	1834	2829
- landlocked	490	55	162
Broad Whitefish	1298	1111	1722
Lake Whitefish	2165	840	412
Whitefish spp.			44
Cisco	4100	131	253
Pacific Herring	446	46	38
Arctic Cod	268		
Saffron Cod	382		
Lake Trout	1044	597	440
Burbot	48	36	4
Inconnu			1
Northern Pike		1	2
Arctic Grayling	118	12	10
MAMMALS			
Ringed Seal	113	18	55
Bearded Seal	17	4	5
Seal spp.			4
Beluga	3		
Caribou	647	394	665
Muskox	10	5	5
Moose			1
Polar Bear	*		7
Grizzly Bear		2	
Wolf	44	6	43
Wolverine	23	7	19
Arctic Fox - white	71	350	184
- blue	1	1	
Red Fox - red	98	34	46
- cross	85	16	35
- silver	4	2	
Total Fox Harvest	259	403	265
Ermine		55	16
American Marten	167	105	77
American Mink	3	2	4
Muskrat	245		1
Hare spp.	11	6	5
BIRDS			
Greater White-fronted Goose	433		377
Canada Goose	374		334
Snow Goose	1283		1507
Snow Goose (blue)	2		3
Brant	57		23
Ross Goose	6		
Swan	43		27
Arctic Loon	25		
Common Loon	10	2	6
Yellow-billed Loon	32		2
Canvasback	15	1	
Eider	131	61	35
Merganser	56	21	12
Oldsquaw	264	100	187
Northern Pintail	46		12
Scaup			12
Scoter	39		1
Ptarmigan	2094	698	971

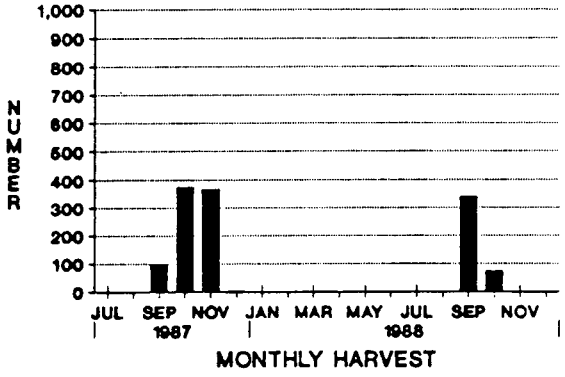
Table 5: Reported fish and wildlife harvest by hunters from Paulatuk, N.W.T., from July 1986 to December 1988.
* = no data were collected for July 1986 to June 1987

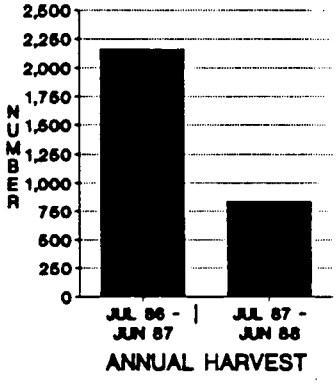
Broad Whitefish



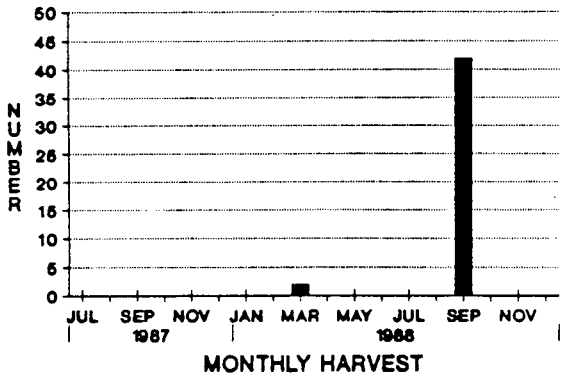


Lake Whitefish





Whitefish spp.



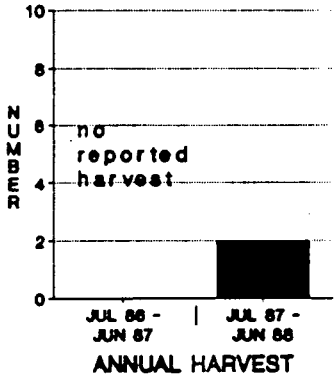


Figure 63: Monthly and annual harvests of Broad Whitefish, Lake Whitefish, and Whitefish spp., reported by Paulatuk (N.W.T.) hunters, for period July 1986 to December 1988.

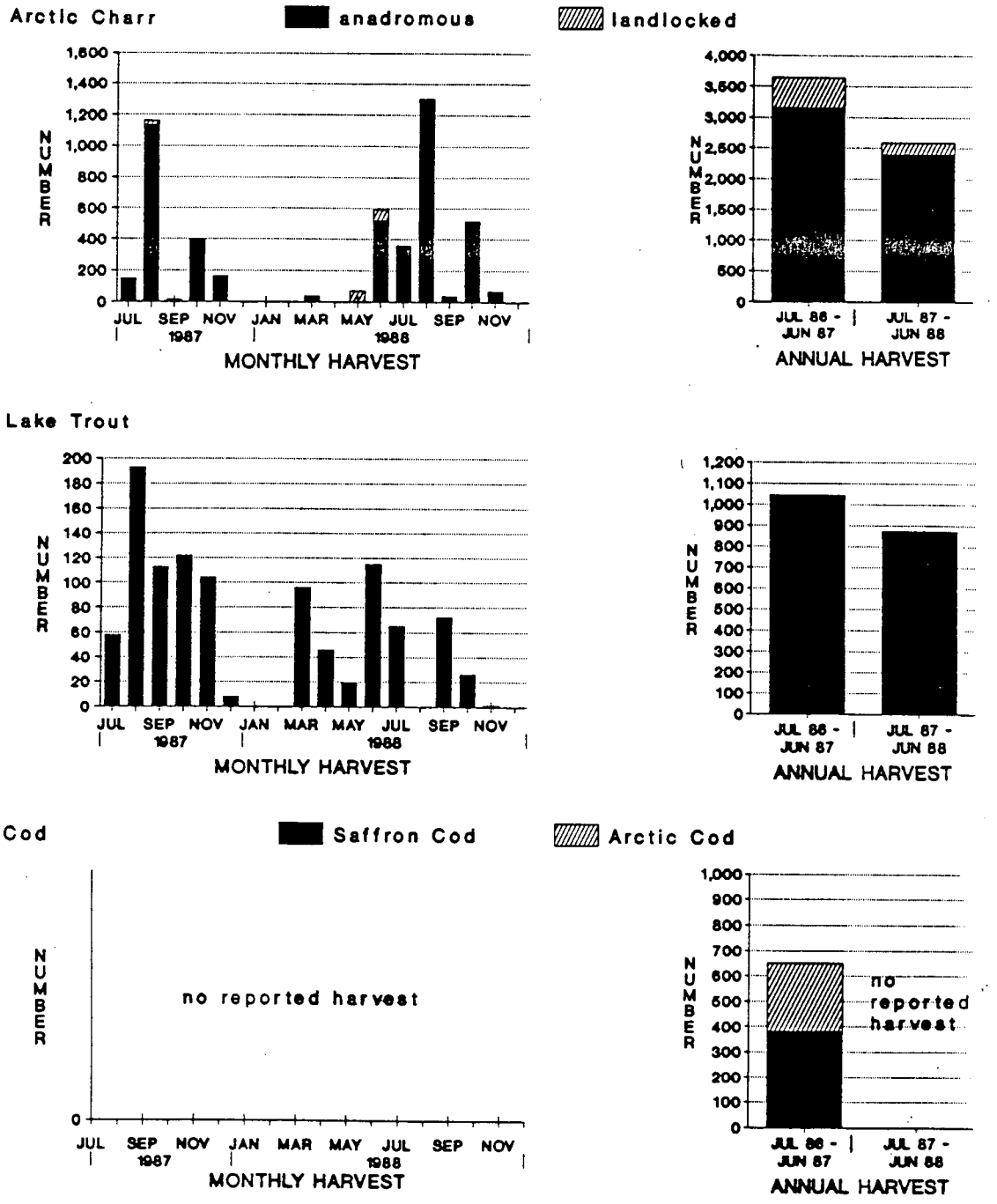
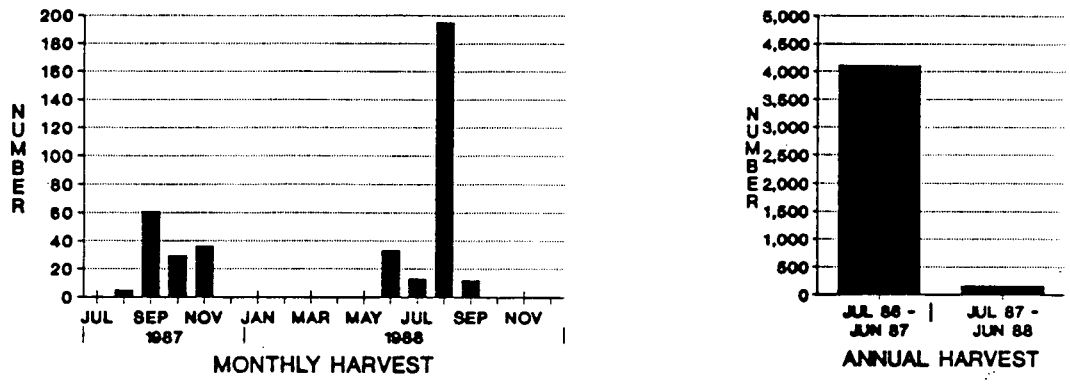
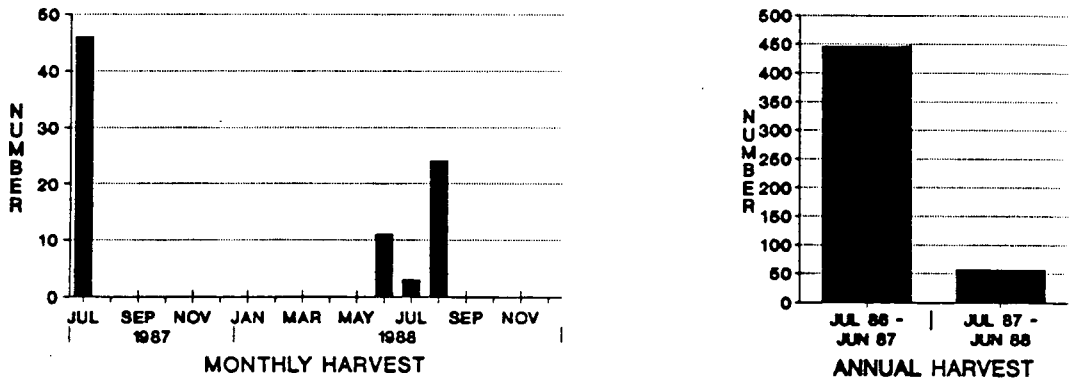


Figure 64: Monthly and annual harvests of Arctic Charr, Lake Trout, and Cod, reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.

Cisco



Pacific Herring



Burbot

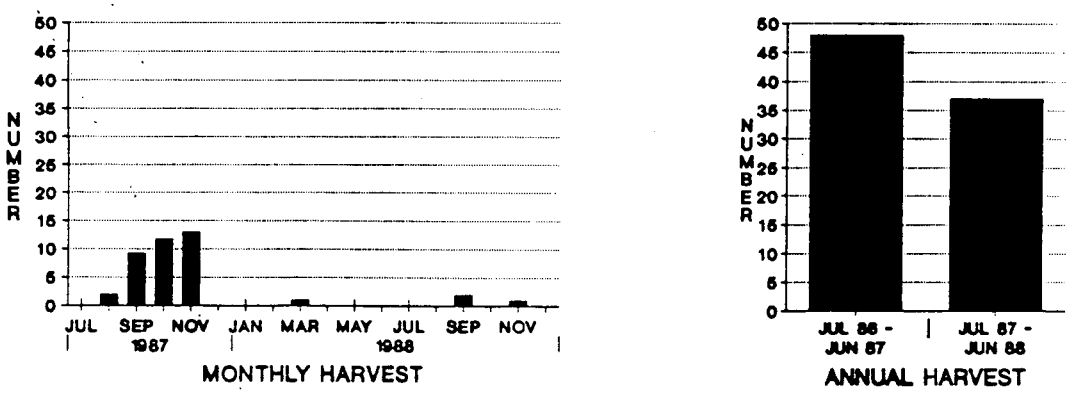
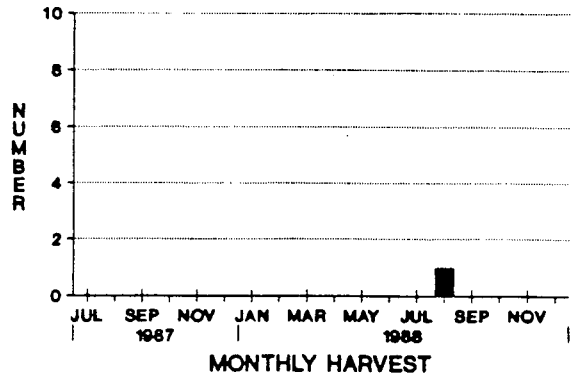
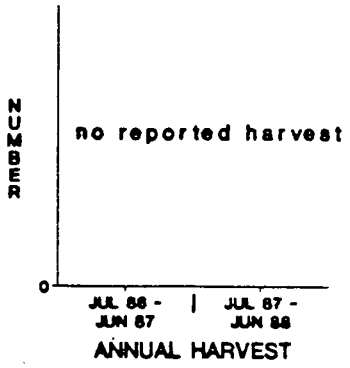


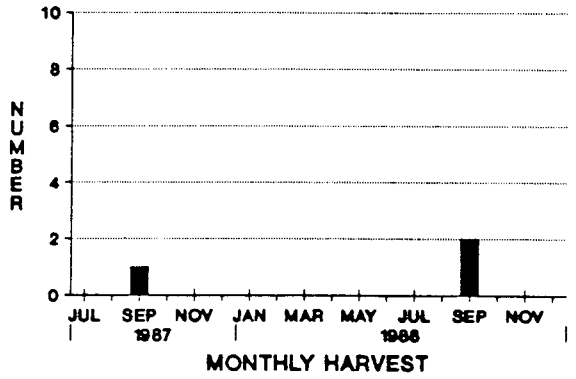
Figure 65: Monthly and annual harvests of Cisco, Pacific Herring, and Burbot, reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.

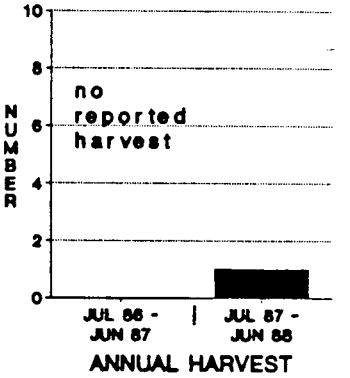
Inconnu



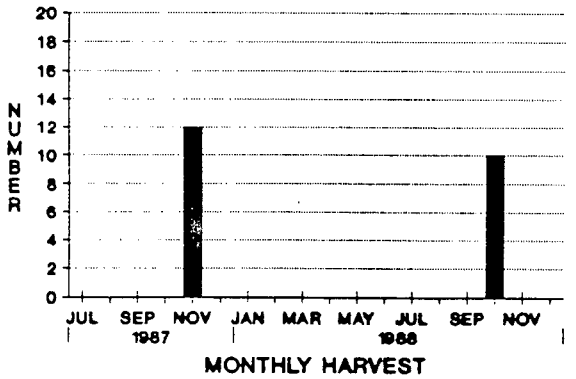


Northern Pike





Arctic Grayling



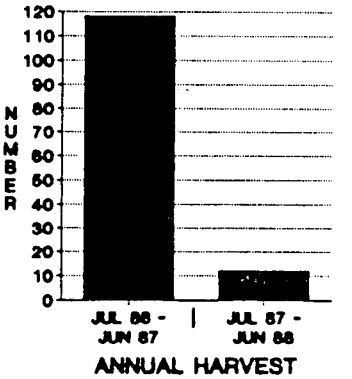
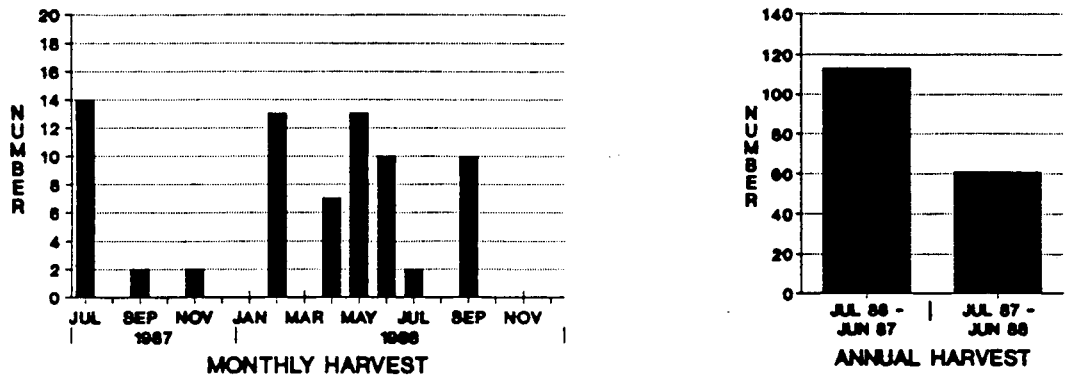
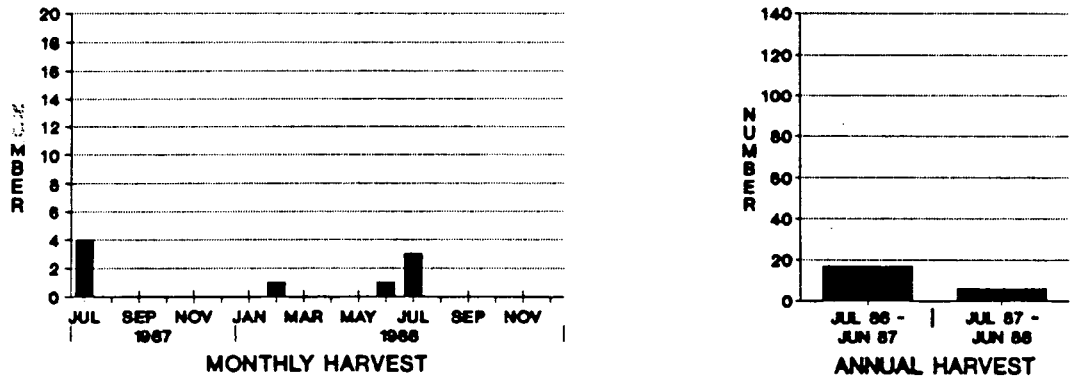


Figure 66: Monthly and annual harvests of Inconnu, Northern Pike, and Arctic Grayling, reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.

Ringed Seal



Bearded Seal



Seal spp.

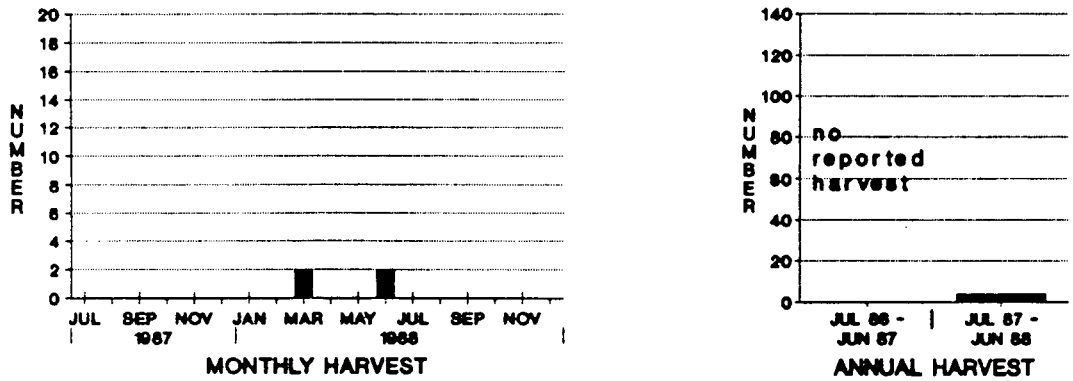


Figure 67: Monthly and annual harvests of Ringed Seal, Bearded Seal, and Seal spp., reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.

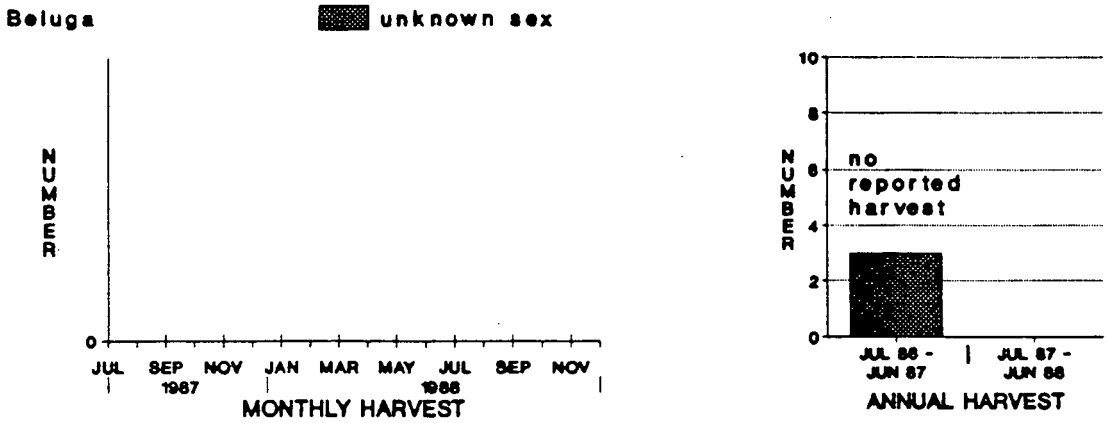


Figure 68:Monthly and annual harvests of Beluga, reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.

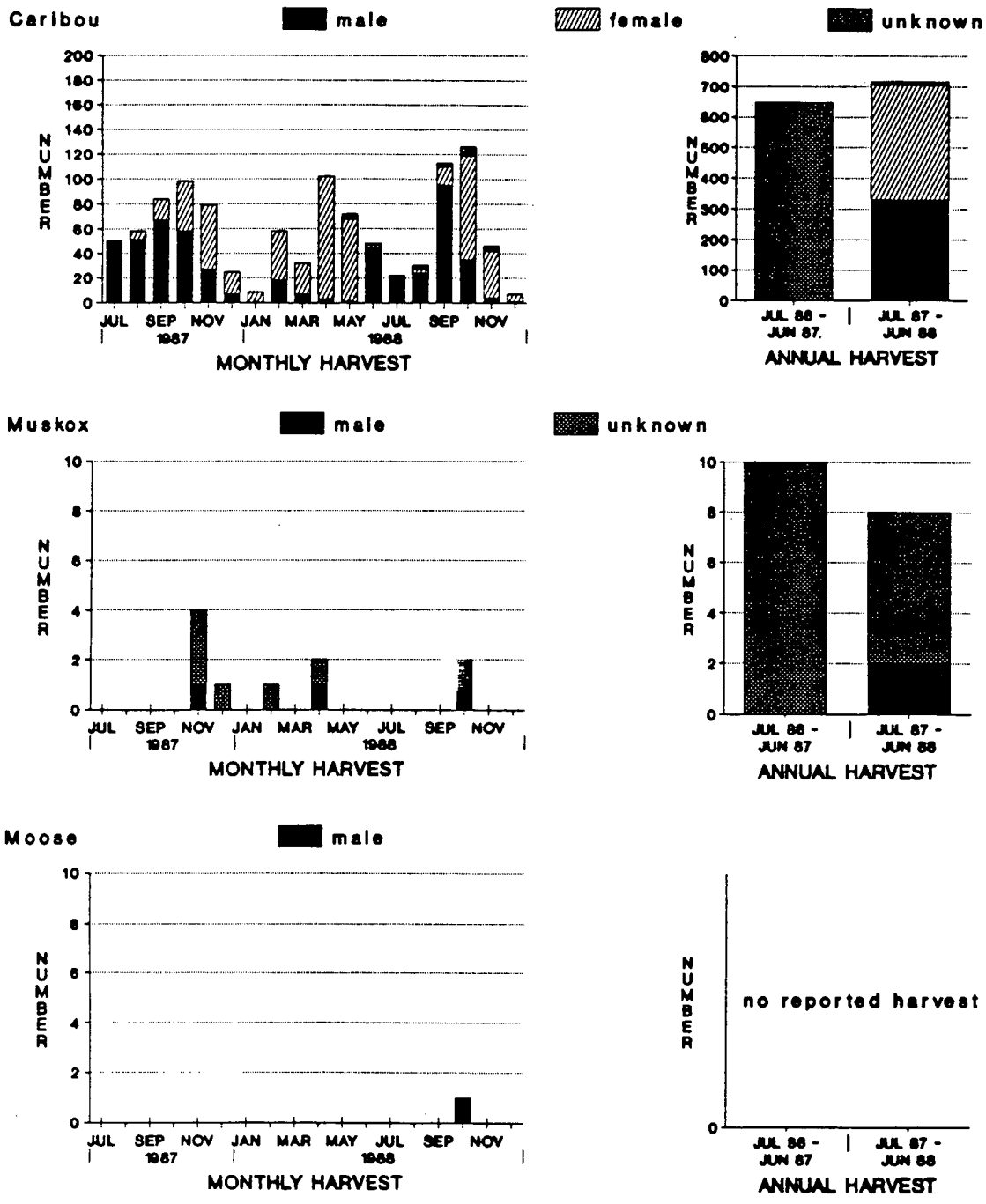


Figure 69:Monthly and annual harvests of Caribou, Muskox, and Moose, reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.

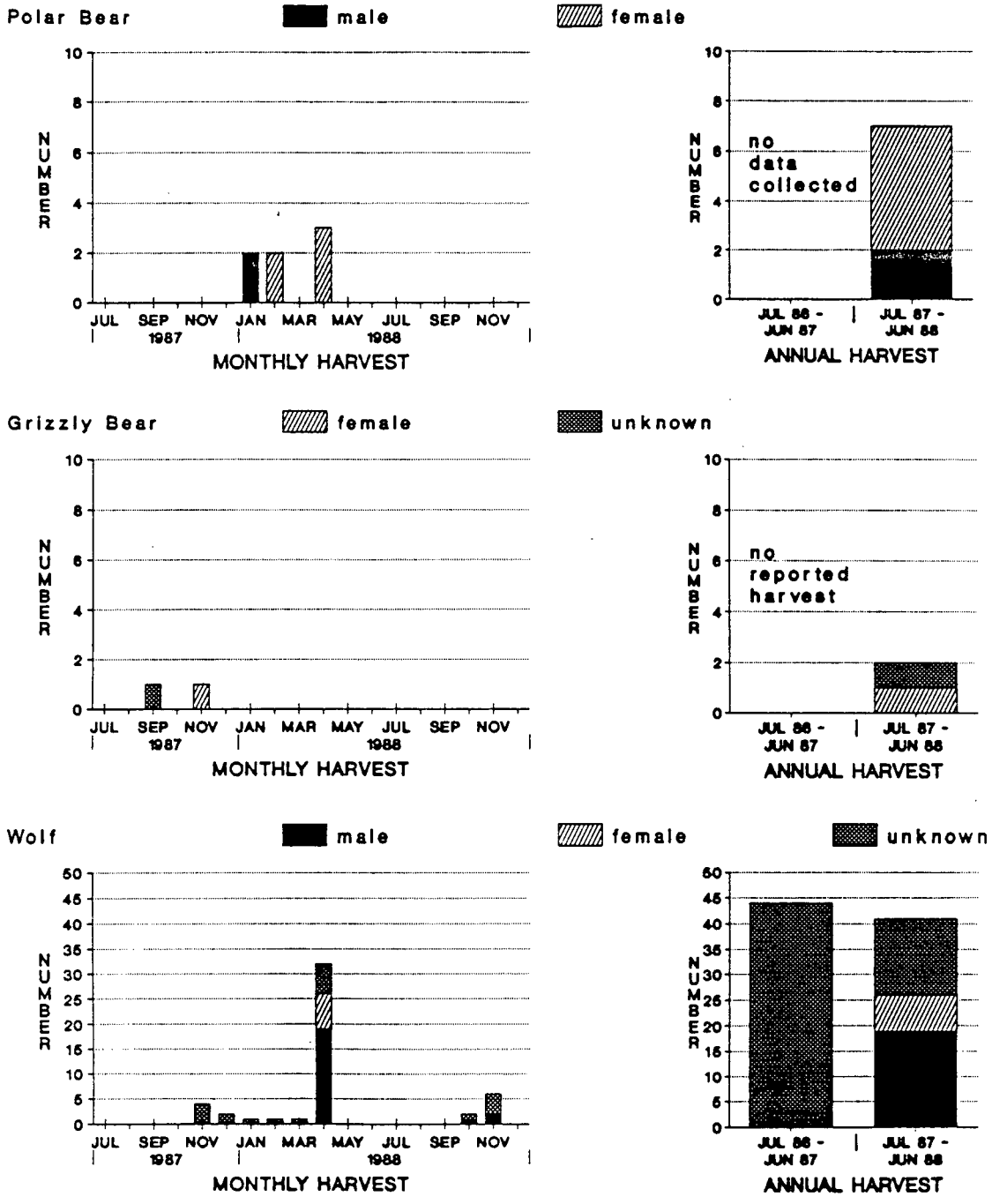


Figure 70:Monthly and annual harvests of Polar Bear, Grizzly Bear, and Wolf, reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.

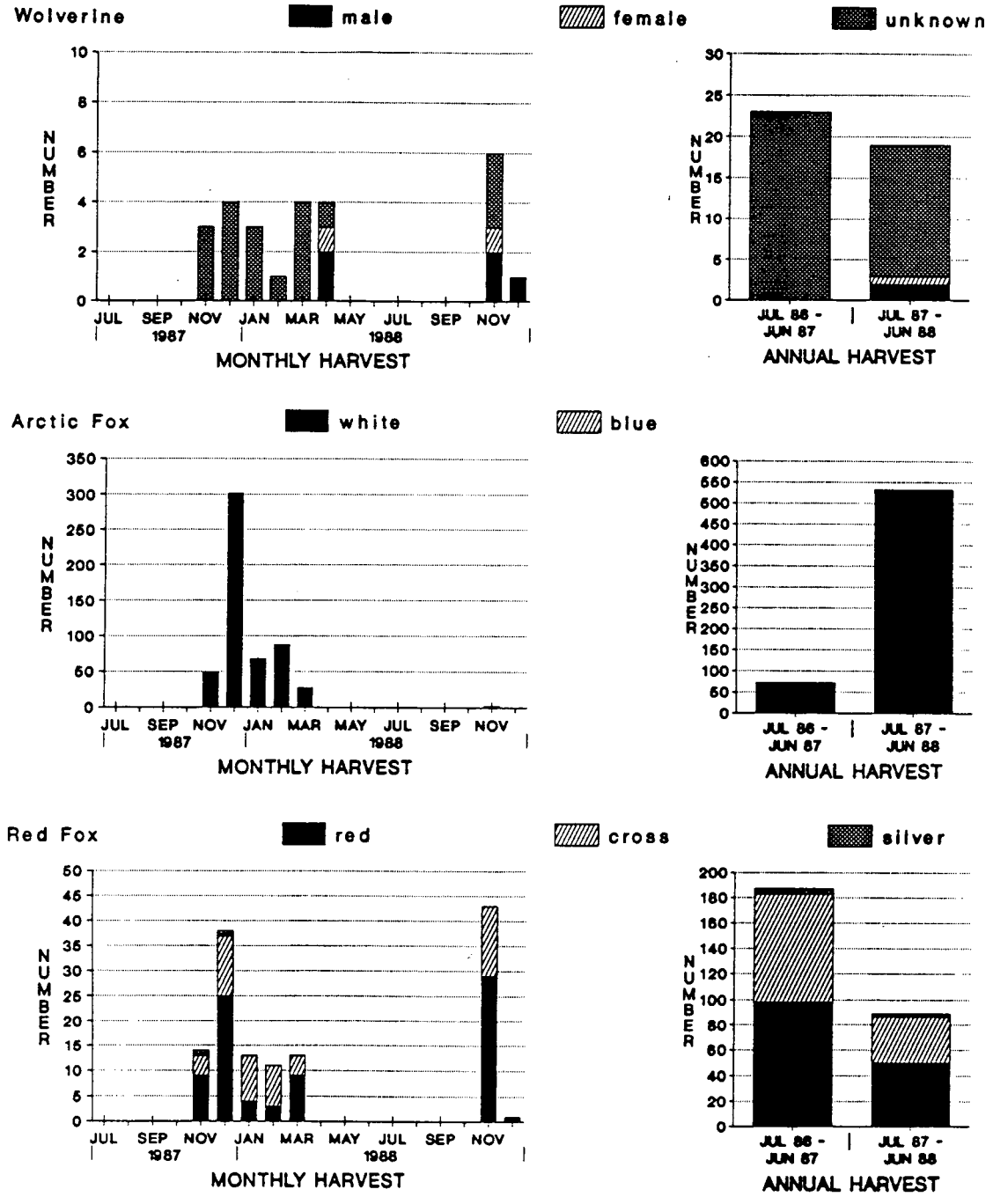
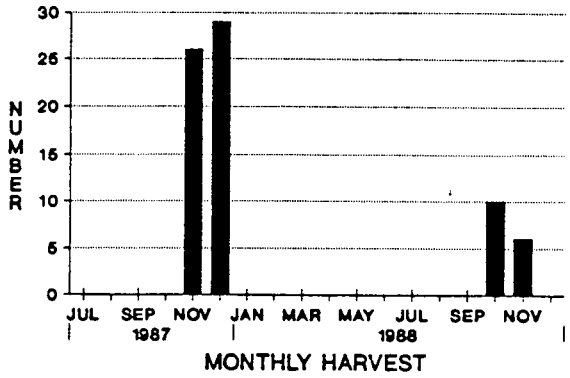
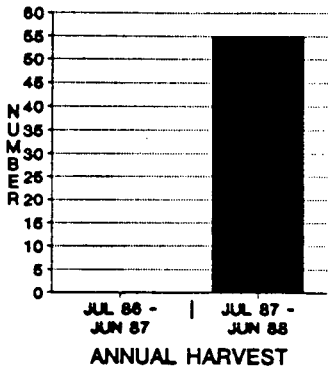


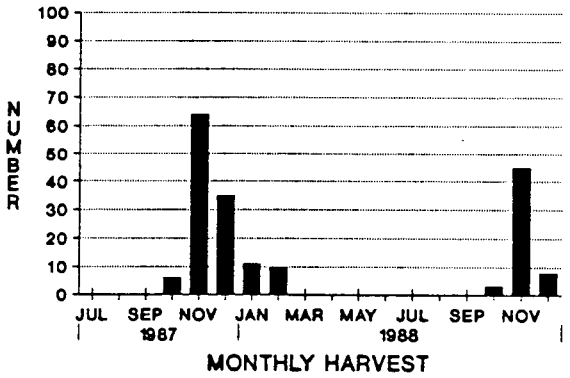
Figure 71: Monthly and annual harvests of Wolverine, Arctic Fox, and Red Fox, reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.

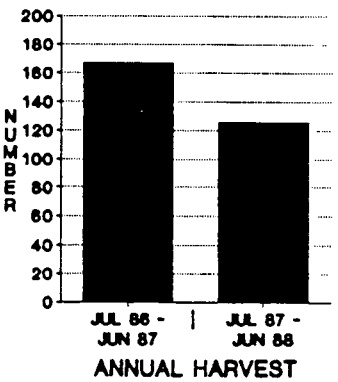
Ermine



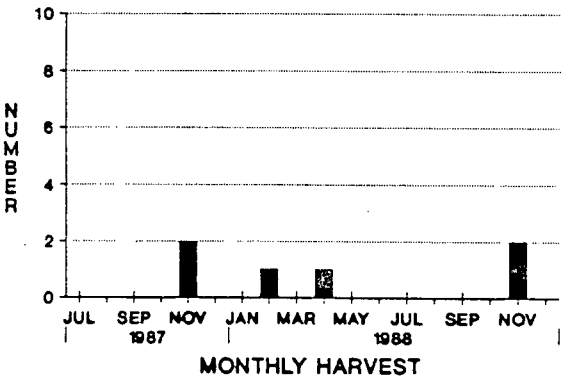


American Marten





American Mink



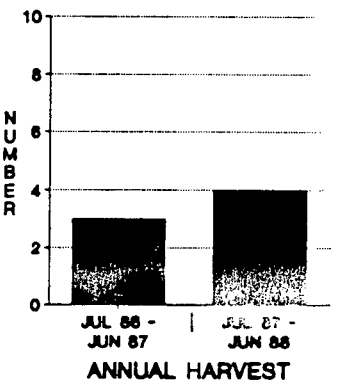
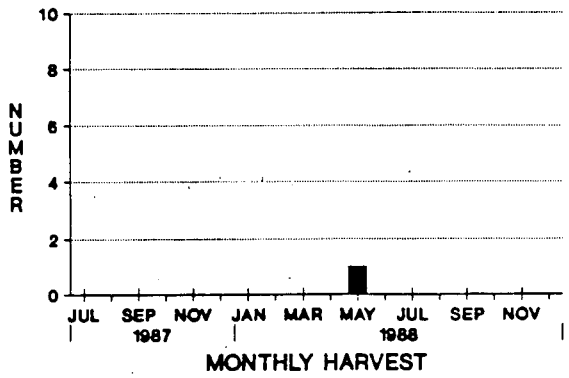
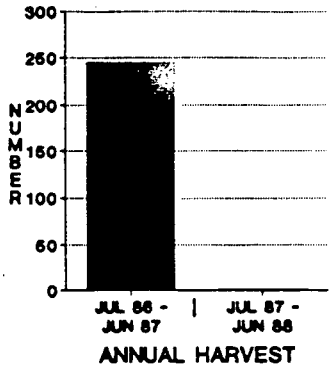


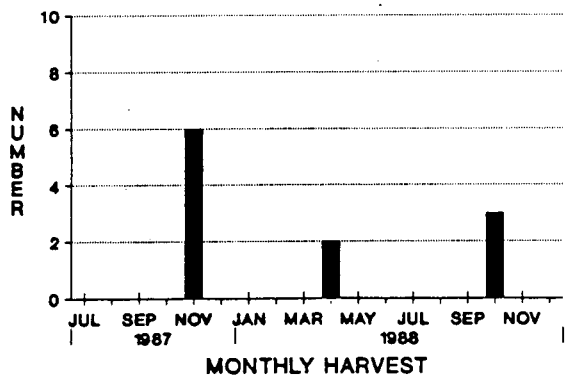
Figure 72: Monthly and annual harvests of Ermine, American Marten, and American Mink, reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.

Muskrat





Hare spp.



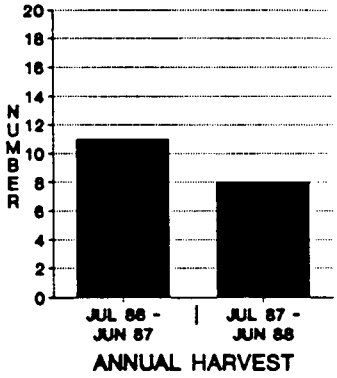


Figure 73: Monthly and annual harvests of Muskrat and Hare spp., reported by Paulatuk (N.W.T.) hunters for the period July 1986 to December 1988.

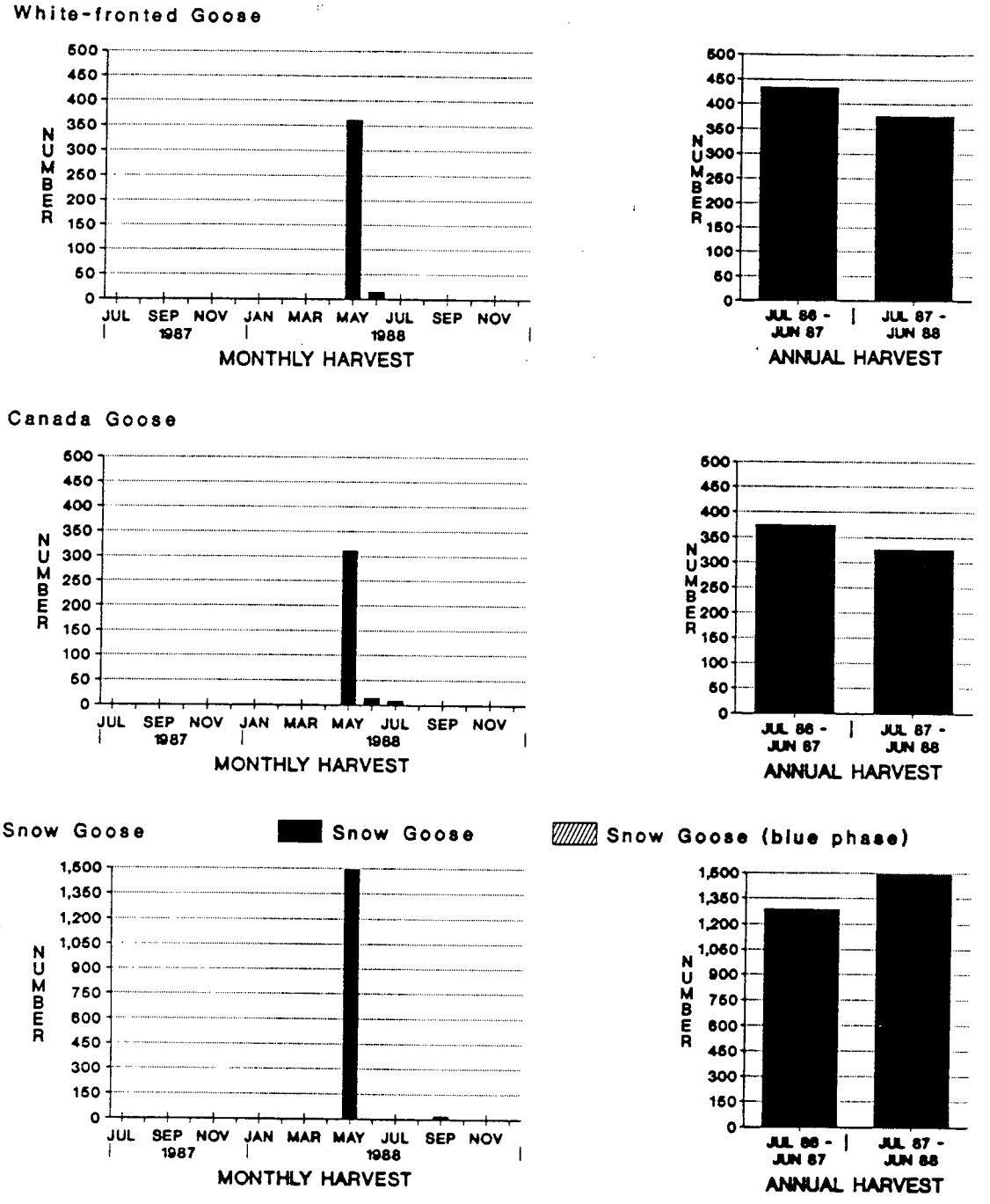
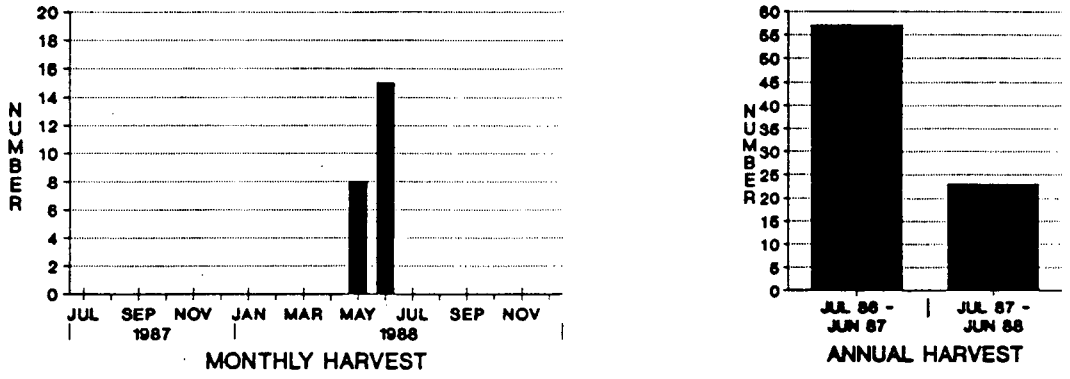
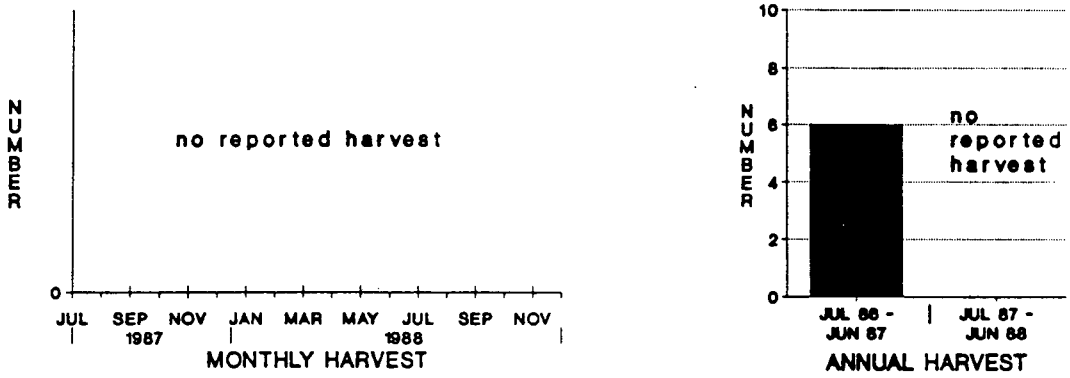


Figure 74: Monthly and annual harvests of White-fronted Goose, Canada Goose, and Snow Goose, reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.

Brant



Ross Goose



Swan

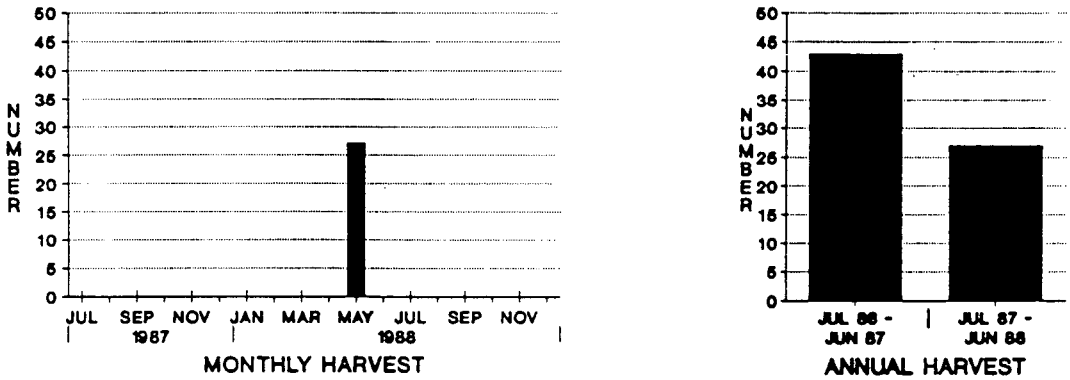


Figure 75: Monthly and annual harvests of Brant, Ross Goose, and Swan, reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.

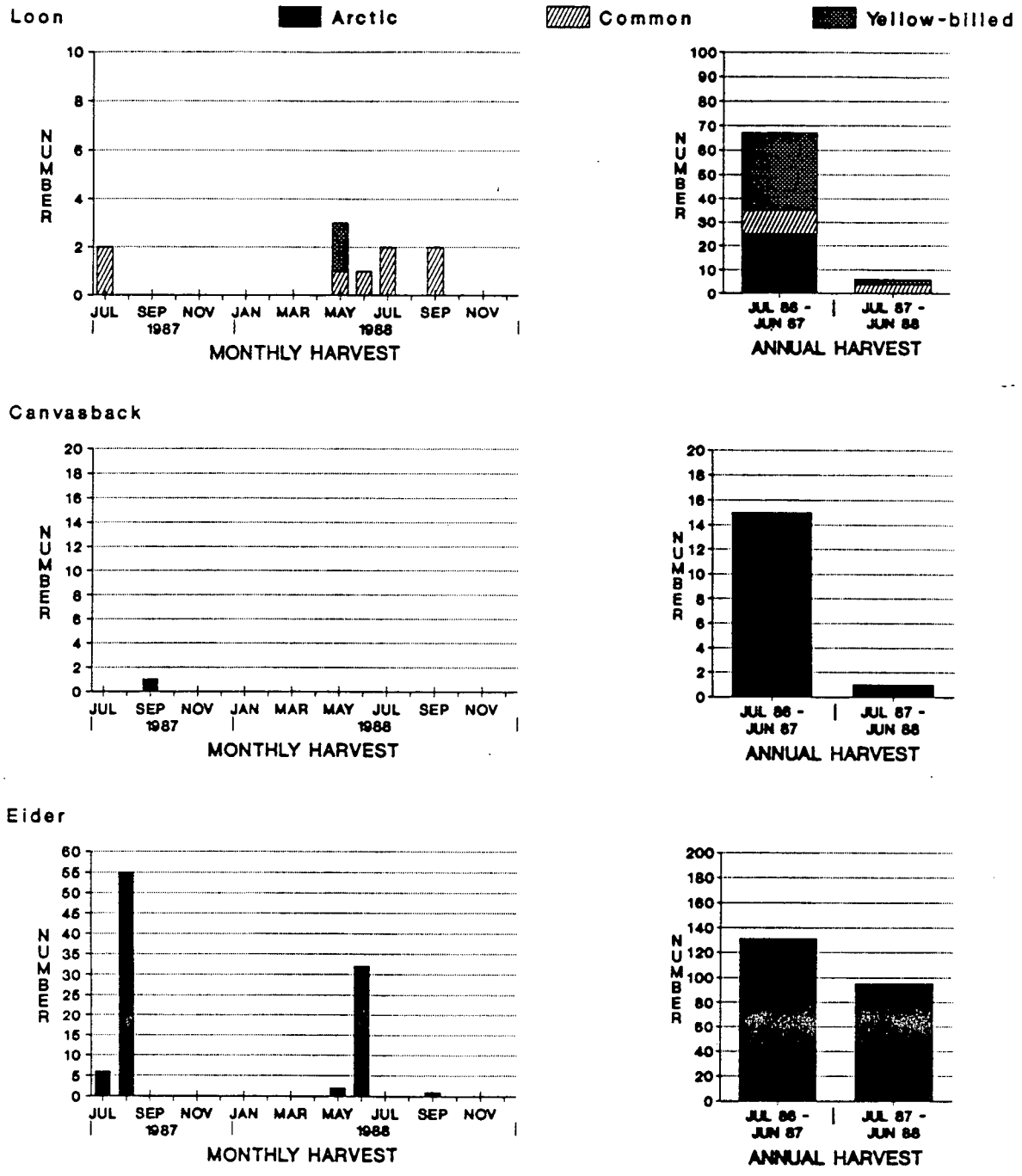
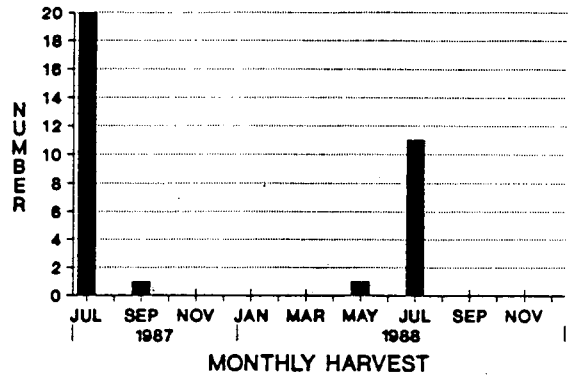
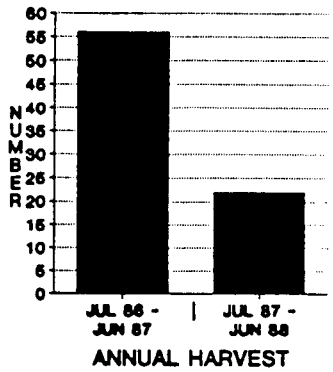


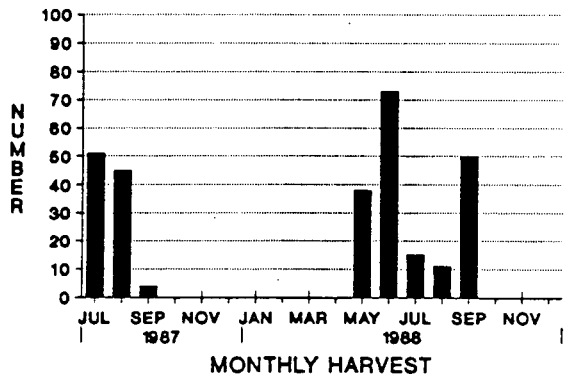
Figure 76: Monthly and annual harvests of Loon, Canvasback, and Eider, reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.

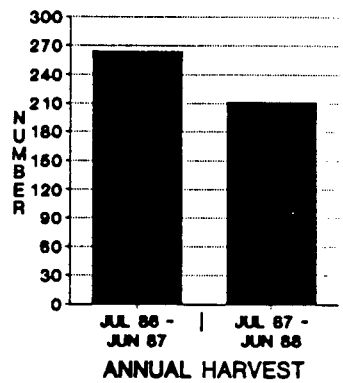
Merganser



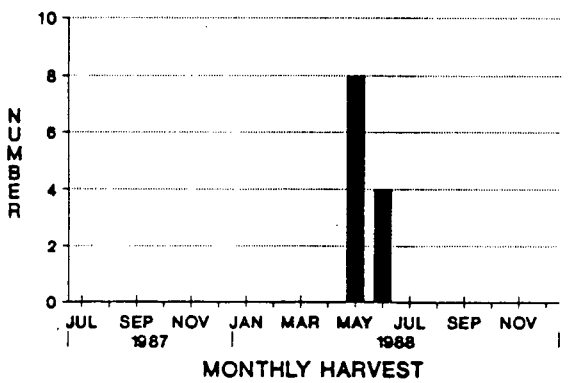


Oldsquaw





Northern Pintail



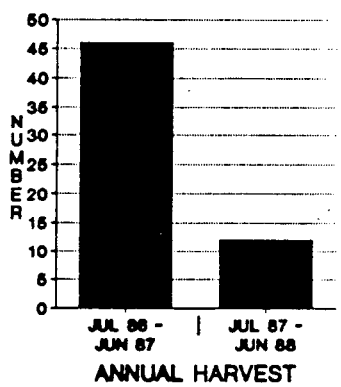
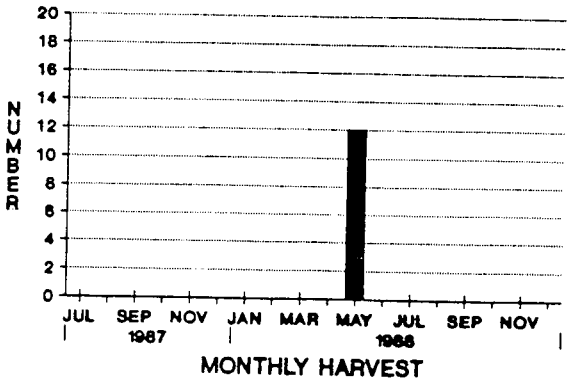
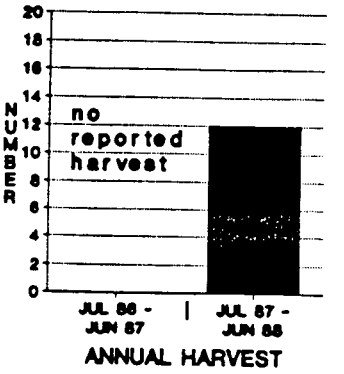


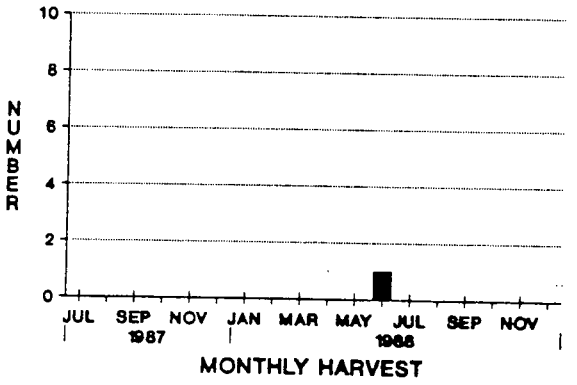
Figure 77: Monthly and annual harvests of Merganser, Oldsquaw, and Northern Pintail, reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.

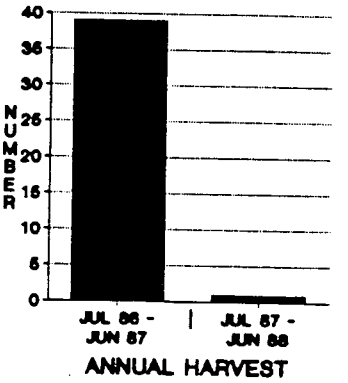
Scaup



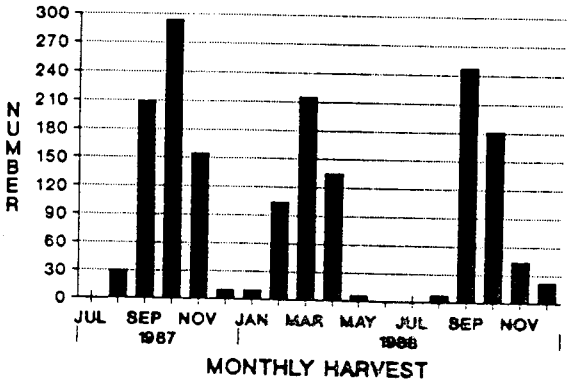


Scoter





Ptarmigan



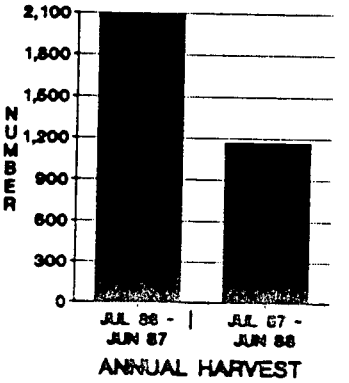


Figure 78: Monthly and annual harvests of Scaup, Scoter, and Ptarmigan, reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.

10.9 Holman

Holman hunters harvested twenty nine (29) species of wildlife (Table 6) including: fish (4 species), marine mammals (3), terrestrial mammals (8), and birds (14). Species harvest results are summarized in table 6. Monthly harvest results are presented graphically in figures 79 to 89 with actual harvested numbers presented in Appendices 34 to 37. The known hunter population, survey coverage, number of hunters that harvested during each survey period along with the number participating in the harvest of each species are presented in appendices 38 to 41.

Holman hunter interview coverage ranged between 95 to 99% over the course of the monthly surveys from July 1987 to December 1988 (Appendix 38). It should be noted that twenty five (25) hunters were not interviewed during July 1987 for information from July 1986 to June 1987 due to time constraints of this initial survey.

The majority of information collected for July to October 1987 was not identified as to which month the harvest took place. The harvest was evenly split between the months based on the number of days in the month. The seasonality of the harvest is more accurately represented during 1988 where harvest levels were identified on a monthly basis.

10.9.1 Fish

Arctic charr and lake trout were the two major subsistence fish species harvested by Holman hunters and trappers (Table 6).

Arctic charr were harvested during June to October. Harvest levels with the greatest number of hunters harvesting Arctic charr were during July, August, and October (Appendix 38). Fish caught during September 1988 were taken by one hunter.

In 1988 lake trout were harvested during January to October (Figure 79). The principal harvest season was from April to July, with peak harvesting during May and June. This was also the period when the greatest number of hunters harvested lake trout (Appendix 38).

10.9.2 Mammals

Marine mammal harvest included ringed seal, bearded seal, and polar bear (Table 6).

Ringed seal were harvested throughout the year (Figure 81). Peak harvesting was during June, July, and August. These are the months when the greatest number of hunters harvested Ringed Seal (Appendix 39). The annual harvest is similar when the July 1986 to June 1987 period is compared with 1988 data. Bearded Seal were occasionally harvested in low numbers. Monthly data from 1987 and 1988 indicate that the Bearded Seal harvest season was during April to October (Figure 81).

Twenty Polar Bear were harvested during January, February, April, and May in 1988 (Figure 82) with peak harvesting during April 1988. Harvest levels of males and females were similar with adults making up 90% of the harvest (Appendix 36).

Caribou were harvested throughout the year (Figure 82). In 1988 peak harvest months were January, July, October, and November. Monthly data collected from July to December 1987 indicates that November was the peak harvest month. June and September were the months where the lowest harvest took place. Comparison of the harvest during the periods July 1986 to June 1987, and July 1987 to June 1988 indicate that the caribou harvest level declined during the 1987-88 season (Table 2; Figure 82).

Over the course of the monthly surveys hunters provided sex information for 86% of the Caribou harvest (Appendix 36). Similarly, age class information was obtained for 92% of the Caribou harvest. For Caribou of known sex, from July 1987 to June 1988, 47% were female and 53% were male. For Caribou of known age class 69.7% were adults, 8.6% were juvenile, and 21.7% were young of the year. Similarly, for Caribou where both sex and age were reported 37% were adult females and 34% were adult males.

Muskox were harvested throughout the year except during June and December 1988 (Figure 82). Over much of the year, harvest levels ranged from 5 to 8 animals per month. In 1988, peak harvest months were February (11 Muskox harvested), March (16), and May (21). Fewer Muskox were harvested during November to December 1988 (1 Muskox harvested) than during this period in 1987 (15).

Over the course of the monthly surveys hunters provided sex information for 74% of the Muskox harvest (Appendix 36). Similarly, age class information was obtained for 78% of the Muskox harvest. For Muskox of known sex, from July 1987 to June 1988, 27% were female and 73% were male. For Muskox of known age class 77% were adults, 15% were juvenile, and 8% were young of the year. Similarly, for Muskox where both sex and age were reported 21% were adult females and 56% were adult males.

Muskoxen are likely under represented in the data as hunters were reluctant to report the harvest of young of the year.

Wolf, wolverine, and ermine are not common on Victoria Island and are harvested in low numbers on an opportunistic basis (Figure 83).

Fox, almost exclusively white Arctic fox, was the primary fur bearing species harvested by Holman hunters (Table 6). The harvest season was during November 1987 through April 1988, with harvest levels peaking in November and declining over the Winter (Figure 84). The number of fox harvested and the number of hunters that harvested fox declined dramatically for November and December 1988 (12 fox harvested), when compared to 1987 levels (1279; Figure 84; Appendix 36,40).

10.9.3 Birds

In general the waterfowl harvest season was during May through September (Figure 85 to 88). Of all the species harvested eiders were, by far, taken in the largest numbers (Figure 87). The 1988 monthly data indicates that eider harvesting took place during June, August and September. Peak harvesting was during June.

ANIMAL NAME	HARVESTING PERIOD AND NUMBER HARVESTED JULY 1986 TO JUNE 1987	JULY 1987 TO DECEMBER 1987	1988
FISH			
Arctic Charr - anadromous	8953	6746	9327
- landlocked	207	3	25
Broad Whitefish	300		
Arctic Cod	13		
Cod spp.	5		1
Lake Trout	4389	1769	1982
MAMMALS			
Ringed Seal	1115	370	1076
Bearded Seal	20	6	12
Caribou	712	369	655
Muskox	116	37	88
Polar Bear	*		20
Wolf	2	1	
Wolverine	1		
Arctic Fox - white	217	1275	650
- blue		4	
Red Fox - red	7		3
- cross	3	1	
- silver	1		
Total Fox Harvest	228	1280	653
Ermine		1	
Hare spp.	109	28	26
BIRDS			
Greater White-fronted Goose	3		
Canada Goose	188		83
Snow Goose	262		32
Brant	37	6	2
Goose spp.			2
Swan	4		
Arctic Loon	1	39	9
Common Loon	1	2	
Yellow-billed Loon	105		
Loon spp.		23	7
Eider	2816	206	4749
Oldsquaw	39		5
Northern Pintail	2		
Ptarmigan	202	21	20
Sandhill Crane	21		4
Snowy Owl		1	

Table 6: Reported fish and wildlife harvest by hunters from Holman, N.W.T., from July 1986 to December 1988.
* = no data were collected for July 1986 to June 1987

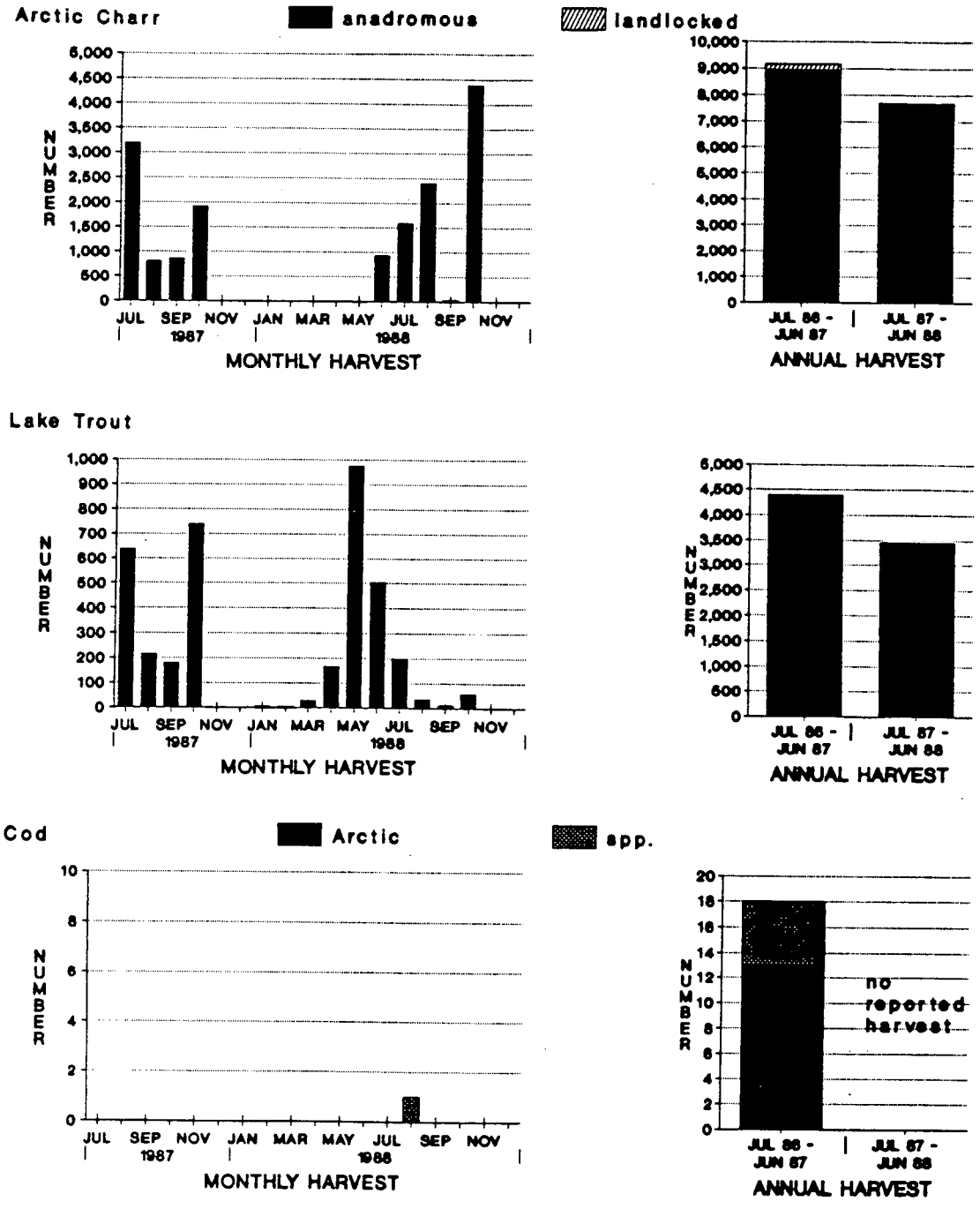
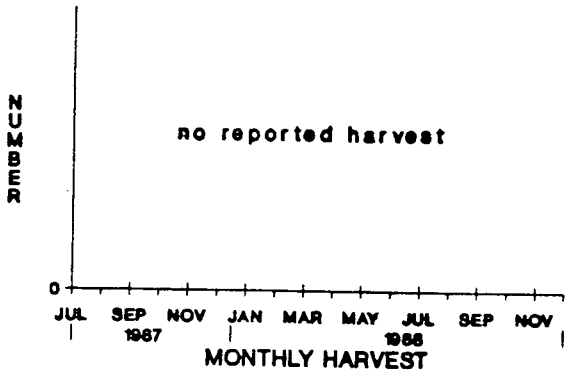


Figure 79: Monthly and annual harvests of Arctic Charr, Lake Trout and Cod, reported by Holman (N.W.T.) hunters, for the period July 1986 to December 1988.

Broad Whitefish



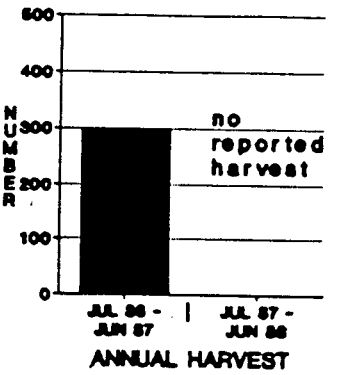
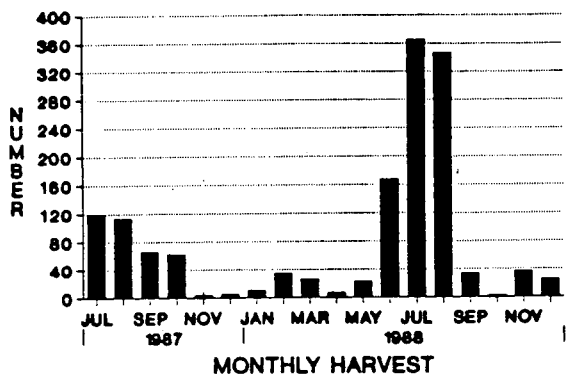
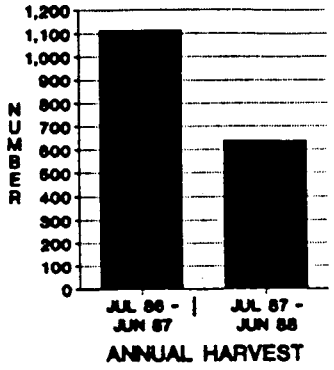


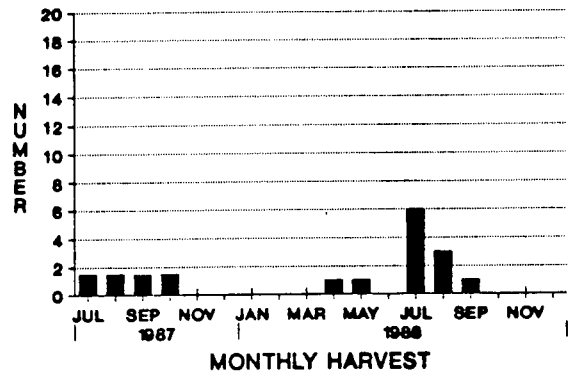
Figure 80:Monthly and annual harvests of Broad Whitefish, reported by Holman (N.W.T.) hunters, for the period July 1986 to December 1988.

Ringed Seal





Bearded Seal



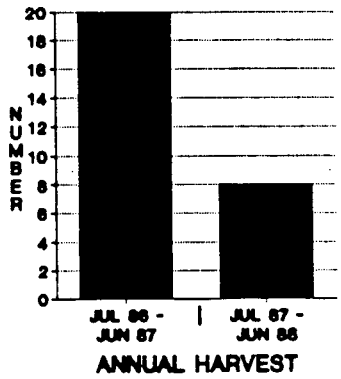


Figure 81: Monthly and annual harvests of Ringed Seal and Bearded Seal, reported by Holman (N.W.T.) hunters for the period July 1986 to December 1988.

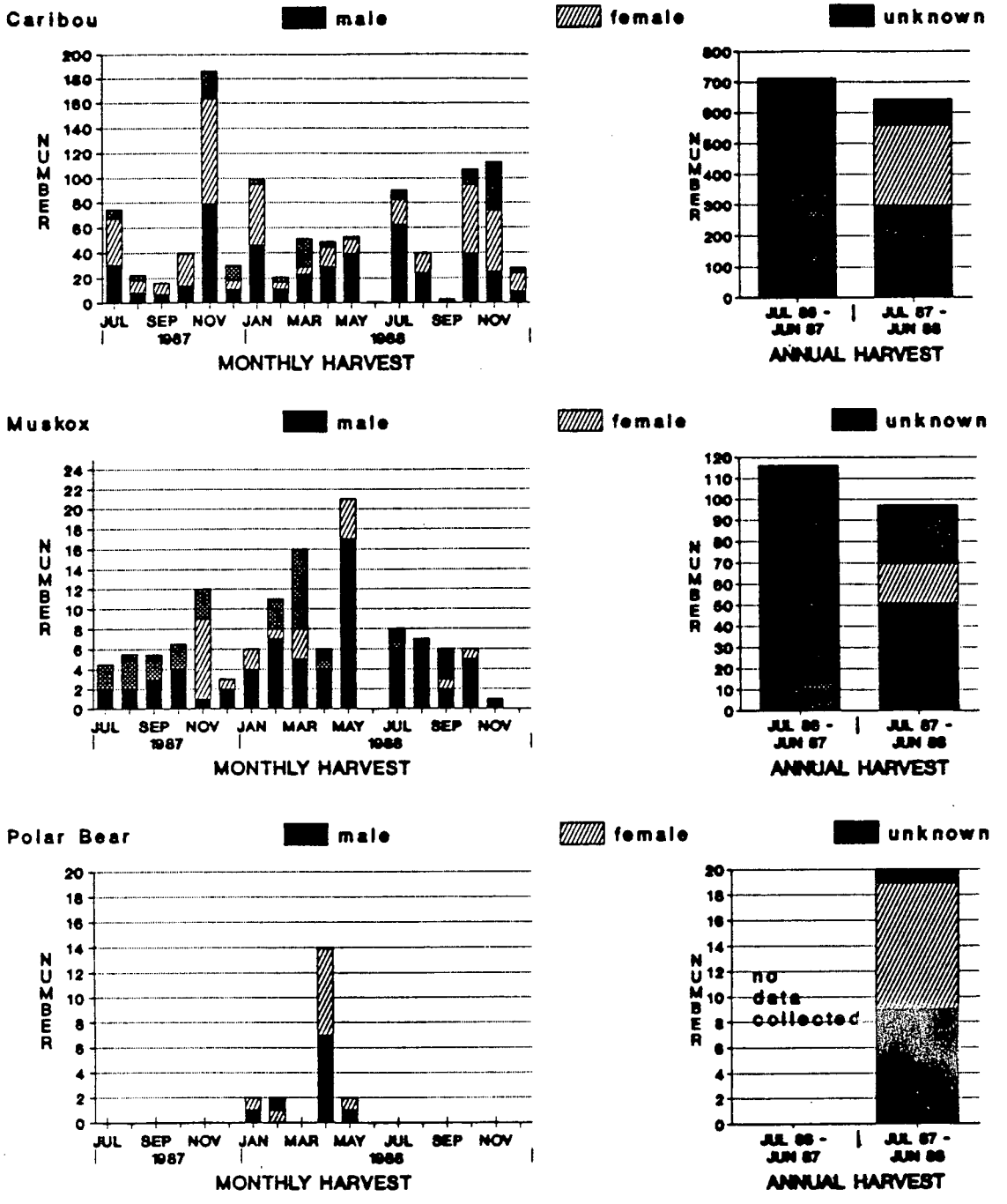
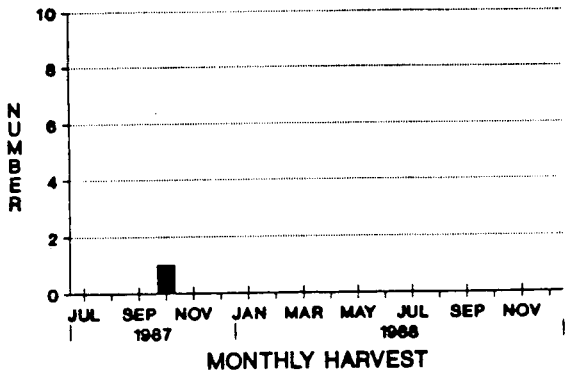
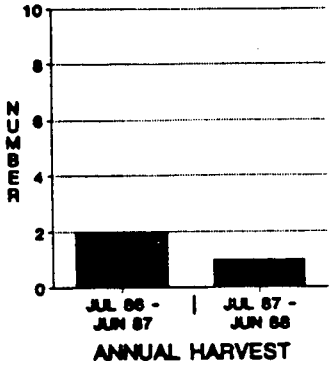


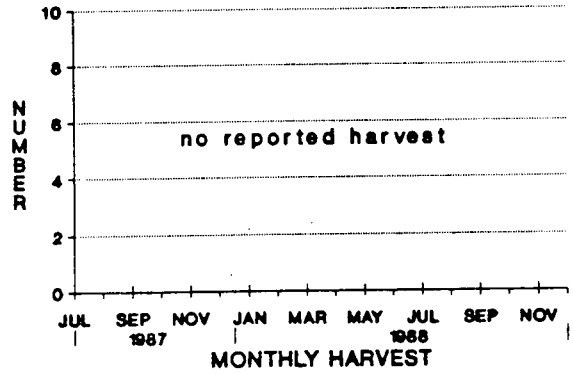
Figure 82:Monthly and annual harvests of Caribou, Muskox, and Polar Bear, reported by Holman (N.W.T.) hunters, for the period July 1986 to December 1988.

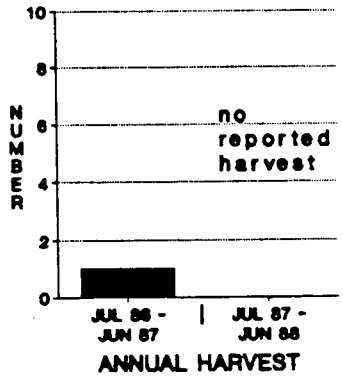
Wolf



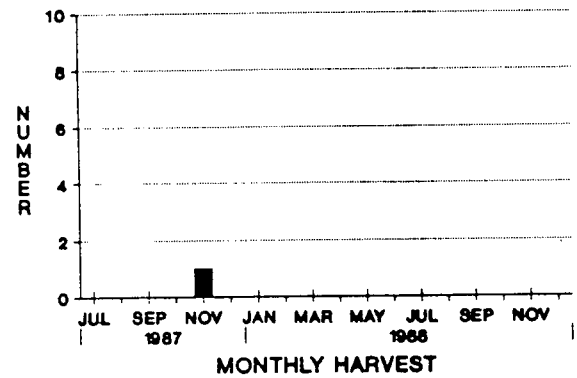


Wolverine





Ermine



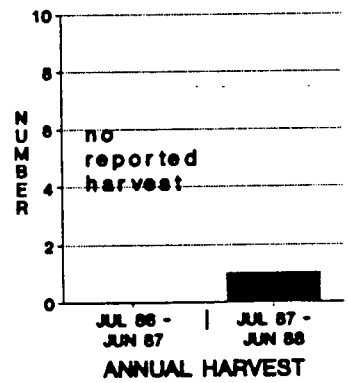


Figure 83:Monthly and annual harvests of Wolf, Wolverine, and Ermine, reported by Holman (N.W.T.) hunters, for the period July 1986 to December 1988.

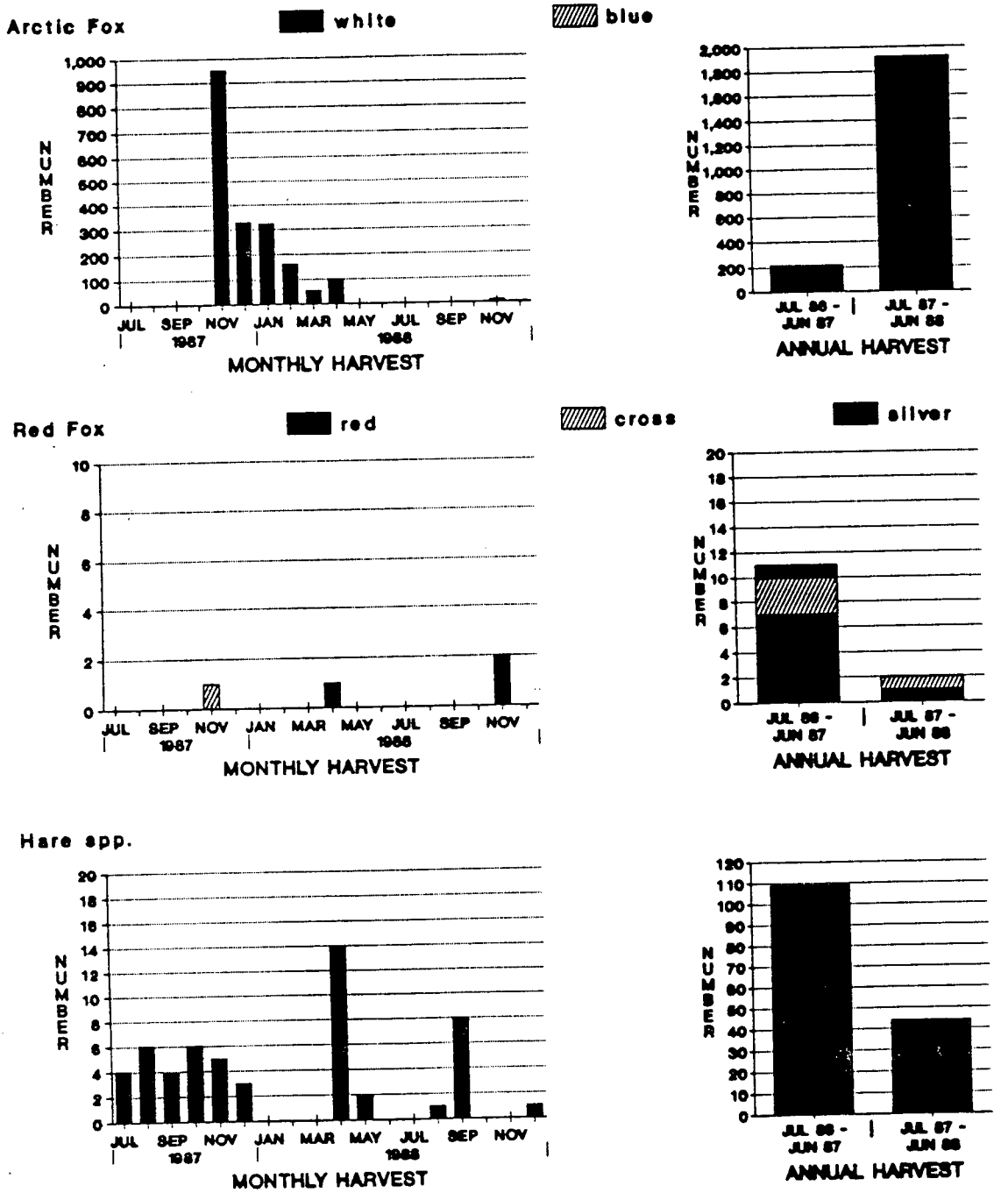
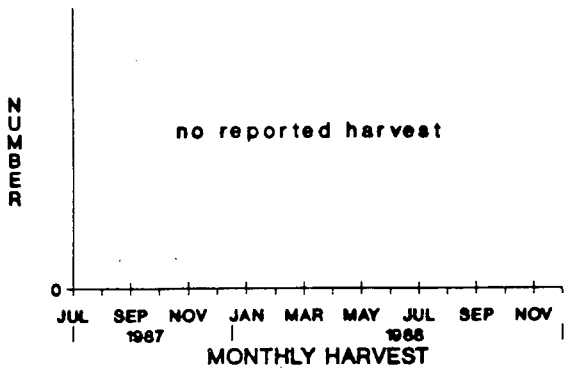
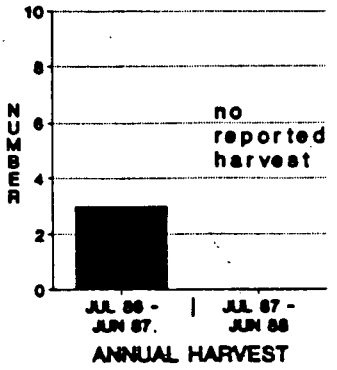


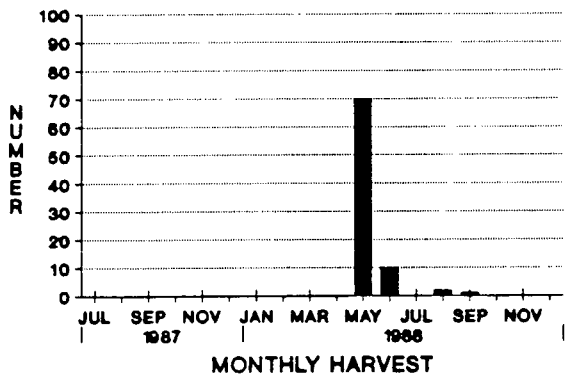
Figure 84:Monthly and annual harvests of Arctic Fox, Red Fox, and Hare spp., reported by Holman (N.W.T.) hunters, for the period July 1986 to December 1988.

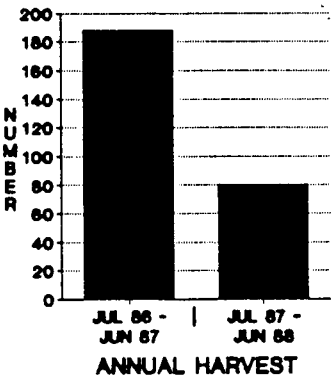
White-fronted Goose



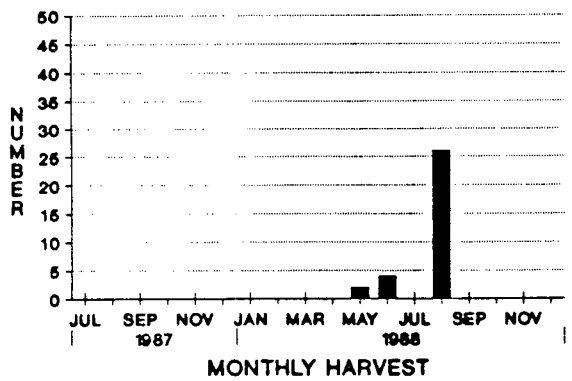


Canada Goose





Snow Goose



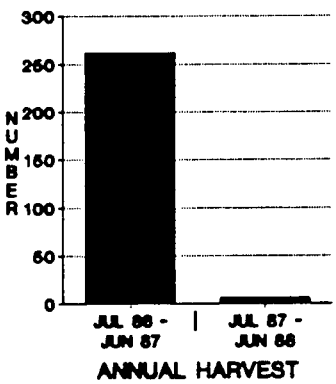
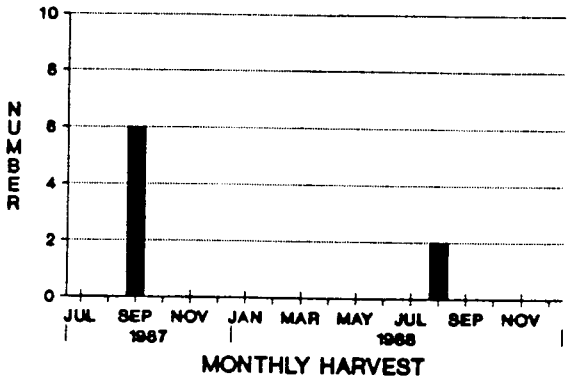
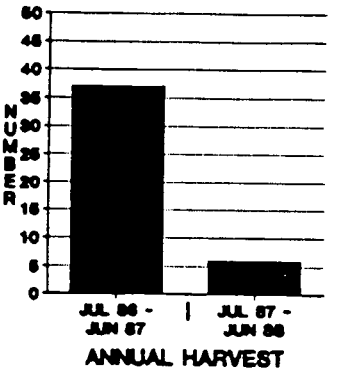


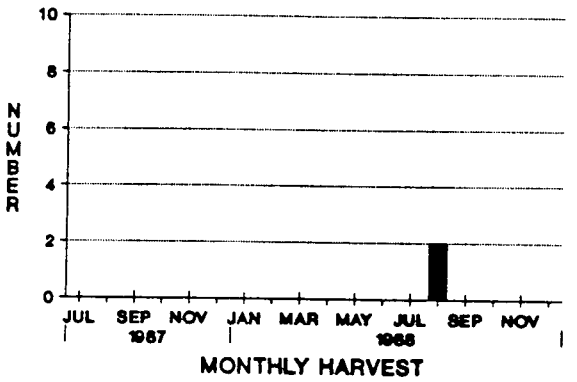
Figure 85: Monthly and annual harvests of White-fronted Goose, Canada Goose, and Snow Goose, reported by Holman (N.W.T.) hunters, for the period July 1986 to December 1988.

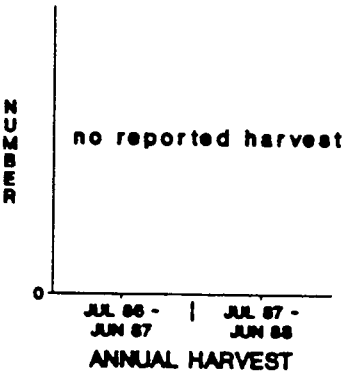
Brant



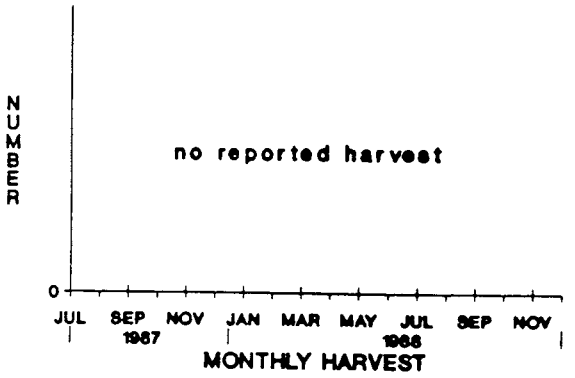


Goose spp.





Swan



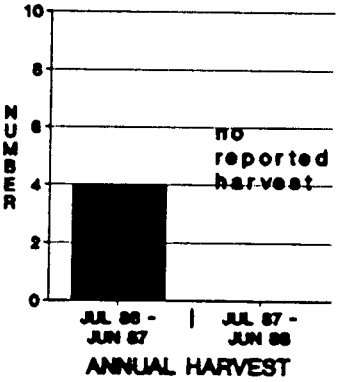


Figure 86:Monthly and annual harvests of Brant, Goose spp., and Swan, reported by Holman (N.W.T.) hunters, for the period July 1986 to December 1988.

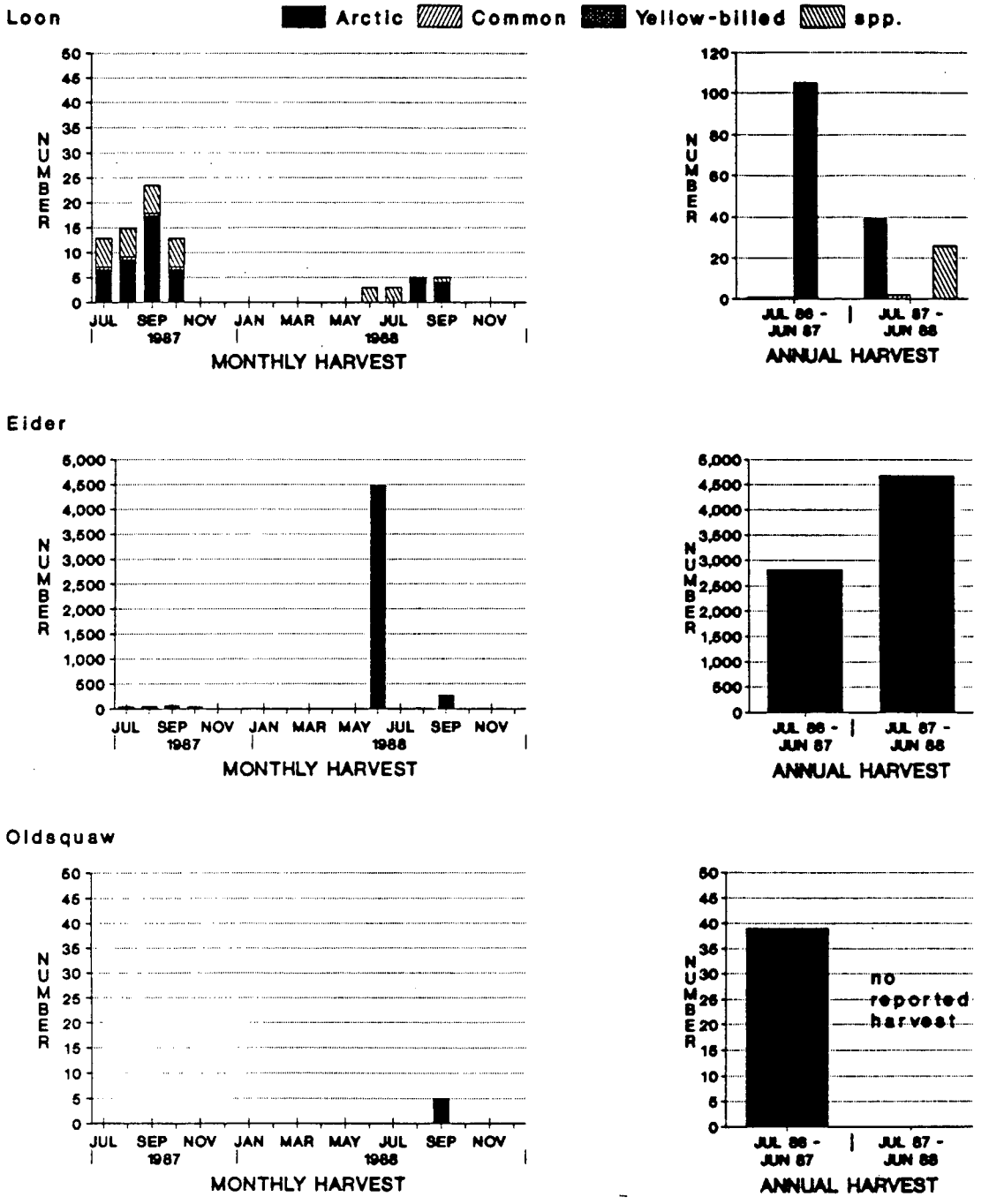
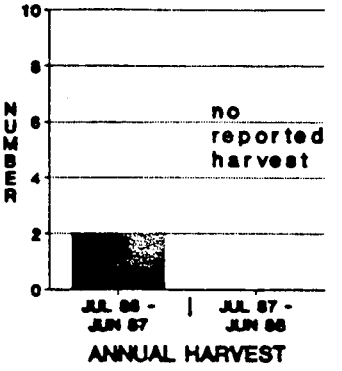
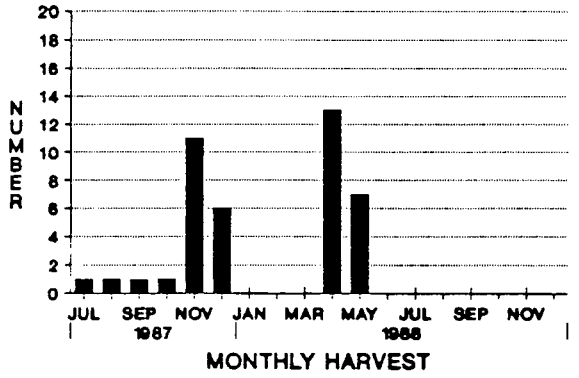


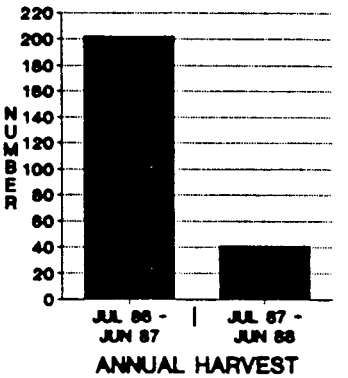
Figure 87: Monthly and annual harvests of Loon, Eider, and Oldsquaw, reported by Holman (N.W.T.) hunters, for the period July 1986 to December 1988.

Northern Pintail

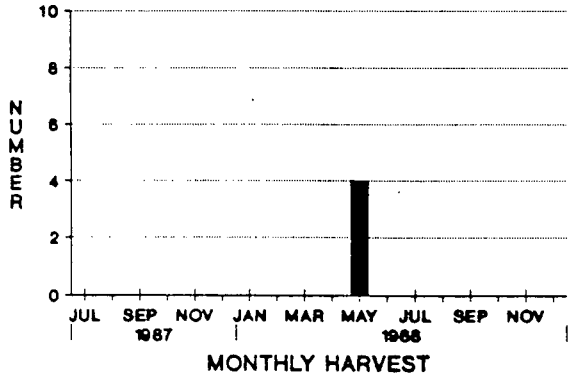


Ptarmigan





Sandhill Crane



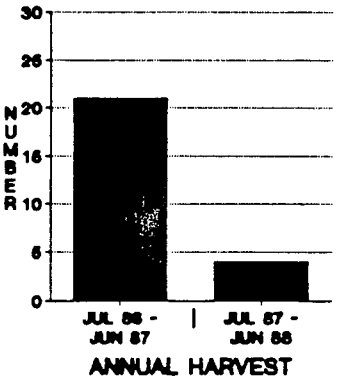


Figure 88: Monthly and annual harvests of Northern Pintail, Ptarmigan, and Sandhill Crane, reported by Holman (N.W.T.) hunters, for the period July 1986 to December 1988.

Snowy Owl

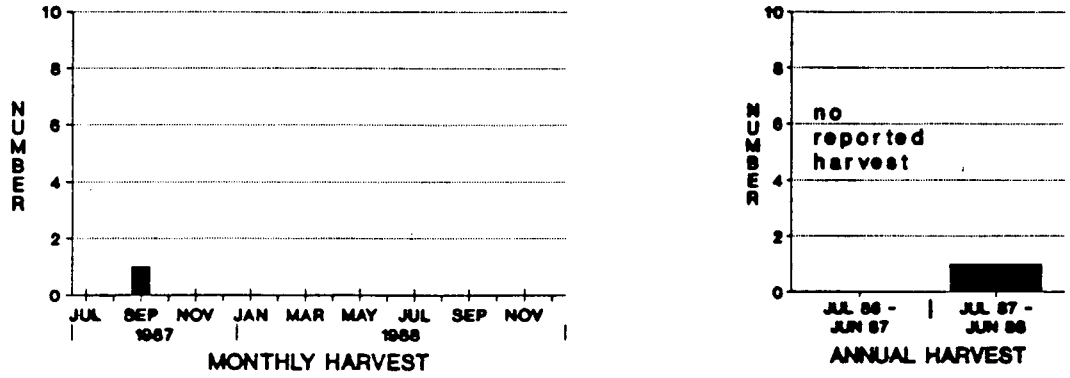


Figure 89: Monthly and annual harvests of Snowy Owl, reported by Holman (N.W.T.) hunters, for the period July 1986 to December 1988.

10.10 Sachs Harbour

Sachs Harbour hunters harvested thirty four (34) species of wildlife (Table 7) including: fish (6 species), marine mammals (4), terrestrial mammals (6), and birds (18). Species harvest results are summarized in Table 7. Monthly harvests are presented graphically in Figures 90 to 102 with the associated numbers presented in Appendices 42 to 45. The known hunter population, survey coverage, number of hunters that harvested during each survey period along with the number participating in the harvest of each species are presented in Appendices 46 to 49.

On average 91.8% of the known hunter population was interviewed, over the course of the monthly surveys from July 1987 to December 1988 (Appendix 46).

10.10.1 Fish

Arctic charr and lake trout were the principal fish species harvested (Table 7). These harvests also involved the greatest number of hunters with only a few occasionally harvesting other fish species (Appendix 46).

Arctic charr were harvested throughout the year except during November 1987 to February 1988 and August, November and December 1988 (Figure 90). The principal harvest season was during April to July, with peak harvesting in May. More hunters harvested Arctic charr during April and May than at other times of the year (Appendix 46).

Lake trout were harvested during the Summer and late Fall but principally during March to June with peak numbers during May (Figure 90). More hunters harvested lake trout during April and May than at other times of the year (Appendix 46).

Broad whitefish, burbot, and northern pike were taken by one or two hunters who harvested these species on the mainland around Tuktoyaktuk, Aklavik, and Inuvik (respectively; Figure 91, Appendix 46). During July 1987 to December 1988 only one hunter reported harvesting saffron cod during July 1988 (Figure 90; Appendix 46).

10.10.2 Mammals

Marine mammals harvested by Sachs Harbour hunters included ringed seals, bearded seals, walrus, and polar bear (Table 7).

Ringed seals were harvested during all months except December 1987 and February, March, September, and December 1988 (Figure 92). Principal harvesting involving the most hunters was during July to September 1987, and June to August 1988 (Appendix 47). Annual harvest during July 1987 to June 1988 was less than half the level that was reported during July 1986 to June 1987. Seals that were not identified as either ringed or bearded were probably ringed seals as they are the commonest seal species in the area.

Bearded seal were harvested in low numbers by one or two hunters during August 1987 and January, February and June through August 1988 (Figure 92; Appendix 47).

Walrus were harvest during July 1986 to June 1987 (3 harvested), October 1987 (1), and July 1988 (2) (Figure 93). Walrus are only occasionally present in waters near Sachs Harbour and are hunted on an opportunistic basis. They are as such harvested in low numbers.

Of the ten Polar Bears reported harvested during October 1987 to May 1988 eight were males and six of these were adults (Figure 94; Appendix 44). Juvenile Polar Bears harvested during October and November 1987 were nuisance bears harvested in or around the community. During 1988 all but two bears were taken during guided sports hunts. One adult male during April and the bear in May were subsistence harvests.

Caribou were harvested throughout the year except during July 1987, and May and June 1988 (Figure 94). They were harvested principally during October and November in both 1987 and 1988. During these times more hunters harvested caribou than during other times of the year (Appendix 48). Annual comparisons between July 1986 to June 1987 and July 1987 to June 1988 indicate that the reported harvests were similar. However, harvest levels from July to December 1988 were substantially lower than during July to December 1987. The field worker commented that hunters saw fewer Caribou during 1988, than in past years.

Over the course of the monthly surveys hunters provided sex information for 99% of the reported caribou harvest (Appendix 44). Similarly, age class information was obtained for 96% of the caribou harvest. For caribou of known sex, from July 1987 to June 1988, 72% were female and 28% were male. For caribou of known age class 78% were adults, 3% were

juvenile, and 19% were young of the year. Similarly, for caribou where both sex and age were reported 60% were adult females and 18% were adult males.

During 1987 three adult male caribou were reported as harvested during guided sports hunts (Figure 94). Two of these were taken in October and one in November. In 1988 one adult male was reported as harvested during a guided sports hunt in October. It is not known how many animals were similarly harvested from July 1986 to June 1987 or if the data include these animals. Hunters were not asked to provide this information during these interviews.

Muskox were harvested throughout the year. The principal subsistence season was during October to November and February to May (Figure 94). More hunters harvested Muskox during these months than at other times of the year (Appendix 48). Annual harvest levels and the number of hunters harvesting muskox remained fairly constant over the course of the study (Table 7; Appendix 44,48).

The twenty nine muskox of unknown sex and maturity harvested during September 1988 were taken by the Sachs Harbour HTC as part of a commercial slaughter (Figure 94).

Over the course of the monthly surveys hunters provided sex information for 91% of the muskox harvest (Appendix 44). Similarly, age class information was obtained for 91% of the muskox harvest. For muskox of known sex, from July 1987 to June 1988, 37% were female and 63% were male. For muskox of known age class 92.8% were adults, 5.5% were juvenile, and 1.7% were young of the year. Similarly, for muskox where both sex and age were reported 34% were adult females and 58% were adult males.

Discussions with individual hunters and the field worker suggest that hunters are reluctant to report the harvest of young of the year muskox. It is not known what portion of the harvest was not reported, as such, these harvest levels should be considered as minimum values.

Guided sports hunts accounted for sixteen adult male muskox from July 1987 to December 1988: October 1987 (3 muskox), November 1987 (1), March 1988 (3), April 1988 (7), October 1988 (1), November 1988 (1) (Figure 94). It is not known how many animals were similarly harvested from July 1986 to June 1987 or if the data include these muskox. Hunters were not asked to provide this information.

Arctic fox, principally white fox was the major furbearing species harvested (Table 7). These were harvested during November to December and March to April (Figure 94). Comparison of the harvest during the periods November to December 1987 and 1988 indicate that harvest levels declined during 1988. The largest number of white fox was harvested during November 1987 by ten hunters (Appendix 44). During 1988 only one hunter during any given month harvested white fox.

Wolves were harvested during July 1986 to June 1987 (1 harvested) and October 1987 (4) (Figure 95). Wolves are only occasionally seen on Banks Island and are harvested on an opportunistic basis in low numbers and not in all years.

Arctic hare are harvested throughout the Winter and early Spring (Figure 96). The largest harvests were during October to November 1987 and April 1988. These harvests also involved more hunters than during other times of the year (Appendix 48).

10.10.3 Birds

Of all the bird species harvested, snow geese were harvested in the greatest numbers (Table 7). These were harvested during May and June, principally in May (Figure 97).

Eiders do not represent a major component of the bird harvest by Sachs Harbour hunters (Figure 99). The numbers presented here reflect Eiders harvested by Sachs Harbour hunters on Banks Island. It is known that some hunters travel to Holman to participate in the Spring harvest of eiders. As none of this harvest was reported eider harvest levels for Sachs Harbour hunters should be viewed as minimum values.

Some of the ducks harvested by Sachs Harbour hunters were taken from other areas: four of the five white-fronted geese harvested during July 1986 to June 1987 were taken from around Tuktoyaktuk; 15 of 22 northern pintail harvested during July 1986 to June 1987 were taken near Aklavik; all seven scoters were harvested near Aklavik and Inuvik (Figure 97,100,101).

Hunters were reluctant to report their harvest of swans and sandhill cranes and as such harvest levels are likely under represented and should be considered as minimum values (Figure 98,101).

Ptarmigan were principally harvested from September to November with a small part of the harvest during February, April, and May (Figure 101).

ANIMAL NAME	HARVESTING PERIOD AND NUMBER HARVESTED JULY 1986 TO JUNE 1987	JULY 1987 TO DECEMBER 1987	1988
FISH			
Arctic Charr - anadromous	621	20	519
- landlocked	61	20	
Broad Whitefish	150		
Saffron Cod	141		8
Lake Trout	750	55	178
Burbot	20		
Northern Pike	11		
MAMMALS			
Ringed Seal	475	152	151
Bearded Seal	41	2	14
Seal spp.			5
Walrus	3	1	2
Caribou	385	389	224
Muskox	239	113	243
Polar Bear	*	3	7
Wolf	1	4	
Arctic Fox - white	352	228	155
- blue	7	3	
Red Fox - cross	1		
Total Fox Harvest	360	231	155
Hare spp.	287	73	66
BIRDS			
Greater White-fronted Goose	5		1
Canada Goose	1		1
Snow Goose	1927		1395
Snow Goose (blue)	1		
Brant	169		76
Swan	11		
Arctic Loon	1		
Common Loon	1		
Yellow-billed Loon	12		
Eider	133	10	24
Green-winged Teal			2
Mallard	2		
Oldsquaw	56		
Northern Pintail	22		1
Scaup			1
Scoter	7		
Ptarmigan	506	303	111
Sandhill Crane	17		8
Snowy Owl	1	2	

Table 7: Reported fish and wildlife harvest by hunters from Sachs Harbour, N.W.T., from July 1986 to December 1988.
* = no data were collected for July 1986 to June 1987

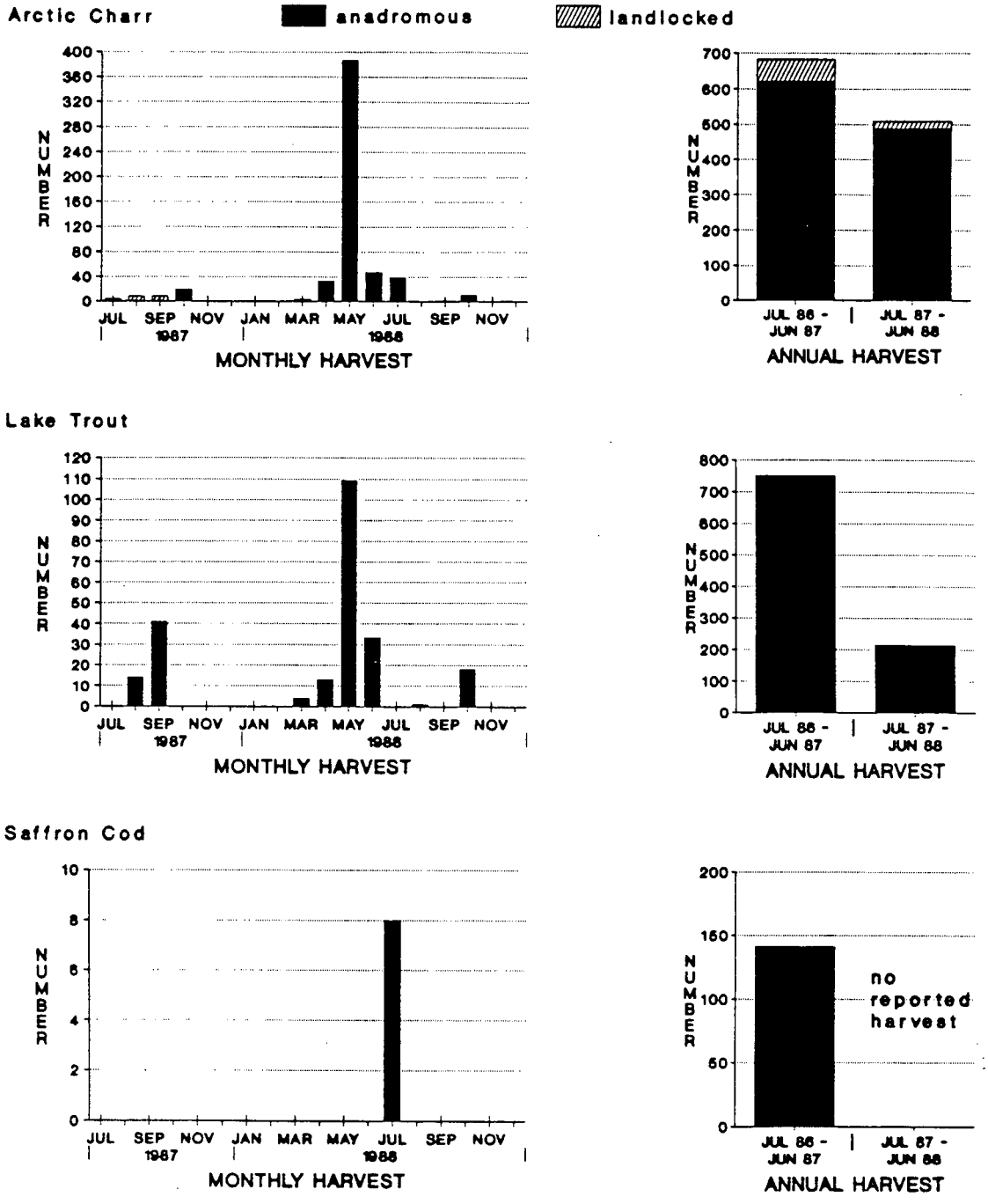
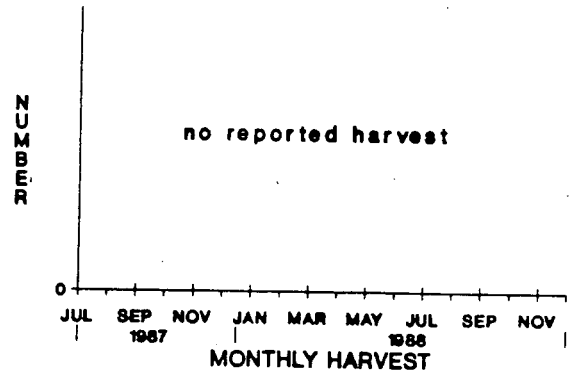
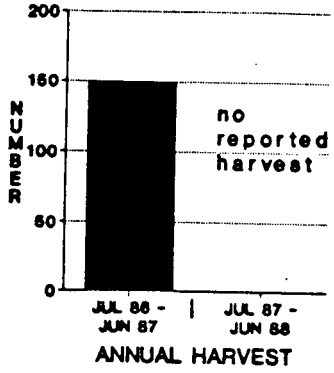


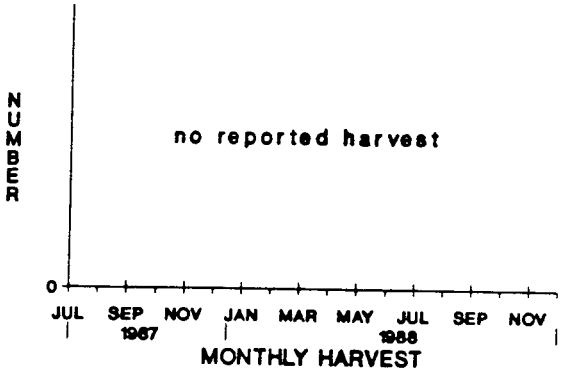
Figure 90: Monthly and annual harvests of Arctic Charr, Lake Trout, and Saffron Cod, reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.

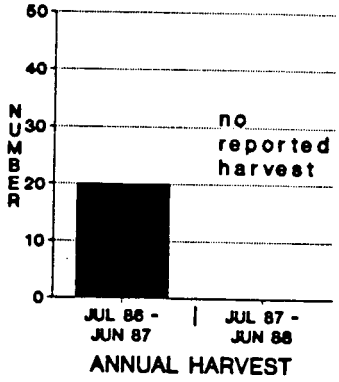
Broad Whitefish



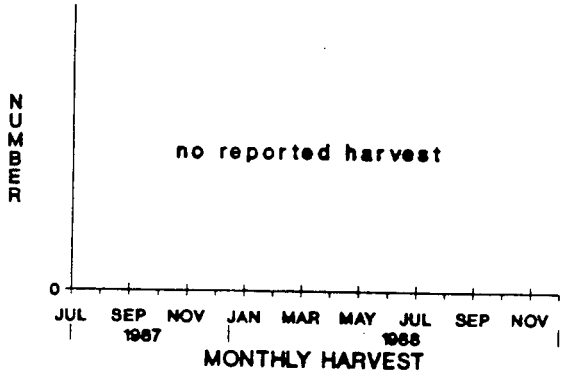


Burbot





Northern Pike



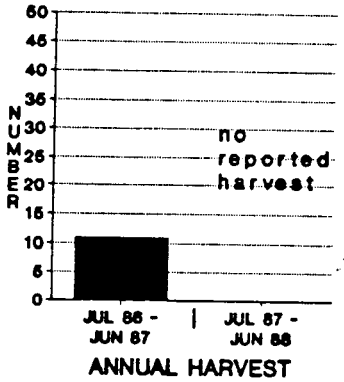


Figure 91: Monthly and annual harvests of Broad Whitefish, Burbot, and Northern Pike, reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.

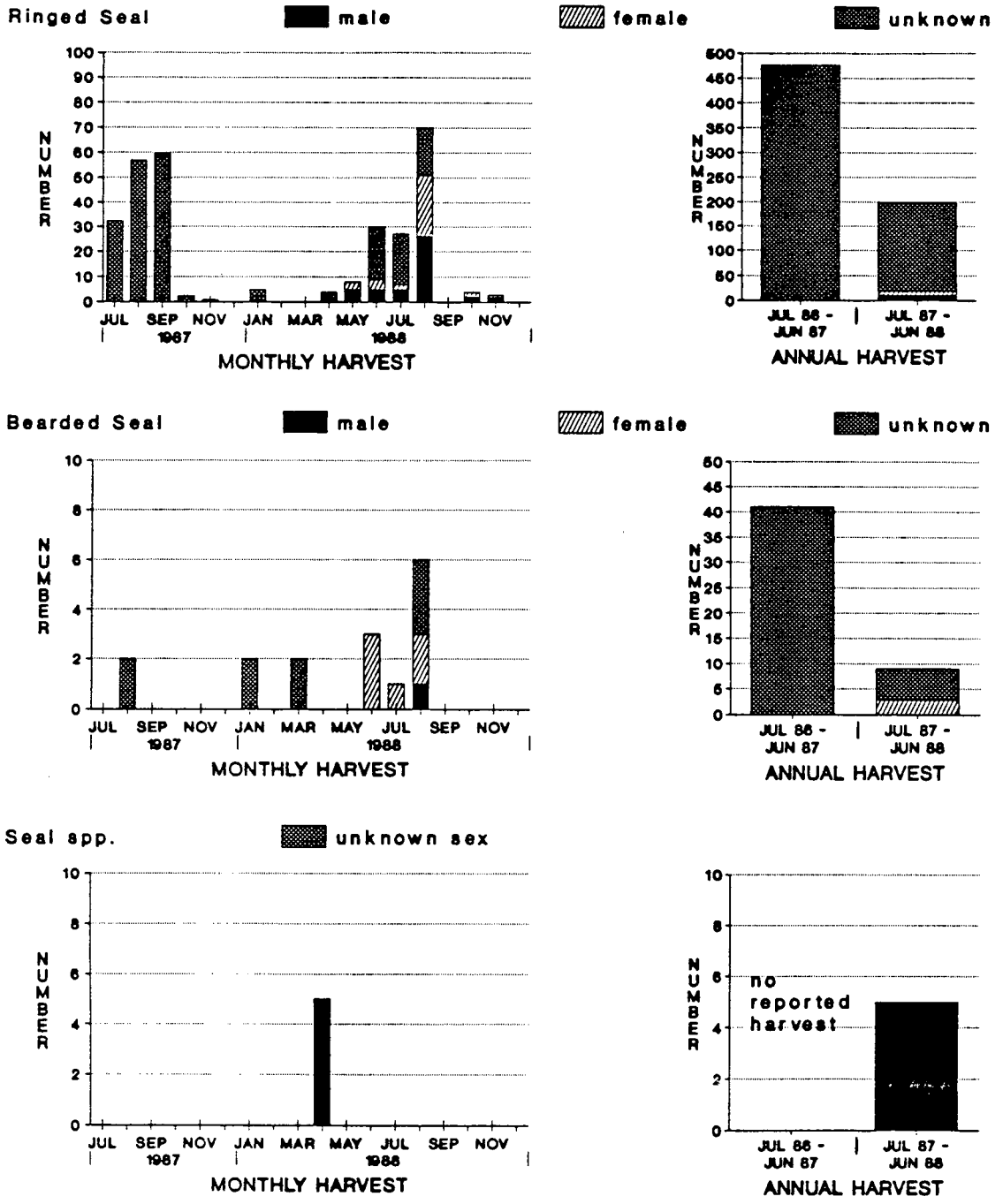


Figure 92: Monthly and annual harvests of Ringed Seal, Bearded Seal, and Seal spp., reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.

Walrus

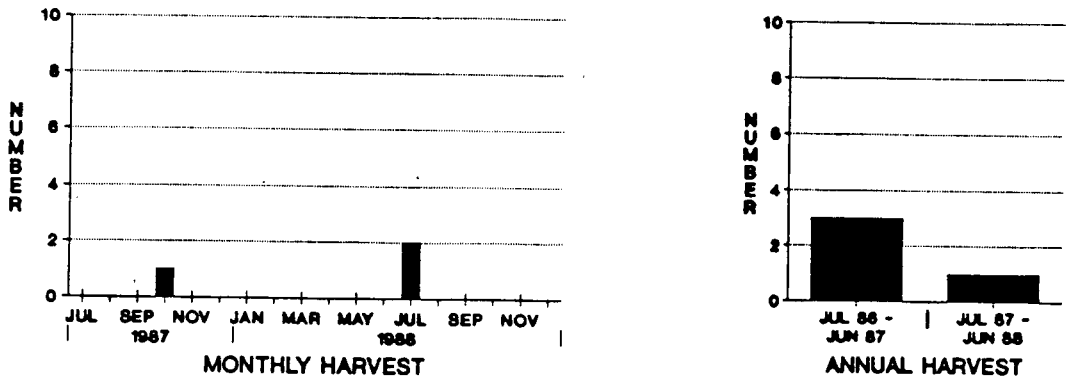


Figure 93:Monthly and annual harvests of Walrus, reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.

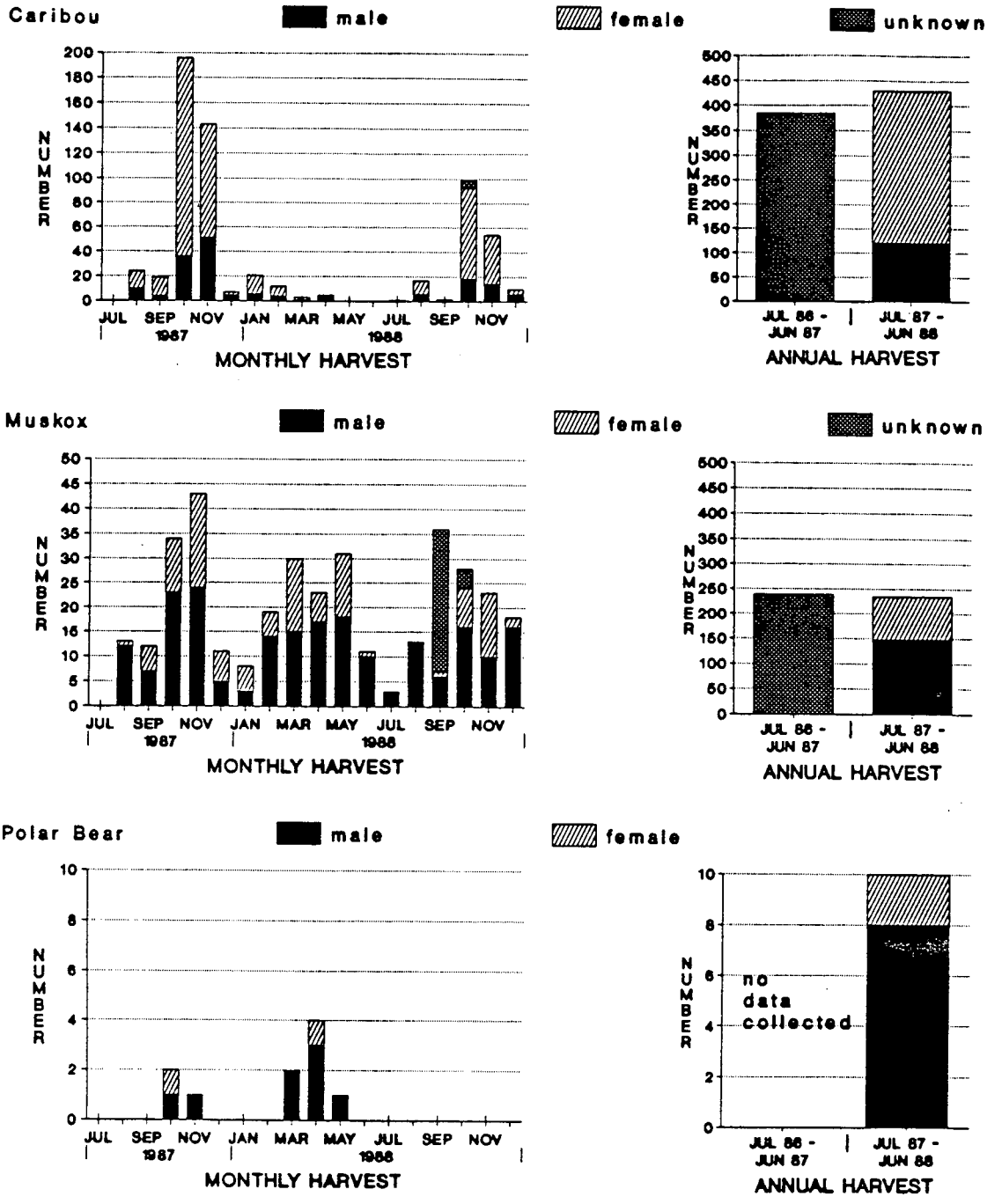


Figure 94: Monthly and annual harvests of Caribou, Muskox, and Polar Bear, reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.

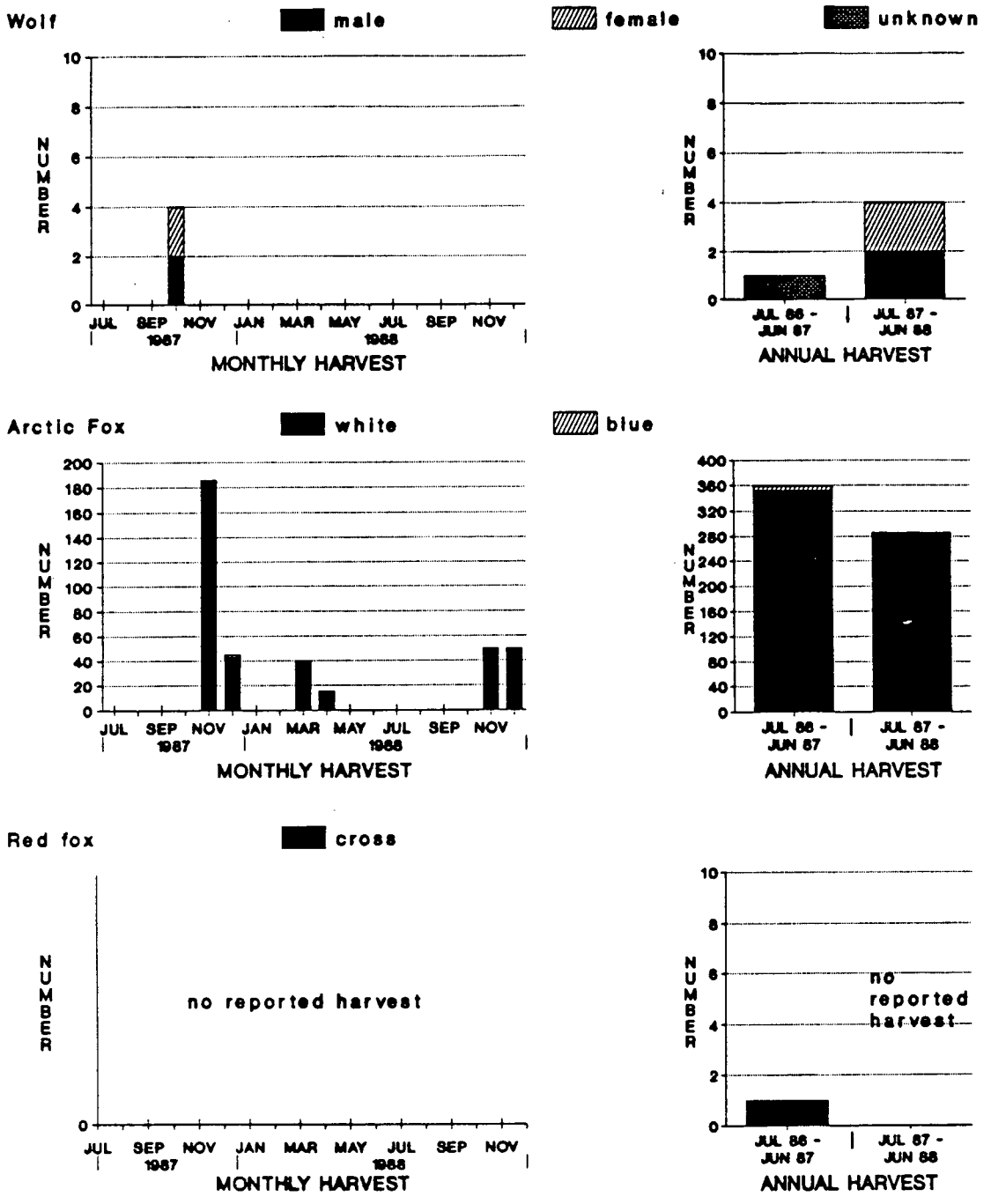


Figure 95:Monthly and annual harvests of Wolf, Arctic Fox, and Red Fox, reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.

Hare spp.

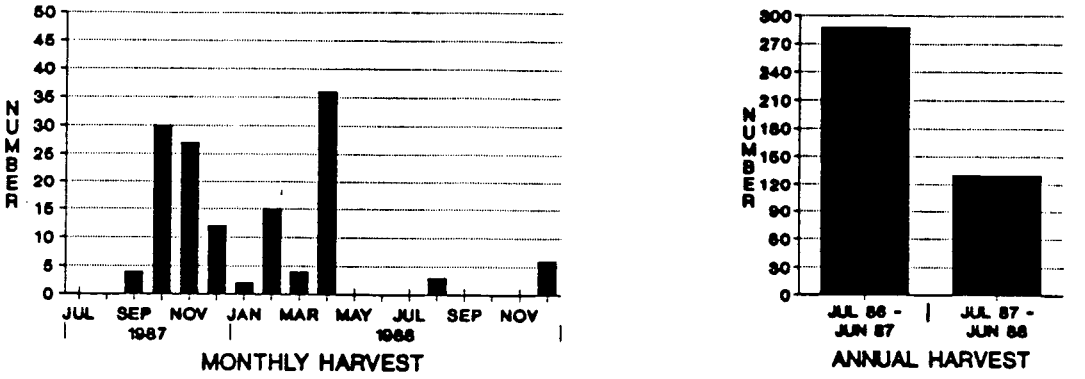
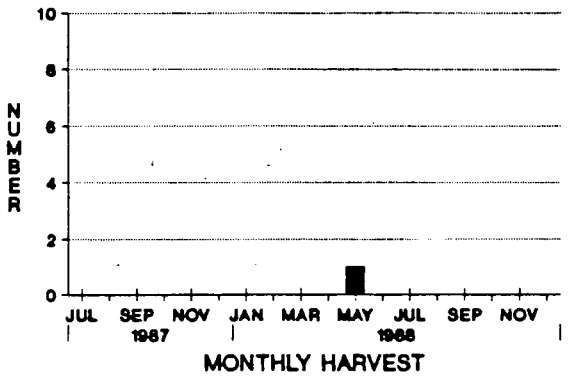
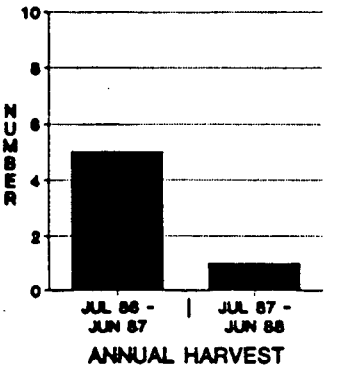


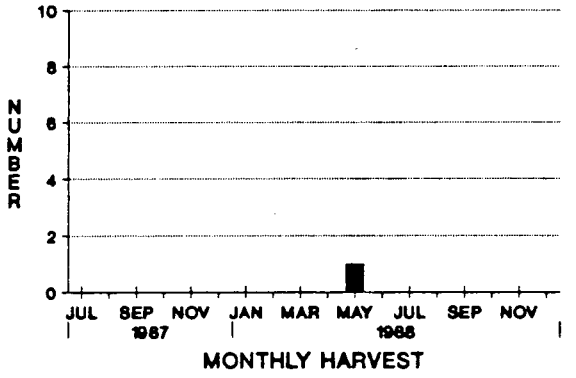
Figure 96:Monthly and annual harvests of Hare spp., reported by Sachs Harbour hunters, for the period July 1986 to December 1988.

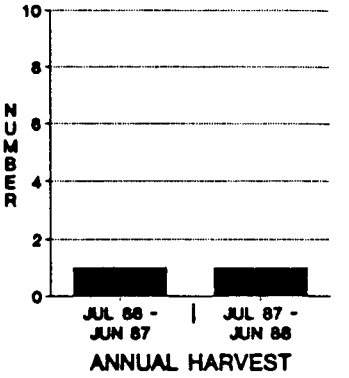
White-fronted Goose



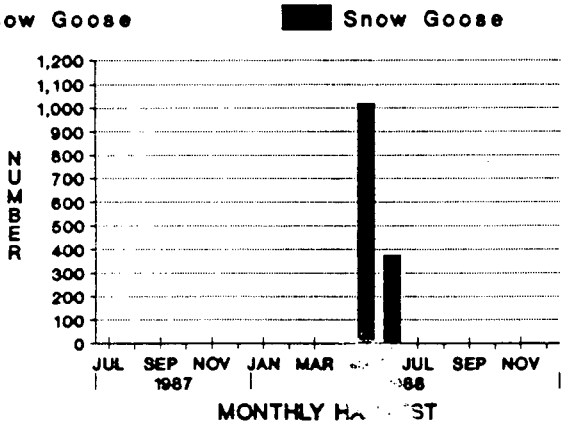


Canada Goose





Snow Goose



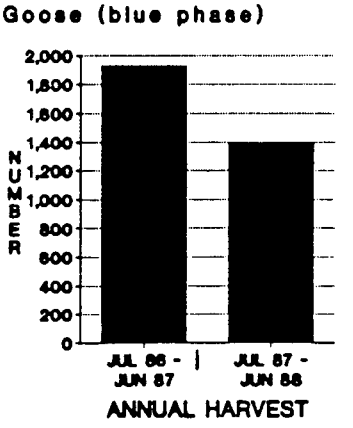


Figure 97: Monthly and annual harvests of White-fronted Goose, Canada Goose, and Snow Goose, reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.

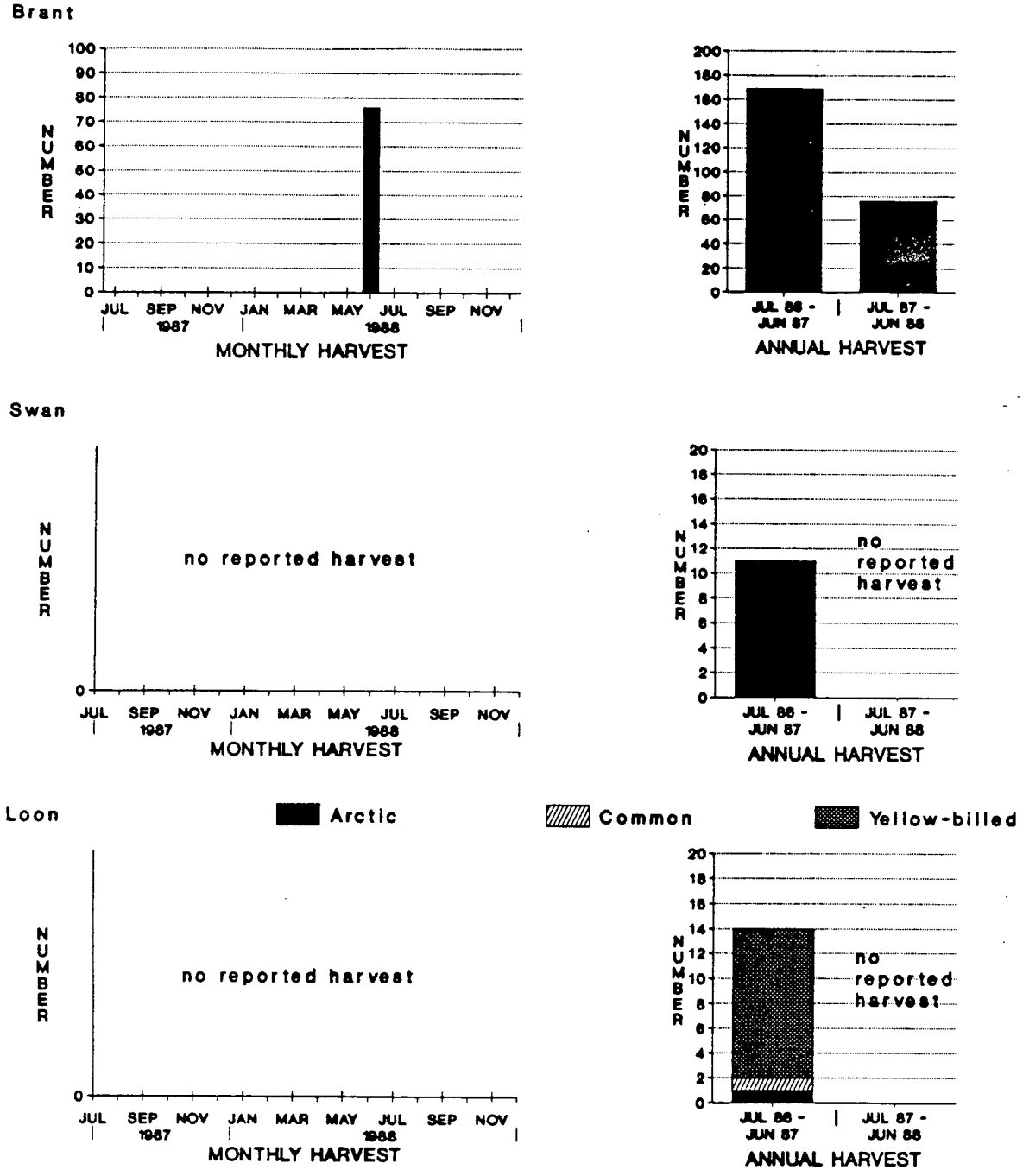
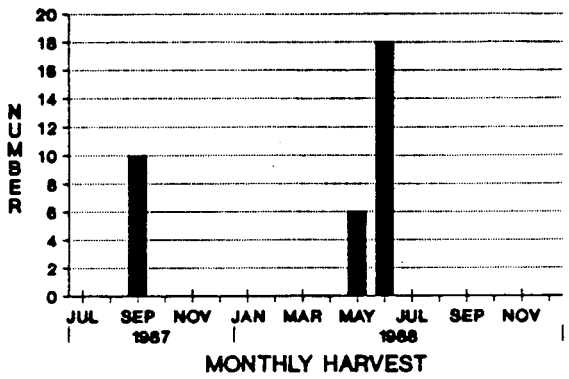
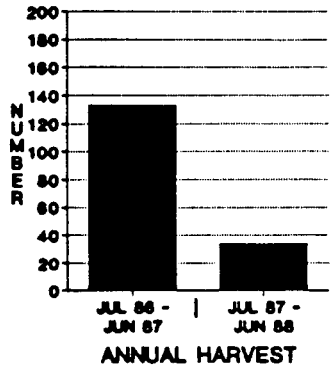


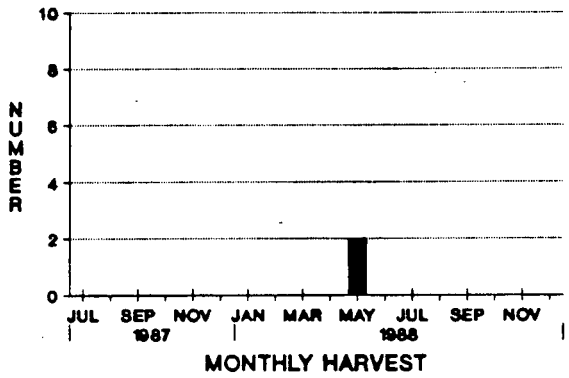
Figure 98:Monthly and annual harvests of Brant, Swan, and Loon, reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.

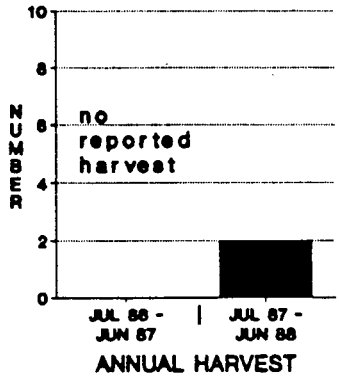
Eider



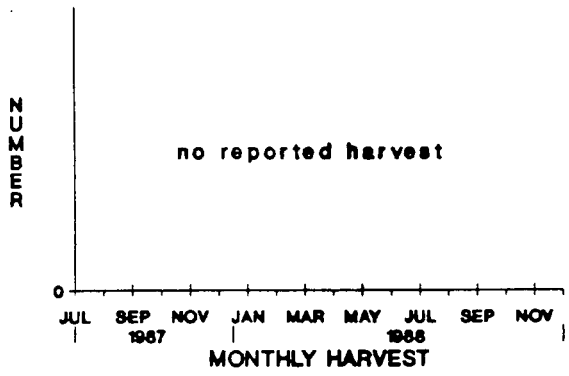


Green-winged Teal





Mallard



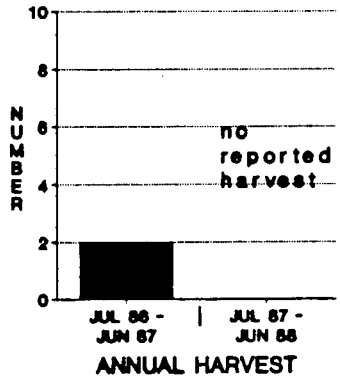


Figure 99: Monthly and annual harvests of Eider, Green-winged Teal, and Mallard, reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.

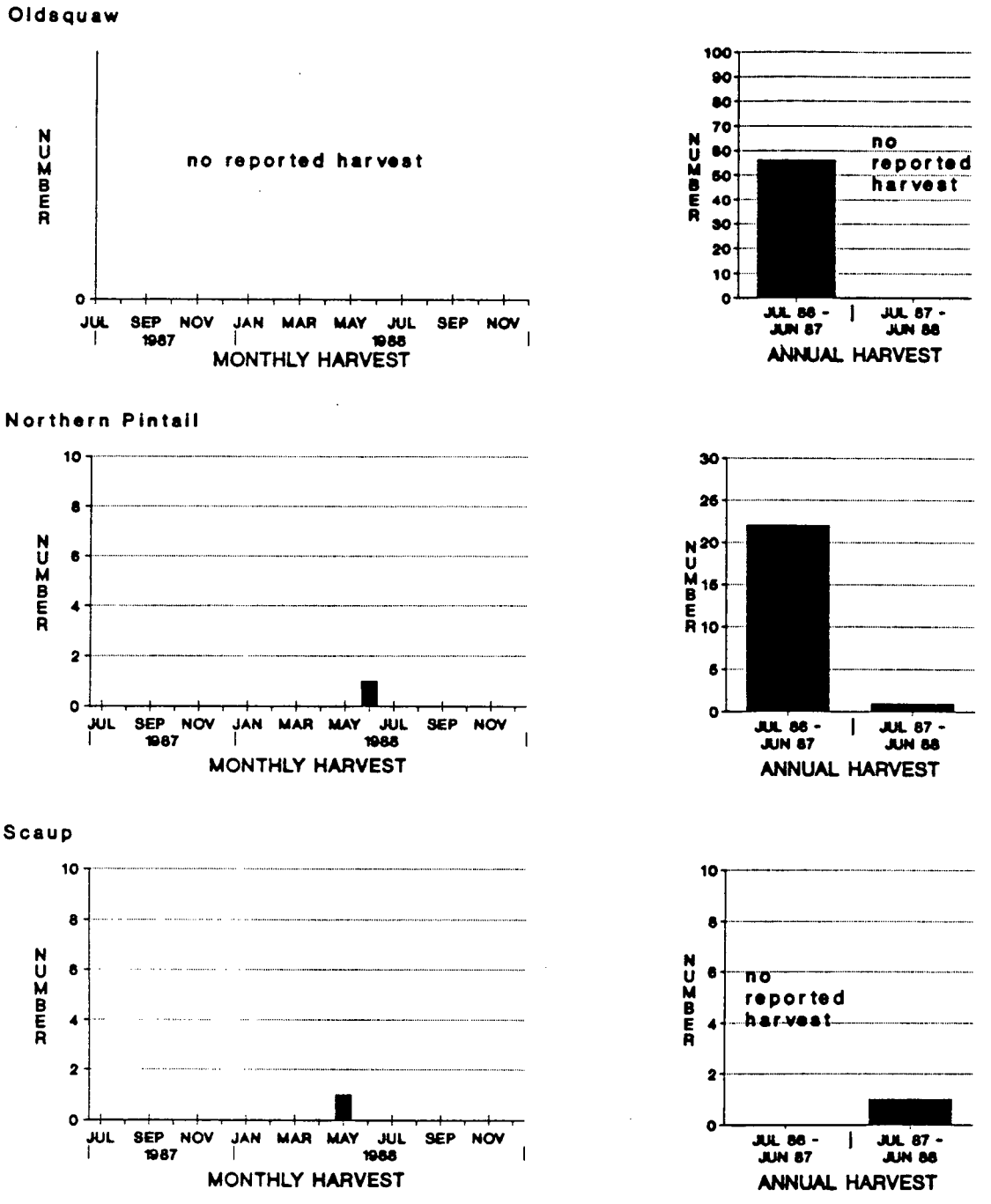
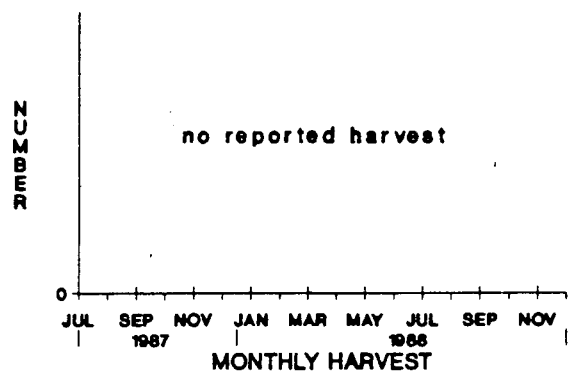
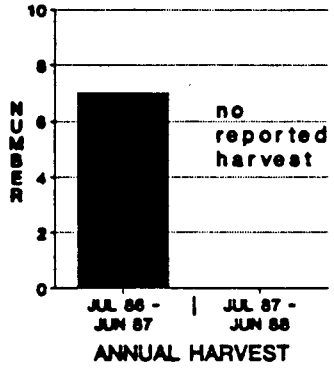


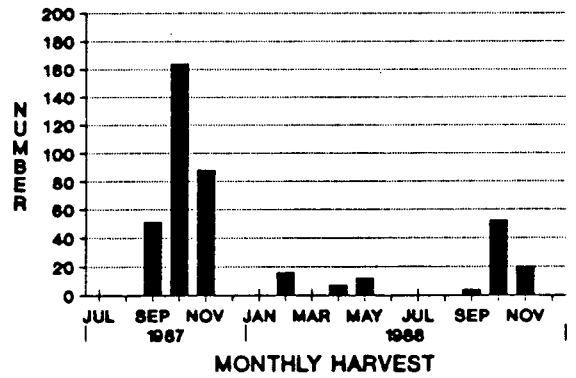
Figure 100: Monthly and annual harvests of Oldsquaw, Northern Pintail, and Scaup, reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.

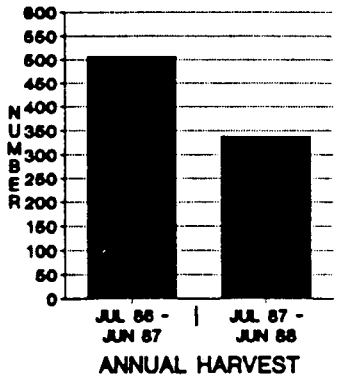
Scoter



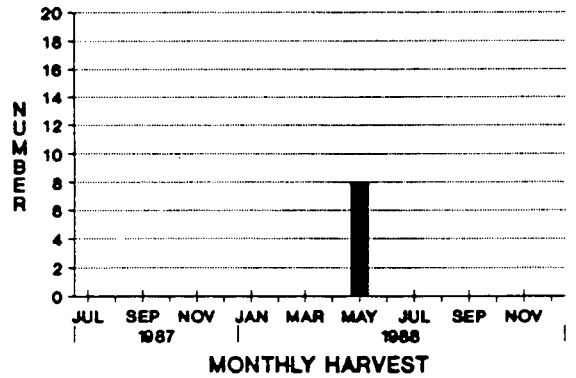


Ptarmigan





Sandhill Crane



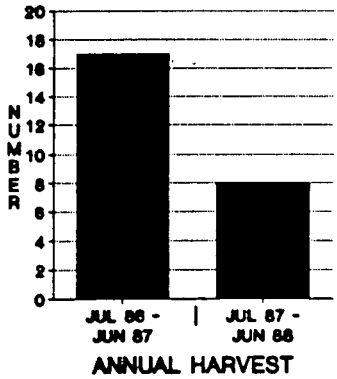


Figure 101: Monthly and annual harvests of Scoter, Ptarmigan, and Sandhill Crane, reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.

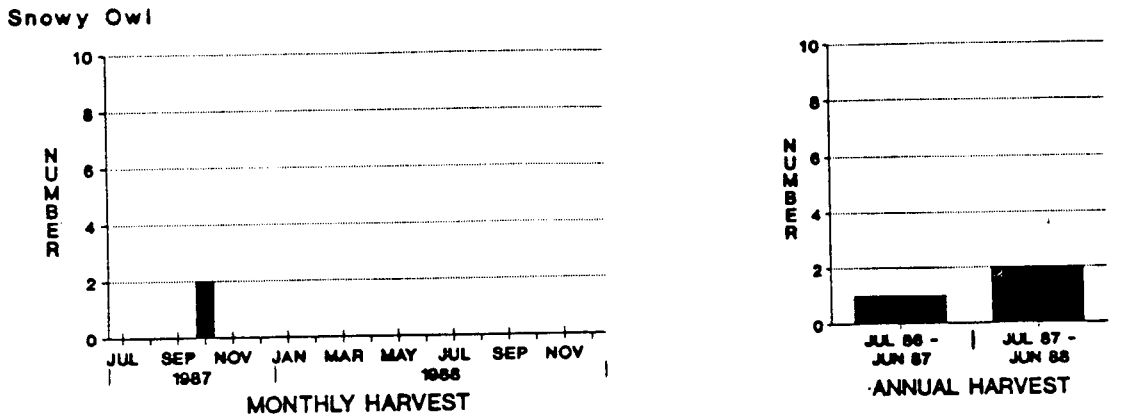


Figure 102: Monthly and annual harvests of Snowy Owl, reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.

11.0 CONCLUSION

The Inuvialuit Harvest Study has successfully gathered and maintained a continuous record of subsistence harvest levels, within the Inuvialuit Settlement Region (ISR). This success is a result of the study origin, the methodologies used in its organization, its design, and implementation.

Hunter cooperation and continued involvement is the most important factor to successfully carrying out this research. The requirement within the Inuvialuit Final Agreement (IFA; Western Arctic Claim, 1984), the fully integrated design process (working groups, community consultations, individual hunter discussions), and the immediate application of information, were major factors contributing to the positive reception and level of hunter cooperation that the study received.

Having the study coordinator conduct the initial survey provided an opportunity for first hand testing of the proposed data collection methods and allowed for modification of these methods during the interviews. Many problems that the field workers would have encountered were alleviated by changing methods prior to them having to carry out interviews, thus avoiding potential data losses. This survey also gave the coordinator an appreciation of the actual effort involved in collecting these harvest statistics.

These interviews also provided a forum for informal discussions with individual hunters and gave the coordinator an opportunity to meet them. The coordinator was able to explain in detail and answer questions on the study rationale, information uses, and methodology with more people than attended the formal HTC meetings. Harvesters were able to see how and what information was being collected. There was more feed back from the hunters during these informal sessions than at the more structured public HTC or IGC meetings. As a function of these interviews, individuals became an integral part of the study design process.

Staff continuity has been fairly well maintained. Of the original seven field workers hired, five are still actively involved with the study. This has helped the study since, over time, field workers have settled into a routine and become more proficient at collecting and reporting harvest information. Familiarity with the hunters and their activities has facilitated

hunter monitoring and arrangement of mutually convenient interview times. This has functioned to reduce hunter disturbance and maintained hunter cooperation and involvement with the study.

The Recall aids were valuable tools for gathering harvest data. Topographic maps were successfully used to record harvest locations. Harvesters found them useful in recalling their harvest levels and appreciated the opportunity to actively participate in the interviews. The 1:250,000 map scale was generally acceptable and adequate, however, there was some difficulty in locating areas in the Mackenzie Delta. The Calendar was well received by the hunters. It elevated the profile of the study and enhanced data collection. The wildlife photographs provided a list of survey species and alleviated some nomenclature problems.

Hunters did not perceive the monthly interview schedule as an undue imposition on their time. Over the course of the study, hunters became more familiar with the information they would be asked to provide, and made a greater effort to pay attention to their harvest levels. This was particularly true for species age and sex information, which became more detailed as the study progressed. Most hunters readily participated in the study. The numbers of hunters not interviewed largely reflects those hunters that could not be contacted. In general community survey coverage was very successful. Low coverage in Inuvik was the result of personnel problems, not the lack of hunter support for the study. Hunters were generally reluctant to report the harvest of Swans, Sandhill Cranes, and the young of the year for Caribou and Muskox. These harvest data should be considered as minimum values.

The quality of coded harvest information improved with changes to the data form and as field workers became more familiar with recording this information. As field workers were not previously familiar with coding biological information it took some time for them to become comfortable with, and completely understand how, the data form worked.

12.0 LITERATURE CITED

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INUVIALUIT HARVEST STUDY
WORKING GROUP
TERMS OF REFERENCE

INUVIALUIT HARVEST STUDY OBJECTIVES

The overall objective of the Inuvialuit Harvest Study (Harvest Study) is to obtain a continuous, long-term record of Inuvialuit harvest levels for each of the six communities in the Inuvialuit Settlement Region. The Harvest Study will collect information about when where and how much fish and wildlife is harvested. This information is to be collected to address the needs of the Inuvialuit for use in management of renewable resources and determination of harvest loss compensation (Inuvialuit Final Agreement (section 14(78)), 1984).

In order to attain these objectives an Inuvialuit Harvest Study Working Group (Working Group) is hereby established. The responsibilities of the Working Group shall include, budget allocation decisions, coordination of funding between sponsoring agencies, technical advisory support, and monitoring implementation of the Harvest Study.

MEMBERSHIP

1) Membership on the Working Group shall consist of one (1) member each from Government of Northwest Territories - Department of Renewable Resources, Department of Fisheries and Oceans, Canadian Wildlife Service, Inuvialuit Game Council, and the Joint Secretariat. Each participant may designate one alternate.

2) Additional members may be added at the discretion of the Working Group.

OPERATING PROCEDURES

3) The representative from the Joint Secretariat is to be the chairman.

4) Each member shall be allowed one (1) vote.

5) The chairman shall be entitled to a vote only in the event of a tie.

6) The Working Group Shall meet not less than once a year.

7) For normal business three (3) members shall constitute a quorum of the Working Group.

8) Not withstanding seven (7), no decision shall be made regarding issues which require the input from a particular agency, in the absence of representation by that agency.

9) The Working Group shall have the ability to conduct its business by tele-conference.

10) Secretarial support shall be provided by the Joint Secretariat.

APPENDIX 1: Inuvialuit Harvest Study Working Group terms of reference.

RESPONSIBILITIES

11) The Working Group Shall:

a) provide guidance and review to assist the Harvest Study in achieving its objectives.

b) provide a forum to review and approve the use and dissemination of information collected through the Harvest Study.

c) provide the reporting mechanism to the funding agencies.

d) Ensure coordination between the Harvest Study and the other renewable resource committees established under the Inuvialuit Final Agreement.

e) shall review the draft annual report of the Harvest Study and provide comment to the Harvest Study Field Coordinator within thirty (30) days of receipt of that report.

f) shall review, and approve the annual proposal and budget.

g) shall approve the final version of the annual report prior to its release.

h) shall review and provide comment on Harvest Study peripherals eg. newsletter, calendar, data sheet format in a timely manner, to the Harvest Study Field Coordinator.

In addition to the above:

12) Data summaries will be made available to the Working Group on a monthly basis.

13) The annual report shall be in Calendar year format and will be completed by 31 March. A data summary will be made available in mid January.

APPENDIX 1: Inuvialuit Harvest Study Working Group terms of reference.

continued

AKLAVIK

Monthly harvest results are presented in appendices 2 to 5. The known hunter population, survey coverage, number of hunters that harvested during each survey period along with the number participating in the harvest of each species are presented in appendices 6 to 9.

APPENDIX 2: Fish harvest reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

ANIMAL NAME	SEX	AGE	ANNUAL HARVEST JULY 1986 TO JUNE 1987	ANNUAL HARVEST JULY 1987 TO JUNE 1988	MONTHLY HARVEST 1987 JUL	AUG	SEP	OCT	NOV	DEC	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Arctic Charr -anadromous	U	U	1822	1390	69	781	438	99								3	41	323	279	6		
Broad Whitefish	U	U	3060	17537	2061	4636	5506	3220	1470	87			9		34	514	1144	2913	1017	1414	1083	30
Lake Whitefish	U	U	1100	7003	1114	1122	1903	2034	695	6		7	5			116	290	732	292	1291	401	
Whitefish spp.	U	U	5321	392	152	50	100		40	50							500		15	197	146	
Cisco	U	U	7395	4828	1376	1925	349	908	15	54						203	778	474	10	419		
Pacific Herring	U	U	15																			
Saffron Cod	U	U																1				
Lake Trout	U	U	12	10		10											41	323	279	6		
Burbot	U	U	3199	4659	89	106	607	935	2819	97	1		1		3	1	3	3	1	1656	1208	40
Inconnu	U	U	2775	3531	502	1306	654	671	201	33		3	11			150	284	887	83	235	13	1
Northern Pike	U	U	2937	4732	493	975	1524	1034	577	36	1	3	14		4	71	74	170	208	571	412	8
Arctic Grayling	U	U	642	28				28									0	1				
Chum Salmon	U	U		105	14	17	37	33	3	0								2				
Fish spp.	U	U																		178	172	

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

APPENDIX 3: Marine Mammal harvest reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Ringed Seal	U	U	6																			
Bearded Seal	U	A		1		1																
	U	U	1																			
	Total Harvest		1	1		1																
Seal spp.	M	A		1										1								
	U	U																1				
	Total Harvest			1										1				1				
Beluga	F	A		8	7	1											1					
	F	J		2	2												2					
	M	A		13	10	2										1	4					
	M	J		2	2	0											1					
	M	U		2	2												1					
	U	A															4					
	U	U	30	1		1																
	Total Harvest		30	28	23	4										1	13					
Walrus	U	U	1																			

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

APPENDIX 4: Mammal harvest reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

ANIMAL NAME	SEX	AGE	ANNUAL HARVEST JULY 1986 TO JUNE 1987	ANNUAL HARVEST JULY 1987 TO JUNE 1988	MONTHLY HARVEST 1987 JUL	AUG	SEP	OCT	NOV	DEC	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Caribou	F	A		511	14	12	17	136	62	39	76	12	95	44	3	2	3	3	1	302	127	59
	F	J		43				13	22	4	3		1				1			9	1	1
	F	Y																			3	
	F	U		115	3	4	3	43	30	5	5	5	4	2	3	8		3		25		
	M	A		213	11	31	35	38	12	23	28	3	19	7		6	8	14	7	26	4	17
	M	J		55		3	3	20	19	2	4	2	2					2	7	63	34	3
	M	Y		1					1											7		
	M	U		81	4	10	4	16	14	1		4			5	22		11	8			
	U	A		7			1	4	2													
	U	J		22				5	15	2								2				
	U	Y		6		4			2											1		
	U	U	670	101	7	4	1	51	19	13						6	2	50	4	4	14	18
	Total Harvest		670	1155	39	68	65	326	198	89	116	26	121	53	11	44	14	85	27	436	182	98
Moose	F	A		5		1		1	1				1	1					1			
	F	J		2										1		1		1				
	F	U		2					2										1			
	M	A		7	1	1	3	1	1									1	1			
	M	J		2			1	1											2			
	M	U																	1			
	U	J		1		1																
	U	U	17	3		1				1			1				1		1			
	Total Harvest		17	22	1	4	4	3	4	1			2	2		1	1	2	7			

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 4: Mammal harvest reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Dall's Sheep	F	A		1				1														
	M	A		4			4															
	M	J		2		1	1															
	M	U		1							1											
	U	U	3	1			1															
	Total Harvest		3	9		1	6	1			1											
Polar Bear	F	A		2										2								
	M	A		3									1	2								
	Total Harvest		*	5									1	4								
Grizzly Bear	M	A		1				1										1	1			
	U	U	6																			
	Total Harvest		6	1				1										1	1			
Black Bear	M	A																				
	M	U		1												1		1				
	U	U		1		1																
	Total Harvest			2		1										1		1				

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year * - no data were collected for June 1986 to July 1987

continued

APPENDIX 4: Mammal harvest reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Wolf	F	A		2					1	0	1											3
	M	A		14					9	1	1		2	1							1	
	M	J																			1	
	U	U	5	1							1										1	0
	Total Harvest		5	17					10	1	3		2	1							3	3
Wolverine	F	A		2										2								
	M	A		2					2	0												
	M	U		1									1								1	
	U	U	26	4					1		1	2									1	1
	Total Harvest		26	9					3	0	1	2	1	2							2	1
Lynx	F	J		1					1													
	M	A		4					2	2												
	U	U	6	5							4		1									2
	Total Harvest		6	10					3	2	4		1									2

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 4: Mammal harvest reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

ANIMAL NAME	SEX	AGE	ANNUAL HARVEST JULY 1986 TO JUNE 1987	ANNUAL HARVEST JULY 1987 TO JUNE 1988	MONTHLY HARVEST 1987 JUL	AUG	SEP	OCT	NOV	DEC	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Arctic Fox																						
-white	U	U	6	10						8	0	1	1								16	11
Red Fox																						
-red	M	J		9					8	1												
	M	U		1					1													
	U	A		1					1												2	
	U	U	129	110					47	11	25	26	1							4	30	15
Total Harvest			129	121					58	11	25	26	1							4	32	15
-cross	M	J		10					9	1												
	M	U		1					1													
	U	U	75	106					39	15	15	32	5	0						2	30	32
Total Harvest			75	117					49	16	15	32	5	0						2	30	32
-silver	M	J		1					1	0												
	U	A																			1	
	U	U	12	31					10	1	20									0	10	8
Total Harvest			12	32					11	1	20									0	11	8
Fox spp.	U	U		2						1	1										17	
Total Fox Harvest			222	280					118	36	60	59	7	0						6	89	66

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 4: Mammal harvest reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Ermine	U	U	5	62					14	27	14	7									3	1
American Marten	U	U		7					7													
American Mink	F	A		2					2													
	M	A		5					5													
	M	U		1						1											4	0
	U	U	258	111					53	42	14	2								1	21	46
Total Harvest			258	119					60	43	14	2								1	24	46
Muskrat	U	U	25210	17721									2528	2044	9298	3851						
American Beaver	U	U	2																			
River Otter	U	U																			1	0
Hare spp.	U	U	1599	1317		66	432	304	169	98	24	50	122	36	11	4			50	108	8	

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

completed

APPENDIX 5: Bird harvest reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
White-fronted Goose	F	U		2												2						
	M	U		3												3						
	U	U	267	263	8	11	140	3							78	23		4	146			
	Total Harvest		267	268	8	11	140	3							78	28		4	146			
Canada Goose	U	U	46	33	1	1	25								7		1					
Snow Goose	U	A																	18			
	U	J																	7			
	U	U	200	266	1	1	139	2							106	17			37			
	Total Harvest		200	266	1	1	139	2							106	17			62			
Brant	U	U	79	1			1															
Goose spp.	U	U		3			2								1				5			
Swan	U	A		5			5															
	U	U	15	20		1	11								7	1	1		3			
	Total Harvest		15	25		1	16								7	1	1		3			
Arctic Loon	U	U		2												2						
Common Loon	U	U	4																			
	Total Harvest		4	2												2						

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 5: Bird harvest reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Canvasback	F	U		4											1	3						
	M	U		5	0	0	0								1	3						
	U	U	2	16			14									2						
Total Harvest			2	25	0	0	14								2	8						
Eider	F	U																		1		
	U	U																	4			
Total Harvest																			4	1		
Gadwall	U	U	3	21			21															
Goldeneye	F	U		2											2							
	M	U		8											8				1			
	U	U	11	1											1							
Total Harvest			11	11											11				1			
Green-winged Teal	F	U		5		3									1	1						
	M	U		4		2									1	1						
	U	U		13	3	3	6															
Total Harvest				22	3	8	6								2	2						

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 5: Bird harvest reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Mallard	F	A		5											5							
	F	U		62			8								23	31			1			
	M	A		6											6							
	M	U		74			9								34	31						
	U	U	259	248	14	21	168								24	21	5	13	14	3		
	Total Harvest		259	395	14	21	185								92	83	5	13	15	3		
Merganser	U	U		1			1															
Oldsquaw	F	U		22	1		5								13	3						
	M	U		19	1										15	3						
	U	U	80	33	2	10	19									2						
	Total Harvest		80	74	4	10	24								28	8						
Northern Pintail	F	U		18											9	9						
	M	U		31											10	21						
	U	U	156	163	30	21	107									5						
	Total Harvest		156	212	30	21	107								19	35						
Scaup	F	U		41			15								12	14						
	M	U		30			1								14	15						
	U	U	33	87		25	52								4	6			10	1		
	Total Harvest		33	158		25	68								29	36			10	1		

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 5: Bird harvest reported by Aklavik (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Scoter	F	A		2			2															
	F	U		33											23	10						
	M	A		2			2															
	M	U		45											31	14						
	U	U	364	316	8	21	247	26							7	6	3		28	5		
Total Harvest			364	398	8	21	251	26							60	31	3		28	5		
Northern Shoveler	M	U		2												2						
	U	U	2	15	2	6	8															
Total Harvest			2	17	2	6	8									2						
American Widgeon	F	A		7			7															
	F	U		71		9	2								38	22						
	M	A		8			8															
	M	U		87		6	7								43	31			4			
	U	U	189	216	19	13	149								21	14	2	6	3			
Total Harvest			189	389	19	28	173								102	67	2	6	7			
Duck spp.	U	U																	5			
Ptarmigan	U	U	831	912	18	55	219	76	242	158	27		2	79	20	16	3	3	108	38		3

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

completed

APPENDIX 6: Hunter survey record and the number of Aklavik (N.W.T.) hunters harvesting Fish, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	77	161	161	161	161	161	161	162	162	162	162	162	162	163	163	162	162	162	161
	- harvested	74	47	61	76	62	82	40	31	16	39	32	49	60	35	36	51	67	51	30
	- did not hunt	3	103	89	74	88	71	115	131	145	123	130	113	100	126	125	108	94	109	130
	- did not interview	0	11	11	11	11	8	6	0	1	0	0	0	2	2	2	3	1	2	1
HUNTERS HARVESTING EACH SPECIES	Arctic Charr (anadromous)	24	7	22	9	6								2	3	14	6	1		
	Broad Whitefish	7	16	28	24	18	10	4			2		2	15	13	18	16	9	7	1
	Lake Whitefish	2	12	12	14	16	5	2		2	1			7	12	16	8	9	8	
	Whitefish spp.	27	2	1	1		1	1							1		1	4	3	
	Cisco	27	9	12	4	5	1	2						3	9	8	1	3		
	Pacific Herring	1																		
	Saffron Cod															1				
	Lake Trout	2		1											3	14	6	1		
	Burbot	25	2	5	4	19	42	5	1		1		1	1	1	2	1	17	20	2
	Inconnu	54	21	26	20	24	21	6		1	2			13	18	17	9	7	5	1
	Northern Pike	45	15	23	23	24	33	6	1	1	2		1	10	9	11	7	16	13	2
	Arctic Grayling	11				2									1	1				
	Chum Salmon		5	8	7	5	2	1								1				
	Fish spp.																	1	1	

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

APPENDIX 7: Hunter survey record and the number of Aklavik (N.W.T.) hunters harvesting Marine Mammals, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	77	161	161	161	161	161	161	162	162	162	162	162	162	163	163	162	162	162	161
	- harvested	74	47	61	76	62	82	40	31	16	39	32	49	60	35	36	51	67	51	30
	- did not hunt	3	103	89	74	88	71	115	131	145	123	130	113	100	126	125	108	94	109	130
	- did not interview	0	11	11	11	11	8	6	0	1	0	0	0	2	2	2	3	1	2	1
HUNTERS HARVESTING EACH SPECIES																				
	Ringed Seal	4																		
	Bearded Seal	1		1																
	Seal spp.											1				1				
	Beluga	20	18	5										1	9					
	Walrus	1																		

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

APPENDIX 8: Hunter survey record and the number of Aklavik (N.W.T.) hunters harvesting Mammals, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	77	161	161	161	161	161	161	162	162	162	162	162	162	163	163	162	162	162	161
	- harvested	74	47	61	76	62	82	40	31	16	39	32	49	60	35	36	51	67	51	30
	- did not hunt	3	103	89	74	88	71	115	131	145	123	130	113	100	126	125	108	94	109	130
	- did not interview	0	11	11	11	11	8	6	0	1	0	0	0	2	2	2	3	1	2	1
HUNTERS HARVESTING EACH SPECIES																				
	Caribou	58	9	19	12	39	33	20	22	7	23	10	2	19	6	8	8	52	26	19
	Moose	15	1	3	4	2	2	1			2	2		1	1	2	5			
	Dall's Sheep	3		1	4	1			1											
	Polar Bear	*									1	4								
	Grizzly Bear	6				1										1	1			
	Black Bear			1										1		1				
	Wolf	5					1	1	2		2	1							2	2
	Wolverine	10					2	1	1	1	1	1							2	1
	Lynx	4					1	1	2		1									1

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

* - no data were collected for July 1986 to June 1987

continued

APPENDIX 8: Hunter survey record and the number of Aklavik (N.W.T.) hunters harvesting Mammals, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	77	161	161	161	161	161	161	162	162	162	162	162	162	163	163	162	162	162	161
	- harvested	74	47	61	76	62	82	40	31	16	39	32	49	60	35	36	51	67	51	30
	- did not hunt	3	103	89	74	88	71	115	131	145	123	130	113	100	126	125	108	94	109	130
	- did not interview	0	11	11	11	11	8	6	0	1	0	0	0	2	2	2	3	1	2	1
HUNTERS HARVESTING EACH SPECIES																				
	Arctic Fox																			
	-white	3						2	1	1	1								2	1
	Red Fox																			
	-red	28					17	9	4	5	1							2	12	6
	-cross	21					13	11	2	2	4	1						2	11	10
	-silver	7					10	3	2									1	8	6
	Fox spp.							1	1										5	
	Ermine	2					4	2	2	2									1	1
	American Marten						2													
	American Mink	27					10	7	4	1								1	9	9
	Muskrat	57									14	16	39	29						
	American Beaver	2																		
	River Otter																		1	1
	Hare spp.	51		5	20	14	13	8	3	3	9	5	1	1			8	9	2	

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

completed

APPENDIX 9: Hunter survey record and the number of Aklavik (N.W.T.) hunters harvesting Birds, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	77	161	161	161	161	161	161	162	162	162	162	162	162	163	163	162	162	162	161
	- harvested	74	47	61	76	62	82	40	31	16	39	32	49	60	35	36	51	67	51	30
	- did not hunt	3	103	89	74	88	71	115	131	145	123	130	113	100	126	125	108	94	109	130
	- did not interview	0	11	11	11	11	8	6	0	1	0	0	0	2	2	2	3	1	2	1
HUNTERS HARVESTING EACH SPECIES																				
	White-fronted Goose	30	2	4	23	1							8	4		1	22			
	Canada Goose	10	1	1	5								2		1					
	Snow Goose	25	1	1	22	1							8	3			6			
	Brant	8			1															
	Goose spp.				1								1				1			
	Swan	8		1	7								4	2	1		2			
	Arctic Loon																			
	Common Loon	1												2						
	Canvasback	1	1	1	3								1	3						
	Eider																1	1		
	Gadwall	1			1															

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period,
- did not interview = hunters that were not interviewed.

continued

APPENDIX 9: Hunter survey record and the number of Aklavik (N.W.T.) hunters harvesting Birds, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	77	161	161	161	161	161	161	162	162	162	162	162	162	163	163	162	162	162	161
	- harvested	74	47	61	76	62	82	40	31	16	39	32	49	60	35	36	51	67	51	30
	- did not hunt	3	103	89	74	88	71	115	131	145	123	130	113	100	126	125	108	94	109	130
	- did not interview	0	11	11	11	11	8	6	0	1	0	0	0	2	2	2	3	1	2	1
HUNTERS HARVESTING EACH SPECIES	Goldeneye	2											4				1			
	Green-winged Teal		1	2	2								1	1						
	Mallard	28	3	5	27								18	18	1	3	3	1		
	Merganser				1															
	Oldsquaw	11	2	1	4								5	4						
	Northern Pintail	26	4	2	15								3	7						
	Scaup	3		1	7								10	7			1	1		
	Scoter	37	2	5	22	2							14	10	1		3	2		
	Northern Shoveler	1	1	2	2									1						
	American Widgeon	16	2	2	18								12	13	1	1	2			
	Duck spp.																1			
	Ptarmigan	49	3	2	11	6	18	7	3		1	4	2	2	1	1	4	3		1

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

completed

INUVIK

Monthly harvest results are presented in appendices 10 to 13. The known hunter population, survey coverage, number of hunters that harvested during each survey period along with the number that harvested each species are presented in appendices 14 to 17.

APPENDIX 10: Fish harvest reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Arctic Charr -anadromous	U	U	3															100	100			
Broad Whitefish	U	U	5684	2210	563	243	531	413	400							60	1630	1346	1620	2627	1042	20
Lake Whitefish	U	U	4670	2250	135	135	646	484	800							50	150	725	2370	3288	615	215
Whitefish spp.	U	U		5673	2998	1657	593	125	300													
Cisco	U	U		1780	1217	558										5	583	310				
Pacific Herring	U	U	1538																			
Pacific Herring/Cisco	U	U		500	500																	
Saffron Cod	U	U	17																			
Lake Trout	U	U	297	11											10	1	5		2			100
Burbot	U	U	4611	605					605									1		1182	1913	400
Inconnu	U	U	1450	1705	811	283	293	122	166							30	130	196	165	285	246	18
Northern Pike	U	U	1638	1740	272	292	604	242	310							20	50	496	210	828	464	58
Arctic Grayling	U	U	9																			

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

APPENDIX 11: Marine Mammal harvest reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Beluga	F	U															3	1				
	M	U															27	1				
	U	U	40	64	64												31					
Total Harvest			40	64	64												61	2				

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

APPENDIX 12: Mammal harvest reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

ANIMAL NAME	SEX	AGE	ANNUAL HARVEST JULY 1986 TO JUNE 1987	ANNUAL HARVEST JULY 1987 TO JUNE 1988	MONTHLY HARVEST 1987 JUL	AUG	SEP	OCT	NOV	DEC	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Caribou	F	A		19	2								7		2	8			2		31	11
	F	J																			3	3
	F	Y		8								2		6							2	5
	F	U		16						6	1	3	3	3			1		3	9	21	17
	M	A		33	2	10			2		9	7	3				1		1		3	
	M	J		2								1			1				6		17	4
	M	Y		6										6				2	2	5	7	5
	M	U		85	1					1	32	30	10	11			5	1	16	10	53	18
	U	A		10								10									1	
	U	J		1							1											2
	U	Y		4						4											2	4
	U	U	525	222	7	16			113	42	13	18	8	5			3		17	26	51	46
	Total Harvest		525	406	12	26			115	53	56	71	31	31	3	8	10	3	47	50	191	115
Moose	F	A		1						1									1			2
	F	U		3					2			1							1			1
	M	A		1						1									2			
	M	J																	1			
	M	Y		1							1								1			
	M	U		2							2								1			
	U	U	16	6					2	2		2							7			3
	Total Harvest		16	14					4	4	3	3							7			3
Dall's Sheep	U	U	2																			

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 12: Mammal harvest reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

ANIMAL NAME	SEX	AGE	ANNUAL HARVEST JULY 1986 TO JUNE 1987	ANNUAL HARVEST JULY 1987 TO JUNE 1988	MONTHLY HARVEST 1987 JUL	AUG	SEP	OCT	NOV	DEC	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Grizzly Bear	U	U	1																			
Black Bear	M	A		3												3						
	M	J																	1			
	U	U	1																			
Total Harvest			1	3												3			1			
Wolf	M	A		1					1													
	M	U		4								2	2									
	U	U	5																		1	
Total Harvest			5	5					1			2	2								1	
Wolverine	U	U	5	4					2			2										1
Lynx	U	U	23	8					3	5											4	5

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 12: Mammal harvest reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

ANIMAL NAME	SEX	AGE	ANNUAL HARVEST JULY 1986 TO JUNE 1987	ANNUAL HARVEST JULY 1987 TO JUNE 1988	MONTHLY HARVEST 1987 JUL	AUG	SEP	OCT	NOV	DEC	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Arctic Fox																						
-white	U	U	2	11						11												
-blue	U	U	6																			1
Total Harvest			8	11						11												1
Red Fox																						
-red	M	A																				2
	U	U	138	74					34	20	7	13									16	18
Total Harvest			138	74					34	20	7	13									16	20
-cross	F	U																			1	
	M	A																				2
	M	U																			1	
	U	U	117	24					10	9	5										18	17
Total Harvest			117	24					10	9	5										20	19
-silver	U	U	10	5					1	2		2										3
-black	U	U		2								2										
Fox spp.	U	U		15						6	4	5									10	10
Total Fox Harvest			273	131					45	48	16	22									46	53

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 12: Mammal harvest reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

ANIMAL NAME	SEX	AGE	ANNUAL HARVEST JULY 1986 TO JUNE 1987	ANNUAL HARVEST JULY 1987 TO JUNE 1988	MONTHLY HARVEST 1987 JUL	AUG	SEP	OCT	NOV	DEC	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Ermine	F	U																			1	
	M	U																			2	
	U	U	41	54					16	4	12	22									42	73
	Total Harvest		41	54					16	4	12	22									45	73
American Marten	F	U																			1	
	M	U																			2	1
	U	U	321	242					103	72	15	52									75	135
	Total Harvest		321	242					103	72	15	52									78	136
American Mink	F	A																			1	
	F	U																			1	1
	M	A																			2	3
	M	U																			3	5
	U	U	192	137					54	24	31	28									56	54
	Total Harvest		192	137					54	24	31	28									63	63
Muskrat	U	U	20555	14513									2221	1518	7095	3679						
American Beaver	U	U	22	10							2					8						
River Otter	U	U	1																			
Hare spp.	U	U	1004	59										59					110	129	15	132

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

completed

APPENDIX 13: Bird harvest reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
White-fronted Goose	U	U	280	218	15	1	165								31	6	15		110			
Canada Goose	U	U	89	51			33	12							3	3		1	108	20		
Snow Goose	U	U	201	286	20		35	20							101	110	28		46			
Brant	U	U	82																			
Swan	U	U	81	11	3		3	3							2			1	1			
Arctic Loon	U	U	1																			
Common Loon	U	U	4																			
Total Harvest			5																			
Canvasback	U	U	46																			
Eider	U	U	1																			
Goldeneye	U	U	42	2											2							
Mallard	F	U																	1			
	M	U																	1			
	U	U	147	49			20								12	17	4	1	94			
Total Harvest			147	49			20								12	17	4	1	96			

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 13: Bird harvest reported by Inuvik (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

ANIMAL NAME	SEX	AGE	ANNUAL HARVEST JULY 1986 TO JUNE 1987	ANNUAL HARVEST JULY 1987 TO JUNE 1988	MONTHLY HARVEST 1987 JUL	AUG	SEP	OCT	NOV	DEC	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Oldsquaw	F	U																	1			
	M	U																	1			
	U	U	79	53											39	14				3		
Total Harvest			79	53											39	14			2	3		
Northern Pintail	U	U	135	16											16				8			
Scaup	U	U	10																10			
Scoter	U	U	238	32											13	19	20		28	4		
Northern Shoveler	U	U	110																			
American Widgeon	U	U	245	33											24	9	3	39	132	10		
Duck spp.	U	U		30												30			60			
Ptarmigan	U	U	448																			

5

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

completed

APPENDIX 14: Hunter survey record and the number of Inuvik (N.W.T.) hunters harvesting Fish, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV.	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	50	215	215	215	215	215	215	221	221	221	221	221	221	218	218	217	217	217	218
	- harvested	50	32	17	20	6	39	19	16	20	22	18	24	17	29	16	29	25	40	26
	- did not hunt	0	50	65	62	76	46	64	68	63	62	67	60	67	56	69	56	60	45	62
	- did not interview	0	133	133	133	133	130	132	137	138	137	136	137	137	133	133	132	132	132	131
HUNTERS HARVESTING EACH SPECIES																				
	Arctic Charr -anadromous	1														1	1			
	Broad Whitefish	26	7	3	3	2	1							2	9	9	7	12	7	1
	Lake Whitefish	8	1	1	2	1	1							1	1	5	6	12	5	2
	Whitefish spp.		16	9	4	2	1													
	Cisco		3	2																
	Pacific Herring	8												1	6	2				
	Pacific Herring/Cisco		1																	
	Saffron Cod	1																		
	Lake Trout	6											1	1	1		1			1
	Burbot	32					9									1		16	19	2
	Inconnu	32	11	5	5	3	6							1	6	7	6	10	15	3
	Northern Pike	34	5	3	3	1	2							2	2	7	7	16	16	3
	Arctic Grayling	3																		

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

APPENDIX 15: Hunter survey record and the number of Inuvik (N.W.T.) hunters harvesting Marine Mammals, for the period July 1986 to December 1988.

			JULY 1986 TO JUNE 1987	1987						1988											
				JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter	- population	50	215	215	215	215	215	215	221	221	221	221	221	221	218	218	217	217	217	218
		- harvested	50	32	17	20	6	39	19	16	20	22	18	24	17	29	16	29	25	40	26
		- did not hunt	0	50	65	62	76	46	64	68	63	62	67	60	67	56	69	56	60	45	62
		- did not interview	0	133	133	133	133	130	132	137	138	137	136	137	137	133	133	132	132	132	131
HUNTERS HARVESTING EACH SPECIES																					
	Beluga		17	22												25	2				

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

APPENDIX 16: Hunter survey record and the number of Inuvik (N.W.T.) hunters harvesting Mammals, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	50	215	215	215	215	215	215	221	221	221	221	221	221	218	218	217	217	217	218
	- harvested	50	32	17	20	6	39	19	16	20	22	18	24	17	29	16	29	25	40	26
	- did not hunt	0	50	65	62	76	46	64	68	63	62	67	60	67	56	69	56	60	45	62
	- did not interview	0	133	133	133	133	130	132	137	138	137	136	137	137	133	133	132	132	132	131
HUNTERS HARVESTING EACH SPECIES																				
	Caribou	33	3	6			18	10	13	13	7	5	1	1	4	2	8	8	28	17
	Moose	8					2	2	1	2							5			2
	Dall's Sheep	2																		
	Grizzly Bear	1																		
	Black Bear	1												1			1			
	Wolf	3					1			1	1								1	
	Wolverine	2					2			1										1
	Lynx	4					1	1											1	1

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

continued

APPENDIX 16: Hunter survey record and the number of Inuvik (N.W.T.) hunters harvesting Mammals, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	50	215	215	215	215	215	215	221	221	221	221	221	221	218	218	217	217	217	218
	- harvested	50	32	17	20	6	39	19	16	20	22	18	24	17	29	16	29	25	40	26
	- did not hunt	0	50	65	62	76	46	64	68	63	62	67	60	67	56	69	56	60	45	62
	- did not interview	0	133	133	133	133	130	132	137	138	137	136	137	137	133	133	132	132	132	131
HUNTERS HARVESTING EACH SPECIES																				
	Arctic Fox																			
	-white	2						1												
	-blue	3																		1
	Red Fox																			
	-red	21					12	4	3	6									6	7
	-cross	19					5	5	3										7	8
	-silver	6					1	2		1										1
	-black									1										
	Fox spp.							1	1	2									1	1
	Ermine	4					3	1	2	3									6	6
	American Marten	10					7	9	2	3									5	5
	American Mink	22					18	7	6	8									13	12
	Muskrat	33									17	13	19	12						
	American Beaver	5							1					1						
	River Otter	1																		
	Hare spp.	29										2					7	4	3	3

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

completed

APPENDIX 17: Hunter survey record and the number of Inuvik (N.W.T.) hunters harvesting Birds, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	50	215	215	215	215	215	215	221	221	221	221	221	221	218	218	217	217	217	218
	- harvested	50	32	17	20	6	39	19	16	20	22	18	24	17	29	16	29	25	40	26
	- did not hunt	0	50	65	62	76	46	64	68	63	62	67	60	67	56	69	56	60	45	62
	- did not interview	0	133	133	133	133	130	132	137	138	137	136	137	137	133	133	132	132	132	131
HUNTERS HARVESTING EACH SPECIES																				
	White-fronted Goose	26	1	1	11								5	1	1		8			
	Canada Goose	18			3	1							2	1		1	6	2		
	Snow Goose	20	1		3	1							9	2	2		5			
	Brant	9																		
	Swan	16	1		1	1							2			1	1			
	Arctic Loon	1																		
	Common Loon	2																		
	Canvasback	5																		
	Eider	1																		
	Goldeneye	2											1							
	Mallard	23			1								2	2	1	1	10			

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

continued

APPENDIX 17: Hunter survey record and the number of Inuvik (N.W.T.) hunters harvesting Birds, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	50	215	215	215	215	215	215	221	221	221	221	221	221	218	218	217	217	217	218
	- harvested	50	32	17	20	6	39	19	16	20	22	18	24	17	29	16	29	25	40	26
	- did not hunt	0	50	65	62	76	46	64	68	63	62	67	60	67	56	69	56	60	45	62
	- did not interview	0	133	133	133	133	130	132	137	138	137	136	137	137	133	133	132	132	132	131
HUNTERS HARVESTING EACH SPECIES																				
	Oldsquaw	14											3	2			1	1		
	Northern Pintail	13											2				2			
	Scaup	1															1			
	Scoter	25											3	3	1		3	1		
	Northern Shoveler	8																		
	American Widgeon	21											2	3	1	3	12	2		
	Duck spp.													1			1			
	Ptarmigan	23																		1

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

completed

TUKTOYAKTUK

Monthly harvest results are presented in appendices 18 to 21. The known hunter population, survey coverage, number of hunters that harvested during each survey period along with the number that harvested each species are presented in appendices 22 to 25.

APPENDIX 18: Fish harvest reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Arctic Charr -anadromous	U	U																	11			
Broad Whitefish	U	U	4420	13914	3535	3942	4380	1334	198	434			61		10	20	295	330	10659			
Lake Whitefish	U	U	8	2194	76	831	348	214	653	54	6	5	8				20	200	1375			
Whitefish spp.	U	U	1000	334	38	34	233								30		155		453	127	123	127
Cisco	U	U	11240	32217	4188	10672	11999	3382	1808	168							2100	650	31602			
Pacific Herring	U	U	2098	2405	98	146	307	134	1582	84					55				3489	1681	469	381
Pacific Herring/Cisco	U	U															1540		400			
Arctic Cod	U	U	10	6				6														
Saffron Cod	U	U	2050	339	2	52	1	160	100						10	15						
Total Harvest			2060	345	2	52	1	166	100						10	15						
Lake Trout	U	U	393	435	30		30	50	21				80	34	171	19	6	4	7			
Burbot	U	U	290	327	13	43	9	59	18	23	69	56	34	2			5		101	3	20	
Inconnu	U	U	1663	4274	997	1581	761	451	214	132	105	15	11	6			332		850		40	
Northern Pike	U	U	81	82				70	10				2						11			
Arctic Grayling	U	U	66	6				6														

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

APPENDIX 19: Marine Mammal harvest reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Ringed Seal	M	A		2			1								1							
	U	U	44	23			14	9								0	0	0	4			
	Total Harvest		44	25			15	9							1	0	0	0	4			
Bearded Seal	U	J		1	1																	
	U	U	1	2			2															
	Total Harvest		1	3	1		2															
Beluga	F	A		23	16	7											2					
	F	U		4	2	1										1						
	M	A		9	8	1											6	1				
	M	U		3	1	1										1	2					
	U	A		8	6	2											17	1				
	U	U	56	18	14	4										2	27	2				
	Total Harvest		56	65	47	16																

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

APPENDIX 20: Mammal harvest reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

ANIMAL NAME	SEX	AGE	ANNUAL HARVEST JULY 1986 TO JUNE 1987	ANNUAL HARVEST JULY 1987 TO JUNE 1988	MONTHLY HARVEST 1987 JUL	AUG	SEP	OCT	NOV	DEC	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Caribou	F	A		371			1	2	211	83	26	41	5	2				9	32	33	92	16
	F	J		6					2	4												
	F	Y																	1			
	F	U		215				4	12	4	53	90	52									
	M	A		138		23	54	1	26		2	13	4	11	4			16	98	25	17	2
	M	J		23			2		13	1	4	2		1						1		
	M	Y																			9	
	M	U		76			1	13	8	5	13	13	23						15			4
	U	J		1									1							1		
	U	Y																	2		3	
	U	U	812	188	6	47	8	7	42	16	31	1	13	17					2	1	8	3
	Total Harvest		812	1018	6	70	66	27	314	113	129	160	98	31	4			25	150	61	129	25
Moose	F	A		1						1												
	F	U		2							1	1										
	M	A																			1	
	M	U		2							1		1									
	U	U	10																			
	Total Harvest		10	5						1	2	1	1								1	

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 20: Mammal harvest reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Polar Bear	F	A		2						1		1										
	F	J		1						1												
	F	Y		1									1									
	M	A		2								1	1									
	M	J		2								1	1									
	M	Y		2							1			1								
	M	U		2								2										
	Total Harvest		*	12						2	1	5	3	1								
Grizzly Bear	M	A		2		1	1													1		
	U	U	12																			
	Total Harvest		12	2		1	1													1		
Wolf	F	A		2						2												
	F	J		2					1	1												
	M	A		5					1	1	2				1							
	M	J		1					1													
	M	U		1							1											
	U	U	38	19					9	3	3	4										
	Total Harvest		38	30					12	7	6	4			1							
Wolverine	M	A		1							1											
	U	U	7	6							6											
	Total Harvest		7	7							7											
Lynx	U	U		4							4											

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year * - no data were collected for July 1986 to June 1987

continued

APPENDIX 20: Mammal harvest reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

ANIMAL NAME	SEX	AGE	ANNUAL HARVEST JULY 1986 TO JUNE 1987	ANNUAL HARVEST JULY 1987 TO JUNE 1988	MONTHLY HARVEST 1987 JUL	AUG	SEP	OCT	NOV	DEC	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Arctic Fox																						
-white	F	U																			3	
	M	U																			2	
	U	U	113	439					74	58	71.0	75	161								13	5
Total Harvest			113	439					74	58	71	75	161								18	5
-blue	U	U	1	1							1										2	
Red Fox																						
-red	F	A		1								1										
	F	U																			5	
	M	A		4								2	2									
	M	U																			2	
	U	U	148	148					54	49	30.6	10	4								7	17
Total Harvest			148	153					54	49	31	13	6								14	17
-cross	F	U																			2	
	M	A		3								2	1									
	M	U																			11	
	U	U	93	74					27	23	11.8	9	2	1							9	13
Total Harvest			93	77					27	23	12	11	3	1							22	13
-silver	F	U																			1	
	U	U	14	17					8	4		4	1									
Total Harvest			14	17					8	4		4	1								1	
Total Fox Harvest			369	687					163	134	115	103	171	1							57	35

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 20: Mammal harvest reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Ermine	U	U		24				12	5	7												
American Marten	M	A		3								2	1									
	U	U	186	499				43	170	159	104	18	5								15	40
	Total Harvest		186	502				43	170	159	104	20	6								15	40
American Mink	M	U		2					2													
	U	U	42	29					4	6	15	4										
	Total Harvest		42	31					6	6	15	4										
Muskrat	U	U		19				7							12							
American Beaver	U	U		1					1													
Hare spp.	U	U	130	151			22		9				88	32								

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

completed

APPENDIX 21: Bird harvest reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

ANIMAL NAME	SEX	AGE	ANNUAL HARVEST JULY 1986 TO JUNE 1987	ANNUAL HARVEST JULY 1987 TO JUNE 1988	MONTHLY HARVEST 1987 JUL	AUG	SEP	OCT	NOV	DEC	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
White-fronted Goose	M	A		2											2							
	U	U	951	1498	1		135								1146	216	3	5	48			
Total Harvest			951	1500	1		135								1148	216	3	5	48			
Canada Goose	U	U	47	43	4										29	10			1			
Snow Goose	F	A		3									1		2							
	M	A		7											7			1				
	U	A																	12			
	U	J																	12			
	U	U	1241	2149		40	573								1067	469	13	231	665			
Total Harvest			1241	2159		40	573						1		1076	469	13	232	689			
Brant	F	A		1											1							
	F	U		2											1	1						
	M	U		2											1	1						
	U	U	709	758	15	3	23								371	345	7	7				
Total Harvest			709	763	15	3	23								374	347	7	7				
Goose spp.	U	U																	15			
Swan	U	U	162	26	2		9	3								12			7			
Common Loon	U	U	19																			

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 21: Bird harvest reported by Tuktoyaktuk (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Canvasback	U	U	6																23			
Eider	U	U		31			27									4			1			
Green-winged Teal	U	U	6	47			47															
Mallard	U	U	11	44			32	6							6			10				
Merganser	U	U	1																6			
Oldsquaw	U	U	46	30			30															
Northern Pintail	U	U	37	110			95									15		4	94			
Scaup	U	U		5			5															
Scoter	F	A		6												6						
	F	U		1												1						
	M	A		4												4						
	M	U		1												1						
	U	U	69	33		15	15									3		4	30			
Total Harvest			69	45		15	15									15		4	30			
Northern Shoveler	U	U	2															6	8			
American Widgeon	U	U		23			23											12	36			
Ptarmigan	U	U	1900	1111		41	336	148	335	61	25	12	30	25		97		35	536	168	50	

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

completed

APPENDIX 22: Hunter survey record and the number of Tuktoyaktuk (N.W.T.) hunters harvesting Fish, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	61	82	82	82	82	82	82	119	119	119	119	119	117	118	118	114	112	112	109
	- harvested	59	44	36	55	25	58	35	36	38	31	17	59	32	26	21	66	21	28	6
	- did not hunt	1	31	39	20	50	18	39	62	61	65	80	36	63	64	67	28	64	62	77
	- did not interview	1	7	7	7	7	6	8	21	20	23	22	24	22	28	30	20	27	22	26
HUNTERS HARVESTING EACH SPECIES																				
	Arctic Charr -anadromous																3			
	Broad Whitefish	25	20	17	18	8	4	2			2		1	1	5	3	32			
	Lake Whitefish	1	5	7	4	4	3	2	1	1	2				1	1	15			
	Whitefish spp.	1	2	1	2								1		3		3	1	1	1
	Cisco	18	11	15	21	8	4	1							4	3	39			
	Pacific Herring	11	2	3	3	2	2	1					2				9	4	2	1
	Pacific Herring/Cisco														5		1			
	Arctic Cod	1				1														
	Saffron Cod	2	1	2	1	2	1						1	1						
	Lake Trout	33	2		1	1	3				6	7	19	4	1	1	2			
	Burbot	18	2	3	2	3	3	4	4	2	3	1			1		15	1	1	
	Inconnu	30	14	15	14	9	9	3	2	1	2	1			4		25		1	
	Northern Pike	5				2	1				1						2			
	Arctic Grayling	4				1														

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

APPENDIX 23: Hunter survey record and the number of Tuktoyaktuk (N.W.T.) hunters harvesting Marine Mammals, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	61	82	82	82	82	82	82	119	119	119	119	119	117	118	118	114	112	112	109
	- harvested	59	44	36	55	25	58	35	36	38	31	17	59	32	26	21	66	21	28	6
	- did not hunt	1	31	39	20	50	18	39	62	61	65	80	36	63	64	67	28	64	62	77
	- did not interview	1	7	7	7	7	6	8	21	20	23	22	24	22	28	30	20	27	22	26
HUNTERS HARVESTING EACH SPECIES																				
	Ringed Seal	15			8	3							1	1	1	1	2			
	Bearded Seal	1	1		1															
	Beluga	29	32	9										1	19	2				

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

APPENDIX 24: Hunter survey record and the number of Tuktoyaktuk (N.W.T.) hunters harvesting Mammals, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	61	82	82	82	82	82	82	119	119	119	119	119	117	118	118	114	112	112	109
	- harvested	59	44	36	55	25	58	35	36	38	31	17	59	32	26	21	66	21	28	6
	- did not hunt	1	31	39	20	50	18	39	62	61	65	80	36	63	64	67	28	64	62	77
	- did not interview	1	7	7	7	7	6	8	21	20	23	22	24	22	28	30	20	27	22	26
HUNTERS HARVESTING EACH SPECIES																				
	Caribou	52	2	6	13	4	50	21	23	27	18	9	2			7	22	17	22	5
	Moose	5						1	1	1	1								1	
	Polar Bear	*						2	1	4	3	1								
	Grizzly Bear	10		1	1													1		
	Wolf	14					7	4	6	3			1							
	Wolverine	5							3											
	Lynx								1											

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

* - no data were collected for June 1986 to July 1987

continued

APPENDIX 24: Hunter survey record and the number of Tuktoyaktuk (N.W.T.) hunters harvesting Mammals, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	61	82	82	82	82	82	82	119	119	119	119	119	117	118	118	114	112	112	109
	- harvested	59	44	36	55	25	58	35	36	38	31	17	59	32	26	21	66	21	28	6
	- did not hunt	1	31	39	20	50	18	39	62	61	65	80	36	63	64	67	28	64	62	77
	- did not interview	1	7	7	7	7	6	8	21	20	23	22	24	22	28	30	20	27	22	26
HUNTERS HARVESTING EACH SPECIES																				
	Arctic Fox																			
	-white	18					14	13	14	8	11								6	1
	-blue	1							1										1	
	Red Fox																			
	-red	25					19	9	9	7	5								6	2
	-cross	21					16	8	5	4	3	1							8	2
	-silver	10					10	5		4	1								1	
	Ermine					1	2	2												
	American Marten	6				1	9	9	7	4	2								1	1
	American Mink	13					3	4	4	2										
	Muskrat					1							1							
	American Beaver						1													
	Hare spp.	9			1		2				5	2								

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

completed

APPENDIX 25: Hunter survey record and the number of Tuktoyaktuk (N.W.T.) hunters harvesting Birds, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	61	82	82	82	82	82	82	119	119	119	119	119	117	118	118	114	112	112	109
	- harvested	59	44	36	55	25	58	35	36	38	31	17	59	32	26	21	66	21	28	6
	- did not hunt	1	31	39	20	50	18	39	62	61	65	80	36	63	64	67	28	64	62	77
	- did not interview	1	7	7	7	7	6	8	21	20	23	22	24	22	28	30	20	27	22	26
HUNTERS HARVESTING EACH SPECIES																				
	White-fronted Goose	52	1		4								49	16	1	2	8			
	Canada Goose	14	1										6	1			1			
	Snow Goose	47		2	25						1		49	19	1	12	24			
	Brant	36	1	1	2								20	21	1	1				
	Goose spp.																1			
	Swan	35	1		3	1								4			4			
	Common Loon	6																		
	Canvasback	1															2			
	Eider				2									1			1			
	Green-winged Teal	1			3															

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

continued

APPENDIX 25: Hunter survey record and the number of Tuktoyaktuk (N.W.T.) hunters harvesting Birds, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	61	82	82	82	82	82	82	119	119	119	119	119	117	118	118	114	112	112	109
	- harvested	59	44	36	55	25	58	35	36	38	31	17	59	32	26	21	66	21	28	6
	- did not hunt	1	31	39	20	50	18	39	62	61	65	80	36	63	64	67	28	64	62	77
	- did not interview	1	7	7	7	7	6	8	21	20	23	22	24	22	28	30	20	27	22	26
HUNTERS HARVESTING EACH SPECIES																				
	Mallard	4			5	1							1			1				
	Merganser	1															1			
	Oldsquaw	8			2															
	Northern Pintail	8			4									2		1	8			
	Scaup				1															
	Scoter	15		1	2									3		1	3			
	Northern Shoveler	1														1	1			
	American Widgeon				2											1	2			
	Ptarmigan	42		2	8	8	17	3	1	1	3	2		5		2	24	3	1	

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

completed

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Monthly harvest results are presented in appendices 26 to 29. The known hunter population, survey coverage, number of hunters that harvested during each survey period along with the number participating in the harvest of each species are presented in appendices 30 to 33.

APPENDIX 26: Fish harvest reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Arctic Charr																						
-anadromous	U	U	3153	2392	141	1132	10	388	163				40			518	348	1301	38	514	70	
-landlocked	U	U	490	200	10	30	3	10	2						71	74	12	4	1			
Broad Whitefish	U	U	1298	2016	300	156	111	465	79							905	404	1	2	402	8	
Lake Whitefish	U	U	2165	840			97	373	368	2									340	72		
Whitefish spp.	U	U		2									2						42			
Cisco	U	U	4100	164		5	61	29	36							33	13	195	12			
Pacific Herring	U	U	446	57	46											11	3	24				
Arctic Cod	U	U	268																			
Saffron Cod	U	U	382																			
Lake Trout	U	U	1044	873	58	193	113	122	104	8			96	46	19	115	65		72	26	1	
Burbot	U	U	48	37		2	9	12	13				1						2		1	
Inconnu	U	U																1				
Northern Pike	U	U		1			1												2			
Arctic Grayling	U	U	118	12					12											10		

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

APPENDIX 27: Marine Mammal harvest reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Ringed Seal	U	U	113	61	14		2		2			13		7	13	10	2		10			
Bearded Seal	U	U	17	6	4							1				1	3					
Seal spp.	U	U		4									2			2						
Beluga	U	U	3																			

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

APPENDIX 28: Mammal harvest reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Caribou	F	A		333			17	40	50	17	9	33	23	78	64	2		1	9	82	27	3
	F	J																2		2	6	3
	F	Y		4					2	1				1								
	F	U		39		7						7	2	20	3				6		5	
	M	A		249	50	42	56	58	2						1	40	18	19	73	28		
	M	J															1	1	1	7	4	1
	M	Y		68		4	5		25	7		17	7	3					1			
	M	U		14		5	6					1				2	2	4	20			
	U	U	647	8											4	4	1	3	3	7	4	
	Total Harvest		647	715	50	58	84	98	79	25	9	58	32	102	72	48	22	30	113	126	46	7
Muskox	M	A		2					1					1						2		
	U	U	10	6					3	1		1		1								
	Total Harvest		10	8					4	1		1		2						2		
Moose	M	A																		1		
Polar Bear	F	A		5								2		3								
	M	A		2							2											
	Total Harvest		*	7							2	2		3								

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year * - no data were collected for July 1986 to June 1987

continued

APPENDIX 28: Mammal harvest reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Grizzly Bear	F	A		1					1													
	U	U		1			1															
	Total Harvest			2			1		1													
Wolf	F	A		5										5								
	F	U		2										2								
	M	A		12										12								
	M	J																		1		
	M	U		7										7							2	
	U	U	44	15					4	2	1	1	1	6						1	4	
	Total Harvest		44	41					4	2	1	1	1	32						2	6	
Wolverine	F	U		1										1							1	
	M	U		2										2							2	1
	U	U	23	16					3	4	3	1	4	1							3	
	Total Harvest		23	19					3	4	3	1	4	4							6	1

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 28: Mammal harvest reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Arctic Fox																						
-white	U	U	71	532					49	301	68	87	27								2	
-blue	U	U	1	1						1												
Total Harvest			72	533					49	302	68	87	27								2	
Red Fox																						
-red	U	U	98	50					9	25	4	3	9								29	1
-cross	U	U	85	37					4	12	9	8	4								14	
-silver	U	U	4	2					1	1												
Total Harvest			187	89					14	38	13	11	13								43	1
Total Fox Harvest			259	622					63	340	81	98	40								45	1
Ermine	U	U		55					26	29										10	6	
American Marten	U	U	167	126				6	64	35	11	10								3	45	8
American Mink	U	U	3	4					2			1		1							2	
Muskrat	U	U	245	1											1							
Hare spp.	U	U	11	8					6					2						3		

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

completed

APPENDIX 29: Bird harvest reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988. Harvest is reported to the nearest whole number (see analysis).

ANIMAL NAME	SEX	AGE	ANNUAL HARVEST JULY 1986 TO JUNE 1987	ANNUAL HARVEST JULY 1987 TO JUNE 1988	MONTHLY HARVEST 1987 JUL	AUG	SEP	OCT	NOV	DEC	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
White-fronted Goose	U	U	433	376											361	15			1			
Canada Goose	U	U	374	325											311	14	9					
Snow Goose	U	U	1283	1487											1487				20			
Snow Goose (blue)	U	U	2	3											3							
Total Harvest			1285	1490											1490				20			
Brant	U	U	57	23											8	15						
Ross Goose	U	U	6																			
Swan	U	U	43	27											27							
Arctic Loon	U	U	25																			
Common Loon	U	U	10	4	2										1	1	2		2			
Yellow-billed Loon	U	U	32	2											2							
Total Harvest			67	6	2										3	1	2		2			
Canvasback	U	U	15	1			1															
Eider	U	U	131	95	6	55									2	32			1			
Merganser	U	U	56	22	20		1								1		11					

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 29: Bird harvest reported by Paulatuk (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Oldsquaw	U	U	264	211	51	45	4								38	73	15	11	50			
Northern Pintail	U	U	46	12											8	4						
Scaup	U	U		12											12							
Scoter	U	U	39	1												1						
Ptarmigan	U	U	2094	1168		30	209	294	155	10	10	104	215	135	6			7	247	181	44	22

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

completed

APPENDIX 30: Hunter survey record and the number of Paulatuk (N.W.T.) hunters harvesting Fish, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	54	63	63	63	63	63	62	62	62	62	62	62	62	63	63	63	63	63	63
	- harvested	54	21	31	21	24	27	19	11	20	28	36	52	29	22	25	31	33	22	4
	- did not hunt	0	42	32	42	39	36	43	51	42	34	26	10	33	41	38	32	30	41	59
	- did not interview	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNTERS HARVESTING EACH SPECIES																				
	Arctic Charr -anadromous	27	5	18	1	9	5				3			8	11	14	1	17	3	
	-landlocked	25	1	1	1	1	1						4	7	2	1	1			
	Broad Whitefish	17	3	5	3	8	6							5	7	1	1	10	1	
	Lake Whitefish	11			2	5	7	1									4	2		
	Whitefish spp.										1						1			
	Cisco	7		1	2	1	2							3	1	2	2			
	Pacific Herring	8	2											2	1	1				
	Arctic Cod	7																		
	Saffron Cod	11																		
	Lake Trout	41	5	7	10	7	4	1			13	4	3	10	7		9	3	1	
	Burbot	13		1	2	2	4				1						1		1	
	Inconnu															1				
	Northern Pike				1												1			
	Arctic Grayling	5					1											1		

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

APPENDIX 31: Hunter survey record and the number of Paulatuk (N.W.T.) hunters harvesting Marine Mammals, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	54	63	63	63	63	63	62	62	62	62	62	62	62	63	63	63	63	63	63
	- harvested	54	21	31	21	24	27	19	11	20	28	36	52	29	22	25	31	33	22	4
	- did not hunt	0	42	32	42	39	36	43	51	42	34	26	10	33	41	38	32	30	41	59
	- did not interview	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNTERS HARVESTING EACH SPECIES																				
	Ringed Seal	18	2		2		1			3		5	3	5	1		2			
	Bearded Seal	10	4							1				1	2					
	Seal spp.										1			1						
	Beluga	3																		

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

APPENDIX 32: Hunter survey record and the number of Paulatuk (N.W.T.) hunters harvesting Mammals, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	54	63	63	63	63	63	62	62	62	62	62	62	62	63	63	63	63	63	63
	- harvested	54	21	31	21	24	27	19	11	20	28	36	52	29	22	25	31	33	22	4
	- did not hunt	0	42	32	42	39	36	43	51	42	34	26	10	33	41	38	32	30	41	59
	- did not interview	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNTERS HARVESTING EACH SPECIES																				
	Caribou	50	10	16	18	12	12	6	2	12	12	26	22	19	11	13	25	22	11	2
	Muskox	5					2	1		1		2						2		
	Moose																	1		
	Polar Bear	*							2	2		3								
	Grizzly Bear				1		1													
	Wolf	9					2	2	1	1	1	9						2	3	
	Wolverine	12					2	3	2	1	2	2							4	1
	Arctic Fox																			
	-white	13					7	14	7	9	3								1	
	-blue	1						1												
	Red Fox																			
	-red	22					7	7	3	2	2								11	1
	-cross	18					3	5	4	3	3								7	
	-silver	4					1	1												

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

* - no data were collected for July 1986 to June 1987

continued

APPENDIX 32: Hunter survey record and the number of Paulatuk (N.W.T.) hunters harvesting Mammals, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	54	63	63	63	63	63	62	62	62	62	62	62	62	63	63	63	63	63	63
	- harvested	54	21	31	21	24	27	19	11	20	28	36	52	29	22	25	31	33	22	4
	- did not hunt	0	42	32	42	39	36	43	51	42	34	26	10	33	41	38	32	30	41	59
	- did not interview	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNTERS HARVESTING EACH SPECIES																				
	Ermine						2	5										1	1	
	American Marten	8				2	6	6	2	2								2	7	2
	American Mink	3					2			1		1							2	
	Muskrat	3											1							
	Hare spp.	7					3					1						1		

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

completed

APPENDIX 33: Hunter survey record and the number of Paulatuk (N.W.T.) hunters harvesting Birds, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	54	63	63	63	63	63	62	62	62	62	62	62	62	63	63	63	63	63	63
	- harvested	54	21	31	21	24	27	19	11	20	28	36	52	29	22	25	31	33	22	4
	- did not hunt	0	42	32	42	39	36	43	51	42	34	26	10	33	41	38	32	30	41	59
	- did not interview	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNTERS HARVESTING EACH SPECIES	White-fronted Goose	41											45	4			1			
	Canada Goose	42											47	3	2					
	Snow Goose	45											50				3			
	Snow Goose (blue)	2											3							
	Brant	11											2	1						
	Ross Goose	3																		
	Swan	18											13							
	Arctic Loon	7																		
	Common Loon	2	1										1	1	1		1			
	Yellow-billed Loon	12											1							

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

continued

APPENDIX 33: Hunter survey record and the number of Paulatuk (N.W.T.) hunters harvesting Birds, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	54	63	63	63	63	63	62	62	62	62	62	62	62	63	63	63	63	63	63
	- harvested	54	21	31	21	24	27	19	11	20	28	36	52	29	22	25	31	33	22	4
	- did not hunt	0	42	32	42	39	36	43	51	42	34	26	10	33	41	38	32	30	41	59
	- did not interview	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HUNTERS HARVESTING EACH SPECIES																				
	Canvasback	2			1															
	Eider	16	1	5									1	4			1			
	Merganser	7	2		1								1		2					
	Oldsquaw	24	4	3	1								7	6	2	2	3			
	Northern Pintail	12											3	2						
	Scaup												6							
	Scoter	5												1						
	Ptarmigan	44		1	9	11	9	1	1	6	11	5	2			1	12	8	3	2

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

completed

HOLMAN

Monthly harvest results are presented in Appendices 34 to 37. The known hunter population, survey coverage, number of hunters that harvested during each survey period along with the number participating in the harvest of each species are presented in appendices 38 to 41.

APPENDIX 34: Fish harvest reported by Holman (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Arctic Charr																						
-anadromous	U	U	8953	7659	3179	794	850	1923								913	1592	2403	33	4386		
-landlocked	U	U	207	28	3											25						
Broad Whitefish	U	U	300																			
Arctic Cod	U	U	13																			
Cod spp.	U	U	5															1				
Lake Trout	U	U	4389	3448	637	215	179	739			3	4	28	166	975	503	198	36	12	57		

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

APPENDIX 35: Marine Mammal harvest reported by Holman (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Ringed Seal	F	A		1							1											
	M	A		1							1											
	U	A		1							1											
	U	U	1115	635	119	114	66	62	4	5	8	35	26	7	22	167	365	346	34	2	36	25
Total Harvest			1115	638	119	114	66	62	4	5	11	35	26	7	22	167	365	346	34	2	36	25
Bearded Seal	F	A		2										1	1				1			
	M	A															2					
	M	J															1					
	U	U	20	6	2	2	1	2									3	3				
Total Harvest			20	8	2	2	1	2						1	1		6	3	1			

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

APPENDIX 36: Mammal harvest reported by Holman (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Caribou	F	A		204	32	8	7	15	63	7	34	6	6	14	12		14	14		50	44	12
	F	J		16	2			4	6		2			2			2			1		
	F	Y		42	3	2	2	7	16		13						2	2		5	2	3
	F	U															3				3	
	M	A		191	19	8	6	7	40	9	30	6	20	19	27	1	30	14	1	15	24	9
	M	J		31	2	1	1	1	12		2	3		6	4		23	4		19		
	M	Y		72	10	0	0	6	27	2	14	2	3	4	3		7	6		5	1	
	M	U		5											5		2					
	U	A																			2	
	U	J		2							2								2		2	
	U	Y		9	0	0	0	0	2	2	2				2		7			12	35	4
	U	U	712	71	7	4			20	10		4	22	4								
Total Harvest			712	643	75	23	16	40	186	30	99	21	51	49	53	1	90	40	3	107	113	28
Muskox	F	A		15					7	1		1	2		4				1			
	F	J		3							2		1									
	F	Y		1					1											1		
	M	A		39	2	2	3	2	1	2	1	4	5	3	15		3	5	1	3	1	
	M	J		8				1			2	3		1	1		2	2	1	1		
	M	Y		4	0	0	0	1			1				1		1			1		
	U	A		2								2										
	U	J															1					
	U	Y		1								1										
	U	U	116	24	3	4	2	3	3				8	2			1		3			
Total Harvest			116	97	5	6	5	7	12	3	6	11	16	6	21		8	7	6	6	1	

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 36: Mammal harvest reported by Holman (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

ANIMAL NAME	SEX	AGE	ANNUAL HARVEST JULY 1986 TO JUNE 1987	ANNUAL HARVEST JULY 1987 TO JUNE 1988	MONTHLY HARVEST 1987 JUL	AUG	SEP	OCT	NOV	DEC	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Polar Bear	F	A		9							1	1		6	1							
	F	J		1										1								
	M	A		9							1			7	1							
	U	J		1								1										
Total Harvest			*	20							2	2		14	2							
Wolf	U	U	2	1				1														
Wolverine	U	U	1																			
Arctic Fox																						
-white	U	U	217	1915					947	328	321	163	55	101							8	2
-blue	U	U		4					4													
Total Harvest			217	1919					951	328	321	163	55	101							8	2
Red Fox																						
-red	U	U	7	1										1							2	
-cross	U	U	3	1					1													
-silver	U	U	1																			
Total Harvest			11	2					1					1							2	
Total Fox Harvest			228	1921					952	328	321	163	55	102							10	2
Ermine	U	U		1					1													
Hare spp.	U	U	109	44	4	6	4	6	5	3				14	2			1	8			1

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year * - not data were collected for July 1986 to June 1987

completed

APPENDIX 37: Bird harvest reported by Holman (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
White-fronted Goose	U	U	3																			
Canada Goose	U	U	188	80											70	10		2	1			
Snow Goose	U	U	262	6											2	4		26				
Brant	U	U	37	6			6											2				
Goose spp.	U	U																2				
Swan	U	U	4																			
Arctic Loon	U	U	1	39	7	9	17	7										5	4			
Common Loon	U	U	1	2	1	1	0	1														
Yellow-billed Loon	U	U	105																			
Loon spp.	U	U		26	6	6	6	6								3	3		1			
Total Harvest			107	67	13	15	23	13								3	3	5	5			
Eider	U	U	2816	4681	45	57	59	45								4475		5	269			
Oldsquaw	U	U	39																5			
Northern Pintail	U	U	2																			
Ptarmigan	U	U	202	41	1	1	1	1	11	6				13	7							
Sandhill Crane	U	U	21	4											4							
Snowy Owl	U	U		1		1																

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

APPENDIX 38: Hunter survey record and the number of Holman (N.W.T.) hunters harvesting Fish, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	56	81	81	81	81	81	78	79	78	77	77	77	77	76	75	74	74	74	74
	- harvested	55	51	36	33	41	40	18	29	28	17	35	32	65	41	40	22	32	20	12
	- did not hunt	1	29	44	47	39	39	57	48	48	57	39	41	9	32	32	49	39	51	59
	- did not interview	0	1	1	1	1	2	3	2	2	3	3	4	3	3	3	3	3	3	3
HUNTERS HARVESTING EACH SPECIES																				
	Arctic Charr																			
	-anadromous	42	36	19	19	27								11	25	25	1	22		
	-landlocked	17	1											1						
	Broad Whitefish	1																		
	Arctic Cod	1																		
	Cod spp.	1														1				
	Lake Trout	53	22	18	18	30			1	3	5	16	27	16	8	3	3	4		

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

APPENDIX 39: Hunter survey record and the number of Holman (N.W.T.) hunters harvesting Marine Mammals, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	56	81	81	81	81	81	78	79	78	77	77	77	77	76	75	74	74	74	74
	- harvested	55	51	36	33	41	40	18	29	28	17	35	32	65	41	40	22	32	20	12
	- did not hunt	1	29	44	47	39	39	57	48	48	57	39	41	9	32	32	49	39	51	59
	- did not interview	0	1	1	1	1	2	3	2	2	3	3	4	3	3	3	3	3	3	3
HUNTERS HARVESTING EACH SPECIES																				
	Ringed Seal	41	26	22	22	20	2	3	5	9	3	2	8	26	25	19	12	2	5	9
	Bearded Seal	12	5	5	5	5						1	1		4	2	1			

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

APPENDIX 40: Hunter survey record and the number of Holman (N.W.T.) hunters harvesting Mammals, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	56	81	81	81	81	81	78	79	78	77	77	77	77	76	75	74	74	74	74
	- harvested	55	51	36	33	41	40	18	29	28	17	35	32	65	41	40	22	32	20	12
	- did not hunt	1	29	44	47	39	39	57	48	48	57	39	41	9	32	32	49	39	51	59
	- did not interview	0	1	1	1	1	2	3	2	2	3	3	4	3	3	3	3	3	3	3
HUNTERS HARVESTING EACH SPECIES																				
	Caribou	45	21	11	10	14	28	7	22	11	9	18	13	1	20	12	1	20	17	9
	Muskox	29	6	7	7	8	6	3	4	8	4	4	7		7	5	4	6	1	
	Polar Bear	*							2	2		4	2							
	Wolf	2				1														
	Wolverine	1																		
	Arctic Fox																			
	-white	15					30	16	17	12	4	10							3	1
	-blue						3													
	Red fox																			
	-red	6										1							1	
	-cross	3					1													
	-silver	1																		
	Ermine						1													
	Hare spp.	22	7	8	7	9	3	1				3	1			1	5			1

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

* - no data were collected for July 1986 to June 1987

APPENDIX 41: Hunter survey record and the number of Holman (N.W.T.) hunters harvesting Birds, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	56	81	81	81	81	81	78	79	78	77	77	77	77	76	75	74	74	74	74
	- harvested	55	51	36	33	41	40	18	29	28	17	35	32	65	41	40	22	32	20	12
	- did not hunt	1	29	44	47	39	39	57	48	48	57	39	41	9	32	32	49	39	51	59
	- did not interview	0	1	1	1	1	2	3	2	2	3	3	4	3	3	3	3	3	3	3
HUNTERS HARVESTING EACH SPECIES																				
	White-fronted Goose	1																		
	Canada Goose	31											11	3		1	1			
	Snow Goose	9											1	2		1				
	Brant	8			1											1				
	Goose spp.															1				
	Swan	2																		
	Arctic Loon	1	7	8	9	7										2	1			
	Common Loon	1	1	1	1	1														
	Yellow-billed Loon	28																		
	Loon spp.		5	5	5	5								1	2		1			

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

continued

APPENDIX 41: Hunter survey record and the number of Holman (N.W.T.) hunters harvesting Birds, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	56	81	81	81	81	81	78	79	78	77	77	77	77	76	75	74	74	74	74
	- harvested	55	51	36	33	41	40	18	29	28	17	35	32	65	41	40	22	32	20	12
	- did not hunt	1	29	44	47	39	39	57	48	48	57	39	41	9	32	32	49	39	51	59
	- did not interview	0	1	1	1	1	2	3	2	2	3	3	4	3	3	3	3	3	3	3
HUNTERS HARVESTING EACH SPECIES																				
	Eider	50	11	12	12	11								64		2	14			
	Oldsquaw	10															1			
	Northern Pintail	1																		
	Ptarmigan	17	2	2	2	2	2	1				4	1							
	Sandhill Crane	12											1							
	Snowy Owl			1																

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

completed

SACHS HARBOUR

Monthly harvests are presented in appendices 42 to 45. The known hunter population, survey coverage, number of hunters that harvested during each survey period along with the number participating in the harvest of each species are presented in appendices 46 to 49.

APPENDIX 42: Fish harvest reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

ANIMAL NAME	SEX	AGE	ANNUAL HARVEST JULY 1986 TO JUNE 1987	ANNUAL HARVEST JULY 1987 TO JUNE 1988	MONTHLY HARVEST 1987 JUL	AUG	SEP	OCT	NOV	DEC	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Arctic Charr																						
-anadromous	U	U	621	489				20					3	33	386	47	38		1	11		
-landlocked	U	U	61	20	4	8	8															
Broad Whitefish	U	U	150																			
Saffron Cod	U	U	141														8					
Lake Trout	U	U	750	214		14	41						4	13	109	33		1		18		
Burbot	U	U	20																			
Northern Pike	U	U	11																			

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

APPENDIX 43: Marine Mammal harvest reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Ringed Seal	F	A		8							1				3	4	2	22		2	1	
	F	Y																3				
	M	A		11							1				5	5	5	23		2	2	
	M	Y																3				
	U	U	475	180	32	57	60	3	1		3			4		21	20	19				
	Total Harvest		475	199	32	57	60	3	1		5			4	8	30	27	70		4	3	
Bearded Seal	F	A		2												2		2				
	F	J		1												1	1					
	M	J																1				
	U	Y																3				
	U	U	41	6		2					2		2									
	Total Harvest		41	9		2					2		2			3	1	6				
Seal spp.	U	U		5										5								
Walrus	M	A		1				1									2					
	U	U	3																			
	Total Harvest		3	1				1									2					

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

APPENDIX 44: Mammal harvest reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Caribou	F	A		245		12	8	138	65	1	13	5	1	2				11		71	32	2
	F	J		4					3				1							4	1	
	F	Y		44		2	7	11	18	1	2	3									7	2
	F	U		17				11	6													
	M	A		75		9	3	18	32	5	3	3		2			1	6	1	13	13	5
	M	J		9			1	1	5				1	1					1	5		
	M	Y		32		1		15	12		3	1									1	1
	M	U		4				2	2													
	U	U	385																	6		
	Total Harvest		385	430		24	19	196	143	7	21	12	3	5			1	17	2	99	54	10
Muskox	F	A		81		1	5	11	15	6	5	5	15	5	12	1			1	7	12	1
	F	J		5					4						1					1	1	
	F	Y		1										1								1
	M	A		137		12	7	23	21	4	3	13	14	17	14	9	3	13	6	13	9	16
	M	J		8					3				1		4					3	1	
	M	Y		3						1		1				1						
	U	U	239																29	4		
	Total Harvest		239	235		13	12	34	43	11	8	19	30	23	31	11	3	13	36	28	23	18

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 44: Mammal harvest reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

ANIMAL NAME	SEX	AGE	ANNUAL HARVEST JULY 1986 TO JUNE 1987	ANNUAL HARVEST JULY 1987 TO JUNE 1988	MONTHLY HARVEST 1987 JUL	AUG	SEP	OCT	NOV	DEC	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Polar Bear	F	A		1										1								
	F	J		1				1														
	M	A		6									2	3	1							
	M	J		2				1	1													
Total Harvest			*	10				2	1				2	4	1							
Wolf	F	A		2				2														
	M	A		2				2														
	U	U	1																			
Total Harvest			1	4				4														
Arctic Fox																						
-white	U	U	352	283					185	43			40	15							50	50
-blue	U	U	7	3					1	2												
Total Harvest			359	286					186	45			40	15							50	50
Red Fox																						
-cross	U	U	1																			
Total Fox Harvest			360	286					186	45			40	15							50	50
Hare spp.	U	U	287	130			4	30	27	12	2	15	4	36				3				6

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year * - no data were collected for July 1986 to June 1987

completed

APPENDIX 45: Bird harvest reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
White-fronted Goose	U	U	5	1											1							
Canada Goose	U	U	1	1											1							
Snow Goose	U	U	1927	1395											1019	376						
Snow Goose (blue)	U	U	1																			
Brant	U	U	169	76												76						
Swan	U	U	11																			
Arctic Loon	U	U	1																			
Common Loon	U	U	1																			
Yellow-billed Loon	U	U	12																			
Total Harvest			14																			
Eider	F	A		1												1						
	M	A		2												2						
	U	U	133	31			10								6	15						
Total Harvest			133	34			10								6	18						
Green-winged Teal	F	A		1											1							
	M	A		1											1							
Total Harvest				2											2							

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

continued

APPENDIX 45: Bird harvest reported by Sachs Harbour (N.W.T.) hunters, for the period July 1986 to December 1988.
Harvest is reported to the nearest whole number (see analysis).

			ANNUAL HARVEST		MONTHLY HARVEST																	
			JULY 1986 TO JUNE 1987	JULY 1987 TO JUNE 1988	1987						1988											
ANIMAL NAME	SEX	AGE			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Mallard	U	U	2																			
Oldsquaw	U	U	56																			
Northern Pintail	U	U	22	1												1						
Scaup	U	U		1											1							
Scoter	U	U	7																			
Ptarmigan	U	U	506	338			51	164	88			16		7	12				4	52	20	
Sandhill Crane	U	U	17	8											8							
Snowy Owl	U	U	1	2				2														

Sex = U - unknown, M - male, F - female Age = U - unknown, A - adult, J - juvenile, Y - young of year

completed

APPENDIX 46: Hunter survey record and the number of Sachs Harbour (N.W.T.) hunters harvesting Fish, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	47	54	54	54	54	54	54	54	53	53	52	52	52	51	50	51	49	49	49
	- harvested	47	4	11	16	23	27	13	11	10	13	24	30	18	8	16	5	25	15	6
	- did not hunt	0	41	34	29	22	21	37	38	40	37	24	17	33	42	34	46	23	33	35
	- did not interview	0	9	9	9	9	6	4	5	3	3	4	5	1	1	0	0	1	1	8
HUNTERS HARVESTING EACH SPECIES																				
	Arctic Charr																			
	-anadromous	35				1					1	8	15	3	2		1	2		
	-landlocked	7	1	1	1															
	Broad Whitefish	1																		
	Saffron Cod	8													1					
	Lake Trout	32		1	1						1	6	14	2		1		2		
	Burbot	1																		
	Northern Pike	2																		

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

APPENDIX 47: Hunter survey record and the number of Sachs Harbour (N.W.T.) hunters harvesting Marine Mammals, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	47	54	54	54	54	54	54	54	53	53	52	52	52	51	50	51	49	49	49
	- harvested	47	4	11	16	23	27	13	11	10	13	24	30	18	8	16	5	25	15	6
	- did not hunt	0	41	34	29	22	21	37	38	40	37	24	17	33	42	34	46	23	33	35
	- did not interview	0	9	9	9	9	6	4	5	3	3	4	5	1	1	0	0	1	1	8
HUNTERS HARVESTING EACH SPECIES																				
	Ringed Seal	21	4	6	8	1	1		2			2	1	6	3	10		2	2	
	Bearded Seal	17		2					1		1			2	1	2				
	Seal spp.											1								
	Walrus	3				1									2					

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

APPENDIX 48: Hunter survey record and the number of Sachs Harbour (N.W.T.) hunters harvesting Mammals, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	47	54	54	54	54	54	54	54	53	53	52	52	52	51	50	51	49	49	49
	- harvested	47	4	11	16	23	27	13	11	10	13	24	30	18	8	16	5	25	15	6
	- did not hunt	0	41	34	29	22	21	37	38	40	37	24	17	33	42	34	46	23	33	35
	- did not interview	0	9	9	9	9	6	4	5	3	3	4	5	1	1	0	0	1	1	8
HUNTERS HARVESTING EACH SPECIES																				
	Caribou	34		4	6	21	22	4	8	3	1	2			1	7	1	18	12	3
	Muskox	27		5	4	10	13	6	4	5	12	10	10	3	2	5	4	12	7	4
	Polar Bear	*				2	1				2	4	1							
	Wolf	1				2														
	Arctic Fox																			
	-white	13					10	5			1	1							1	1
	-blue	4					1	2												
	Red Fox																			
	-cross	1																		
	Hare spp.	27			1	6	10	3	1	3	3	5				1				1

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

* - no data were collected for July 1986 to June 1987

APPENDIX 49: Hunter survey record and the number of Sachs Harbour (N.W.T.) hunters harvesting Birds, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	47	54	54	54	54	54	54	54	53	53	52	52	52	51	50	51	49	49	49
	- harvested	47	4	11	16	23	27	13	11	10	13	24	30	18	8	16	5	25	15	6
	- did not hunt	0	41	34	29	22	21	37	38	40	37	24	17	33	42	34	46	23	33	35
	- did not interview	0	9	9	9	9	6	4	5	3	3	4	5	1	1	0	0	1	1	8
HUNTERS HARVESTING EACH SPECIES																				
	White-fronted Goose	2											1							
	Canada Goose	1											1							
	Snow Goose	41											24	9						
	Snow Goose (blue)	1																		
	Brant	22												3						
	Swan	4																		
	Arctic Loon	1																		
	Common Loon	1																		
	Yellow-billed Loon	4																		

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

continued

APPENDIX 49: Hunter survey record and the number of Sachs Harbour (N.W.T.) hunters harvesting Birds, for the period July 1986 to December 1988.

		JULY 1986 TO JUNE 1987	1987						1988											
			JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL HUNTER ACTIVITY	Hunter - population	47	54	54	54	54	54	54	54	53	53	52	52	52	51	50	51	49	49	49
	- harvested	47	4	11	16	23	27	13	11	10	13	24	30	18	8	16	5	25	15	6
	- did not hunt	0	41	34	29	22	21	37	38	40	37	24	17	33	42	34	46	23	33	35
	- did not interview	0	9	9	9	9	6	4	5	3	3	4	5	1	1	0	0	1	1	8
HUNTERS HARVESTING EACH SPECIES																				
	Eider	12			1								1	4						
	Green-winged Teal												1							
	Mallard	1																		
	Oldsquaw	9																		
	Northern Pintail	4												1						
	Scaup												1							
	Scoter	2																		
	Ptarmigan	30			2	11	5			2		2	3				1	4	1	
	Sandhill Crane	4											3							
	Snowy Owl	1				2														

Hunter - population = known population of hunters during the survey period. For July 1986 to June 1987 only, this represents the number of hunters interviewed.
- harvested = hunters that harvested during the survey period.
- did not hunt = hunters that did not hunt or hunted but had no catch during the survey period.
- did not interview = hunters that were not interviewed.

completed