



6.1.4 Community Results Discussion: Grise Fiord

The survey frame:

An assessment of under-enumeration during the community visit revealed that there were approximately 17 hunters who were not registered in the Harvest Study. Fourteen of these were Inuit - 12 occasional and two active hunters. It is estimated that there were three non-Inuit hunters with assigned hunting rights who were not registered – one occasional and two active hunters. As discussed in Section 5.2.1 the effect of this under-enumeration would have led to a downward bias of the harvest estimates. Given that these unregistered hunters represent 19 percent of the total hunter population (Table 10) the effect of this bias on harvest estimates could be significant. Harvest estimates for the unregistered hunters can be estimated using mean harvest quantities for each species by strata. However, these estimates, having their own sources of error and bias, are beyond the scope of this Final Report. Readers may apply to NWMB to obtain the results of these calculations.

Due to the relatively small number of intensive hunters registered in Grise Fiord, the intensive classification was joined with the active classification for the purpose of calculating harvest estimates.

The HTO Board felt that there were more than three intensive hunters in the community. Given that all the unregistered hunters identified were occasional or active hunters it is likely that some intensive hunters were misclassified rather than un-registered. The effect of this should be minimal since, as discussed above, we have joined the active and intensive classifications for the estimate calculations.

Survey coverage and non-response bias:

Response rates in year 1 of the study were quite low in some months in Grise Fiord, dropping below 50% in two of these months. As seen in Table 10 the consistent intentional non-response rate in Grise Fiord was low, at 1.4%, and was not thought to contribute to potential non-response bias.

Response rates were felt to be high enough and non-response bias low enough during years 2 to 5 to ensure that n did in fact constitute a sufficiently representative sample of N hunters. Readers should exercise caution when using the data collected during the first few months of year 1 since the potential for both sampling error and non-response bias increases as response rates fall.

Measurement issues and response error:

It was suggested during the community visit that hunters may not have reported all their harvest. Several reasons were given to explain this. Many hunters were difficult to contact since they were out hunting. Often several months would pass before they were reached for their interview, at which time they would need to estimate their catch since many had not written it down. Some hunters were told by the Fieldworker that they did not need to report the quota species they harvested, such as narwhal, polar bear and musk-ox, since this information could be obtained from other sources. This was a communication error between the Fieldworker and Headquarters which resulted in under-reporting of some quota species. Some hunters did not understand the purpose of the study and were reluctant to report their total catch for fear that it may result in harvesting limitations. Readers are urged to consider these issues and the comments below, collected during the community visit, when using the harvest estimates provided. Where appropriate and available other sources of harvest data have been provided to assist readers with this task.

As seen in the recall period tables, the majority of harvest records were collected within three months of the harvest. Exceptions to this were found only in selected months in years 3, 4 and 5 when longer recall periods (four to six months) were seen. As a result of the low recall periods in most months it would seem that measurement error due to recall failure would be minimal. However, given the comments noted above it appears that recall failure did in fact occur on some occasions and should be considered when assessing harvest estimates.

The community indicated that there was no commercial harvesting during the study.

Community feedback and other sources of data:

- ¹ **Caribou:** The caribou harvest consisted of Peary caribou only.
- ² **Musk-ox:** Harvest estimates seem low. Hunters were told by the Fieldworker that data would be collected from DSD so many did not report their musk-ox harvest (C.F.). DSD records indicate the following subsistence harvests during the course of the Harvest Study (DSD MXa):

Year 1	Year 2	Year 3	Year 4	Year 5
18	12	13	14	17

DSD records also indicated a total of 13 harvests (4 in year 1, 1 in year 2, 5 in year 4 and 3 in year 5) during the study period where the type of harvest was not recorded. These harvests may have been subsistence but were not included above since this could not be ascertained.

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- ³ **Polar bear:** Numbers displayed are not estimates but confirmed harvest numbers supplied by DSD (DSD PB).
- ⁴ **Wolf:** Harvest estimates seem too low. It is thought that some wolf harvests were not reported; wolves are harvested every year (C.F.).
- ⁵ **Arctic fox:** There was no reported harvest of arctic fox in year 4 but the HTO Board reports that some are harvested every year (C.F.).
- ⁶ **Arctic hare:** Arctic hare are abundant on Ellesmere Island and are harvested in larger numbers than shown by the harvest estimates. Hunters may not have thought to report some of the smaller species since they are not as significant to the hunter as the big game and marine mammal species (C.F.).
- ⁷ **Seals:** The harvest estimates show a decline in seal harvesting over the five year study period. The community reported that a drop in seal harvesting has occurred in the last four years since there have been fewer seals in the area to hunt. However, they feel that seal harvesting did not drop as significantly as the harvest estimates indicate (C.F.).
- ⁸ **Walrus:** Harvest estimates in years 2 to 5 seem too low. Year 1 estimates look to be more accurate (C.F.).
- ⁹ **Narwhal:** Harvest estimates seem too low (C.F.). The annual quota was 20 animals. DFO reports the following harvest numbers for narwhal (note that DFO data are based on fiscal years, whereas Harvest Study data are based on harvest years that run from June to May) (DFO N/B):
- | 96/97 | 97/98 | 98/99 | 99/00 | 00/01 |
|-------|-------|-------|-------|-------|
| 1 | 1 | 10 | 16 | 17 |
- ¹⁰ **Beluga:** Harvest estimates seem too low (C.F.). DFO reports the following harvest numbers for beluga (note that DFO data are based on fiscal years, whereas Harvest Study data are based on harvest years that run from June to May) (DFO N/B):
- | 96/97 | 97/98 | 98/99 | 99/00 | 00/01 |
|-------|-------|-------|-------|-------|
| 1 | 2 | 40 | 23 | 22 |
- ¹¹ **Canada goose:** Canada geese are only seen in small numbers around Grise Fiord. The harvest estimate of 38 in year 1 seems too high (C.F.). This harvest took place in June 1996 when response rates were below 50%. It is likely that the harvest estimate is too high due to a large degree of non-response bias. The reported harvest for this month was only 4 geese.
- ¹² **Eider duck:** Both king and common eider ducks are harvested around Grise Fiord. Harvest estimates seem a little low. Sometimes the hunters will estimate how many they harvested; most hunters would tend to under-estimate as opposed to over-estimate (C.F.).
- ¹³ **Arctic char:** It was suggested by the community members that the lower harvest estimates in some years may have been due to poor conditions on the trail to Kane basin (C.F.).
- ¹⁴ **Cod:** Cod are often harvested when they are washed ashore by large waves. Hundreds are harvested when this occurs. The community suspects that many of these fish were not reported (C.F.).
- ¹⁵ **Sculpin:** Harvest estimates seem too low. Many hunters were not aware they were to report this species (C.F.).
- ¹⁶ **Clams:** Clams are harvested every year. As with some of the other smaller species, hunters were often not aware they were to report or did not think to report these species (C.F.).

Egg harvesting was rarely reported by Grise Fiord hunters. The following eggs are gathered every year: seagull, king and common eider duck, brant goose, loon, black guillemot, thick-billed murre and old squaw (C.F.).



6.1.4 Nunani Iniktikhimayut Ukauhiit: Ausuituq

Ihivgiukhimayut iniktigutait:

Ihivgiufaahimayut ataani ihivgiukhimayuni nunani pulaaktakhimatitluni takupkakhimayut 17kuyut umayukhiuktit titigakhimaitut Umayukhiukhimayut ihivgiukhimatitlugu. 14kuyut Inuinait – 12kuyut ilaani umayukhiukpaktut ovalo malguuk umayukhiukataktut. Naunaiyakhimayuk pingahut inuinaungitut umayukhiuktit tuniyauhimayut umayukhiutinik inminiigutinik titigaktauhimaitut – atauhik ilaani umayukhiukpaktut ovalo malguk umayukhiukataktut. Ukahimayut ilangani 5.2.1 ikpinagutait hamna ataani ihivgiukhimayuk pilaaktut ataanut ihumagiyaini umayukhiukhimayut naunaiyautaini. Pihimamat hapkoa titigakhimaitut umayukhiuktit pihimamat 19%nik tamaat umayukhiuktunit (ikpatauyak 10) ikpinagutait hamna ihumagiyaini umayukhiukhimayut naunaiyautit angiyuuniaktuk. Umayukhiukhimayut naunaiyautait titigakhimaitut umayukhiuktit naunaiyakhimalaat atuklugit anginikhaat umayukhiukhimayut naunaiyautaini tamamik umayut aviktukhimayuni. Kihimi hapkoa naunaiyautit pihimamata inminik pihimayaini ihuinaakhimayuni ovalo ihumagiyaini avataaniimat atuktangit hamna Iniktigutini Tuhaktakhani. Taiguaktut apigilaat NWMBkunit piyumagumik iniktigutait hapkoa naunaiyakhimayut.

Pikamata mikiyunik amigaitjutaini umayukhiuginaktut titigakhimayut Ausuituqmi, umayukhiunginaktut naunaiyautait ilauhimayut umayukhiukataktunut naunaiyautainut atukhugit naunaiyauhimayut umayukhiukhimayut naunaiyautaini.

HTOkut katimayiit ihumayut amigaitkiyaumat pingahut umayukhiuginaktut nunami. Taimaimat tamamik titigaktauhimaitut umayukhiuktit naunaiyakhimayut ilaani umayukhiukpakatut ovaluniit umayukhiukataktut, piyunakhimayut ilangit umayukhiunginaktut ihuitumik naunaiyakhimayut pingithuni titigakhimaitunut. Ikpinagutait hamna mikiniaktuk, ukakhimapluni hamani, ilaukatigihimayavut umayukhiukataktut ovalo umayukhiunginaktut naunaiyautaini naunaiyautini ihuakhakhimayuni.

Ihivgiukhimayut pihimayut ovalo kiuyuitut ihumagiyait:

Kiuhimayut naunaiyautait ukiumi 1mi ihivgiukhimayuni mikiyut ilangini tatikhiutini Ausuituqmi, katakhiapluni ataanut 50%mut malguni hapkonanit tatikhiutinik. Takulaaktut ikpatauyami 10 pikaktut kiuyuitut naunaiyautait Ausuituqmi mikitkiyak 1.4%mik ovalo ihumagiyayuk pivakhuni pilaaktunik kiuyuitunut ihumagiyaini.

Kiuhimayut naunaiyautait ihumagiyayut angitkiyait ovalo kiuyuitut ihumagiyait mikitkiyat ukiumi 2mit 5mut piyaami nni pipkaihimayuk nakuuyumik pihimayuni naunaiyautaini Nni umayukhiuktini. Taiguaktut ihumayukhat atugumik katitikhimayunik hivulimi tatikhiutini ukiumi 1mi pilaamata tamamik naunaiyautait ihuinaakhimayut ovalo kiuyuitut ihumagiyait angiklilaamata kiuhimayut naunaiyautait katalikata.

Atugutingit ihumagiyait ovalo kiuhimayut ihuinaagutait:

Pitkuhimayuk nunanut pulaaktakhimatitlugit umayukhiuktit tuhakti-himaitunakhuyut tamamik umayukhimayaminik. Amigaivyaktut ihumagiyait ukautitiplugit hamna. Amigaitut umayukhiuktit ayonaktut takuyaami autlaakhimamata umayukhiukhutik. Ilaani amigaivyaktut tatikhiutit kaagikpaktut takuyautinagit ukakatigiyukhani, talvani piyukhat naunaiyalutit umayukhimayaminik titigakhimainamiuk. Ilangit umayukhiuktit ukautauhimayut nunani havaktinit tuhaktigitkalualugit kotaliit umayut umayukhiukhimayait , ilangit tugaaliit kilalugait, nanuit ovalo umingmait, hapkoa tuhagutikhait pilaamata aalanit pilaaktainit. Hamna tuhaktituiyit ihuinaakhimayut nunani havaktinit ovalo hivulimi havakvinit pipkaihimayuk ataani tuhaktituyakhani ilangit kotakaktut umayut. Ilangit umayukhiuktit naluvaktut hunayut ihivgiuktut ovalo tuhaktituyumangitut tamaat umayuktaminik ikhivlutik pilaanahugivlugu umayukhiukhimayut keelinikatiniaktut ukagumik. Taiguaktut pitkuhimayut ihumagilugit hapkoa ihumagiyayut ovalo ukakhimayut hamani, katitikhimayut nunanut pulaakhimaititlugit, atuliguni umayukhiukhimayut naunaiyautait tunihimayut. Pilaakat ovalo naamakpat, aalat atulaat umayukhiukhimayut katitikhimayut tunihimayut ikayugiagani taiguaktut hamani havakhimayuni.

Takuhimayut utiktihimayuni ubluit ikpatauyani, amigaktut umayukhiukhimayut titigagutait katitikhimayut iluani pingahut tatikhiutini umayukhiukhimayaini. Kihimi hamani nalvaakhimaut ilangini tatikhiutini ukiumi 3mi,4milu ovalo 5milu takitkiyat utiktihimayut ubluit (hitamani siksinitlu tatikhiutini) takuhimayut. Taimaimat mikiyut utiktihimayut ubluit amigaivyaktuni tatikhiutini piyunakhimayut atugutingit ihuinaakhimayut pigamik utiktihimayut pingitut mikiniaktuk. Kihimi, ukakhimamata titigakhimayut hamani piyunakhuyut utiktihimayut pingitut ilaa pihimayut ilaani ovalo ihumagiyayukhak ihivgiufoaligumik umayukhiukhimayut naunaiyautait.

Nunat ukakhimayut kinauyaliugutinik umayukhiukhimaitut ihivgiuktitlugit.



Nunanit ukakhimayut ovalo aalat pihimayaini katitikhimayuni:

- ¹ **Tuktut:** Tuktut umayukhiukhimayut Kananamit kikiktani tukut talvatuak.
- ² **Umingmait:** Umayukhiukhimayut mikiyut. Umayukhiuktut ukautauhimayut nunani havaktinit katitikhimayut katitikaun-aktut DSDkunit, taimaimat amigaitut tuhaktitingit ut umingmait umayukhimayainik (C.F.). DSDnit titigakhimayut naunaiyakhi-mayut hapkoa atuktakhait umayukhiukhimayut Umayukhiukhimayut Ihivgiuktutlugit (DSD Mxa):

Year 1	Year 2	Year 3	Year 4	Year 5
18	12	13	14	17

DSDkuni titigakhimayut pihimayut tamaat 13kuyut umayukhiukhimayut (hitamat ukiumi 1mi, atauhik ukiumi 2mi, talimat ukiumi 4mi ovalo pingahut ukiumi 5mi) ihivgiukhi-matitlugit pihimagalumat kanugit ut umayukhiukhimayut titi-gakhimaimat. Hapkoa umayukhiukhimayut piyunakhuyut atuk-takhainik umayut kihimi ilaungit ut hamani ilaa hamna nalu-naiyakhimaimata.
- ³ **Nanuit:** Amigaitjutait takuhimayut naunaiyautangit ut kihimi pihimayut umayukhiukhimayut amigaitjutait tunihimayut DSDkunit (DSD PB)
- ⁴ **Amagut:** Umayukhiukhimayut naunaiyautait mikiyut. Ihumagiyut ilangit amagut umayukhimayut tuhaktitihimait ut; amagut umayukhiukatakut ut ukiuk tamaat (C.F.).
- ⁵ **Tigiganiat:** Tuhaktitikingit ut umayukhiukhimayut tigiganiat ukiumi 4mi kihimi HTOKut katimayit ut tuhaktitihimayut ilangit umayukhiukhimayut ukiuk tamaat (C.F.).
- ⁶ **Ukaliit:** Ukaliit amigaitut Ellesmeremi kikiktani ovalo umayukhiukpaktait amigaitut takukhuyunit umayukhiukhi-mayut naunaiyautainit. Umayukhiuktut ihumagihimaitait tuhaktitilugit mikiyut umayut ilaa, angiyumat umayukhiuktin-ut angiyut umayut ovalo tagiuni umayut (C.F.).
- ⁷ **Natiit:** Umayukhiukhimayut naunaiyautait takuhimayut ikililiktut natiit umayukhiukhimayut talimani ukiumi ihivgiuk-tut atuktaini. Nunat tuhaktitihimayut katakhimayut natinik umayukhiukhimayuni piliktut hitamani ukiumi ikililmata nati-it umayukhiukviani. Kihimi ihumayut natiit umayukhiugutit katangit ut akhut umayukhiukhimayut naunaiyautaini ukakhi-mayaini (C.F.).
- ⁸ **Akviit:** Umayukhiukhimayut naunaiyautait ukiumi 2mit 5mut mikiyut. Ukiumi 1mi naunaiyautait naamaktut (C.F.).

- ⁹ **Tuugaat:** Umayukhiukhimayut naunaiyautait mikiyut (C.F.) Ukiuk tamaat kotangit 20kuyut umayut. DFOkut tuhaktitihimayut hapkoa umayukhiukhimayut amigaitjutait tugaaliit kilalugat (nalungilutit DFOkut katitikhimayut atukhimayut iniktigutaini ukiut, Umayukhiukhimayut Ihivgiugutait kati-tikhimayut pihimavanmat umayukhiukhimayut ukiungit Junemit Maymut (DFO N/B):

96/97	97/98	98/99	99/00	00/01
1	1	10	16	17

- ¹⁰ **Kilalugait:** Umayukhiukhimayut naunaiyautait mikiyut (C.F.). DFOkut tuhaktakhait hapkoa umayukhiukhimayut amigaitjutait kilalugait (nalungukytut DFOkut katitikhimayut atukhimayut iniktigutaini ukiut, Umayukhiukhimayut Ihivgiugutait Ktitikhimayut pihimavanmata umayukhiukhimayut ukiungit Junemit Maymut (DFO N/B):

96/97	97/98	98/99	99/00	00/01
1	2	40	23	22

- ¹¹ **Uluaguliit:** Uluaguliit takuyavuktut ikitumik amigaitjutaini haniani Ausguituq. Umayukhiukhimayut naunaiyautait 38kuyut ukiumi 1mi angiyut (C.F.). Hamna umayukhimayut pihimayut Junemi 1986 kiuyavuktut naunaiyautait ataaniit-lugu 50% mik. Piyunakhigami umayukhiukhimayut nau-naiyautait angiyut amigaituumata kiuyuit ut ihumagiyainit. Tuhaktakhak umayukhiukhimayuni hamani tatkihiutini talvatuak hitamauyut uluaguliit.
- ¹² **Tingmiat:** Tamamik kingaliit ovalo mitiit umayukhiukhimavak-tut haniani Ausuituq. Umayukhiukhimayut naunaiyautait mikiyut. Ilaani umayukhiuktut naunaiyakhimavaktut kafinik umayukhiukhimayainik; amigaitut umayukhiuktut pivaktut ataanut naunaiyakhutik mikhaanit kaaganut nau-naiyakhimagutainit (C.F.).
- ¹³ **Ikaliivait:** Ukakhimayut nunanit ilaayunit mikinikhaaguyut umayukhiukhimayut naunaiyautaini ilangit ukiumi nakuulu-angimat apkotit kane Basinmut (C.F.).
- ¹⁴ **Ugat:** Ugat umayukhiukpaktait hinaanugaagata malikyuanit. Amigaitpiaktut umayukhiukpaktait pigaagata hamna. Nunani ihumayut amigaitut hapkoa ugat tuhaktitiyauyuit (C.F.).
- ¹⁵ **Kanayuit:** Umayukhimayut naunaiyautait mikiyut. Amigaitut umayukhiuktut naluyut tuhaktitiyakhait hapkoa umayut (C.F.).
- ¹⁶ **Uviluit:** Uviluit umayukhiukpaktut tamaat ukiut. Aatjikutaatut aalat mikiyut umayut, umayukhiuktut naluvaktut tuhaktitiyaani ovaluniit ihumagilugit tuhaktitiyukhat hapkoa umayut (C.F.).

Pikiutaktut maninik ukayuitait umayukhiuktut Ausuituqmiunit. Hapkoa maniiit pikiutaktauvaktut ukiuk tamaat; Nauyat, Kingaliit ovalo mitiit, brant ovalo uluaguliit, maligiit, Black guillemot, thick billed murre ovalo aahangiit (C.F.).