



Arctic Borderlands Ecological Knowledge Co-op **Aklavik Gwich'in**  
2005-2006 Community Ecosystem Monitoring—Questions

|                             |   |  |
|-----------------------------|---|--|
| <b>Interview ID number:</b> | <b>Interviewer's name:</b>  | <input type="checkbox"/> Individual<br><input type="checkbox"/> Couple |
| <b>Date of Interview</b>    | <b>Sub-sections completed in this interview:</b><br><input type="checkbox"/> Fish <input type="checkbox"/> Berries <input type="checkbox"/> Caribou |  |

- Read the consent form or talk about each point in your own words.
- Ask if the person is willing to be interviewed. If they say no, then stop. If they have questions, explain further.
- Have the person sign and date the consent form. They keep one copy, and you keep one copy.
- Make sure that you have put the Interview ID number on the consent form and on this page.

## [A-1] Opening Questions

➤ First, I'd like to ask a couple of questions about you.

### [A-1-1] TIME ON LAND

➤ I'd like you to think back to how much time you've spent out on the land this past year, from April until the end of December. Did you ...

- only take day trips from town,
- take day trips with occasional overnights,
- were you on the land for a week or more at a time, or
- did you spend more than half of your time out of town on the land?

*[Check the one that fits the best, then write any notes or comments here]*

### [A-1-2] AREA FOR 2004

➤ Use the map to circle the area and mark the routes where you traveled on the land for subsistence activities from April until the end of December.

*[Label this "2004" on the map]*

*[Do not ask the next 2 questions if the person was interviewed last year or the year before]*

### [A-1-3] AREA FOR LIFETIME

➤ Use the map to draw a line around the area where you have traveled on the land for subsistence activities in your lifetime.

*[Label this "Lifetime" on the map]*

### [A-1-4] AGE

➤ What year were you born? \_\_\_\_\_

*[If this is a couple, put the year of the oldest person]*

## [A-2] Weather

### [A-2-1] SUMMER WEATHER

➤ Please describe what the weather was like this past summer

*[The comments can be either about summer in general or month by month, as long as it is clear]*

June

July

August

*[Go through this list with them only if necessary to prompt them for specifics. Don't go through the lists with someone who has already provided this – CHECK THE BOXES YOURSELF – note that if it is an average season, none of these boxes would be checked.]*

➤ Which of these conditions describe the weather this past summer?

*[if a description applies to one month, write the month beside it]*

- Drier than most years
- Wetter than most years
  
- Warmer than most years
- Colder than most years
- Unusually windy
- Unusually calm
  
- More storms than most years
- Fewer storms than most year

**[A-2-2] FALL WEATHER AND SNOW**

- Please describe what the weather and the snow was like this fall  
*[The comments can be either about fall in general or month by month, as long as it is clear]*

September

October

November

*[Go through this list with them only if necessary to prompt them for specifics. Don't go through the lists with someone who has already provided this – CHECK THE BOXES YOURSELF]*

- Which of these conditions describe the weather and snow this fall?  
*[if a description applies to one month, write the month beside it]*

- Drier than most years
- Wetter than most years
  
- Warmer than most years
- Colder than most years
  
- Unusually windy
- Unusually calm
  
- More storms than most years
- Fewer storms than most years

**(SNOW)**

- No snow
- Very little snow
- About average amount of snow
- Lots of snow
  
- Very icy

**[A-2-3] WINTER WEATHER AND SNOW**

➤ Please describe what the weather and snow has been like this winter.

*[The comments can be either about winter in general or month by month, as long as it is clear]*

December

January

*[Go through this list with them only if necessary to prompt them for specifics. Don't go through the lists with someone who has already provided this – CHECK THE BOXES YOURSELF]*

➤ Check any of these conditions describe the weather and snow this winter?

*[if a description applies to one month, write the month beside it]*

Drier than most years

Wetter than most years

Warmer than most years

Colder than most years

Unusually windy

Unusually calm

More storms than most years

Fewer storms than most years

**(SNOW)**

No snow

Very little snow

About average amount of snow

Lots of snow

Very icy

**[A-2-4] FREEZE-UP AND OVERFLOW**

- Where were you during freeze-up this year?
- in town
  - out on the land

- How was the freeze-up of the lakes?

*[Either check these boxes yourself based on what they have told you, or ask them]*

**TIMING**

- earlier than in most other years,
- later than in most other years,
- or similar to most years?

**HOW IT FROZE UP**

- quick freeze-up,
- a slow freeze-up,
- or just an average year?

- How was the freeze-up of the rivers?

*[Either check these boxes yourself based on what they have told you, or ask them]*

**TIMING**

- earlier than in most other years,
- later than in most other years,
- or similar to most years?

**HOW IT FROZE UP**

- quick freeze-up,
- a slow freeze-up,
- or just an average year?

- How has the overflow been this year?

*[Either check these boxes yourself based on what they have told you, or ask them]*

- lots of overflow
- not much overflow
- or an average amount of overflow

**[A-2-5] PROBLEMS FROM WEATHER**

➤ Have the weather conditions this year created any problems for you getting out on the land?

no problems

*[if no problems go to next page]*

made it hard

made it easy



➤ In what way?

➤ How have problems getting out on the land affected your day-to-day life?

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**[A-3] General Question About Change**

*[This question is where people have a chance to talk more generally about the most important things they observed on the land and in the community. This can be taped or not – if they don't want to use the tape recorder, write down as much as you can in their own words. Whether or not you use the tape recorder, do not skip this question – it is the most important one. ]*

➤ I would like to tape-record the next question. The tapes are just to help us take good notes. We will not play these tapes to anyone else without your permission.

➤ You can answer this question in your native language if you want.

*[For people who you think might be more comfortable speaking in their native language:]*

Taped

Written

If taped: make sure to tell the person you are turning the recorder on, then say into the recorder:

➤ This is interview number \_\_\_\_\_ for Aklavik, and the date is \_\_\_\_\_

➤ Please tell me about the changes you are seeing and how it is affecting your way of life.

Written answers go here and back of page

Further prompts you can use to help get started:

- Tell me about one or two things that you noticed when you were out on the land—things that you are noticing about the land, plants and animals.
- We are also interested in how these changes affected your life this year.

**Things to check for when taping**

**The Machine**

- “AVR” should be turned OFF
- Tape speed set to “normal”
- When the tape is recording, the red light shows the battery level – if it is getting dull, change the battery

**Background Noise**

- see if you can reduce it (such as turn the TV off, close a door)
- use your microphone if you think that the background noise is too loud

**The Tapes:**

- Use one side of one tape per person – this is 30 minutes
- Write the community name and the interview number on the tape

*[When they are done, thank them and click off the tape recorder and remove it from the table]*

## [A-4] Human Activities

➤ I'm going to read a list of human activities. I'd like you to tell me if each activity has been increasing or decreasing recently in this area. Please also give me your view as to how this activity is affecting the land or the animals, or hunting, fishing and trapping.

### [A-4-1] ACTIVITIES TABLE

*[If you mark a map ref # on the map, put a check mark below it in this table. If there is more than one map reference for a type of activity, use; -- . HA#1a, HA#1b. If it is easier, write the location instead]*

| Activity                                    | Location                          | Change  | Effects on land, animals or on hunting, fishing and trapping |
|---|-----------------------------------|---|--|
| Airplane and helicopter traffic             | HA #1<br><input type="checkbox"/> | <input type="checkbox"/> Increasing <input type="checkbox"/> No change<br><input type="checkbox"/> Decreasing <input type="checkbox"/> Don't know |  |
| Snowmobile use                              | HA #2<br><input type="checkbox"/> | <input type="checkbox"/> Increasing <input type="checkbox"/> No change<br><input type="checkbox"/> Decreasing <input type="checkbox"/> Don't know |  |
| ATVs/four-wheelers                          | HA #3<br><input type="checkbox"/> | <input type="checkbox"/> Increasing <input type="checkbox"/> No change<br><input type="checkbox"/> Decreasing <input type="checkbox"/> Don't know |  |
| Sport hunting                               | HA #4<br><input type="checkbox"/> | <input type="checkbox"/> Increasing <input type="checkbox"/> No change<br><input type="checkbox"/> Decreasing <input type="checkbox"/> Don't know |  |
| Hunting for food by local people            | HA #5<br><input type="checkbox"/> | <input type="checkbox"/> Increasing <input type="checkbox"/> No change<br><input type="checkbox"/> Decreasing <input type="checkbox"/> Don't know |  |
| Tourism                                     | HA #6<br><input type="checkbox"/> | <input type="checkbox"/> Increasing <input type="checkbox"/> No change<br><input type="checkbox"/> Decreasing <input type="checkbox"/> Don't know |  |
| Gas & oil drilling or exploration           | HA #7<br><input type="checkbox"/> | <input type="checkbox"/> Increasing <input type="checkbox"/> No change<br><input type="checkbox"/> Decreasing <input type="checkbox"/> Don't know |  |
| Research by scientists on the land or water | HA #8<br><input type="checkbox"/> | <input type="checkbox"/> Increasing <input type="checkbox"/> No change<br><input type="checkbox"/> Decreasing <input type="checkbox"/> Don't know |  |
| Other[Ask for specifics]                    | HA #9<br><input type="checkbox"/> | <input type="checkbox"/> Increasing <input type="checkbox"/> No change<br><input type="checkbox"/> Decreasing <input type="checkbox"/> Don't know |  |

**[A-4-2] CUMULATIVE EFFECTS**

➤ Separately, some of these activities do not affect the land very much. But when all of these activities are put together, do you think they are having an effect now on the environment, the animals, or on hunting, fishing and trapping?

Yes

No

Don't know



In what ways?

# [B] Berries

## [B-1] General Berry Questions

### [B-1-1] BERRY-PICKING

➤ Did you go berry-picking this past year?

Yes

No

➤ Do you usually go berry-picking?

Yes

No

*[Do not ask any more questions about berries. Go to FISH SECTION]*

[Write any comments here, then  
go to the FISH SECTION]

➤ What was the main reason for you not going berry picking this year?

- Berry crop was too poor
- Other reasons

### [B-1-2] WHICH BERRIES

➤ Which berries did you pick this year?

Salmonberries

(also called Akpik, Knuckleberries, Yellowberries, Cloudberrries)

Cranberries

Blueberries

Other

➤ What type of berry?

### [B-1-3] MEETING NEEDS FOR BERRIES

➤ Did you get enough berries this year to meet your needs?

Yes

No

***[Now go to the pages for the berries that the person picked this year]***

## **[B-2] Salmonberries (Akpik, Knuckleberries, Yellowberries, Cloudberrries)**

*[Use the name that is used by your community]*

### **[B-2-1] YEAR SUMMARY**

➤ What kind of a year was it for salmonberries?

➤ Overall, was it an:

- exceptionally good year
- good year for salmonberries
- not that good, or a
- really bad year for salmonberries

*[If they don't make comments on how the weather affected the berries, prompt them by asking:]*

➤ How did the weather affect the salmonberries this year?

*[Either check one of these boxes yourself, based on what they said, or go through the list with them – make sure that one is checked]*

- lots
- usual number
- few or not many
- none

### **[B-2-2] BERRY QUALITY**

➤ How was the quality of salmonberries this year? *[Check **all** those that apply]*

- sweet
- juicy
- mushy
- cooked
- dry
- poor flavour
- other *[describe below]*

## [B-2] Cranberries

### [B-2-1] YEAR SUMMARY

➤ What kind of a year was it for cranberries?

➤ Overall, was it an:

- exceptionally good year
- good year for cranberries
- not that good, or a
- really bad year for cranberries

*[If they don't make comments on how the weather affected the berries, prompt them by asking:]*

➤ How did the weather affect the cranberries this year?

*[Either check one of these boxes yourself, based on what they said, or go through the list with them – make sure that one is checked]*

- lots
- usual number
- few or not many
- none

### [B-2-2] BERRY QUALITY

➤ How was the quality of cranberries this year? *[Check **all** those that apply]*

- sweet
- juicy
- mushy
- cooked
- dry
- poor flavour
- other *[describe below]*

**[B-2] Blueberries or other Berry Type:** \_\_\_\_\_

*[make sure to write down which berry type they are talking about]*

**[B-2-1] YEAR SUMMARY**

➤ What kind of a year was it for \_\_\_\_\_ berries?

➤ Overall, was it an:

- exceptionally good year
- good year for \_\_\_\_\_ berries
- not that good, or a
- really bad year for \_\_\_\_\_ berries

*[If they don't make comments on how the weather affected the berries, prompt them by asking:]*

➤ How did the weather affect the \_\_\_\_\_ berries this year?

*[Either check one of these boxes yourself, based on what they said, or go through the list with them – make sure that one is checked]*

- lots
- usual number
- few or not many
- none

**[B-2-2] BERRY QUALITY**

➤ How was the quality of \_\_\_\_\_ berries this year? *[Check **all** those that apply]*

- sweet
- juicy
- mushy
- cooked
- dry
- poor flavour
- other *[describe below]*

# [C] Fish

## [C-1] General Fish Questions

### [C-1-1] FISHING

➤ Did you go fishing this past year?

Yes

No

➤ Do you usually go fishing?

Yes

No

**[Do not ask any more questions about fish. Go on to CARIBOU SECTION]**

➤ What was the main reason that you didn't go fishing this year?

**[Write answer here, then go on to the CARIBOU SECTION]**

### [C-1-2] MEETING NEEDS

➤ Overall, did you meet your needs for fish this year?

Yes

No

➤ Was it because there weren't enough fish?

*[If they give another reason, write it here]*

### [C-1-3] FISH SPECIES

➤ What did you fish for this year?

➤ What did you also catch?

|                               | Fished For               | Also Caught              | <i>[If more space needed for additional fish species, write in here]</i> |
|-------------------------------|--------------------------|--------------------------|--|
| Whitefish (broad whitefish)   | <input type="checkbox"/> | <input type="checkbox"/> |  |
| Crooked Back (lake whitefish) | <input type="checkbox"/> | <input type="checkbox"/> |  |
| Herring (cisco)               | <input type="checkbox"/> | <input type="checkbox"/> |  |
| Coney (inconnu)               | <input type="checkbox"/> | <input type="checkbox"/> |  |
| Arctic Charr                  | <input type="checkbox"/> | <input type="checkbox"/> |  |
| Grayling                      | <input type="checkbox"/> | <input type="checkbox"/> |  |
| Loche (burbot)                | <input type="checkbox"/> | <input type="checkbox"/> |  |
| Jackfish                      | <input type="checkbox"/> | <input type="checkbox"/> |  |
| Lake Trout                    | <input type="checkbox"/> | <input type="checkbox"/> |  |
| Salmon (what type?)           | <input type="checkbox"/> | <input type="checkbox"/> |  |
|                               | <input type="checkbox"/> | <input type="checkbox"/> |  |
|                               | <input type="checkbox"/> | <input type="checkbox"/> |  |

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**[C-2-2] SALMON IN MACKENZIE SYSTEM**

➤ Did you catch any salmon in our area in the past year?

No (*if no, go to next section*)

Yes (*If yes, ask*)



➤ Do you know what kind of they were?

**Dog salmon** (Chum)       **King salmon** (Chinook)

**Silver salmon** (Coho)       **Red salmon** (Sockeye)

➤ In what areas were they caught?

*[write location or note on map – SALM]*

➤ In what condition were the salmon in when you caught them?

➤ Were they silvery?  Yes  No

➤ Was the flesh firm and good to eat?  Yes  No

➤ What do you think is causing salmon to start coming into our area?

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**[C-2-3] LOCHE LIVERS ---- [ASK THIS QUESTION OF PEOPLE WHO FISHED FOR OR CAUGHT LOCHE]**

➤ Did you see any unusual loche livers this year?  Yes  No

*[Descriptions of livers and notes go here]*



*[Move on to next section]*

➤ About how many had livers that were unusual? \_\_\_\_\_

➤ About how many loche did you catch this year? \_\_\_\_\_

➤ Where did you catch the loche with unusual livers?

*[describe location or mark on map as LL]*

### [C-3] Questions on the Fish that were "Fished For"

➤ Now I would like to ask you some more detailed questions about the fish that you fished for this past year.

*[Use the Fish Species Table on the long sheet to make sure that you ask each question about each of the fish species that the person fished for. There are boxes for 5 fish species for each topic – use the back of each sheet if there are more species, or you need more room for notes.]*

#### [C-3-1] FISHING LOCATION

➤ Where did you do most of your fishing this past year?  
*[general area, not exact location – **make sure to write in the fish names**]*

|             |
|-------------|
| Fish: _____ |
| Location:   |

|             |
|-------------|
| Fish: _____ |
| Location:   |

|             |
|-------------|
| Fish: _____ |
| Location:   |

|             |
|-------------|
| Fish: _____ |
| Location:   |

|             |
|-------------|
| Fish: _____ |
| Location:   |

➤ Tell me about the numbers of each of the types of fish you fished for this year.  
[Use the check boxes and write in comments]

|   |
|---|
| Fish: _____<br>Numbers:<br><input type="checkbox"/> lots,<br><input type="checkbox"/> some,<br><input type="checkbox"/> few, or<br><input type="checkbox"/> none. |
| Fish: _____<br>Numbers:<br><input type="checkbox"/> lots,<br><input type="checkbox"/> some,<br><input type="checkbox"/> few, or<br><input type="checkbox"/> none. |
| Fish: _____<br>Numbers:<br><input type="checkbox"/> lots,<br><input type="checkbox"/> some,<br><input type="checkbox"/> few, or<br><input type="checkbox"/> none. |
| Fish: _____<br>Numbers:<br><input type="checkbox"/> lots,<br><input type="checkbox"/> some,<br><input type="checkbox"/> few, or<br><input type="checkbox"/> none. |
| Fish: _____<br>Numbers:<br><input type="checkbox"/> lots,<br><input type="checkbox"/> some,<br><input type="checkbox"/> few, or<br><input type="checkbox"/> none. |

**[C-3-3] FISH TIMING**

➤ Tell me about the timing of the run for each of the types of fish you fished for this year.  
[Use the check boxes and write in comments]

|  |
|--|
| <p>Fish: _____</p> <p><input type="checkbox"/> early,<br/><input type="checkbox"/> normal, or<br/><input type="checkbox"/> late?</p> <p>➤ <u>When</u> was the main part of the run this past year?</p> |
| <p>Fish: _____</p> <p><input type="checkbox"/> early,<br/><input type="checkbox"/> normal, or<br/><input type="checkbox"/> late?</p> <p>➤ <u>When</u> was the main part of the run this past year?</p> |
| <p>Fish: _____</p> <p><input type="checkbox"/> early,<br/><input type="checkbox"/> normal, or<br/><input type="checkbox"/> late?</p> <p>➤ <u>When</u> was the main part of the run this past year?</p> |
| <p>Fish: _____</p> <p><input type="checkbox"/> early,<br/><input type="checkbox"/> normal, or<br/><input type="checkbox"/> late?</p> <p>➤ <u>When</u> was the main part of the run this past year?</p> |
| <p>Fish: _____</p> <p><input type="checkbox"/> early,<br/><input type="checkbox"/> normal, or<br/><input type="checkbox"/> late?</p> <p>➤ <u>When</u> was the main part of the run this past year?</p> |

➤ Tell me about the size of each of the types of fish you fished for this year.  
[Use the check boxes and write in comments]

|   |
|---|
| Fish: _____<br>Size: _____<br><input type="checkbox"/> larger than usual,<br><input type="checkbox"/> average, or<br><input type="checkbox"/> smaller than usual? |
| Fish: _____<br>Size: _____<br><input type="checkbox"/> larger than usual,<br><input type="checkbox"/> average, or<br><input type="checkbox"/> smaller than usual? |
| Fish: _____<br>Size: _____<br><input type="checkbox"/> larger than usual,<br><input type="checkbox"/> average, or<br><input type="checkbox"/> smaller than usual? |
| Fish: _____<br>Size: _____<br><input type="checkbox"/> larger than usual,<br><input type="checkbox"/> average, or<br><input type="checkbox"/> smaller than usual? |
| Fish: _____<br>Size: _____<br><input type="checkbox"/> larger than usual,<br><input type="checkbox"/> average, or<br><input type="checkbox"/> smaller than usual? |

➤ Tell me about the quality of each of the types of fish you fished for this year.  
[Use the check boxes and write in comments]

|   |
|---|
| <p>Fish: _____<br/>Was it:</p> <ul style="list-style-type: none"><li><input type="checkbox"/> mushier than usual,</li><li><input type="checkbox"/> about as usual, or</li><li><input type="checkbox"/> firmer than usual?</li></ul> <p>➤ Any other comments on the quality?</p> |
| <p>Fish: _____<br/>Was it:</p> <ul style="list-style-type: none"><li><input type="checkbox"/> mushier than usual,</li><li><input type="checkbox"/> about as usual, or</li><li><input type="checkbox"/> firmer than usual?</li></ul> <p>➤ Any other comments on the quality?</p> |
| <p>Fish: _____<br/>Was it:</p> <ul style="list-style-type: none"><li><input type="checkbox"/> mushier than usual,</li><li><input type="checkbox"/> about as usual, or</li><li><input type="checkbox"/> firmer than usual?</li></ul> <p>➤ Any other comments on the quality?</p> |
| <p>Fish: _____<br/>Was it:</p> <ul style="list-style-type: none"><li><input type="checkbox"/> mushier than usual,</li><li><input type="checkbox"/> about as usual, or</li><li><input type="checkbox"/> firmer than usual?</li></ul> <p>➤ Any other comments on the quality?</p> |
| <p>Fish: _____<br/>Was it:</p> <ul style="list-style-type: none"><li><input type="checkbox"/> mushier than usual,</li><li><input type="checkbox"/> about as usual, or</li><li><input type="checkbox"/> firmer than usual?</li></ul> <p>➤ Any other comments on the quality?</p> |

**[C-3-6] FISH PARASITES**

➤ Tell me about any parasites you noticed for each of the types of fish you fished for this year.  
[Use the check boxes and write in comments]

|   |
|---|
| <p>Fish: _____</p> <p>Parasites: <input type="checkbox"/> lots,<br/><input type="checkbox"/> some, or<br/><input type="checkbox"/> none?</p> <p><i>[Ask this question if they saw parasites]</i></p> <p>➤ What did the parasites look like?</p> |
| <p>Fish: _____</p> <p>Parasites: <input type="checkbox"/> lots,<br/><input type="checkbox"/> some, or<br/><input type="checkbox"/> none?</p> <p><i>[Ask this question if they saw parasites]</i></p> <p>➤ What did the parasites look like?</p> |
| <p>Fish: _____</p> <p>Parasites: <input type="checkbox"/> lots,<br/><input type="checkbox"/> some, or<br/><input type="checkbox"/> none?</p> <p><i>[Ask this question if they saw parasites]</i></p> <p>➤ What did the parasites look like?</p> |
| <p>Fish: _____</p> <p>Parasites: <input type="checkbox"/> lots,<br/><input type="checkbox"/> some, or<br/><input type="checkbox"/> none?</p> <p><i>[Ask this question if they saw parasites]</i></p> <p>➤ What did the parasites look like?</p> |
| <p>Fish: _____</p> <p>Parasites: <input type="checkbox"/> lots,<br/><input type="checkbox"/> some, or<br/><input type="checkbox"/> none?</p> <p><i>[Ask this question if they saw parasites]</i></p> <p>➤ What did the parasites look like?</p> |

*[Make sure that you write down what fish they are talking about]*

➤ Have you any general comments about health, condition, and number of any of the fish that you fished for?

➤ Was there anything unusual about this year's fishing for any type of fish?

## [D] Caribou / Vutzui / Tuktu

➤ Now I'd like to ask you questions about Porcupine Caribou, season by season.

### [D-1] Last Spring's Caribou Migration and Caribou Hunt (April 1 - June 30)

#### [D-1-1] AVAILABILITY TO COMMUNITY-SPRING

➤ How available were caribou to this community for hunting last spring?

- Close by and easily found       Not close, required lots of effort to get them
- Not at all available
- ↓
- If it was difficult for people in the community to get caribou, what made it hard?

#### [D-1-2] HUNTING-SPRING

➤ Did you go caribou hunting or see any caribou last spring?

Yes

No

↓

➤ When there are caribou available, do you usually hunt for caribou in the spring?

Yes

No

↓

**[Do not ask any more questions in this section. Go to PAGE 4]**

↓

➤ What was the main reason that you didn't go caribou hunting last spring?

Caribou were too far away to try hunting them.

Weather or snow conditions were too bad for hunting.

Other reasons

↓

➤ Describe these conditions

**[Do not ask any more questions in this section. Go to PAGE 4]**

#### [D-1-3] MEETING NEEDS-SPRING

➤ Did you get enough caribou last spring to meet your needs?

Yes     No

#### [D-1-4] SPRING MIGRATION

➤ Describe the migration of caribou last spring.

**[D-1-5] SPRING MIGRATION TABLE**

➤ Show me on the map where you saw caribou last spring.

*[Label the map with a reference number from the chart and ask all the questions in the row for that reference number on the chart. If an observation is for a location not on the map, or is not related to one location, use the last row.]*

| Ref # on map      | Date seen | Moving? (yes or no; if yes, direction moving) | Number seen  | Group composition   | Type of land (ridge tops, valley bottoms, boulder fields, shorelines, frozen lakes, water crossings, other?) | Were the caribou feeding?   | General comments about conditions observed |
|-------------------|-----------|---|--|---|--|---|--|
| <b>SM-#1</b>      |           |   | <input type="checkbox"/> Just a few caribou<br><input type="checkbox"/> Lots (50 to 100)<br><input type="checkbox"/> LOTS (100- 500)<br><input type="checkbox"/> REALLY LOTS (more than 500) | <input type="checkbox"/> Bulls<br><input type="checkbox"/> Cows<br><input type="checkbox"/> Cows w/ calves<br><input type="checkbox"/> Mixed groups |  | <input type="checkbox"/> Feeding<br><input type="checkbox"/> Not feeding<br><input type="checkbox"/> Don't know |  |
| <b>SM #-2</b>     |           |   | <input type="checkbox"/> Just a few caribou<br><input type="checkbox"/> Lots (50 to 100)<br><input type="checkbox"/> LOTS (100- 500)<br><input type="checkbox"/> REALLY LOTS (more than 500) | <input type="checkbox"/> Bulls<br><input type="checkbox"/> Cows<br><input type="checkbox"/> Cows w/ calves<br><input type="checkbox"/> Mixed groups |  | <input type="checkbox"/> Feeding<br><input type="checkbox"/> Not feeding<br><input type="checkbox"/> Don't know |  |
| <b>SM #-3</b>     |           |   | <input type="checkbox"/> Just a few caribou<br><input type="checkbox"/> Lots (50 to 100)<br><input type="checkbox"/> LOTS (100- 500)<br><input type="checkbox"/> REALLY LOTS (more than 500) | <input type="checkbox"/> Bulls<br><input type="checkbox"/> Cows<br><input type="checkbox"/> Cows w/ calves<br><input type="checkbox"/> Mixed groups |  | <input type="checkbox"/> Feeding<br><input type="checkbox"/> Not feeding<br><input type="checkbox"/> Don't know |  |
| <b>NOT ON MAP</b> |           |   |  |   |  |   |  |

**[D-1-6] SPRING SNOW AND CARIBOU**

➤ Would you describe the snow last spring as?

- Sugar snow    Hard, icy snow    Other (describe)

➤ Did the snow last spring make it easy or hard for the caribou to travel?

- Easy    Hard

➤ In what way?

➤ Did the snow this spring make it easy or hard for the caribou to dig in the snow and feed?

- Easy    Hard

**[D-1-7] SPRING BODY CONDITION**

➤ Compared to other spring seasons, were the caribou last spring:

- in good shape (had lots of rump fat)?  
 in fair condition (some back fat, but less than one inch)?  
 in poor/skinny shape (little or no rump fat or gut fat)?  
 or was there a mix of some fat caribou and some skinny caribou?  
 don't know

➤ Was there anything unusual to report about these animals' body condition this past spring?

- No    Yes *[if yes, ask]*   →   ➤ Please explain.

**[D-2] Calving (last June)**

**[D-2-1] CALVING LOCATIONS**

➤ Did you see any caribou with new calves last June?

Yes       No → ***[Go on to the next page, Fall Caribou]***



➤ Show me on the map where you saw caribou with new calves last June

*[Label the map with a reference number from the chart and ask all the questions in the row for that reference number on the chart. If an observation is for a location not on the map, or is not related to one location, use the last row.]*

| Ref # on map | Date seen | Numbers of cows with calves? | Type of land where caribou were seen<br>(Were they on ridge tops, valley bottoms, boulder fields, shorelines, frozen lakes, water crossings, other?) |
|--------------|-----------|------------------------------|--|
| Calv #1      |           |                              |  |
| Calv #2      |           |                              |  |
| Calv #3      |           |                              |  |
| Not on map   |           |                              |  |

**[D-2-2] WHAT AFFECTS CALVING LOCATION**

➤ Did anything in particular affect where caribou calved last spring?

Yes     No



*[Write notes here]*



➤ Which of the following affected where they calved? [Check **all** that apply]

- snow conditions
- too much snow
- not much snow
- wind
- ice conditions
- other weather conditions *[ask for details]*
- poor feed areas
- good feed areas
- wolves or other predators
- human activity *[ask for details]*
- other *[ask for details]*

## [D-3] Fall Caribou Migration and Caribou Hunt (July 1 to Nov. 1)

### [D-3-1] AVAILABILITY TO COMMUNITY-FALL

➤ How available were caribou to this community for hunting this past fall?

Close by and easily found

Not close, required lots of effort to get them

Not at all available



➤ If it was difficult for people in the community to get caribou, what made it hard?

### [D-3-2] HUNTING-FALL

➤ Did you go caribou hunting or see caribou this fall?

Yes

No

➤ When there are caribou available, do you usually hunt for caribou in the fall?

Yes

No

***[Do not ask any more questions in this section. Go to PAGE 8]***

➤ What was the main reason that you didn't go caribou hunting this fall?

Caribou were too far away to try hunting them.

Weather or snow conditions were too bad for hunting.

Other reasons

➤ Describe these conditions

***[Do not ask any more questions in this section. Go to PAGE 8]***

### [D-3-3] MEETING NEEDS-FALL

➤ Did you get enough caribou this fall to meet your needs?

Yes

No

### [D-3-4] FALL MIGRATION

➤ Describe the migration of caribou this fall.

**[D-3-5] FALL MIGRATION TABLE**

➤ Show me on the map where you saw caribou in the fall.

[Label the map with a reference number from the chart and ask all the questions in the row for that reference number on the chart. If an observation is for a location not on the map, or is not related to one location, use the last row.]

| Ref # on map      | Date seen | Moving? (yes or no; if yes, direction moving) | Number seen  | Group composition   | Type of land (ridge tops, valley bottoms, boulder fields, shorelines, frozen lakes, water crossings, other?) | Were the caribou feeding?   | General comments about conditions observed |
|-------------------|-----------|---|--|---|--|---|--|
| <b>FM #1</b>      |           |   | <input type="checkbox"/> Just a few caribou<br><input type="checkbox"/> Lots (50 to 100)<br><input type="checkbox"/> LOTS (100- 500)<br><input type="checkbox"/> REALLY LOTS (more than 500) | <input type="checkbox"/> Bulls<br><input type="checkbox"/> Cows<br><input type="checkbox"/> Cows w/ calves<br><input type="checkbox"/> Mixed groups |  | <input type="checkbox"/> Feeding<br><input type="checkbox"/> Not feeding<br><input type="checkbox"/> Don't know |  |
| <b>FM #2</b>      |           |   | <input type="checkbox"/> Just a few caribou<br><input type="checkbox"/> Lots (50 to 100)<br><input type="checkbox"/> LOTS (100- 500)<br><input type="checkbox"/> REALLY LOTS (more than 500) | <input type="checkbox"/> Bulls<br><input type="checkbox"/> Cows<br><input type="checkbox"/> Cows w/ calves<br><input type="checkbox"/> Mixed groups |  | <input type="checkbox"/> Feeding<br><input type="checkbox"/> Not feeding<br><input type="checkbox"/> Don't know |  |
| <b>FM #3</b>      |           |   | <input type="checkbox"/> Just a few caribou<br><input type="checkbox"/> Lots (50 to 100)<br><input type="checkbox"/> LOTS (100- 500)<br><input type="checkbox"/> REALLY LOTS (more than 500) | <input type="checkbox"/> Bulls<br><input type="checkbox"/> Cows<br><input type="checkbox"/> Cows w/ calves<br><input type="checkbox"/> Mixed groups |  | <input type="checkbox"/> Feeding<br><input type="checkbox"/> Not feeding<br><input type="checkbox"/> Don't know |  |
| <b>Not on Map</b> |           |   | <input type="checkbox"/> Just a few caribou<br><input type="checkbox"/> Lots (50 to 100)<br><input type="checkbox"/> LOTS (100- 500)<br><input type="checkbox"/> REALLY LOTS (more than 500) | <input type="checkbox"/> Bulls<br><input type="checkbox"/> Cows<br><input type="checkbox"/> Cows w/ calves<br><input type="checkbox"/> Mixed groups |  | <input type="checkbox"/> Feeding<br><input type="checkbox"/> Not feeding<br><input type="checkbox"/> Don't know |  |

**[D-3-6] FALL BODY CONDITION**

➤ Compared to other fall hunts, were the caribou this fall:

- in good shape (had lots of rump fat)?
- in fair condition (some back fat, but less than one inch)?
- in poor/skinny shape (little or no rump fat or gut fat)?
- or was there a mix of some fat caribou and some skinny caribou?
- don't know

➤ Was there anything unusual to report about these animals' body condition this fall?

- No     Yes *[if yes, ask]*    —→    ➤ Please explain.

## [D-4] Winter Caribou Observations (November 1 to now)

### [D-4-1] AVAILABILITY TO COMMUNITY-WINTER

➤ How available have caribou been to this community since the beginning of the rut?

- Close by and easily found       Not close, required lots of effort to get them  
 Not at all available



➤ If it was difficult for people in the community to get caribou, what made it hard?

### [D-4-2] HUNTING-WINTER

➤ Have you been caribou hunting or have you seen caribou this winter?

- Yes       No

➤ When there are caribou available, do you usually hunt for caribou in the winter?

- Yes       No

**[Do not ask any more questions in this section. Go to PAGE 11]**

➤ What was the main reason that you didn't go caribou hunting this winter?

- Caribou were too far away to try hunting them.  
 Weather or snow conditions were too bad for hunting.  
 Other reasons

➤ Describe these conditions

**[Do not ask any more questions in this section. Go to PAGE 11]**

### [D-4-3] MEETING NEEDS-WINTER

➤ Did you get enough caribou this winter to meet your needs?

- Yes       No

### [D-4-4] WINTER MOVEMENTS

➤ Describe the movements of caribou this winter.

**[D-4-5] WINTER TABLE**

➤ Show me on the map where you have seen caribou this winter.

*[Label the map with a reference number from the chart and ask all the questions in the row for that reference number on the chart. If an observation is for a location not on the map, or is not related to one location, use the last row.]*

| Ref # on map      | Date seen | Moving? (yes or no; if yes, direction moving) | Number seen  | Group composition   | Type of land (ridge tops, valley bottoms, boulder fields, shorelines, frozen lakes, water crossings, other?) | Were the caribou feeding?   | General comments about conditions observed |
|-------------------|-----------|---|--|---|--|---|--|
| <b>WC-#1</b>      |           |   | <input type="checkbox"/> Just a few caribou<br><input type="checkbox"/> Lots (50 to 100)<br><input type="checkbox"/> LOTS (100- 500)<br><input type="checkbox"/> REALLY LOTS (more than 500) | <input type="checkbox"/> Bulls<br><input type="checkbox"/> Cows<br><input type="checkbox"/> Cows w/ calves<br><input type="checkbox"/> Mixed groups |  | <input type="checkbox"/> Feeding<br><input type="checkbox"/> Not feeding<br><input type="checkbox"/> Don't know |  |
| <b>WC #2</b>      |           |   | <input type="checkbox"/> Just a few caribou<br><input type="checkbox"/> Lots (50 to 100)<br><input type="checkbox"/> LOTS (100- 500)<br><input type="checkbox"/> REALLY LOTS (more than 500) | <input type="checkbox"/> Bulls<br><input type="checkbox"/> Cows<br><input type="checkbox"/> Cows w/ calves<br><input type="checkbox"/> Mixed groups |  | <input type="checkbox"/> Feeding<br><input type="checkbox"/> Not feeding<br><input type="checkbox"/> Don't know |  |
| <b>WC #3</b>      |           |   | <input type="checkbox"/> Just a few caribou<br><input type="checkbox"/> Lots (50 to 100)<br><input type="checkbox"/> LOTS (100- 500)<br><input type="checkbox"/> REALLY LOTS (more than 500) | <input type="checkbox"/> Bulls<br><input type="checkbox"/> Cows<br><input type="checkbox"/> Cows w/ calves<br><input type="checkbox"/> Mixed groups |  | <input type="checkbox"/> Feeding<br><input type="checkbox"/> Not feeding<br><input type="checkbox"/> Don't know |  |
| <b>Not on Map</b> |           |   | <input type="checkbox"/> Just a few caribou<br><input type="checkbox"/> Lots (50 to 100)<br><input type="checkbox"/> LOTS (100- 500)<br><input type="checkbox"/> REALLY LOTS (more than 500) | <input type="checkbox"/> Bulls<br><input type="checkbox"/> Cows<br><input type="checkbox"/> Cows w/ calves<br><input type="checkbox"/> Mixed groups |  | <input type="checkbox"/> Feeding<br><input type="checkbox"/> Not feeding<br><input type="checkbox"/> Don't know |  |

**[D-4-6] WHAT AFFECTS WINTERING LOCATION**

➤ Did anything in particular affect where the caribou have been this winter?

Yes    No

*[Write notes here]*

➤ Which of the following affected where they have been since the beginning of the rut? *[Check **all** that apply]*

- snow conditions
- too much snow
- not much snow
- wind
- ice conditions
- other weather conditions *[ask for details]*
- poor feed areas
- good feed areas
- wolves or other predators
- human activity *[ask for details]*
- other *[ask for details]*

**[D-4-7] WINTER BODY CONDITION**

➤ Based on your harvest since the beginning of the rut, were the caribou:

- in good shape (had lots of rump fat)?
- in fair condition (some back fat, but less than one inch)?
- in poor/skinny shape (little or no rump fat or gut fat)?
- or was there a mix of some fat caribou and some skinny caribou?
- don't know

➤ Was there anything unusual to report about these animals' body condition from this winter, since the beginning of the rut?

No    Yes *[if yes, ask]*   ➔ ➤ Please explain.

## [D-5] General Questions about Caribou

### [D-5-1] HEALTH OF HERD

➤ Do you think the Porcupine Caribou Herd is healthy?  Yes  No



➤ Why not?

### [D-5-2] PREDATORS

➤ Have you seen any kills of caribou by predators this past year? (Such as bears, wolves, eagles, wolverines)? *[If yes]* ➤ Where?

| Ref # on map | Type of predator   | Number of caribou and other details |
|--------------|--|-------------------------------------|
| Kill #1      | <input type="checkbox"/> Wolf<br><input type="checkbox"/> Bear<br><input type="checkbox"/> Wolverine<br><input type="checkbox"/> Other _____ |                                     |
| Kill #2      | <input type="checkbox"/> Wolf<br><input type="checkbox"/> Bear<br><input type="checkbox"/> Wolverine<br><input type="checkbox"/> Other _____ |                                     |
| Not on map   | <input type="checkbox"/> Wolf<br><input type="checkbox"/> Bear<br><input type="checkbox"/> Wolverine<br><input type="checkbox"/> Other _____ |                                     |

**[D-6] Questions for People who Harvested Caribou**

**[D-6-1] UNHEALTHY CARIBOU**

➤ How many caribou did you harvest from last April until now? \_\_\_\_\_

➤ Of those caribou that you harvested, how many of them looked like they were sick or unhealthy? \_\_\_\_\_

*[If some were unhealthy]*

➤ Describe these unhealthy caribou and mark where you found them on the map, if possible.

| Ref # on map | Number of animals | Month of year seen | Sex ( <i>circle</i> ) | Age class ( <i>circle</i> ) | What was wrong with them? |
|--------------|-------------------|--------------------|-----------------------|-----------------------------|---------------------------|
| UC #1        |                   |                    | male<br>female        | Adult<br>Yearling<br>Calf   |                           |
| UC #2        |                   |                    | male<br>female        | Adult<br>Yearling<br>Calf   |                           |
| Not on Map   |                   |                    | male<br>female        | Adult<br>Yearling<br>Calf   |                           |

## [E] Other Animals

### [E-1] UNUSUAL SIGHTINGS

➤ In this section we are going to go through a list of animals and I'll write down your observations. First I'd like to ask you if you saw any unusual animals this past year, including any unusual birds, fish or insects?

➤ Did you see any animals in places that you don't usually see them?

➤ Now I'm going to go through a list of animals. Please tell me if you've noticed anything that is changing or is unusual about these animals, or anything else that you think it is important to mention.

This could include your observations on things like

- numbers of the animals,
- or on where they were this year,
- or about diseases,
- or if these animals are having an effect on other animals.

Please use the map to show me where you saw specific things that you talk about.

*[Instructions for the Other Animals questions:*

*-If the person gives you a location on the map related to a comment, mark it on the map using the map code for that animal or the name of the animal. You can also just write down the location on this form, if this is easier.*

*-For birds, always write down what kind of bird they are commenting on (for example, are they talking about ducks in general, or just one type, like eiders or mallards?)]*

---

➤ First we'll talk about birds

### [E-2]

➤ Grouse and Ptarmigan

**[E-3]**

➤ Waterfowl - Ducks, Geese, Swans, and Cranes

Map Code: WF

| Type of Duck, Geese, Swan or Crane | Location | Number seen  | Observations |
|------------------------------------|----------|--|--------------|
| Ducks<br>TYPE:                     |          | <input type="checkbox"/> More<br><input type="checkbox"/> About the same<br><input type="checkbox"/> fewer |              |
| Geese<br>TYPE:                     |          | <input type="checkbox"/> More<br><input type="checkbox"/> About the same<br><input type="checkbox"/> fewer |              |
| Swans                              |          | <input type="checkbox"/> More<br><input type="checkbox"/> About the same<br><input type="checkbox"/> fewer |              |
| Cranes                             |          | <input type="checkbox"/> More<br><input type="checkbox"/> About the same<br><input type="checkbox"/> fewer |              |
|                                    |          | <input type="checkbox"/> More<br><input type="checkbox"/> About the same<br><input type="checkbox"/> fewer |              |

➤ Have you noticed any changes in migration for ducks, geese, swans or cranes? This could be things like changes in when they pass through an area, where they stop, or how long they stop for.

**[E-4]**

➤ Birds of prey (hawks, falcons, eagles, owls)

Map Code: BP

**[E-5]**

➤ Small Birds (ask name of bird or description)

Map Code: SO

**[E-6]**

➤ What were the mosquitoes like last summer?

- worse than other years
- about normal
- fewer bugs than usual

➤ Do you have any other comments on the insects this past summer?

---

➤ Now we'll move on to mammals, starting with the small ones

**[E-7]**

➤ Mice, Voles and Lemmings

**[E-8]**

➤ Ground Squirrels

**[E-9]**

➤ Rabbits

- Are there:  Lots around this year  
 Few, or  
 None

➤ Any observations about rabbits?

**[E-10]**

➤ Moose (Tuttuvak, Dinjik)

Map Code: MS

**[E-11]**

➤ Muskoxen (Umingmak)

➤ Did you see any muskoxen this year?

[If yes] ➤ Please show me on the map where they were

| Map Ref #  | Observation                             |
|------------|---|
| MO #1      | Number seen: _____<br>Approximate Date: |
| MO #2      | Number seen: _____<br>Approximate Date: |
| Not on Map | Number seen: _____<br>Approximate Date: |

➤ Do you have any general comments about muskoxen?

*[If they talk about caribou-muskoxen interactions, ask for details of observations]*

**[E-12]**

➤ Muskrats

**[E-13]**

➤ Beavers

**[E-14]**

➤ Marten, mink or weasels

**[E-15]**

➤ Wolverine

**[E-16]**

➤ Red Fox or White Fox

**[E-17]**

➤ Lynx (Niutuyiq; Niinjii)

**[E-18]**

➤ Bears (Aklaq, Akhak, Iggarlik, Nanuq; Shoh, Shih)

Map Code: BR

*[Make sure to note if they are commenting on Black Bear, Grizzly or Polar Bears]*

➤ Did you see any bears with cubs this year?

Map Code: CUB

*[Make sure to note if they are commenting on Black Bear, Grizzly or Polar Bears]*

*[If yes]* ➤ How many?

➤ Where?

**[E-19]**

➤ Wolves (Amaruq, Amaguq, Zhoh)

Map Code: WV

**[E-16] Furbearers and Trapping**

➤Did you do any trapping this year?

- Yes     No

➤Was this a good year for trapping?

Good

Bad



➤What made it good?

➤What made it bad?



*[Check **all** those that apply]*

price for fur

price for fur

price of gas

price of gas

weather- too cold

weather- cold

weather- warm

weather- too warm

weather- made for easy access

weather- made for difficult access

lots of animals

few or hard to find animals

Other:

***[The next questions on this page are only for people who were out trapping this year]***

➤Please tell me about each kind of animal that you trapped this year.

| Animal | Numbers of animals (circle) | Condition of furs this year and Observations |
|--------|-----------------------------|--|
|        | Lots, some, few             | Poor, fair, prime, other _____               |
|        | Lots, some, few             | Poor, fair, prime, other _____               |
|        | Lots, some, few             | Poor, fair, prime, other _____               |
|        | Lots, some, few             | Poor, fair, prime, other _____               |

➤Do you have other comments on this year's furs and trapping?

## [F] Final Words

### [F-1] SUGGESTED IMPROVEMENTS

➤ We do this monitoring project every year and would like your input on how to make it better. What can we do to make this a better interview?

### [F-2] EVALUATION

Please evaluate the Arctic Borderlands Knowledge Coop community monitoring program:

*[Select one of these]*

- It is worthwhile and needs to be continued.
- The idea is good, but it needs some major changes. *[If they select this, please ask what changes]*
- It is okay, but is not really that necessary.
- It should be ended. *[If they select this, please get their reasons]*



*[Thank them for sharing their knowledge, give them their gas coupon, and have them sign the receipt]*