

BACKGROUND:

From Impacts to Adaptation: Canada in a Changing Climate 2007 is a national-scale assessment of climate change impacts and adaptation in Canada. Chapter 3 (Northern Canada) identifies key climate change issues facing northern Canada and highlights current and potential adaptation initiatives.

SURVEY PURPOSE:

To gather the perspectives of Yukon sector representatives on:

- Potential implications of climate change and sector specific adaptations.
- Knowledge gaps in the Northern Canada chapter and research needs

PART A - RESPONDENT INFORMATION:

Thank you for voluntary participation in this survey. Results of this survey will be used to guide the next steps in helping Yukon communities adapt to climate change. Results may be published but your identifying information will not be published anywhere for any reason. We are collecting your identifying information for our own records only.

1. Profile information

Name	
Employer	
Position	
Length of time in this field	
Length of time in this position	
Daily operations / role in sector	

Mailing address	
Phone	
Fax	
Email	

2. What category best describes your role in the sector?

- Government - First Nations
- Government - Federal
- Government - Territorial
- Private Sector – Business
- Private Sector – Consultant
- Non-governmental Organization
- First Nations Organization (non-government)
- Academia
- Other (please specify) _____

3. Have you read Chapter 3 – Northern Canada (*From Impacts to Adaptation: Canada in a Changing Climate 2007*)?

Yes No

4. Would you like to receive a summary report of the results of this survey?

Yes No

5. What Yukon region do you work in?

- Watson Lake 1
- Southern Lakes 2
- Whitehorse 3
- Kluane 4
- Campbell 5
- Klondike 6
- North Yukon 7

6. What stresses / constraints in your area of work are you currently dealing with?

- Staff shortages 1
- Strength of the dollar 2
- Government regulations 3
- Environmental regulations 4
- Lack of resources 5
- Land disputes 6
- Economic downturn 7
- Transportation access 8
- Competition from other regions 9

Other (please specify) _____

PART B – ENVIRONMENTAL CONDITIONS – CURRENT STATUS & SIGNIFICANCE:

1. For the following climate change impacts, please indicate whether you have observed their occurrence and if you think they are significant within your work.

IMPACT	OCCURRENCE			SIGNIFICANCE				COMMENTS	
PERMAFROST MELTING									
Problems with road infrastructure	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Problems with building infrastructure	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Cultural heritage site destruction	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
WEATHER EVENTS									
Increased challenges in building snow shelters (changes in snow composition)	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Increased power outages	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Increased storms	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Increased floods	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Increased droughts	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Increased forest fires	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	

FOOD SECURITY									
Altered wildlife migration patterns	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Changes in access to hunting grounds (changed climate conditions)	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Changes in abundance or distribution of fish	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Changes in abundance or distribution of wildlife	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Decreased food security (more reliance on store bought foods)	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
HEALTH AND SAFETY									
Increased incidence of people stranded (unpredictable weather)	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Increased number of accidents caused by weather (storms etc.)	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Increased incidents of accidents or drowning caused by decreased ice stability and duration	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Increased cold related injuries (frostbite, hypothermia etc.) and/or deaths	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Increased heat related injuries and/or deaths	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	

Increased injuries from ultraviolet-B exposure (skin cancers, burns, eye damage etc.)	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Increased incidence of food- and water-borne diseases (Giardia, Salmonella, parasites etc.)	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Increased numbers of insects (biting flies, bees etc)	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Increased incidence of vector-borne diseases (Lyme or West Nile)	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Emergence of new diseases	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Human health impacts from human-animal contacts (southern species like cougar moving into the area)	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Health issues related to greater reliance on store bought foods	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Increased incidence of respiratory and cardiovascular diseases (from air pollution)	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Gastrointestinal outbreaks from ppte or flooding events	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Increased intake of environmental contaminants (mercury, organochlorines) from country foods	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Issues with drinking water (quantity, quality and/or access)	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	

Increased incidence of human distress (alcohol abuse, violence, suicide) due to environmental/social changes	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
CULTURAL IDENTITY									
Decreased cultural identity due to less traditional activities (hunting, fishing & gathering)	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	
Reduced transmission of traditional knowledge/ environmental respect to younger generations	YES	NO	Don't Know		Significant	Insignificant	Not Relevant	Don't Know	

2. Are there other climate change and environmental conditions that you're seeing that aren't listed above?

Yes No

If yes, what are they?

3. How have you become aware of climate change impacts?

Observation/experience 1

Communication within sector 2

Media 3

Other (please specify) _____

PART C – ADAPTATIONS – SECTOR SPECIFIC:

Adaptation = any action that reduces the negative impact of climate or takes advantage of potential new opportunities.

1. Of the climate and environmental changes you’ve identified, how are you currently dealing with these conditions?

2. These are examples of potential adaptations in your sector. Please indicate their current status in your work. Please share any comments you have on the adaptation listed or on any similar adaptations you know of.

ADAPTATION	STATUS						COMMENTS
	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
Emergency preparedness planning	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
People taking more supplies with them when travelling on the land (food, clothing, lighters etc.)	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	

People taking more equipment when travelling on ice (small boats etc.)	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
People delaying and/or cancelling trips on the land due to weather	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
Use of GPS (global positioning systems) for navigation	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
Use of larger, faster vehicles	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
Improved staffing and training of search and rescue personnel	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
Community freezer programs	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	

Increased inter-community trade	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
More frequent water-quality testing (municipal and untreated water sources)	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
Tracking of public health outbreaks	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
Public education on climate change	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
Community research projects on climate change/adaptation	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
Formalized teaching of traditional skills and knowledge	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	

Economic support for the pursuit of traditional and subsistence ways of life	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
--	---------------------	-------------------	---------	--	--	----------	--

3. Are there other climate change adaptations occurring (or planned) that aren't listed above?

Yes No

If yes, what are they?

4.a Do you personally consider climate change an important issue?

Yes No

4.b Is climate change an issue in the context of your workplace?

Yes No

5. Do you believe there is a point in your work at which impacts of climate change will be setting (at least part of) your agenda?

Yes No

Can you describe that?

6. Which policy(s), publications and resources would you need to change to address climate change impacts in your work (e.g. Yukon Health Guide, Employee Travel Policy etc.)?

7. What information and/or research data do you still need in order to implement adaptations?

8. What makes it difficult for your sector to address these climate change and environmental conditions (uncertainty of data, lack of data etc.)?

9. Do climate changes offer any opportunities/benefits in your sector?

No 1 Yes 2 Don't know 3

If yes, what are they?

10. The ability to adapt is influenced by the following factors. Please identify which would assist your sector in adapting to climate change.

Factor	Yes	No	Don't know
Financial support for adaptation			
Access to adaptation technology and knowledge			
Information and skills (scientific or traditional) of community members			

Ability for various levels of governing bodies to work together (Government, First Nations, NGOs, etc.)			
Risk perception of community members			
Policy change			
Others...			

11. Of the following list of stakeholders, please indicate who you feel you would need to work with in order to carry out adaptations.

- Government - First Nations
- Government – Federal
- Government - Territorial
- Private Sector – Business
- Private Sector – Consultant
- Other (please specify) _____
- Non-governmental Organization
- First Nations Organization (non-government)
- Medical Professional
- Spiritual Organization
- Academia

Thank You!

Northern Climate ExChange
 Northern Research Institute, Yukon College
www.taiga.net/nce
 (867)-668-8862