

**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 Results may be published but your identifying information will not be published anywhere for any reason.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

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

<b>Mailing address</b>	
<b>Phone</b>	
<b>Fax</b>	
<b>Email</b>	

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
- Outdated technology  2
- Government regulations  3
- Environmental regulations  4
- Lack of resources  5
- Land disputes  6
- Unstable markets  7

Other (please specify) \_\_\_\_\_

7. What area of water management are you involved in?

- Hydroelectric  1
- Municipal water treatment  2
- Drinking water quality - assessment and monitoring  3
- Flood/natural hazard risk management  4

Other (please specify) \_\_\_\_\_

8. What category best describes your role in the company/agency?

- Senior/executive management  1
- Operations management  2
- Health and Safety  3
- Office and administration  4  
(e.g. Human Resources, PR, Marketing, Sales)
- Tradesperson/labourer  5
- Scientist  6
- Engineer  7
- 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
<b>HYDROELECTRIC</b>									
Changes in the magnitude and seasonality of river flows	YES	NO	Don't Know	<input checked="" type="checkbox"/>	Significant	Insignificant	Not Relevant	Don't Know	
Changes in river-ice regimes has/will alter threats from downstream ice jamming	YES	NO	Don't Know	<input checked="" type="checkbox"/>	Significant	Insignificant	Not Relevant	Don't Know	

Projected increases in winter runoff and rainfall and enhanced winter snowmelt will lead to a decline in winter snow storage	YES	NO	Don't Know	<input checked="" type="checkbox"/>	Significant	Insignificant	Not Relevant	Don't Know	
<b>FLOOD RISKS</b>									
Increased occurrence of ice-jam flooding	YES	NO	Don't Know	<input checked="" type="checkbox"/>	Significant	Insignificant	Not Relevant	Don't Know	
Increased occurrence of rain-induced floods in the spring or summer	YES	NO	Don't Know	<input checked="" type="checkbox"/>	Significant	Insignificant	Not Relevant	Don't Know	
Flooding and erosion in the coastal zone due to sea-level rise	YES	NO	Don't Know	<input checked="" type="checkbox"/>	Significant	Insignificant	Not Relevant	Don't Know	
<b>DRINKING WATER</b>									
Climate-related impacts on the <b>quantity</b> and <b>accessibility</b> of drinking water resources	YES	NO	Don't Know	<input checked="" type="checkbox"/>	Significant	Insignificant	Not Relevant	Don't Know	
Climate-related impacts on the <b>quality</b> of drinking water resources	YES	NO	Don't Know	<input checked="" type="checkbox"/>	Significant	Insignificant	Not Relevant	Don't Know	



**PART C – ADAPTATIONS AND RESPONSES**

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

1. Of the climate and environmental changes that you mentioned above, how are you currently dealing with these conditions?

2. What action is being (or not being) undertaken to adapt to current climate change impacts and to plan for potential future impacts? Please share any comments you have on the adaptation listed (Note: Leave empty if not applicable to you)

ADAPTATION	STATUS						COMMENTS
<b>HYDROELECTRIC</b>							
Increased focus on safety of existing dam structures	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
Redefine the Inflow Design Flood (IDF: volume, peak, duration, shape, and timing) for dams	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
Development of hydrological models capable of predicting flow for particular rivers	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	

Expand reservoir capacities on current and future developments to offset loss in natural storage	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
a. Raising the height of the retention dam – thereby increasing storage area and volume	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
b. Construction of additional storage or facilities in other locations	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
<b>FLOOD RISKS</b>							
Construction of dikes in areas of high flood risk	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
Increased flood response preparedness	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	

Climate change related flood risks are taken into account in land-use planning and development decisions	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
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**DRINKING WATER**

Development of and/or upgrades to municipal water treatment facilities	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
More frequent water-quality testing of both municipal systems and untreated water sources	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
Northern residents becoming increasingly reliant on bottled water	Already Implemented	Being Implemented	Planned	Not Implemented/ Planned (Should Be)	Not Implemented/ Planned (Unnecessary)	Not Sure	
Increased protection of fresh water sources and reserves	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?

No  1 Yes  2

If yes, what are they?

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

No  1 Yes  2 Don't know  3

4.b Does your workplace consider climate change an important issue?

No  1 Yes  2 Don't know  3

5. In your work, are climate change impacts being dealt with:

Proactively (i.e. before impacts affect you)  1

Reactively (i.e. after you have started to be affected)  2

Why?

6. Which policy(s), publications and resources would you need to change to address climate change impacts in your work (e.g. Climate change scenarios, hydrological models, government funding, etc.)?

7. What information and/or research data do you still need to help you adapt?

- More reliable data on climate change impacts  **1**
- More clarity in government policy  **2**
- Better access to climate and weather information  **3**

Other (please specify) \_\_\_\_\_

8. What are some other barriers to adaptations?

- Financial  **1**
- Access to technology  **2**
- Information and skills of sector employees  **3**
- Ability for various levels of governing bodies to work together (business, gov't, NGO's etc.)  **4**
- Risk perception of sector employees (i.e. people don't see a problem)  **5**

Other (please specify) \_\_\_\_\_

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

- |                             |                          |          |                               |                          |          |
|-----------------------------|--------------------------|----------|-------------------------------|--------------------------|----------|
| First Nations Organization  | <input type="checkbox"/> | <b>1</b> | Non-governmental Organization | <input type="checkbox"/> | <b>6</b> |
| Government – Federal        | <input type="checkbox"/> | <b>2</b> | Medical Professional          | <input type="checkbox"/> | <b>7</b> |
| Government - Territorial    | <input type="checkbox"/> | <b>3</b> | Spiritual Organization        | <input type="checkbox"/> | <b>8</b> |
| Private Sector – Business   | <input type="checkbox"/> | <b>4</b> | Academia                      | <input type="checkbox"/> | <b>9</b> |
| Private Sector – Consultant | <input type="checkbox"/> | <b>5</b> |                               |                          |          |

Other (please specify) \_\_\_\_\_

***THANK YOU!***

**Contact:**

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