



Climate Change Impacts Southern First Nation Communities

Mushkegowuk Environmental Stewards

Chapleau Cree First Nation
Missanabie Cree First Nation
Taykwa Tagamou Nation



Community Profiles

- ***CHAPLEAU CREE FIRST NATION***
Northeastern Ontario
 - located 220kms Southwest of Timmins
 - 450 Population 50 on reserve
 - Semi-remote HWY 101 & HWY 129 to Community
- ***MISSANABIE CREE FIRST NATION***
 - 487 people off reserve 13 in township
Semi-remote
 - 320 kms from Timmins..Highway 651 to community
- ***TAYKWA TAGAMOU NATION***
 - 20km West of Cochrane
 - 620 Members, 150 on Reserve



What are the impacts?

Impacts

- Rain during the winter
- Flooding & Fast Run off
- Low & High water levels
- High winds
- Ice unpredictable
- Decline in Moose Population
- Hotter summer
- Sun feels hotter

Effects

- Dangerous travel conditions
- Infrastructure damage
- Unsafe boat travel, affects fish
- Trees down, infrastructure damage
- Quality of ice becomes unsafe
- Food Security Threatened/costly
- Blueberries plants burning, less blue berries
- Health Risk

Moose harvest & preparation.



- Food security threatened
- Warmer fall, hunting in warmer weather can cause spoilage
- Changes in mating season(Rut)
- Changes the way we hunt
- Making it harder to harvest

Deer Migrating



Deer starting to migrate north

Worms in birds

Only noticed within the last 2-5 years

Round Worm



October, 15 2017

Grouse with worms



Less Robin, Whiskey Jack & Blue Jay sightings



Eagles, Vultures, Pheasants, Sandhill Crane, Cormorants



Fox, Rabbit, Grouse, Spruce Hens



Dead or Dying trees



- Healthy trees are being infested
- birch trees today look unhealthy

- Trees are dying
- over harvested

Waters



- Warmer temperatures
- Levels dropped significantly
- Water security threatened

Tolerant Species



- Infestation of Cray fish and Bass are more tolerant with warmer waters; taking over
- Other species are at risk (walleye, perch, lake trout)
- Bass are aggressive and thrive in any waters.

Ice and snow pack



- Unsafe ice
- Travelling and harvesting becomes difficult
- Snow pack changes



Rain and its effects



- Mild conditions
- Habitat changes
- Flooding – sink holes
- Road closures

High Winds, Microbursts, Power outages



Powerline struck a tree



Infrastructure damage



Chapleau, July 18th 2017



Habitat Changes



- Less blue berries and wild flowers
- less food for bears

Changes in sizes, numbers and species of fish



- Spawning season is later, less and smaller Walleye
- Growths and worms, on Walleye and Northern Pike
- Lake thermocline levels changed
- Mercury is a concern



Warmer Seasons



Bear leaving den early



January 29th 2008
Migratory patterns changed



Rapid Snowmelt
during mid-winter,
flooding

Disrupted animal behaviour and patterns

Extreme weather fluctuations

Wildfires



Wildfire that almost evacuated the town of Missanabie. The community became vulnerable and concerned;

- no evacuation plan
- high risk
- communication down



Adapting to Climate Change..

