



# The Climate Project

Grey County Council Meeting

---

November 28, 2024

# The context

CBC MENU

NEWS Top Stories Local Climate World Canada Politics Indigenous

Science

## 2023 was the hottest year on record – by a long shot

2023 'surprised all climate scientists,' says deputy director of EU's climate agency

Nicole Martiniano · CBC News · Posted: Jan 09, 2024 7:00 AM EST | Last Updated: 4 hours ago



the Guardian journalism with \$5 per month

The Guardian

Opinion Sport Culture Lifestyle More

## Warmer winters and more flooding will be the norm in the UK, scientists warn

The country should be building resilience into the infrastructure to counter flooding like that brought by Storm Henk, experts say

Most viewed



000 NEWS

## Bureau of Meteorology reports Australia's eighth warmest year on record in 2023

By weather reporter Tyne Logan

Posted Thu 4 Jan 2024 at 10:20pm, updated Fri 5 Jan 2024 at 9:33pm


BBC

Home News Sport Business Innovation Culture Travel Earth Video Live

## Nine breakthroughs for climate and nature in 2023 you may have missed

14th December 2023, 03:00 EST

By Future Planet team  
Features correspondent



The US's Billionaire Behavior Act has released huge sums of support for clean energy, jobs and technologies (Credit: Getty Images)

World Health Organization

Health Topics Countries Newsroom Emergencies Data About WHO

## WHO's annual malaria report spotlights the growing threat of climate change



WHO's annual malaria report spotlights the growing threat of climate change

Share on Facebook, WhatsApp, Email, Print, RSS, Français, Português, Español

CBC MENU

NEWS Top Stories Local Climate World Canada Politics Indigenous

Kitchener-Waterloo

## No ice means no ice fishing – warm winter hurts southern Ontario anglers, businesses

'Start date for winter is being pushed back,' Wilfrid Laurier University professor says

Cameron Mahler · CBC News · Posted: Jan 06, 2024 6:00 AM EST | Last Updated: January 6



Glenn Cooke runs Fishing with Herds, a club run out of the University of Waterloo in southern Ontario. He says that because of unreasonable warm weather, he's not sure if the group will be able to go on an ice fishing excursion this season. (Provided by Glenn Cooke)

# The goal

- ▶ **Localize research and scientific knowledge on climate change** for people in this region—those in Bruce, Grey, and Huron counties and local Indigenous communities—all located within the Saugeen Ojibway Nation Territory
- ▶ **Provide actionable intelligence** on what a changing global climate could mean for where we live



# Introducing: The Climate Project



[Home](#) [Air](#) [Water](#) [Land](#) [Contact](#) [Blog](#)

## Global impact, local insights

Localized research on climate change relevant to people in this region—those in Bruce, Grey, and Huron counties and local Indigenous communities—all located within the Saugeen Ojibway Nation Territory.

# The research

## Findings from qualified sources in:

- ▶ Academia
- ▶ Conservation authorities
- ▶ Municipal, provincial and federal governments
- ▶ Local Indigenous knowledge
- ▶ Industry partners, NGOs and more

# A story told in three chapters

AIR

- ▶ Rising air temperatures
- ▶ Air quality trends
- ▶ Precipitation and drought
- ▶ Extreme weather
- ▶ Forest fires

# Our beloved winter traditions may be on thin ice

Over the past 30 years...

64

**days per year with  
temperatures below  
0°C all day**

# Our beloved winter traditions may be on thin ice

By the end of the century, in the most intensive warming scenario...

**14**

**days per year with  
temperatures  
below  
0°C all day**



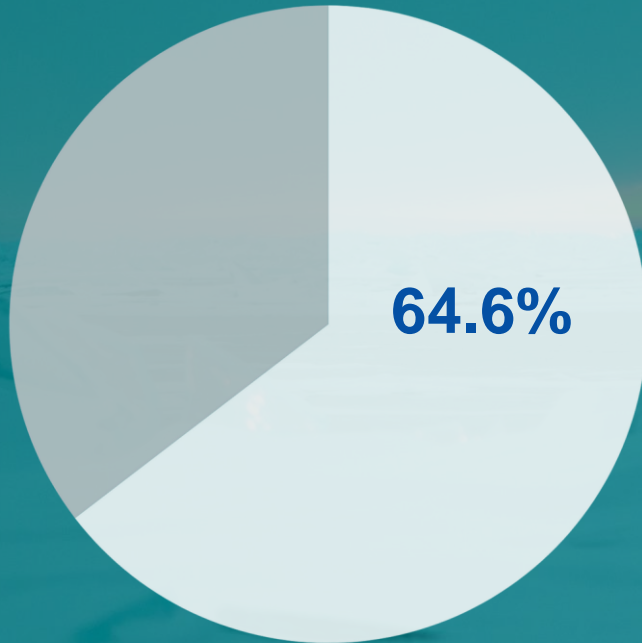
# A story told in three chapters

# WATER

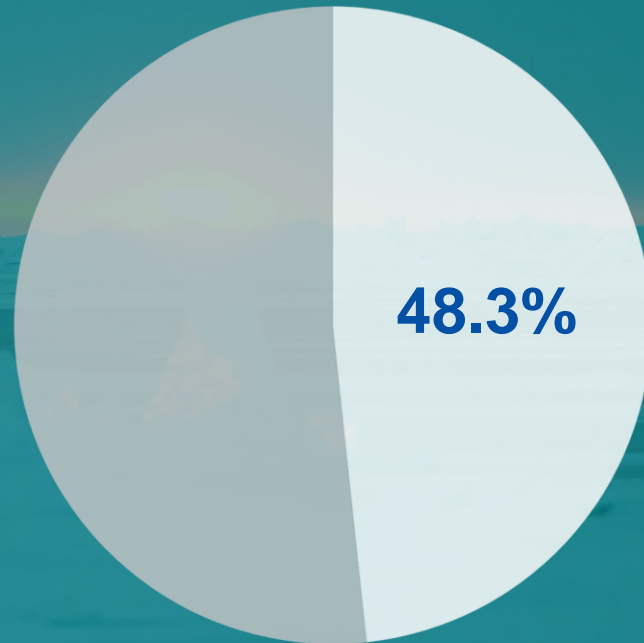
- ▶ Water temperatures
- ▶ Ice cover
- ▶ Shoreline erosion
- ▶ Aquatic ecosystems
- ▶ Invasive species

# Lake Huron ice cover

Avg 1973-2020



2021



# A recipe for lake-effect snow

## Ingredients



**warm,  
unfrozen lake**



**several  
masses of cold  
air**



**breeze  
blowing in  
from the west**

# Shoreline erosion here at home



SOURCE (L-R): CKNX NEWS; CTV NEWS; TOWN OF SAUGEEN SHORES

# A story told in three chapters

LAND

- ▶ Forest health
- ▶ Agriculture and growing seasons
- ▶ Wetlands, rivers and streams
- ▶ Watersheds
- ▶ Diseases and pests



# Our community's forests



SOURCE: BRUCE COUNTY MUSEUM  
CULTURAL CENTRE

Bruce County Museum

Bruce County Museum

ON. ONT.  
cum

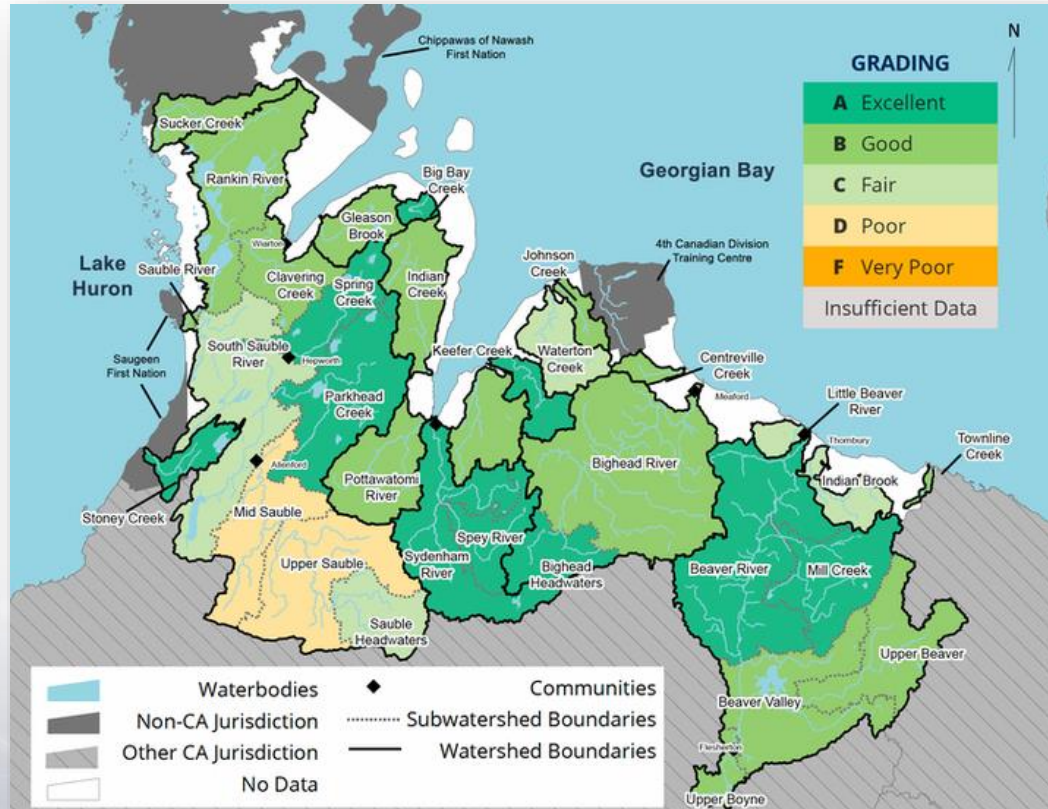
WATSON

# Watershed Report Cards: Forest Conditions





# Watershed Report Cards: Forest Conditions





# Spotlight on local organizations

- ▶ **ALUS**
- ▶ **Saugeen Ojibway Nation Environment Office**
- ▶ **Lake Huron Coastal Centre**
- ▶ **Conservation Authorities**

# Why it matters

- ▶ **Decision-making support:** With up-to-date and localized information, the Climate Project can help inform policy and planning decisions that address climate risks.
- ▶ **Community resource:** Direct concerned citizens to the Climate Project for specific information on how climate change is affecting neighbourhoods, communities, businesses, and environment.

# Council and staff can use the Climate Project as...

- ▶ **A reliable source of data** for informed decisions on climate policy
- ▶ **A resource** for educating and engaging citizens on local climate issues
- ▶ **A platform** to share local climate adaptation, mitigation, and sustainability efforts

**Check it out!**

**[climateproject.ca](https://climateproject.ca)**





Questions?