

# Climate Projections for Huron County

As a result of rising greenhouse gas emissions, the global climate is changing. These changes will have an effect on temperature and precipitation patterns at local levels. This graphic provides a summary of future climate projections for Huron County. This information will be used to anticipate climate events, which will allow us to be better prepared for climate change.

The following projections are the anticipated changes that would occur if emissions continue to rise at the current rate. To understand the climate projections for Huron County, the information has been divided by different years of reference. This includes a baseline period: 1990s (1981-2010), and three projection periods: 2020s (2011-2040), 2050s (2041-2070), and 2080s (2071-2100).

## TEMPERATURE

### Annual Average Temperatures

Temperatures are projected to increase significantly in Huron County, and could double by the end of the century.

Historic	2020s	2050s	2080s
8°C	8°C	11°C	13°C

### Warmer Winters

Temperatures are rising across all seasons, however they are expected to increase most significantly in winter months.

### Frost Days Per Year

Winters are becoming shorter in Huron County.

Historic	2020s	2050s	2080s
139	124	97	74

### Heat Waves Per Year

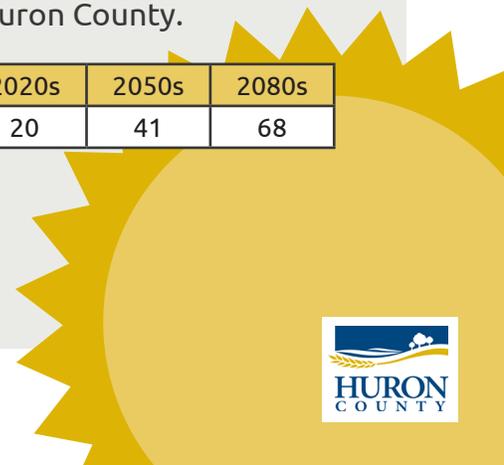
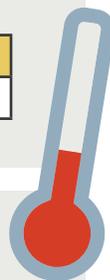
Heat waves occur when high temperatures (+30°C) last for 3 or more days. The number of heat waves in a year, is projected to increase in Huron County.

Historic	2020s	2050s	2080s
1	3	5	7

### Very Hot Days (+30°C)

The number of very hot days is projected to increase. This will contribute to more extreme heat events in Huron County.

Historic	2020s	2050s	2080s
10	20	41	68



# PRECIPITATION

## Wettest Day of the Year

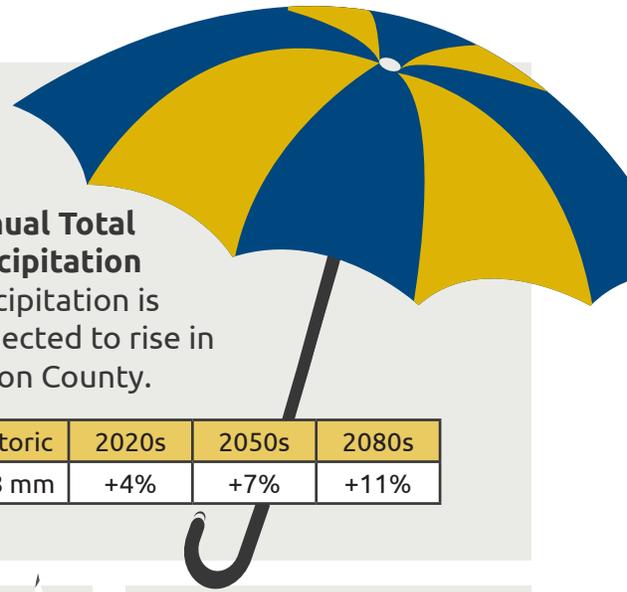
The amount of precipitation on a single day is projected to increase. This will contribute to more extreme rainfall events.

Historic	2020s	2050s	2080s
38 mm	+3%	+8%	+18%

## Annual Total Precipitation

Precipitation is projected to rise in Huron County.

Historic	2020s	2050s	2080s
978 mm	+4%	+7%	+11%



# LAKE HURON

## Lake Levels

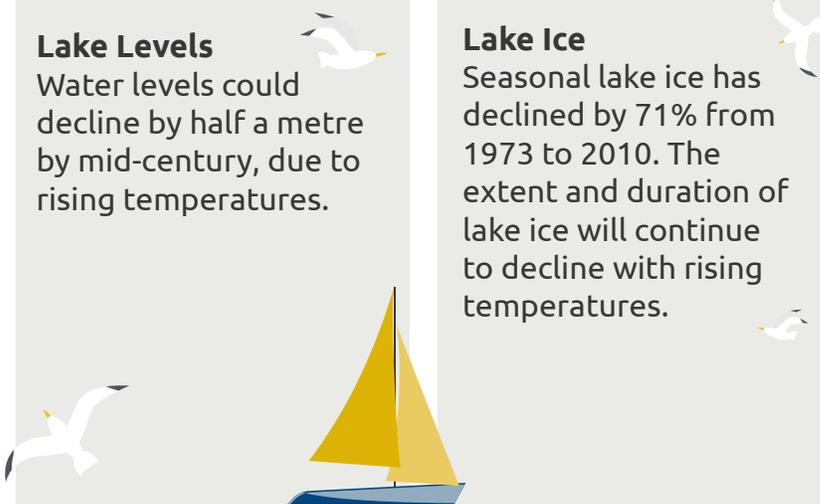
Water levels could decline by half a metre by mid-century, due to rising temperatures.

## Lake Ice

Seasonal lake ice has declined by 71% from 1973 to 2010. The extent and duration of lake ice will continue to decline with rising temperatures.

## Water Temperatures

Water temperatures are projected to increase by 2-4 degrees by the end of the century, compared to a historic maximum temperature of 19.7°



# EXTREME WEATHER

## Extreme Rainfall Events

Rain events are projected to become more intense and frequent in Huron County. This could result in more floods.

## Ice Storms

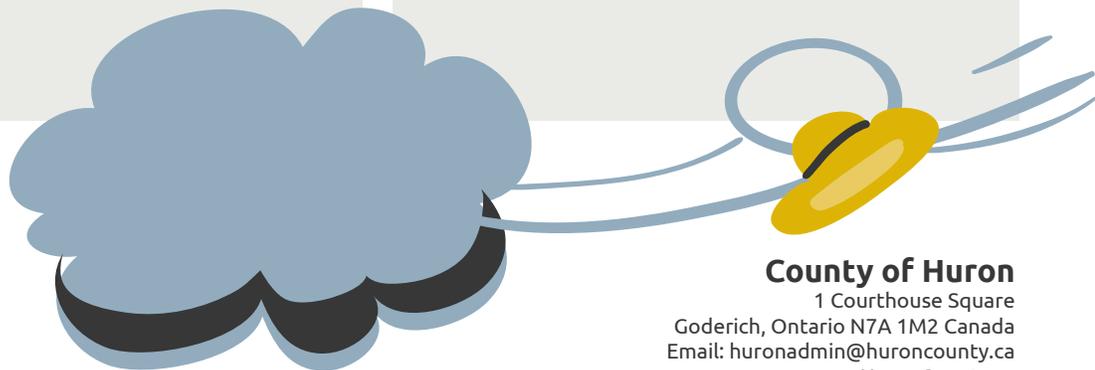
Ice storms are projected to worsen in Huron County as winter temperatures become warmer and snow turns to rain.

## Snow Storms

A reduction in lake ice in combination with rising temperatures is projected to increase lake-effect snow storms in Huron County.

## Wind Gust Events

Wind gust events are projected to become stronger by the end of the century.



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