



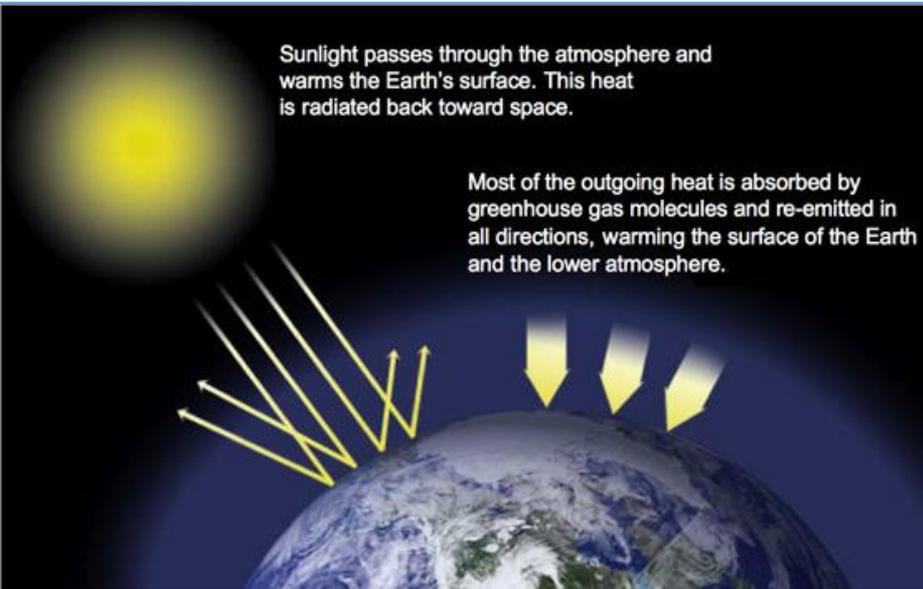
Kawartha Lakes Healthy Environment Plan

Workshop-in-a-Box, a self-guided discussion on Climate Change



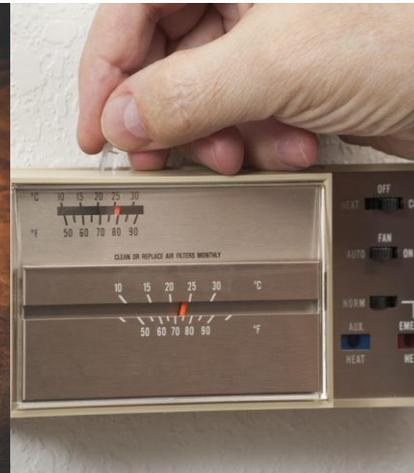
Comments made by the workshop organizer reflect their own opinion and do not necessarily align with those of the City of Kawartha Lakes.

Climate Change and How it Affects Us



- Increased amount of greenhouse gases (GHG's) released from human activities
- Earth's atmosphere can no longer accommodate current levels of human-caused GHG's
- GHG's absorb and hold heat from sun, turning the planet into a "greenhouse" that raises temperatures over time

Major sources of emissions – transportation, electricity, heating and organic waste



What is the Kawartha Lakes Healthy Environment Plan?

- Climate action is a high priority for the City of Kawartha Lakes.
- The City is developing a comprehensive strategy to take action on climate change locally.
- Two areas where we can take action:
 - Mitigation: Reducing the amount of greenhouse gas we emit.
 - Adaptation: Better preparing ourselves for the impacts of climate change.
- The project has three phases of engagement:

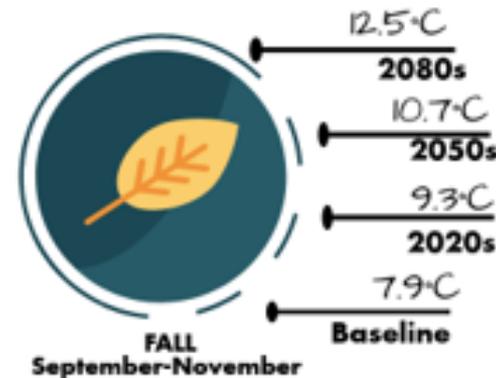
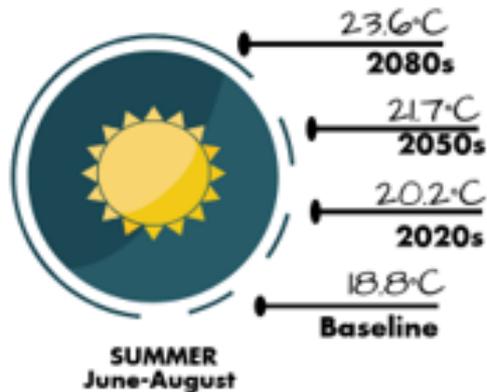
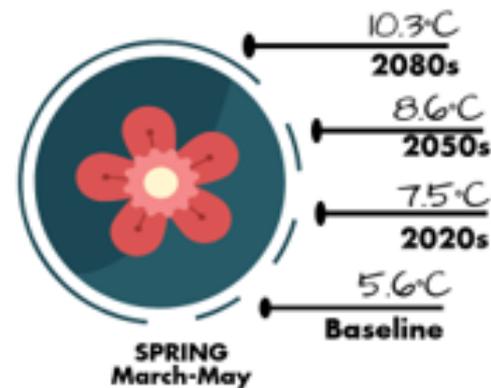
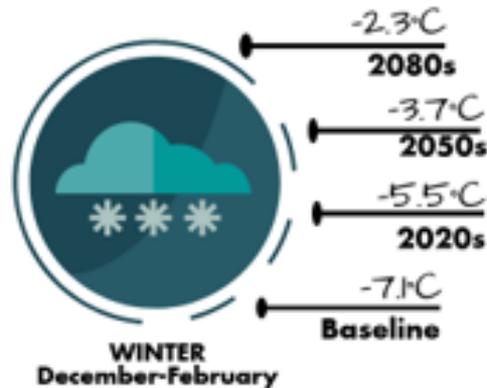
Defining
Where We Are and
Where We Want To Go
(April – May 2018)

Determining
How Do We Get Where
We Want to Go
(May – November, 2018)

Designing
Draft Healthy
Environment Plan and
Implementation
(January 2019)

Warmer Temperatures

- Temperature in Kawartha Lakes is on the rise. We can expect the weather to be warmer in all seasons. On average, the temperature will increase by 4.7°C by the 2080s.



Hotter Days

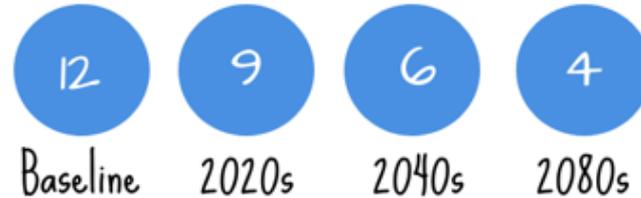


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DAYS ABOVE 30°C



DAYS BELOW -10°C



TEMPERATURE EXTREMES

More hot days,
fewer cold days.

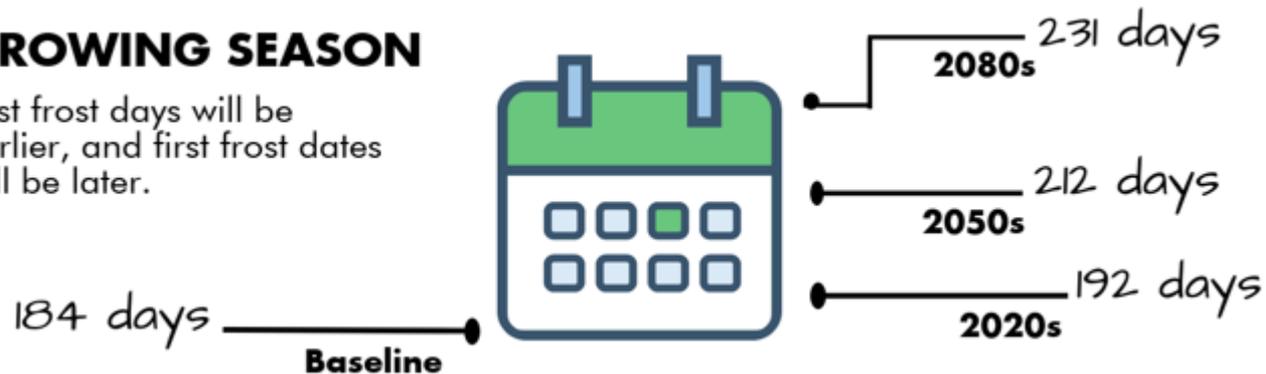
Longer Growing Seasons

We can expect a longer growing season that starts earlier and ends later

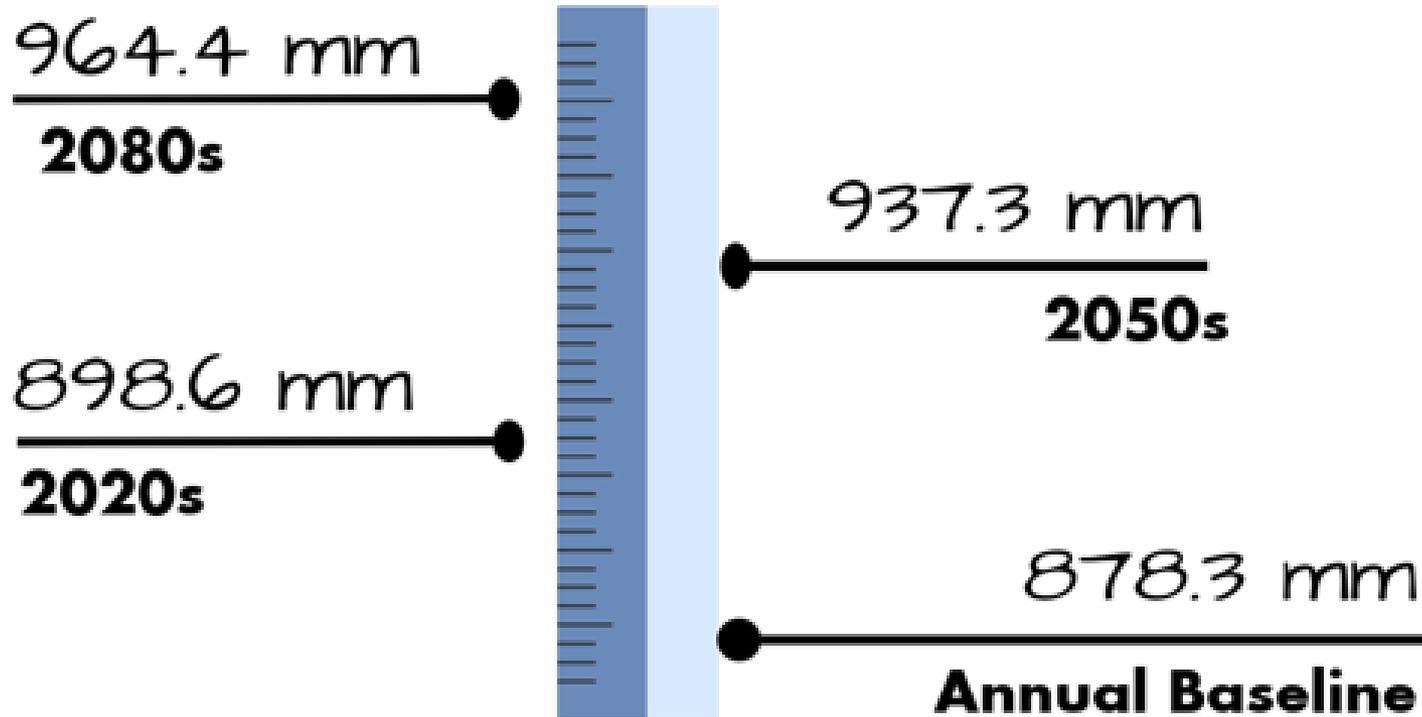


GROWING SEASON

Last frost days will be earlier, and first frost dates will be later.



More Rain and Snow



Annual precipitation is expected to increase
Winter and spring will be wetter



Wilder Weather

- More rain is expected to fall during an average rainy day as well as during extreme weather events.



Precipitation will fall at a faster rate (mm/h)



Shorter storms will have an increasingly high intensity



Return periods of heavy storms will shorten, meaning increased frequency

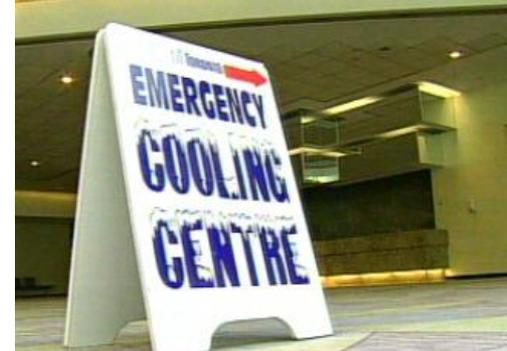
PRECIPITATION EVENTS

Precipitation events in general are projected to become more intense and extreme.



Climate Change Effects in Kawartha Lakes

Indices	Projection
Temperature	<ul style="list-style-type: none">• Warmer in every season• More hot days, fewer cold days
Precipitation	<ul style="list-style-type: none">• Winter and spring getting wetter• Getting more intense
Freeze-Thaw	Fewer cycles in spring and fall
Growing Season	Starting earlier, ending later
Lake water	Warmer temperatures



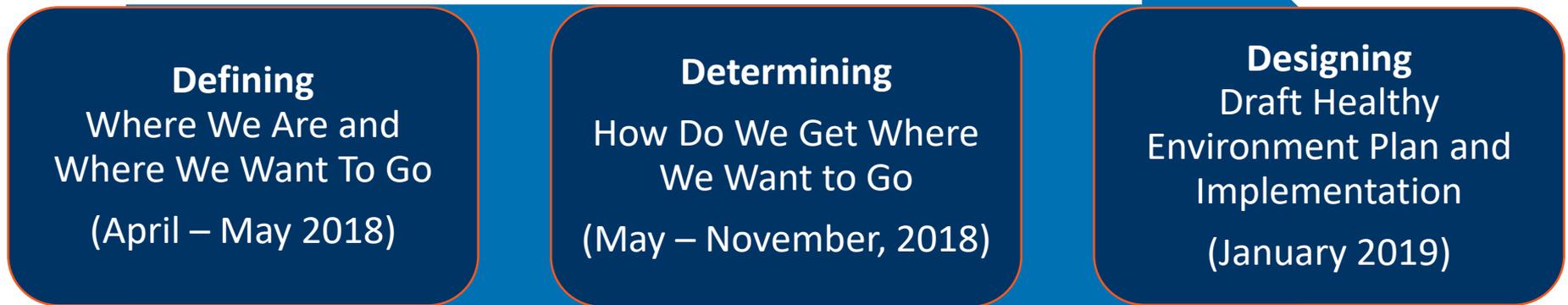
Where Do We Want To Go?



- Provincial guidelines recommend adopting the provincial targets:
- 37% GHG emission reduction by 2030
- 80% GHG emission reduction by 2050
- Resilient to climate change

How to Get Involved

- Three Phases of Engagement



- Visit the website & Complete our survey!

<https://www.surveymonkey.com/r/5CN7MLC>

- Climate Action Conversations

Ice Breaker!

What's one thing you do in the City of Kawartha Lakes that you love to do?

(e.g. walking your dog, going to the market, playing sports, coming to work!, etc.)



Climate Change Impacts

How has climate change impacted you?
(you, your family, your business, the community)



Setting Goals – Think Big!

If you could see our community achieve ONE thing that addresses climate change – what would it be?



Group Discussion

Taking Action

What actions (mitigative and adaptive) can be taken to address climate change?

- What actions can you take?
- What actions can businesses and organizations take?
- What actions can the City of Kawartha Lakes take?

Focus Areas:

