

The Changing Climate of Waterloo Region

climate change is a
GLOBAL CHALLENGE
with local impacts

Our local climate is projected to get
WARMER, WETTER, AND MORE EXTREME



Annual average temperature projection

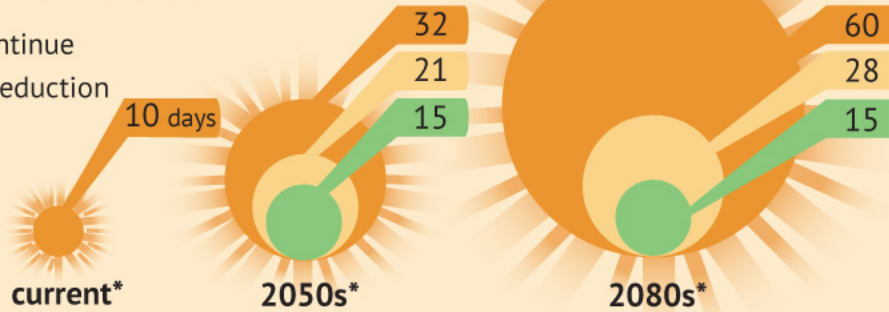
↑ 2-3°C by the 2050s*

More Extreme Summer Heat

Projected average number of days over 30°C per year

Global Greenhouse Gas Emission Scenarios

- If current emissions continue
- Aggressive emissions reduction
- Net-zero emissions



that's like
two full months
of **extreme heat**

More Intense Rain and Storms

Large-scale rainfalls and wind storms
are projected to happen more frequently

Total annual
precipitation
is projected to
increase
by approximately
4-6% by the 2020s*
and 8-12% in
the 2050s

40% more
freezing rain
events by the 2050s in
December, January
and February

Warmer Winters

The monthly average temperature in
February in the 2050s is expected to be
3-5°C higher than it is today, meaning it
will hover around 0°C

*baseline period ("current"): 1990s (1981-2010), projection periods: 2020s (2011-2040), 2050s (2041-2070), 2080s (2071-2100)

Localized Climate Projections for Waterloo Region were prepared by the Interdisciplinary Centre on Climate Change at the University of Waterloo (Cadel, A., S. Brown, C. Fletcher, D. Scott, and J. Thistlethwaite, 2015)

Infographic design: michelletheillustrator.com

Full report available at
www.uwaterloo.ca/climate-centre/

Prepared for:

