



Climate Change Projections

Key findings from the Climate Change and Health Vulnerability Assessment for Waterloo Region, Wellington County, Dufferin County, and the City of Guelph



Climate change is a global issue with local impacts. Local weather is expected to get **warmer, wetter, and more extreme.**

Rising temperatures



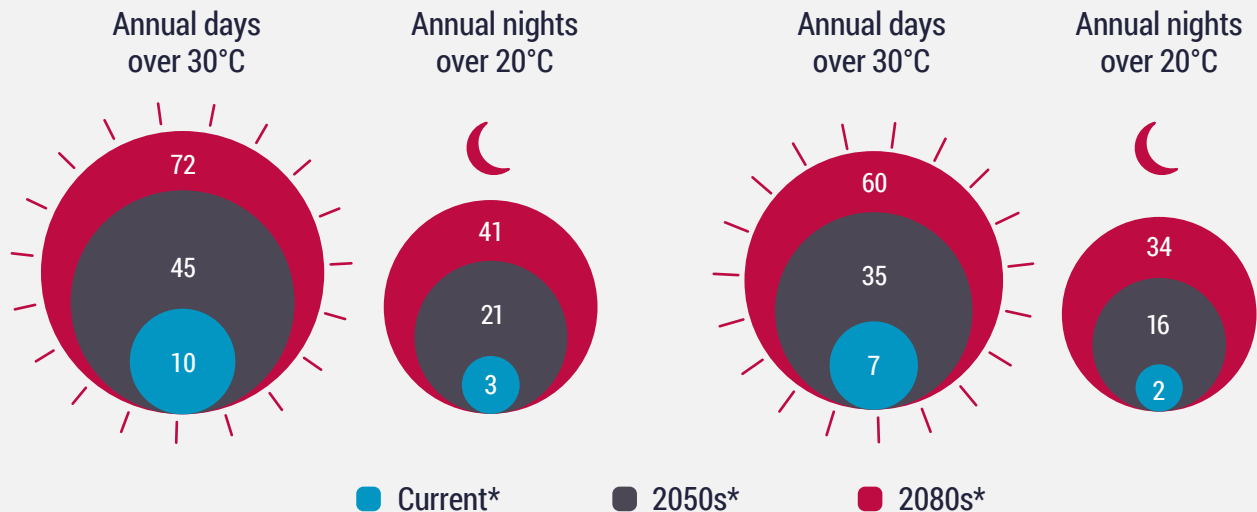
More extreme heat and extended heat waves

Temperatures are projected to increase

+5°C by the 2080s

Waterloo Region

Wellington-Dufferin-Guelph



Annual days below -15°C



* Projections are based on emissions scenario RCP8.5

* Baseline and projection periods: current baseline 1990s (1981-2010), 2050s (2041-2070), 2080s (2071-2100)

More extreme precipitation

Precipitation events will increase in frequency, duration, and intensity.



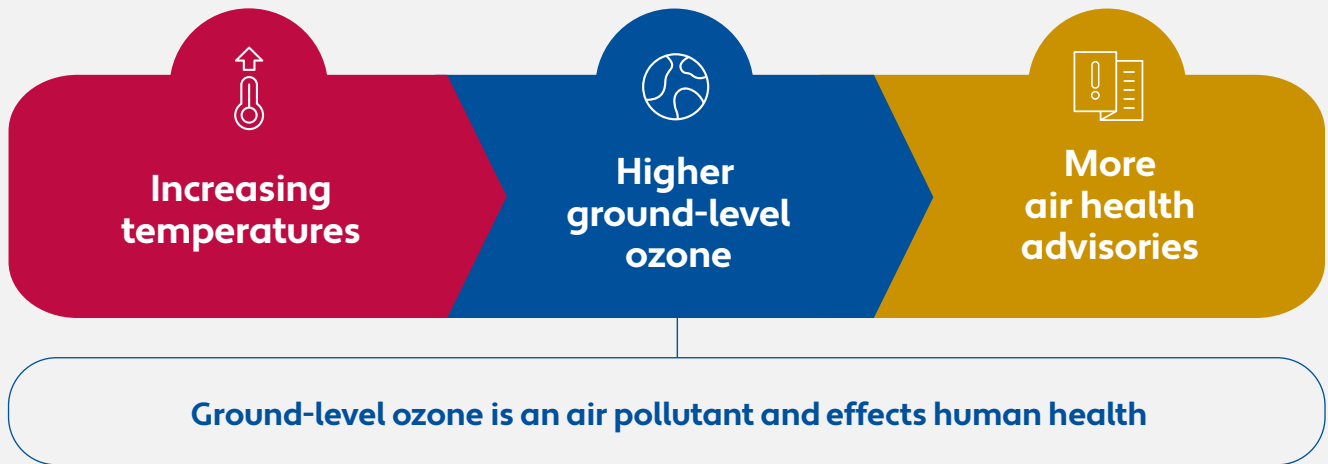
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More intense precipitation events
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More flooding
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More freezing rain and flash freeze events
30% increase in severe freezing rain events by 2100*

Reduced air quality



Increasing temperatures → **Higher ground-level ozone** → **More air health advisories**

Ground-level ozone is an air pollutant and effects human health



Local adaptation planning is needed to build resilience for those most vulnerable.

* Projections are based on emissions scenario RCP8.5

To view the full report or to request an alternate format of this document, please contact:



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