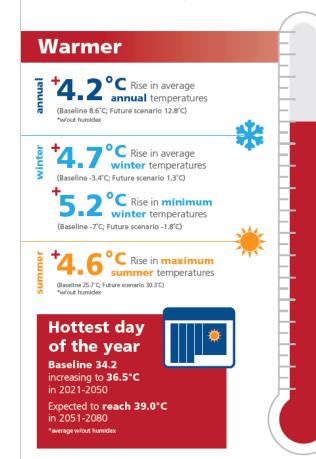
Climate Projections Report Infographics

Climate Projections

Baseline of 1976-2005 compared to future time-frame 2051-2080 under high emission scenario (RCP8.5)

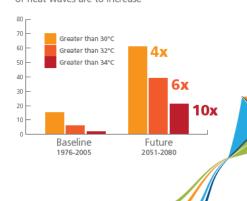


Hot season almost doubled

(Baseline 70.5 days; Future scenario 123.7 days)

Heat alerts and Heat waves

Annual number of and average length of heat waves are to increase



Wetter

Increase in heavy precipitation days over 10 & 20mm



Increased intensity, duration and frequency (IDF) of precipitation events

Windier and Wilder

Increase in wind gusts over 70 & 90 km/hr

the threshold at which Environment Canada would issue a **High Wind Warning** in Ontario

Freezing rain

to increase in winter months

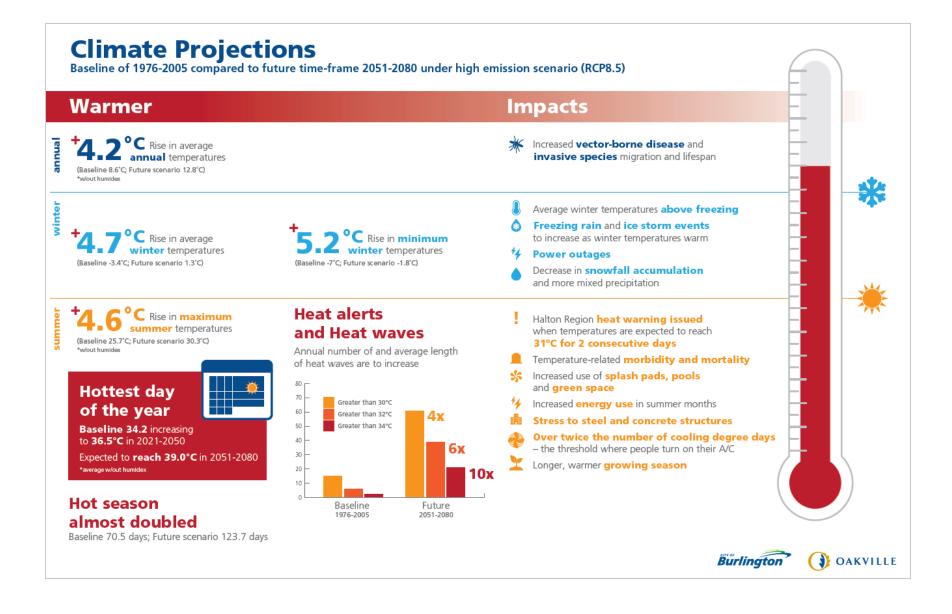


Fluctuating great lakes levels

Increased **thunderstorm activity** with increased temperatures







Climate Projections

Baseline of 1976-2005 compared to future time-frame 2051-2080 under high emission scenario (RCP8.5)

Wetter

Increase in average annual precipitation by ~10%

Increase in both spring and winter precipitation by ~17%

Increase in **heavy** precipitation days over 10 & 20mm

Increased intensity, duration and frequency (IDF) of precipitation events

Impacts

Public and private property flooding

Increased erosion and overland runoff = decrease in water quality

Fast-moving rivers and creeks = safety risks

Harbour capacity and operational impacts



Windier and Wilder

Increase in wind gusts over

the threshold at which Environment Canada would issue a High Wind Warning in Ontario

Freezing rain events to increase by 45%

with rising temperatures

Fluctuating great lakes levels

Increased thunderstorm activity

with increased temperatures



- Decrease in canopy cover
- Tree stress
- Creek and roadway blockages
- Power outages
- Personal injury
- Easterly winds cause increased Lake Ontario wave action and water levels causing shoreline flooding and damage











