



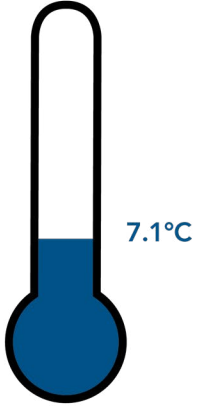
Climate Trends for Durham Region

Under a very high emissions scenario or fossil-fueled development scenario

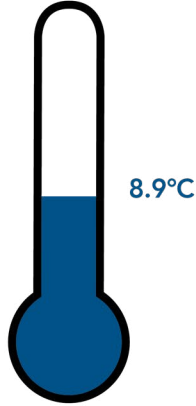
Mean Temperature

Annual mean temperature is projected to increase by **6.4°C** by the end of the century.

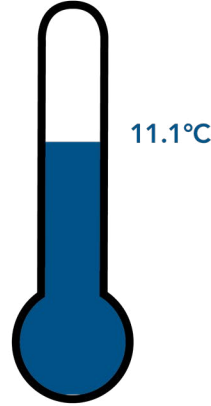
1971-2000



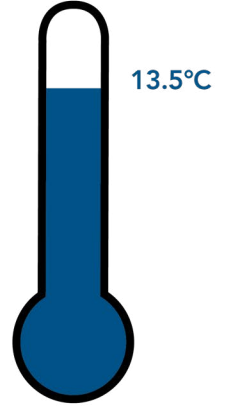
2011-2040



2041-2070



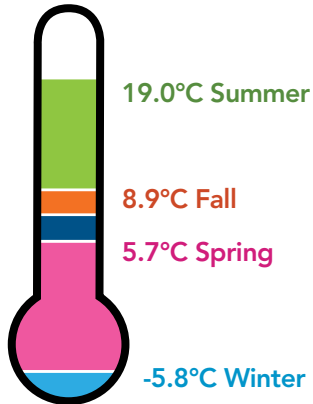
2071-2100



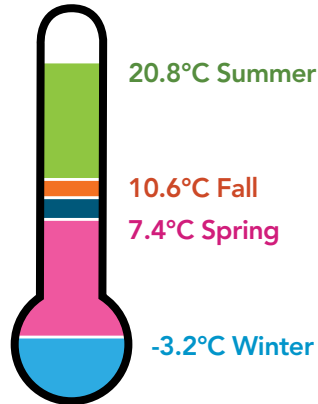
Seasonal mean temperatures

Seasonal mean temperatures are all projected to increase throughout the century with the most pronounced change expected for winter.

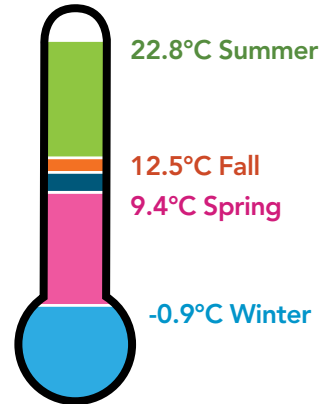
1971-2000



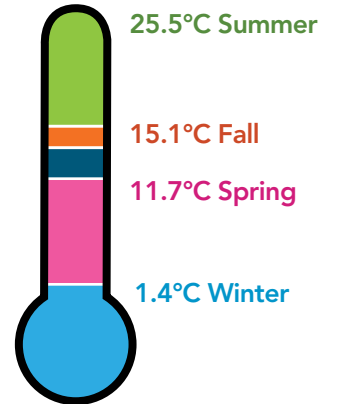
2011-2040



2041-2070

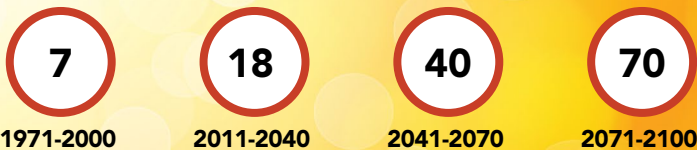


2071-2100



Temperature Extremes

Days Above 30°C



1971-2000

2011-2040

2041-2070

2071-2100

A "6-fold" increase in the number of extreme heat days is expected by the end of the century, which will pose significant risks to people's health and well-being.

Days Below -15°C



1971-2000

2011-2040

2041-2070

2071-2100

As winters become warmer, less snow and ice conditions are expected with more precipitation falling as rain instead of snow, which increases the risk of flooding among other impacts



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Freeze-thaw Cycles (days)

Freeze-thaw cycles are projected to decrease by **21 days** due to overall warmer temperatures.



1971-2000



2011-2040



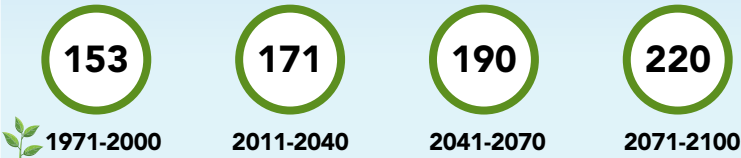
2041-2070



2071-2100

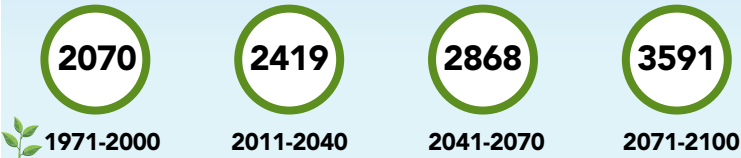
Other Climate Variables

Growing Season (days)



First frost dates are projected to be later, and last frost days will be earlier, extending the annual growing season by **67 days**.

Growing Degree Days



By 2100, growing degree days are projected to increase by **1521 GDD**.

Annual mean precipitation

Measured in millimetres (mm)

Annual total precipitation is projected to increase by **147 mm** by the end of the century.



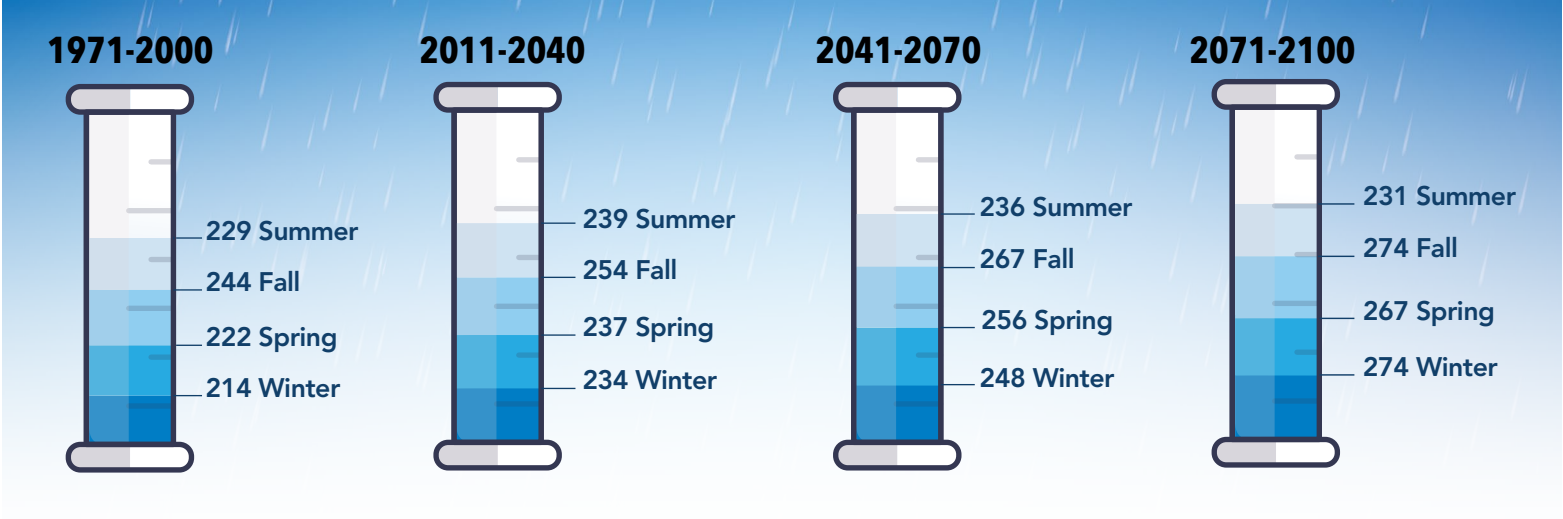


Climate Trends for Durham Region

Under a very high emissions scenario or fossil-fueled development scenario

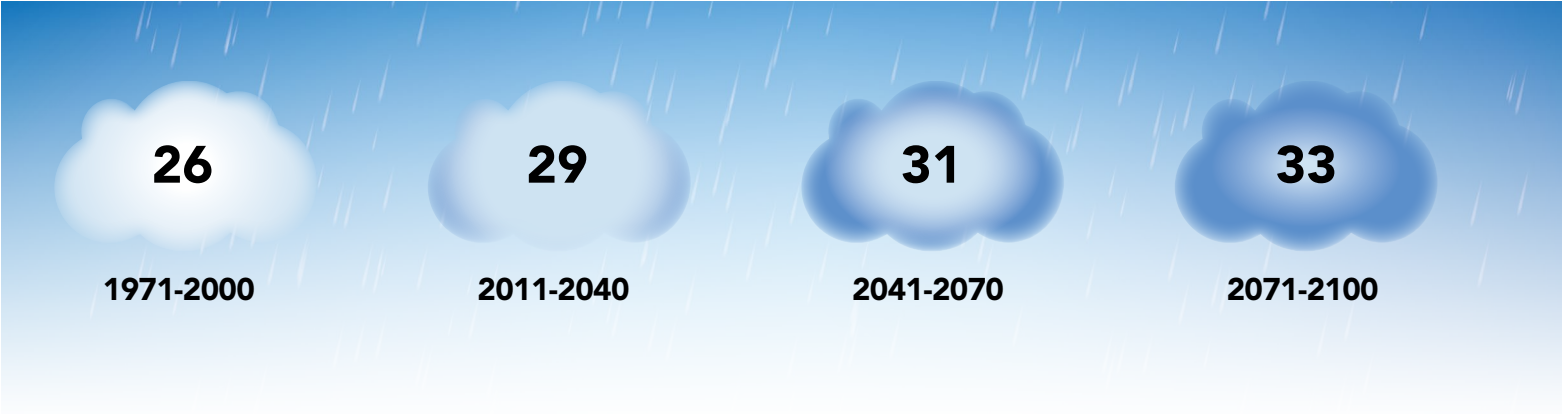
Seasonal mean precipitation

Seasonal mean precipitation is projected to increase in every season, however summer's trend is less pronounced and returns to its baseline level by end of century.



Heavy Rainfall Days

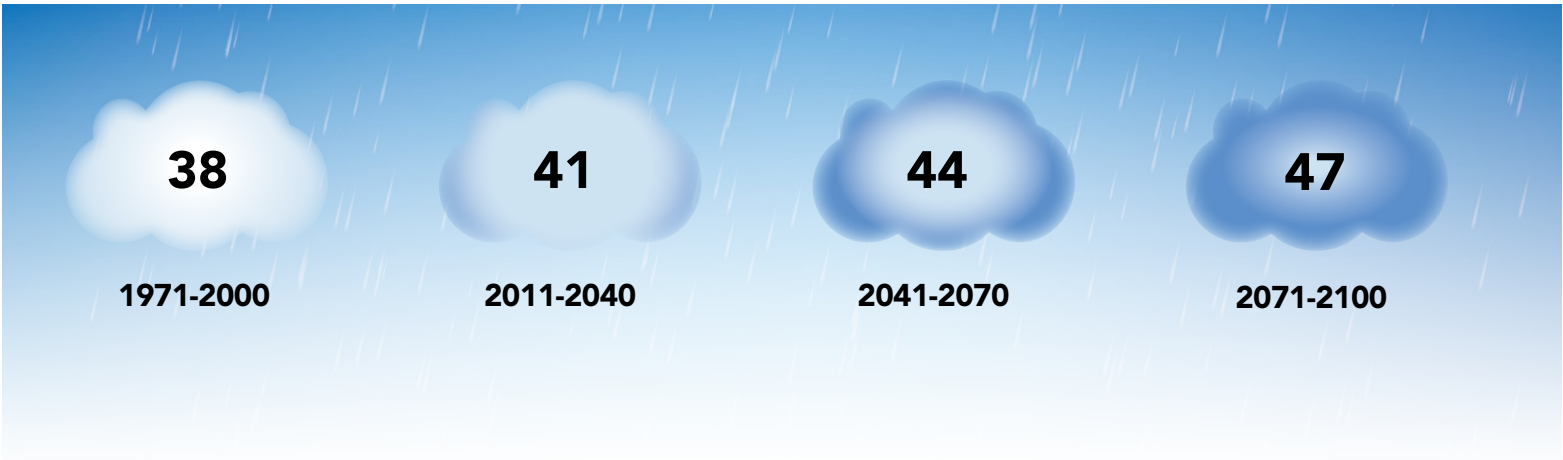
Wet days, or **days with over 10mm** of precipitation, are projected to increase.



Max 1-day precipitation

Measured in millimetres (mm)

The amount of maximum precipitation that falls in a single day is projected to increase.

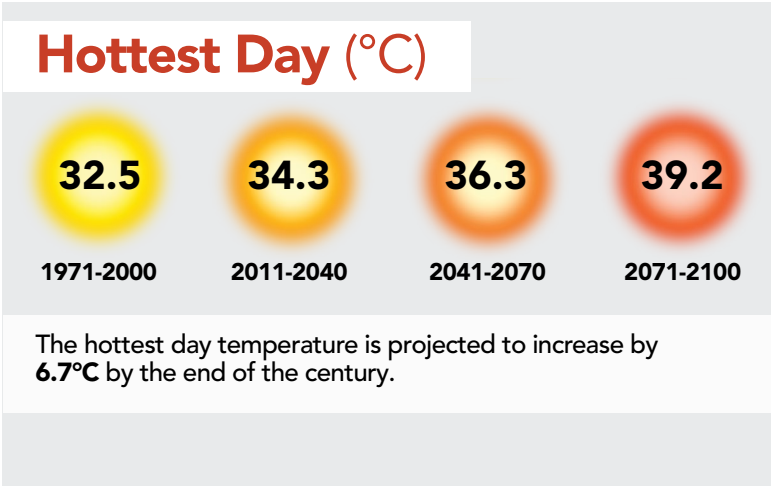
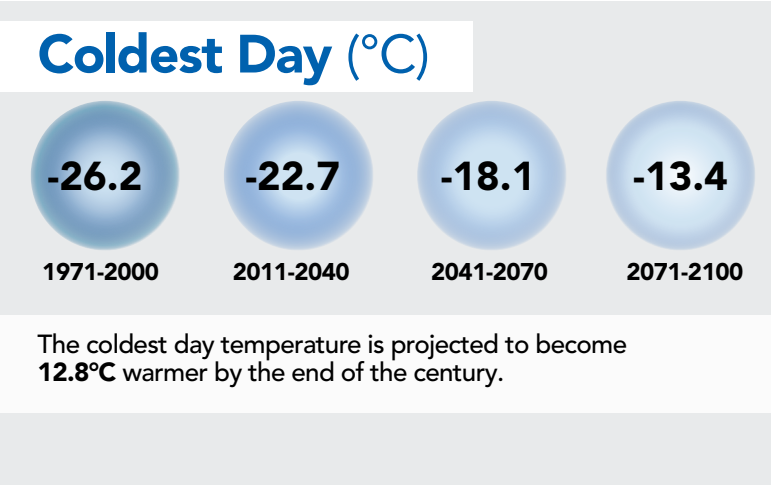




Climate Trends for Durham Region

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Temperature demand changes



Heat hazards

