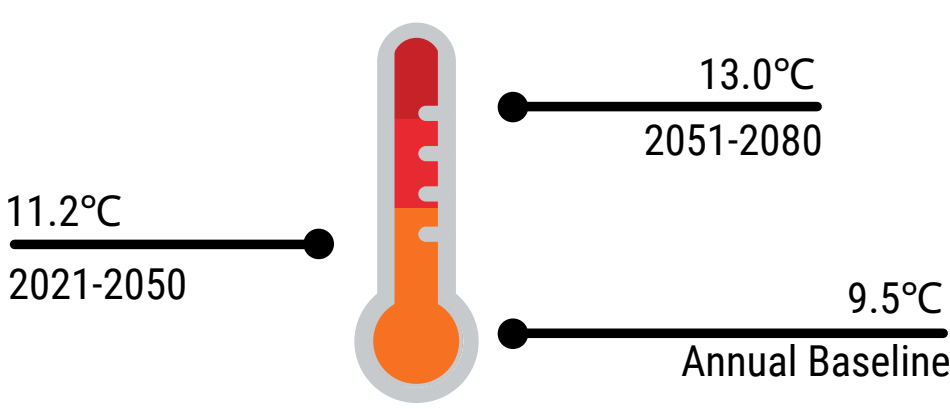


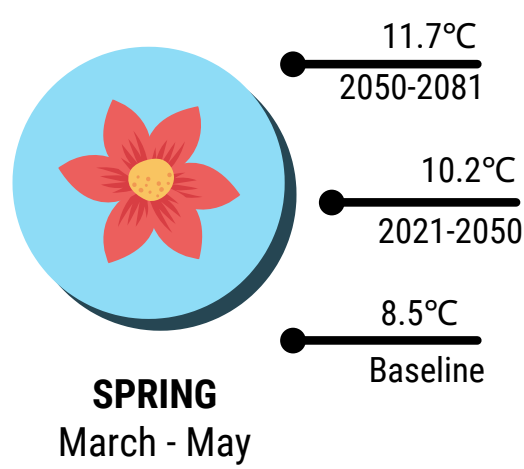
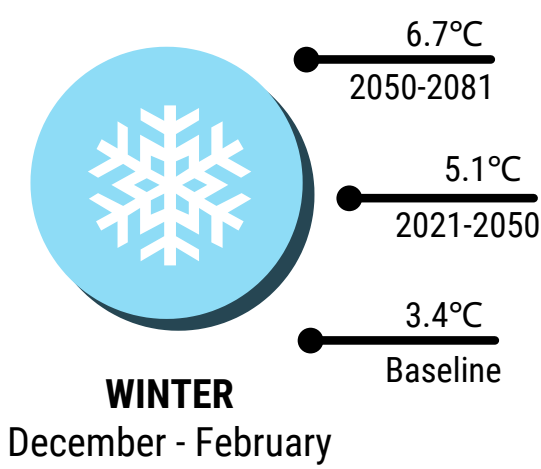
# Sunshine Coast Regional District FUTURE CLIMATIC PROJECTIONS

December 2021

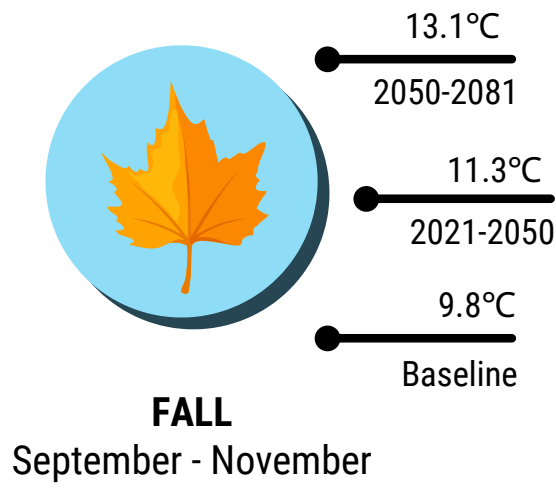
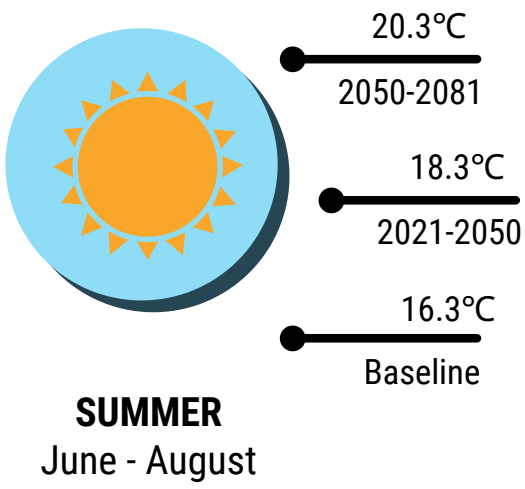


## ANNUAL MEAN TEMPERATURES

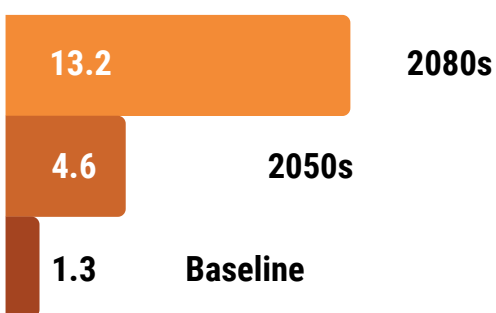
Mean temperatures are projected to increase annually and in every season.



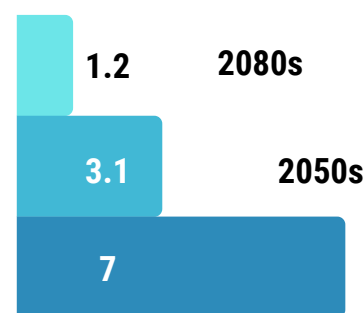
## SEASONAL MEAN TEMPERATURES



## Days Above 30°C



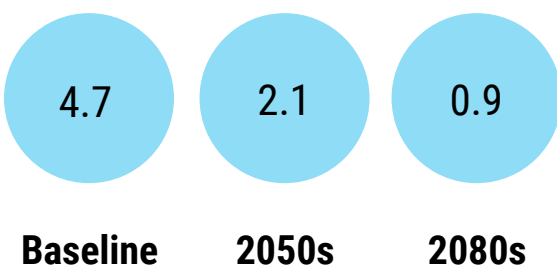
## Days Below -5°C



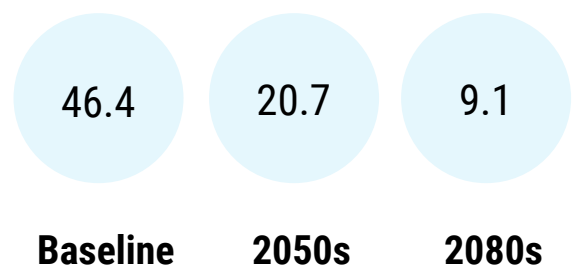
## TEMPERATURE EXTREMES

More hot days, less cold days expected.

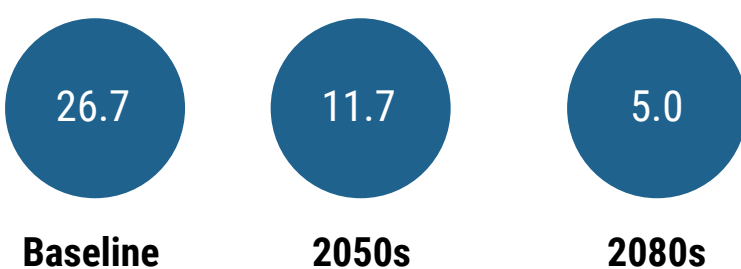
## Icing Days



## Frost Days

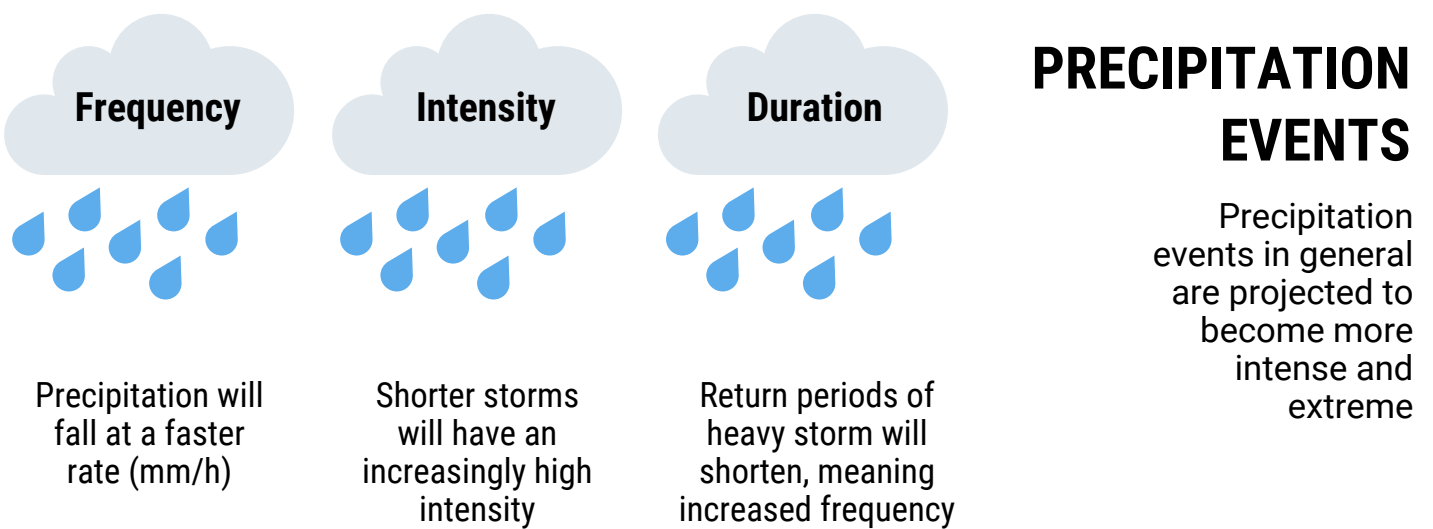
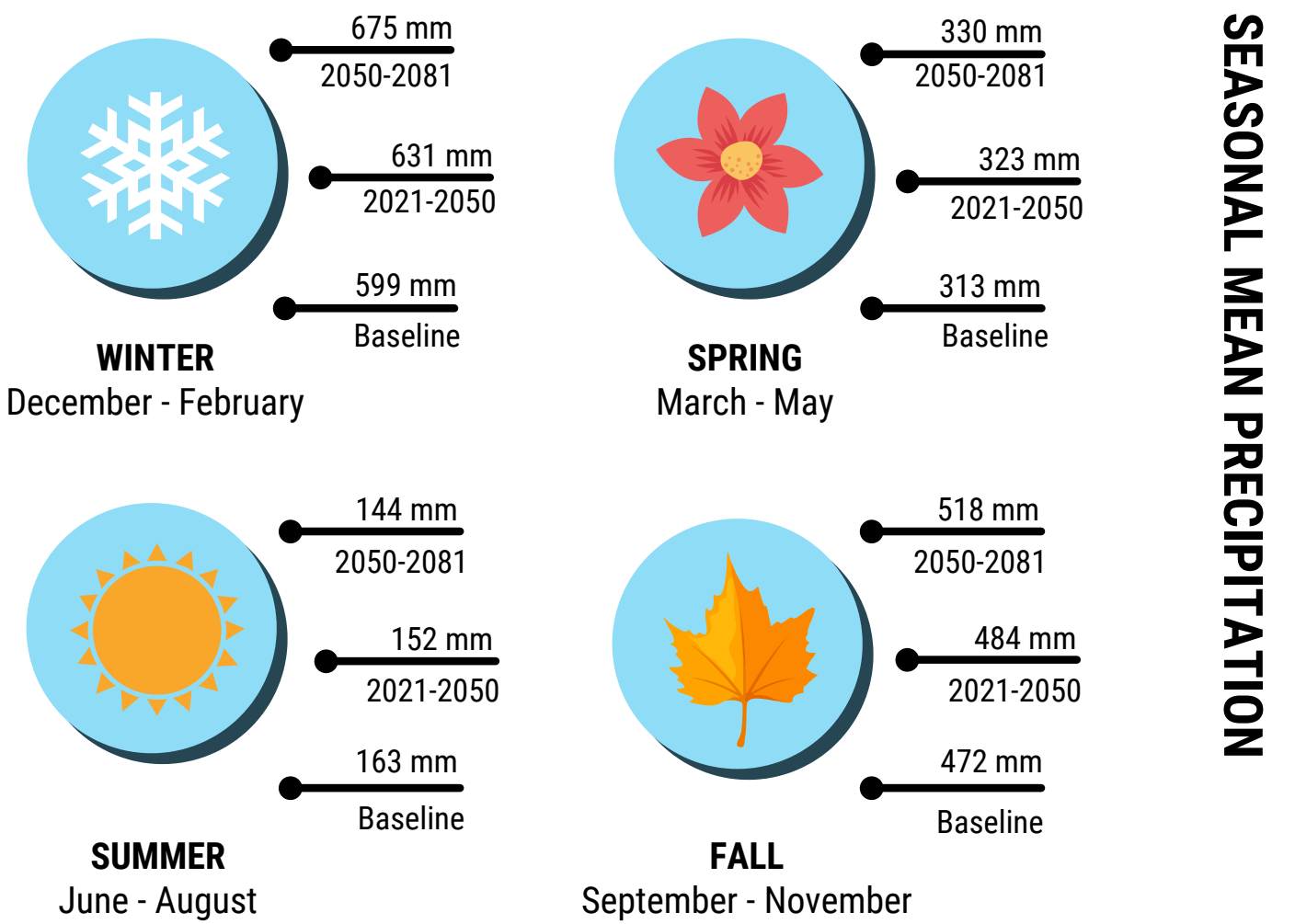
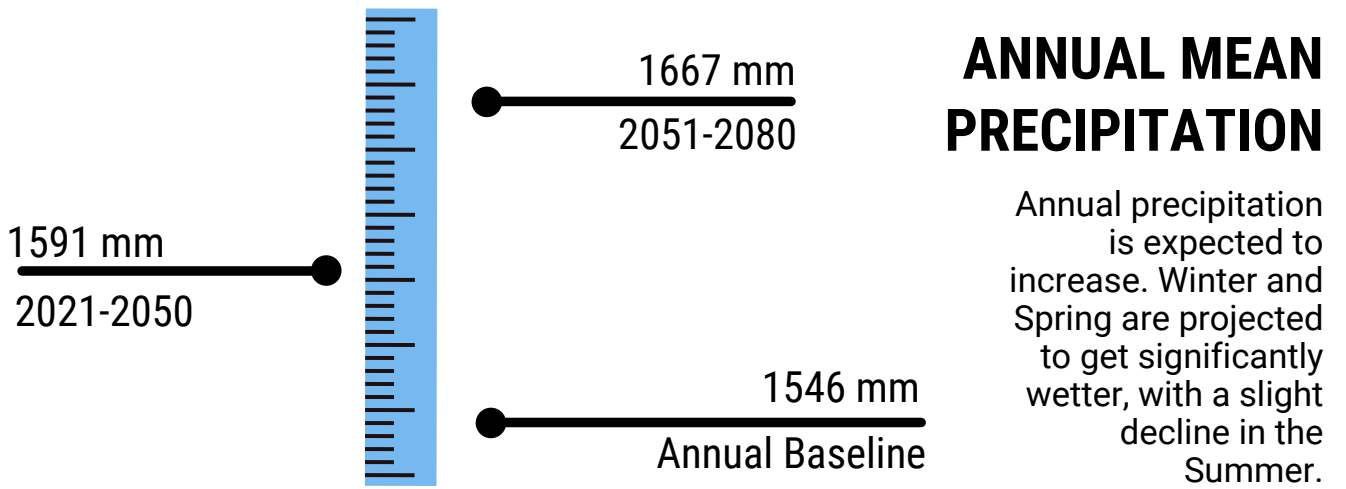
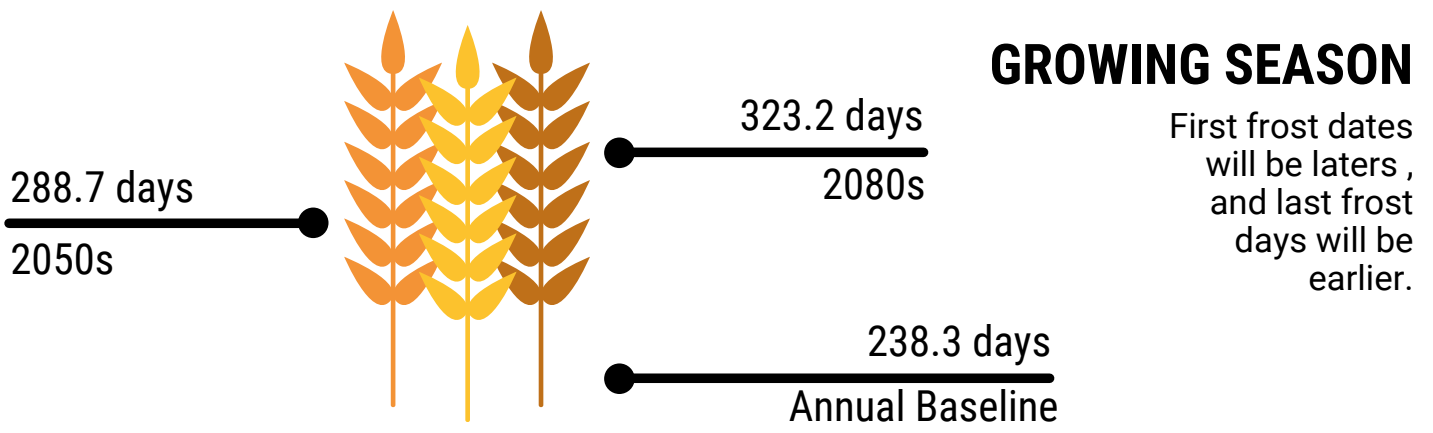


## Annual Mean Freeze-Thaw Days

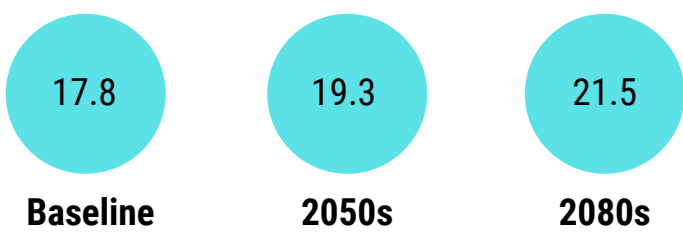


## FREEZE-THAW CYCLES

There will be a decrease in freeze-thaw cycles, where the daily max. temperature is higher than 0°C and the daily min. temperature is less than or equal to -1°C



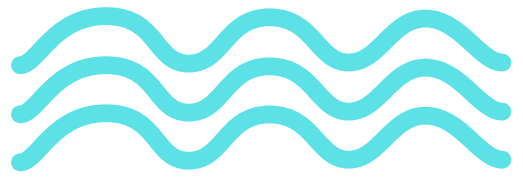
**Days with precipitation over 20mm**



Days with precipitation over 10mm and 20mm are considered Heavy Rainfall days, and are projected to increase.

# Sea Level Rise

The IPCC *Special Report on the Ocean and Cryosphere in a Changing Climate* estimates that sea level rise could increase as much as 15 cm/year by 2100 or an increase of 0.61-1.1m relative to a 1984-2005 baseline



The British Columbia Ministry of Environment suggests preparing for 0.5 m by 2050, and 1.0 m by 2100

---

\* Baseline period: 1990s (1976-2005); Projection periods: 2030s (2021-2050), 2060s (2051-2080)

Sources:

Canadian Climate Data and Scenarios Network.

Climate Atlas of Canada Tool.

IPCC Special Report on the Ocean and Cryosphere in a Changing Climate