WHAT DO CLIMATE PROJECTIONS MEAN FOR US?

POSSIBLE CHANGES TO HEAT, RAINFALL AND WEATHER PATTERNS.

CLIMATE READY
HUME

ABOUT OUR POSSIBLE FUTURE CLIMATE

Our climate is changing now - future changes can be modelled using greenhouse gas levels.

Climate change scenarios are 'possible futures' and not predictions – they help us make decisions on how we live and how to reduce our impact on the planet.

Possible future scenarios for temperature and rainfall are created using many different models and compared with known local environmental conditions.

Wind and rainfall levels are harder to model. Changes to temperature and seas level rise are more accurate.

This possible future is based on ongoing high greenhouse gas emissions.

VICTORIA
State Government

2020-2039

HOW MUCH HOTTER WILL IT BE?

Normal days will be 0.7 – 1.9°C hotter than now on average.

Night temperatures will be warmer by about 0.9°C.

HOW MANY VERY HOT DAYS WILL WE GET A YEAR?

Currently the average number of days per year over 35°C for Shepparton is 14.8, and may increase to 22. The current number of days for Wodonga is 20.5 and may increase to 30.

HOW MUCH RAINFALL WILL WE RECEIVE?

Rainfall is one of the hardest changes to measure. Victoria may have 20% less rainfall annually.

Greatest changes in rain may be in spring.

WHAT WILL EXTREME RAINFALL EVENTS BE?

Less rainfall means a dryer climate adding to hotter (extreme) days more often.

Clouds can hold more rain at higher temperatures.

Heavier downpours, more rain during one storm or rain event, with long periods of no rain in-between.

Rainfall will be more scattered and less predictable.

2040-2059

HOW MUCH HOTTER WILL IT BE?

Normal days will be 1.3 – 3.1°C hotter than now, especially during summer months.

Night temperatures will be about 1.6°C warmer.

HOW MANY VERY HOT DAYS WILL WE GET A YEAR?

Average number of days per year over 35°C will increase to 30 days for Shepparton and 44 days for Wodonga, double the amount of hot days currently.

HOW MUCH RAINFALL WILL WE RECEIVE?

North East Victoria may have 20% less rain annually. Less rain may fall in spring and winter, with more summer storms instead.

WHAT WILL EXTREME RAINFALL EVENTS BE?

Less rainfall means a dryer climate adding to hotter (extreme) days more often.

Heavier downpours, more rain during one storm or rain event, with long periods of no rain in-between.

Rainfall will be more scattered and less predictable.

2080-2099

HOW MUCH HOTTER WILL IT BE?

Normal days will be 2.8 – 6.5°C hotter than now, especially during summer months.

Night temperatures will be warmer by about 3.3°C.

HOW MANY VERY HOT DAYS WILL WE GET A YEAR?

Average number of days per year over 35°C will increase to 50 days for Shepparton and 65 for Wodonga.

HOW MUCH RAINFALL WILL WE RECEIVE?

Less rain may fall in spring and winter, with more summer storms instead – 30% less rainfall on average. Mountain regions may have higher rainfall compared to the valleys and plains.

WHAT WILL EXTREME RAINFALL EVENTS BE?

Less rainfall means a dryer climate adding to hotter (extreme) days more often.

Heavier downpours, more rain during one storm or rain event, with long periods of no rain in-between.

Rainfall will be more scattered and less predictable. Hourly and daily rainfall averages may increase. More intense winds may be experienced.