

WHAT WILL A LOWER EMISSIONS FUTURE LOOK LIKE?

POSSIBLE CHANGES TO CLIMATE AND WEATHER PATTERNS IN THE GOULBURN AND OVENS MURRAY REGIONS



ABOUT OUR POSSIBLE FUTURE CLIMATE

Our climate is changing now. Future changes are modelled using different amounts of greenhouse gas emissions to see how these changes may impact us.

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 sea level rise are more accurate.

The scenarios shown here are based on a future if we lower our emissions.



2020 - 2039

HOW MUCH HOTTER WILL IT BE?

On average, normal days will be between 0.6-1.6°C hotter than now.

Night temperatures will be about 0.8°C warmer.

HOW MANY VERY HOT DAYS WILL WE GET A YEAR?

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

HOW MUCH RAINFALL WILL WE RECEIVE?

Rainfall is one of the hardest changes to measure. North East Victoria may have 12% less rainfall annually. Greatest changes in rain may be in spring.

2040- 2059

HOW MUCH HOTTER WILL IT BE?

Normal days will be 0.9-2.3°C hotter than now, especially during summer months.

Night temperatures will be about 1.3°C warmer.

HOW MANY VERY HOT DAYS WILL WE GET A YEAR?

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

HOW MUCH RAINFALL WILL WE RECEIVE?

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

2080 - 2099

HOW MUCH HOTTER WILL IT BE?

Normal days will be 1.3-4.3°C hotter than now, especially during summer months.

Night temperatures will be about 1.9°C warmer.

HOW MANY VERY HOT DAYS WILL WE GET A YEAR?

The average number of days per year over 35°C will increase to 26 days for Shepparton and 35 days for Wodonga: just 9 days less than a high emissions future.

HOW MUCH RAINFALL WILL WE RECEIVE?

North East Victoria may have up to 30% less rain annually. Less rain may fall in spring and winter, with more summer storms instead. The mountain areas may get more rain than the valleys and plains.

WHAT WILL EXTREME RAINFALL EVENTS BE?

Rainfall levels are harder to model but we do know that extreme, short-duration rainfall events in Victoria are becoming more frequent. We can expect heavier downpours than we get now and more rain during a storm or rain event, with long periods of no rain in-between.

Storms in summer are expected to become more intense. Storms in autumn and winter might see little change.

The downpours will be more intense and rain less frequent if we follow a higher emissions future.

