

# Projected changes Australian Capital Territory

## Low-emissions scenario

Average temperature increase

↑ **1.1°C**  
2050

↑ **1.2°C**  
2090



Hot days per year will increase by:

**2.6**    **3.2**  
2050    2090



Cold nights per year will decrease by:

**19.1**    **22.3**  
2050    2090



Average rainfall will decrease by:

**8.7%**    **9.9%**  
2050    2090

## High-emissions scenario

Average temperature increase

↑ **1.8°C**  
2050

↑ **3.7°C**  
2090



Hot days per year will increase by:

**5.3**    **12.8**  
2050    2090



Cold nights per year will decrease by:

**32.4**    **67.7**  
2050    2090



Average rainfall will decrease by:

**13.9%**    **12.9%**  
2050    2090

## Regional impacts

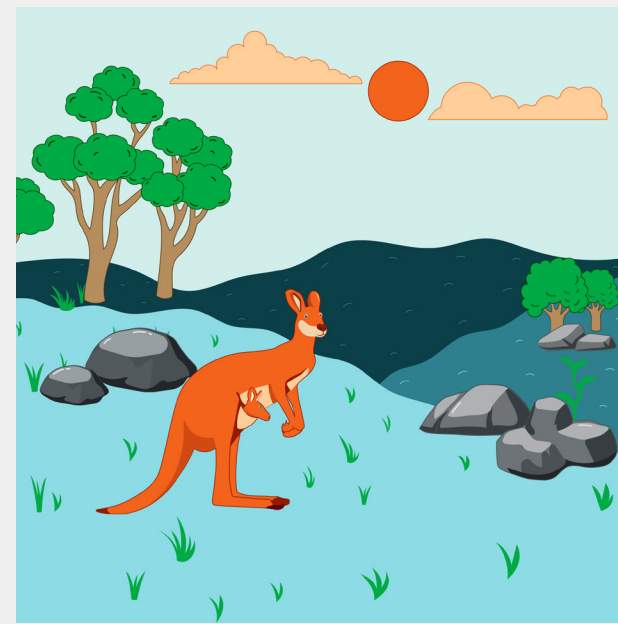


### Canberra

Increased extreme heat

### Bushland

Increased temperatures



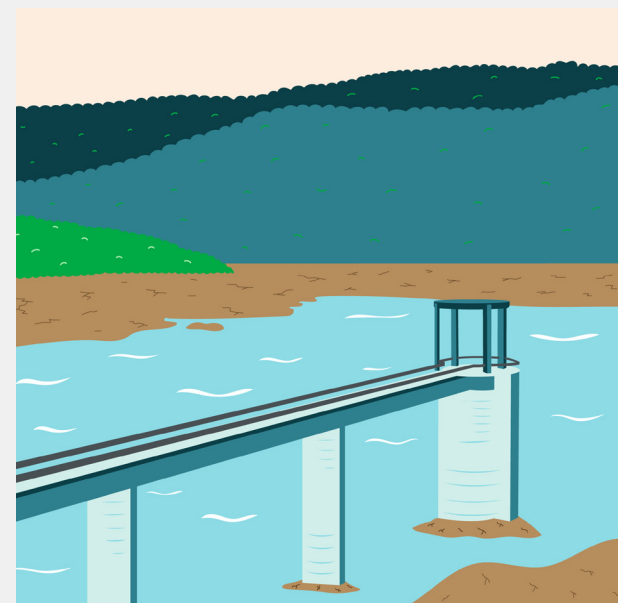
Increased severe fire weather

### Urban fringe



Changes to rainfall

### Water supply



Data is based on NARClIM2.0 (2024) projections for SSP1-2.6 (low-emissions) and SSP3-7.0 (high-emissions) and is presented relative to the historical climate baseline of 1990–2009. The projections for 2050 represent averaged data for 2040–2059 and projections for 2090 represent averaged data for 2080–2099. Values presented are averages across the NARClIM2.0 model ensemble, and do not represent the full range of plausible climate futures. Regional climate change impacts are used to highlight how the region is likely to be affected by climate change, and impacts are not limited to the examples provided.