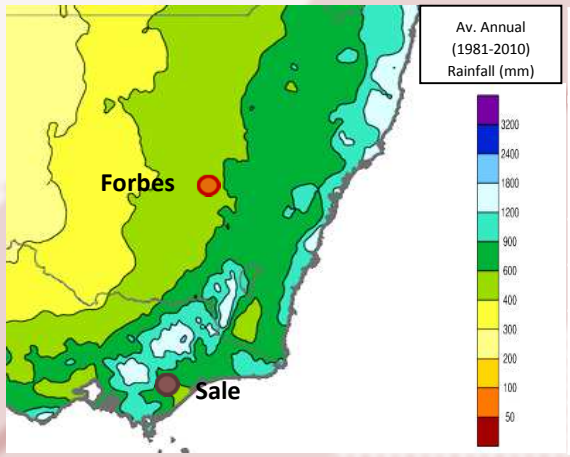
Forbes: A Climate Analogue Town for **Sale** for the Year **2090**

Southern Slopes Climate Change Adaptation Research Partnership

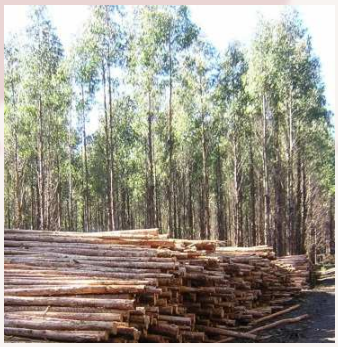
Analogue based on the maximum consensus of models, based on CMIP5, for the year 2090 and a high emissions scenario, (RCP 8.5). Information developed using the CSIRO Climate Change in Australia Analogue Explorer Tool

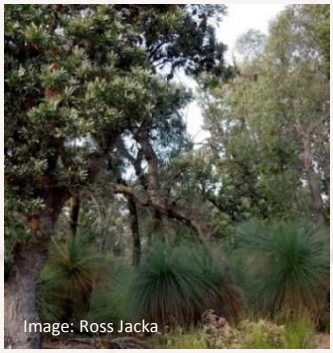
Forbes (NSW)



Season	Mean Max. Temperature C⁰			Mean rainfall (mm)		
	Sale (current)	Sale (projected 2090)*	Forbes (current)	Sale (current)	Sale (projected 2090)*	Forbes (current)
Spring	19.5	23.2	23.8	174.1	132.7	141.3
Summer	25.1	28.9	32.3	148.8	134.7	148.8
Autumn	20.6	24.2	24.3	150.2	151.8	124.0
Winter	14.8	17.8	15.5	126.1	114.9	133.9
ANNUAL	**20.0**	**23.5**	**23.9**	**599.2**	**534.1**	**536.5**

Sale (Eastern Victoria)





*This analogue has been further refined to include projected seasonal changes. It assumes an average rainfall decline across the Southern Slopes Region of 11% and average temp. increase of 3.5 C⁰, based on data from the Climate Futures Tool. For Forbes, current mean spring & autumn temp. is within +/- 1⁰C and average annual rainfall is within +/-7% respectively of this future scenario for Sale.

Analogue Logic

Information above was developed using the CSIRO Climate Change in Australia Analogue Explorer Tool* and the Climate Futures Tool

The above analogue is based on the average annual rainfall and temperature in the year 2090, maximum consensus of models (CMIP5) and a high emissions scenario (RCP 8.5). Global GHG emissions are currently tracking at the IPCC's RCP 8.5 scenario that leads to the most warming. To gain insight into other potential analogue towns for Sale, (which assumes we achieve the more ambitious target of limiting warming to between 1.1°C to 2.6°C degrees by 2100), run the Analogue Explorer Tool using the RCP 4.5 scenario. This scenario is considered as an achievable, intermediate mitigation scenario where GHG emissions peak earlier (around 2040) and the CO_2 concentration reaches 540 ppm by 2100.

Other analogue towns under a range of RCP's can be explored using the Analogue Tool

NOTE: variables such as seasonality, frost days & other local climate influences, radiation & soil types were not included in developing this analogue.

***RCP (Representative Concentration Pathways) are among those scenarios used in the IPCC Fifth Assessment Report (2013). The Maximum Consensus scenario was chosen. This is a scenario defined using the Climate Futures approach .**