



The CottonInfo Moisture Manager

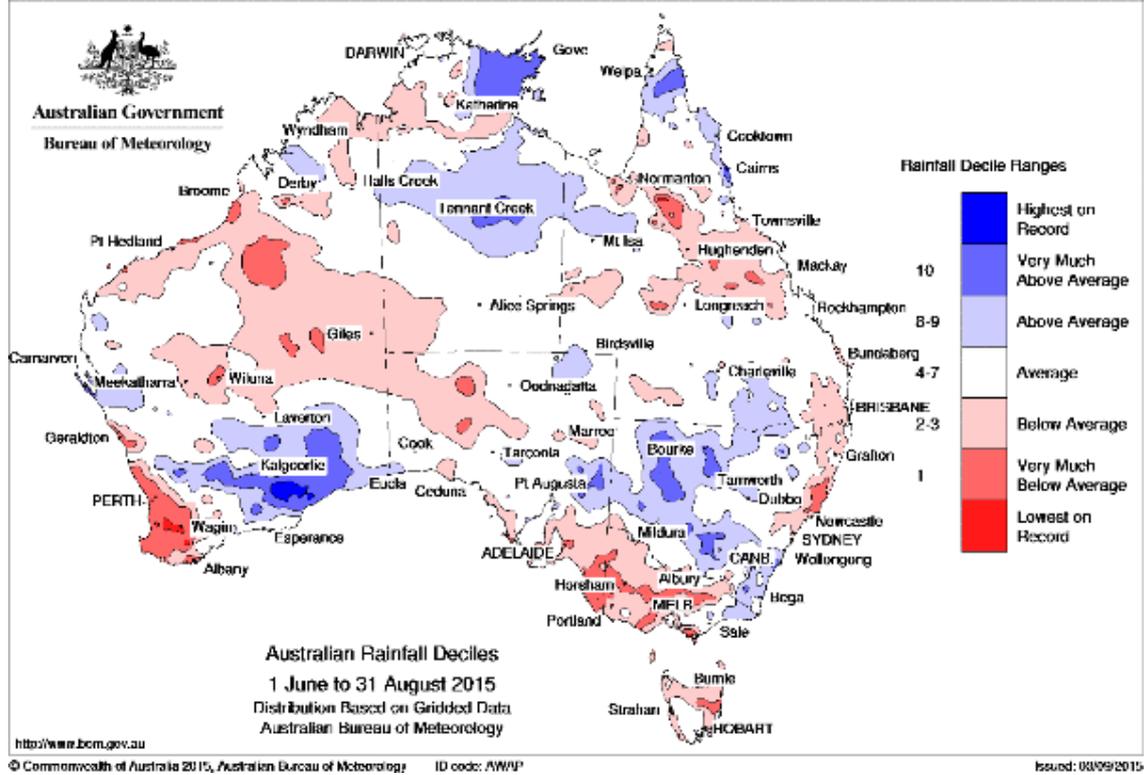
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Latest weather and climate news

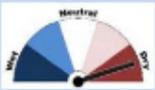
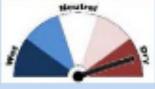
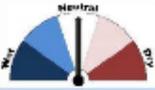
- Average maximum and above average minimum temperatures predicted for the next four weeks.
- The chance of a rain event in the second half of September for growing areas in NSW and Southern QLD.
- Southern Annular Mode and atmospheric blocking currently in neutral phase, contrary to the strong El Niño condition occurring in the Eastern Pacific Ocean.
- Latest BOM Streamflow outlook predicting high flows for areas of the Upper Lachlan, Gwydir and parts of the Upper Murrumbidgee catchments.
- Monitoring the Southern Annular Mode: a key driver of planting rainfall in cotton areas.

Australian winter rainfall deciles (June-August 2015)



Summary of climate indicators

For more information on what the climatic indicators mean, [click here](#).

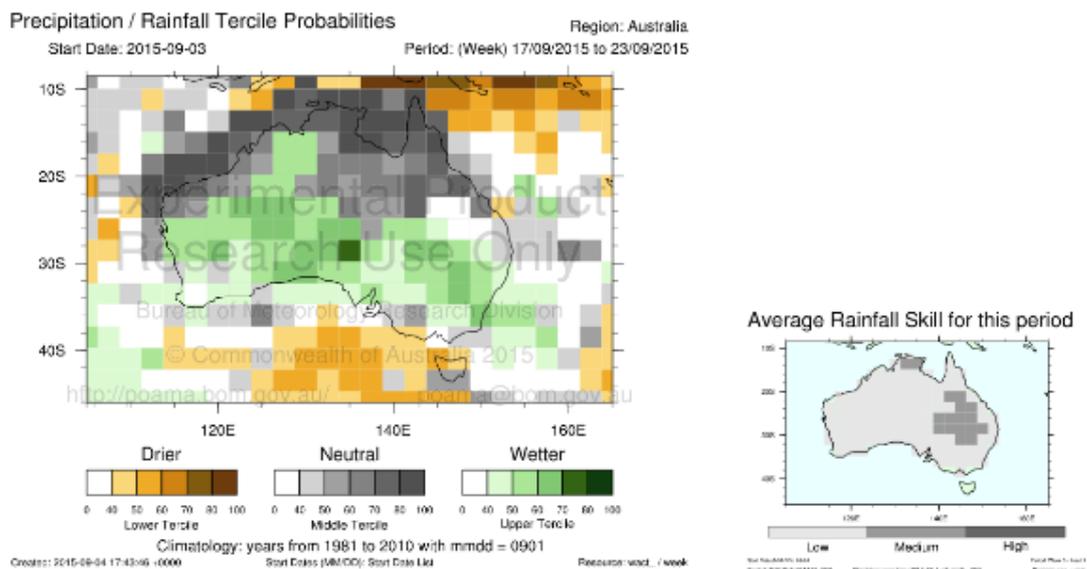
Measure	Indicator	Current Status	Forecast Trend
Sea Surface Temperature Indices 	Pacific Ocean – Niño 3.4	+2	 Dry
	Pacific Ocean – Composite Index	+0.5	 Dry
	Indian Ocean	+0.5	 Dry
Mean Sea Level Air Pressure 	Southern Oscillation Index	-14	 Dry/neutral
	Southern Annular Mode	0	 Neutral/wet
Tasman Sea Upper Atmospheric Air Pressure 	Blocking	0	 Neutral/wet

Rainfall and temperature guidance summary

Source	Model Accessed	Temperature Forecast	Precipitation Outlook
POAMA Multi-week(BOM)	6 September	Ave max temps Above ave min temps all areas	Rain event NSW & DD 17-23 Sept
Japan Met Assoc.	6 September	Average temps to 21 Sept Above Ave 21-30 Sept	No rain events forecast for Sept
Beijing Climate Centre	6 September	Average temps to 23 Sept Above Ave 23-30 Sept	No rain events forecast for Sept (Showing light rain event 27 Sept - 5 Oct)
NCEP (GFS) 16-Day	7 September	N/A	Emerald: no rain events forecast Balonne: no rain events forecast Darling Downs: no rain events forecast Border Rvs/Gwydir: no rain events forecast Namoi: light rain on 14/15 Sept Warren: no rain events forecast Hillston: light rain on 14 Sept Hay: rain through on 14 Sept

BOM/POAMA model

[BOM/POAMA](#) model output for 17-23 September shows a potential rain event for cotton areas in NSW and Southern QLD.



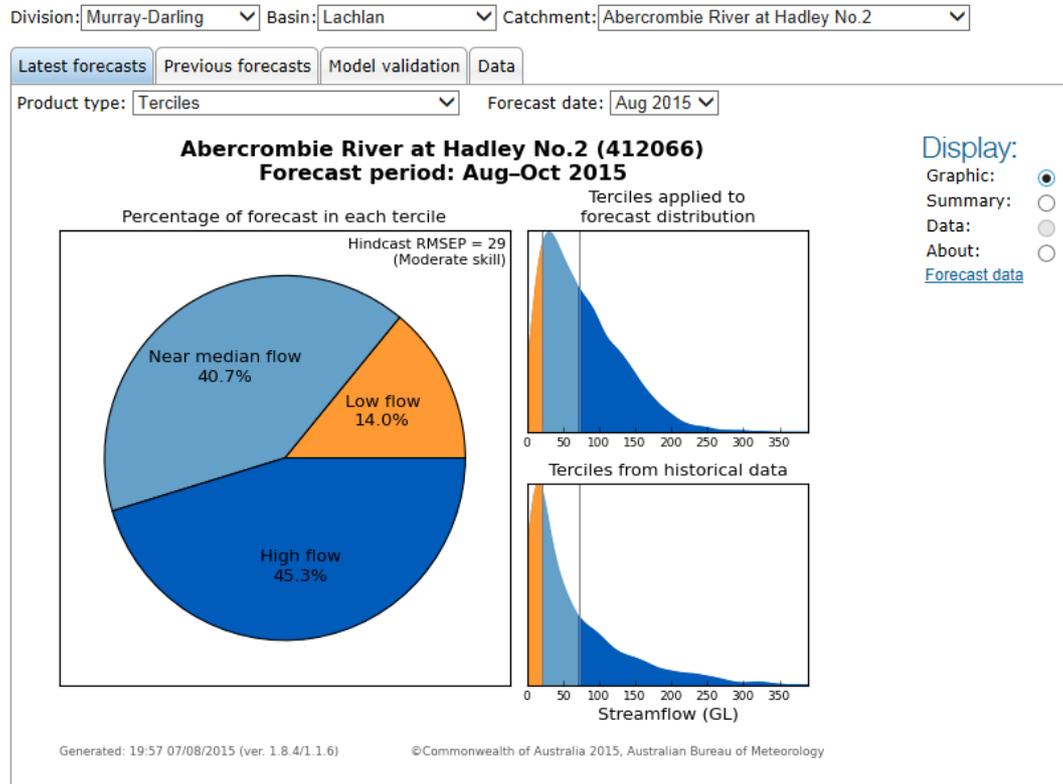
Seasonal streamflow forecast

Seasonal streamflow forecasts have the potential to help water managers and users make better-informed decisions on:

- seasonal water allocation outlooks
- reservoir operations
- environmental flow management
- water markets
- drought response strategies, including setting supply restrictions.

A sample streamflow forecast (below) for the upper Lachlan catchment (issued 28 August) shows a high probability of above median stream flow from Aug-Oct

Seasonal Streamflow Forecasts



Streamflow forecasts explained

Watch this short (two minute) youtube video to assist with interpreting streamflow forecasts:

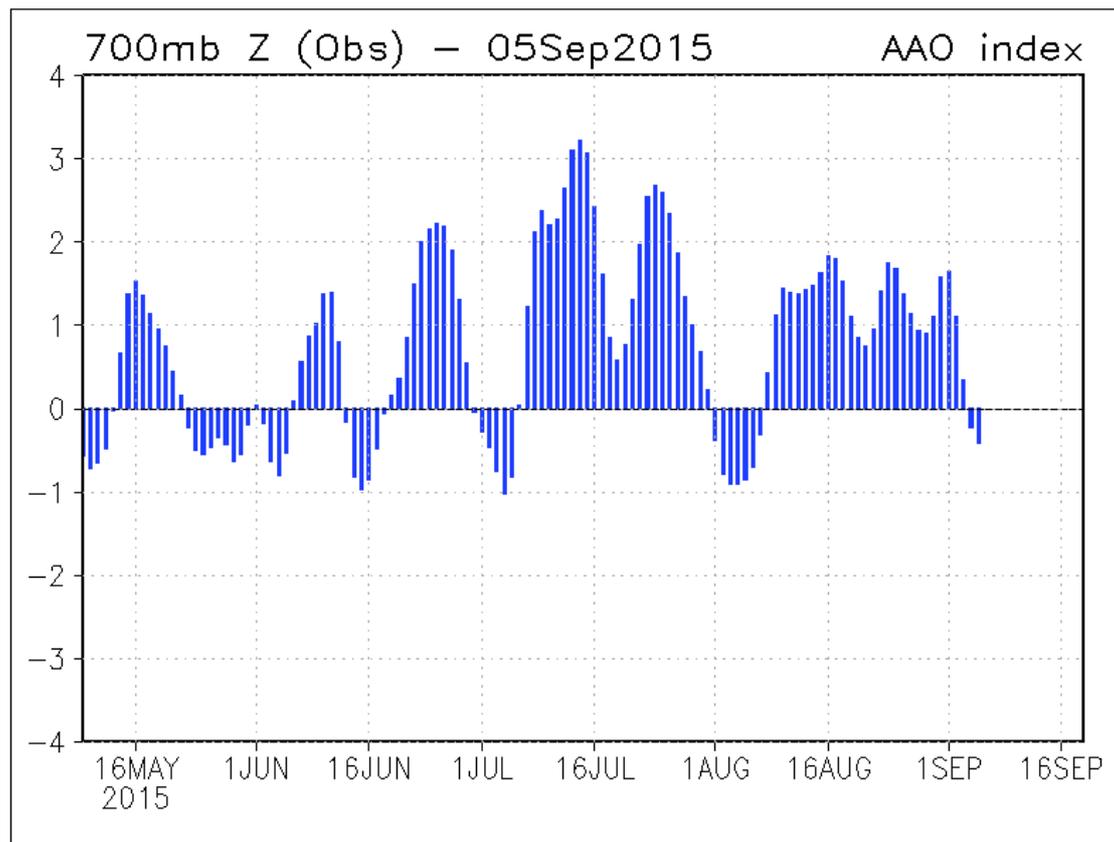


Monitoring the Southern Annular Mode: 2015 summer crop plant

Recent research by Hendon et al, (2014) at the Centre for Australian Weather and Climate Research found the Southern Annular Mode (SAM) to be the leading mode of circulation variability through parts of inland eastern Australia; particularly in the spring planting period.

A **positive SAM** has been proven to increase moisture supply into fronts and troughs forming in eastern Australia. The chart provided by the National Oceanic and Atmospheric Administration in the US shows observations of the SAM (or Antarctic Oscillation Index) in a strong positive phase during the southern hemisphere winter.

Growers and advisors are encouraged to monitor the phases of the SAM together with seasonal forecasting, multi-week and shorter term weather models during planting. Updated daily forecasts of the SAM index can be found [here](#).



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Best Practice

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