

# Crop Report

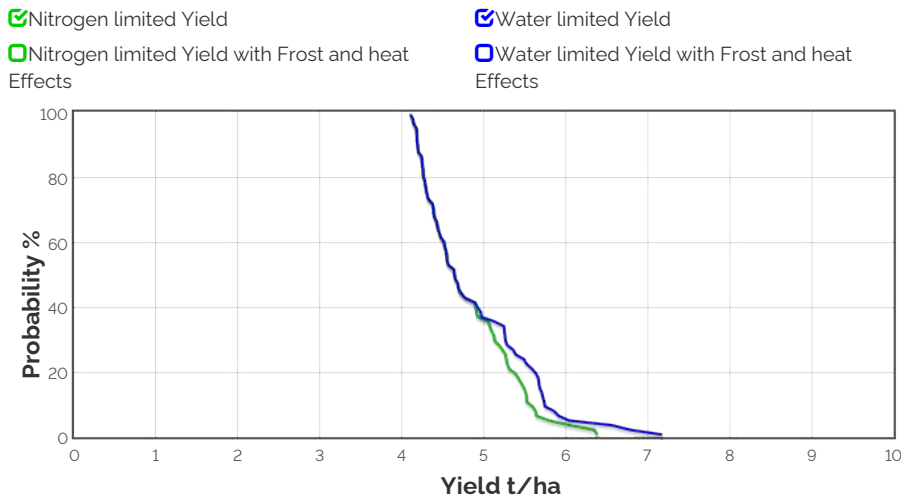
19-Sep-2025

Andrew H Ware:  
Cockaleeche

Crop: Wheat  
Cultivar: Scepter  
Sowing details: 200 plants/m<sup>2</sup> on 14-May  
Expected maturity date: 22-Nov

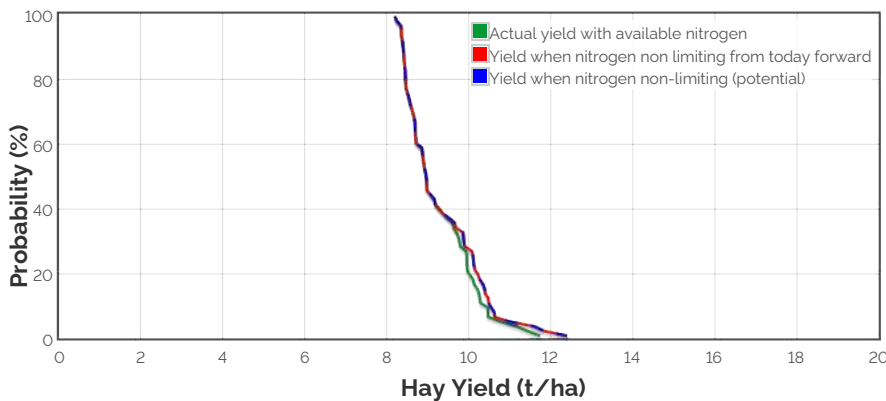
Paddock Details  
Initial conditions date: 9-May  
Soil: Clay Loam over Loamy Medium Clay (Yeelanna No590)  
1400 mm max rooting depth  
Stubble: 1600 kg/ha of Canola  
No till

## Grain Yield Outcome



This graph shows the probability of exceeding a range of yield outcomes this season. It takes into account your pre-season soil moisture, the weather conditions so far, soil N and agronomic inputs. The long term record from your nominated weather station is then used to simulate what would have happened from this date on in each year of the climate record. The yield results are used to produce this graph.

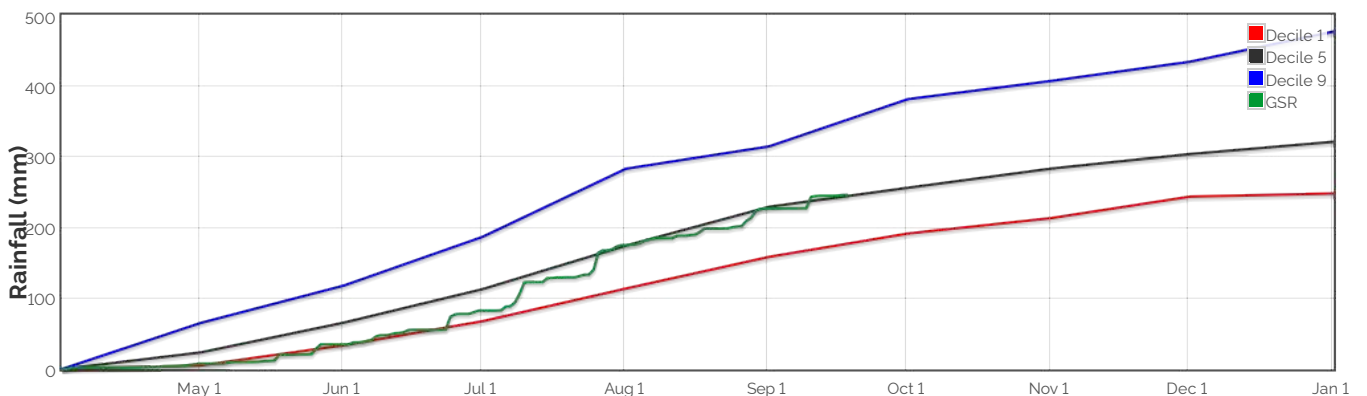
## Hay Yield Outcome



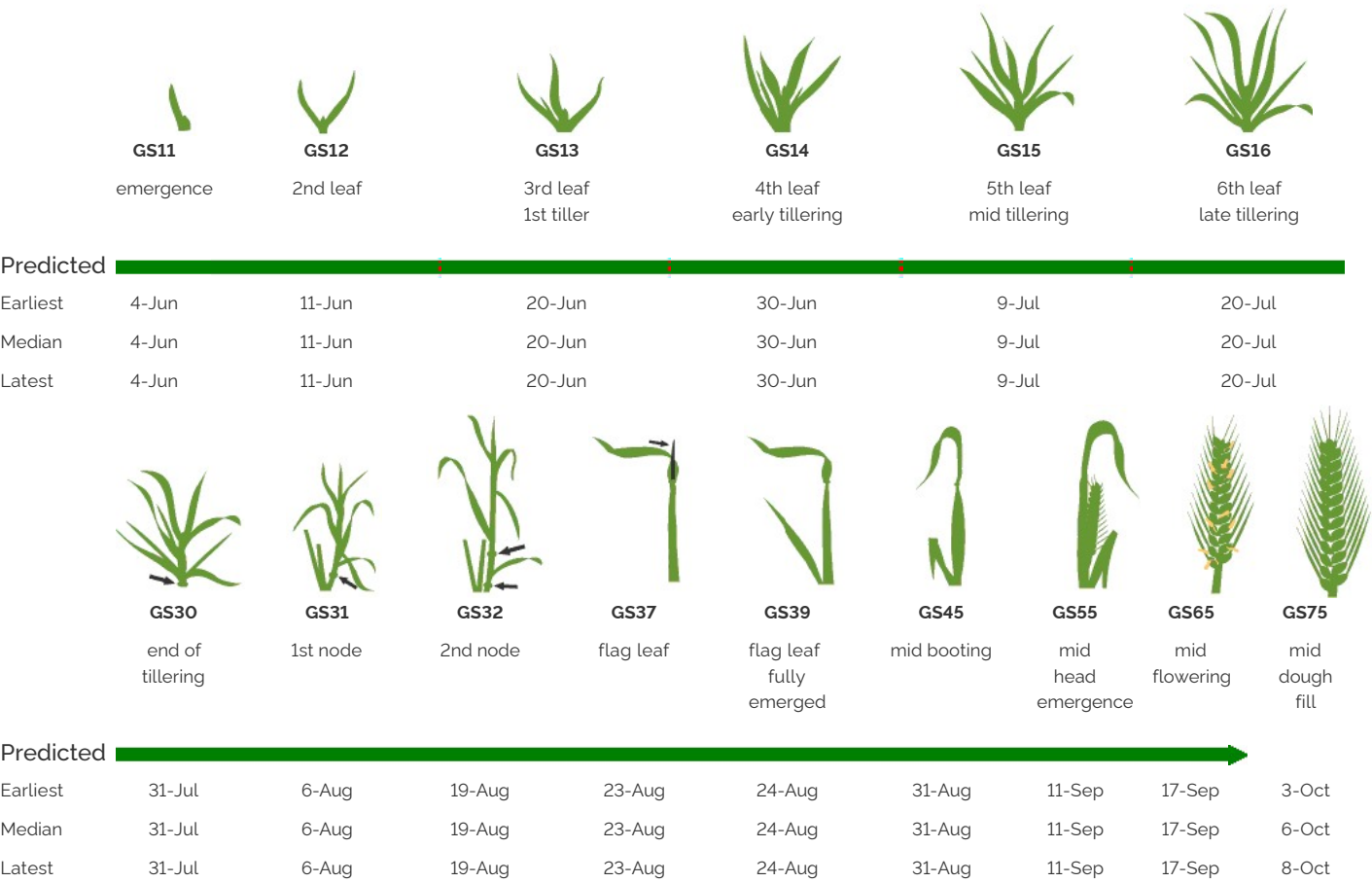
This graph shows the probability of exceeding a range of hay yield outcomes this season. It takes into account the same factors as the grain yield graph above. When above ground dry matter is below 2t/ha, hay yield is assumed to be 70% of dry matter, with a moisture content of 13%. When dry matter is between 2 and 12t/ha, hay yield is assumed to be between 70 and 75% of dry matter (sliding scale). When dry matter is above 12t/ha, hay yield is assumed to be between 75 and 80% (sliding scale).

Current dry matter: 8772.870102822195kg/ha

## The Season So Far - Growing Season Rainfall Deciles



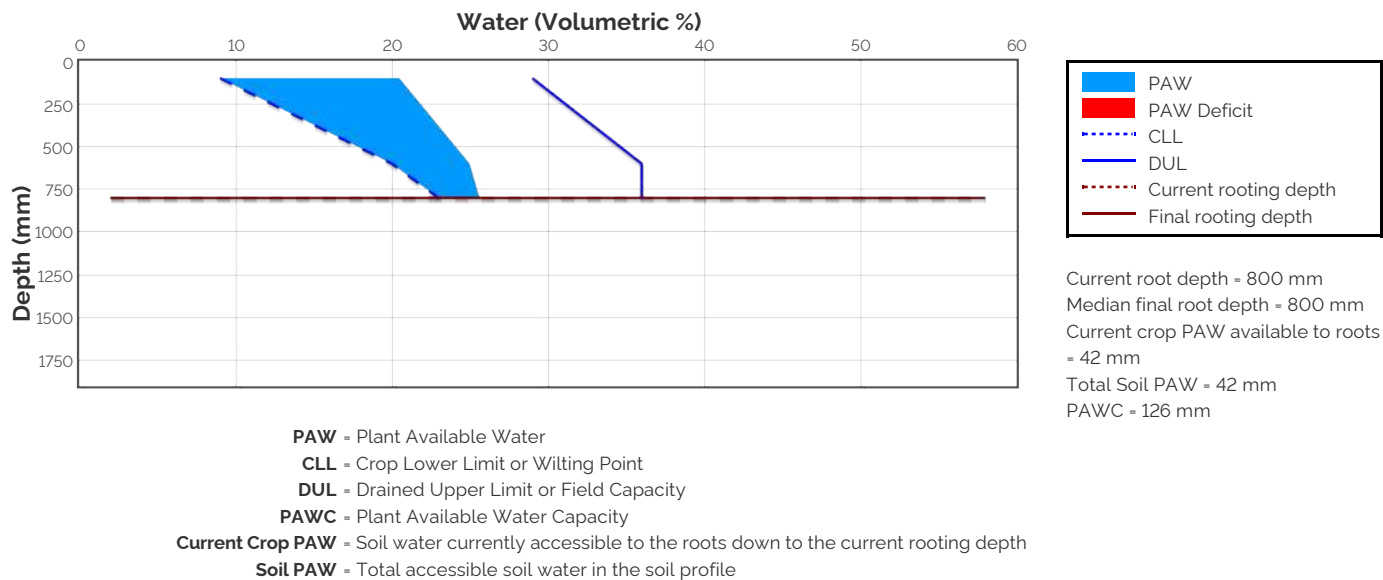
Simulated and Predicted Crop Growth Stage



Probability and Incidence of Frost and Heat Shock

Frost damage during flowering					Heat damage during grain fill				
Probability		This Season			Probability		This Season		
mild 2 to 0°C during flowering moderate 0 to -2°C during flowering & early grain fill severe Less than -2°C during flowering & grain fill	<div></div>		1%	0	mild 32 to 34°C	<div></div>	23%	0	
			0%	0	moderate 34 to 36°C	<div></div>	14%	0	
		0%	0		severe Above 36°C	<div></div>	7%	0	

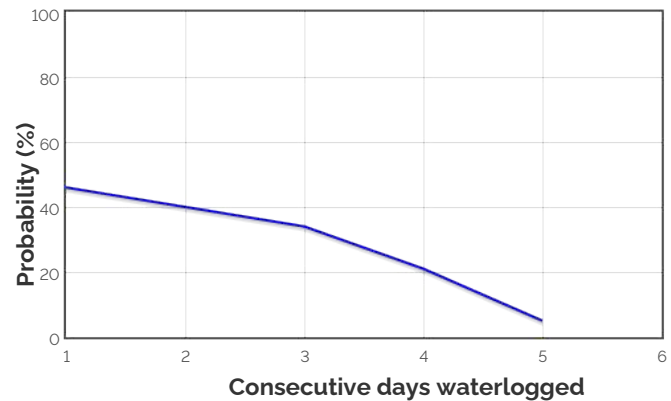
Current Distribution of PAW



Water Budget

Initial PAW status @ 9-May	23 mm
Rainfall since 9-May	235.7 mm
Irrigations	
Evaporation since 9-May	81 mm
Transpiration since 9-May	146 mm
Deep drainage since 9-May	0 mm
Run-off since 9-May	0 mm
<b>Current PAW status:</b>	<b>42 mm</b>

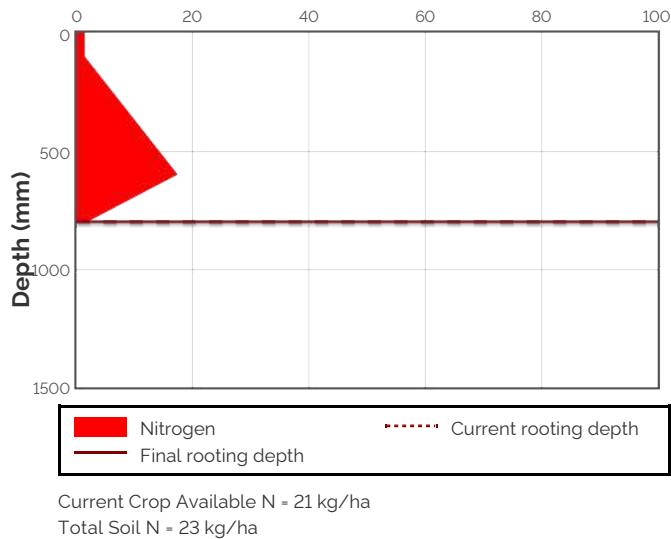
Probability of Future Waterlogging Events



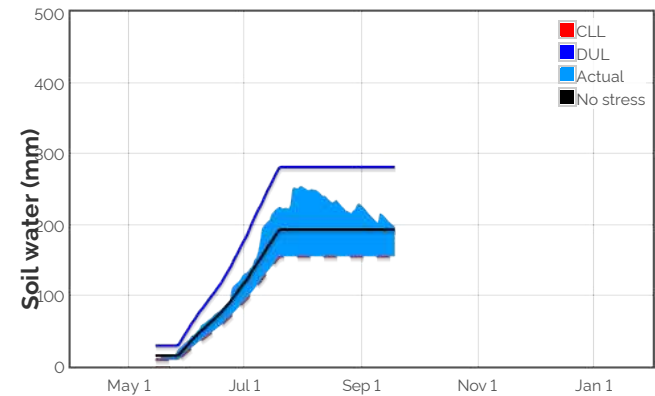
Nitrogen Budget

Initial N status @ 9-May	80 kg/ha
N mineralisation since 9-May	35 kg/ha
N tie up since 9-May	0 kg/ha
N applications	
10-May : 20 kg/ha	
10-Jun : 33 kg/ha	
14-Jul : 35.5 kg/ha	
Total N in plant	171 kg/ha
De-nitrification since 9-May	0 kg/ha
Leaching since 9-May	0 kg/ha
<b>Current N status:</b>	<b>23 kg/ha</b>
Median N mineralisation to maturity - 50.4493341853135 kg/ha	
Median N tie up to maturity - 0 kg/ha	

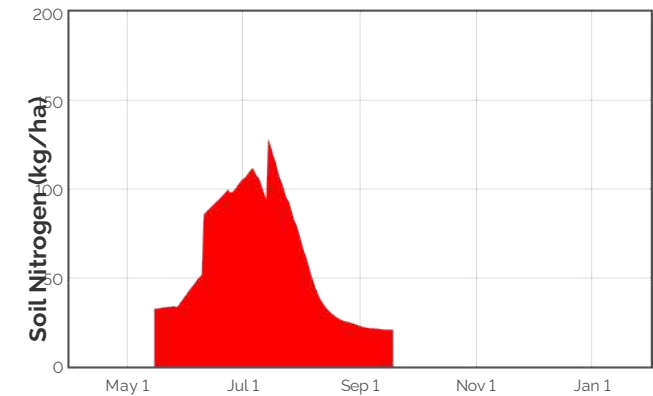
Current distribution of soil nitrogen (kg/ha)



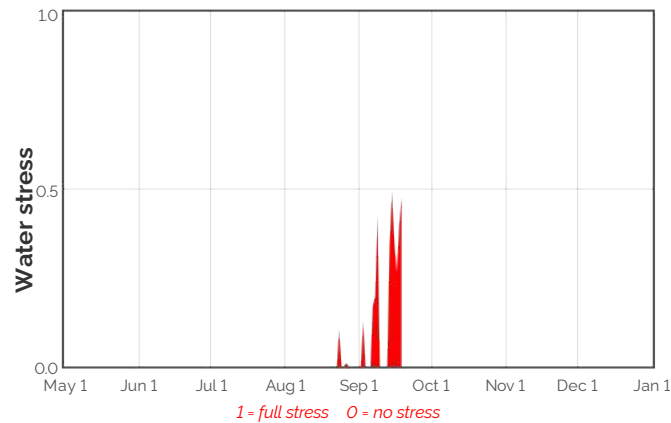
Availability of Water to Growing Roots



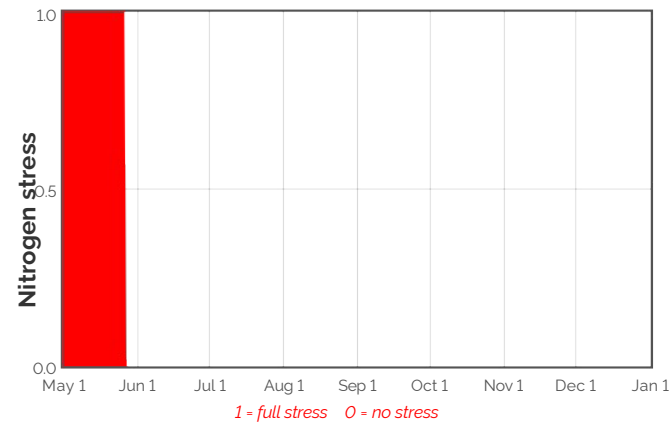
Availability of Soil Nitrogen to Growing Roots



Water Stress



Nitrogen Stress



Brief periods of mild to moderate stress do not necessarily lead to reduced yield. To see the likely impacts of additional nitrogen fertiliser rates use the Nitrogen and Nitrogen Profit reports.

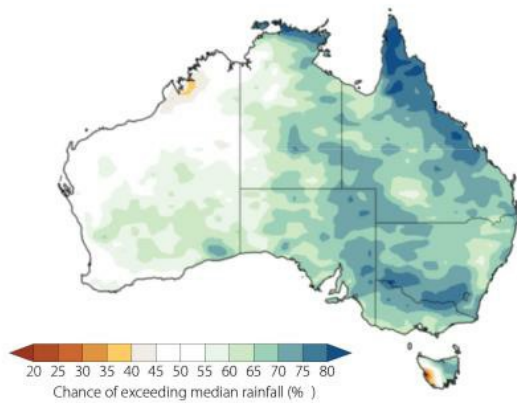
Median projected crop performance and requirements for the next 10 days assuming no rain and no added fertiliser

Date	Growth Stage	Evap. (mm)	Water use (mm)	N use (kg/ha)	Water avail. to roots above stress threshold (mm)	Water avail. to roots above CLL (mm)	N avail. to roots (kg/ha)	Mineralisation (kg/ha)	N tie up (kg/ha)
20-Sep	67.2	0.6	3.0	-0.2	1.5	39.3	20.6	0.2	0.0
21-Sep	67.9	0.7	2.8	-0.2	-0.8	37.0	20.6	0.3	0.0
22-Sep	68.6	0.7	2.9	-0.2	-2.9	34.9	20.6	0.3	0.0
23-Sep	69.3	0.6	2.9	-0.2	-5.0	32.8	20.6	0.3	0.0
24-Sep	70.0	0.6	2.7	-0.2	-6.8	31.0	20.6	0.3	0.0
25-Sep	70.7	0.5	2.6	-0.2	-8.6	29.2	20.7	0.3	0.0
26-Sep	71.2	0.4	2.7	-0.2	-10.4	27.4	20.7	0.3	0.0
27-Sep	71.6	0.4	3.0	-0.2	-11.9	25.9	20.7	0.3	0.0
28-Sep	72.0	0.3	3.1	-0.2	-13.3	24.5	20.8	0.3	0.0
29-Sep	72.5	0.3	2.7	-0.2	-14.6	23.2	20.8	0.3	0.0

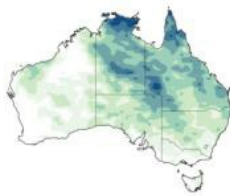
The water available to roots above the stress threshold is the amount of PAW (mm) above one third of the total water holding capacity of this soil. If the water values are below this stress threshold the water available to roots above the stress threshold will be negative.

# Bureau of Meteorology Seasonal and Monthly Outlooks

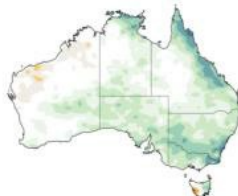
## 3 MONTH RAINFALL OUTLOOK FOR OCTOBER TO DECEMBER



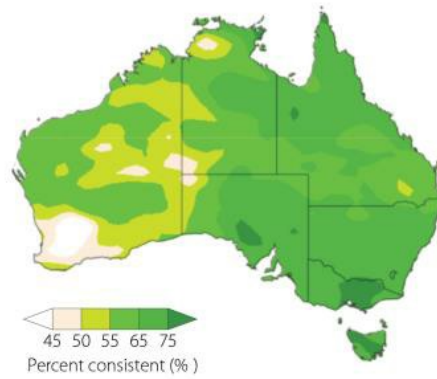
### OCTOBER RAINFALL OUTLOOK



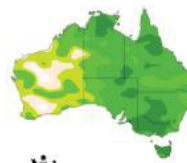
### NOVEMBER RAINFALL OUTLOOK



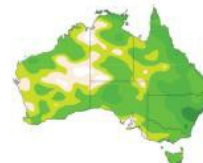
## PAST ACCURACY FOR OCTOBER TO DECEMBER



### PAST ACCURACY FOR OCTOBER



### PAST ACCURACY FOR NOVEMBER



  
Australian Government  
Bureau of Meteorology

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Issued: 15 September 2025