

# Crop Report

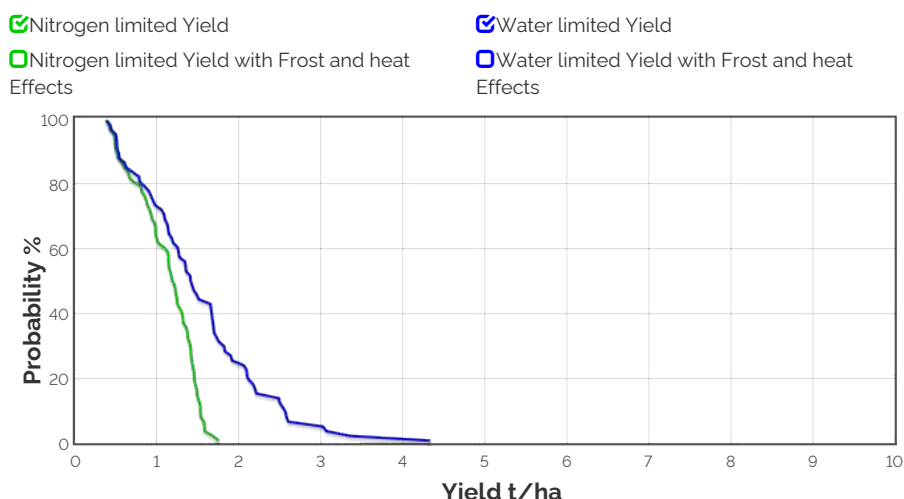
25-Jul-2025

Andrew H Ware:  
Wirrulla

Crop: Wheat  
Cultivar: Scepter  
Sowing details: 150 plants/m<sup>2</sup> on 9-Jun  
Expected maturity date: 27-Nov

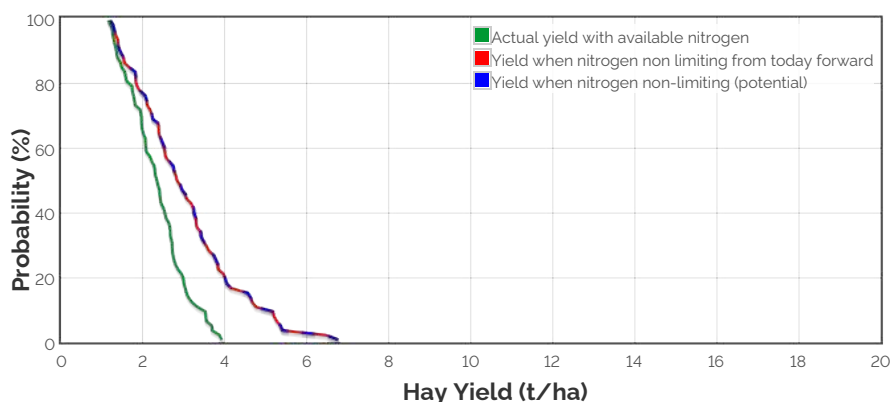
Paddock Details  
Initial conditions date: 28-Jan  
Soil: Grey Calcareous Sandy Loam  
(Cungena No307)  
600 mm max rooting depth  
Stubble: 1000 kg/ha of Wheat  
No till

## 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.

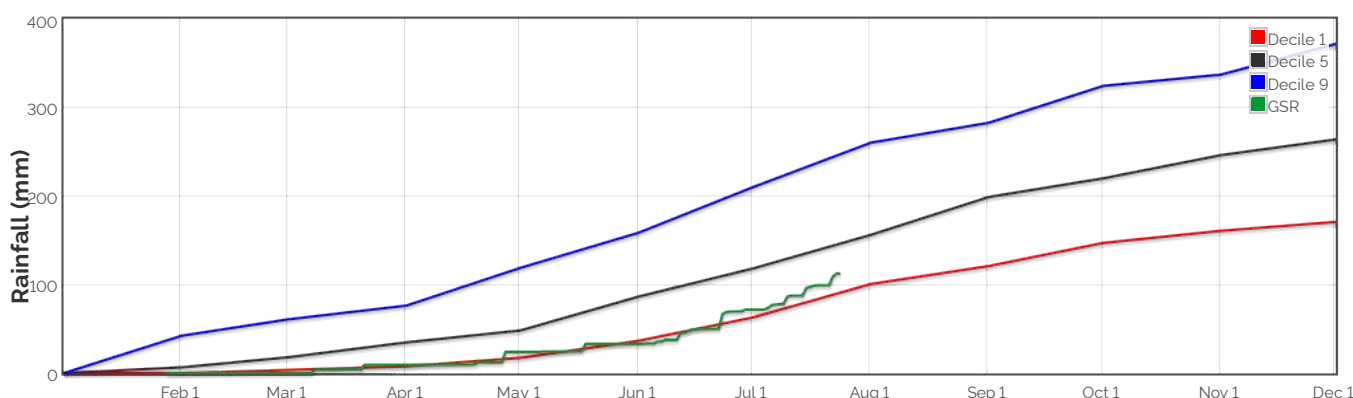
## Hay Yield Outcome



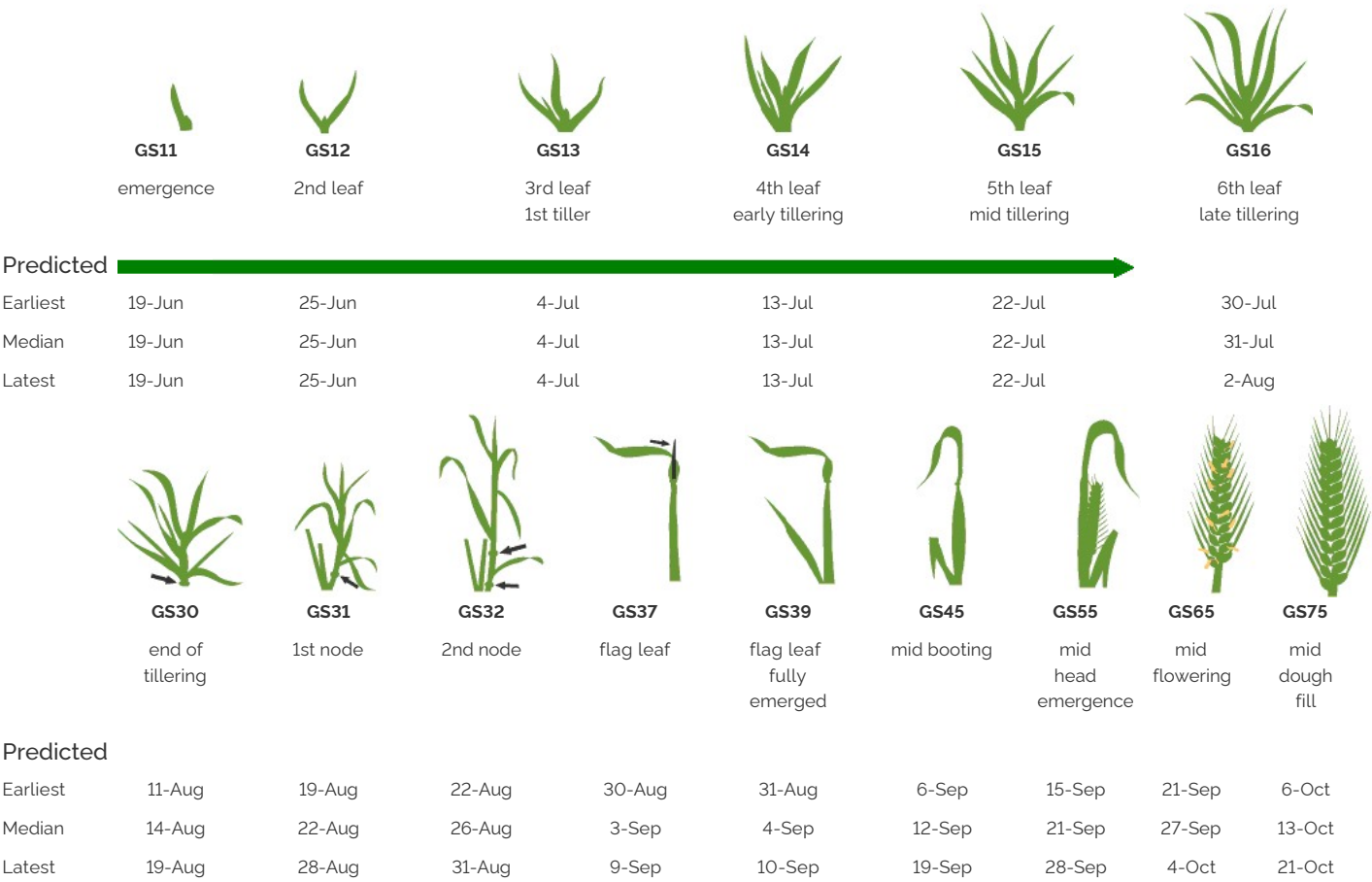
This graph shows the probability of exceeding a range of hay yield outcomes this season. It takes into account the same factors as the grain yield graph above. When above ground dry matter is below 2t/ha, hay yield is assumed to be 70% of dry matter, with a moisture content of 13%. When dry matter is 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: 738.7650047781456kg/ha





## The Season So Far - Growing Season Rainfall Deciles



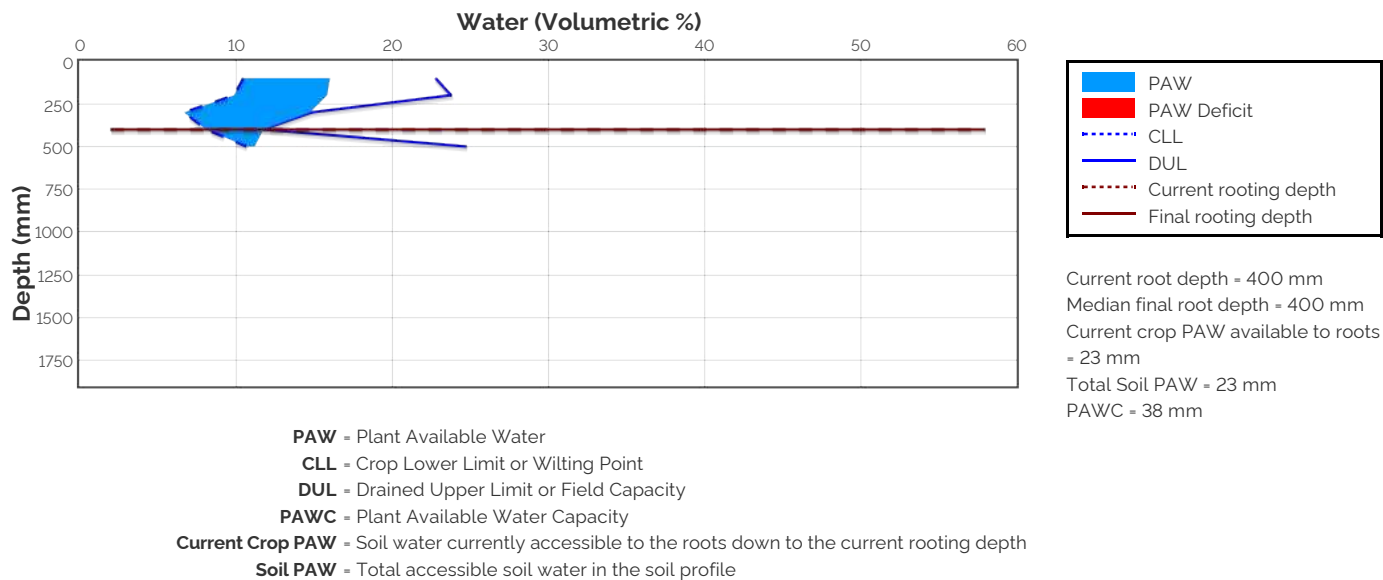
Simulated and Predicted Crop Growth Stage



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			10%	0	mild 32 to 34°C		63%	0	
			0%	0	moderate 34 to 36°C		57%	0	
		0%	0		severe Above 36°C		46%	0	

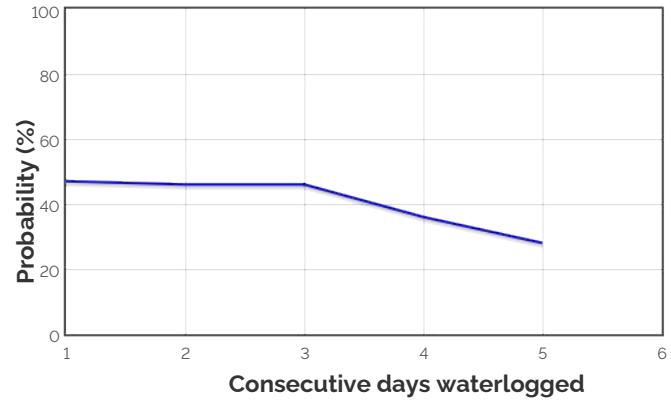
Current Distribution of PAW



Water Budget

Initial PAW status @ 28-Jan	4 mm
Rainfall since 28-Jan	112.6 mm
Irrigations	
Evaporation since 28-Jan	81 mm
Transpiration since 28-Jan	11 mm
Deep drainage since 28-Jan	0 mm
Run-off since 28-Jan	0 mm
<b>Current PAW status:</b>	<b>23 mm</b>

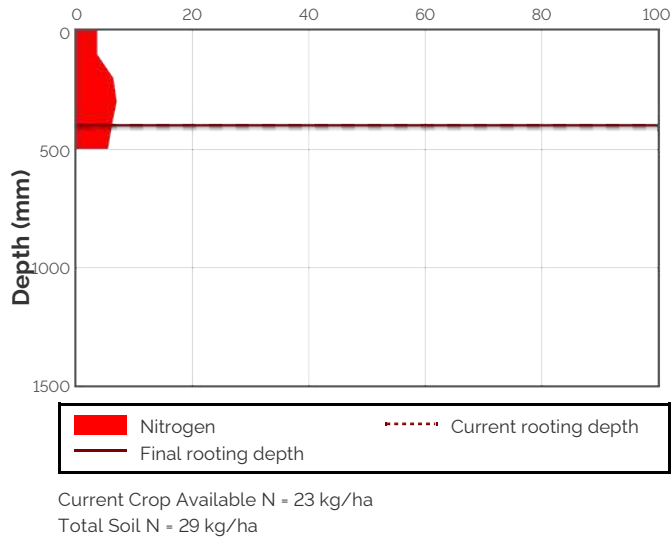
Probability of Future Waterlogging Events



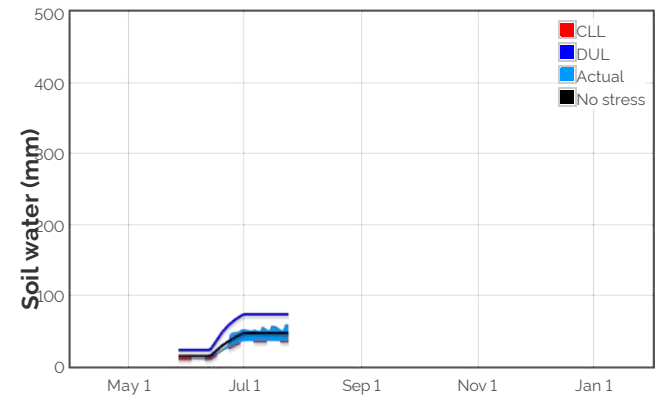
Nitrogen Budget

Initial N status @ 28-Jan	63 kg/ha
N mineralisation since 28-Jan	54 kg/ha
N tie up since 28-Jan	0 kg/ha
N applications	
10-May : 5 kg/ha	
Total N in plant	37 kg/ha
De-nitrification since 28-Jan	0 kg/ha
Leaching since 28-Jan	0 kg/ha
<b>Current N status:</b>	<b>29 kg/ha</b>
Median N mineralisation to maturity = 47.5727972526647 kg/ha	
Median N tie up to maturity = 0 kg/ha	

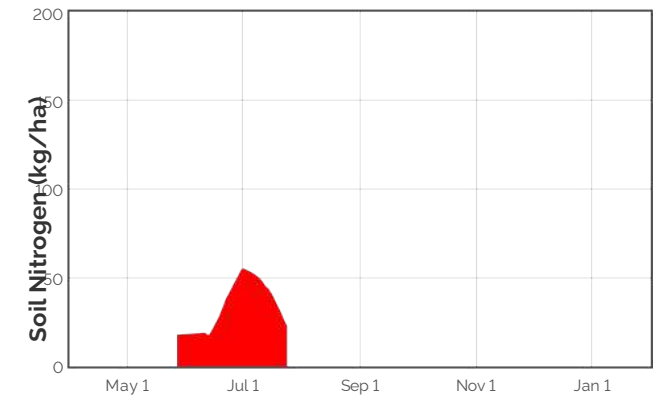
Current distribution of soil nitrogen (kg/ha)



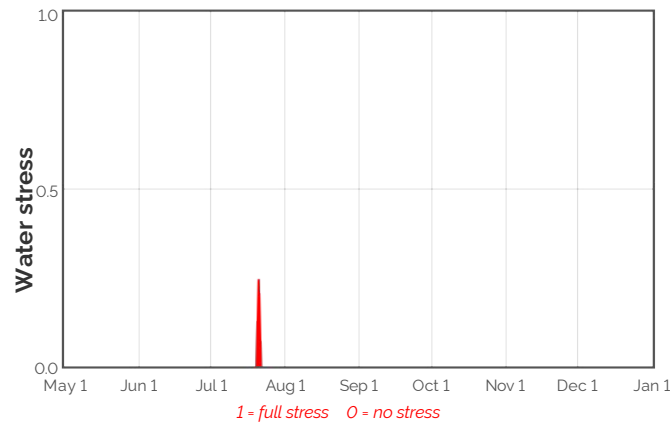
Availability of Water to Growing Roots



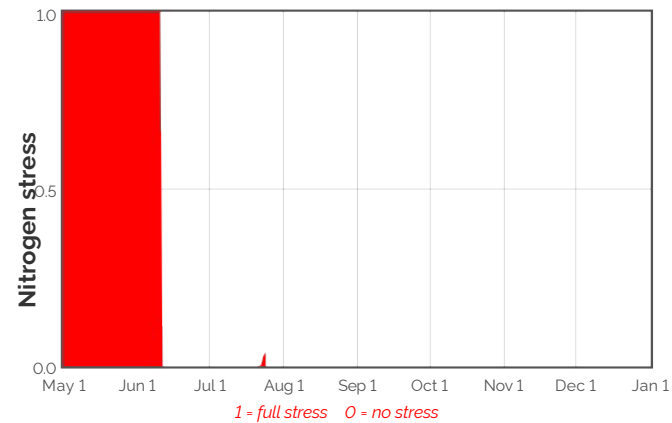
Availability of Soil Nitrogen to Growing Roots



Water Stress



Nitrogen Stress



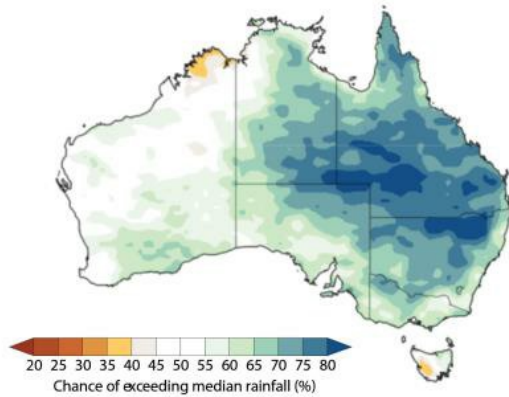
Brief periods of mild to moderate stress do not necessarily lead to reduced yield. To see the likely impacts of additional nitrogen fertiliser rates use the Nitrogen and Nitrogen Profit reports.

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

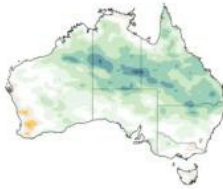
Date	Growth Stage	Evap. (mm)	Water use (mm)	N use (kg/ha)	Water avail. to roots above stress threshold (mm)	Water avail. to roots above CLL (mm)	N avail. to roots (kg/ha)	Mineralisation (kg/ha)	N tie up (kg/ha)
26-Jul	15.5	0.7	0.9	-16	10.9	22.3	21.2	0.2	0.0
27-Jul	15.6	0.8	1.0	-14	9.4	20.8	19.9	0.2	0.0
28-Jul	15.7	0.8	1.1	-12	7.9	19.3	18.8	0.2	0.0
29-Jul	15.8	0.8	1.0	-10	6.5	17.9	17.8	0.2	0.0
30-Jul	15.9	0.8	1.1	-0.9	4.8	16.2	17.0	0.2	0.0
31-Jul	16.0	0.8	1.3	-0.7	3.3	14.7	16.3	0.2	0.0
1-Aug	16.0	0.7	1.2	-0.7	1.9	13.4	15.7	0.2	0.0
2-Aug	16.0	0.4	1.2	-0.6	0.9	12.3	15.1	0.2	0.0
3-Aug	16.0	0.4	1.3	-0.5	-0.2	11.3	14.7	0.2	0.0
4-Aug	16.0	0.4	1.3	-0.5	-1.1	10.4	14.2	0.2	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.

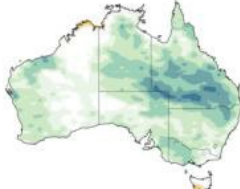
3 MONTH RAINFALL OUTLOOK FOR  
AUGUST TO OCTOBER



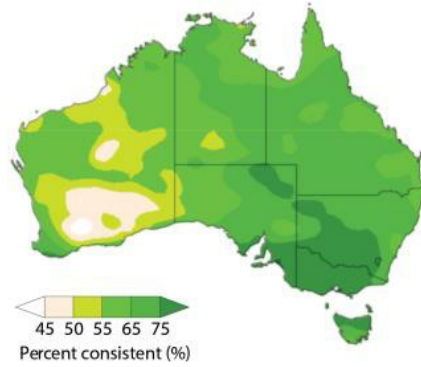
AUGUST  
RAINFALL OUTLOOK



SEPTEMBER  
RAINFALL OUTLOOK



PAST ACCURACY FOR  
AUGUST TO OCTOBER



PAST ACCURACY FOR  
AUGUST



PAST ACCURACY FOR  
SEPTEMBER

