

Crop Report

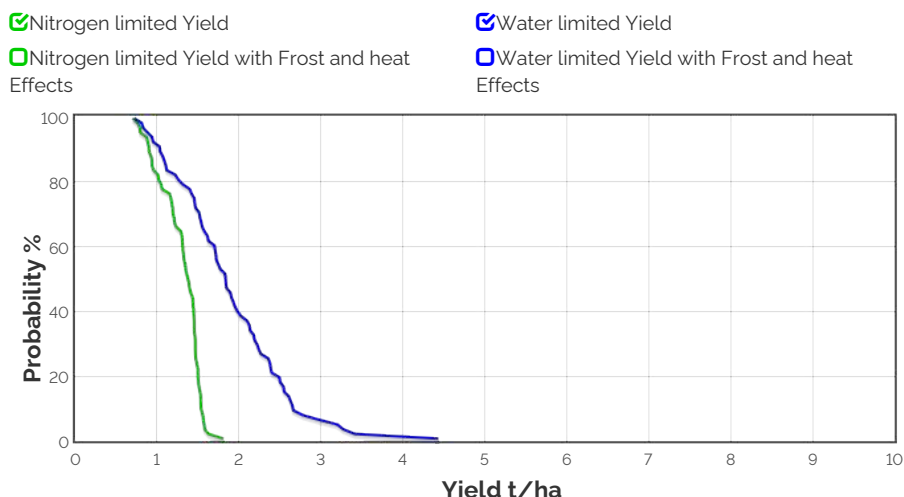
28-Jul-2025

Andrew H Ware:
Wirrulla

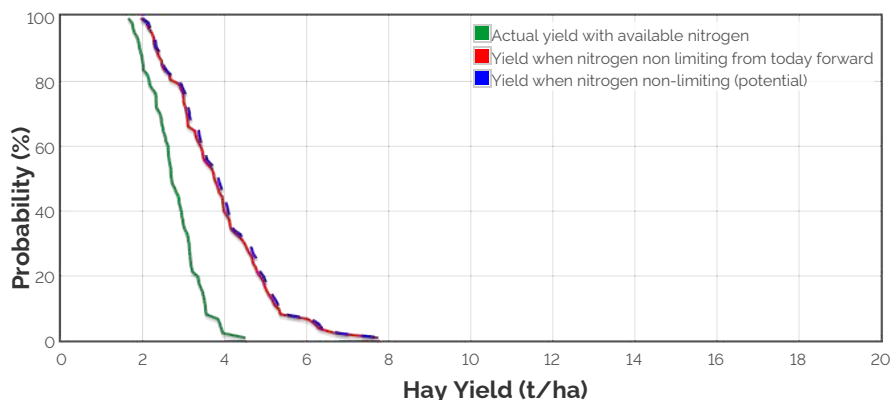
Crop: Wheat
Cultivar: Scepter
Sowing details: 150 plants/m² on 9-Jun
Expected maturity date: 27-Nov

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

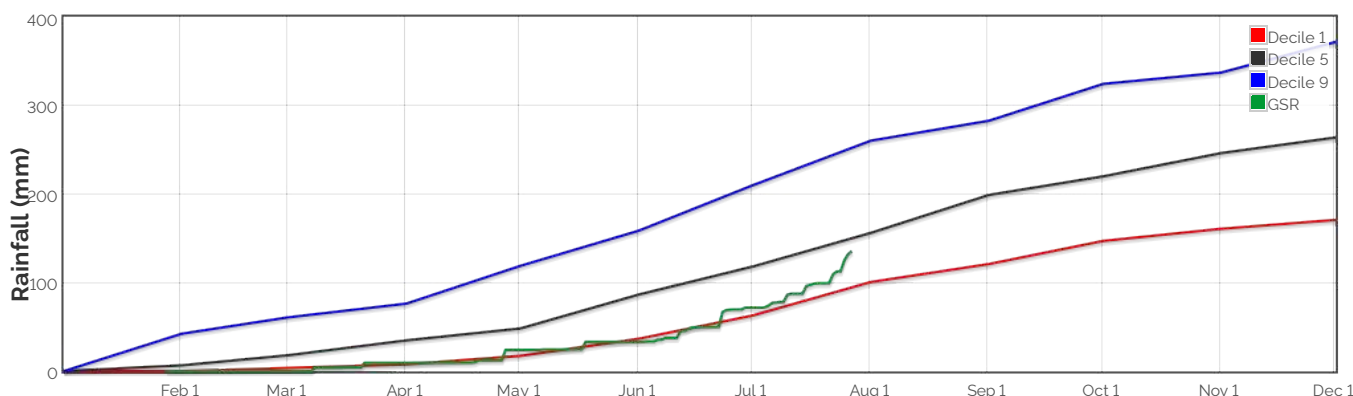


Hay Yield Outcome

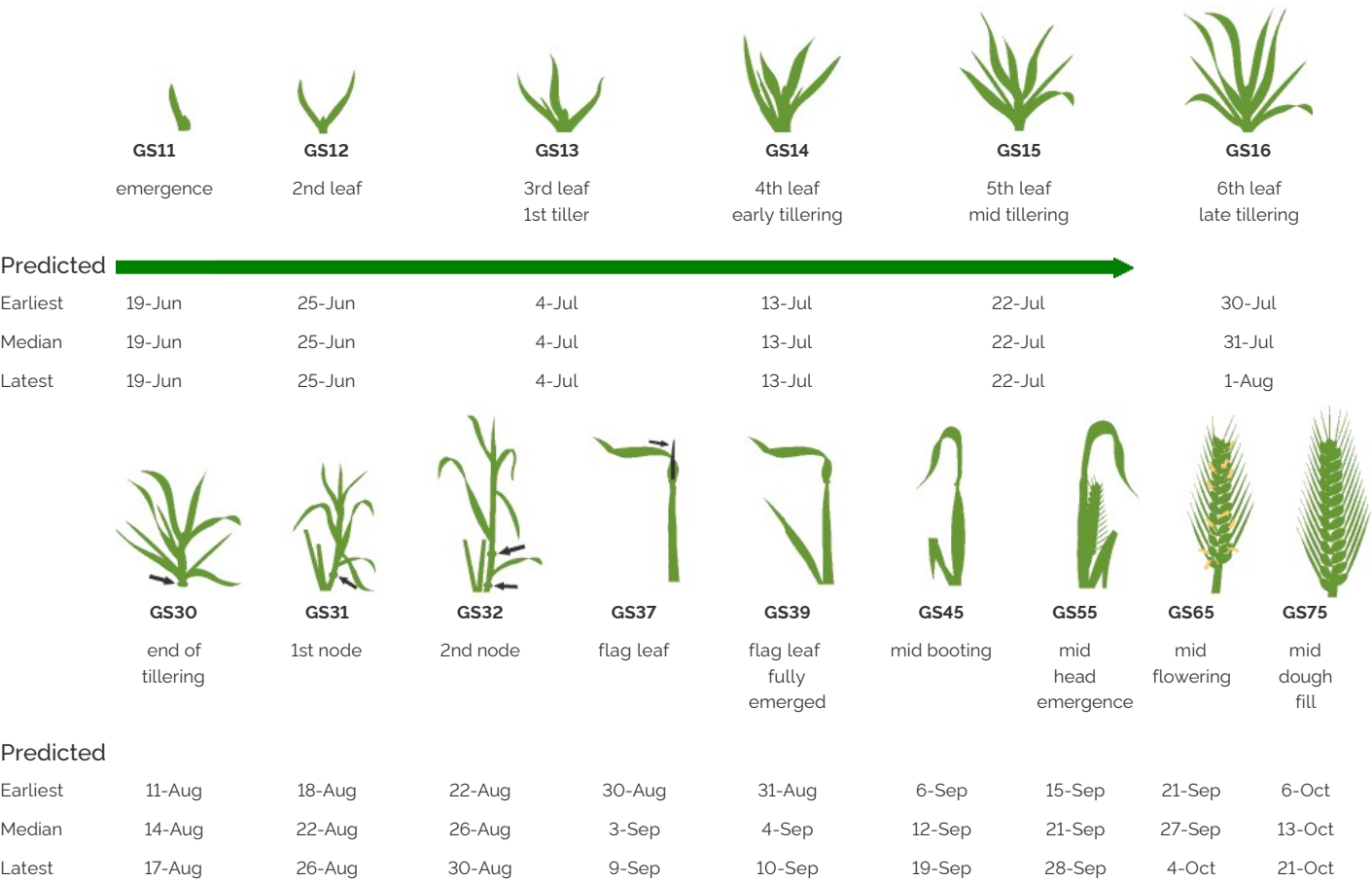


Current dry matter: 925.5425476608787kg/ha

The Season So Far - Growing Season Rainfall Deciles



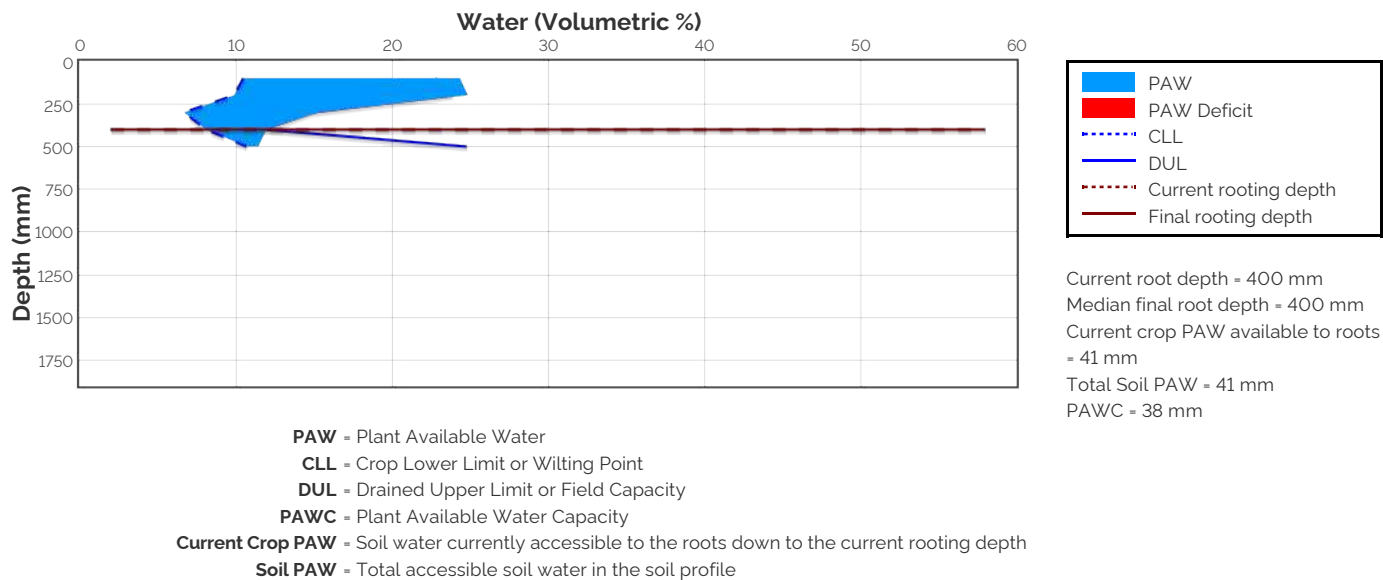
Simulated and Predicted Crop Growth Stage



Probability and Incidence of Frost and Heat Shock

Frost damage during flowering					Heat damage during grain fill				
Probability		This Season			Probability		This Season		
<div><div></div><div></div><div></div></div> <div>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>			10%	0	<div><div></div><div></div><div></div></div> <div>mild 32 to 34°C moderate 34 to 36°C severe Above 36°C</div>		63%	0	
			0%	0		60%	0		
		0%	0			44%	0		

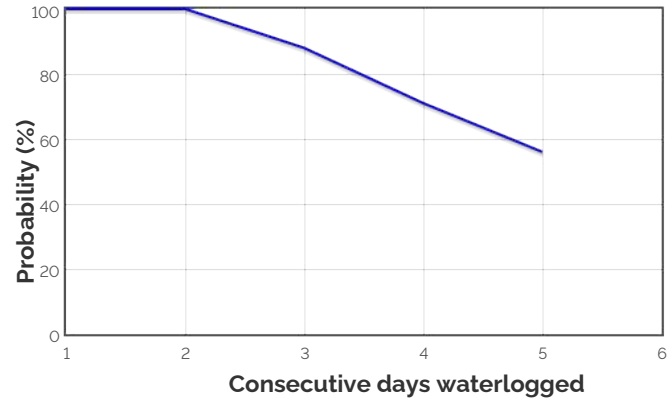
Current Distribution of PAW



Water Budget

Initial PAW status @ 28-Jan	4 mm
Rainfall since 28-Jan	135.6 mm
Irrigations	
Evaporation since 28-Jan	84 mm
Transpiration since 28-Jan	13 mm
Deep drainage since 28-Jan	0 mm
Run-off since 28-Jan	0 mm
Current PAW status:	41 mm

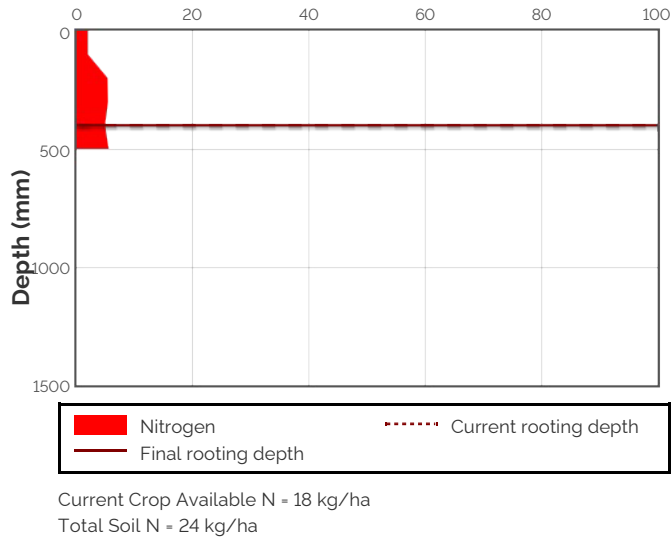
Probability of Future Waterlogging Events



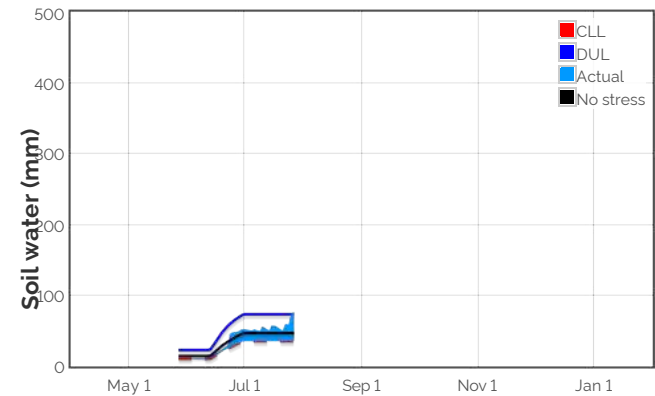
Nitrogen Budget

Initial N status @ 28-Jan	63 kg/ha
N mineralisation since 28-Jan	55 kg/ha
N tie up since 28-Jan	0 kg/ha
N applications	
10-May : 5 kg/ha	
Total N in plant	42 kg/ha
De-nitrification since 28-Jan	0 kg/ha
Leaching since 28-Jan	0 kg/ha
Current N status:	24 kg/ha
Median N mineralisation to maturity = 47.4456880137335 kg/ha	
Median N tie up to maturity = 0 kg/ha	

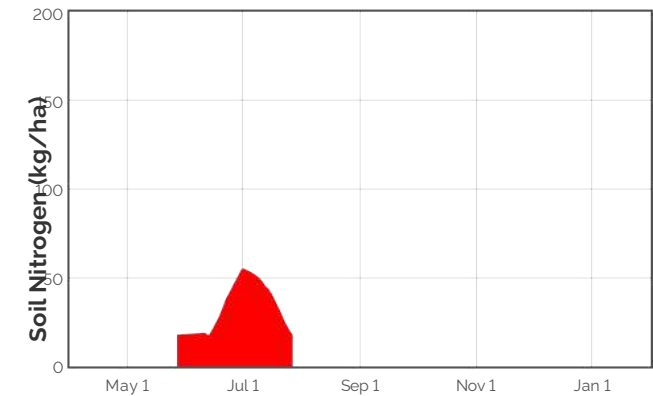
Current distribution of soil nitrogen (kg/ha)



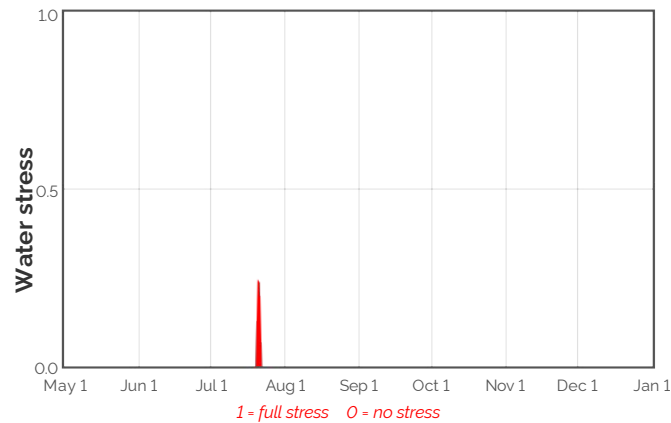
Availability of Water to Growing Roots



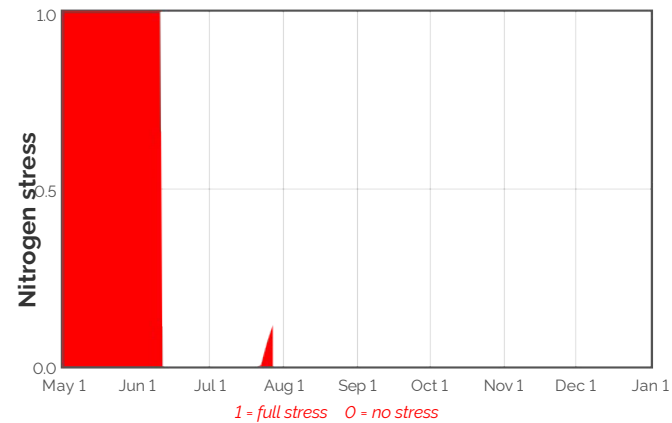
Availability of Soil Nitrogen to Growing Roots



Water Stress



Nitrogen Stress



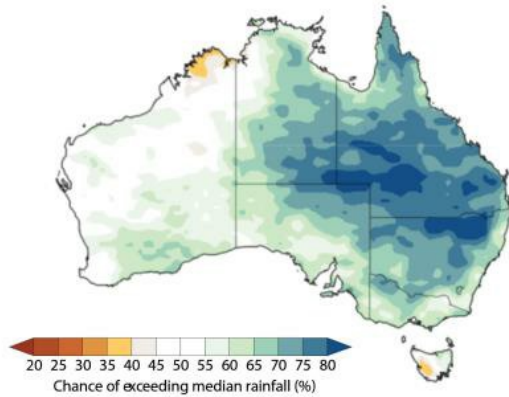
Brief periods of mild to moderate stress do not necessarily lead to reduced yield. To see the likely impacts of additional nitrogen fertiliser rates use the Nitrogen and Nitrogen Profit reports.

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

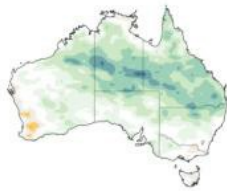
Date	Growth Stage	Evap. (mm)	Water use (mm)	N use (kg/ha)	Water avail. to roots above stress threshold (mm)	Water avail. to roots above CLL (mm)	N avail. to roots (kg/ha)	Mineralisation (kg/ha)	N tie up (kg/ha)
29-Jul	15.8	0.9	1.1	-1.2	28.2	39.7	16.2	0.2	0.0
30-Jul	15.9	0.7	1.2	-1.0	26.5	38.0	15.1	0.2	0.0
31-Jul	16.0	0.7	1.3	-0.9	24.9	36.3	14.2	0.2	0.0
1-Aug	16.0	0.8	1.3	-0.8	22.9	34.3	13.5	0.2	0.0
2-Aug	16.0	0.8	1.2	-0.7	20.9	32.4	12.9	0.2	0.0
3-Aug	16.0	0.8	1.3	-0.6	19.0	30.4	12.3	0.2	0.0
4-Aug	16.0	0.7	1.3	-0.5	16.9	28.4	11.8	0.2	0.0
5-Aug	16.0	0.7	1.4	-0.5	15.1	26.5	11.4	0.2	0.0
6-Aug	16.0	0.6	1.3	-0.4	13.1	24.5	11.0	0.2	0.0
7-Aug	16.0	0.4	1.3	-0.4	11.4	22.9	10.6	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.

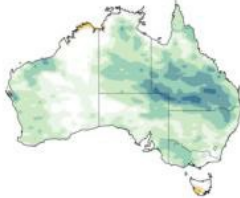
3 MONTH RAINFALL OUTLOOK FOR
AUGUST TO OCTOBER



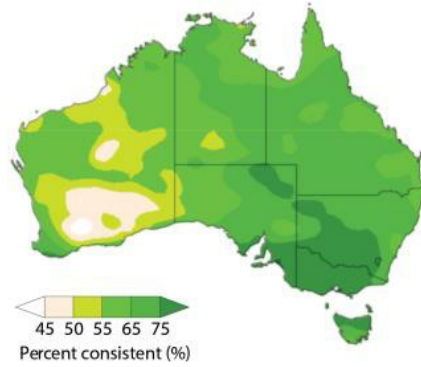
AUGUST
RAINFALL OUTLOOK



SEPTEMBER
RAINFALL OUTLOOK



PAST ACCURACY FOR
AUGUST TO OCTOBER



PAST ACCURACY FOR
AUGUST



PAST ACCURACY FOR
SEPTEMBER

