

# Crop Report

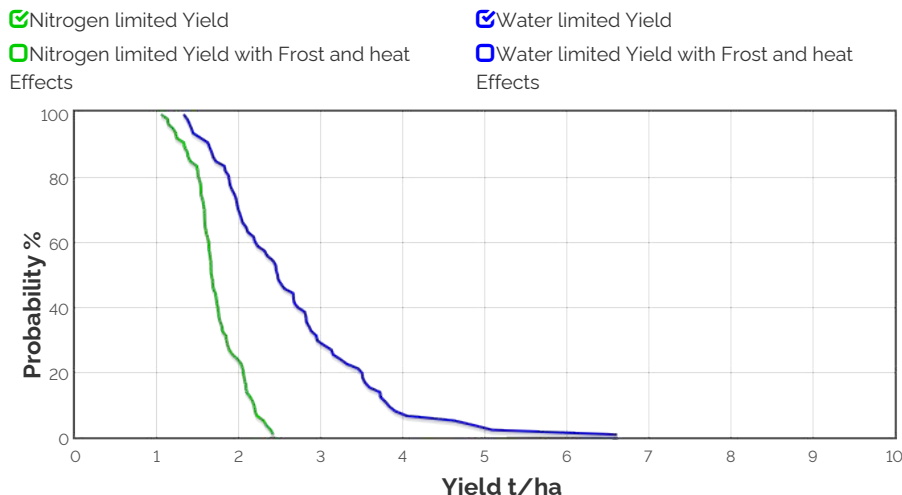
28-Jul-2025

Andrew H Ware: Heddle  
Minnipa

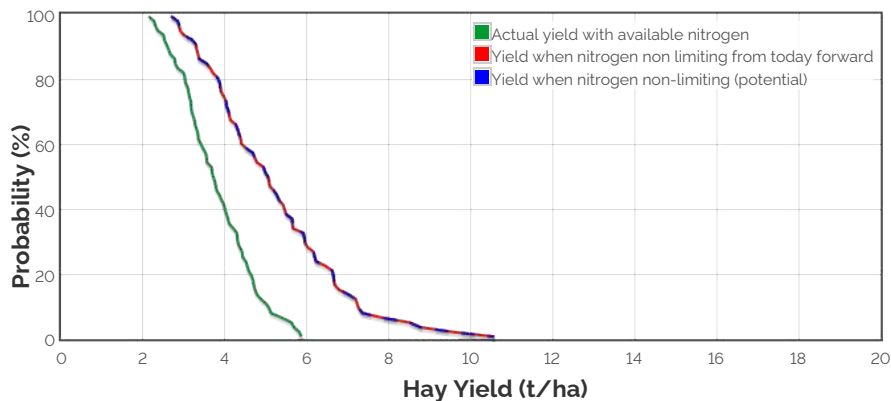
Crop: Wheat  
Cultivar: Calibre  
Sowing details: 150 plants/m<sup>2</sup> on 9-Jun  
Expected maturity date: 30-Nov

Paddock Details  
Initial conditions date: 20-May  
Soil: Red sandy clay loam (Minnipa No909)  
1000 mm max rooting depth  
Stubble: 1000 kg/ha of Lentil  
No till

## Grain Yield Outcome

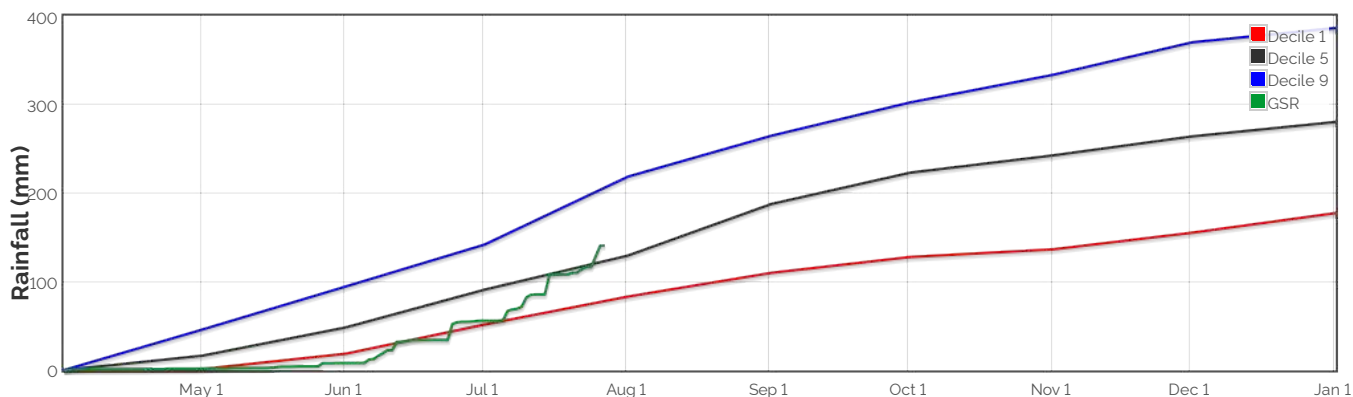


## Hay Yield Outcome

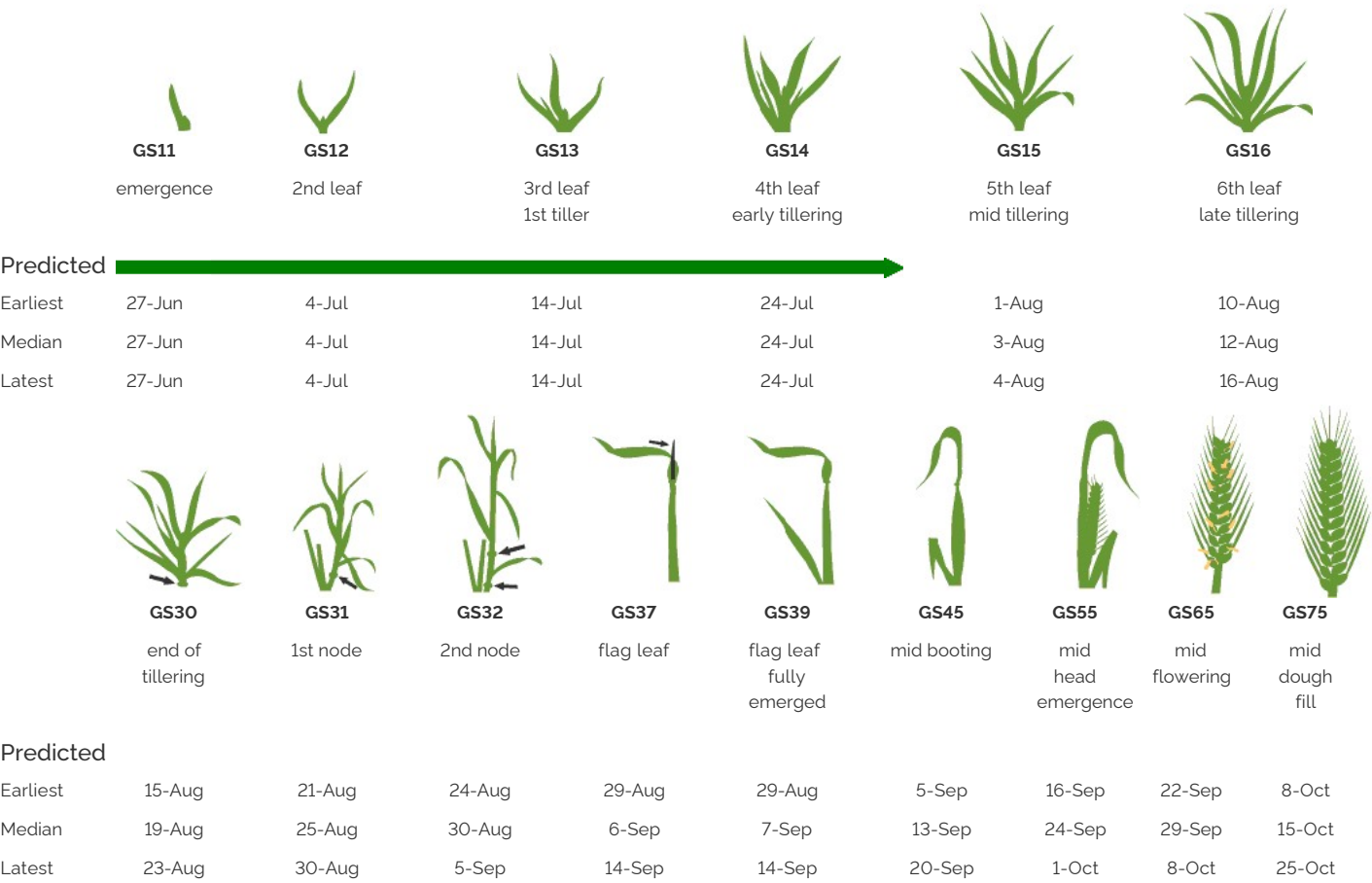


Current dry matter: 428.49774638713643kg/ha





## The Season So Far - Growing Season Rainfall Deciles



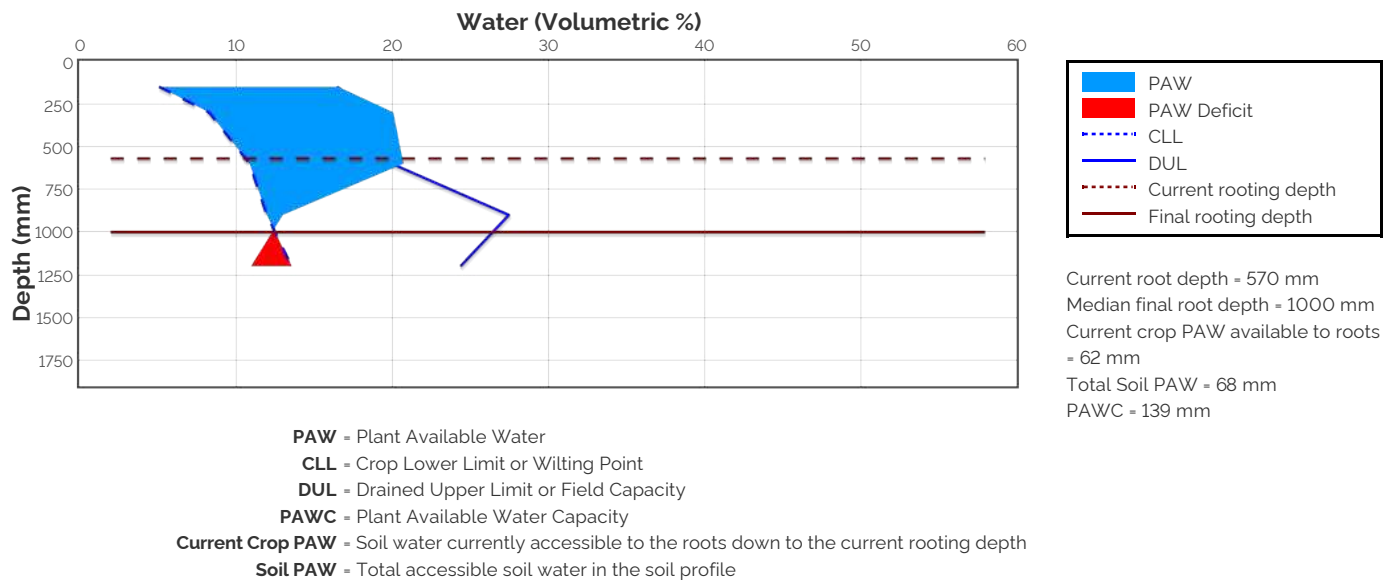
Simulated and Predicted Crop Growth Stage



Probability and Incidence of Frost and Heat Shock

Frost damage during flowering					Heat damage during grain fill				
Probability		This Season			Probability		This Season		
mild			4%	0	mild		69%	0	
2 to 0°C during flowering					32 to 34°C				
moderate			0%	0	moderate		46%	0	
0 to -2°C during flowering & early grain fill					34 to 36°C				
severe		0%	0		severe		30%	0	
Less than -2°C during flowering & grain fill					Above 36°C				

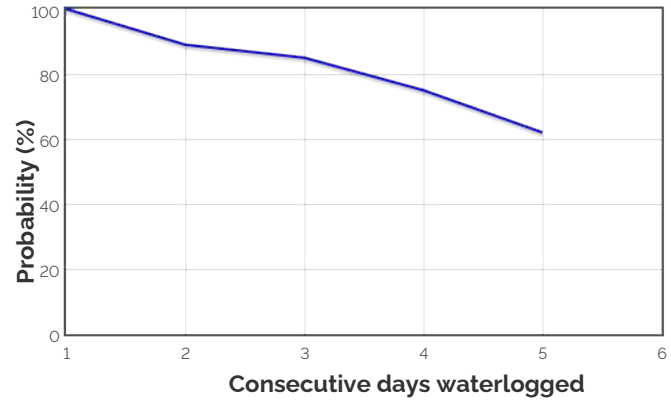
Current Distribution of PAW



Water Budget

Initial PAW status @ 20-May	2 mm
Rainfall since 20-May	136.8 mm
Irrigations	
Evaporation since 20-May	58 mm
Transpiration since 20-May	5 mm
Deep drainage since 20-May	0 mm
Run-off since 20-May	1 mm
<b>Current PAW status:</b>	<b>68 mm</b>

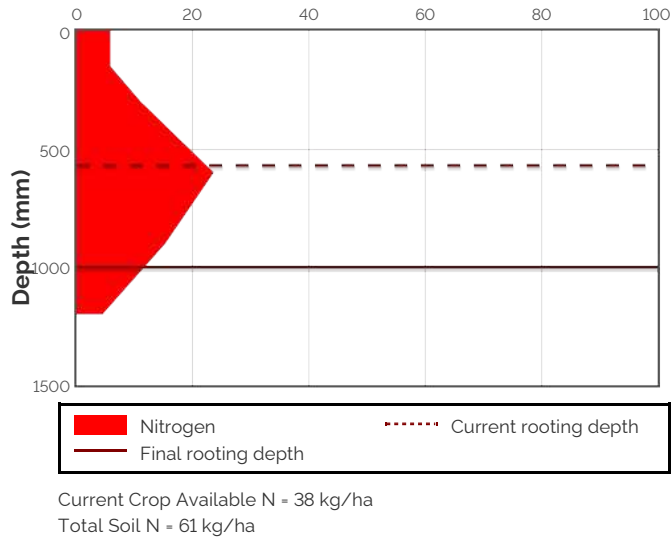
Probability of Future Waterlogging Events



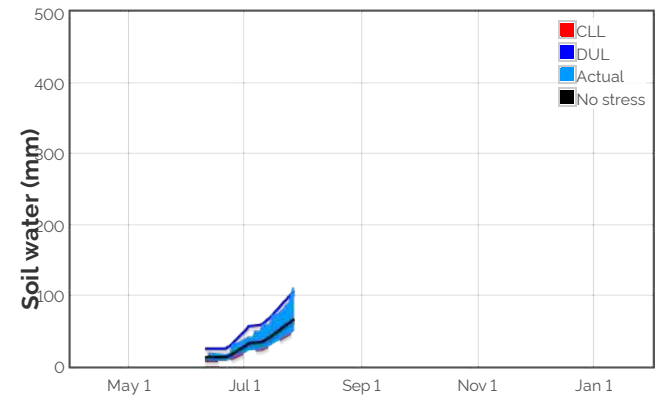
Nitrogen Budget

Initial N status @ 20-May	58 kg/ha
N mineralisation since 20-May	9 kg/ha
N tie up since 20-May	0 kg/ha
N applications	
1-May : 30 kg/ha	
Total N in plant	22 kg/ha
De-nitrification since 20-May	0 kg/ha
Leaching since 20-May	0 kg/ha
<b>Current N status:</b>	<b>61 kg/ha</b>
Median N mineralisation to maturity	= 35.8162718885866 kg/ha
Median N tie up to maturity	= 0 kg/ha

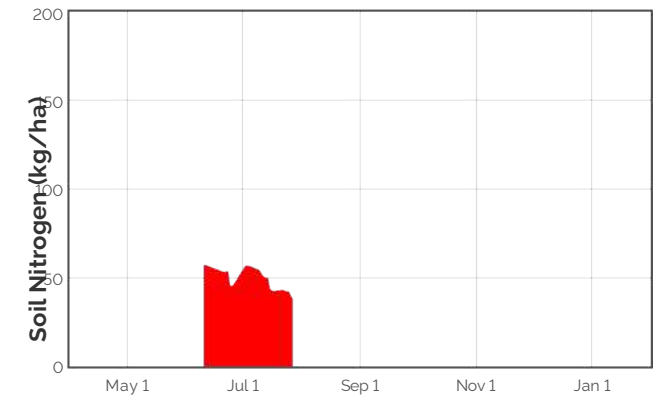
Current distribution of soil nitrogen (kg/ha)



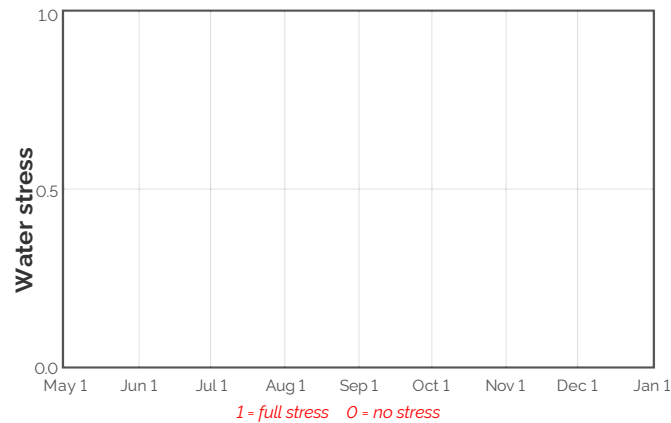
Availability of Water to Growing Roots



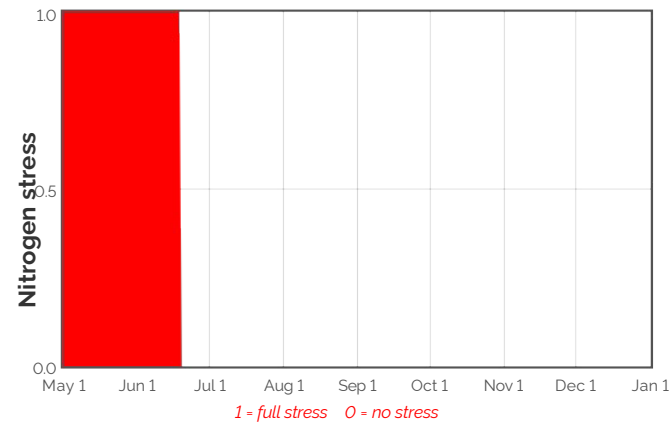
Availability of Soil Nitrogen to Growing Roots



Water Stress



Nitrogen Stress



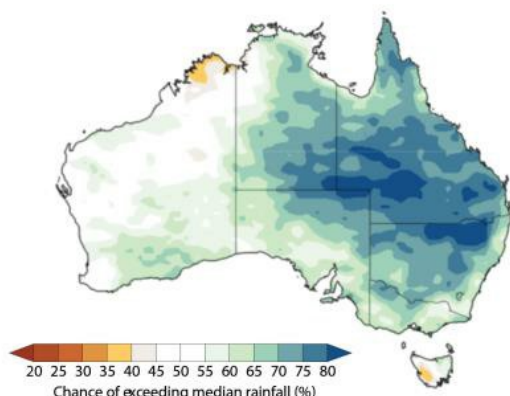
Brief periods of mild to moderate stress do not necessarily lead to reduced yield. To see the likely impacts of additional nitrogen fertiliser rates use the Nitrogen and Nitrogen Profit reports.

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

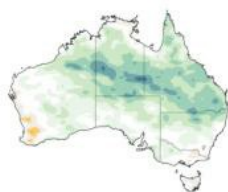
Date	Growth Stage	Evap. (mm)	Water use (mm)	N use (kg/ha)	Water avail. to roots above stress threshold (mm)	Water avail. to roots above CLL (mm)	N avail. to roots (kg/ha)	Mineralisation (kg/ha)	N tie up (kg/ha)
29-Jul	14.6	1.1	0.6	-19	42.5	59.9	36.4	0.2	0.0
30-Jul	14.7	1.0	0.6	-2.1	40.9	58.9	35.1	0.2	0.0
31-Jul	14.8	0.8	0.7	-2.3	39.0	57.5	33.5	0.2	0.0
1-Aug	14.9	0.6	0.7	-2.3	37.1	56.2	31.8	0.2	0.0
2-Aug	15.0	0.5	0.7	-2.1	35.4	55.1	30.6	0.2	0.0
3-Aug	15.1	0.5	0.7	-1.8	33.9	54.2	29.4	0.2	0.0
4-Aug	15.2	0.4	0.8	-1.6	32.4	53.1	28.4	0.2	0.0
5-Aug	15.3	0.4	0.8	-1.4	30.9	52.1	27.8	0.2	0.0
6-Aug	15.4	0.4	0.9	-1.2	29.0	50.9	27.2	0.2	0.0
7-Aug	15.5	0.3	0.9	-1.1	27.3	50.0	26.8	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.

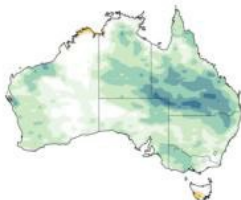
3 MONTH RAINFALL OUTLOOK FOR  
AUGUST TO OCTOBER



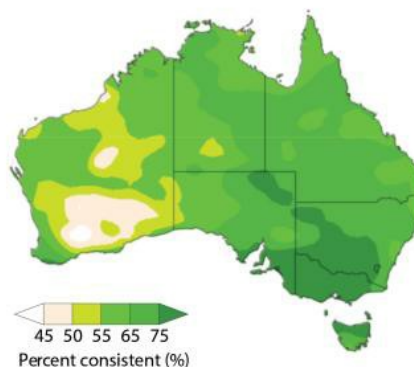
AUGUST  
RAINFALL OUTLOOK



SEPTEMBER  
RAINFALL OUTLOOK



PAST ACCURACY FOR  
AUGUST TO OCTOBER



PAST ACCURACY FOR  
AUGUST



PAST ACCURACY FOR  
SEPTEMBER

