



Crop Report

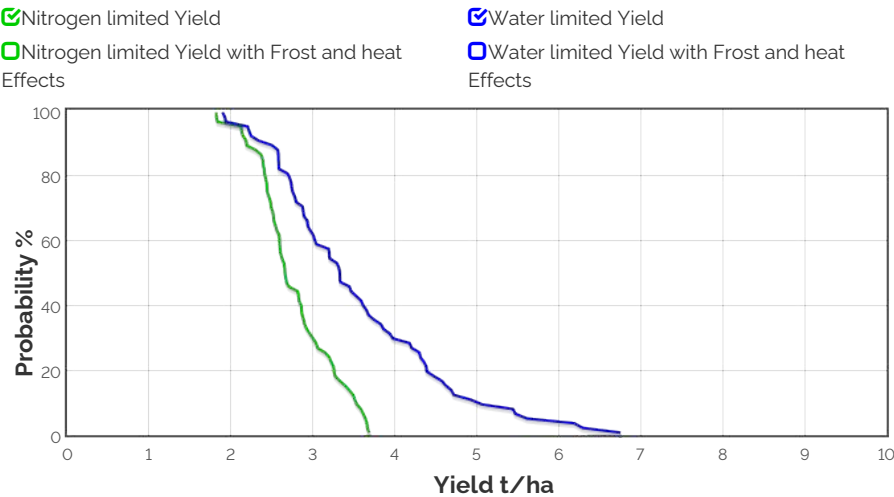
28-Jul-2025

Andrew H Ware: Lock

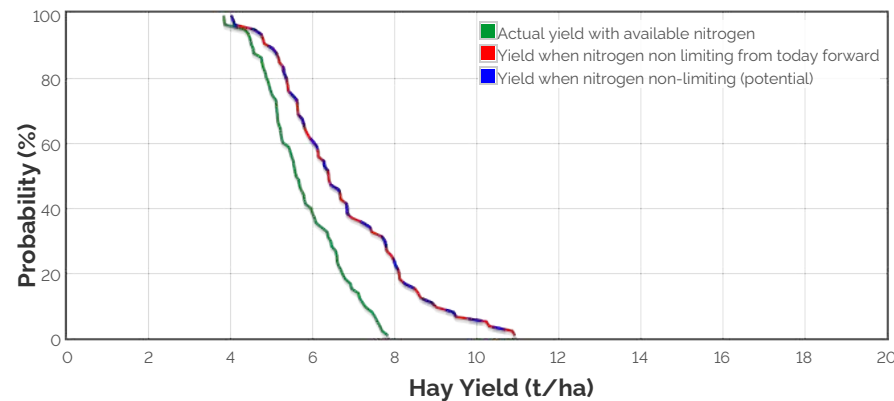
Crop: Wheat
Cultivar: Calibre
Sowing details: 150 plants/m² on 10-Jun
Expected maturity date: 3-Dec

Paddock Details
Initial conditions date: 1-Apr
Soil: Grey Calcareous Loamy Sand (Lock No318)
800 mm max rooting depth
Stubble: 1000 kg/ha of Canola
No till

Grain Yield Outcome

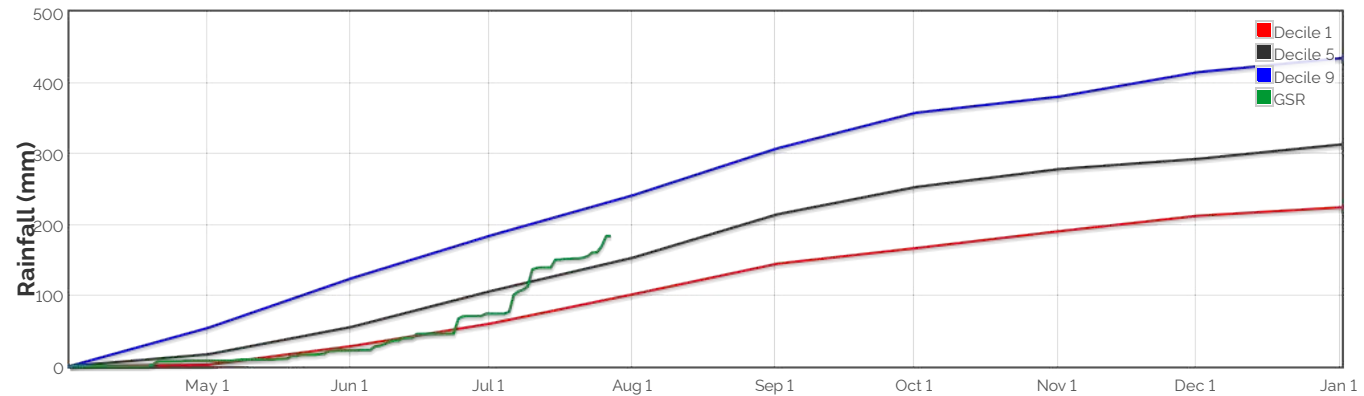


Hay Yield Outcome

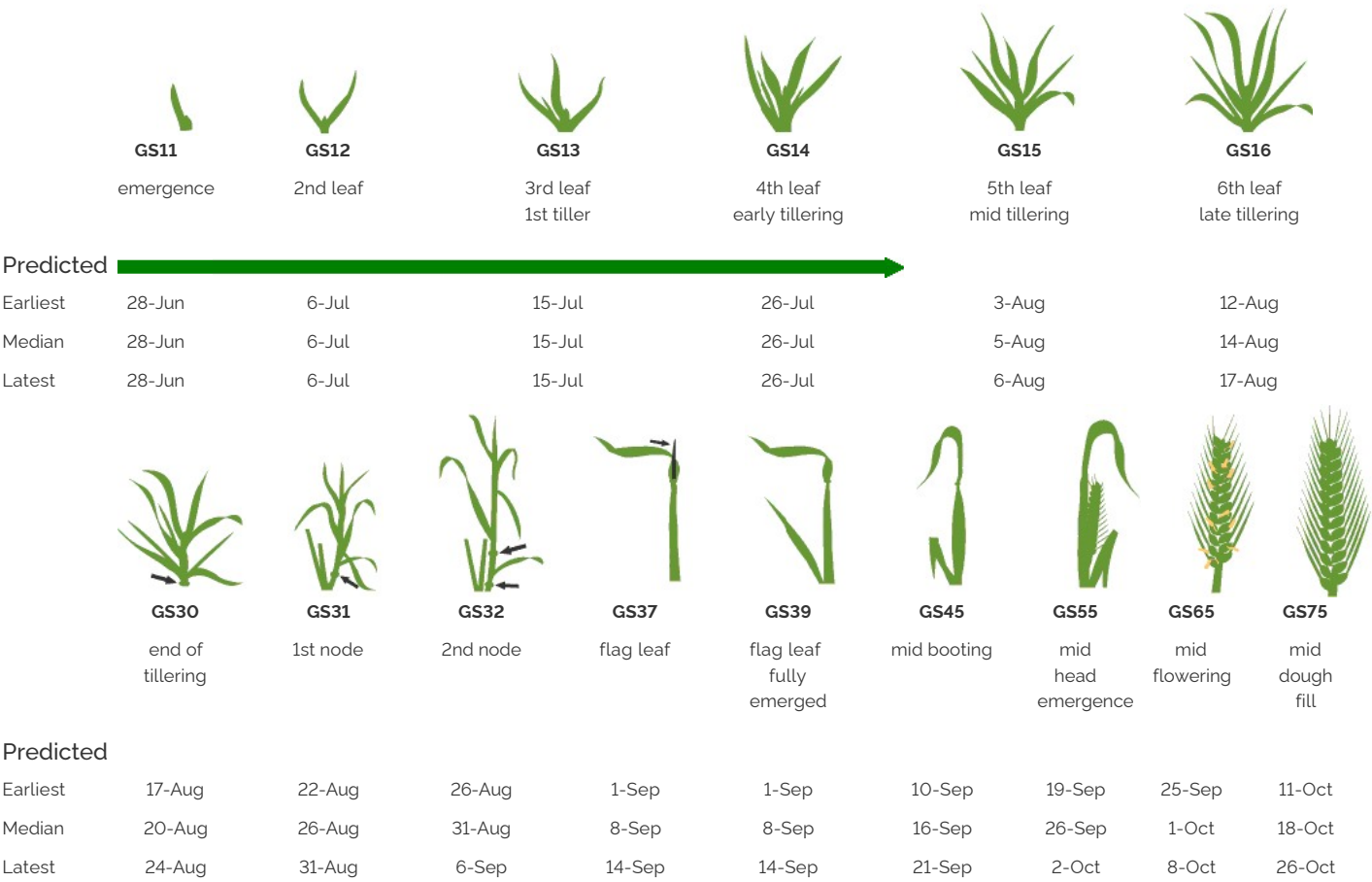


Current dry matter: 368.8777985935991kg/ha





The Season So Far - Growing Season Rainfall Deciles



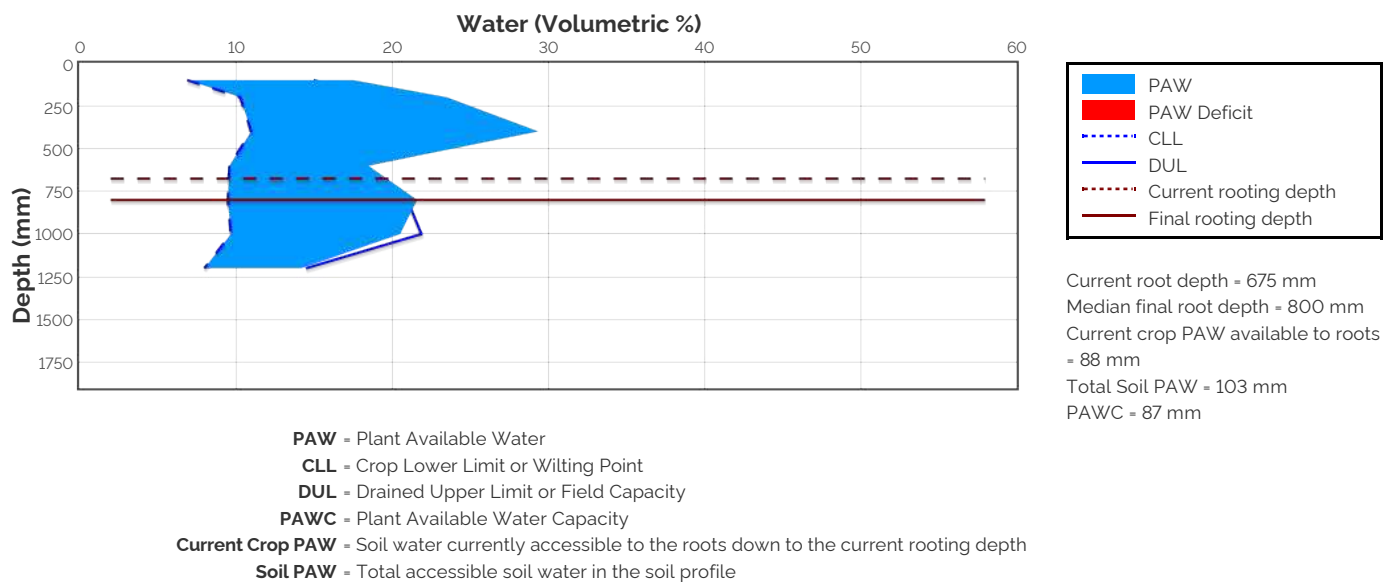
Simulated and Predicted Crop Growth Stage



Probability and Incidence of Frost and Heat Shock

Frost damage during flowering					Heat damage during grain fill				
Probability		This Season			Probability		This Season		
mild			8%	0	mild		69%	0	
2 to 0°C during flowering					32 to 34°C				
moderate			0%	0	moderate		42%	0	
0 to -2°C during flowering & early grain fill					34 to 36°C				
severe		0%	0		severe		31%	0	
Less than -2°C during flowering & grain fill					Above 36°C				

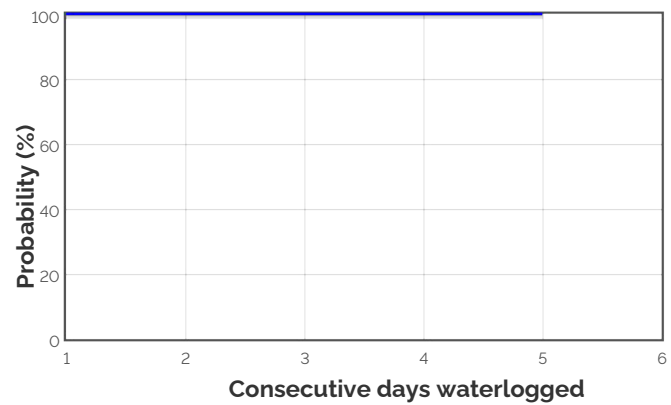
Current Distribution of PAW



Water Budget

Initial PAW status @ 1-Apr	33 mm
Rainfall since 1-Apr	183.6 mm
Irrigations	
Evaporation since 1-Apr	79 mm
Transpiration since 1-Apr	4 mm
Deep drainage since 1-Apr	0 mm
Run-off since 1-Apr	6 mm
Current PAW status:	103 mm

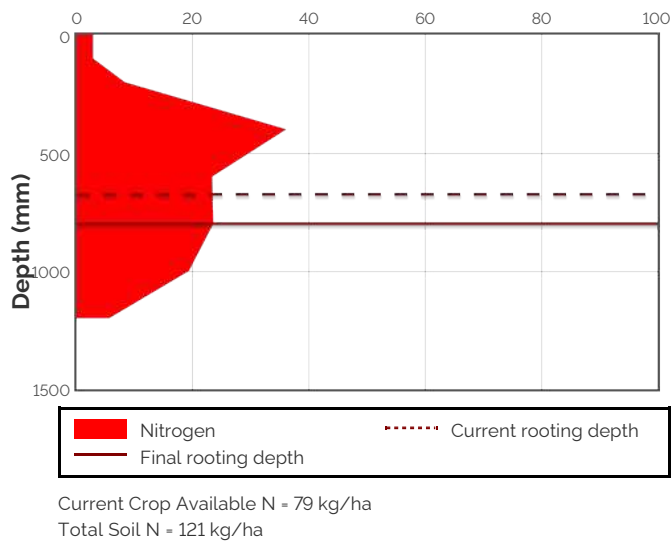
Probability of Future Waterlogging Events



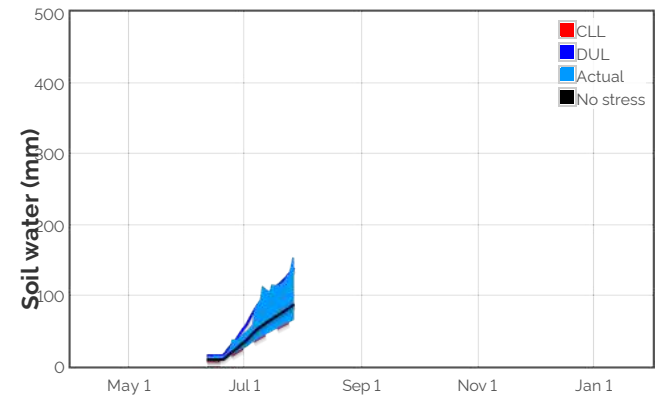
Nitrogen Budget

Initial N status @ 1-Apr	87 kg/ha
N mineralisation since 1-Apr	45 kg/ha
N tie up since 1-Apr	0 kg/ha
N applications	
1-May : 14 kg/ha	
1-Jul : 36.8 kg/ha	
Total N in plant	19 kg/ha
De-nitrification since 1-Apr	0 kg/ha
Leaching since 1-Apr	0 kg/ha
Current N status:	121 kg/ha
Median N mineralisation to maturity	= 60.5636364835352 kg/ha
Median N tie up to maturity	= 0 kg/ha

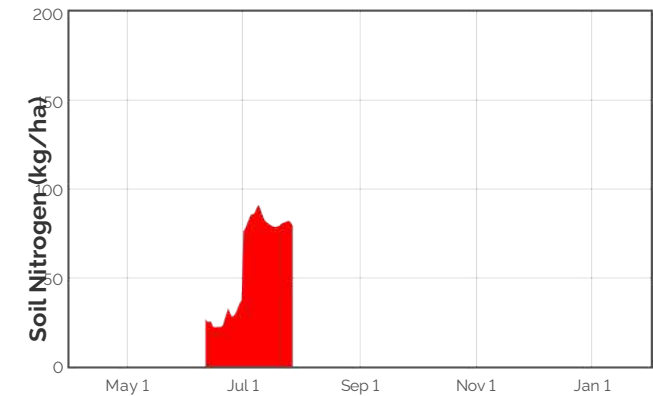
Current distribution of soil nitrogen (kg/ha)



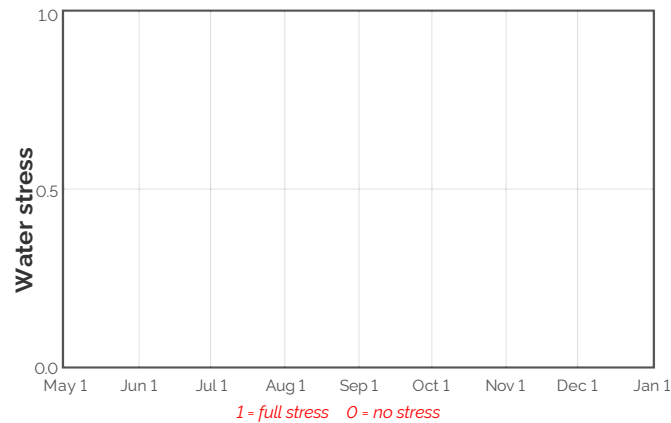
Availability of Water to Growing Roots



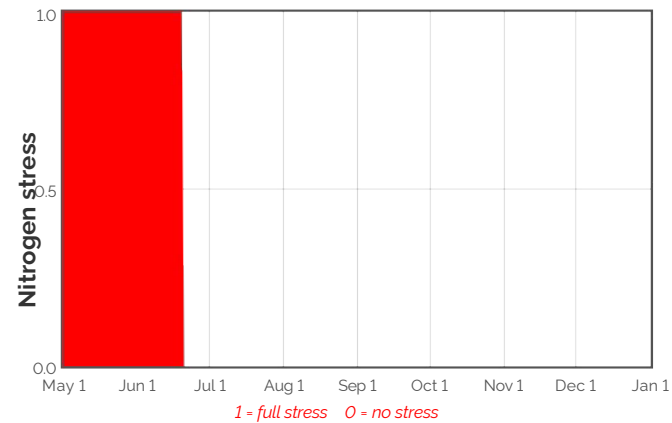
Availability of Soil Nitrogen to Growing Roots



Water Stress



Nitrogen Stress



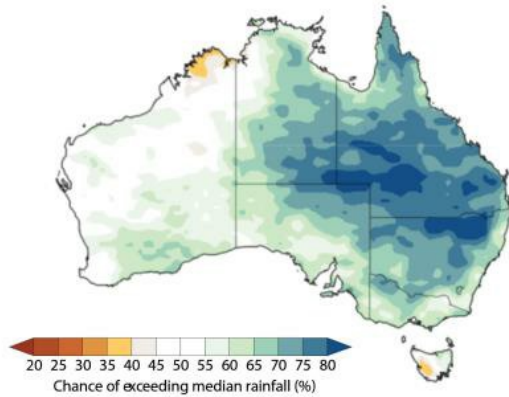
Brief periods of mild to moderate stress do not necessarily lead to reduced yield. To see the likely impacts of additional nitrogen fertiliser rates use the Nitrogen and Nitrogen Profit reports.

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

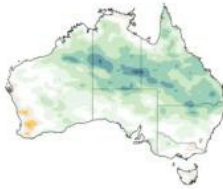
Date	Growth Stage	Evap. (mm)	Water use (mm)	N use (kg/ha)	Water avail. to roots above stress threshold (mm)	Water avail. to roots above CLL (mm)	N avail. to roots (kg/ha)	Mineralisation (kg/ha)	N tie up (kg/ha)
29-Jul	14.4	1.2	0.5	-1.6	63.0	85.4	77.8	0.3	0.0
30-Jul	14.5	1.0	0.5	-1.8	60.5	83.7	76.4	0.3	0.0
31-Jul	14.6	0.7	0.6	-2.0	58.7	82.3	75.5	0.3	0.0
1-Aug	14.7	0.6	0.6	-2.1	57.4	81.5	74.6	0.3	0.0
2-Aug	14.8	0.5	0.7	-2.1	56.8	81.3	73.8	0.3	0.0
3-Aug	14.9	0.4	0.7	-2.2	56.4	81.5	73.1	0.3	0.0
4-Aug	15.0	0.4	0.7	-2.5	56.4	81.9	72.2	0.3	0.0
5-Aug	15.1	0.4	0.8	-2.7	56.3	82.3	71.1	0.3	0.0
6-Aug	15.2	0.3	0.8	-2.8	55.7	81.8	69.0	0.3	0.0
7-Aug	15.3	0.3	0.8	-2.9	54.8	81.0	66.2	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.

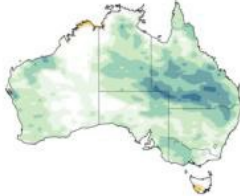
3 MONTH RAINFALL OUTLOOK FOR
AUGUST TO OCTOBER



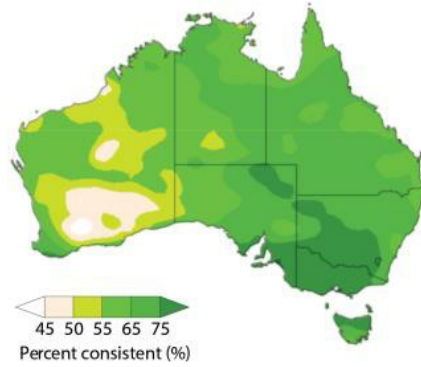
AUGUST
RAINFALL OUTLOOK



SEPTEMBER
RAINFALL OUTLOOK



PAST ACCURACY FOR
AUGUST TO OCTOBER



PAST ACCURACY FOR
AUGUST



PAST ACCURACY FOR
SEPTEMBER

