



Crop Report

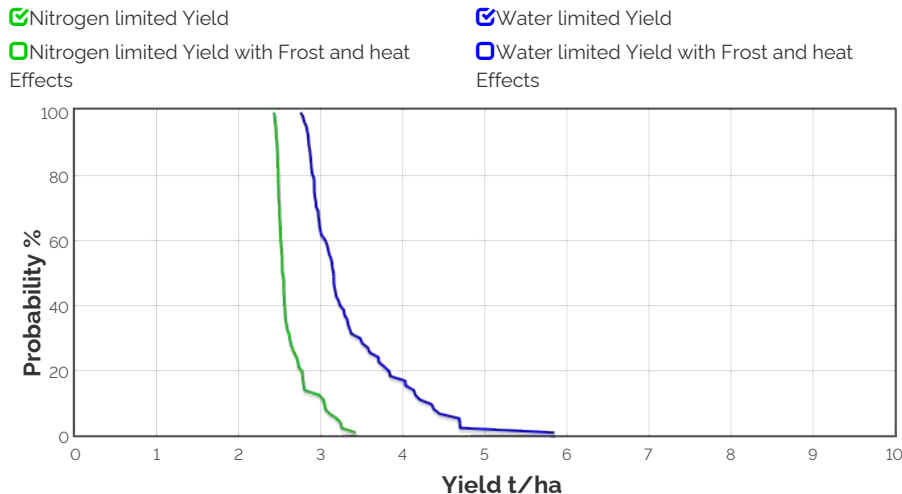
19-Sep-2025

Andrew H Ware: Lock

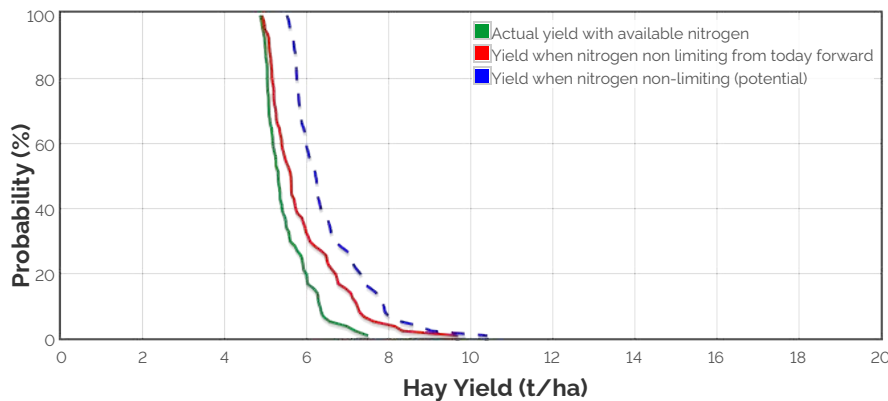
Crop: Wheat
Cultivar: Calibre
Sowing details: 150 plants/m² on 10-Jun
Expected maturity date: 2-Dec

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

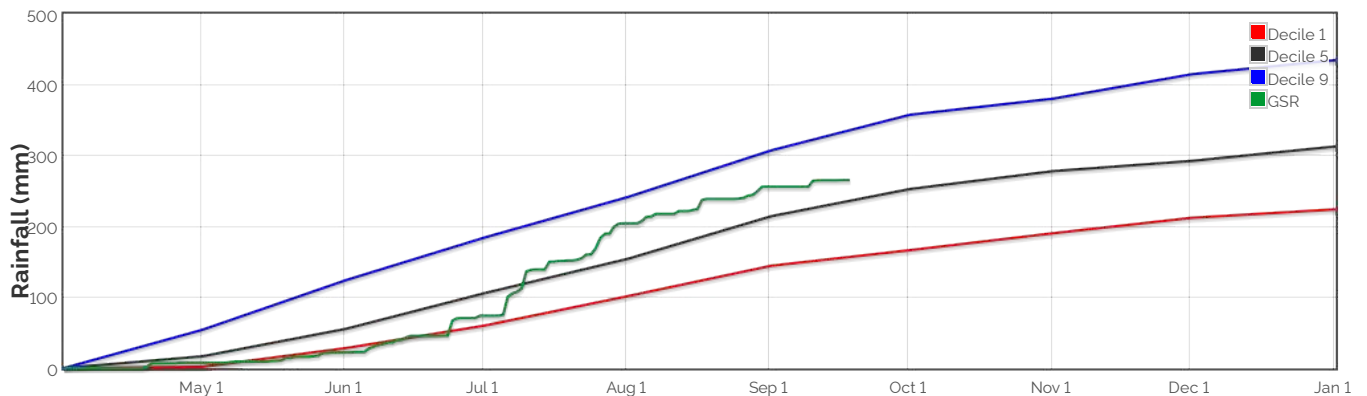


Hay Yield Outcome

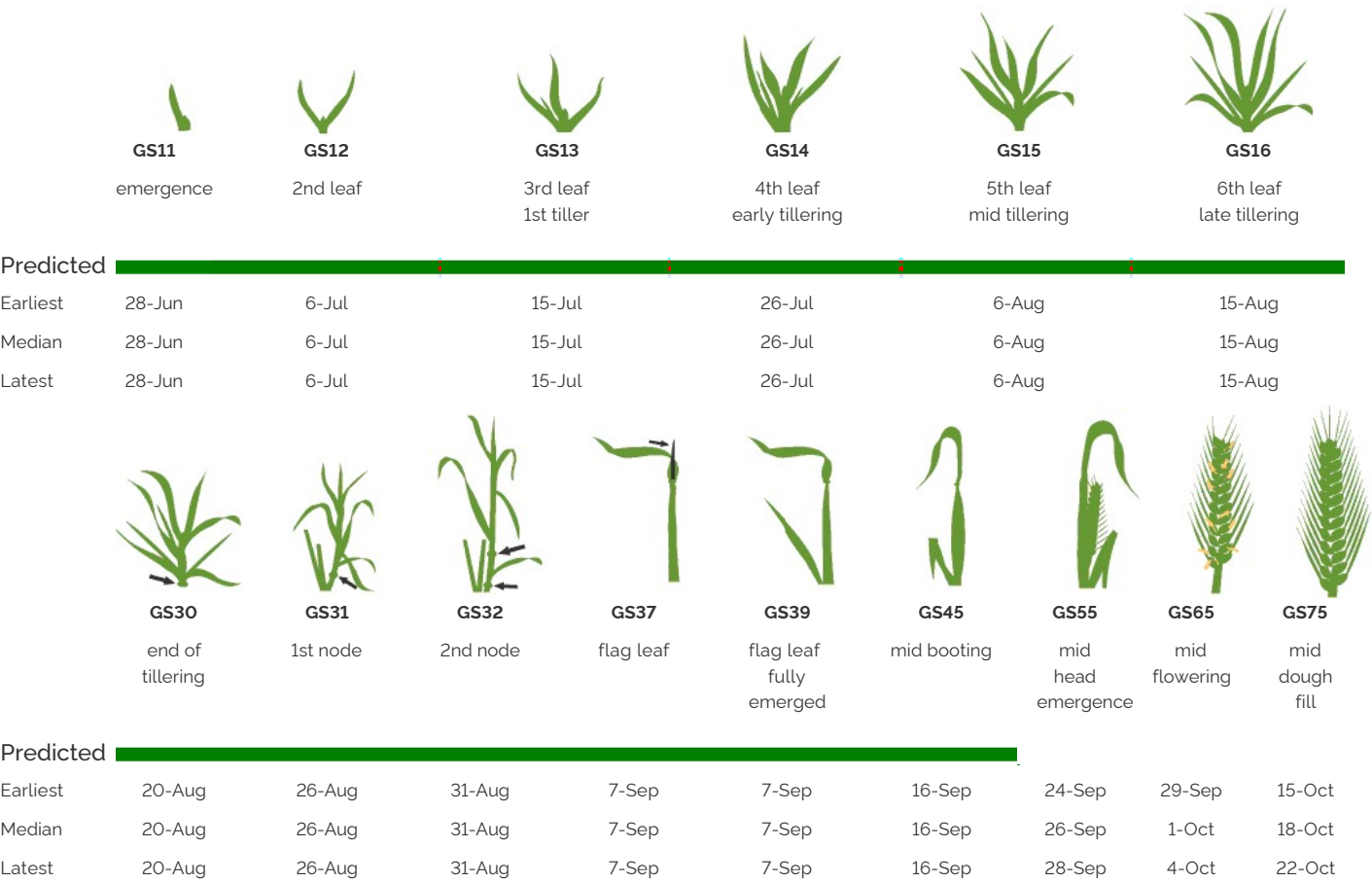


Current dry matter: 5013.425359256204kg/ha





The Season So Far - Growing Season Rainfall Deciles



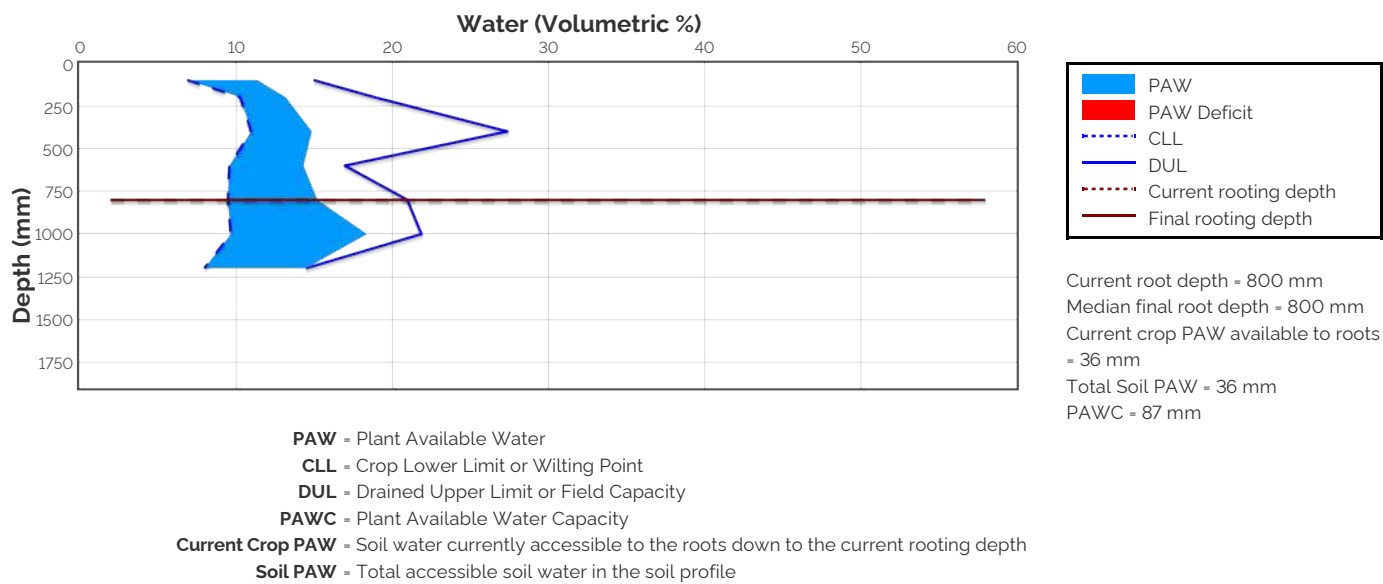
Simulated and Predicted Crop Growth Stage



Probability and Incidence of Frost and Heat Shock

Frost damage during flowering					Heat damage during grain fill				
Probability		This Season			Probability		This Season		
mild			7%	0	mild		66%	0	
2 to 0°C during flowering					32 to 34°C				
moderate			0%	0	moderate		40%	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				

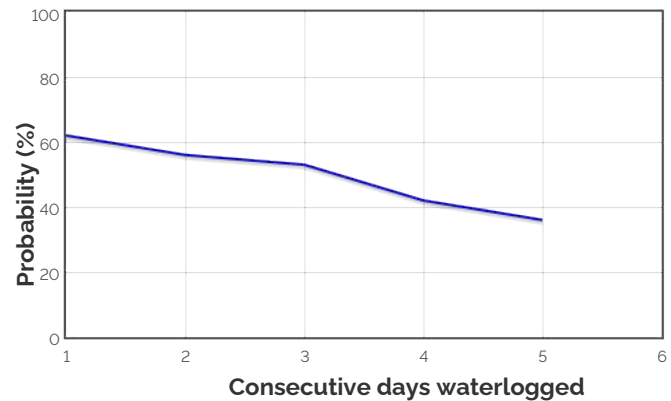
Current Distribution of PAW



Water Budget

Initial PAW status @ 1-Apr	33 mm
Rainfall since 1-Apr	265.7 mm
Irrigations	
Evaporation since 1-Apr	121 mm
Transpiration since 1-Apr	108 mm
Deep drainage since 1-Apr	22 mm
Run-off since 1-Apr	6 mm
Current PAW status:	36 mm

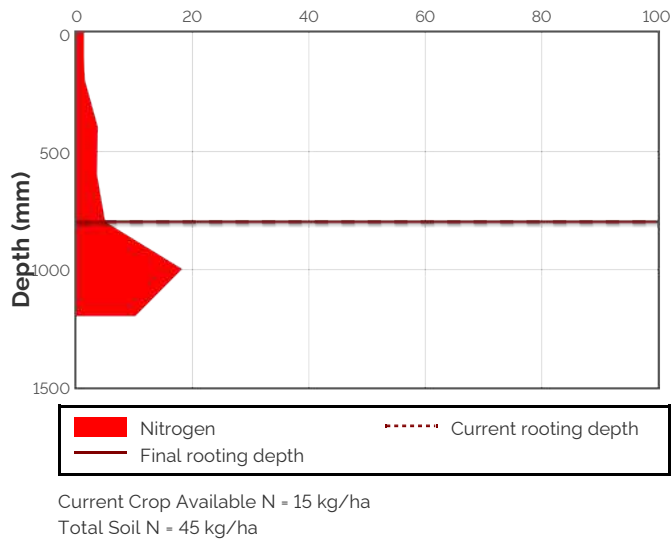
Probability of Future Waterlogging Events



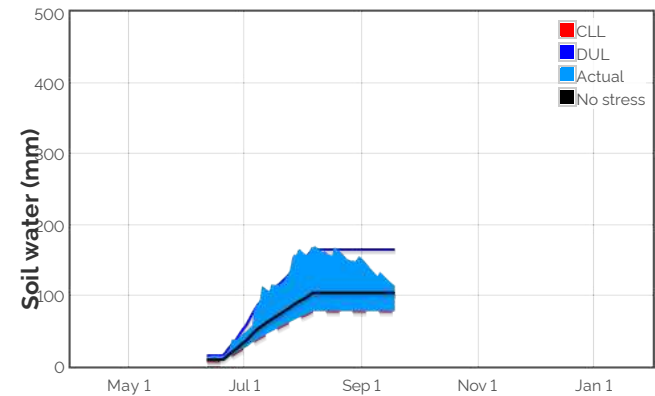
Nitrogen Budget

Initial N status @ 1-Apr	87 kg/ha
N mineralisation since 1-Apr	61 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	89 kg/ha
De-nitrification since 1-Apr	0 kg/ha
Leaching since 1-Apr	7 kg/ha
Current N status:	45 kg/ha
Median N mineralisation to maturity	= 60.27548226171 kg/ha
Median N tie up to maturity	= 0 kg/ha

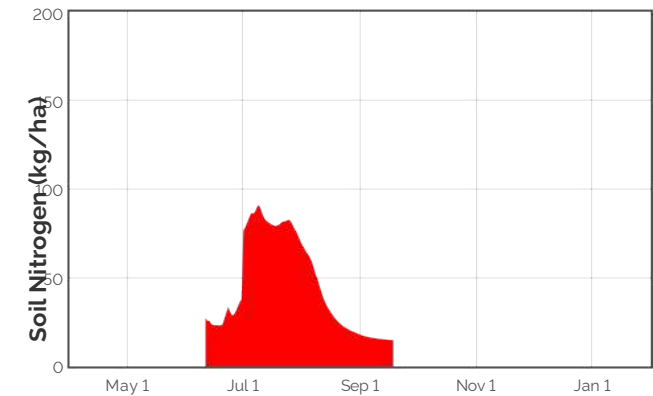
Current distribution of soil nitrogen (kg/ha)



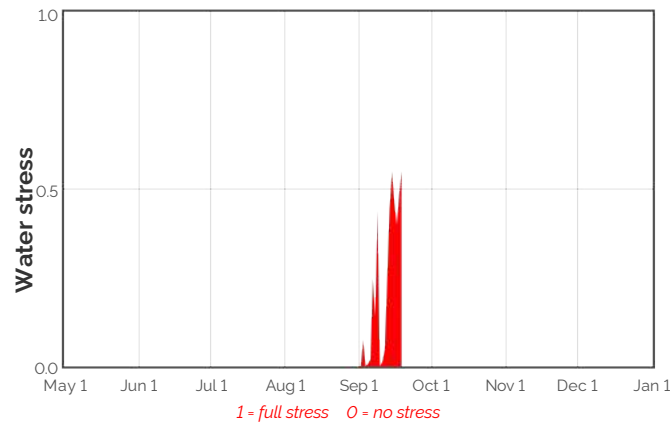
Availability of Water to Growing Roots



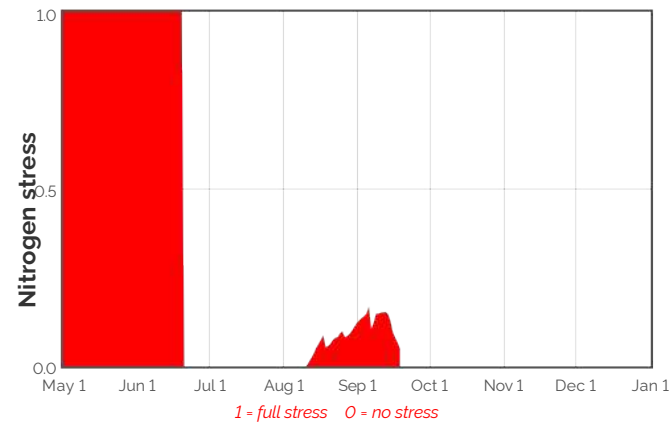
Availability of Soil Nitrogen to Growing Roots



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.

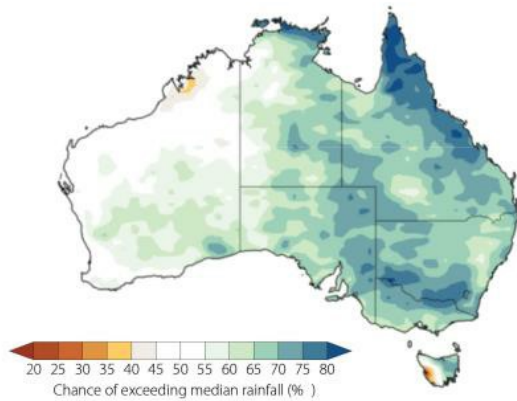
Median projected crop performance and requirements for the next 10 days assuming no rain and no added fertiliser

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	49.6	0.6	3.2	-0.2	8.0	34.2	14.7	0.3	0.0
21-Sep	50.6	0.5	3.0	-0.2	6.2	32.4	14.6	0.4	0.0
22-Sep	51.6	0.5	3.1	-0.2	4.5	30.7	14.6	0.4	0.0
23-Sep	52.7	0.4	3.1	-0.2	3.0	29.1	14.6	0.4	0.0
24-Sep	53.8	0.4	2.8	-0.2	1.5	27.7	14.5	0.4	0.0
25-Sep	54.8	0.4	3.0	-0.2	0.1	26.3	14.5	0.4	0.0
26-Sep	56.5	0.3	2.9	-0.2	-1.2	25.0	14.5	0.4	0.0
27-Sep	58.1	0.3	3.2	-0.2	-2.4	23.8	14.5	0.4	0.0
28-Sep	59.9	0.3	3.3	-0.2	-3.5	22.7	14.5	0.4	0.0
29-Sep	61.8	0.3	2.8	-0.2	-4.6	21.6	14.5	0.4	0.0

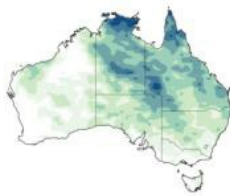
The water available to roots above the stress threshold is the amount of PAW (mm) above one third of the total water holding capacity of this soil. If the water values are below this stress threshold the water available to roots above the stress threshold will be negative.

Bureau of Meteorology Seasonal and Monthly Outlooks

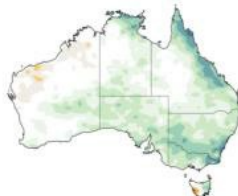
3 MONTH RAINFALL OUTLOOK FOR OCTOBER TO DECEMBER



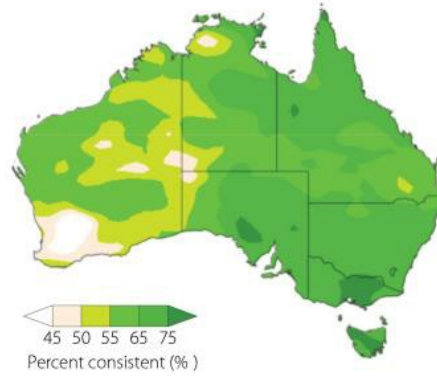
OCTOBER RAINFALL OUTLOOK



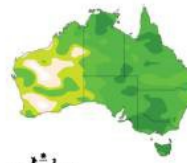
NOVEMBER RAINFALL OUTLOOK



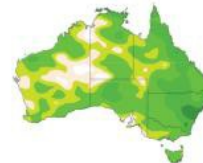
PAST ACCURACY FOR OCTOBER TO DECEMBER



PAST ACCURACY FOR OCTOBER



PAST ACCURACY FOR NOVEMBER




Australian Government
Bureau of Meteorology

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