

Crop Report

19-Sep-2025

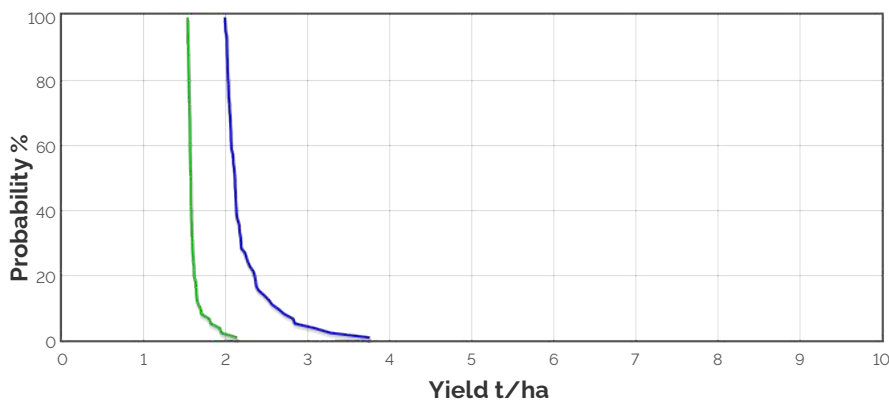
Andrew H Ware: Heddle
Minnipa

Crop: Wheat
Cultivar: Calibre
Sowing details: 150 plants/m² on 9-Jun
Expected maturity date: 29-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

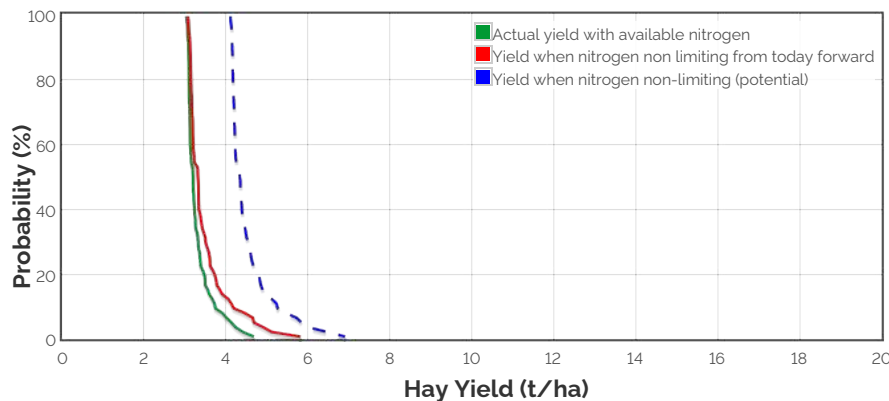
Grain Yield Outcome

- ☒ Nitrogen limited Yield
☐ Nitrogen limited Yield with Frost and heat Effects
☒ Water limited Yield
☐ Water limited Yield with Frost and heat Effects



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.

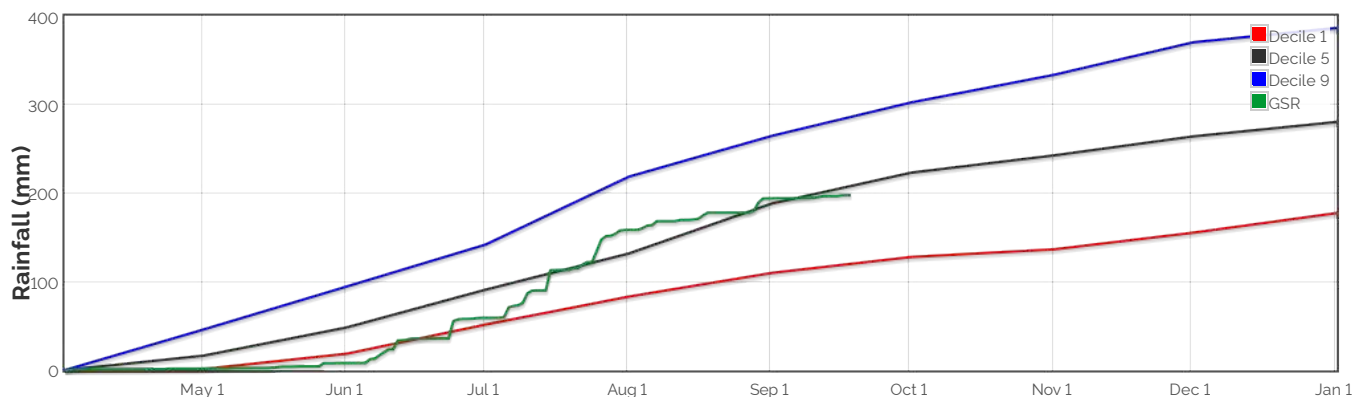
Hay Yield Outcome



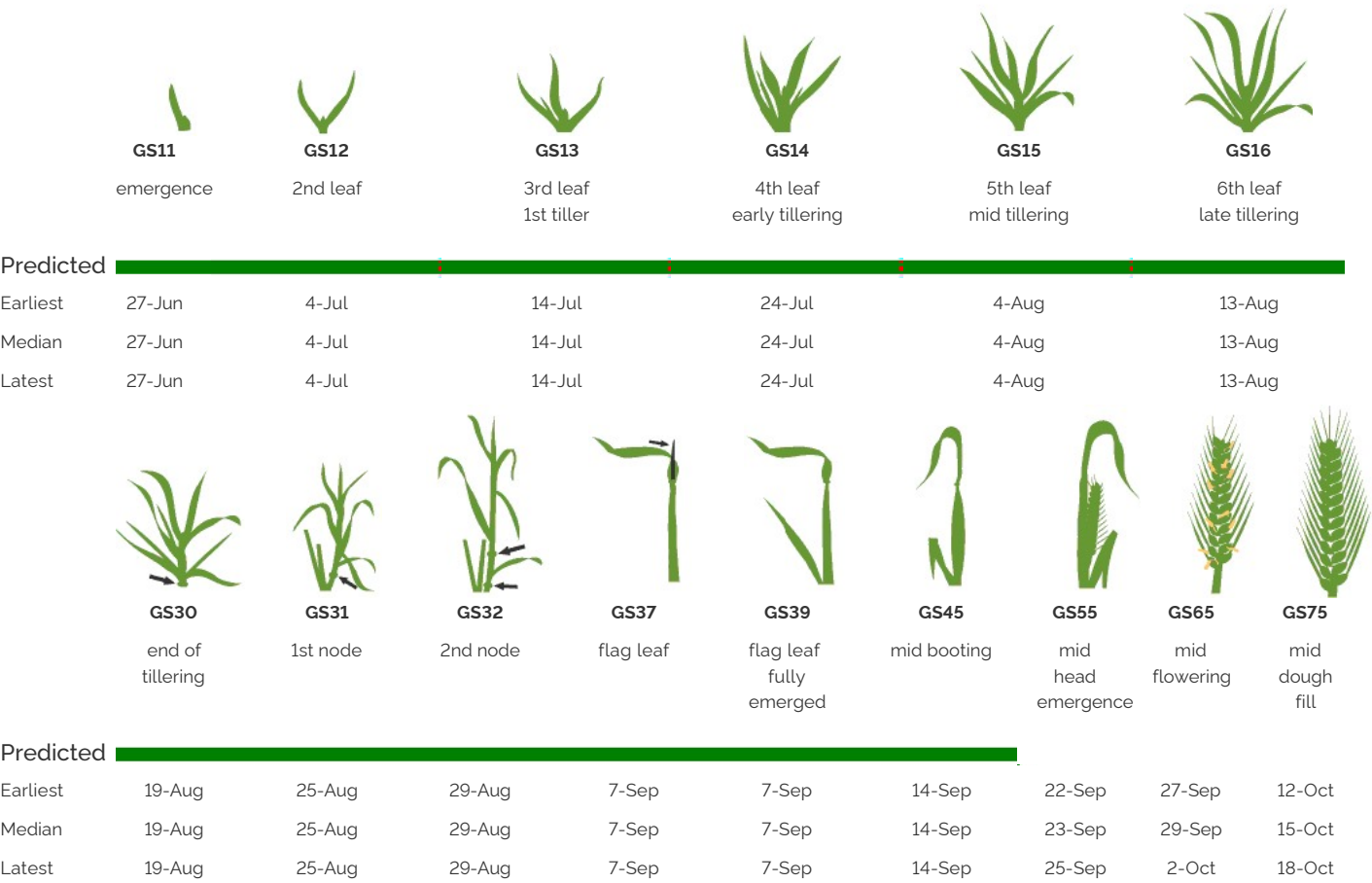
This graph shows the probability of exceeding a range of hay yield outcomes this season. It takes into account the same factors as the grain yield graph above. When above ground dry matter is below 2t/ha, hay yield is assumed to be 70% of dry matter, with a moisture content of 13%. When dry matter is 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: 3484.73200583902kg/ha

The Season So Far - Growing Season Rainfall Deciles



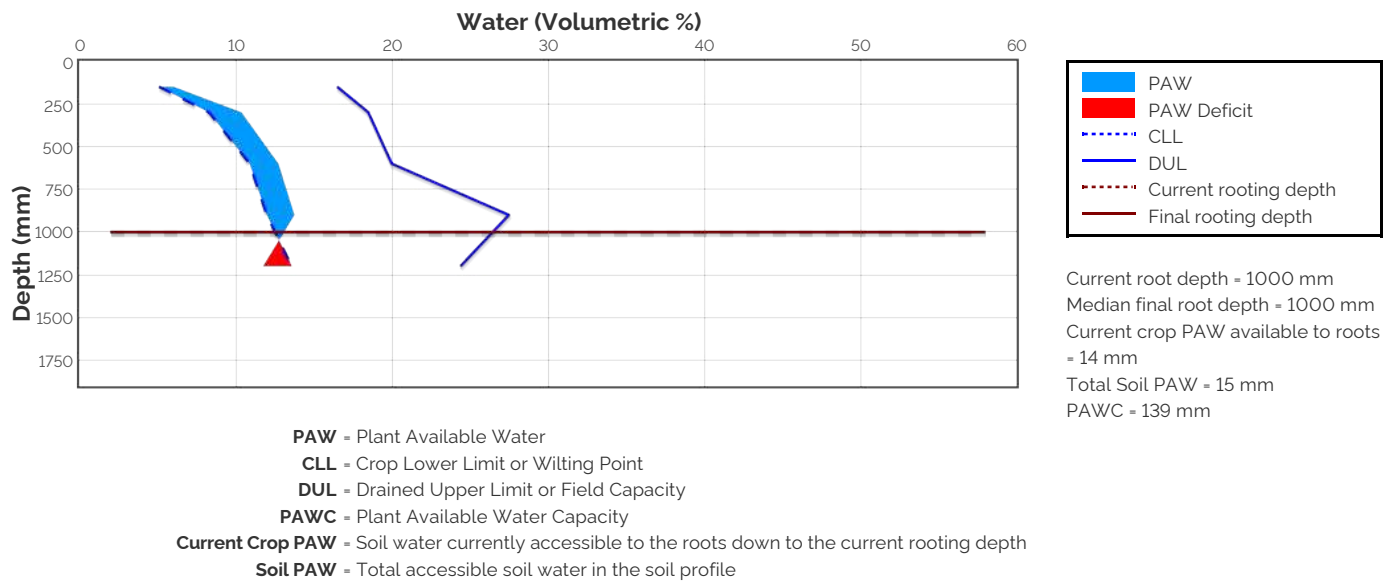
Simulated and Predicted Crop Growth Stage



Probability and Incidence of Frost and Heat Shock

Frost damage during flowering					Heat damage during grain fill				
Probability		This Season			Probability		This Season		
mild	<div></div>		4%	0	mild	<div></div>	69%	0	
2 to 0°C during flowering					32 to 34°C				
moderate	<div></div>		0%	0	moderate	<div></div>	46%	0	
0 to -2°C during flowering & early grain fill					34 to 36°C				
severe	<div></div>	0%	0		severe	<div></div>	33%	0	
Less than -2°C during flowering & grain fill					Above 36°C				

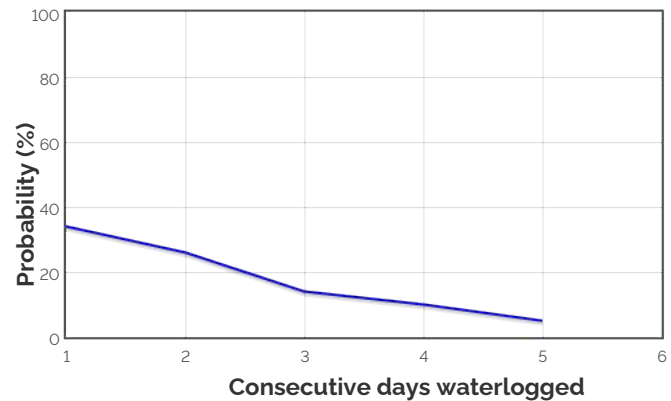
Current Distribution of PAW



Water Budget

Initial PAW status @ 20-May	2 mm
Rainfall since 20-May	193.7 mm
Irrigations	
Evaporation since 20-May	101 mm
Transpiration since 20-May	99 mm
Deep drainage since 20-May	0 mm
Run-off since 20-May	1 mm
Current PAW status:	15 mm

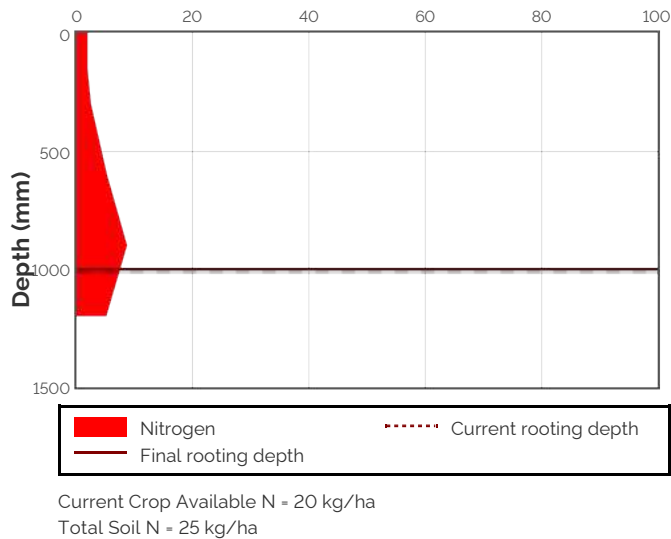
Probability of Future Waterlogging Events



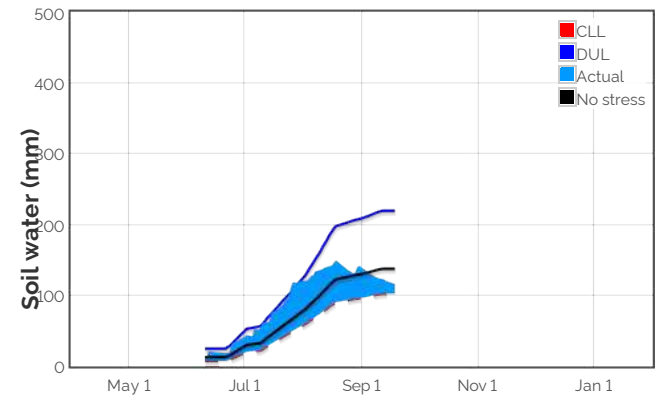
Nitrogen Budget

Initial N status @ 20-May	58 kg/ha
N mineralisation since 20-May	20 kg/ha
N tie up since 20-May	0 kg/ha
N applications	
1-May : 30 kg/ha	
Total N in plant	57 kg/ha
De-nitrification since 20-May	0 kg/ha
Leaching since 20-May	0 kg/ha
Current N status:	25 kg/ha
Median N mineralisation to maturity = 32.2439721220058 kg/ha	
Median N tie up to maturity = 0 kg/ha	

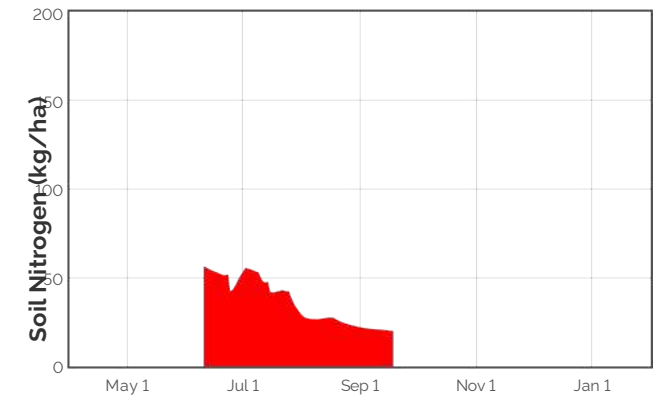
Current distribution of soil nitrogen (kg/ha)



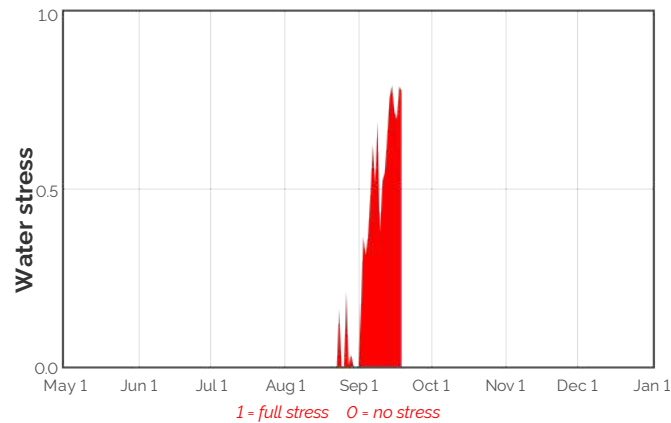
Availability of Water to Growing Roots



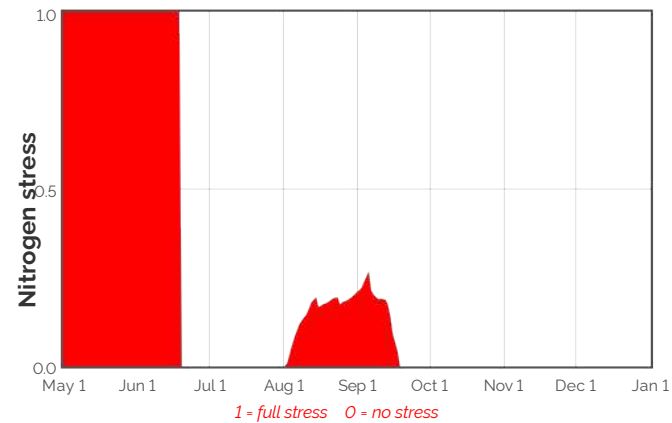
Availability of Soil Nitrogen to Growing Roots



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.

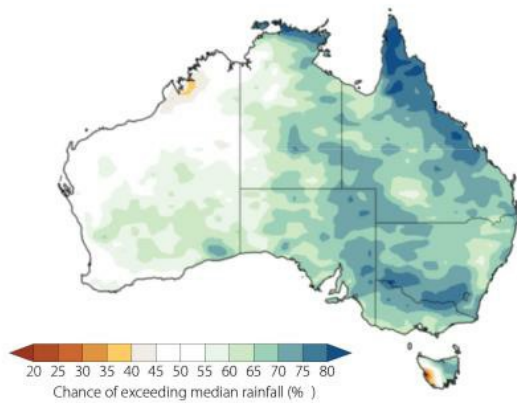
Median projected crop performance and requirements for the next 10 days assuming no rain and no added fertiliser

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	52.2	0.3	2.7	-0.1	-22.5	12.6	19.8	0.2	0.0
21-Sep	53.3	0.3	2.5	-0.1	-23.3	11.8	19.7	0.2	0.0
22-Sep	54.3	0.3	2.5	-0.1	-24.1	11.0	19.6	0.2	0.0
23-Sep	55.8	0.2	2.6	-0.1	-24.9	10.2	19.6	0.2	0.0
24-Sep	57.6	0.2	2.2	-0.1	-25.6	9.5	19.5	0.2	0.0
25-Sep	59.4	0.2	2.3	-0.1	-26.2	8.9	19.4	0.2	0.0
26-Sep	61.2	0.2	2.2	-0.1	-26.9	8.2	19.3	0.2	0.0
27-Sep	63.1	0.2	2.3	-0.1	-27.5	7.6	19.3	0.2	0.0
28-Sep	64.8	0.2	2.1	-0.1	-28.1	7.0	19.2	0.2	0.0
29-Sep	65.8	0.2	1.8	-0.1	-28.7	6.4	19.2	0.2	0.0

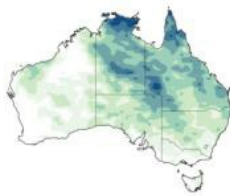
The water available to roots above the stress threshold is the amount of PAW (mm) above one third of the total water holding capacity of this soil. If the water values are below this stress threshold the water available to roots above the stress threshold will be negative.

Bureau of Meteorology Seasonal and Monthly Outlooks

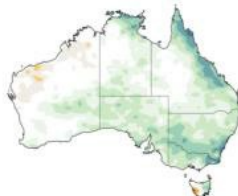
3 MONTH RAINFALL OUTLOOK FOR OCTOBER TO DECEMBER



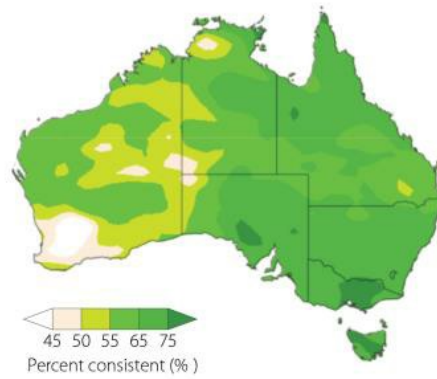
OCTOBER RAINFALL OUTLOOK



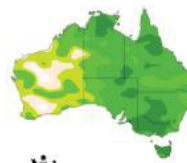
NOVEMBER RAINFALL OUTLOOK



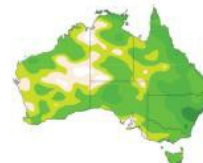
PAST ACCURACY FOR OCTOBER TO DECEMBER



PAST ACCURACY FOR OCTOBER



PAST ACCURACY FOR NOVEMBER




Australian Government
Bureau of Meteorology

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