

Crop Report

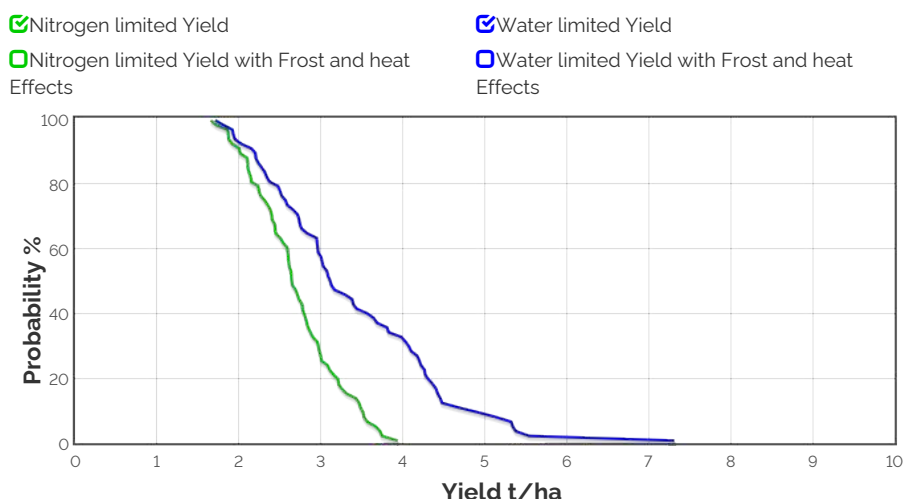
28-Jul-2025

Andrew H Ware: Port
Kenny

Crop: Wheat
Cultivar: Calibre
Sowing details: 150 plants/m² on 16-Jun
Expected maturity date: 4-Dec

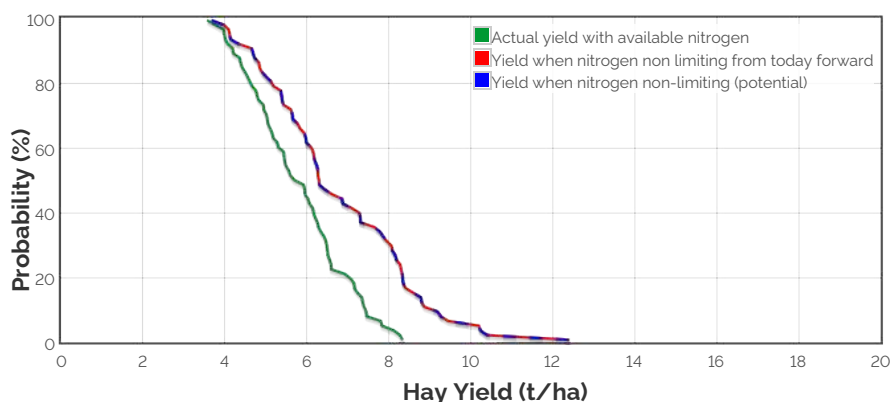
Paddock Details
Initial conditions date: 1-Apr
Soil: Grey Calcareous Sandy Loam
(Piednippie No303)
700 mm max rooting depth
Stubble: 500 kg/ha of Medic
No till

Grain Yield Outcome



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.

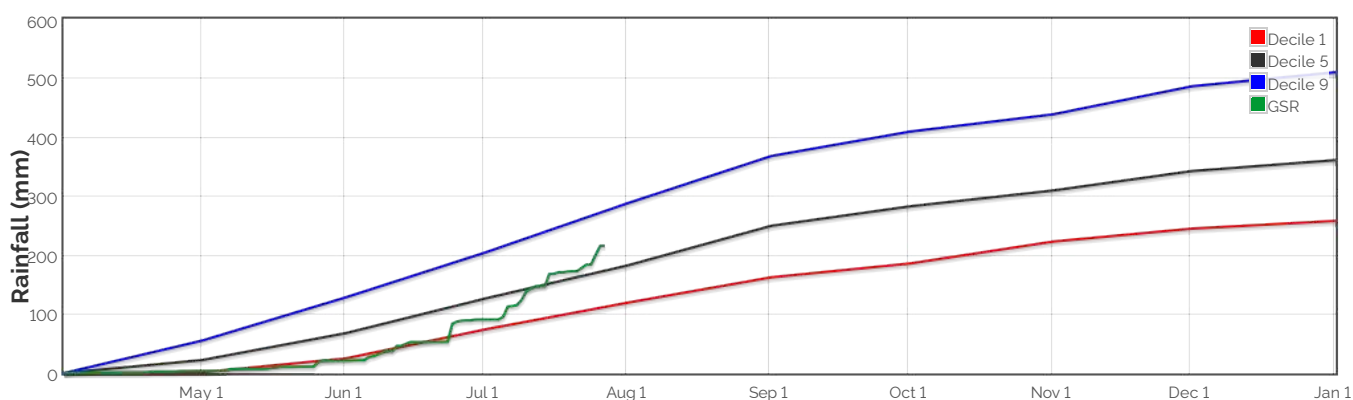
Hay Yield Outcome



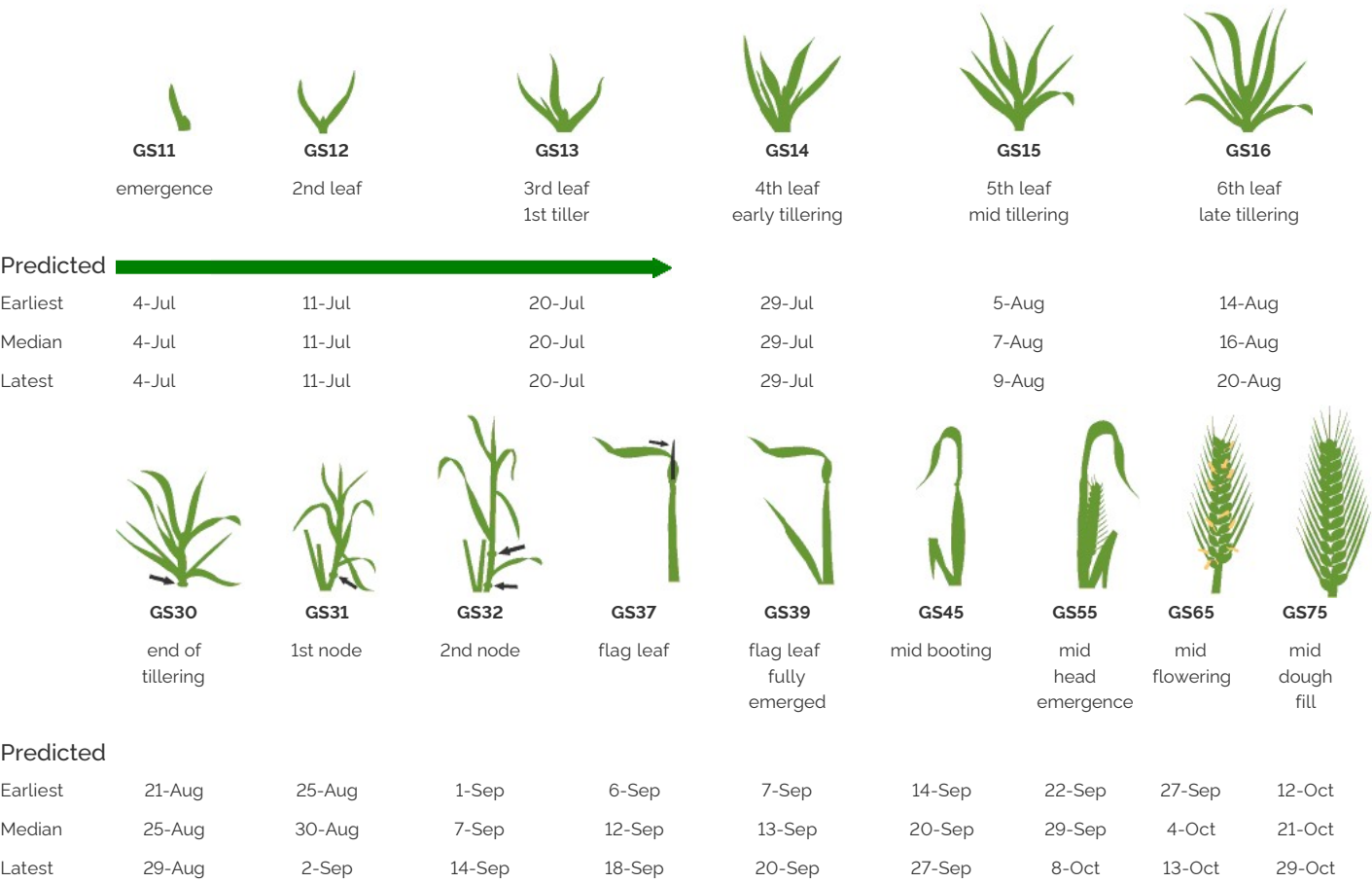
This graph shows the probability of exceeding a range of hay yield outcomes this season. It takes into account the same factors as the grain yield graph above. When above ground dry matter is below 2t/ha, hay yield is assumed to be 70% of dry matter, with a moisture content of 13%. When dry matter is 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: 246.1307658926491kg/ha

The Season So Far - Growing Season Rainfall Deciles



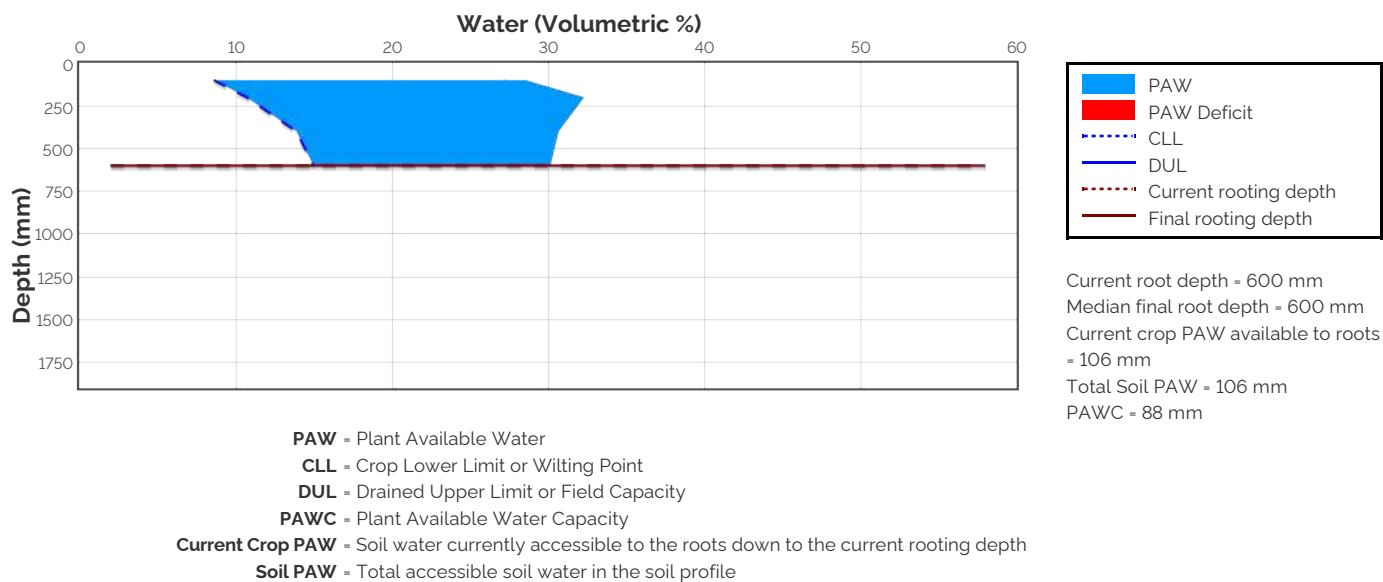
Simulated and Predicted Crop Growth Stage



Probability and Incidence of Frost and Heat Shock

Frost damage during flowering				Heat damage during grain fill			
Probability		This Season		Probability		This Season	
mild 2 to 0°C during flowering	<div></div>	0%	0	mild 32 to 34°C	<div></div>	56%	0
moderate 0 to -2°C during flowering & early grain fill		0%	0	moderate 34 to 36°C	<div></div>	36%	0
severe Less than -2°C during flowering & grain fill		0%	0	severe Above 36°C	<div></div>	26%	0

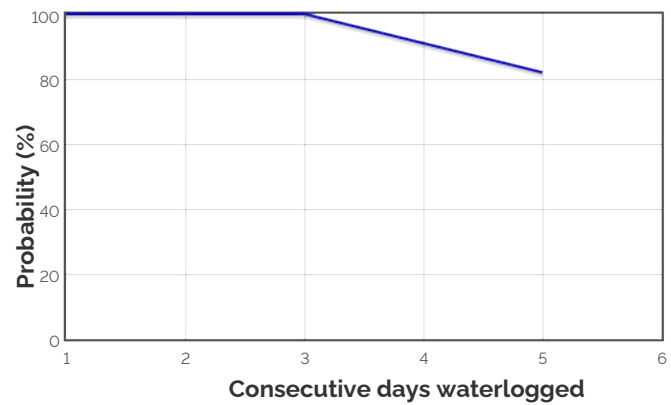
Current Distribution of PAW



Water Budget

Initial PAW status @ 1-Apr	6 mm
Rainfall since 1-Apr	215.8 mm
Irrigations	
Evaporation since 1-Apr	83 mm
Transpiration since 1-Apr	3 mm
Deep drainage since 1-Apr	24 mm
Run-off since 1-Apr	4 mm
Current PAW status:	106 mm

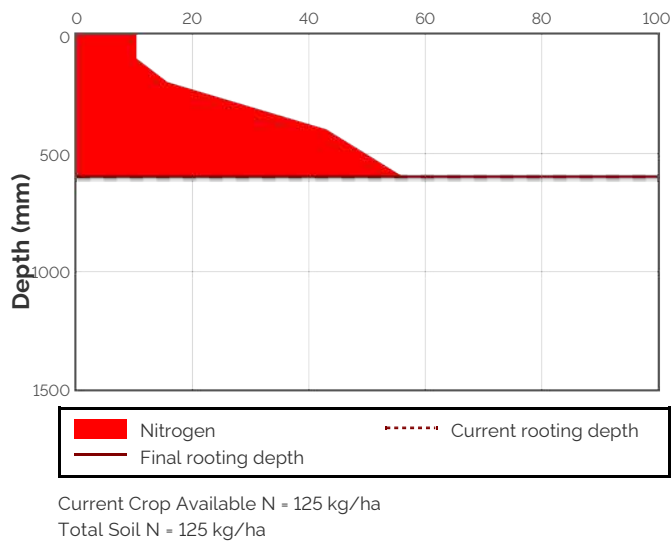
Probability of Future Waterlogging Events



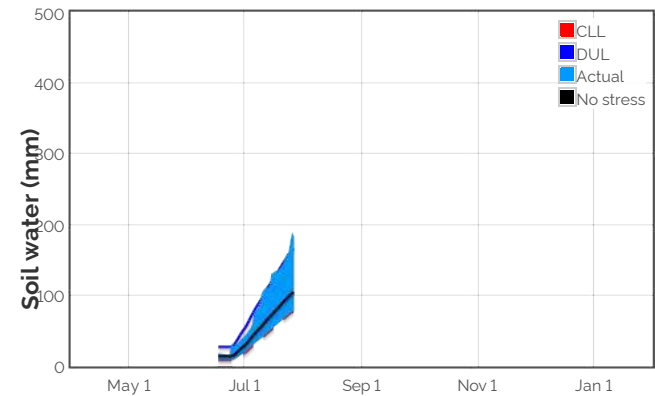
Nitrogen Budget

Initial N status @ 1-Apr	114 kg/ha
N mineralisation since 1-Apr	64 kg/ha
N tie up since 1-Apr	0 kg/ha
N applications	
10-May : 16 kg/ha	
15-Jul : 40 kg/ha	
Total N in plant	13 kg/ha
De-nitrification since 1-Apr	0 kg/ha
Leaching since 1-Apr	23 kg/ha
Current N status:	125 kg/ha
Median N mineralisation to maturity = 71.1093034696381 kg/ha	
Median N tie up to maturity = 0 kg/ha	

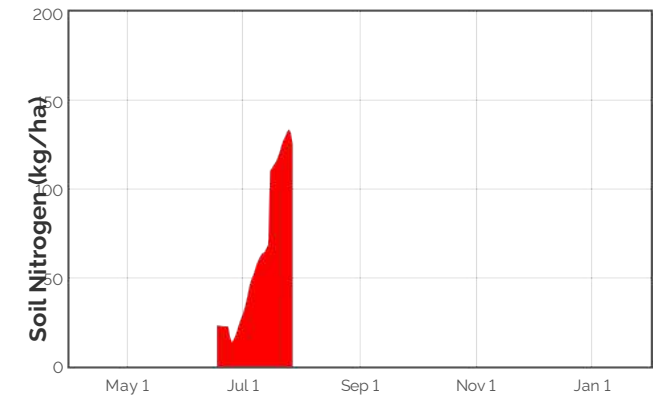
Current distribution of soil nitrogen (kg/ha)



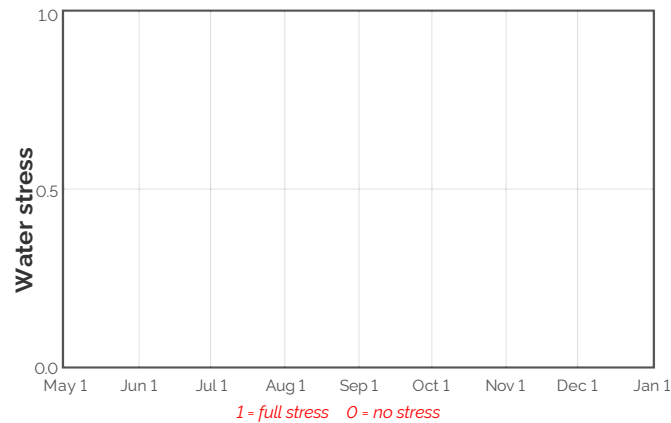
Availability of Water to Growing Roots



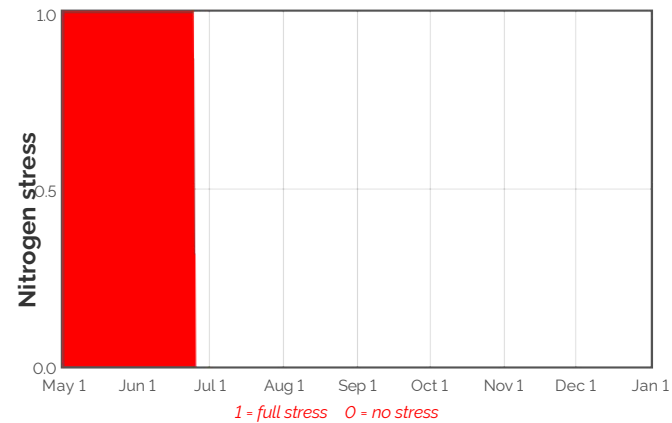
Availability of Soil Nitrogen to Growing Roots



Water Stress



Nitrogen Stress



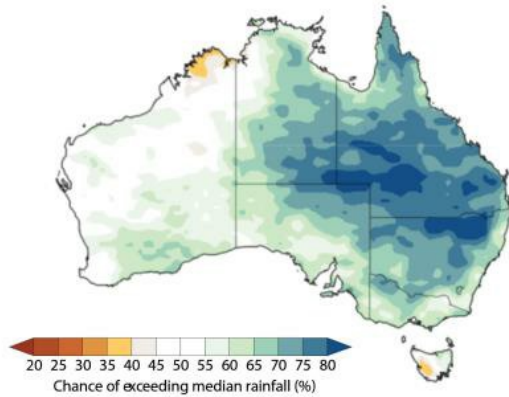
Brief periods of mild to moderate stress do not necessarily lead to reduced yield. To see the likely impacts of additional nitrogen fertiliser rates use the Nitrogen and Nitrogen Profit reports.

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

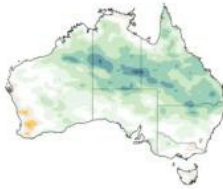
Date	Growth Stage	Evap. (mm)	Water use (mm)	N use (kg/ha)	Water avail. to roots above stress threshold (mm)	Water avail. to roots above CLL (mm)	N avail. to roots (kg/ha)	Mineralisation (kg/ha)	N tie up (kg/ha)
29-Jul	14.0	1.3	0.3	-1.3	73.0	99.4	119.1	0.4	0.0
30-Jul	14.2	0.8	0.3	-1.5	67.9	94.2	114.1	0.4	0.0
31-Jul	14.3	0.6	0.4	-1.7	64.4	90.8	110.3	0.4	0.0
1-Aug	14.4	0.5	0.4	-1.8	62.1	88.4	107.2	0.4	0.0
2-Aug	14.5	0.5	0.5	-1.9	60.5	86.8	104.6	0.4	0.0
3-Aug	14.6	0.4	0.5	-2.0	59.3	85.6	102.5	0.4	0.0
4-Aug	14.7	0.4	0.6	-2.2	58.4	84.7	100.2	0.4	0.0
5-Aug	14.8	0.4	0.6	-2.3	57.4	83.8	98.0	0.4	0.0
6-Aug	14.9	0.3	0.7	-2.4	56.3	82.7	95.6	0.4	0.0
7-Aug	15.0	0.3	0.7	-2.7	55.4	81.8	93.0	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.

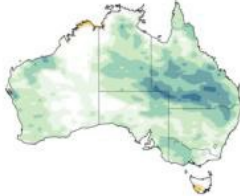
3 MONTH RAINFALL OUTLOOK FOR
AUGUST TO OCTOBER



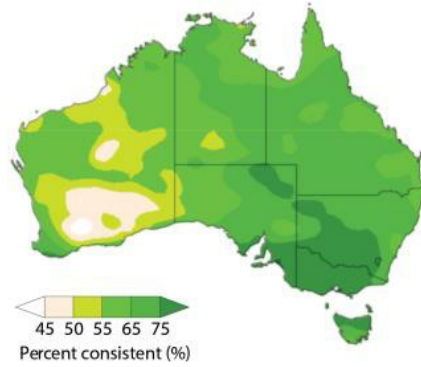
AUGUST
RAINFALL OUTLOOK



SEPTEMBER
RAINFALL OUTLOOK



PAST ACCURACY FOR
AUGUST TO OCTOBER



PAST ACCURACY FOR
AUGUST



PAST ACCURACY FOR
SEPTEMBER

