

Crop Report

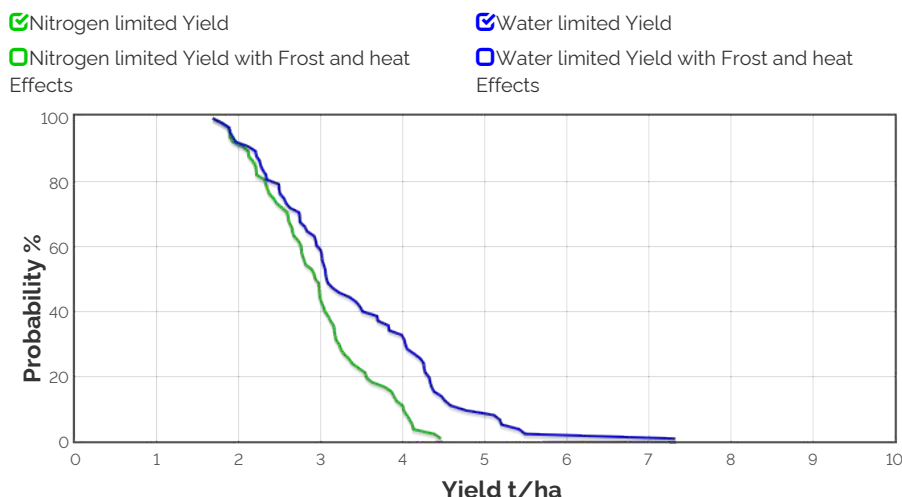
25-Jul-2025

Andrew H Ware: Port
Kenny

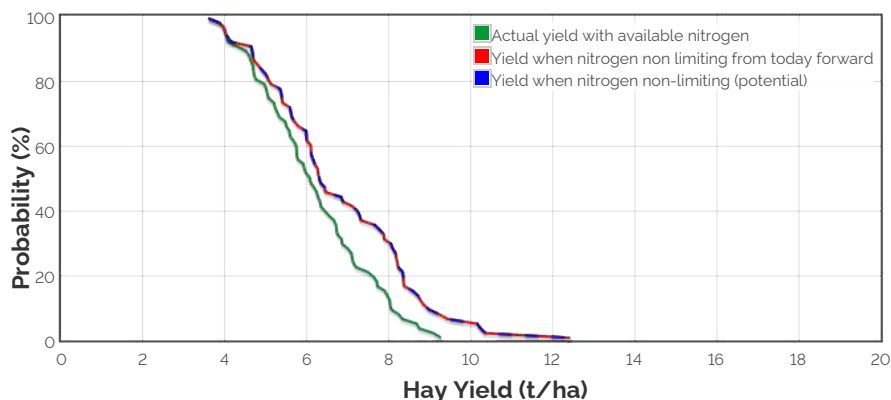
Crop: Wheat
Cultivar: Calibre
Sowing details: 150 plants/m² on 16-Jun
Expected maturity date: 4-Dec

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

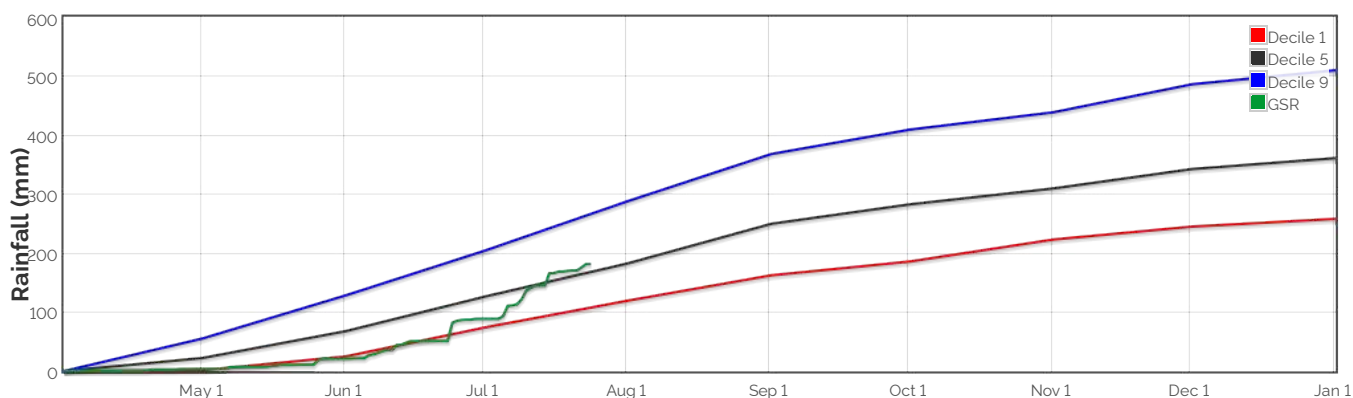


Hay Yield Outcome

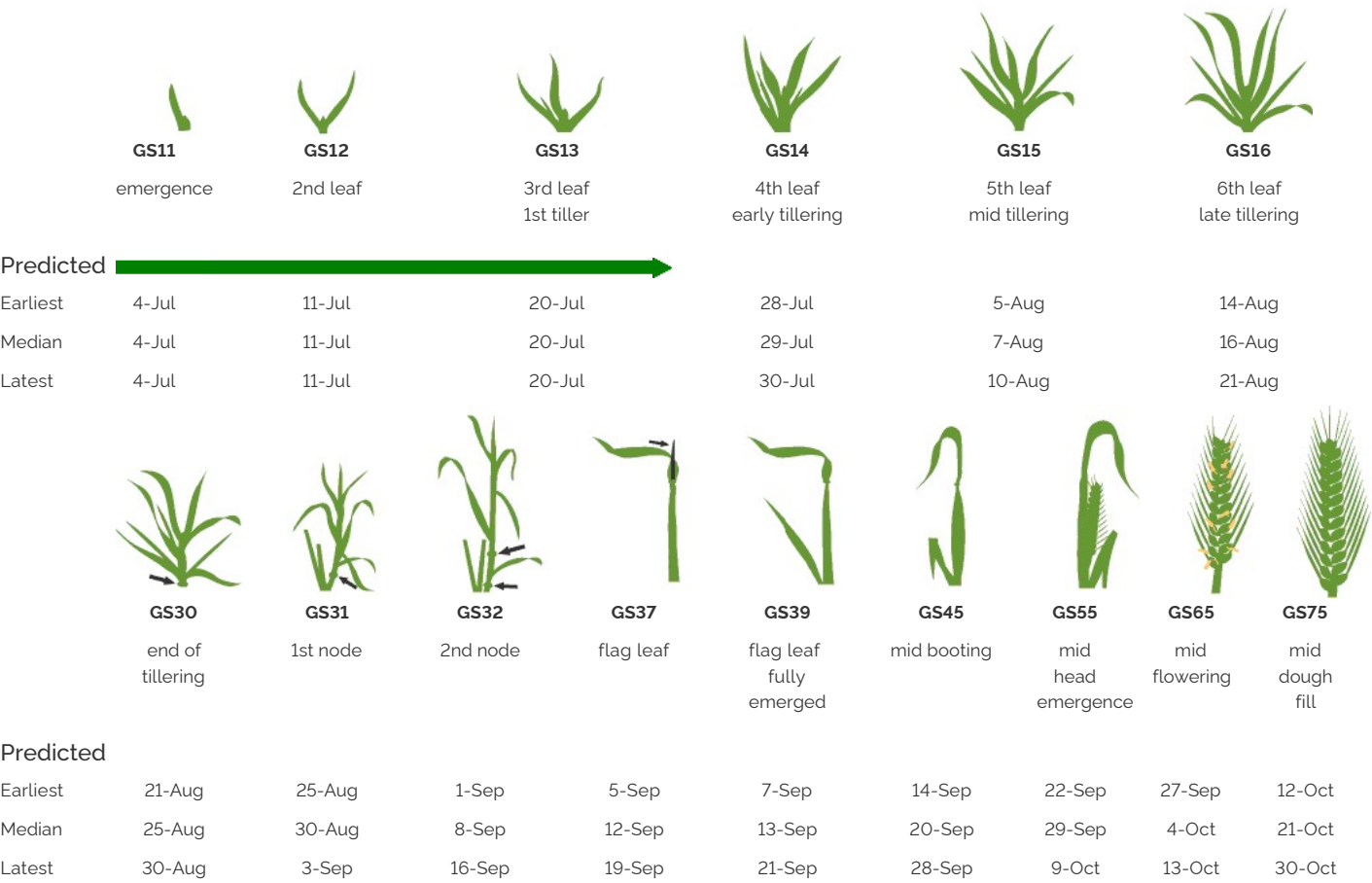


Current dry matter: 187.72633880601182kg/ha




The Season So Far - Growing Season Rainfall Deciles



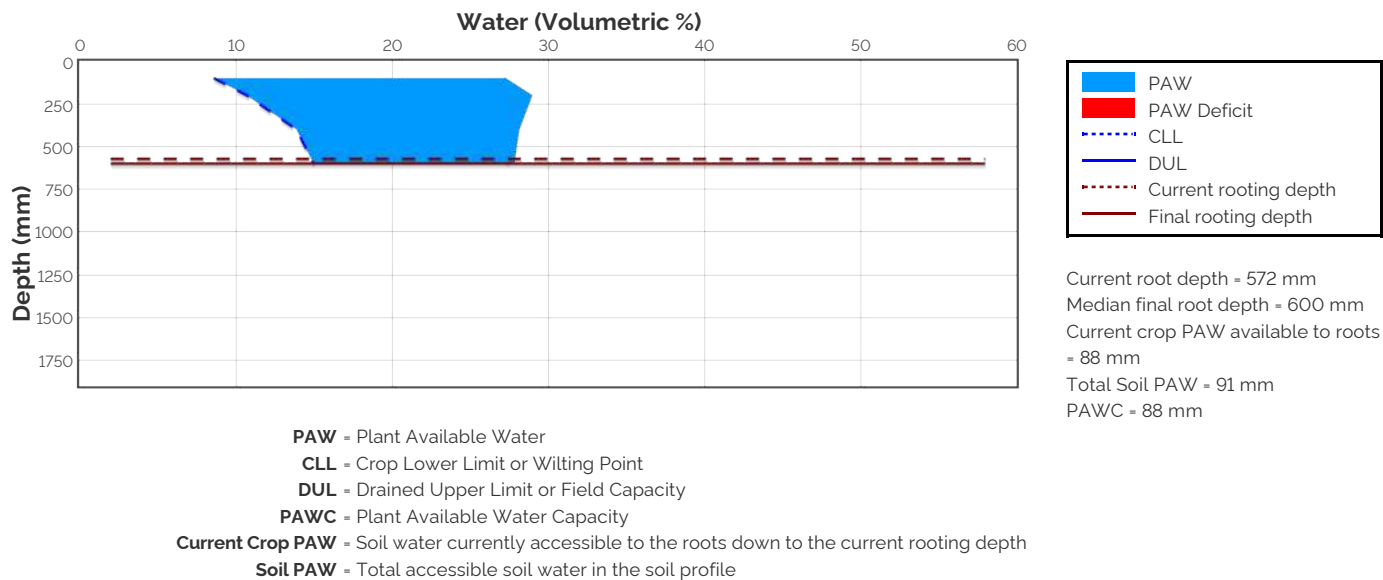
Simulated and Predicted Crop Growth Stage



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 moderate 0 to -2°C during flowering & early grain fill severe Less than -2°C during flowering & grain fill | | 0% | 0 | mild 32 to 34°C |  | 56% | 0 |
| | | | | moderate 34 to 36°C |  | 36% | 0 |
| | | 0% | 0 | severe Above 36°C |  | 26% | 0 |

Current Distribution of PAW



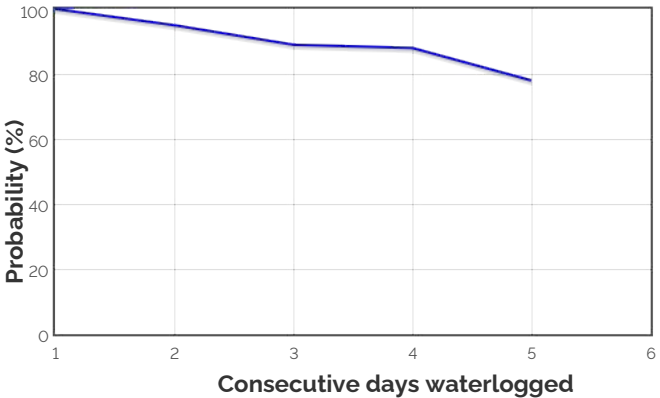
Water Budget

Initial PAW status @ 1-Apr
Rainfall since 1-Apr
Irrigations
Evaporation since 1-Apr
Transpiration since 1-Apr
Deep drainage since 1-Apr
Run-off since 1-Apr
Current PAW status:

6 mm
181.7 mm

79 mm
2 mm
10 mm
2 mm
91 mm

Probability of Future Waterlogging Events



Nitrogen Budget

Initial N status @ 1-Apr
N mineralisation since 1-Apr
N tie up since 1-Apr
N applications

Total N in plant
De-nitrification since 1-Apr
Leaching since 1-Apr

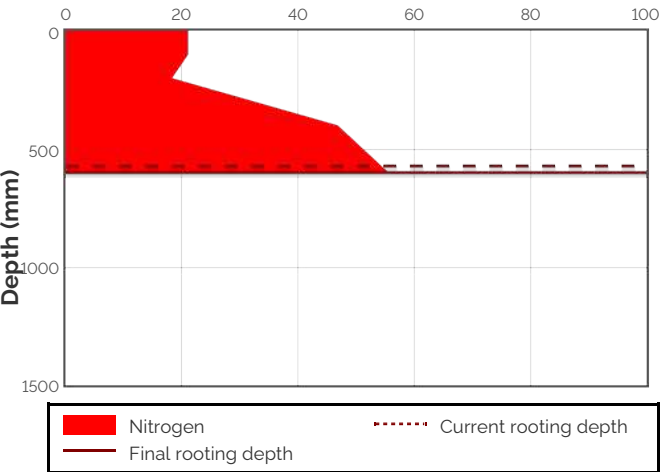
Current N status:

Median N mineralisation to maturity = 71.1155545120296 kg/ha
Median N tie up to maturity = 0 kg/ha

114 kg/ha
63 kg/ha
0 kg/ha

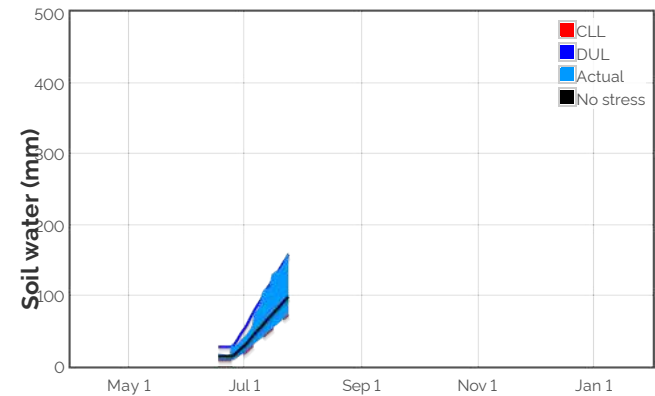
10-May : 16 kg/ha
15-Jul : 40 kg/ha
10 kg/ha
0 kg/ha
10 kg/ha
142 kg/ha

Current distribution of soil nitrogen (kg/ha)

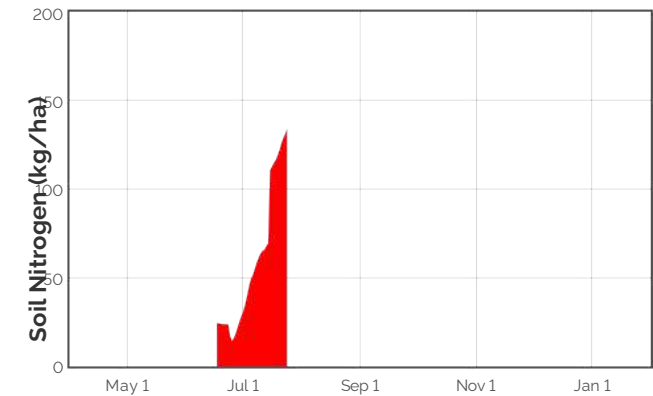


Current Crop Available N = 134 kg/ha
Total Soil N = 142 kg/ha

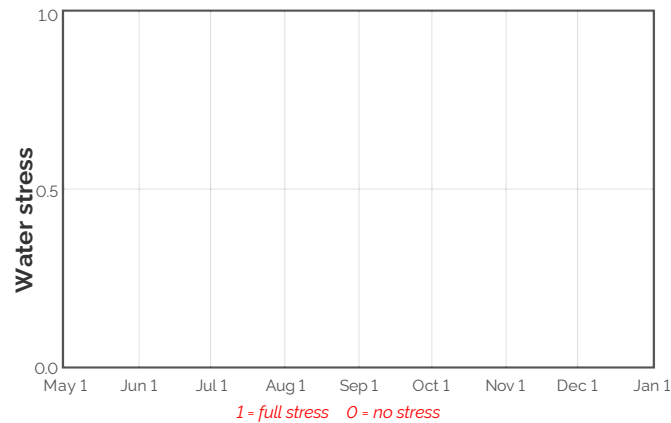
Availability of Water to Growing Roots



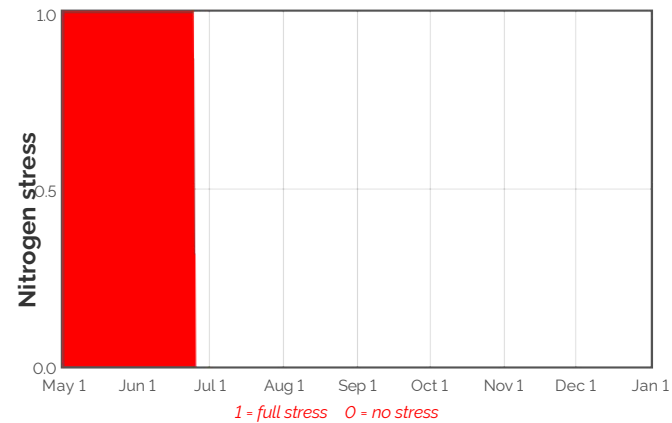
Availability of Soil Nitrogen to Growing Roots



Water Stress



Nitrogen Stress



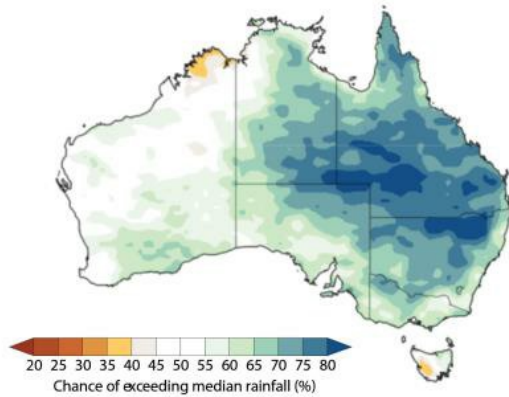
Brief periods of mild to moderate stress do not necessarily lead to reduced yield. To see the likely impacts of additional nitrogen fertiliser rates use the Nitrogen and Nitrogen Profit reports.

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

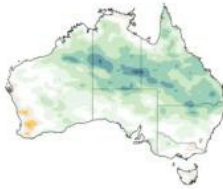
| Date | Growth Stage | Evap. (mm) | Water use (mm) | N use (kg/ha) | Water avail. to roots above stress threshold (mm) | Water avail. to roots above CLL (mm) | N avail. to roots (kg/ha) | Mineralisation (kg/ha) | N tie up (kg/ha) |
|--------|--------------|------------|----------------|---------------|---|--------------------------------------|---------------------------|------------------------|------------------|
| 26-Jul | 13.7 | 1.5 | 0.2 | -0.9 | 61.8 | 87.7 | 136.4 | 0.4 | 0.0 |
| 27-Jul | 13.8 | 1.0 | 0.3 | -1.0 | 60.9 | 87.3 | 138.2 | 0.4 | 0.0 |
| 28-Jul | 13.9 | 0.7 | 0.3 | -1.1 | 59.6 | 85.9 | 136.8 | 0.4 | 0.0 |
| 29-Jul | 14.0 | 0.5 | 0.3 | -1.3 | 58.6 | 85.0 | 135.2 | 0.4 | 0.0 |
| 30-Jul | 14.2 | 0.5 | 0.3 | -1.5 | 57.8 | 84.2 | 133.8 | 0.4 | 0.0 |
| 31-Jul | 14.3 | 0.4 | 0.4 | -1.7 | 57.1 | 83.4 | 132.1 | 0.4 | 0.0 |
| 1-Aug | 14.4 | 0.4 | 0.4 | -1.8 | 56.3 | 82.6 | 130.4 | 0.4 | 0.0 |
| 2-Aug | 14.5 | 0.4 | 0.5 | -1.9 | 55.5 | 81.8 | 128.7 | 0.4 | 0.0 |
| 3-Aug | 14.6 | 0.3 | 0.5 | -1.9 | 54.6 | 81.0 | 126.5 | 0.4 | 0.0 |
| 4-Aug | 14.7 | 0.3 | 0.6 | -2.2 | 53.7 | 80.1 | 124.4 | 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.

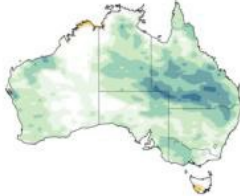
3 MONTH RAINFALL OUTLOOK FOR
AUGUST TO OCTOBER



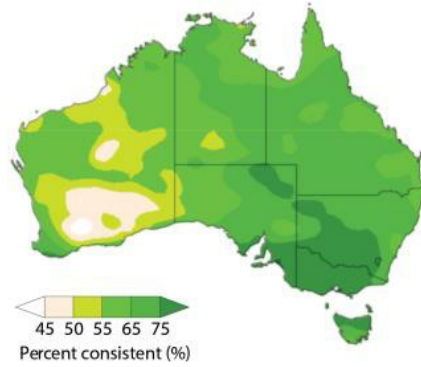
AUGUST
RAINFALL OUTLOOK



SEPTEMBER
RAINFALL OUTLOOK



PAST ACCURACY FOR
AUGUST TO OCTOBER



PAST ACCURACY FOR
AUGUST



PAST ACCURACY FOR
SEPTEMBER

