

# Crop Report

9-May-2025

Andrew H Ware:  
Cockaleeche

Crop: Wheat

Cultivar: Scepter

Sowing details: 200 plants/m<sup>2</sup> on 25-May

Expected maturity date: 26-Nov

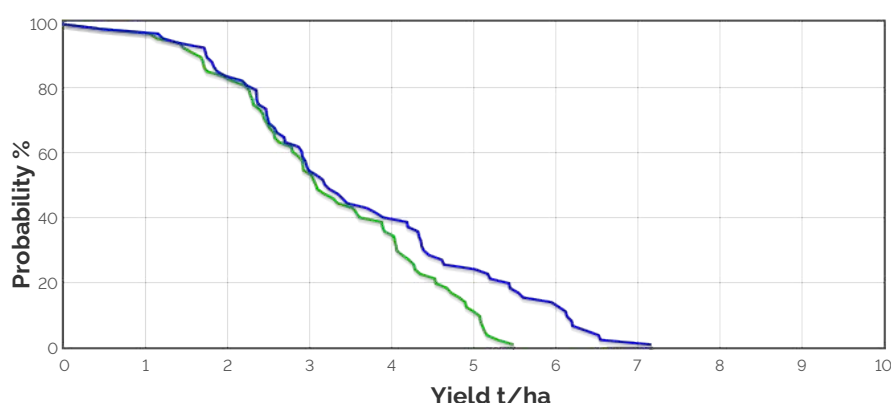
Paddock Details

Initial conditions date: 23-Jan

Soil: Clay Loam over Loamy Medium Clay  
(Yeelanna No590)  
1400 mm max rooting depth

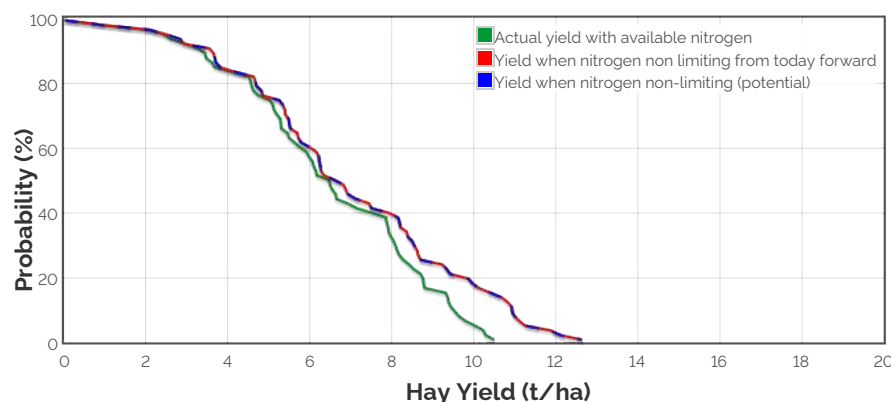
Stubble: 4000 kg/ha of Wheat  
No till

## 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.

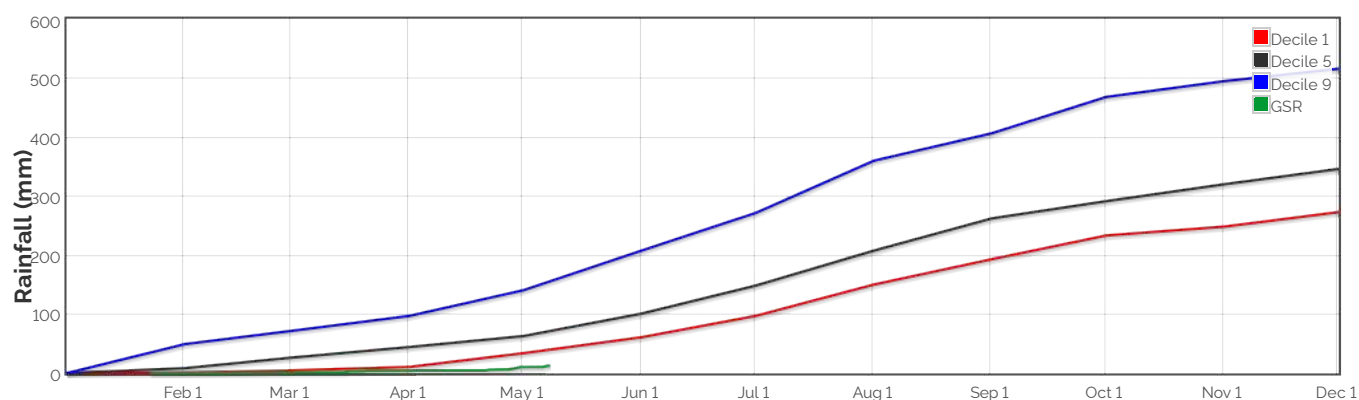
## Hay Yield Outcome



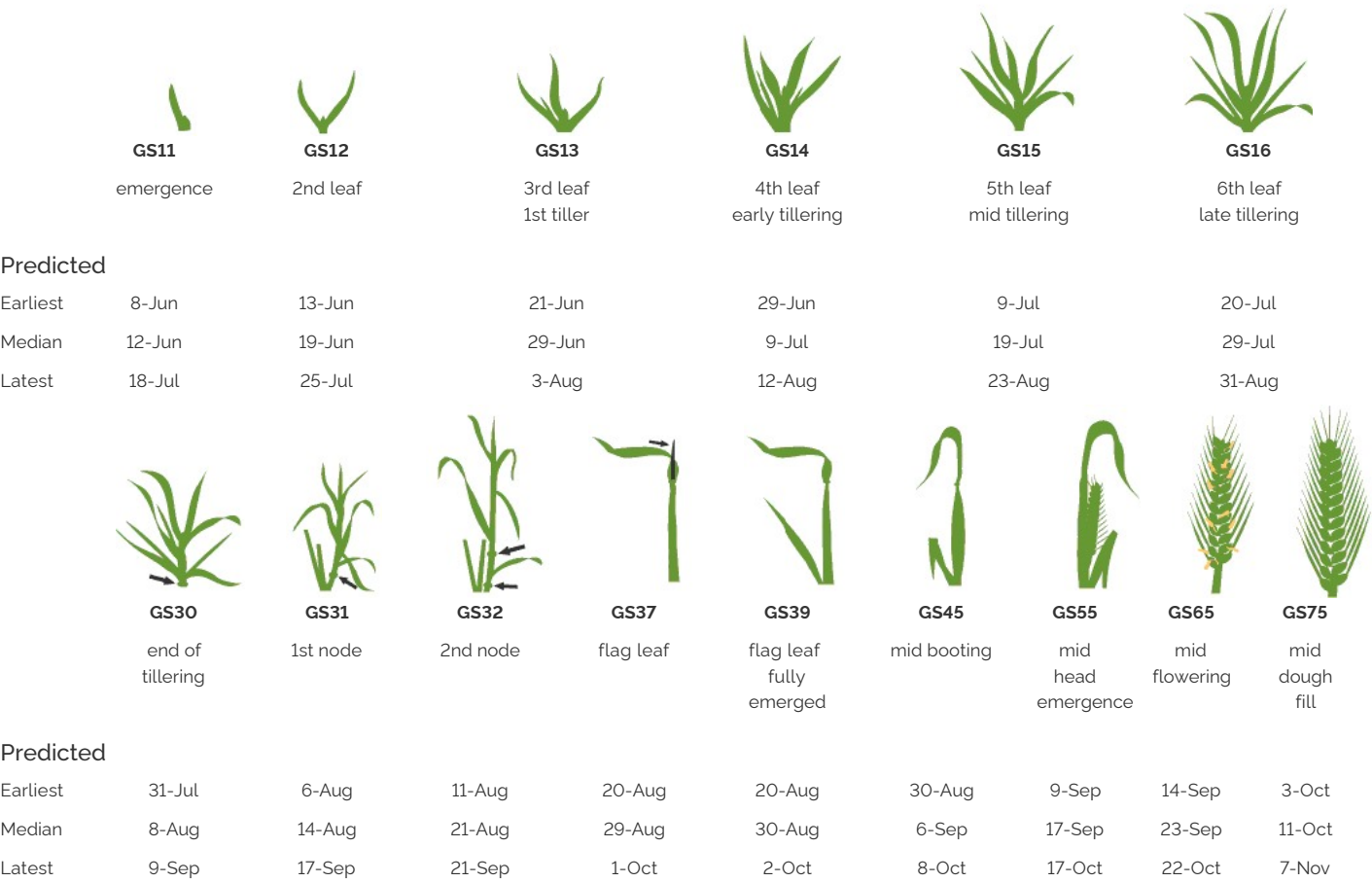
This graph shows the probability of exceeding a range of hay yield outcomes this season. It takes into account the same factors as the grain yield graph above. When above ground dry matter is below 2t/ha, hay yield is assumed to be 70% of dry matter, with a moisture content of 13%. When dry matter is 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: 0kg/ha

## The Season So Far - Growing Season Rainfall Deciles



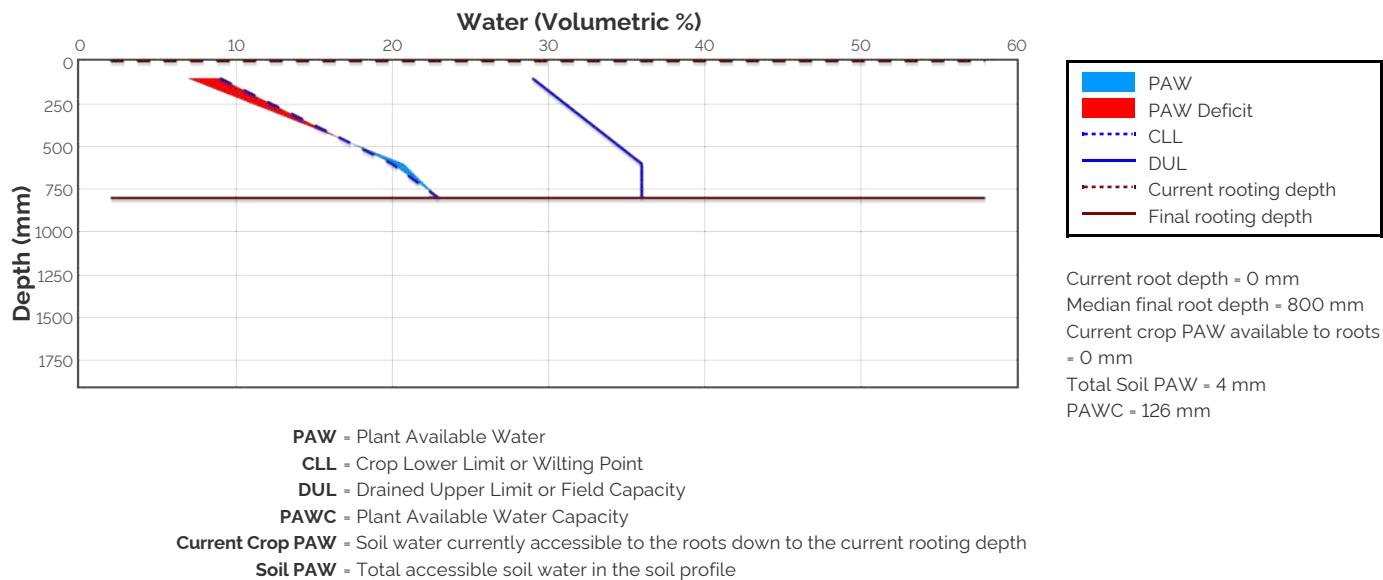
Simulated and Predicted Crop Growth Stage



Probability and Incidence of Frost and Heat Shock

| Frost damage during flowering   |  |             |    |   | Heat damage during grain fill |  |             |   |  |
|---|--|-------------|----|---|-------------------------------|--|-------------|---|--|
| Probability   |  | This Season |    |   | Probability                   |  | This Season |   |  |
| mild<br>2 to 0°C during<br>flowering<br>moderate<br>0 to -2°C<br>during<br>flowering &<br>early grain fill<br>severe<br>Less than<br>-2°C during<br>flowering &<br>grain fill |  |             | 1% | 0 | mild<br>32 to 34°C            |  | 34%         | 0 |  |
|   |  |             | 0% | 0 | moderate<br>34 to 36°C        |  | 17%         | 0 |  |
|   |  | 0%          | 0  |   | severe<br>Above 36°C          |  | 10%         | 0 |  |

Current Distribution of PAW



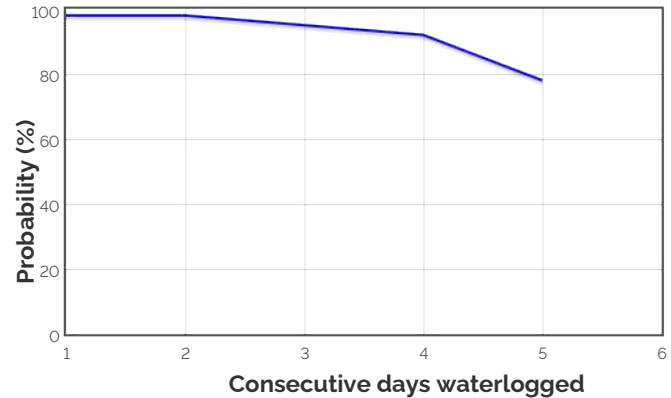
Water Budget

Initial PAW status @ 23-Jan  
Rainfall since 23-Jan  
Irrigations  
Evaporation since 23-Jan  
Transpiration since 23-Jan  
Deep drainage since 23-Jan  
Run-off since 23-Jan

Current PAW status:

6 mm  
12.9 mm  
  
17 mm  
0 mm  
0 mm  
0 mm  
  
4 mm

Probability of Future Waterlogging Events



Nitrogen Budget

Initial N status @ 23-Jan  
N mineralisation since 23-Jan  
N tie up since 23-Jan  
N applications

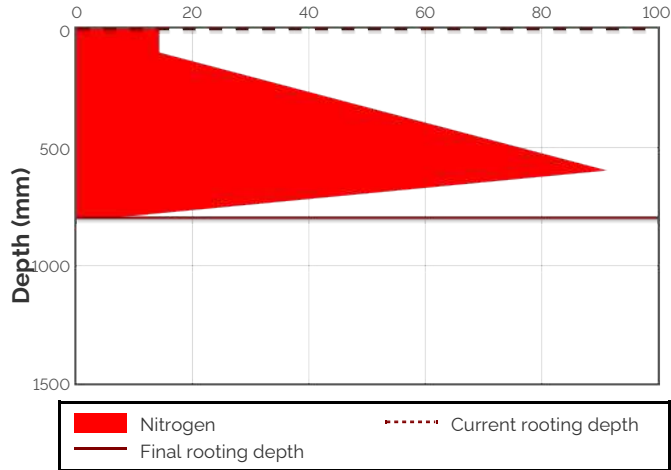
Total N in plant  
De-nitrification since 23-Jan  
Leaching since 23-Jan

Current N status:

Median N mineralisation to maturity = 38.1701107252176 kg/ha  
Median N tie up to maturity = 0 kg/ha

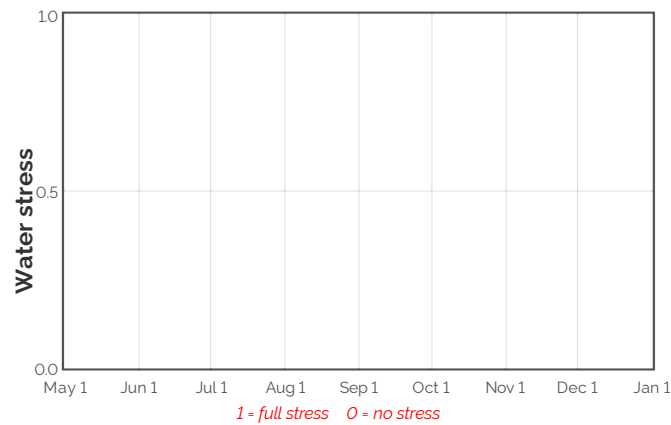
110 kg/ha  
12 kg/ha  
0 kg/ha  
  
10-May : 20 kg/ha  
0 kg/ha  
0 kg/ha  
0 kg/ha  
  
119 kg/ha

Current distribution of soil nitrogen (kg/ha)

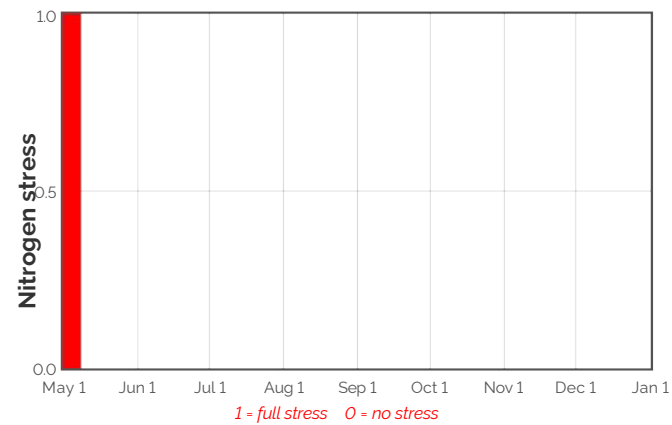


Current Crop Available N = 14 kg/ha  
Total Soil N = 119 kg/ha

### 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.

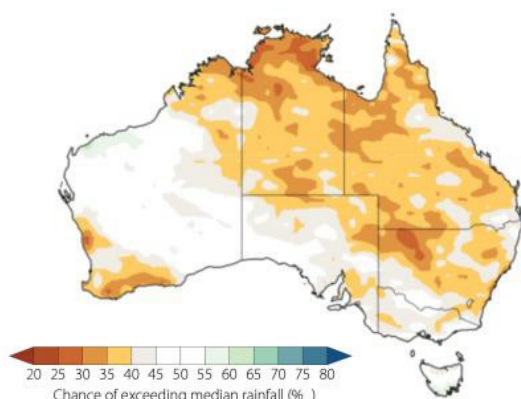
### Median projected crop performance and requirements for the next 10 days assuming no rain and no added fertiliser

| 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) |
|--------|--------------|------------|----------------|---------------|---|--------------------------------------|---------------------------|------------------------|------------------|
| 10-May | 9.0          | 0.6        | 0.0            | 0.0           | -8.2  | 0.0                                  | 14.3                      | 0.1                    | 0.0              |
| 11-May | 9.0          | 0.1        | 0.0            | 0.0           | -8.3  | 0.0                                  | 34.3                      | 0.1                    | 0.0              |
| 12-May | 9.0          | 0.1        | 0.0            | 0.0           | -8.3  | 0.0                                  | 34.3                      | 0.1                    | 0.0              |
| 13-May | 9.0          | 0.1        | 0.0            | 0.0           | -8.4  | 0.0                                  | 34.3                      | 0.1                    | 0.0              |
| 14-May | 9.0          | 0.1        | 0.0            | 0.0           | -8.5  | 0.0                                  | 34.3                      | 0.1                    | 0.0              |
| 15-May | 9.0          | 0.1        | 0.0            | 0.0           | -8.6  | 0.0                                  | 34.3                      | 0.1                    | 0.0              |
| 16-May | 9.0          | 0.1        | 0.0            | 0.0           | -8.6  | 0.0                                  | 34.4                      | 0.1                    | 0.0              |
| 17-May | 9.0          | 0.1        | 0.0            | 0.0           | -8.7  | 0.0                                  | 34.4                      | 0.1                    | 0.0              |
| 18-May | 9.0          | 0.1        | 0.0            | 0.0           | -8.8  | 0.0                                  | 34.4                      | 0.1                    | 0.0              |
| 19-May | 9.0          | 0.1        | 0.0            | 0.0           | -8.8  | 0.0                                  | 34.4                      | 0.1                    | 0.0              |

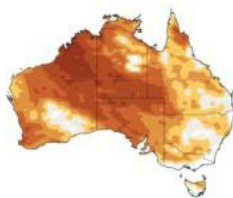
The water available to roots above the stress threshold is the amount of PAW (mm) above one third of the total water holding capacity of this soil. If the water values are below this stress threshold the water available to roots above the stress threshold will be negative.

# Bureau of Meteorology Seasonal and Monthly Outlooks

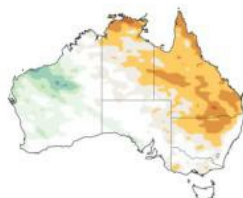
3 MONTH RAINFALL OUTLOOK FOR  
MAY TO JULY



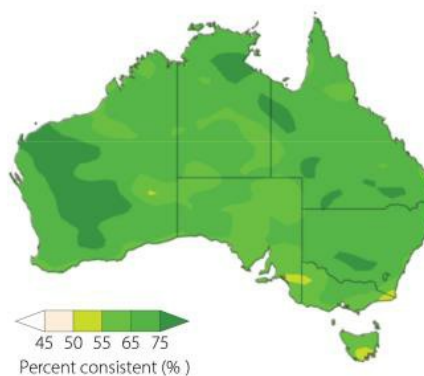
MAY  
RAINFALL OUTLOOK



JUNE  
RAINFALL OUTLOOK



PAST ACCURACY FOR  
MAY TO JULY



PAST ACCURACY FOR  
MAY



PAST ACCURACY FOR  
JUNE



  
Australian Government  
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