

Crop Report

6-Nov-2025

Andrew H Ware:
Matthews Cootra

Crop: Barley

Cultivar: Spartacus

Sowing details: 150 plants/m² on 6-Jun

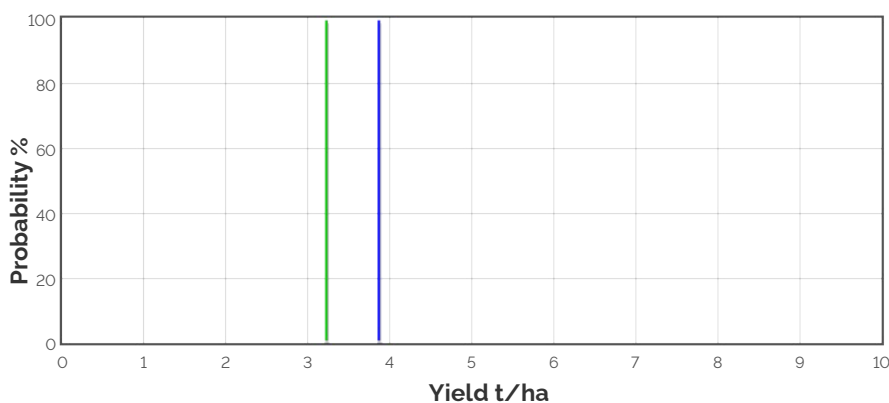
Expected maturity date: 29-Oct

Paddock Details

Initial conditions date: 1-Apr

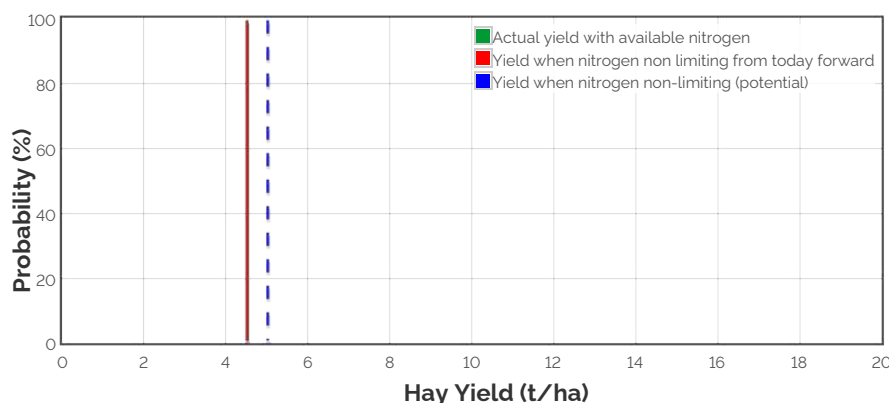
Soil: Sand (Tuckey No366)
1000 mm max rooting depth
Stubble: 1500 kg/ha of Wheat
No till

Grain Yield Outcome

☒ Nitrogen limited Yield☒ Water limited Yield

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.

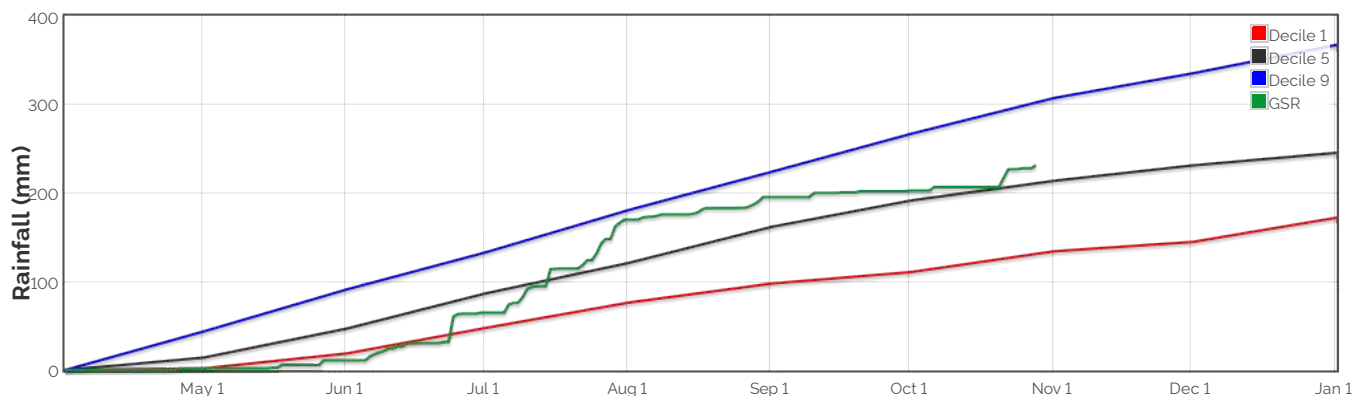
Hay Yield Outcome



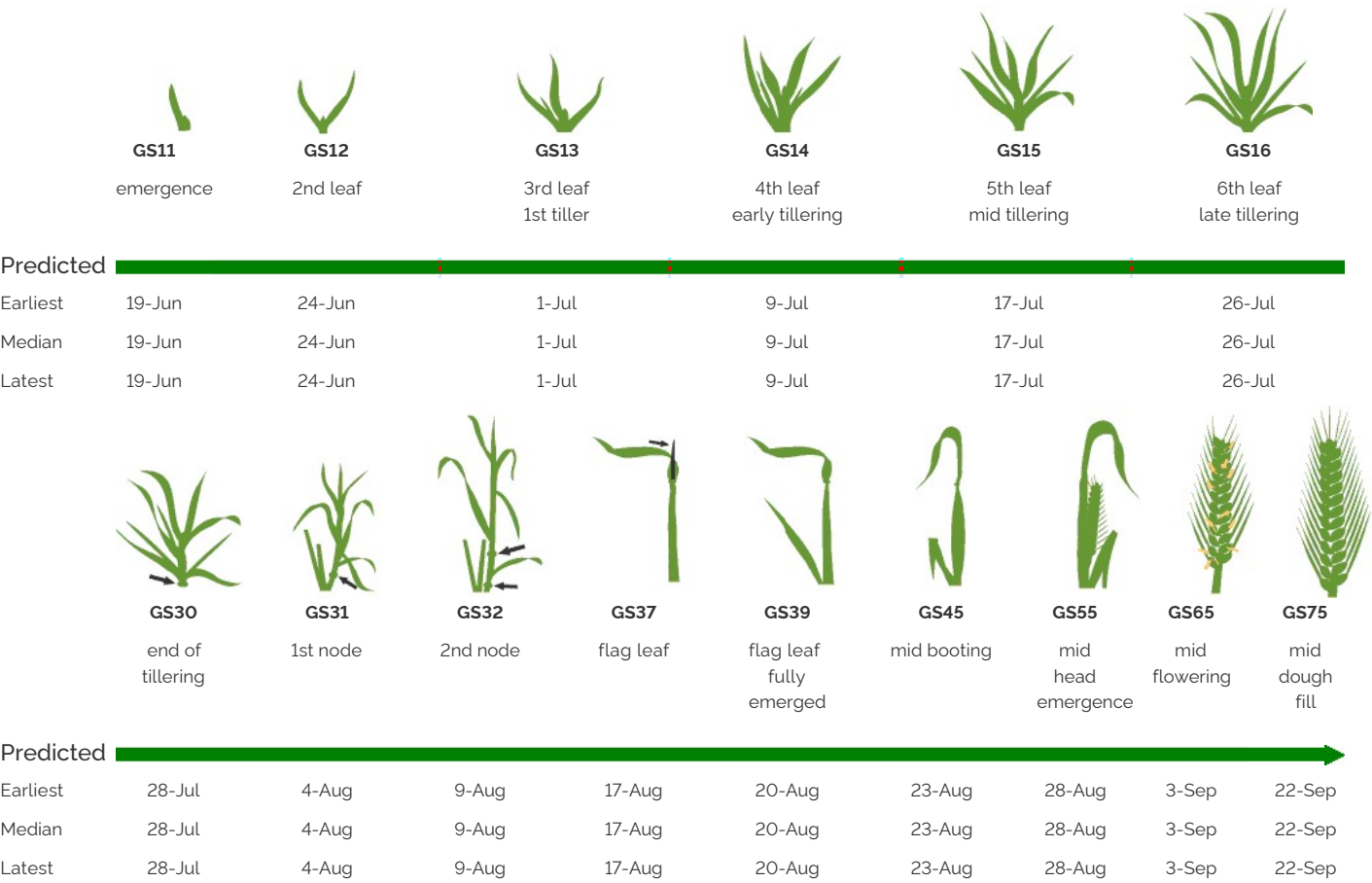
This graph shows the probability of exceeding a range of hay yield outcomes this season. It takes into account the same factors as the grain yield graph above. When above ground dry matter is below 2t/ha, hay yield is assumed to be 70% of dry matter, with a moisture content of 13%. When dry matter is 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: 5476.730241594479kg/ha

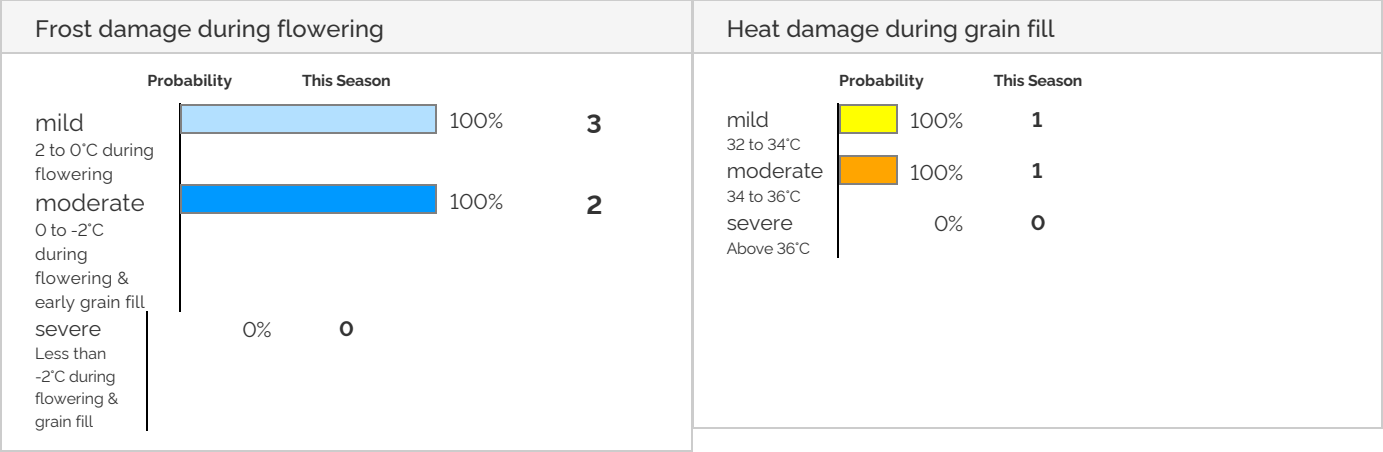
The Season So Far - Growing Season Rainfall Deciles



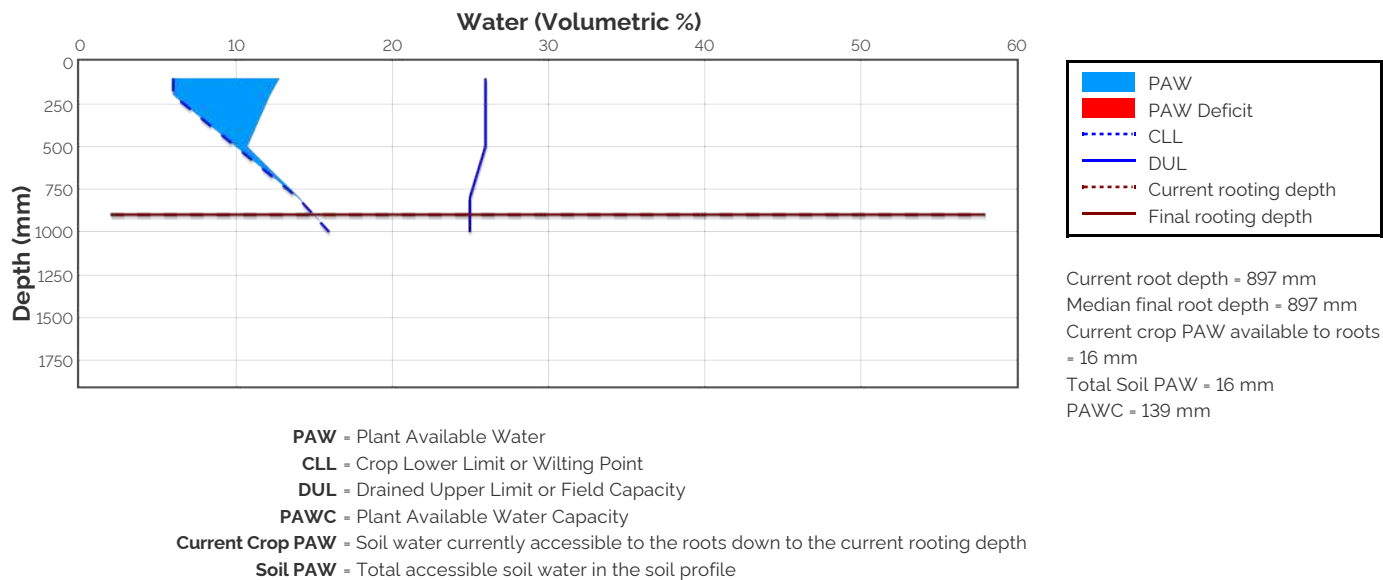
Simulated and Predicted Crop Growth Stage



Probability and Incidence of Frost and Heat Shock



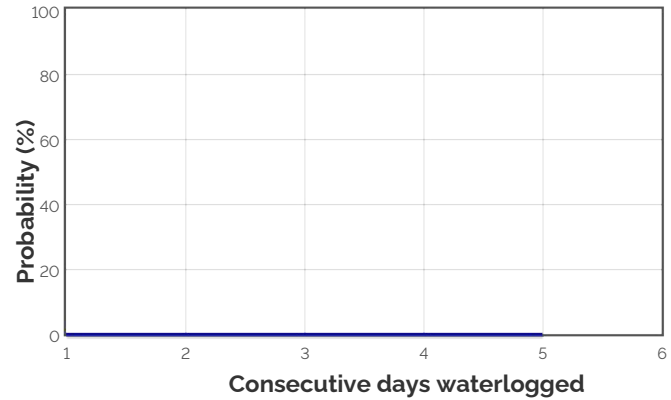
Current Distribution of PAW



Water Budget

Initial PAW status @ 1-Apr	5 mm
Rainfall since 1-Apr	231.4 mm
Irrigations	
Evaporation since 1-Apr	123 mm
Transpiration since 1-Apr	157 mm
Deep drainage since 1-Apr	0 mm
Run-off since 1-Apr	0 mm
Current PAW status:	16 mm

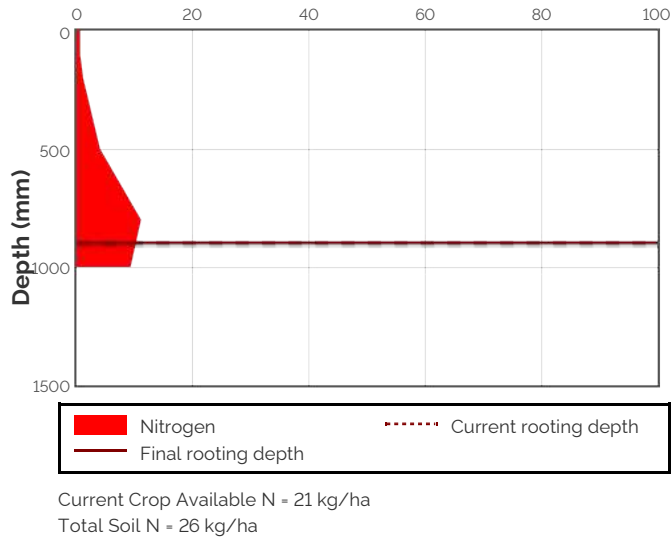
Probability of Future Waterlogging Events



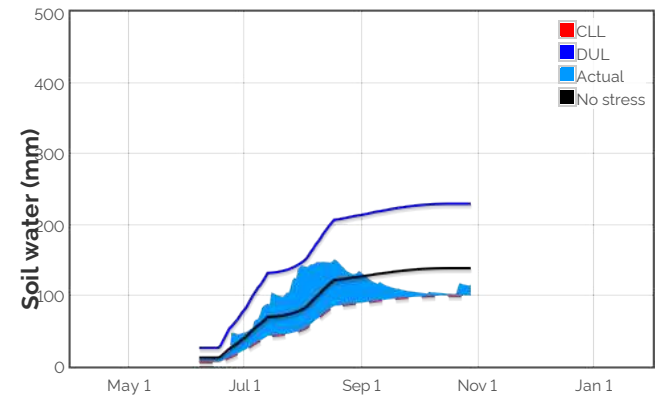
Nitrogen Budget

Initial N status @ 1-Apr	78 kg/ha
N mineralisation since 1-Apr	92 kg/ha
N tie up since 1-Apr	0 kg/ha
N applications	
7-May : 28 kg/ha	
Total N in plant	62 kg/ha
De-nitrification since 1-Apr	0 kg/ha
Leaching since 1-Apr	0 kg/ha
Current N status:	26 kg/ha
Median N mineralisation to maturity = 57.0864289721207 kg/ha	
Median N tie up to maturity = 0 kg/ha	

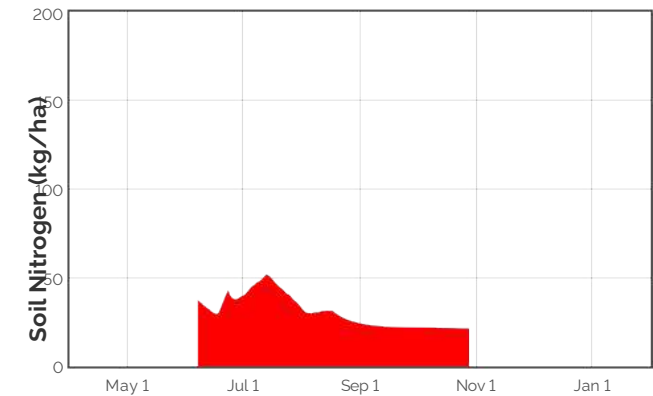
Current distribution of soil nitrogen (kg/ha)



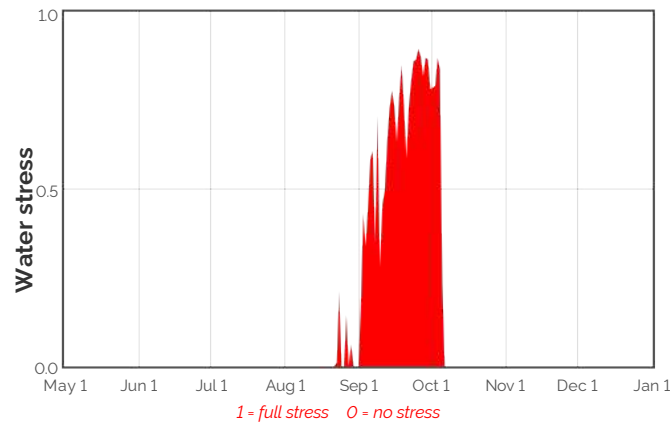
Availability of Water to Growing Roots



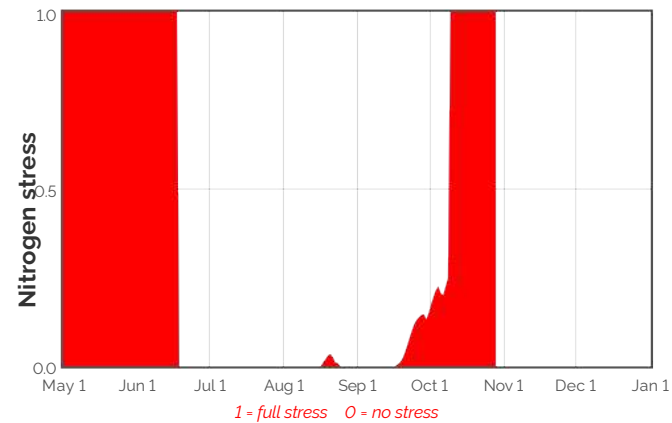
Availability of Soil Nitrogen to Growing Roots



Water Stress



Nitrogen Stress



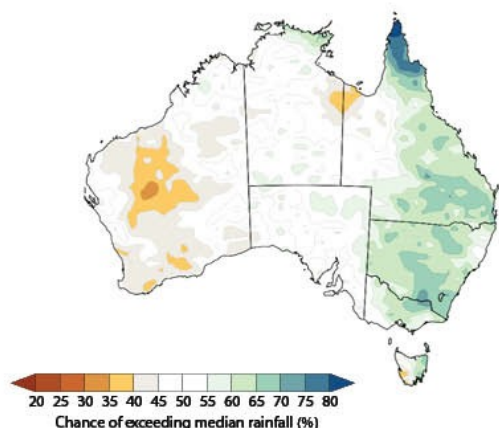
Brief periods of mild to moderate stress do not necessarily lead to reduced yield. To see the likely impacts of additional nitrogen fertiliser rates use the Nitrogen and Nitrogen Profit reports.

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

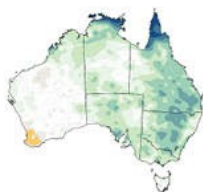
Date	Growth Stage	Evap. (mm)	Water use (mm)	N use (kg/ha)	Water avail. to roots above stress threshold (mm)	Water avail. to roots above CLL (mm)	N avail. to roots (kg/ha)	Mineralisation (kg/ha)	N tie up (kg/ha)
7-Nov	10.0	2.6	0.0	0.0	-3.9	2.1	0.0	0.4	0.0
8-Nov	10.0	1.4	0.0	0.0	-4.9	1.1	0.0	0.5	0.0
9-Nov	10.0	1.1	0.0	0.0	-5.5	0.5	0.0	0.5	0.0
10-Nov	10.0	0.9	0.0	0.0	-6.1	0.0	0.0	0.6	0.0
11-Nov	10.0	0.8	0.0	0.0	-6.6	0.0	0.1	0.6	0.0
12-Nov	10.0	0.7	0.0	0.0	-7.0	0.0	0.1	0.5	0.0
13-Nov	10.0	0.7	0.0	0.0	-7.4	0.0	0.1	0.5	0.0
14-Nov	10.0	0.6	0.0	0.0	-7.7	0.0	0.2	0.5	0.0
15-Nov	10.0	0.6	0.0	0.0	-8.0	0.0	0.2	0.5	0.0
16-Nov	10.0	0.6	0.0	0.0	-8.3	0.0	0.2	0.5	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.

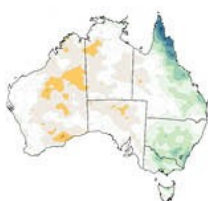
3 MONTH RAINFALL OUTLOOK FOR
NOVEMBER TO JANUARY



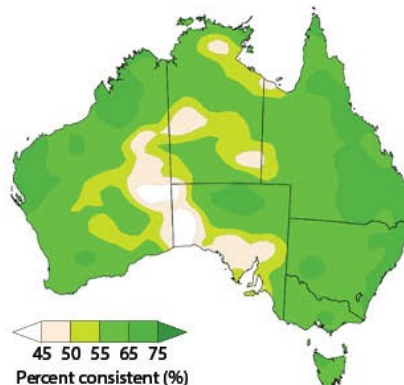
NOVEMBER
RAINFALL OUTLOOK



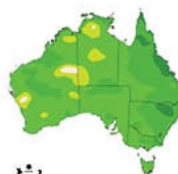
DECEMBER
RAINFALL OUTLOOK



PAST ACCURACY FOR
NOVEMBER TO JANUARY



PAST ACCURACY FOR
NOVEMBER



PAST ACCURACY FOR
DECEMBER

