

Crop Report

9-May-2025

Andrew H Ware:
Matthews Cootra

Crop: Barley

Cultivar: Spartacus

Sowing details: 150 plants/m² on 23-May

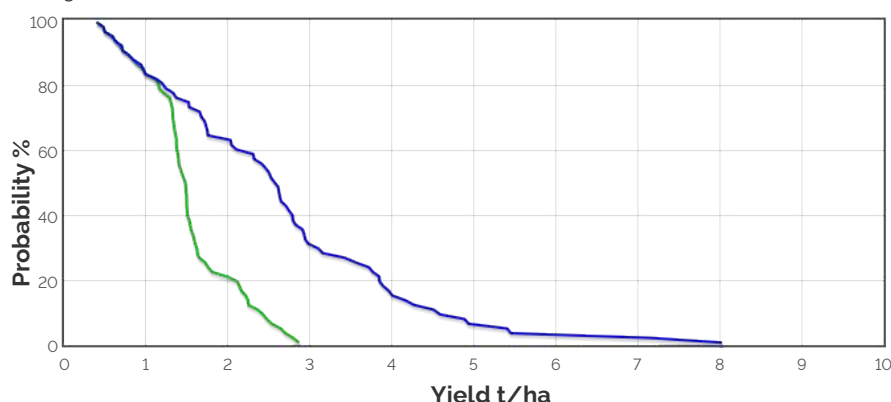
Expected maturity date: 25-Oct

Paddock Details

Initial conditions date: 1-Apr

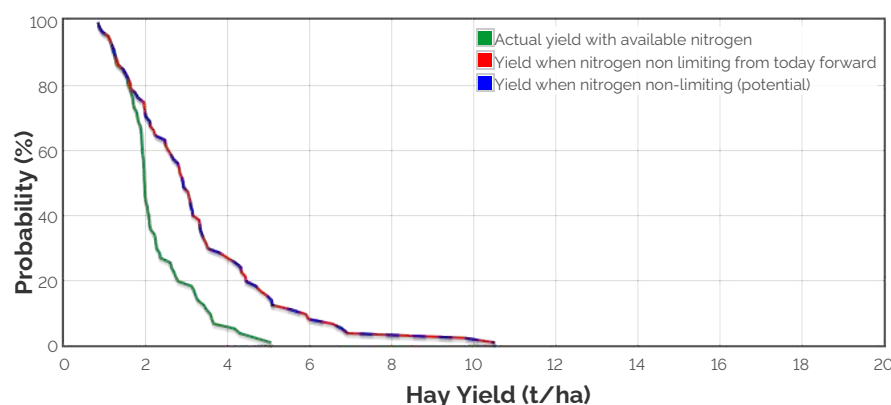
Soil: Sand (Tuckey No366)
1000 mm max rooting depth
Stubble: 1500 kg/ha of Wheat
No till

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.

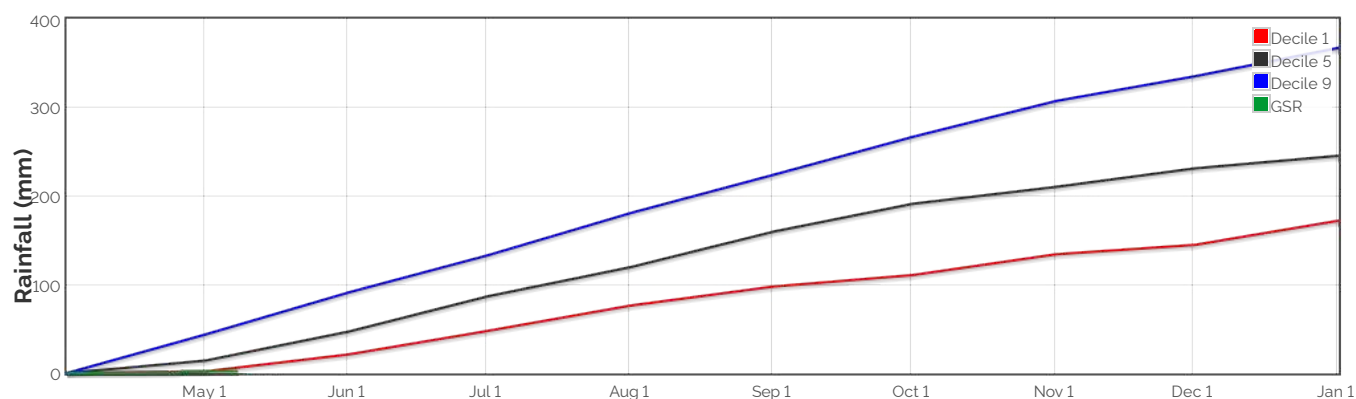
Hay Yield Outcome



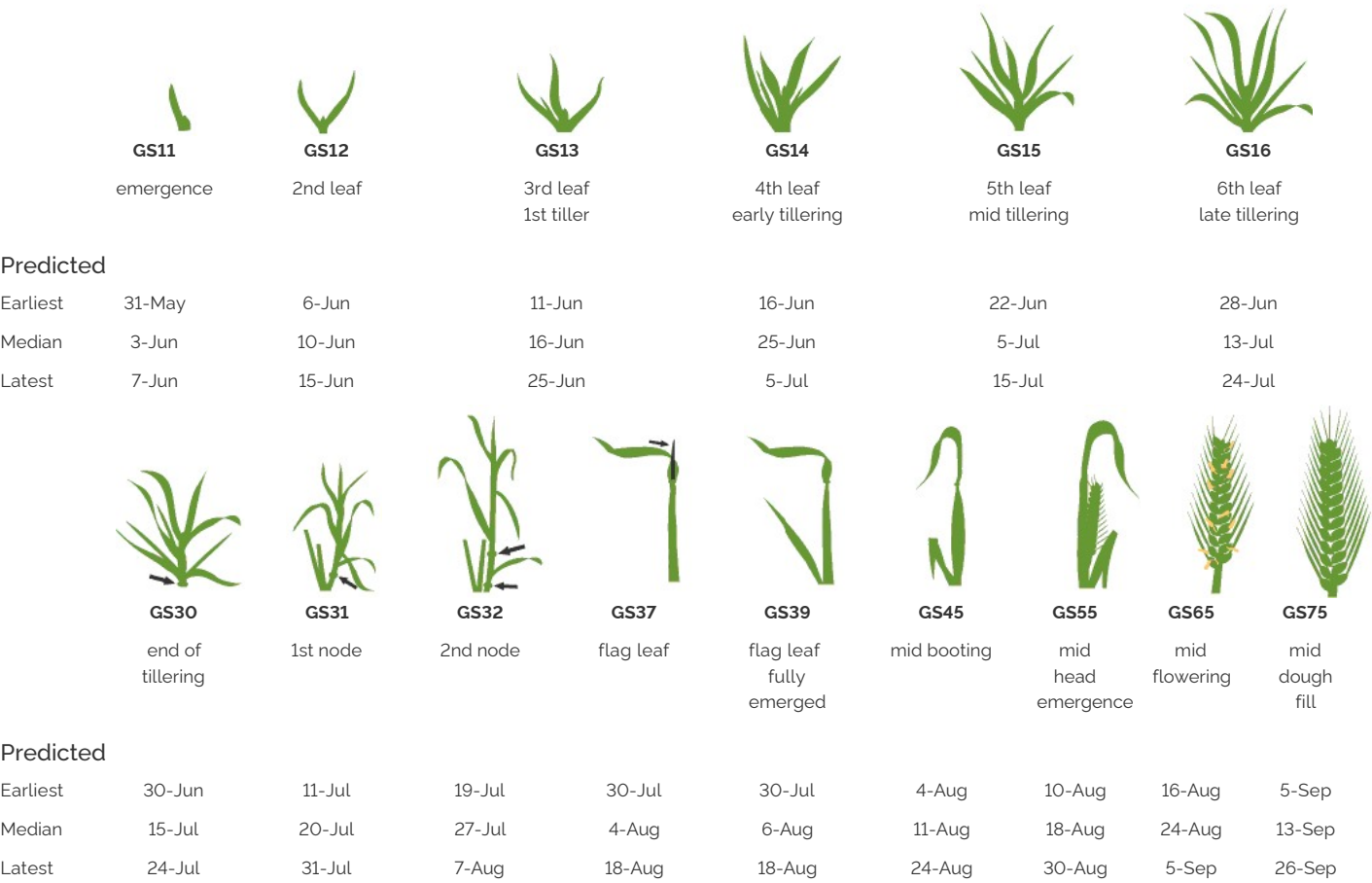
This graph shows the probability of exceeding a range of hay yield outcomes this season. It takes into account the same factors as the grain yield graph above. When above ground dry matter is below 2t/ha, hay yield is assumed to be 70% of dry matter, with a moisture content of 13%. When dry matter is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

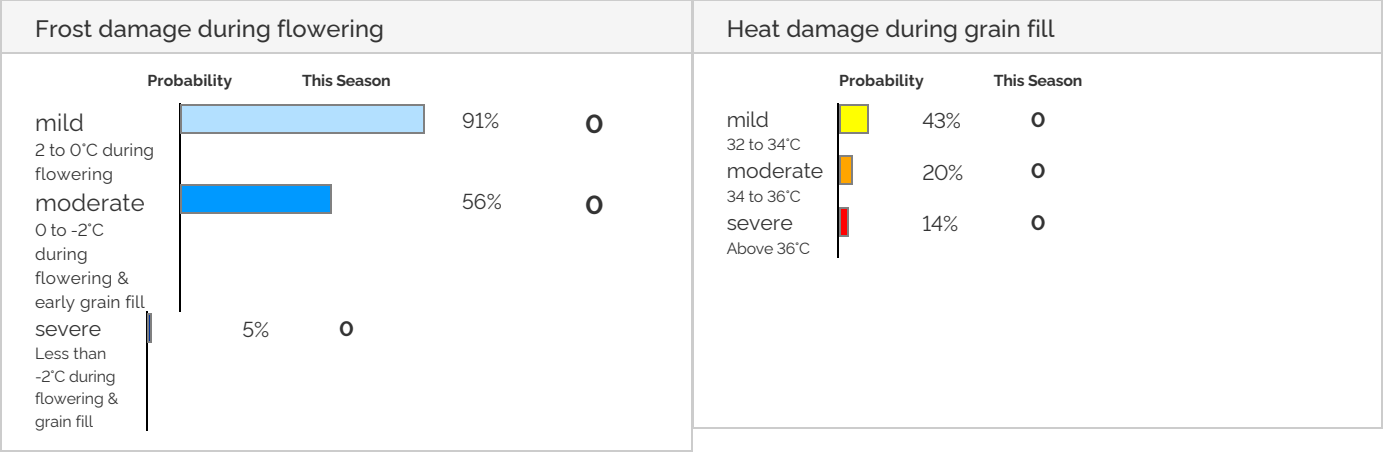
The Season So Far - Growing Season Rainfall Deciles



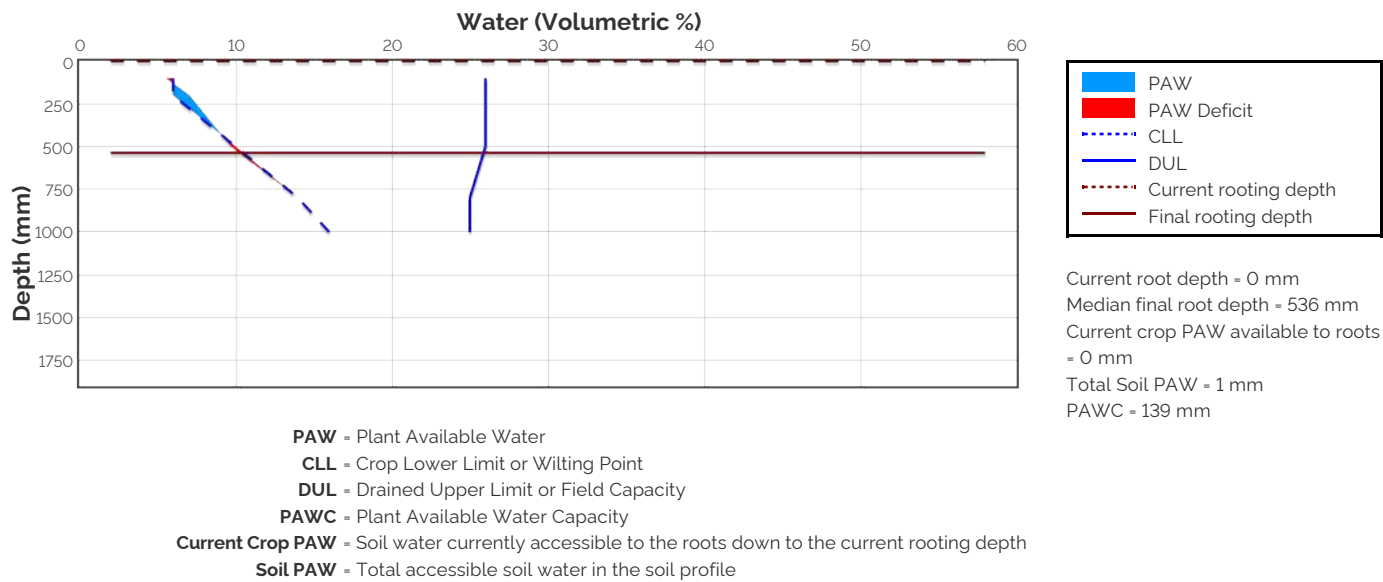
Simulated and Predicted Crop Growth Stage



Probability and Incidence of Frost and Heat Shock



Current Distribution of PAW



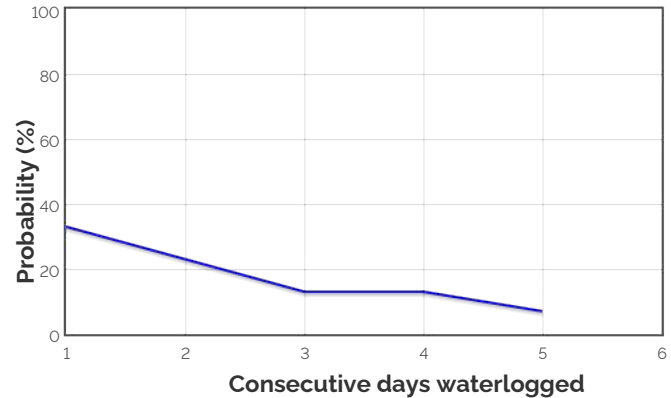
Water Budget

Initial PAW status @ 1-Apr
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:

5 mm
2.2 mm
5 mm
0 mm
0 mm
0 mm
1 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

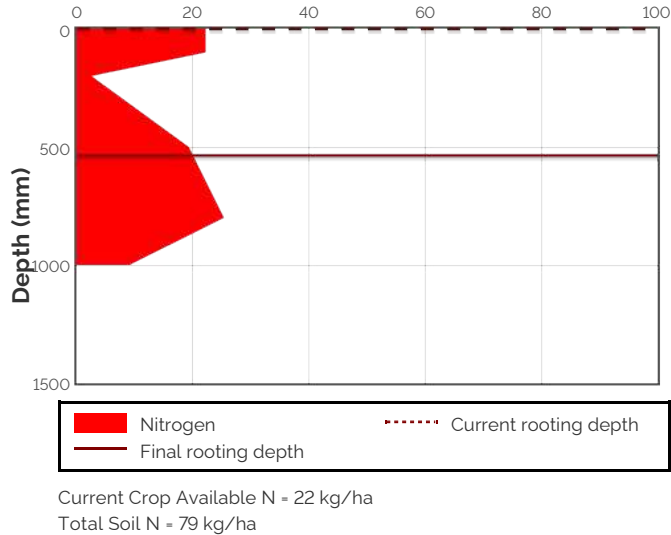
Total N in plant
De-nitrification since 1-Apr
Leaching since 1-Apr

Current N status:

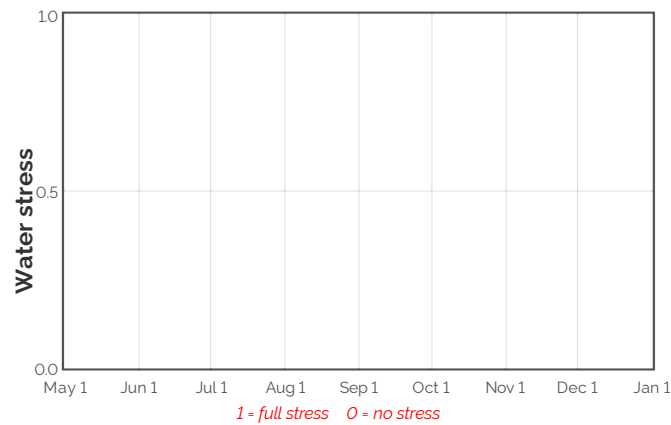
Median N mineralisation to maturity = 49.0876730166366 kg/ha
Median N tie up to maturity = 0 kg/ha

78 kg/ha
24 kg/ha
0 kg/ha
7-May : 5 kg/ha
0 kg/ha
0 kg/ha
0 kg/ha
79 kg/ha

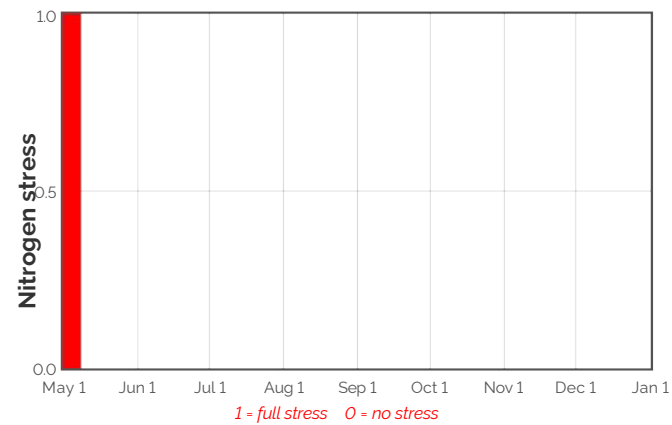
Current distribution of soil nitrogen (kg/ha)



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.

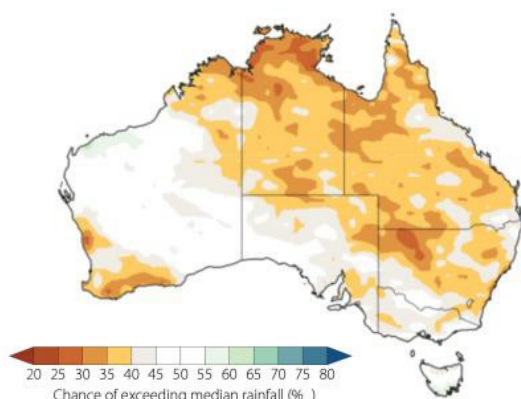
Median projected crop performance and requirements for the next 10 days assuming no rain and no added fertiliser

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	10.0	0.1	0.0	0.0	-6.5	0.0	22.2	0.5	0.0
11-May	10.0	0.1	0.0	0.0	-6.5	0.0	22.2	0.5	0.0
12-May	10.0	0.1	0.0	0.0	-6.5	0.0	22.3	0.5	0.0
13-May	10.0	0.1	0.0	0.0	-6.5	0.0	22.3	0.5	0.0
14-May	10.0	0.1	0.0	0.0	-6.5	0.0	22.3	0.5	0.0
15-May	10.0	0.1	0.0	0.0	-6.5	0.0	22.3	0.5	0.0
16-May	10.0	0.1	0.0	0.0	-6.5	0.0	22.3	0.5	0.0
17-May	10.0	0.1	0.0	0.0	-6.5	0.0	22.3	0.5	0.0
18-May	10.0	0.1	0.0	0.0	-6.5	0.0	22.4	0.4	0.0
19-May	10.0	0.1	0.0	0.0	-6.5	0.0	22.4	0.4	0.0

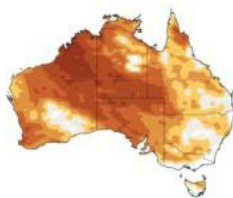
The water available to roots above the stress threshold is the amount of PAW (mm) above one third of the total water holding capacity of this soil. If the water values are below this stress threshold the water available to roots above the stress threshold will be negative.

Bureau of Meteorology Seasonal and Monthly Outlooks

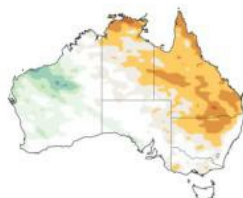
3 MONTH RAINFALL OUTLOOK FOR
MAY TO JULY



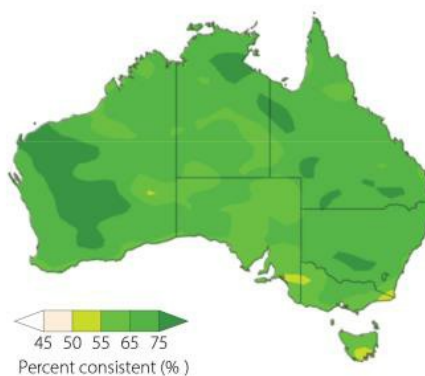
MAY
RAINFALL OUTLOOK



JUNE
RAINFALL OUTLOOK



PAST ACCURACY FOR
MAY TO JULY



PAST ACCURACY FOR
MAY



PAST ACCURACY FOR
JUNE




Australian Government
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