



Crop Report

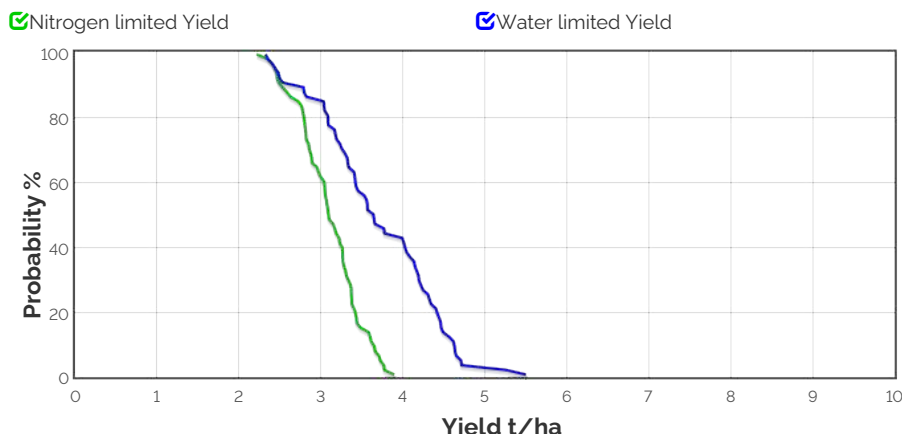
28-Jul-2025

Andrew H Ware:
Matthews Cootra

Crop: Barley
Cultivar: Spartacus
Sowing details: 150 plants/m² on 6-Jun
Expected maturity date: 31-Oct

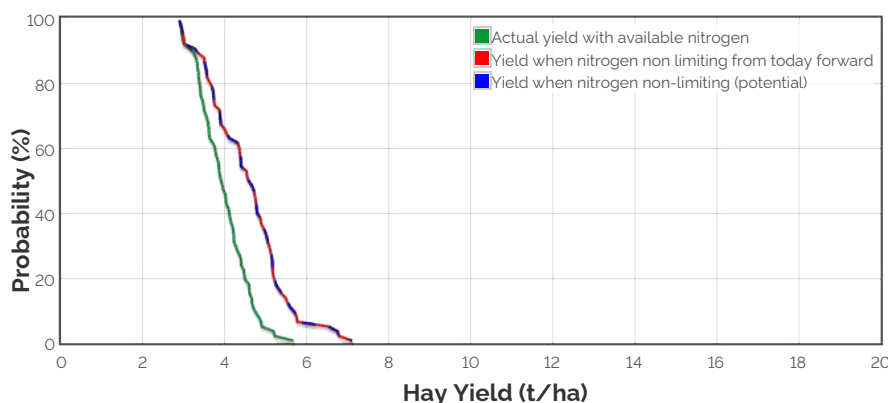
Paddock Details
Initial conditions date: 1-Apr
Soil: Sand (Tuckey No366)
1000 mm max rooting depth
Stubble: 1500 kg/ha of Wheat
No till

Grain Yield Outcome



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.

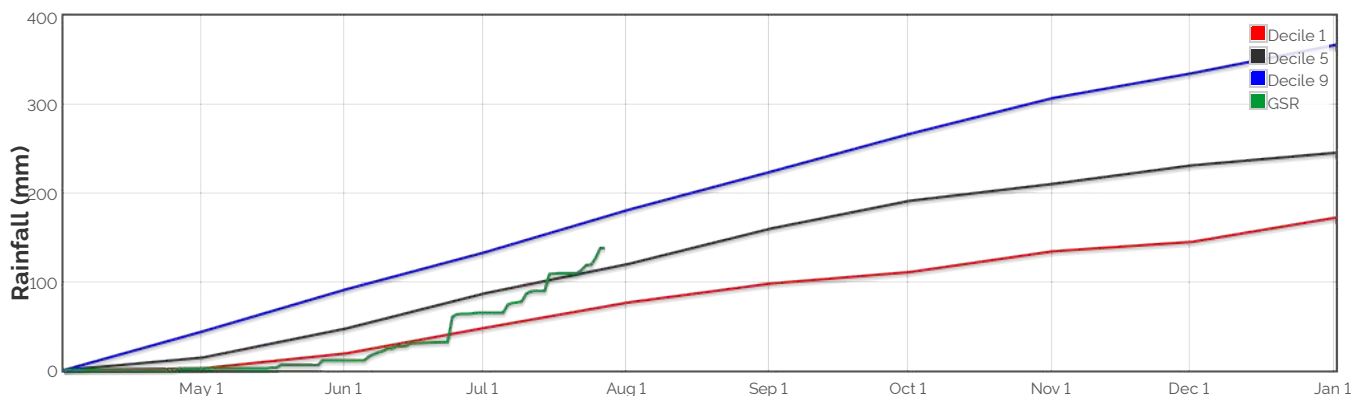
Hay Yield Outcome



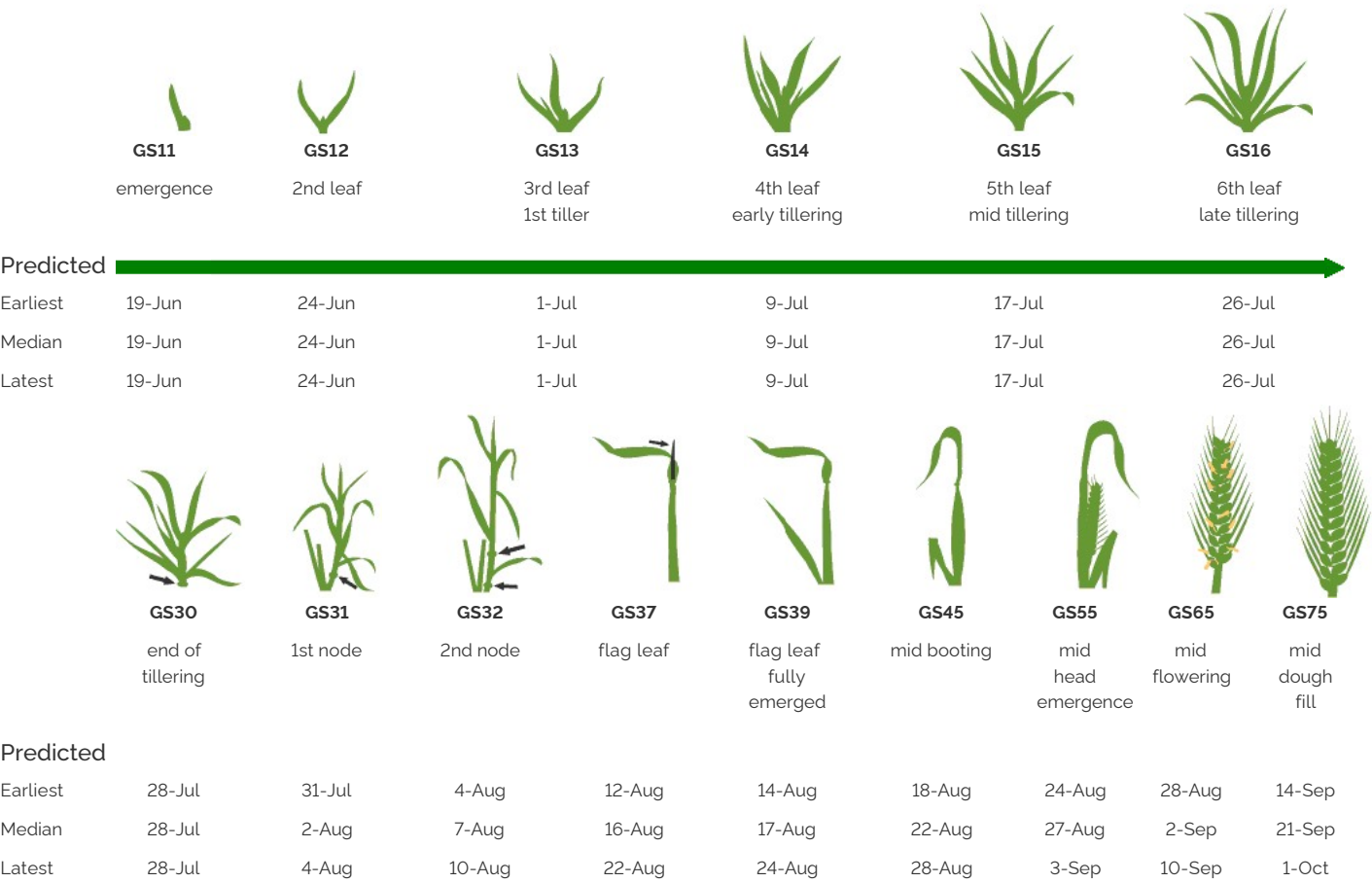
This graph shows the probability of exceeding a range of hay yield outcomes this season. It takes into account the same factors as the grain yield graph above. When above ground dry matter is below 2t/ha, hay yield is assumed to be 70% of dry matter, with a moisture content of 13%. When dry matter is 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: 536.3379086411467kg/ha

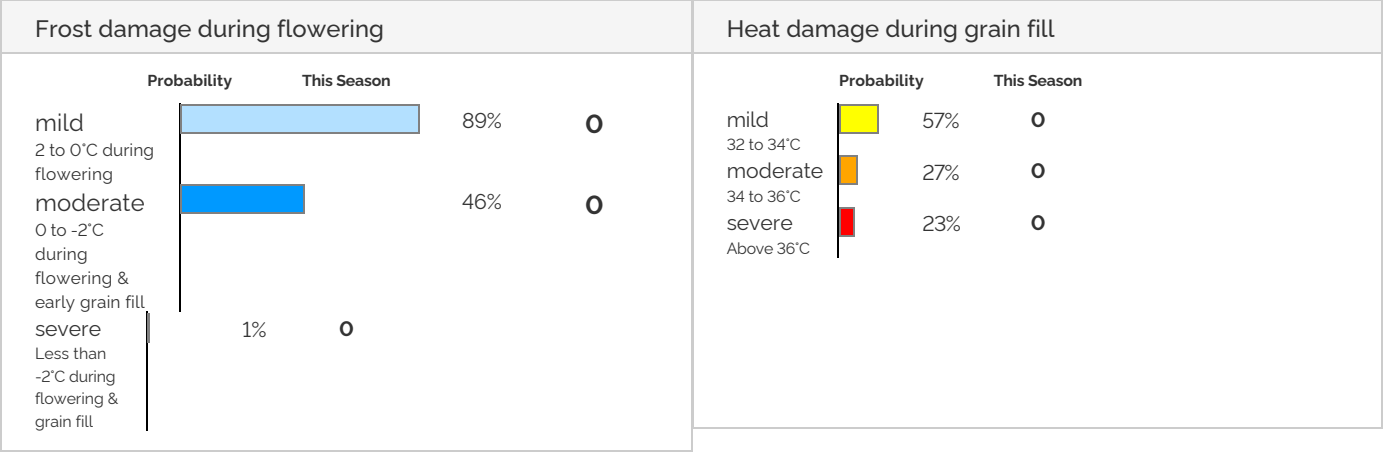
The Season So Far - Growing Season Rainfall Deciles



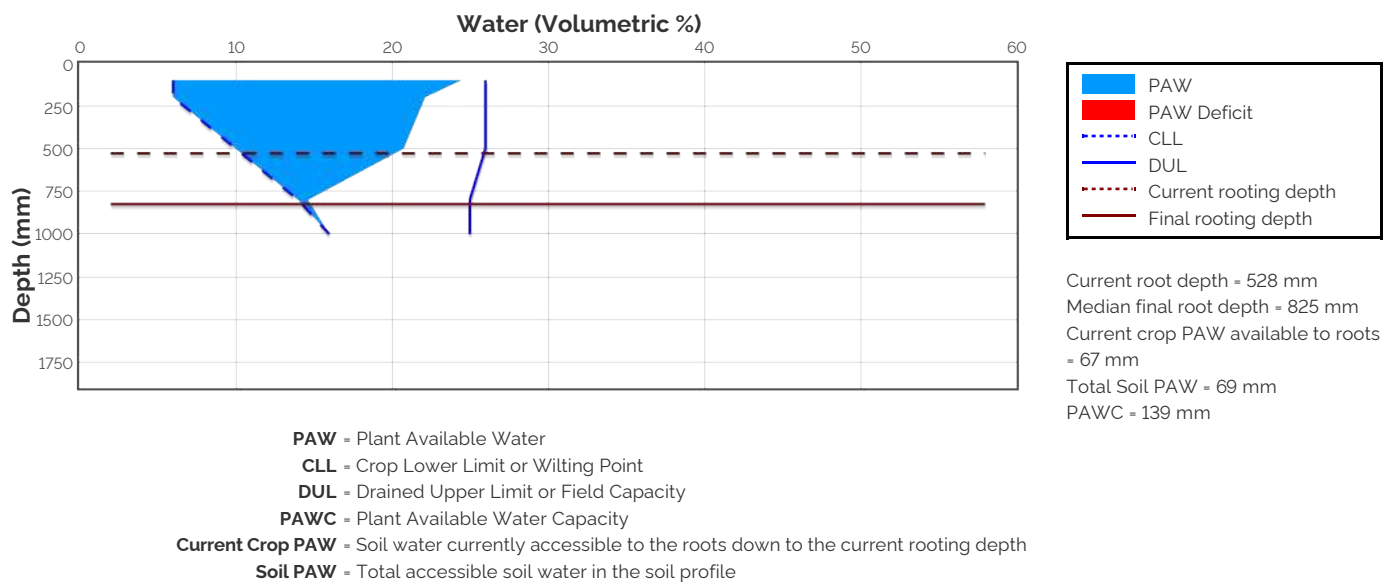
Simulated and Predicted Crop Growth Stage



Probability and Incidence of Frost and Heat Shock



Current Distribution of PAW



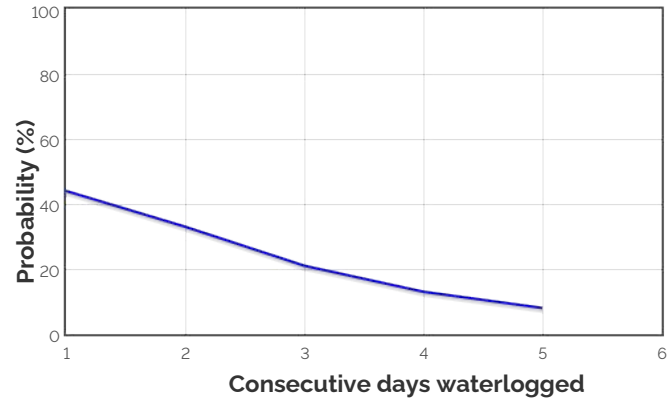
Water Budget

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
137.9 mm

64 mm
8 mm
0 mm
0 mm
69 mm

Probability of Future Waterlogging Events



Nitrogen Budget

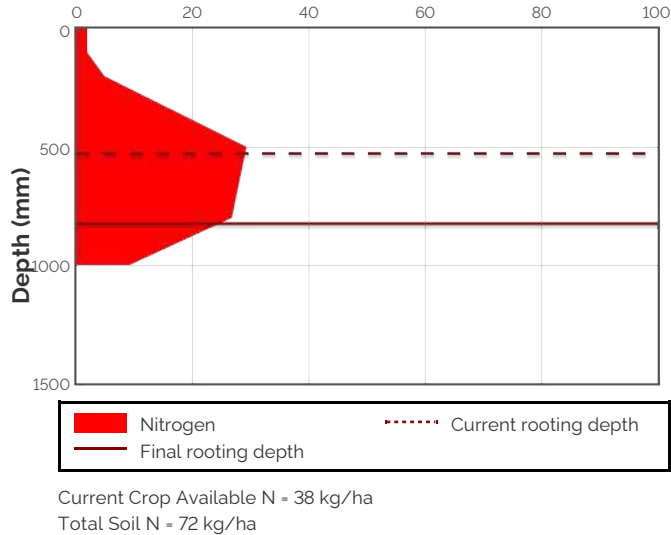
Initial N status @ 1-Apr
N mineralisation since 1-Apr
N tie up since 1-Apr
N applications

Total N in plant
De-nitrification since 1-Apr
Leaching since 1-Apr
Current N status:

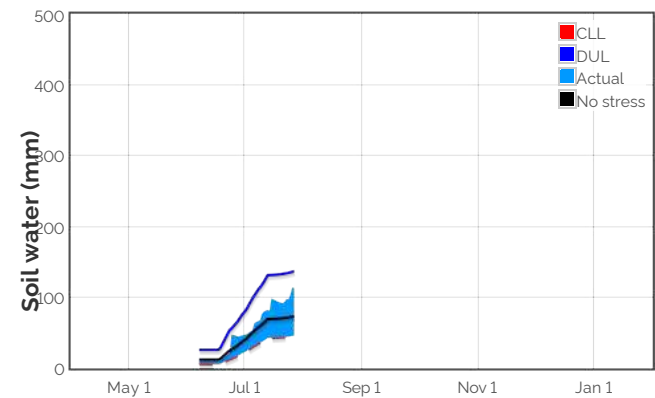
78 kg/ha
50 kg/ha
0 kg/ha

7-May : 28 kg/ha
23 kg/ha
0 kg/ha
0 kg/ha
72 kg/ha

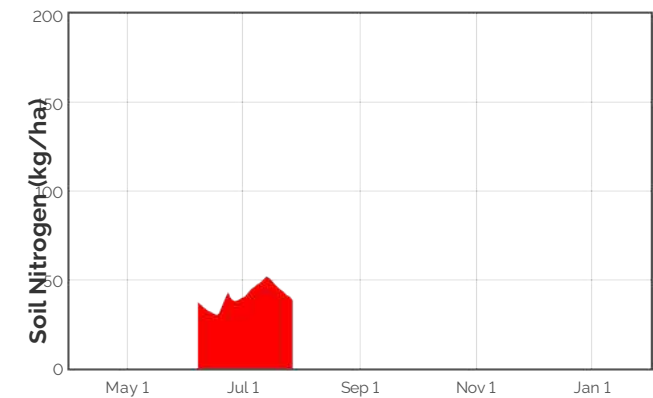
Current distribution of soil nitrogen (kg/ha)



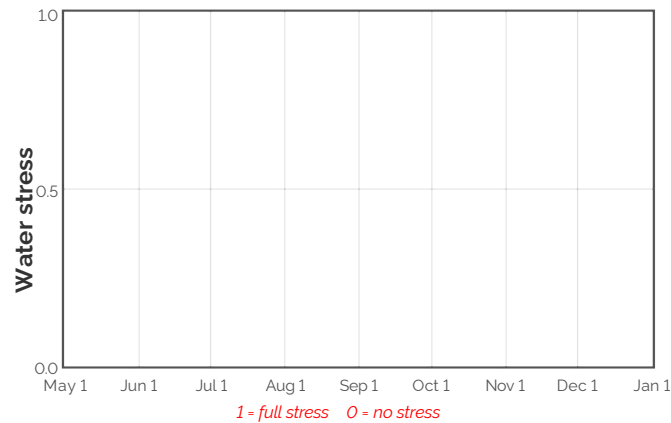
Availability of Water to Growing Roots



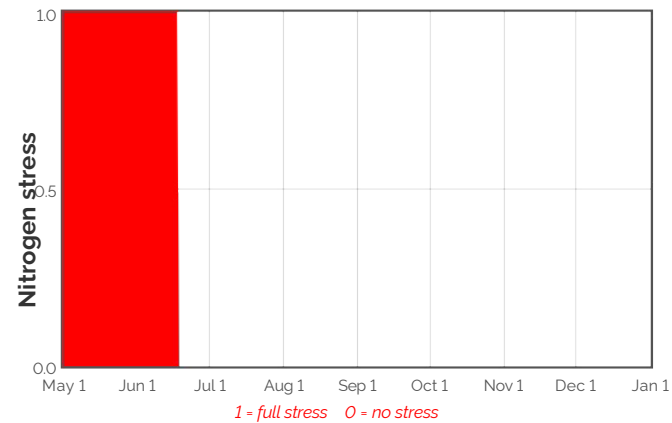
Availability of Soil Nitrogen to Growing Roots



Water Stress



Nitrogen Stress



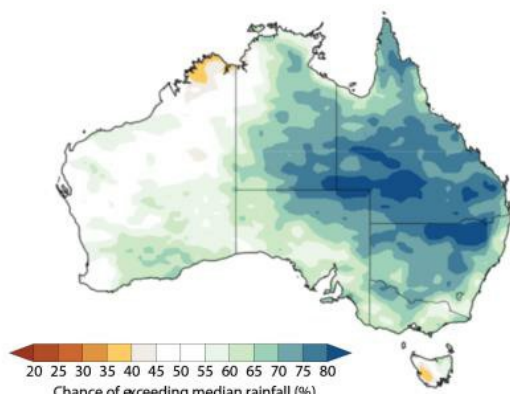
Brief periods of mild to moderate stress do not necessarily lead to reduced yield. To see the likely impacts of additional nitrogen fertiliser rates use the Nitrogen and Nitrogen Profit reports.

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

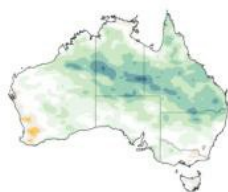
| Date | Growth Stage | Evap. (mm) | Water use (mm) | N use (kg/ha) | Water avail. to roots above stress threshold (mm) | Water avail. to roots above CLL (mm) | N avail. to roots (kg/ha) | Mineralisation (kg/ha) | N tie up (kg/ha) |
|--------|--------------|------------|----------------|---------------|---|--------------------------------------|---------------------------|------------------------|------------------|
| 29-Jul | 30.6 | 1.1 | 0.6 | -0.5 | 38.1 | 65.5 | 38.0 | 0.4 | 0.0 |
| 30-Jul | 30.7 | 1.1 | 0.7 | -1.0 | 36.2 | 63.7 | 37.2 | 0.4 | 0.0 |
| 31-Jul | 30.8 | 0.8 | 0.7 | -1.2 | 34.2 | 62.0 | 36.4 | 0.4 | 0.0 |
| 1-Aug | 30.9 | 0.7 | 0.7 | -1.2 | 32.3 | 60.3 | 35.7 | 0.4 | 0.0 |
| 2-Aug | 31.1 | 0.5 | 0.7 | -1.2 | 30.8 | 58.9 | 34.8 | 0.4 | 0.0 |
| 3-Aug | 31.2 | 0.4 | 0.8 | -1.3 | 29.4 | 57.8 | 34.1 | 0.4 | 0.0 |
| 4-Aug | 31.3 | 0.4 | 0.8 | -1.3 | 27.9 | 56.5 | 33.4 | 0.4 | 0.0 |
| 5-Aug | 31.5 | 0.4 | 0.8 | -1.0 | 26.4 | 55.1 | 33.1 | 0.4 | 0.0 |
| 6-Aug | 31.9 | 0.3 | 0.8 | -0.7 | 24.8 | 53.8 | 33.0 | 0.4 | 0.0 |
| 7-Aug | 32.0 | 0.3 | 0.9 | -0.7 | 23.4 | 52.7 | 32.8 | 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.

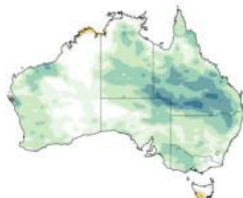
3 MONTH RAINFALL OUTLOOK FOR
AUGUST TO OCTOBER



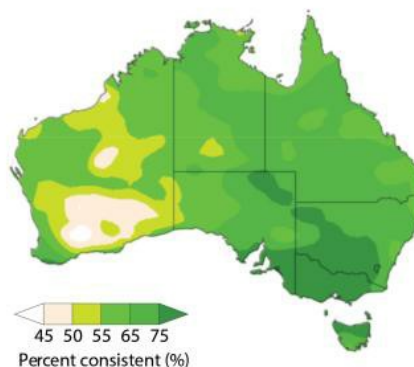
AUGUST
RAINFALL OUTLOOK



SEPTEMBER
RAINFALL OUTLOOK



PAST ACCURACY FOR
AUGUST TO OCTOBER



PAST ACCURACY FOR
AUGUST



PAST ACCURACY FOR
SEPTEMBER

