< Back

Save as PDF

Crop Report

28-Jul-2025

Andrew H Ware: Cleve

Crop: Wheat

Cultivar: Calibre

Sowing details: 100 plants/m^2 on 15-May

Expected maturity date: 16-Nov

Paddock Details

Initial conditions date: 1-Apr

Soil: Red sandy clay loam (Minnipa No909)
1000 mm max rooting depth

Stubble: 2000 kg/ha of Wheat
No till

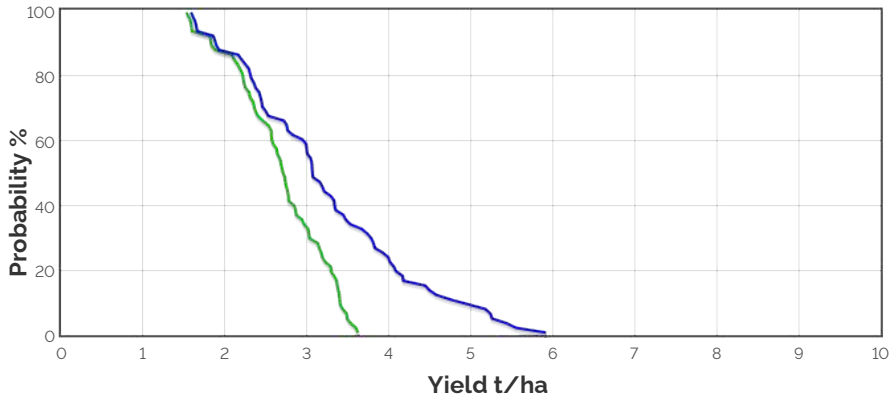
Grain Yield Outcome

☑ Nitrogen limited Yield

☐ Nitrogen limited Yield with Frost and heat Effects

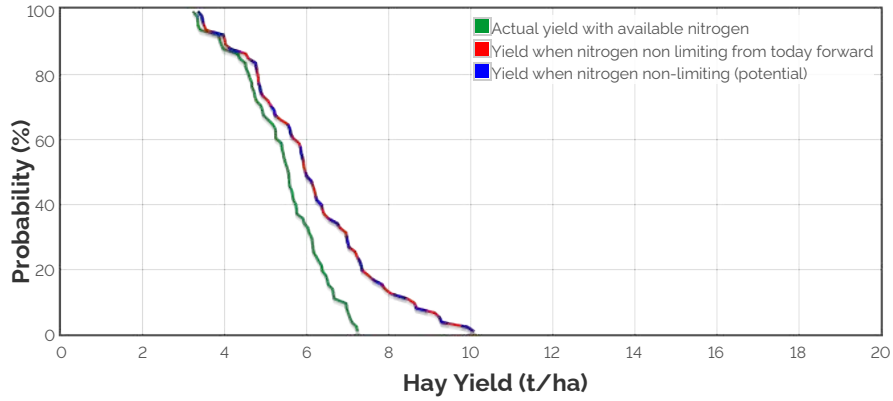
☑ Water limited Yield

☐ 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.

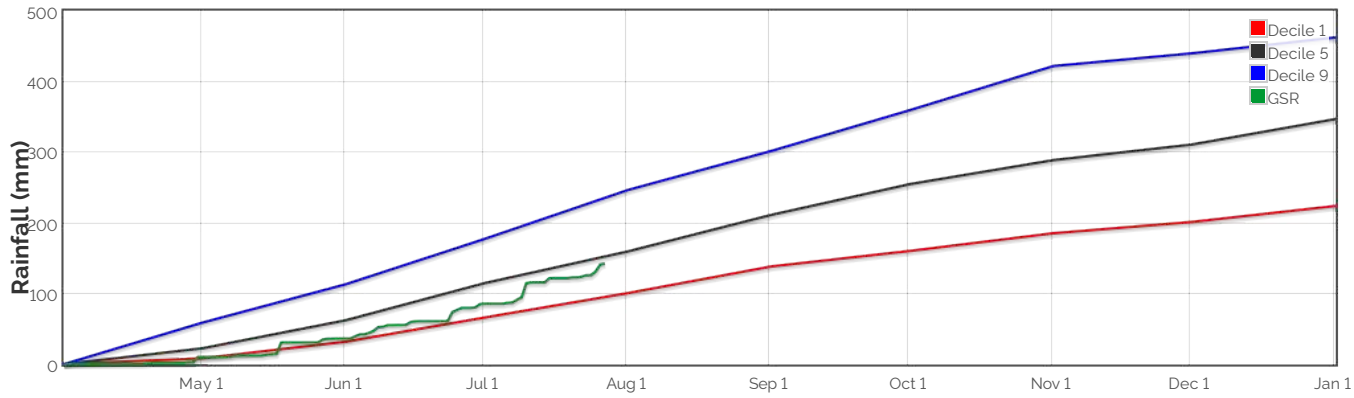
Hay Yield Outcome



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: 1459.4026732568248kg/ha

The Season So Far - Growing Season Rainfall Deciles



Simulated and Predicted Crop Growth Stage

	GS11	GS12	GS13	GS14	GS15	GS16
	emergence	2nd leaf	3rd leaf 1st tiller	4th leaf early tillering	5th leaf mid tillering	6th leaf late tillering
Predicted						
Earliest	3-Jun	10-Jun	21-Jun	30-Jun	10-Jul	21-Jul
Median	3-Jun	10-Jun	21-Jun	30-Jun	10-Jul	21-Jul
Latest	3-Jun	10-Jun	21-Jun	30-Jun	10-Jul	21-Jul

	GS30	GS31	GS32	GS37	GS39	GS45	GS55	GS65	GS75
	end of tillering	1st node	2nd node	flag leaf	flag leaf fully emerged	mid booting	mid head emergence	mid flowering	mid dough fill
Predicted									
Earliest	28-Jul	2-Aug	6-Aug	15-Aug	15-Aug	22-Aug	31-Aug	6-Sep	23-Sep
Median	28-Jul	4-Aug	10-Aug	18-Aug	19-Aug	26-Aug	7-Sep	12-Sep	30-Sep
Latest	28-Jul	5-Aug	13-Aug	23-Aug	23-Aug	1-Sep	12-Sep	19-Sep	9-Oct

Probability and Incidence of Frost and Heat Shock

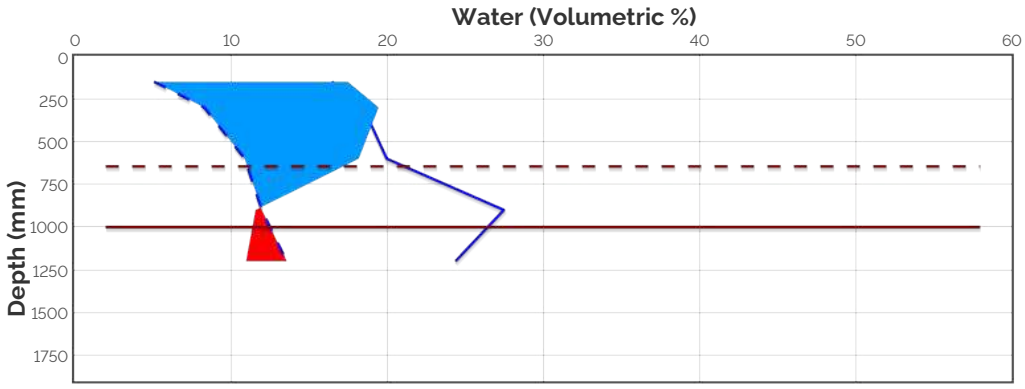
Frost damage during flowering

	Probability	This Season
mild 2 to 0°C during flowering	1%	0
moderate 0 to -2°C during flowering & early grain fill	0%	0
severe Less than -2°C during flowering & grain fill	0%	0

Heat damage during grain fill

	Probability	This Season
mild 32 to 34°C	33%	0
moderate 34 to 36°C	15%	0
severe Above 36°C	4%	0

Current Distribution of PAW



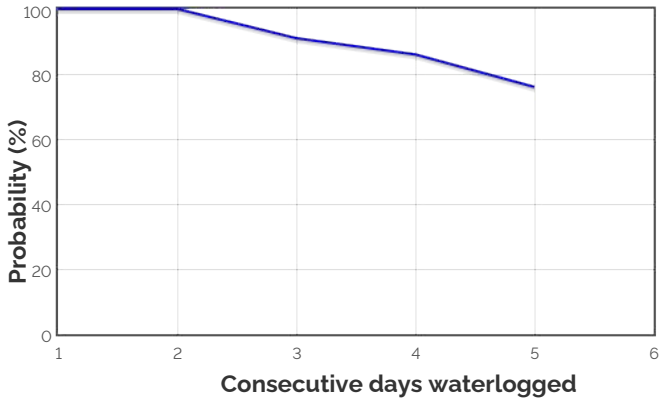
Current root depth = 645 mm
Median final root depth = 1000 mm
Current crop PAW available to roots = 57 mm
Total Soil PAW = 57 mm
PAWC = 139 mm

PAW = Plant Available Water
CLL = Crop Lower Limit or Wilting Point
DUL = Drained Upper Limit or Field Capacity
PAWC = Plant Available Water Capacity
Current Crop PAW = Soil water currently accessible to the roots down to the current rooting depth
Soil PAW = Total accessible soil water in the soil profile

Water Budget

Initial PAW status @ 1-Apr	9 mm
Rainfall since 1-Apr	142.4 mm
Irrigations	
Evaporation since 1-Apr	73 mm
Transpiration since 1-Apr	20 mm
Deep drainage since 1-Apr	0 mm
Run-off since 1-Apr	0 mm
Current PAW status:	**57 mm**

Probability of Future Waterlogging Events

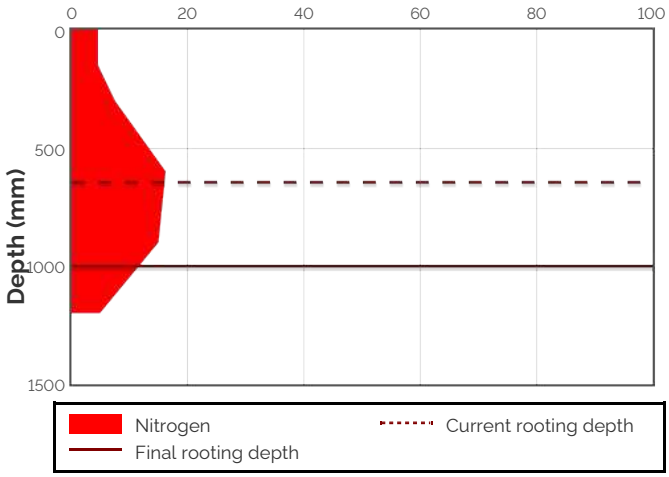


Nitrogen Budget

Initial N status @ 1-Apr	106 kg/ha
N mineralisation since 1-Apr	27 kg/ha
N tie up since 1-Apr	0 kg/ha
N applications	
	30-Apr : 14 kg/ha
Total N in plant	67 kg/ha
De-nitrification since 1-Apr	0 kg/ha
Leaching since 1-Apr	0 kg/ha
Current N status:	**49 kg/ha**

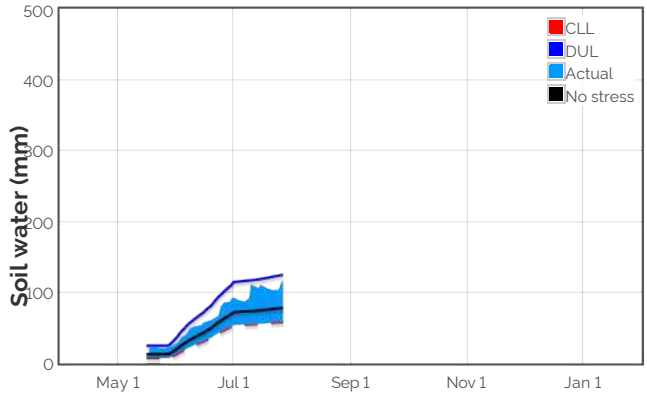
Median N mineralisation to maturity = 40.1892151376411 kg/ha
Median N tie up to maturity = 0 kg/ha

Current distribution of soil nitrogen (kg/ha)

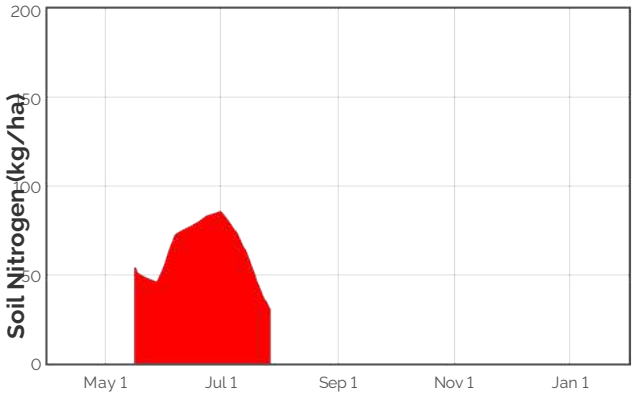


Current Crop Available N = 30 kg/ha
Total Soil N = 49 kg/ha

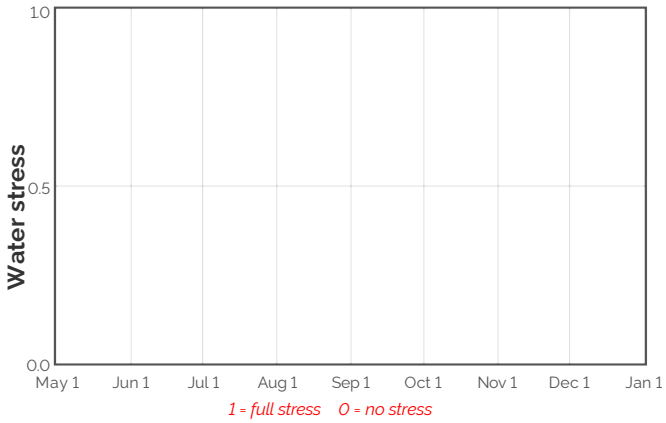
Availability of Water to Growing Roots



Availability of Soil Nitrogen to Growing Roots

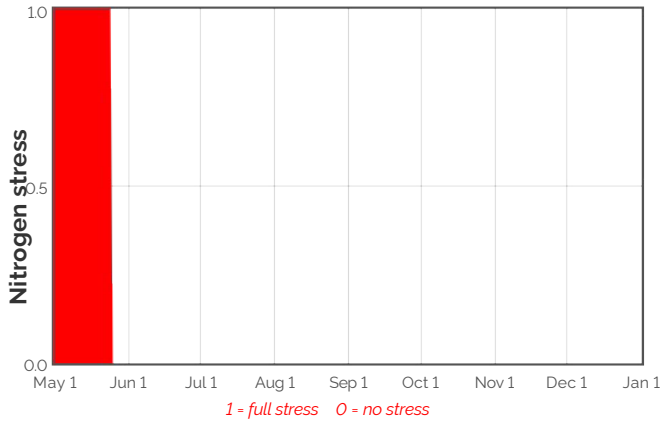


Water Stress



1 = full stress 0 = no stress

Nitrogen Stress



1 = full stress 0 = no 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.

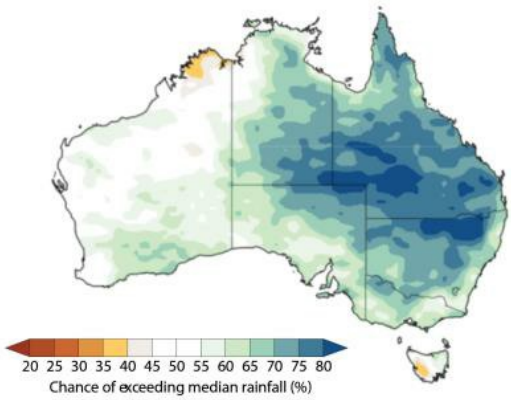
Median projected crop performance and requirements for the next 10 days assuming no rain and no added fertiliser

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	30.2	0.6	1.1	-1.8	35.7	55.8	28.7	0.2	0.0
30-Jul	30.3	0.6	1.1	-1.6	34.0	54.4	27.3	0.2	0.0
31-Jul	30.5	0.5	1.2	-1.4	32.1	52.6	26.1	0.2	0.0
1-Aug	30.6	0.5	1.2	-1.2	30.3	50.9	25.0	0.2	0.0
2-Aug	30.8	0.5	1.3	-1.0	28.7	49.3	24.2	0.2	0.0
3-Aug	30.9	0.5	1.3	-0.9	26.8	47.6	23.4	0.2	0.0
4-Aug	31.4	0.5	1.3	-0.8	24.7	45.8	22.8	0.2	0.0
5-Aug	31.5	0.5	1.3	-0.7	22.8	44.0	22.3	0.2	0.0
6-Aug	31.6	0.5	1.3	-0.7	20.6	42.0	21.8	0.2	0.0
7-Aug	31.8	0.5	1.3	-0.6	18.7	40.3	21.4	0.2	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

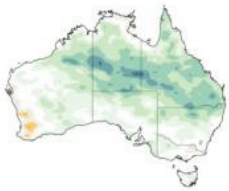
3 MONTH RAINFALL OUTLOOK FOR AUGUST TO OCTOBER



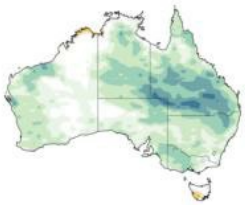
20 25 30 35 40 45 50 55 60 65 70 75 80

Chance of exceeding median rainfall (%)

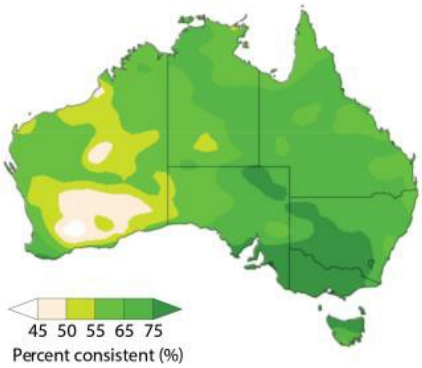
AUGUST RAINFALL OUTLOOK



SEPTEMBER RAINFALL OUTLOOK



PAST ACCURACY FOR AUGUST TO OCTOBER



45 50 55 65 75

Percent consistent (%)

PAST ACCURACY FOR AUGUST

PAST ACCURACY FOR SEPTEMBER

Australian Government
Bureau of Meteorology

Issued: 23 July 2025