

Crop Report

22-Jun-2026

Andrew H Ware: Heddle
Minnipa

Crop: Wheat

Cultivar: Wedgetail

Sowing details: 150 plants/m² on 10-Apr

Expected maturity date: 24-Nov

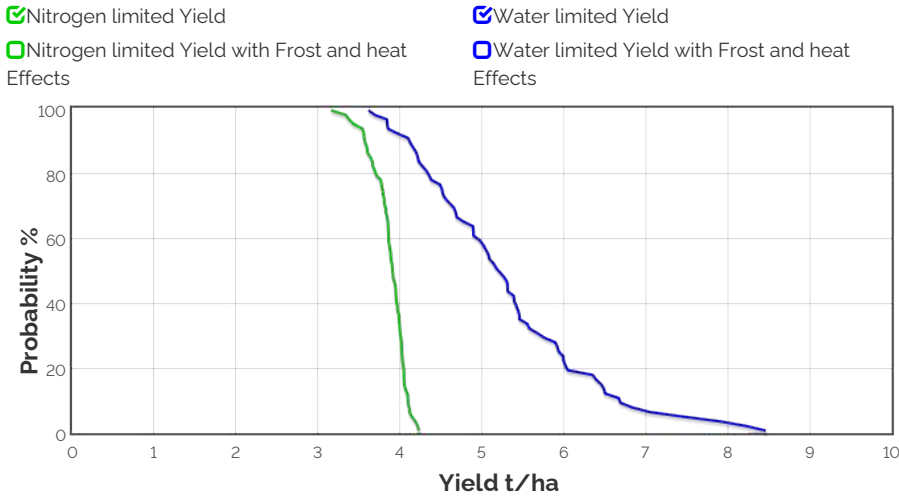
Paddock Details

Initial conditions date: 11-Mar

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

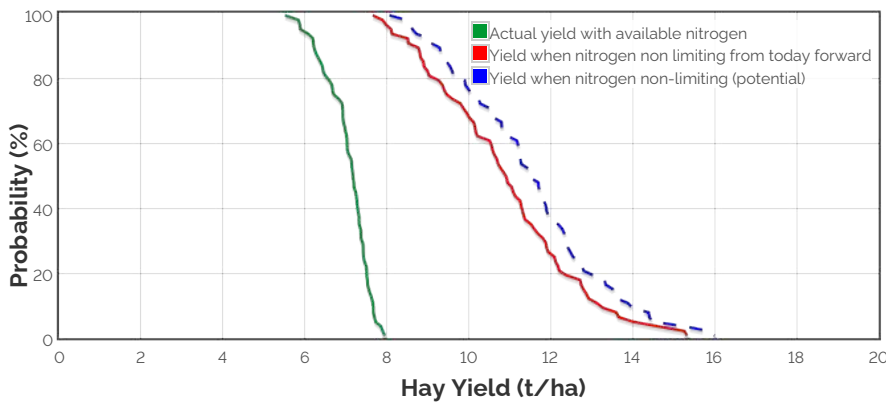
Stubble: 2000 kg/ha of Wheat
No till

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.

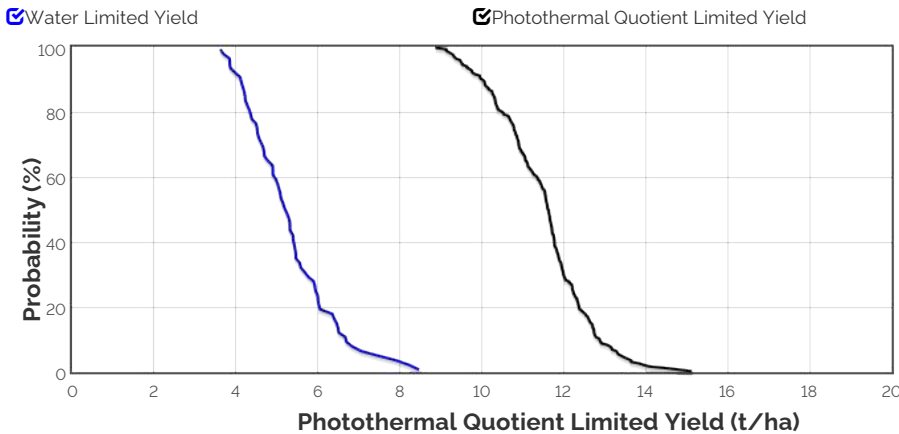
Hay Yield Outcome



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).

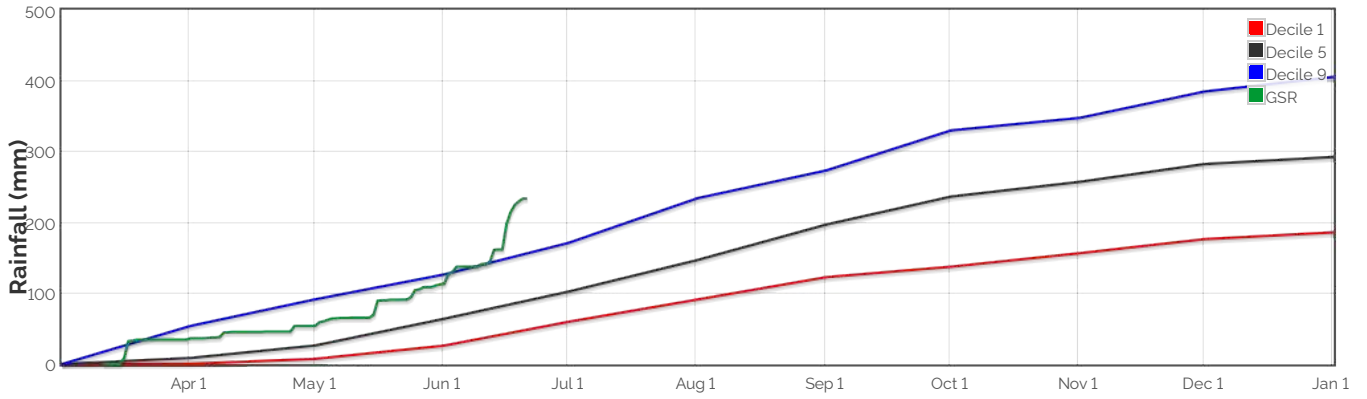
Current dry matter: 2256.511921070801kg/ha

PTQ Yield Outcome



This chart shows the chances of achieving different yield outcomes this season, based on two key limits: water, and the balance of radiation and temperature during the critical period for grain number development (Photothermal quotient). Water-limited yield is estimated from pre-season soil moisture, seasonal weather to date, and agronomic inputs, with future conditions simulated using the long-term weather record from your chosen station. Radiation and temperature-limited yield is estimated by modelling a range of flowering dates and calculating the ratio between radiation and temperature during the critical period for grain number determination. In most cases, water is the main constraint on yield, but in wetter seasons or locations, radiation and temperature can also limit yield if crop development is not well aligned with the environment. Earlier flowering often reduces potential from radiation due to shorter day lengths and cloudier conditions, while later flowering increases radiation but higher temperatures shorten the critical period, causing yield potential to decline again. These limits assume >90% light interception during the critical period and do not account for frost or heat events pre or post flowering, nor for other grain-filling stresses that reduce harvest index and grain size.

The Season So Far - Growing Season Rainfall Deciles



Simulated and Predicted Crop Growth Stage



Predicted

Earliest	24-Apr	28-Apr	4-May	12-May	20-May	28-May
Median	24-Apr	28-Apr	4-May	12-May	20-May	28-May
Latest	24-Apr	28-Apr	4-May	12-May	20-May	28-May



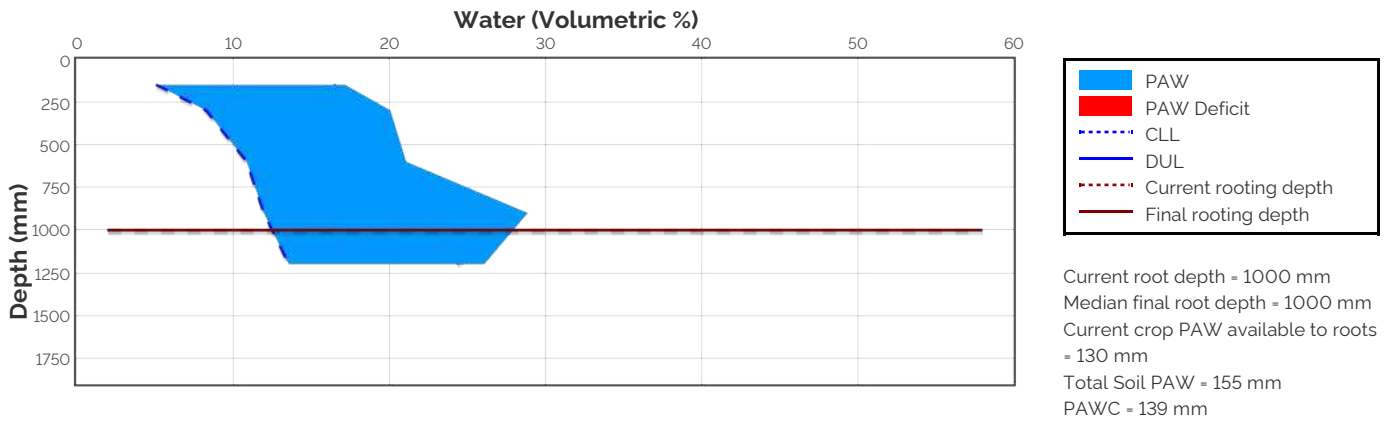
Predicted

Earliest	23-Jul	2-Aug	13-Aug	26-Aug	28-Aug	2-Sep	10-Sep	15-Sep	1-Oct
Median	28-Jul	8-Aug	18-Aug	31-Aug	2-Sep	8-Sep	16-Sep	22-Sep	9-Oct
Latest	4-Aug	17-Aug	28-Aug	12-Sep	13-Sep	19-Sep	28-Sep	5-Oct	21-Oct

Probability and Incidence of Frost and Heat Shock

Frost damage during flowering				Heat damage during grain fill			
Probability	This Season			Probability	This Season		
mild 2 to 0°C during flowering		5%	0	mild 32 to 34°C		71%	0
moderate 0 to -2°C during flowering & early grain fill		0%	0	moderate 34 to 36°C		34%	0
severe Less than -2°C during flowering & grain fill		0%	0	severe Above 36°C		25%	0

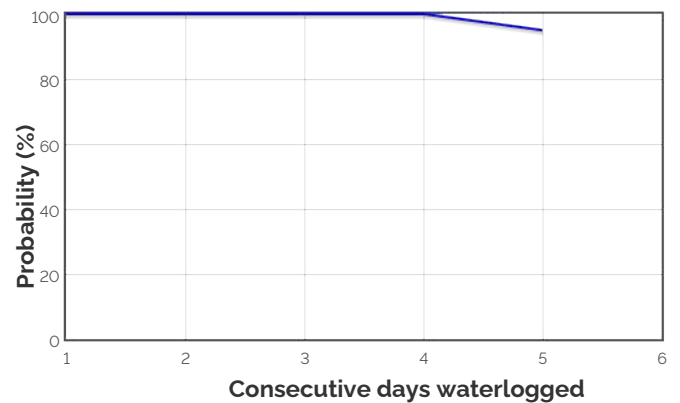
Current Distribution of PAW



Water Budget

Initial PAW status @ 11-Mar	111 mm
Rainfall since 11-Mar	233.9 mm
Irrigations	
Evaporation since 11-Mar	76 mm
Transpiration since 11-Mar	36 mm
Deep drainage since 11-Mar	75 mm
Run-off since 11-Mar	6 mm
Current PAW status:	155 mm

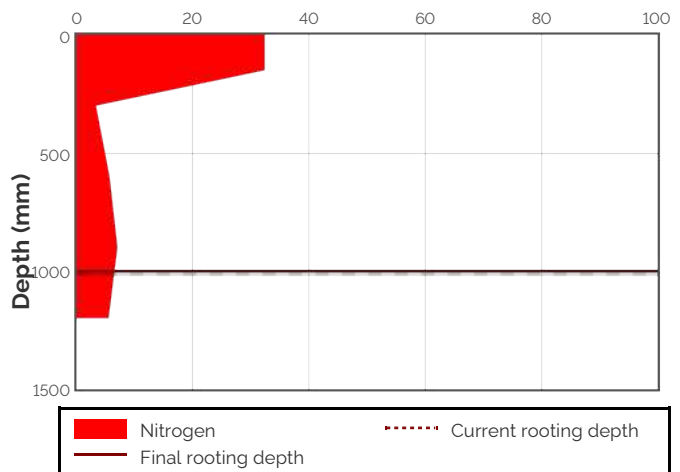
Probability of Future Waterlogging Events



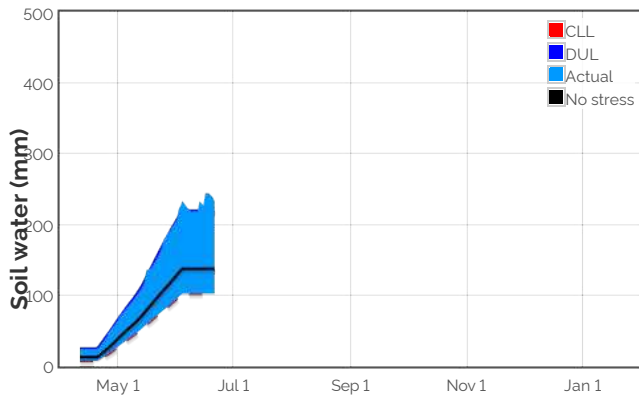
Nitrogen Budget

Initial N status @ 11-Mar	60 kg/ha
N mineralisation since 11-Mar	37 kg/ha
N tie up since 11-Mar	0 kg/ha
N applications	
10-Apr : 6.5 kg/ha	
25-May : 40 kg/ha	
21-Jun : 40 kg/ha	
Total N in plant	93 kg/ha
De-nitrification since 11-Mar	0 kg/ha
Leaching since 11-Mar	5 kg/ha
Current N status:	56 kg/ha
Median N mineralisation to maturity = 59.9389513267795 kg/ha	
Median N tie up to maturity = 0 kg/ha	

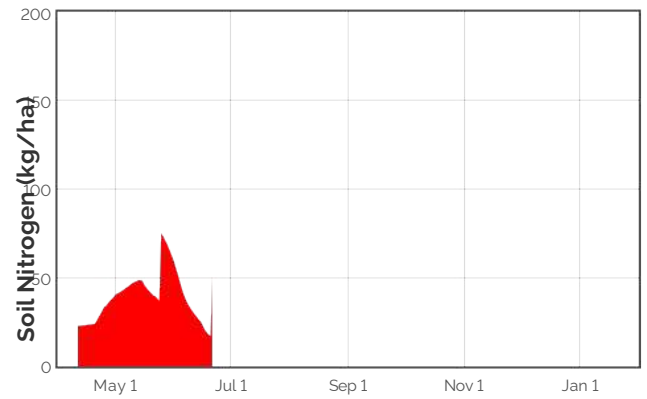
Current distribution of soil nitrogen (kg/ha)



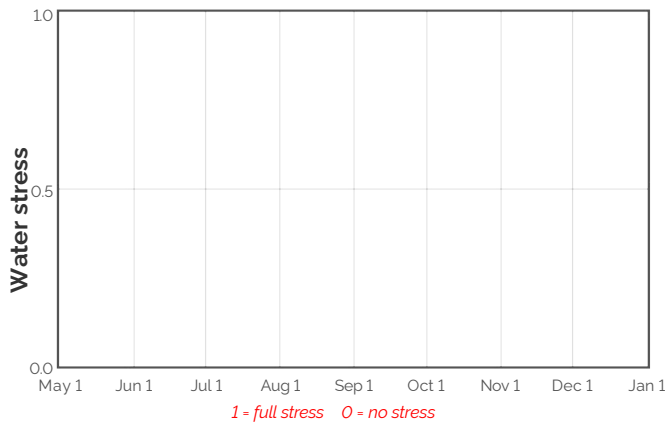
Availability of Water to Growing Roots



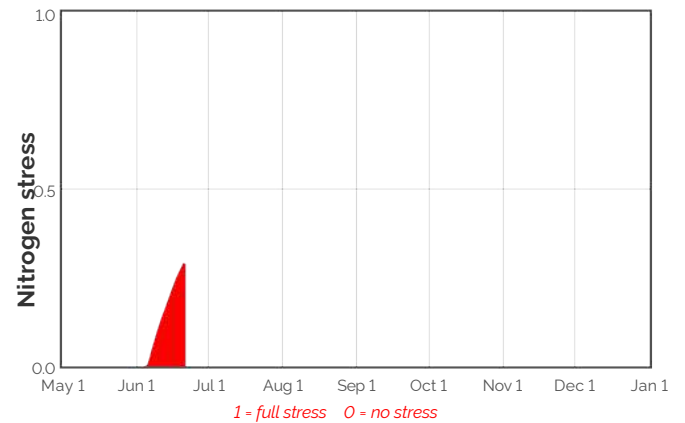
Availability of Soil Nitrogen to Growing Roots



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.

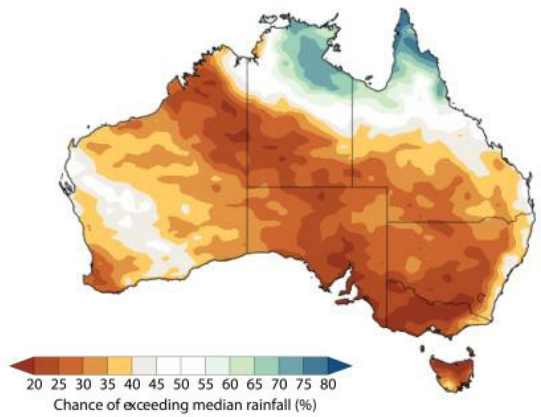
Median projected crop performance and requirements for the next 10 days assuming no rain and no added fertiliser

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)
23-Jun	16.0	0.4	1.1	-2.4	90.0	125.2	47.6	0.2	0.0
24-Jun	16.0	0.4	1.2	-2.6	86.4	121.4	44.9	0.2	0.0
25-Jun	16.0	0.4	1.1	-2.7	83.6	118.6	42.2	0.2	0.0
26-Jun	16.0	0.4	1.2	-2.8	81.5	116.6	39.4	0.2	0.0
27-Jun	16.0	0.4	1.2	-2.8	79.6	114.8	36.6	0.2	0.0
28-Jun	16.0	0.4	1.3	-2.9	78.2	113.3	33.8	0.2	0.0
29-Jun	16.0	0.4	1.4	-2.6	76.7	111.8	31.3	0.2	0.0
30-Jun	16.0	0.4	1.2	-2.2	75.0	110.0	29.3	0.2	0.0
1-Jul	16.0	0.4	1.2	-1.8	73.4	108.4	27.6	0.2	0.0
2-Jul	16.0	0.4	1.2	-1.5	71.5	106.6	26.1	0.2	0.0

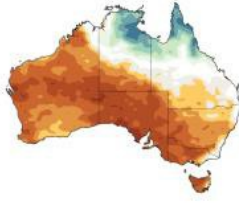
The water available to roots above the stress threshold is the amount of PAW (mm) above one third of the total water holding capacity of this soil. If the water values are below this stress threshold the water available to roots above the stress threshold will be negative.

Bureau of Meteorology Seasonal and Monthly Outlooks

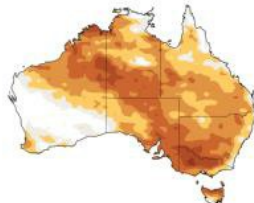
3 MONTH RAINFALL OUTLOOK FOR APRIL TO JUNE



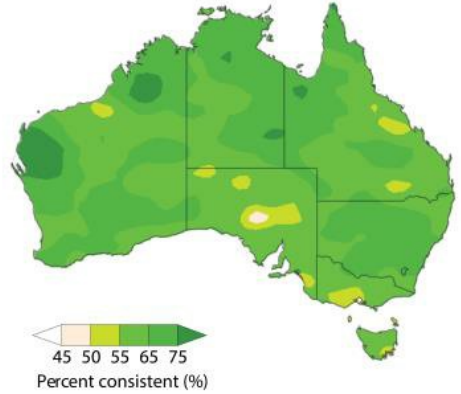
APRIL RAINFALL OUTLOOK



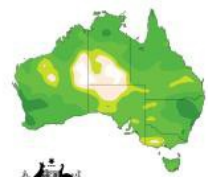
MAY RAINFALL OUTLOOK



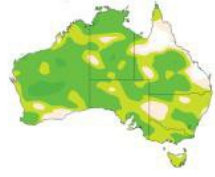
PAST ACCURACY FOR APRIL TO JUNE



PAST ACCURACY FOR APRIL



PAST ACCURACY FOR MAY




Australian Government
Bureau of Meteorology

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