

# Crop Report

8-Jun-2026

Andrew H Ware: Port  
Kenny

Crop: Barley

Cultivar: RGTPlanet

Sowing details: 150 plants/m<sup>2</sup> on 29-Apr

Expected maturity date: 12-Oct

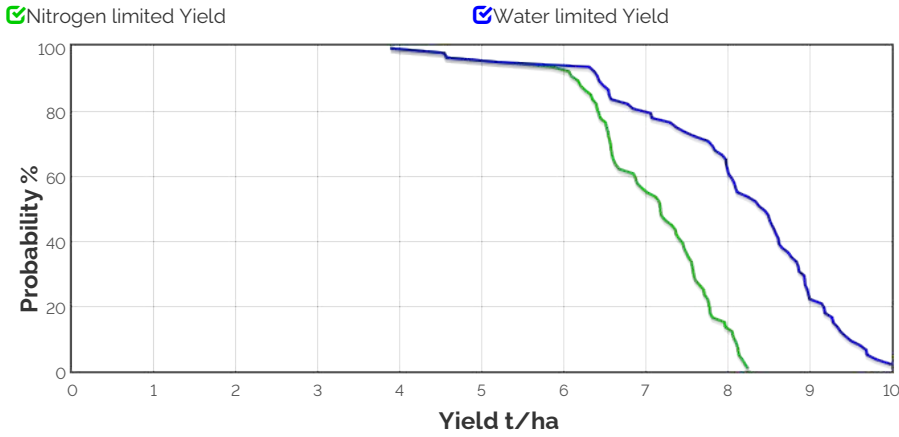
## Paddock Details

Initial conditions date: 29-Mar

Soil: Grey Calcareous Sandy Loam  
(Piednippie No303)  
600 mm max rooting depth

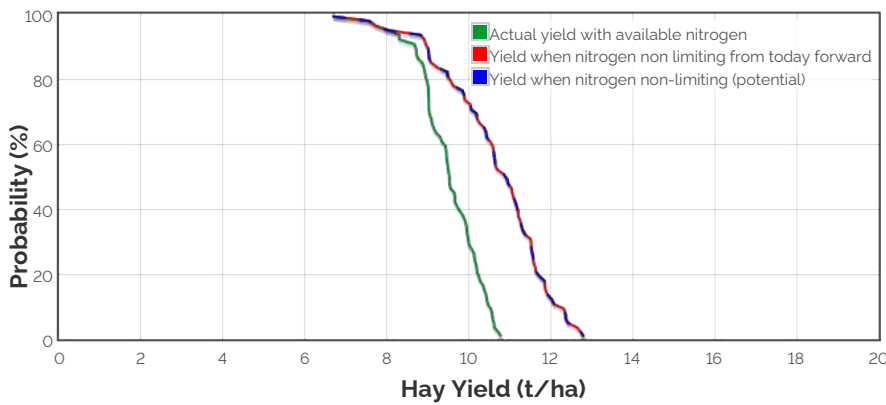
Stubble: 0 kg/ha of Wheat  
No till

## 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.

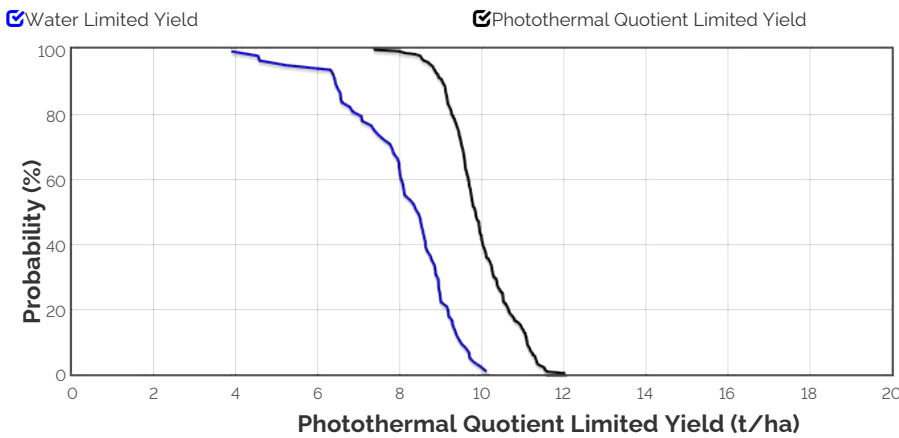
## Hay Yield Outcome



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).

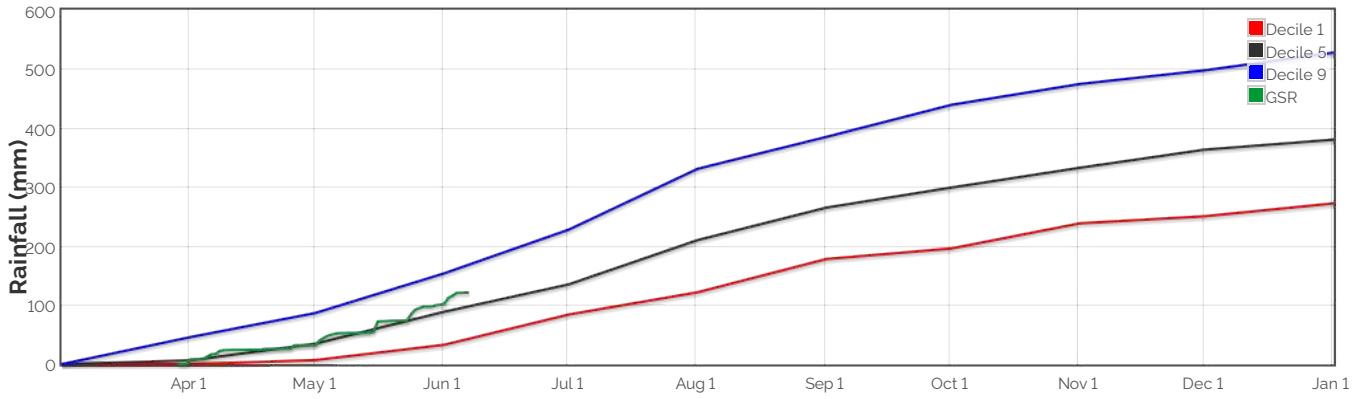
Current dry matter: 1139.1107856409012kg/ha

## 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

	8-May	13-May	16-May	22-May	29-May	4-Jun
Earliest	8-May	13-May	16-May	22-May	29-May	4-Jun
Median	8-May	13-May	16-May	22-May	29-May	4-Jun
Latest	8-May	13-May	16-May	22-May	29-May	4-Jun



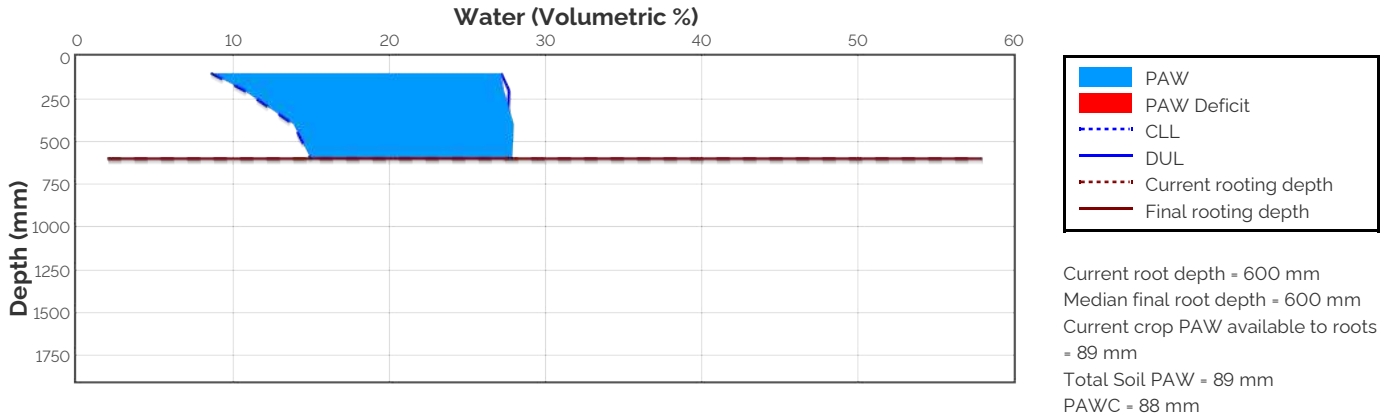
Predicted

	12-Jun	18-Jun	28-Jun	9-Jul	13-Jul	19-Jul	26-Jul	1-Aug	21-Aug
Earliest	12-Jun	18-Jun	28-Jun	9-Jul	13-Jul	19-Jul	26-Jul	1-Aug	21-Aug
Median	15-Jun	23-Jun	6-Jul	18-Jul	20-Jul	26-Jul	1-Aug	8-Aug	30-Aug
Latest	17-Jun	28-Jun	16-Jul	29-Jul	31-Jul	6-Aug	15-Aug	21-Aug	13-Sep

## 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		17%	0	mild 32 to 34°C	2%	0	
moderate 0 to -2°C during flowering & early grain fill		0%	0	moderate 34 to 36°C	0%	0	
severe Less than -2°C during flowering & grain fill		0%	0	severe Above 36°C	0%	0	

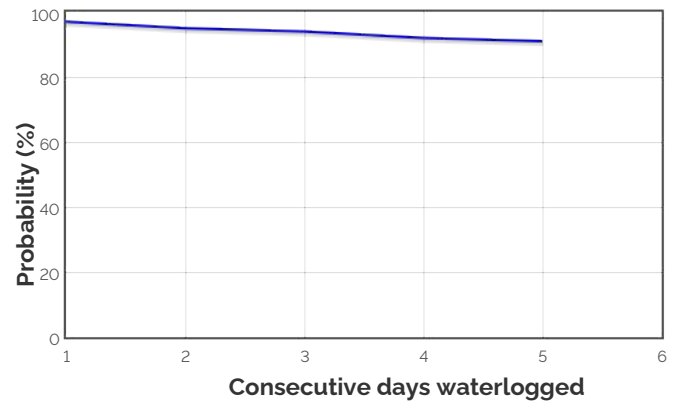
## Current Distribution of PAW



## Water Budget

Initial PAW status @ 29-Mar	68 mm
Rainfall since 29-Mar	121.4 mm
Irrigations	
Evaporation since 29-Mar	77 mm
Transpiration since 29-Mar	14 mm
Deep drainage since 29-Mar	14 mm
Run-off since 29-Mar	0 mm
<b>Current PAW status:</b>	<b>89 mm</b>

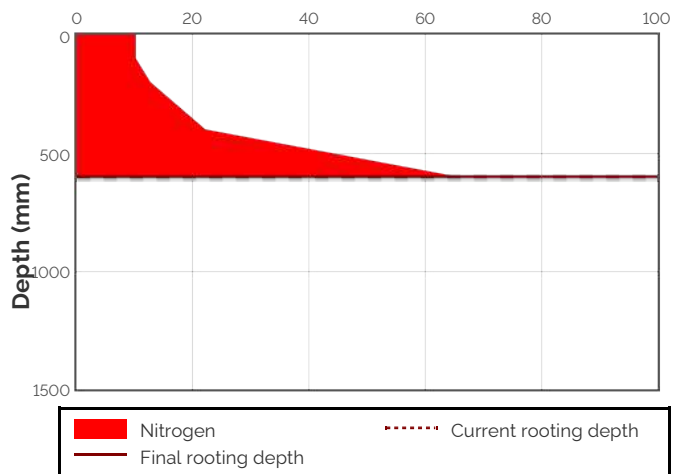
## Probability of Future Waterlogging Events



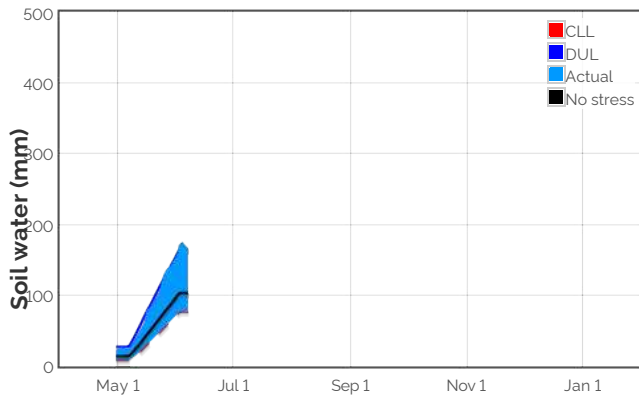
## Nitrogen Budget

Initial N status @ 29-Mar	131 kg/ha
N mineralisation since 29-Mar	45 kg/ha
N tie up since 29-Mar	0 kg/ha
N applications	
	29-Apr : 26 kg/ha
	22-May : 33.2 kg/ha
Total N in plant	53 kg/ha
De-nitrification since 29-Mar	0 kg/ha
Leaching since 29-Mar	19 kg/ha
<b>Current N status:</b>	<b>111 kg/ha</b>
Median N mineralisation to maturity = 68.2978004412843 kg/ha	
Median N tie up to maturity = 0 kg/ha	

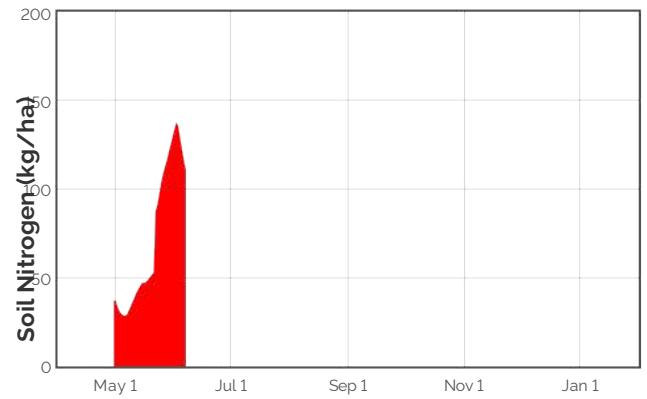
## Current distribution of soil nitrogen (kg/ha)



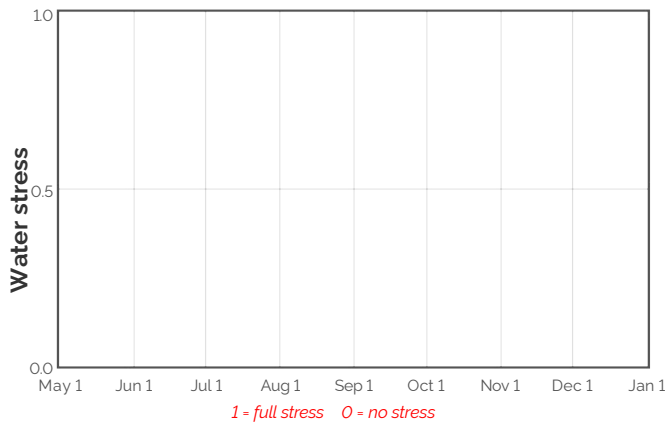
## Availability of Water to Growing Roots



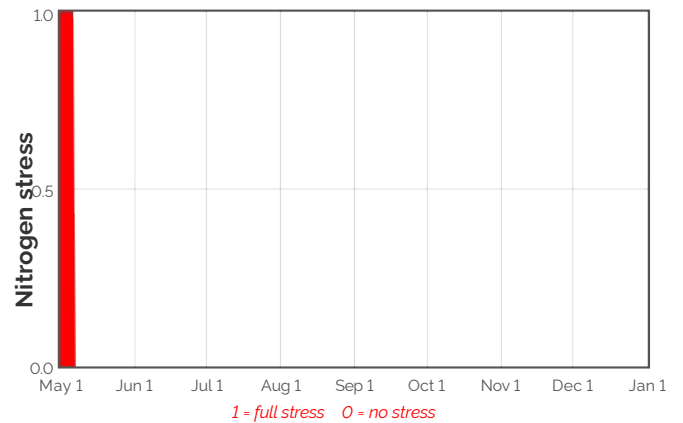
## Availability of Soil Nitrogen to Growing Roots



## 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.

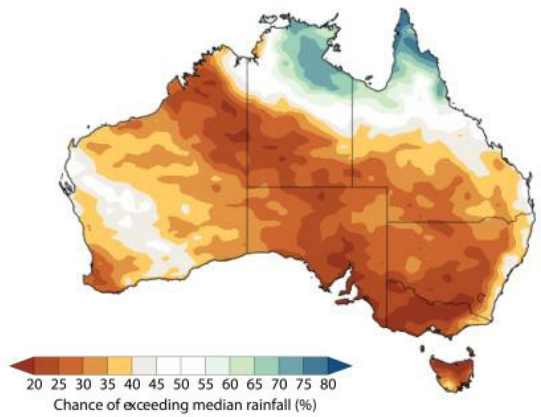
## Median projected crop performance and requirements for the next 10 days assuming no rain and no added fertiliser

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)
9-Jun	16.0	0.4	1.2	-3.4	60.8	87.1	106.5	0.4	0.0
10-Jun	16.0	0.4	1.2	-3.5	59.4	85.8	102.9	0.4	0.0
11-Jun	16.0	0.4	1.2	-3.6	58.0	84.4	99.3	0.4	0.0
12-Jun	16.0	0.4	1.3	-3.9	56.6	82.9	95.8	0.4	0.0
13-Jun	16.0	0.4	1.4	-3.9	55.0	81.4	92.2	0.4	0.0
14-Jun	16.0	0.3	1.3	-3.2	53.4	79.8	89.1	0.4	0.0
15-Jun	30.1	0.3	1.3	-3.2	51.9	78.2	86.0	0.4	0.0
16-Jun	30.2	0.4	1.4	-3.5	50.4	76.8	83.6	0.4	0.0
17-Jun	30.3	0.3	1.4	-3.4	48.7	75.0	80.2	0.4	0.0
18-Jun	30.4	0.3	1.4	-3.3	46.8	73.2	77.0	0.4	0.0

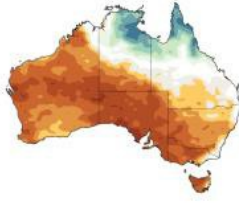
The water available to roots above the stress threshold is the amount of PAW (mm) above one third of the total water holding capacity of this soil. If the water values are below this stress threshold the water available to roots above the stress threshold will be negative.

# Bureau of Meteorology Seasonal and Monthly Outlooks

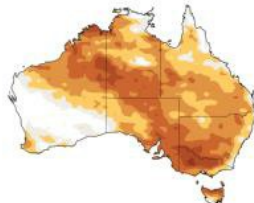
## 3 MONTH RAINFALL OUTLOOK FOR APRIL TO JUNE



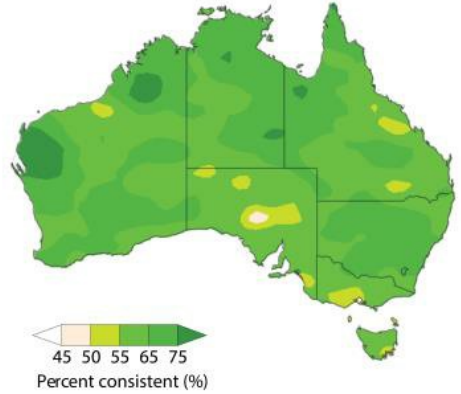
APRIL RAINFALL OUTLOOK



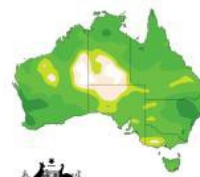
MAY RAINFALL OUTLOOK



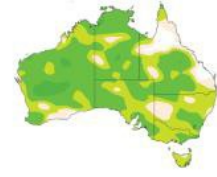
## PAST ACCURACY FOR APRIL TO JUNE



PAST ACCURACY FOR APRIL



PAST ACCURACY FOR MAY



  
Australian Government  
Bureau of Meteorology

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Issued: 31 March 2026