

## **Crop Report**

19-Sep-2025

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Crop: Wheat Cultivar: Scepter

Sowing details: 200 plants/m<sup>2</sup> on 25-May Expected maturity date: 30-Nov

#### Paddock Details

Initial conditions date: 1-Feb

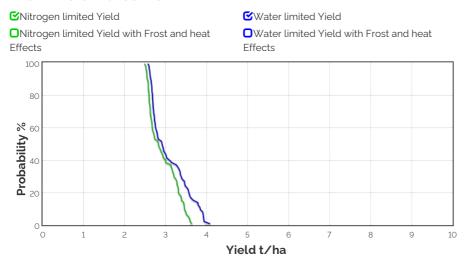
Soil: Loamy Sand over Clay Loam (Greenpatch No588)

1000 mm max rooting depth

Stubble: 3000 kg/ha of Wheat

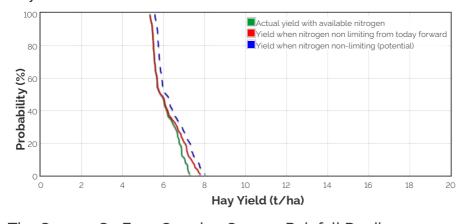
No till

#### 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



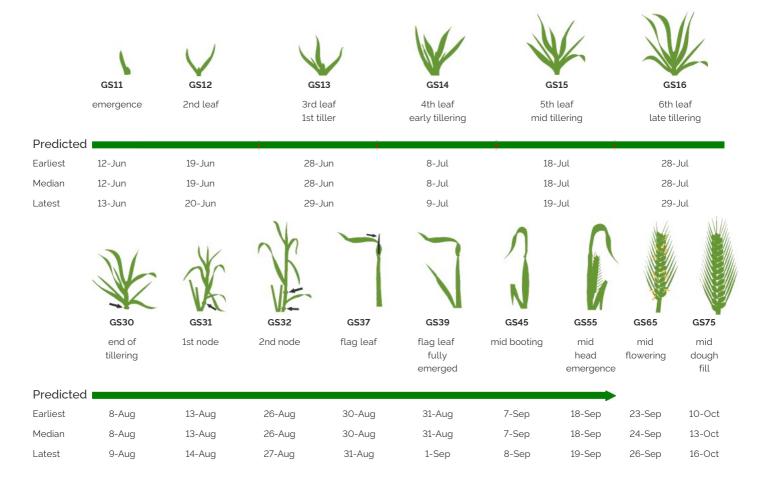
This graph shows the probability of exceeding a range of hay yield outcomes this season. It takes into account the same factors as the grain yield graph above. When above ground dry matter is below 2t/ha, hay yield is assumed to be 70% of dry matter, with a moisture content of 13%. When dry matter is 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: 5947.536059942736kg/ha

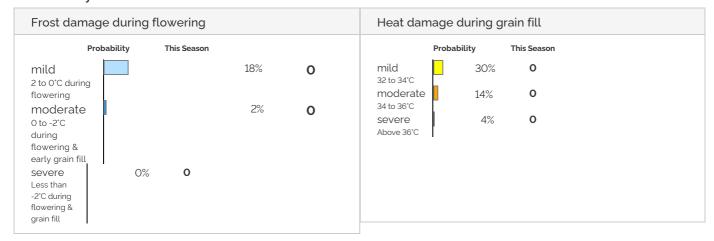
#### The Season So Far - Growing Season Rainfall Deciles



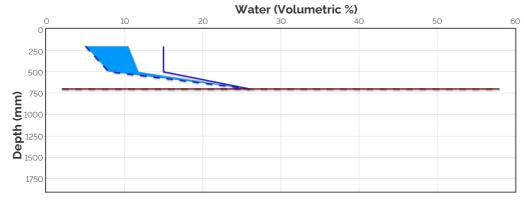
## Simulated and Predicted Crop Growth Stage



#### Probability and Incidence of Frost and Heat Shock



#### **Current Distribution of PAW**



PAW
PAW Deficit
CLL
DUL
Current rooting depth
Final rooting depth

Current root depth = 700 mm Median final root depth = 700 mm Current crop PAW available to roots = 23 mm Total Soil PAW = 23 mm PAWC = 41 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

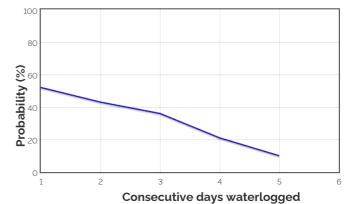
Initial PAW status @ 1-Feb Rainfall since 1-Feb Irrigations Evaporation since 1-Feb Transpiration since 1-Feb Deep drainage since 1-Feb Run-off since 1-Feb

Current PAW status:

30 mm 317.9 mm 132 mm 116 mm 102 mm 4 mm

23 mm

## Probability of Future Waterlogging Events

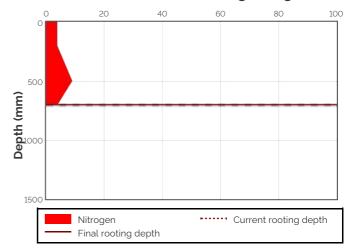


#### Nitrogen Budget

Initial N status @ 1-Feb 57 kg/ha 107 kg/ha N mineralisation since 1-Feb N tie up since 1-Feb 0 kg/ha N applications 10-May : 20 kg/ha Total N in plant 109 kg/ha De-nitrification since 1-Feb 0 kg/ha Leaching since 1-Feb 81 kg/ha **Current N status:** 20 kg/ha

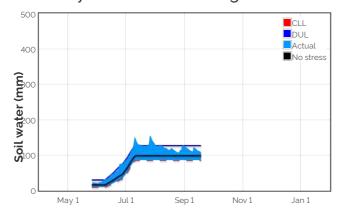
Median N mineralisation to maturity = 66.149373283298 kg/ha Median N tie up to maturity = 0 kg/ha

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

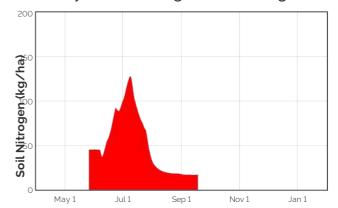


Current Crop Available N = 17 kg/ha Total Soil N = 20 kg/ha

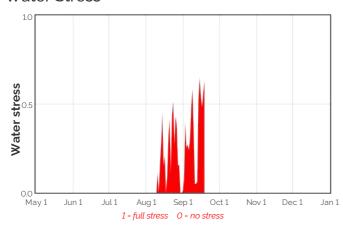
### Availability of Water to Growing Roots



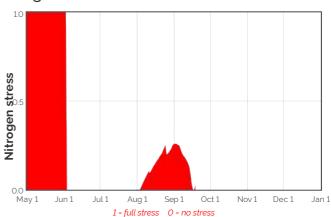
#### Availability of Soil Nitrogen to Growing Roots



#### 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	Evap.	Water	N use	Water avail. to roots	Water avail. to roots	N avail.	MineralisationN tie up	
	Stage	(mm)	use	(kg/ha)	above stress threshold	above CLL (mm)	to roots	(kg/ha)	(kg/ha)
			(mm)		(mm)		(kg/ha)		
20-Sep	58.9	0.7	2.9	-0.3	9.1	21.4	16.9	0.3	0.0
21-Sep	60.5	0.7	2.4	-0.3	7.4	19.7	16.9	0.3	0.0
22-Sep	62.0	0.7	2.6	-0.3	5.9	18.2	17.0	0.3	0.0
23-Sep	63.5	0.6	2.4	-0.3	4.5	16.8	17.1	0.3	0.0
24-Sep	65.1	0.6	2.1	-0.3	3.0	15.3	17.2	0.3	0.0
25-Sep	65.8	0.5	2.2	-0.3	1.8	14.1	17.3	0.3	0.0
26-Sep	66.3	0.4	2.0	-0.3	0.6	12.9	17.4	0.3	0.0
27-Sep	67.0	0.4	2.1	-0.3	-O.5	11.8	17.5	0.3	0.0
28-Sep	67.7	0.4	2.2	-0.2	-1.5	10.8	17.6	0.3	0.0
29-Sep	68.4	0.3	2.0	-0.2	-2.3	10.0	17.7	0.3	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

