

Crop: Canola

Cultivar: Early

Sowing details: 45 plants/m² on 29-Apr

Expected maturity date: 18-Oct

Crop Report

Paddock Details

Initial conditions date: 24-Mar

1200 mm max rooting depth

(Yeelanna No590)

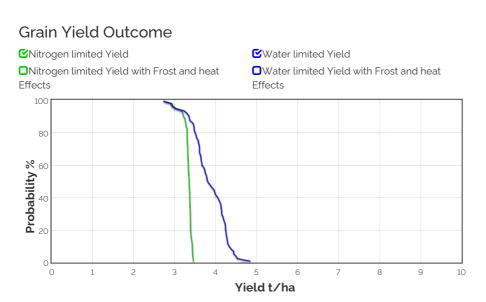
Stubble: 1000 kg/ha of Lentil No till

Clay Loam over Loamy Medium Clay

Save as PDF

18-Aug-2022

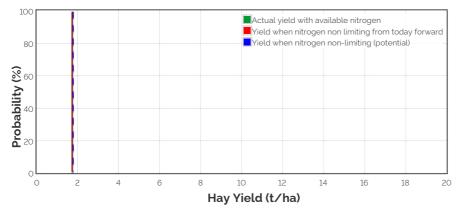
Resilient EP Soil Moisture Probe Network: Yeelanna



Soil

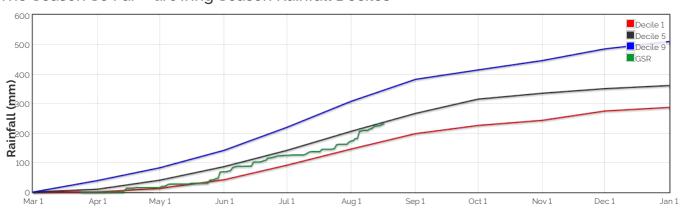
This graph shows the probability of exceeding a range of yield outcomes this season. It takes into account your pre-season soil moisture, the weather conditions so far, soil N and agronomic inputs. The long term record from your nominated weather station is then used to simulate what would have happened from this date on in each year of the climate record. The yield results are used to produce this graph.

Hay Yield Outcome



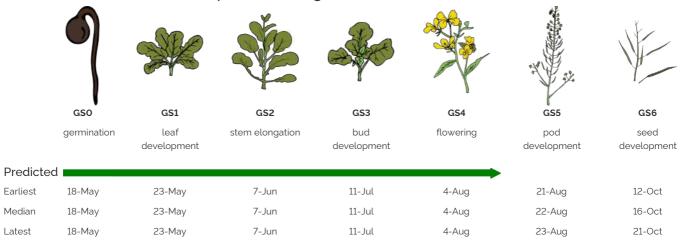
This graph shows the probability of exceeding a range of hay yield outcomes this season. It takes into account the same factors as the grain yield graph above. When above ground dry matter is below 2t/ha, hay yield is assumed to be 70% of dry matter, with a moisture content of 13%. When dry matter is 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: 4536.8kg/ha



The Season So Far - Growing Season Rainfall Deciles

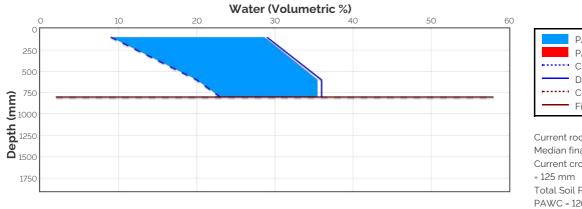
Simulated and Predicted Crop Growth Stage



Probability and Incidence of Frost and Heat Shock

Frost damage during flow	Heat damage	Heat damage during grain fill				
Probability Th	Prol	Probability		This Season		
mild 2 to 0°C during	25%	0	mild 32 to 34°C	12%	0	
flowering			moderate	0%	0	
moderate 0 to -2°C during flowering & early grain fill	3%	0	34 to 36°C Severe Above 36°C	0%	0	
Severe 0% Less than -2°C during flowering & grain fill	0					

Current Distribution of PAW



PAW PAW Deficit CLL DUL Current rooting depth Final rooting depth

Current root depth = 800 mm Median final root depth = 800 mm Current crop PAW available to roots = 125 mm Total Soil PAW = 125 mm PAWC = 126 mm

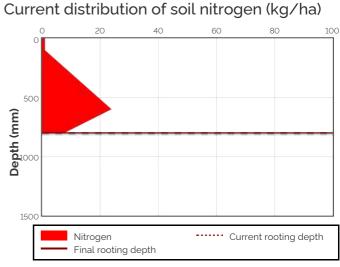
PAW = Plant Available Water

- 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		Probabili	ity of Fut	ure Wa	terloggi	ng Events
Initial PAW status (a) 24-Mar Rainfall since 24-Mar Irrigations Evaporation since 24-Mar Transpiration since 24-Mar Deep drainage since 24-Mar Run-off since 24-Mar Current PAW status :	90 mm 230.4 mm 54 mm 14 mm 1 mm 125 mm	brobability (%)	2	3 onsecutive	4 e days wat	5 erlogged
Nitrogen Budget		Current o	distributi	on of so	oil nitrog	en (kg/ha)
Initial N status @ 24-Mar	121 kg/ha	0	20	40	60	80
N mineralisation since 24-Mar	15 kg/ha	0				
N tie up since 24-Mar N applications	3 kg/ha					
	29-Apr : 16.1 kg/ha					
	16-Jun : 46 kg/ha	500				
Table Nice where	8-Jul : 57.5 kg/ha	Ê				
Total N in plant De-nitrification since 24-Mar	206 kg/ha	<u> </u>				
	1 kg/ba					
Leaching since 24-Mar	1 kg/ha 4 kg/ha	Depth (mm)				

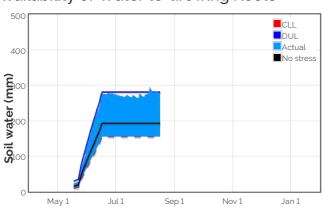
Current N status:

Median N mineralisation to maturity = 3.9655 kg/ha Median N tie up to maturity = 0 kg/ha



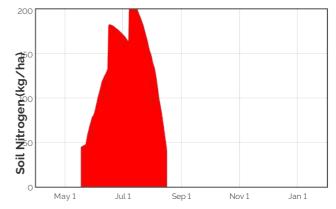
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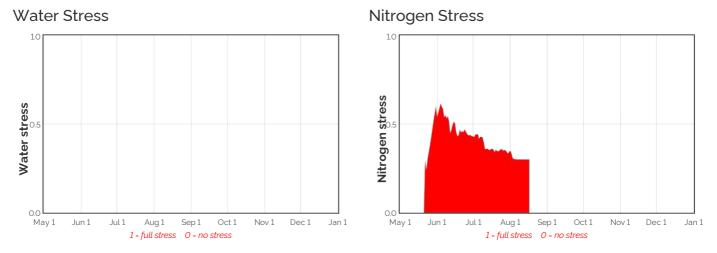
Current Crop Available N = 40 kg/ha Total Soil N = 41 kg/ha



Availability of Water to Growing Roots

Availability of Soil Nitrogen to Growing Roots





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 (mm)	(kg/ha)	above stress threshold (mm)	above CLL (mm)	to roots (kg∕ha)	(kg∕ha)	(kg/ha)
19-Aug	16.0	0.4	2.0	5.5	80.6	118.4	20.5	O.1	0.0
20-Aug	16.O	0.5	1.9	4.3	77.8	115.6	16.2	0.1	0.0
21-Aug	16.0	0.5	1.8	3.4	75.2	113.0	12.9	O.1	0.0
22-Aug	16.O	0.5	1.8	2.7	72.7	110.5	10.4	0.1	0.0
23-Aug	16.0	0.5	1.8	2.1	70.0	107.8	8.4	O.1	0.0
24-Aug	16.0	0.5	2.0	1.7	68.2	106.0	6.8	O.1	0.0
25-Aug	16.O	0.5	2.1	1.3	65.4	103.2	5.5	O.1	0.0
26-Aug	16.O	0.5	2.1	1.1	62.7	100.5	4.5	O.1	0.0
27-Aug	16.0	0.6	2.4	0.9	59.6	97.4	3.7	O.1	0.0
28-Aug	16.0	0.5	2.0	0.7	56.4	94.2	3.1	0.1	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.

