



Crop Report

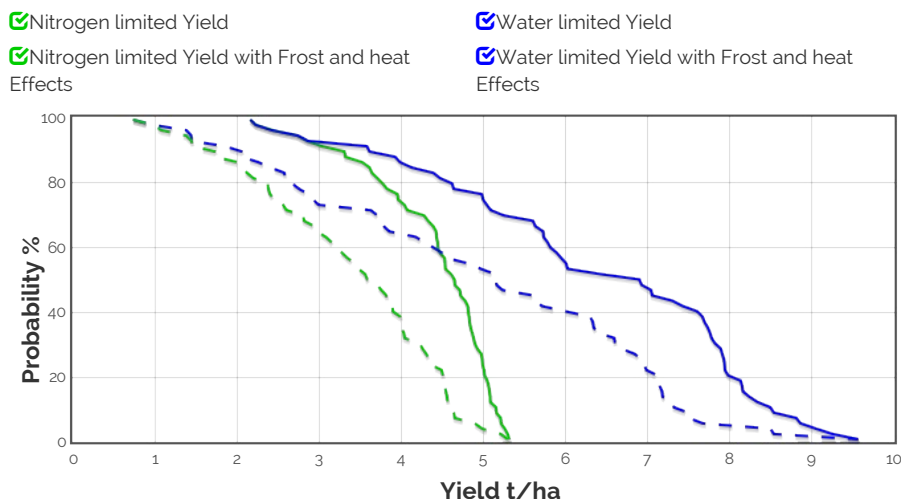
10-Jul-2017

UpperNorthFS: Clark

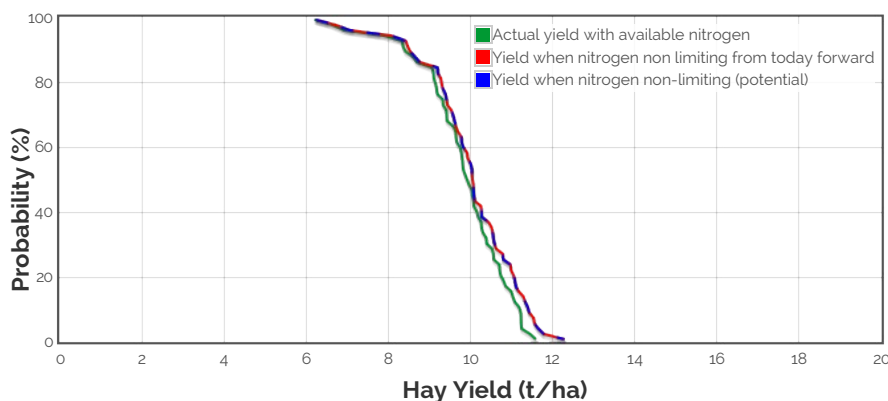
Crop: Wheat
Cultivar: Trojan
Sowing details: 200 plants/m² on 10-May
Expected maturity date: 18-Nov

Paddock Details
Initial conditions date: 24-May
Soil: Loam over clay loam over sandy clay loam (Morchard Hill No604)
1000 mm max rooting depth
Stubble: 1000 kg/ha of Canola
No till

Grain Yield Outcome

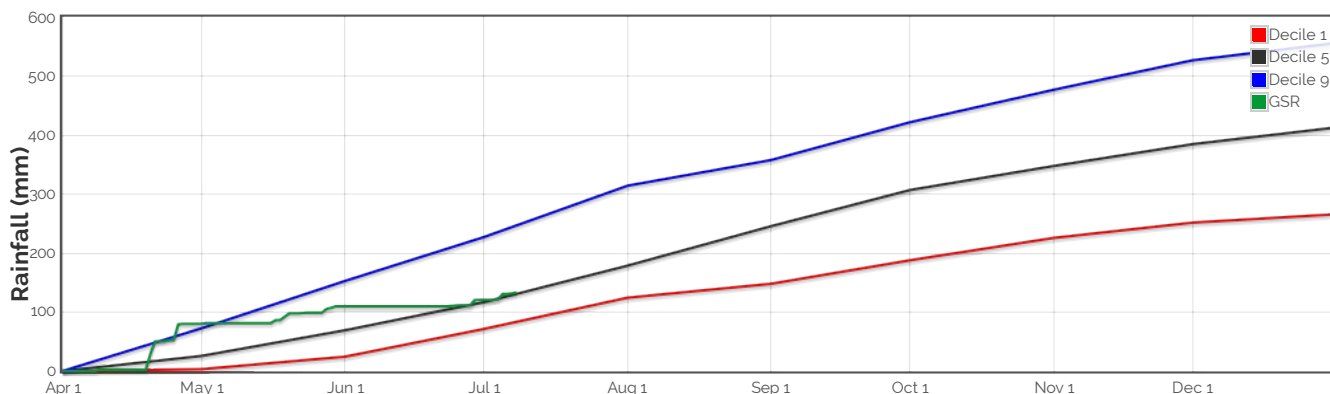


Hay Yield Outcome

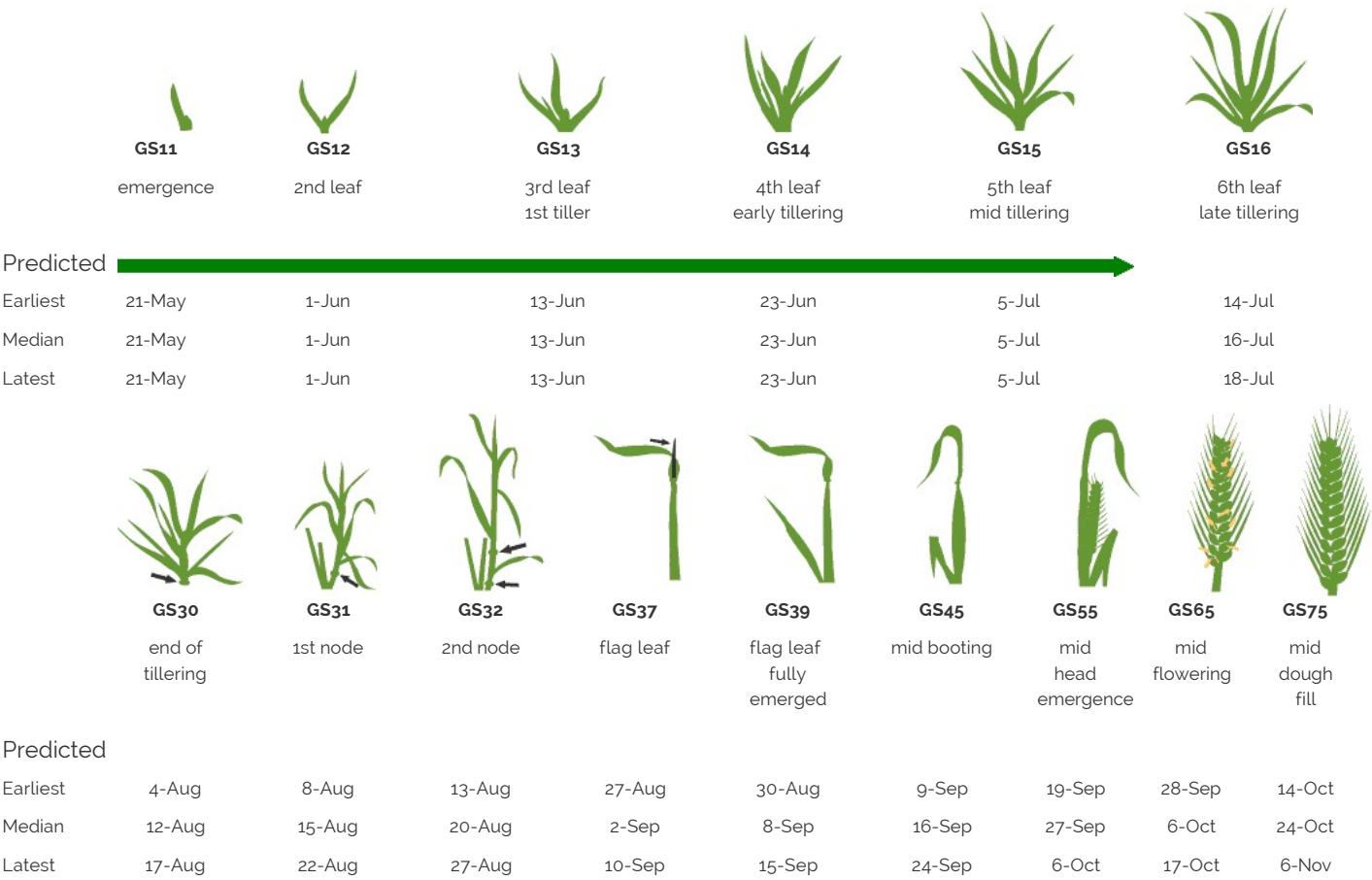


Current dry matter: 858.4kg/ha

The Season So Far - Growing Season Rainfall Deciles



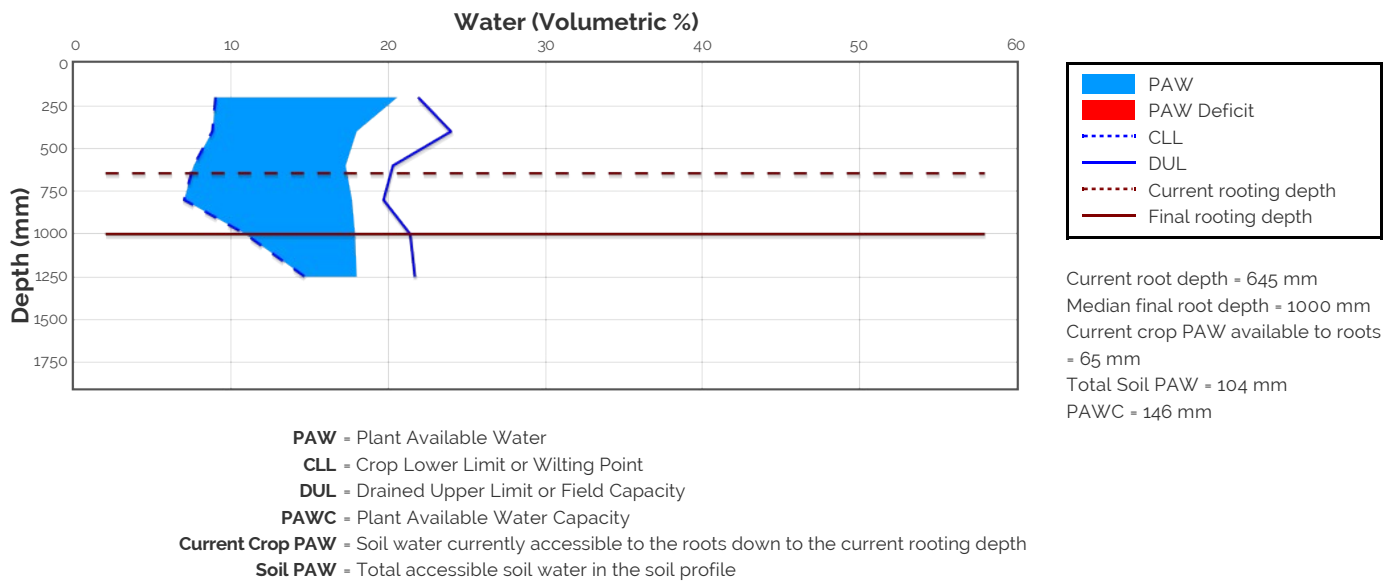
Simulated and Predicted Crop Growth Stage



Probability and Incidence of Frost and Heat Shock

Frost damage during flowering				Heat damage during grain fill			
Severity	Probability	This Season		Severity	Probability	This Season	
mild 2 to 0°C during flowering	<div><div></div></div>	59%	0	mild 32 to 34°C	<div><div></div></div>	49%	0
moderate 0 to -2°C during flowering & early grain fill	<div><div></div></div>	13%	0	moderate 34 to 36°C	<div><div></div></div>	21%	0
severe Less than -2°C during flowering & grain fill		0%	0	severe Above 36°C	<div><div></div></div>	6%	0

Current Distribution of PAW

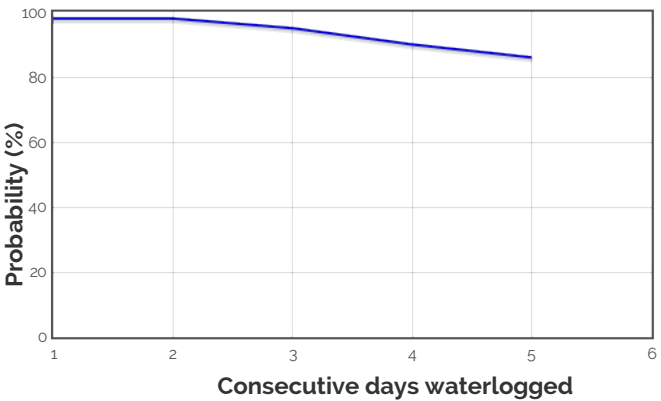


Water Budget

Initial PAW status @ 24-May
Rainfall since 24-May
Irrigations
Evaporation since 24-May
Transpiration since 24-May
Deep drainage since 24-May
Run-off since 24-May

108 mm
133.2 mm
74 mm
10 mm
4 mm
8 mm
104 mm

Probability of Future Waterlogging Events



Nitrogen Budget

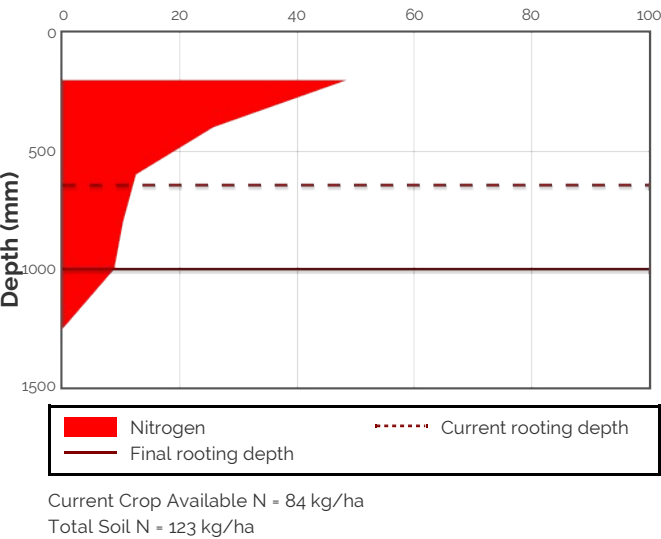
Initial N status @ 24-May
N mineralisation since 24-May
N tie up since 24-May
N applications

153 kg/ha
1 kg/ha
9 kg/ha
25-May : 19.6 kg/ha
48 kg/ha
1 kg/ha
1 kg/ha
123 kg/ha

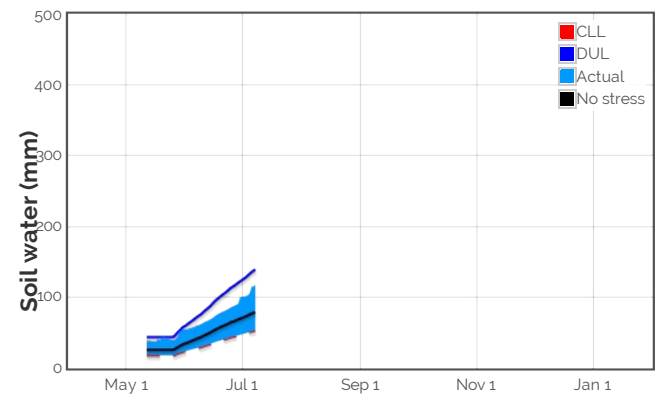
Total N in plant
De-nitrification since 24-May
Leaching

Current N status:
Median N mineralisation to maturity = 0.074 kg/ha
Median N tie up to maturity = 5.855 kg/ha

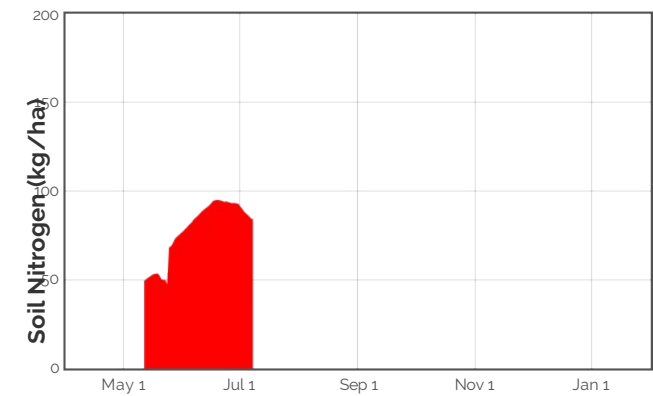
Current distribution of soil nitrogen (kg/ha)



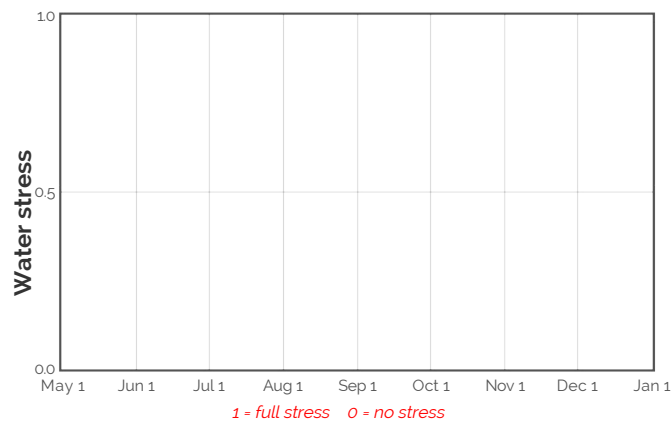
Availability of Water to Growing Roots



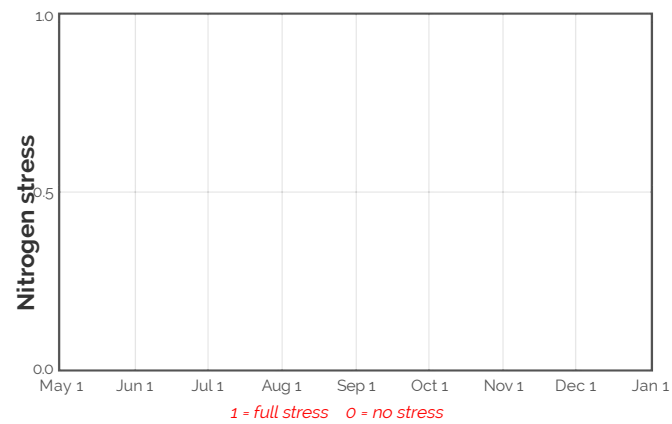
Availability of Soil Nitrogen to Growing Roots



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)
10-Jul	15.6	0.6	0.4	2.2	39.3	66.2	80.9	0.0	0.1
11-Jul	15.7	0.5	0.3	2.2	39.2	66.5	79.8	0.0	0.1
12-Jul	15.8	0.5	0.4	2.2	39.1	66.9	78.8	0.0	0.1
13-Jul	15.9	0.5	0.4	2.3	39.0	67.0	76.9	0.0	0.1
14-Jul	16.0	0.5	0.4	2.5	38.9	67.3	76.0	0.0	0.1
15-Jul	16.0	0.5	0.4	2.5	38.7	67.4	74.8	0.0	0.1
16-Jul	16.0	0.6	0.5	2.5	38.4	67.7	72.3	0.0	0.1
17-Jul	16.0	0.6	0.5	3.1	38.3	67.8	70.5	0.0	0.1
18-Jul	16.0	0.6	0.5	2.6	37.6	67.8	68.9	0.0	0.0
19-Jul	16.0	0.5	0.5	2.8	37.3	67.7	66.9	0.0	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

