

# Crop Report

5-Jun-2024

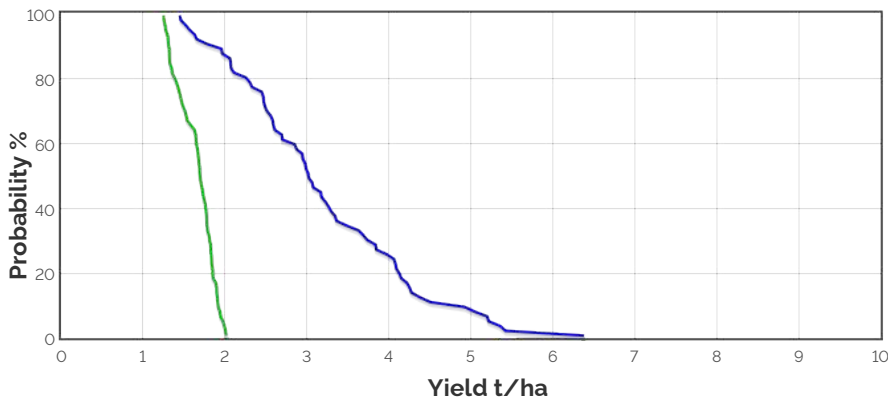
Andrew H Ware: Cleve

**Crop: Wheat**  
**Cultivar: Calibre**  
 Sowing details: 150 plants/m<sup>2</sup> on 1-Jun  
 Expected maturity date: 26-Nov

**Paddock Details**  
 Initial conditions date: 22-Feb  
 Soil: Sandy clay loam (Tuckey No347)  
 1000 mm max rooting depth  
 Stubble: 1000 kg/ha of Canola  
 No till

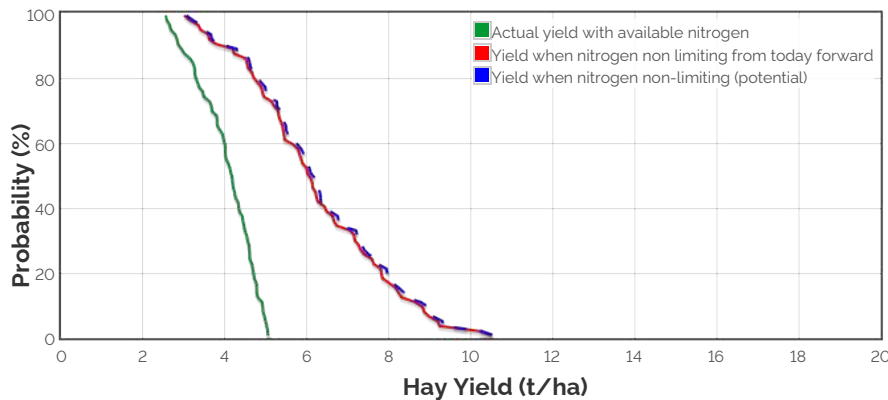
## Grain Yield Outcome

- Nitrogen limited Yield
- Water limited Yield
- Nitrogen limited Yield with Frost and heat Effects
- Water limited Yield with Frost and heat Effects



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.

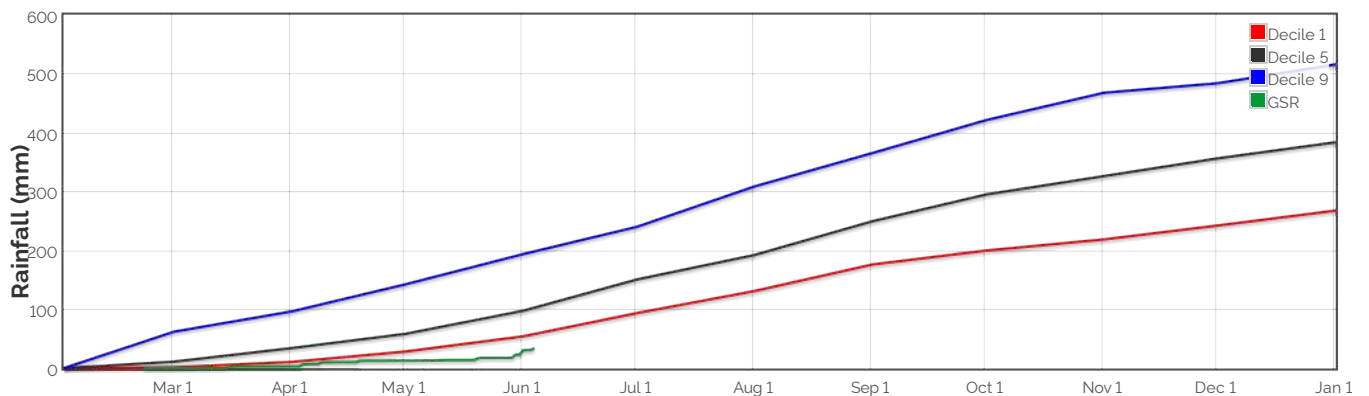
## Hay Yield Outcome



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: 0kg/ha

## The Season So Far - Growing Season Rainfall Deciles



# Simulated and Predicted Crop Growth Stage



## Predicted

Earliest	15-Jun	21-Jun	28-Jun	9-Jul	20-Jul	31-Jul
Median	20-Jun	27-Jun	7-Jul	17-Jul	27-Jul	6-Aug
Latest	23-Jun	2-Jul	14-Jul	25-Jul	3-Aug	15-Aug



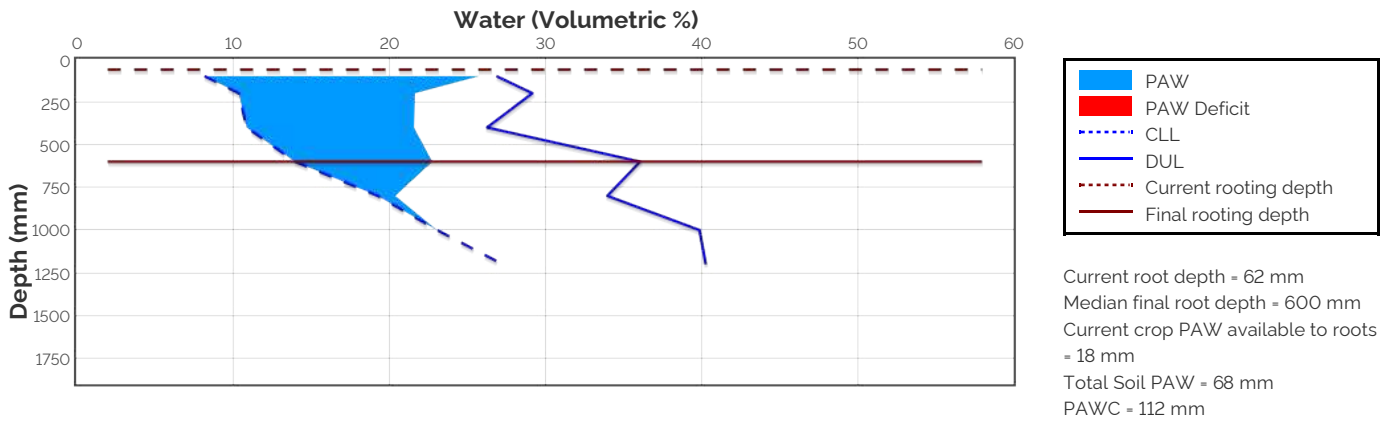
## Predicted

Earliest	5-Aug	9-Aug	16-Aug	20-Aug	21-Aug	29-Aug	9-Sep	14-Sep	2-Oct
Median	13-Aug	18-Aug	25-Aug	1-Sep	1-Sep	9-Sep	19-Sep	25-Sep	12-Oct
Latest	21-Aug	29-Aug	3-Sep	10-Sep	11-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	1%	0		mild 32 to 34°C	54%	0	
moderate 0 to -2°C during flowering & early grain fill	0%	0		moderate 34 to 36°C	27%	0	
severe Less than -2°C during flowering & grain fill	0%	0		severe Above 36°C	20%	0	

## Current Distribution of PAW



## Water Budget

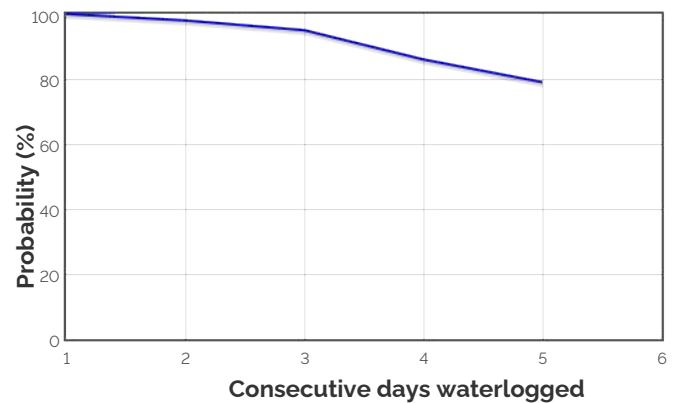
Initial PAW status @ 22-Feb  
 Rainfall since 22-Feb  
 Irrigations  
 Evaporation since 22-Feb  
 Transpiration since 22-Feb  
 Deep drainage since 22-Feb  
 Run-off since 22-Feb

72 mm  
 34.3 mm  
 37 mm  
 0 mm  
 0 mm  
 0 mm

**Current PAW status:**

**68 mm**

## Probability of Future Waterlogging Events



## Nitrogen Budget

Initial N status @ 22-Feb  
 N mineralisation since 22-Feb  
 N tie up since 22-Feb  
 N applications

33 kg/ha  
 33 kg/ha  
 0 kg/ha

Total N in plant  
 De-nitrification since 22-Feb  
 Leaching since 22-Feb

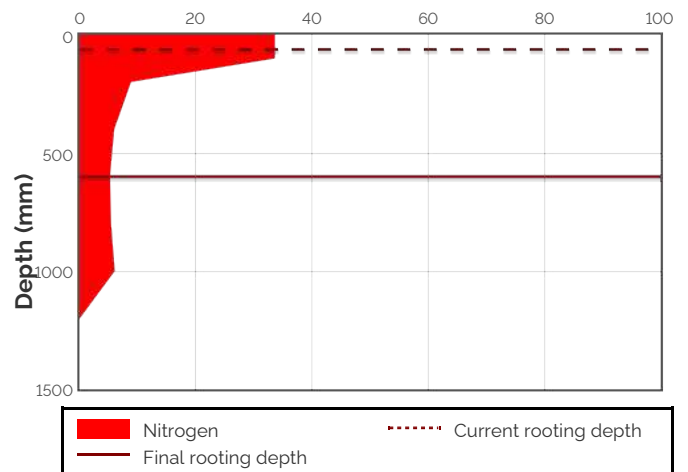
1-Mar : 20 kg/ha  
 0 kg/ha  
 0 kg/ha  
 0 kg/ha

**Current N status:**

**72 kg/ha**

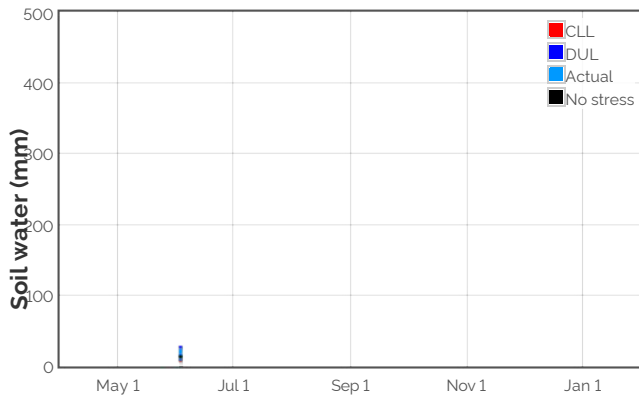
Median N mineralisation to maturity = 33.0432515415951 kg/ha  
 Median N tie up to maturity = 0 kg/ha

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

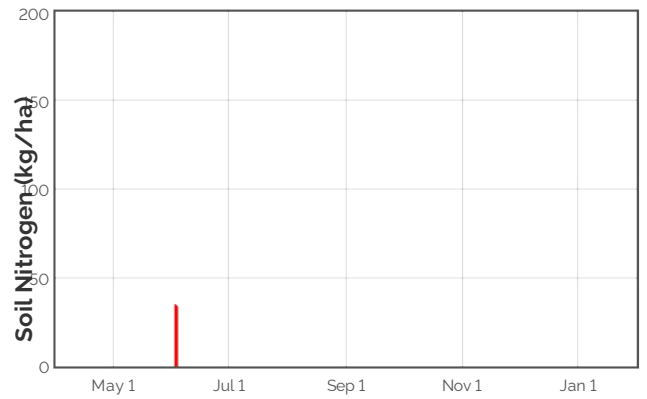


Current Crop Available N = 34 kg/ha  
 Total Soil N = 72 kg/ha

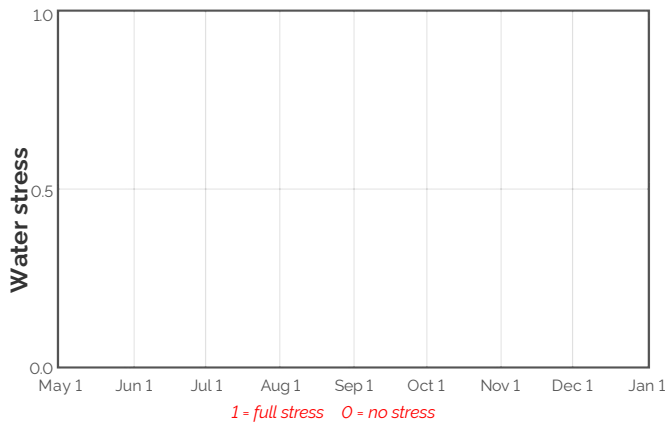
### Availability of Water to Growing Roots



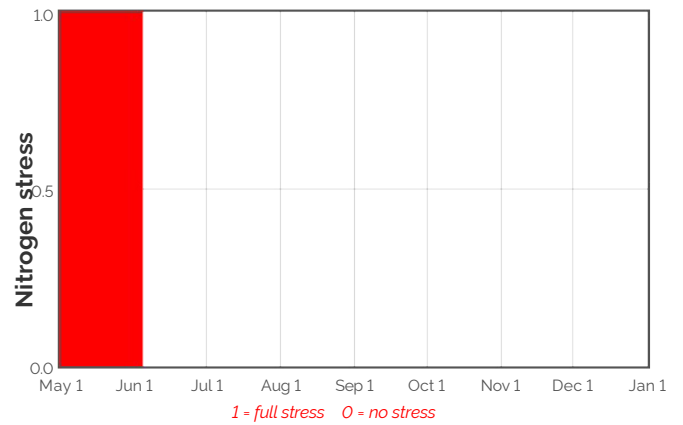
### Availability of Soil Nitrogen to Growing Roots



### 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)
22-Feb	9.0	0.5	0.0	0.0	12	68	4.2	0.4	0.0
23-Feb	9.0	0.5	0.0	0.0	13	69	4.0	0.4	0.0
24-Feb	9.0	0.5	0.0	0.0	14	7.0	3.9	0.4	0.0
25-Feb	9.0	0.5	0.0	0.0	14	7.0	3.9	0.4	0.0
26-Feb	9.0	0.4	0.0	0.0	14	7.0	4.0	0.4	0.0
27-Feb	9.0	0.4	0.0	0.0	14	7.0	4.2	0.4	0.0
28-Feb	9.0	0.4	0.0	0.0	14	7.0	4.3	0.4	0.0
29-Feb	9.0	0.4	0.0	0.0	13	6.9	4.4	0.4	0.0
1-Mar	9.0	0.4	0.0	0.0	13	6.9	24.6	0.4	0.0
2-Mar	9.0	0.4	0.0	0.0	12	6.9	24.7	0.4	0.0
3-Mar	9.0	0.4	0.0	0.0	12	6.8	24.9	0.4	0.0
4-Mar	9.0	0.4	0.0	0.0	11	6.7	25.0	0.4	0.0
5-Mar	9.0	0.4	0.0	0.0	11	6.7	25.2	0.4	0.0
6-Mar	9.0	0.4	0.0	0.0	10	6.6	25.4	0.4	0.0
7-Mar	9.0	0.3	0.0	0.0	9.9	6.6	25.6	0.4	0.0
8-Mar	9.0	0.3	0.0	0.0	9.9	6.5	25.8	0.4	0.0
9-Mar	9.0	0.3	0.0	0.0	9.8	6.4	26.0	0.4	0.0
10-Mar	9.0	0.3	0.0	0.0	9.7	6.4	26.2	0.4	0.0
11-Mar	9.0	0.3	0.0	0.0	9.7	6.3	26.4	0.4	0.0
12-Mar	9.0	0.3	0.0	0.0	9.6	6.2	26.7	0.4	0.0
13-Mar	9.0	0.3	0.0	0.0	9.5	6.1	26.9	0.4	0.0
14-Mar	9.0	1.3	0.0	0.0	9.5	6.1	27.2	0.4	0.0
15-Mar	9.0	1.7	0.0	0.0	9.4	6.0	27.4	0.4	0.0
16-Mar	9.0	0.5	0.0	0.0	9.4	6.0	27.6	0.4	0.0
17-Mar	9.0	0.7	0.0	0.0	9.3	5.9	27.8	0.4	0.0
18-Mar	9.0	0.3	0.0	0.0	9.2	5.8	28.0	0.4	0.0
19-Mar	9.0	0.3	0.0	0.0	9.1	5.8	28.2	0.4	0.0
20-Mar	9.0	0.3	0.0	0.0	9.1	5.7	28.3	0.3	0.0
21-Mar	9.0	0.3	0.0	0.0	9.0	5.6	28.5	0.3	0.0
22-Mar	9.0	0.3	0.0	0.0	8.9	5.5	28.6	0.3	0.0
23-Mar	9.0	0.3	0.0	0.0	8.8	5.5	28.8	0.3	0.0

24-Mar	9.0	0.3	0.0	0.0	-0.2	5.4	289	0.3	0.0
25-Mar	9.0	0.3	0.0	0.0	-0.3	5.3	29.0	0.3	0.0
26-Mar	9.0	0.3	0.0	0.0	-0.4	5.2	29.2	0.3	0.0
27-Mar	9.0	0.3	0.0	0.0	-0.4	5.2	29.3	0.3	0.0
28-Mar	9.0	0.3	0.0	0.0	-0.5	5.1	29.5	0.4	0.0
29-Mar	9.0	0.3	0.0	0.0	-0.6	5.0	29.7	0.4	0.0
30-Mar	9.0	0.3	0.0	0.0	-0.6	5.0	29.9	0.4	0.0
31-Mar	9.0	0.2	0.0	0.0	-0.7	4.9	30.1	0.4	0.0
1-Apr	9.0	0.0	0.0	0.0	-0.5	5.1	30.2	0.3	0.0
2-Apr	9.0	0.1	0.0	0.0	-0.5	5.1	30.3	0.3	0.0
3-Apr	9.0	0.1	0.0	0.0	2.9	8.6	30.4	0.3	0.0
4-Apr	9.0	0.2	0.0	0.0	3.4	9.0	30.6	0.3	0.0
5-Apr	9.0	0.2	0.0	0.0	3.4	9.0	30.7	0.3	0.0
6-Apr	9.0	0.1	0.0	0.0	3.3	8.9	30.8	0.3	0.0
7-Apr	9.0	0.1	0.0	0.0	3.3	8.9	30.9	0.3	0.0
8-Apr	9.0	2.1	0.0	0.0	4.2	9.8	31.0	0.3	0.0
9-Apr	9.0	0.1	0.0	0.0	4.2	9.8	31.1	0.3	0.0
10-Apr	9.0	0.1	0.0	0.0	4.1	9.7	31.3	0.3	0.0
11-Apr	9.0	0.1	0.0	0.0	4.0	9.6	31.4	0.3	0.0
12-Apr	9.0	0.1	0.0	0.0	4.0	9.6	31.5	0.3	0.0
13-Apr	9.0	0.1	0.0	0.0	3.9	9.5	31.6	0.3	0.0
14-Apr	9.0	0.1	0.0	0.0	3.9	9.5	31.7	0.3	0.0
15-Apr	9.0	0.1	0.0	0.0	3.8	9.4	31.9	0.3	0.0
16-Apr	9.0	0.1	0.0	0.0	3.8	9.4	32.0	0.3	0.0
17-Apr	9.0	0.1	0.0	0.0	3.7	9.3	32.1	0.3	0.0
18-Apr	9.0	2.0	0.0	0.0	4.1	9.7	32.2	0.3	0.0
19-Apr	9.0	0.2	0.0	0.0	4.0	9.6	32.3	0.3	0.0
20-Apr	9.0	0.3	0.0	0.0	4.0	9.6	32.5	0.3	0.0
21-Apr	9.0	0.1	0.0	0.0	3.9	9.5	32.6	0.3	0.0
22-Apr	9.0	0.1	0.0	0.0	3.9	9.5	32.8	0.3	0.0
23-Apr	9.0	0.1	0.0	0.0	3.8	9.4	32.9	0.3	0.0
24-Apr	9.0	0.1	0.0	0.0	3.8	9.4	33.0	0.3	0.0
25-Apr	9.0	0.3	0.0	0.0	3.7	9.3	33.2	0.3	0.0
26-Apr	9.0	0.1	0.0	0.0	3.7	9.3	33.3	0.3	0.0
27-Apr	9.0	0.1	0.0	0.0	3.6	9.2	33.4	0.3	0.0
28-Apr	9.0	0.1	0.0	0.0	3.6	9.2	33.5	0.2	0.0
29-Apr	9.0	0.2	0.0	0.0	3.6	9.2	33.6	0.3	0.0
30-Apr	9.0	0.1	0.0	0.0	3.5	9.1	33.7	0.3	0.0
1-May	9.0	0.1	0.0	0.0	3.5	9.1	33.8	0.2	0.0
2-May	9.0	0.1	0.0	0.0	3.5	9.1	33.9	0.2	0.0
3-May	9.0	0.3	0.0	0.0	3.4	9.0	34.0	0.3	0.0
4-May	9.0	0.1	0.0	0.0	3.4	9.0	34.1	0.3	0.0
5-May	9.0	0.1	0.0	0.0	3.4	9.0	34.2	0.3	0.0
6-May	9.0	0.3	0.0	0.0	3.3	8.9	34.4	0.3	0.0
7-May	9.0	0.1	0.0	0.0	3.3	8.9	34.5	0.3	0.0
8-May	9.0	0.1	0.0	0.0	3.3	8.9	34.6	0.3	0.0
9-May	9.0	0.3	0.0	0.0	3.2	8.8	34.7	0.3	0.0
10-May	9.0	0.1	0.0	0.0	3.2	8.8	34.8	0.3	0.0
11-May	9.0	0.4	0.0	0.0	3.2	8.8	35.0	0.3	0.0
12-May	9.0	0.1	0.0	0.0	3.2	8.8	35.1	0.3	0.0
13-May	9.0	0.1	0.0	0.0	3.1	8.7	35.2	0.3	0.0
14-May	9.0	0.1	0.0	0.0	3.1	8.7	35.3	0.3	0.0
15-May	9.0	0.1	0.0	0.0	3.1	8.7	35.5	0.3	0.0
16-May	9.0	0.1	0.0	0.0	3.0	8.7	35.6	0.3	0.0
17-May	9.0	0.1	0.0	0.0	3.0	8.6	35.7	0.3	0.0
18-May	9.0	0.1	0.0	0.0	3.0	8.6	35.9	0.3	0.0
19-May	9.0	1.5	0.0	0.0	4.4	10.0	36.0	0.3	0.0
20-May	9.0	1.5	0.0	0.0	4.1	9.7	36.1	0.2	0.0
21-May	9.0	0.3	0.0	0.0	3.8	9.4	36.1	0.2	0.0
22-May	9.0	0.1	0.0	0.0	3.8	9.4	36.2	0.2	0.0
23-May	9.0	0.1	0.0	0.0	3.7	9.3	36.3	0.2	0.0
24-May	9.0	0.1	0.0	0.0	3.7	9.3	36.4	0.2	0.0
25-May	9.0	0.1	0.0	0.0	3.6	9.2	36.5	0.3	0.0
26-May	9.0	0.1	0.0	0.0	3.6	9.2	36.7	0.3	0.0
27-May	9.0	0.1	0.0	0.0	3.5	9.2	36.8	0.3	0.0
28-May	9.0	0.1	0.0	0.0	3.5	9.1	37.0	0.3	0.0
29-May	9.0	1.9	0.0	0.0	6.6	12.2	36.9	0.2	0.0
30-May	9.0	0.3	0.0	0.0	6.3	11.9	36.8	0.2	0.0
31-May	9.0	1.8	0.0	0.0	11.4	17.0	35.5	0.2	0.0
1-Jun	9.0	0.6	0.0	0.0	10.6	16.2	34.9	0.2	0.0
2-Jun	9.0	0.2	0.0	0.0	10.2	15.8	34.4	0.2	0.0
3-Jun	9.0	0.9	0.0	0.0	12.0	17.6	33.4	0.2	0.0
4-Jun	9.0	1.3	0.0	0.0	11.2	16.8	32.9	0.2	0.0
5-Jun	9.0	1.0	0.0	0.0	10.5	16.1	32.3	0.2	0.0
6-Jun	9.0	0.4	0.0	0.0	10.2	15.8	32.2	0.2	0.0
7-Jun	9.0	0.2	0.0	0.0	9.9	15.4	31.9	0.2	0.0
8-Jun	9.0	0.2	0.0	0.0	9.5	15.2	31.7	0.2	0.0
9-Jun	9.0	0.2	0.0	0.0	9.3	14.9	31.6	0.2	0.0
10-Jun	9.0	0.2	0.0	0.0	9.1	14.8	31.6	0.2	0.0
11-Jun	9.0	0.2	0.0	0.0	9.2	15.1	31.6	0.2	0.0

12-Jun	10.0	0.2	0.0	-0.1	9.9	16.0	31.8	0.2	0.0
13-Jun	10.2	0.2	0.0	-0.1	10.5	17.4	33.1	0.2	0.0
14-Jun	10.3	0.2	0.0	0.0	11.3	19.0	34.7	0.2	0.0
15-Jun	10.5	0.2	0.0	0.0	12.2	21.0	36.3	0.2	0.0
16-Jun	10.7	0.3	0.0	0.0	13.6	24.1	38.7	0.2	0.0
17-Jun	10.8	0.5	0.0	0.0	15.2	26.6	40.2	0.2	0.0
18-Jun	11.0	0.6	0.0	-0.1	16.4	28.3	41.3	0.2	0.0
19-Jun	11.1	0.6	0.0	-0.1	18.3	31.2	41.6	0.2	0.0
20-Jun	11.3	0.8	0.0	-0.1	21.4	34.6	41.9	0.2	0.0
21-Jun	11.4	0.6	0.0	-0.1	22.6	36.7	42.2	0.2	0.0
22-Jun	11.5	0.8	0.0	-0.1	23.8	38.2	42.4	0.2	0.0
23-Jun	11.7	0.7	0.0	-0.1	24.9	40.8	42.7	0.2	0.0
24-Jun	11.8	0.9	0.0	-0.1	26.2	42.8	43.2	0.2	0.0
25-Jun	11.9	0.6	0.0	-0.2	27.2	43.8	43.5	0.2	0.0
26-Jun	12.0	0.6	0.0	-0.2	27.6	45.4	43.7	0.2	0.0
27-Jun	12.1	0.6	0.0	-0.2	29.2	47.2	44.1	0.2	0.0
28-Jun	12.2	0.8	0.0	-0.2	31.2	50.4	44.4	0.2	0.0
29-Jun	12.3	1.1	0.1	-0.2	31.8	52.5	44.7	0.2	0.0
30-Jun	12.4	0.8	0.1	-0.2	33.6	54.2	44.9	0.1	0.0
1-Jul	12.6	1.0	0.1	-0.3	35.2	58.0	45.0	0.2	0.0
2-Jul	12.7	0.8	0.1	-0.3	35.8	58.2	45.1	0.2	0.0
3-Jul	12.8	1.0	0.1	-0.3	36.6	59.9	45.2	0.2	0.0
4-Jul	12.9	0.9	0.1	-0.3	38.8	64.0	45.2	0.2	0.0
5-Jul	13.0	1.1	0.1	-0.4	41.3	65.7	45.3	0.1	0.0
6-Jul	13.1	1.1	0.1	-0.4	41.4	67.5	45.2	0.1	0.0
7-Jul	13.2	1.0	0.1	-0.5	41.8	68.6	45.0	0.1	0.0
8-Jul	13.3	0.9	0.1	-0.5	41.6	69.9	44.9	0.1	0.0
9-Jul	13.4	1.0	0.1	-0.5	41.2	70.6	44.7	0.1	0.0
10-Jul	13.4	0.8	0.1	-0.5	42.6	74.0	44.5	0.1	0.0
11-Jul	13.6	1.0	0.1	-0.6	43.3	75.4	44.2	0.1	0.0
12-Jul	13.6	1.0	0.1	-0.6	43.2	76.2	43.9	0.1	0.0
13-Jul	13.7	0.9	0.2	-0.7	43.8	77.4	43.6	0.1	0.0
14-Jul	13.8	0.9	0.2	-0.7	45.2	78.0	43.0	0.1	0.0
15-Jul	13.9	1.0	0.2	-0.8	46.8	80.1	42.4	0.1	0.0
16-Jul	14.0	1.0	0.2	-1.0	45.8	79.6	41.4	0.1	0.0
17-Jul	14.1	1.0	0.2	-1.0	45.6	79.4	40.4	0.1	0.0
18-Jul	14.2	1.0	0.3	-1.1	48.1	81.9	39.2	0.1	0.0
19-Jul	14.3	1.0	0.3	-1.2	48.1	81.7	38.0	0.1	0.0
20-Jul	14.4	0.9	0.3	-1.4	49.1	82.3	36.8	0.1	0.0
21-Jul	14.5	0.9	0.3	-1.4	48.9	82.6	35.6	0.1	0.0
22-Jul	14.6	0.8	0.4	-1.6	49.4	83.2	34.0	0.1	0.0
23-Jul	14.7	0.9	0.4	-1.7	49.4	83.1	32.2	0.1	0.0
24-Jul	14.8	0.9	0.4	-1.6	48.5	82.3	30.6	0.1	0.0
25-Jul	14.9	0.8	0.4	-1.6	48.4	82.2	29.0	0.1	0.0
26-Jul	15.0	0.8	0.6	-1.6	48.3	82.0	26.8	0.1	0.0
27-Jul	15.2	0.8	0.5	-1.5	47.4	81.2	25.2	0.2	0.0
28-Jul	15.2	0.8	0.6	-1.4	48.6	82.3	23.7	0.1	0.0
29-Jul	15.3	0.8	0.7	-1.3	48.8	82.6	22.4	0.1	0.0
30-Jul	15.4	0.8	0.7	-1.2	48.4	82.2	21.2	0.1	0.0
31-Jul	15.5	0.7	0.8	-1.1	47.9	81.6	20.2	0.1	0.0
1-Aug	15.6	0.7	0.7	-1.0	47.2	81.0	19.3	0.1	0.0
2-Aug	15.7	0.7	0.8	-0.9	47.2	81.0	18.6	0.1	0.0
3-Aug	15.8	0.6	0.9	-0.8	48.0	81.8	17.9	0.1	0.0
4-Aug	16.0	0.7	0.8	-0.8	49.9	83.6	17.4	0.1	0.0
5-Aug	16.0	0.6	0.8	-0.7	52.6	86.4	16.7	0.1	0.0
6-Aug	16.0	0.7	1.0	-0.7	53.0	86.8	16.2	0.1	0.0
7-Aug	16.0	0.7	1.0	-0.6	51.0	84.8	15.6	0.1	0.0
8-Aug	16.0	0.6	1.0	-0.6	50.8	84.6	15.2	0.1	0.0
9-Aug	16.0	0.6	1.0	-0.5	50.4	84.2	14.6	0.1	0.0
10-Aug	16.0	0.6	1.0	-0.5	50.8	84.6	14.2	0.1	0.0
11-Aug	16.0	0.6	1.1	-0.5	52.0	85.7	13.8	0.1	0.0
12-Aug	30.0	0.6	1.1	-0.4	50.0	83.8	13.5	0.1	0.0
13-Aug	30.2	0.6	1.1	-0.4	49.8	83.6	13.2	0.1	0.0
14-Aug	30.4	0.6	1.2	-0.4	50.2	84.0	12.8	0.1	0.0
15-Aug	30.6	0.6	1.2	-0.4	52.7	86.4	12.6	0.1	0.0
16-Aug	30.8	0.6	1.3	-0.4	51.2	85.0	12.2	0.1	0.0
17-Aug	31.0	0.7	1.4	-0.4	50.7	84.4	11.8	0.1	0.0
18-Aug	31.2	0.6	1.4	-0.3	51.2	85.0	11.4	0.1	0.0
19-Aug	31.4	0.6	1.4	-0.3	49.4	83.1	11.2	0.1	0.0
20-Aug	31.6	0.6	1.5	-0.3	47.6	81.4	10.9	0.1	0.0
21-Aug	31.7	0.6	1.4	-0.3	46.2	79.9	10.7	0.1	0.0
22-Aug	31.9	0.6	1.5	-0.3	43.6	77.4	10.5	0.1	0.0
23-Aug	32.0	0.6	1.4	-0.3	41.8	75.6	10.3	0.1	0.0
24-Aug	32.1	0.6	1.6	-0.3	42.6	76.3	10.1	0.1	0.0
25-Aug	32.2	0.6	1.6	-0.2	42.2	75.9	10.0	0.1	0.0
26-Aug	32.3	0.6	1.7	-0.2	41.2	75.0	9.8	0.1	0.0
27-Aug	32.5	0.6	1.7	-0.2	39.0	72.7	9.6	0.2	0.0
28-Aug	32.6	0.6	1.6	-0.2	39.4	73.2	9.5	0.2	0.0
29-Aug	33.5	0.6	1.8	-0.2	39.0	72.8	9.4	0.2	0.0
30-Aug	36.5	0.6	1.6	-0.2	37.8	71.6	9.2	0.2	0.0

31-Aug	39.0	0.6	1.8	-0.2	36.8	70.6	9.1	0.2	0.0
1-Sep	39.0	0.6	1.8	-0.2	38.4	72.2	9.0	0.2	0.0
2-Sep	39.8	0.6	1.7	-0.2	41.0	74.6	8.8	0.2	0.0
3-Sep	40.6	0.6	1.8	-0.2	38.8	72.5	8.7	0.2	0.0
4-Sep	41.6	0.6	1.8	-0.2	38.2	72.0	8.6	0.2	0.0
5-Sep	42.6	0.6	1.8	-0.2	37.2	71.0	8.6	0.2	0.0
6-Sep	43.6	0.6	2.0	-0.2	36.2	69.9	8.4	0.2	0.0
7-Sep	44.5	0.6	1.8	-0.2	35.8	69.4	8.3	0.2	0.0
8-Sep	45.5	0.7	2.0	-0.2	34.8	68.4	8.2	0.2	0.0
9-Sep	46.7	0.7	2.0	-0.2	31.6	65.4	8.1	0.2	0.0
10-Sep	47.8	0.6	1.8	-0.1	28.8	62.6	8.0	0.2	0.0
11-Sep	48.8	0.7	1.9	-0.1	29.0	62.8	8.0	0.2	0.0
12-Sep	49.7	0.7	1.7	-0.1	29.0	62.8	7.8	0.2	0.0
13-Sep	50.8	0.7	2.0	-0.1	28.9	62.6	7.8	0.2	0.0
14-Sep	51.7	0.8	2.2	-0.1	29.0	62.8	7.8	0.2	0.0
15-Sep	52.5	0.7	1.8	-0.1	27.9	61.7	7.7	0.2	0.0
16-Sep	53.3	0.7	2.0	-0.1	25.3	59.0	7.7	0.2	0.0
17-Sep	54.4	0.7	1.9	-0.1	23.0	56.7	7.6	0.2	0.0
18-Sep	55.5	0.7	2.0	-0.1	22.6	56.2	7.6	0.2	0.0
19-Sep	57.4	0.7	1.9	-0.1	20.4	54.2	7.6	0.2	0.0
20-Sep	59.0	0.6	2.2	-0.1	18.6	52.4	7.4	0.2	0.0
21-Sep	60.6	0.5	2.0	-0.1	17.2	51.0	7.4	0.2	0.0
22-Sep	62.3	0.6	1.8	-0.1	17.5	51.2	7.4	0.2	0.0
23-Sep	64.1	0.7	1.7	-0.1	18.9	52.7	7.4	0.2	0.0
24-Sep	65.4	0.6	1.7	-0.1	17.2	50.9	7.3	0.2	0.0
25-Sep	66.1	0.6	1.9	-0.1	17.3	51.0	7.2	0.2	0.0
26-Sep	66.8	0.6	1.8	-0.1	16.0	49.8	7.2	0.2	0.0
27-Sep	67.4	0.7	1.9	-0.1	14.1	47.8	7.2	0.2	0.0
28-Sep	68.2	0.5	1.7	-0.1	12.6	46.3	7.2	0.2	0.0
29-Sep	69.0	0.7	1.8	-0.1	13.8	47.6	7.2	0.2	0.0
30-Sep	69.8	0.6	1.4	-0.1	12.5	46.2	7.2	0.2	0.0
1-Oct	70.4	0.6	1.3	-0.1	11.0	44.8	7.2	0.2	0.0
2-Oct	71.2	0.7	1.5	-0.1	9.2	43.0	7.2	0.2	0.0
3-Oct	71.6	0.7	1.7	-0.1	7.5	41.3	7.2	0.2	0.0
4-Oct	72.0	0.7	1.4	-0.1	7.2	41.0	7.2	0.2	0.0
5-Oct	72.6	0.6	1.2	-0.1	8.8	42.4	7.1	0.2	0.0
6-Oct	73.0	0.6	1.2	-0.1	8.0	41.8	7.1	0.2	0.0
7-Oct	73.5	0.5	1.2	-0.1	6.8	40.6	7.2	0.2	0.0
8-Oct	74.0	0.5	1.2	-0.1	5.4	39.1	7.1	0.2	0.0
9-Oct	74.5	0.7	1.0	-0.1	6.3	40.0	7.1	0.2	0.0
10-Oct	75.0	0.6	0.8	-0.1	5.8	39.6	7.1	0.2	0.0
11-Oct	75.4	0.5	0.9	-0.1	4.9	38.7	7.1	0.2	0.0
12-Oct	75.7	0.5	0.8	-0.1	4.8	38.4	7.1	0.2	0.0
13-Oct	76.2	0.6	0.4	-0.1	5.4	39.2	7.2	0.2	0.0
14-Oct	76.7	0.4	0.5	-0.1	5.4	39.1	7.2	0.2	0.0
15-Oct	77.2	0.5	0.4	-0.1	4.8	38.4	7.1	0.2	0.0
16-Oct	77.6	0.6	0.4	-0.1	3.8	37.5	7.1	0.2	0.0
17-Oct	78.0	0.5	0.3	-0.1	3.0	36.8	7.2	0.2	0.0
18-Oct	78.5	0.5	0.3	-0.1	3.6	37.3	7.2	0.2	0.0
19-Oct	79.0	0.5	0.2	-0.1	3.3	37.0	7.2	0.2	0.0
20-Oct	79.6	0.4	0.3	-0.1	2.9	36.7	7.2	0.2	0.0
21-Oct	80.1	0.4	0.2	-0.1	2.9	36.7	7.2	0.2	0.0
22-Oct	80.6	0.4	0.2	-0.1	2.6	36.4	7.2	0.2	0.0
23-Oct	81.0	0.4	0.1	-0.1	2.7	36.4	7.3	0.2	0.0
24-Oct	81.6	0.4	0.1	-0.1	2.2	35.9	7.3	0.2	0.0
25-Oct	82.0	0.5	0.1	-0.1	1.8	35.5	7.3	0.2	0.0
26-Oct	82.5	0.4	0.1	-0.1	1.4	35.1	7.4	0.3	0.0
27-Oct	83.0	0.4	0.1	-0.1	0.9	34.7	7.4	0.3	0.0
28-Oct	83.4	0.4	0.1	0.0	0.4	34.2	7.4	0.3	0.0
29-Oct	83.8	0.3	0.1	0.0	0.3	34.0	7.4	0.3	0.0
30-Oct	84.4	0.4	0.1	0.0	0.2	33.9	7.5	0.2	0.0
31-Oct	84.8	0.4	0.1	0.0	-0.1	33.6	7.6	0.3	0.0
1-Nov	85.2	0.4	0.1	0.0	-0.4	33.3	7.6	0.3	0.0
2-Nov	85.8	2.5	0.1	0.0	-2.8	31.0	7.6	0.2	0.0
3-Nov	86.2	1.6	0.0	0.0	-3.4	30.4	7.6	0.2	0.0
4-Nov	86.6	1.1	0.1	0.0	-2.7	31.0	7.7	0.2	0.0
5-Nov	87.5	1.0	0.0	0.0	-3.0	30.8	7.8	0.2	0.0
6-Nov	88.8	0.9	0.1	0.0	-3.2	30.5	7.8	0.2	0.0
7-Nov	89.8	0.8	0.1	0.0	-3.4	30.4	7.8	0.2	0.0
8-Nov	90.0	0.7	0.0	0.0	-3.4	30.4	7.8	0.2	0.0
9-Nov	90.0	0.7	0.0	0.0	-3.5	30.2	7.8	0.2	0.0
10-Nov	90.0	0.6	0.1	0.0	-2.2	31.6	7.9	0.2	0.0
11-Nov	90.0	0.6	0.1	0.0	-1.6	32.2	8.0	0.2	0.0
12-Nov	90.0	0.6	0.1	0.0	-1.8	32.0	8.1	0.2	0.0
13-Nov	90.0	0.6	0.0	0.0	-2.0	31.8	8.1	0.2	0.0
14-Nov	90.0	0.6	0.0	0.0	-2.6	31.0	8.2	0.2	0.0
15-Nov	90.0	0.5	0.0	0.0	-2.8	31.0	8.3	0.2	0.0
16-Nov	90.0	0.5	0.0	0.0	-3.0	30.6	8.4	0.2	0.0
17-Nov	90.0	0.5	0.0	0.0	-1.9	31.9	8.2	0.2	0.0
18-Nov	90.0	0.5	0.0	0.0	-3.3	30.4	8.2	0.2	0.0

19-Nov	90.0	0.6	0.0	0.0	-4.0	29.8	8.2	0.2	0.0
20-Nov	90.0	0.5	0.0	0.0	-4.6	29.2	8.3	0.2	0.0
21-Nov	90.0	0.4	0.0	0.0	-4.4	29.4	8.1	0.2	0.0
22-Nov	90.0	0.5	0.0	0.0	-3.3	30.4	8.0	0.2	0.0
23-Nov	90.0	0.6	0.0	0.0	-4.0	29.7	7.9	0.2	0.0
24-Nov	90.0	0.6	0.1	0.0	-3.5	30.3	7.9	0.2	0.0
25-Nov	90.0	0.5	0.1	0.0	-2.4	31.4	7.9	0.2	0.0
26-Nov	90.0	0.6	0.0	0.0	1.0	34.7	7.9	0.2	0.0
27-Nov	90.0	0.4	0.0	0.0	1.2	34.9	8.0	0.2	0.0
28-Nov	90.0	0.4	0.1	0.0	1.7	35.5	8.0	0.2	0.0
29-Nov	90.0	0.3	0.0	0.0	0.4	34.2	7.9	0.2	0.0
30-Nov	90.0	0.3	0.0	0.0	-2.7	31.0	7.8	0.2	0.0
1-Dec	90.0	0.1	0.0	0.0	-4.0	29.8	7.6	0.1	0.0
2-Dec	90.0	0.1	0.1	0.0	2.4	36.2	7.4	0.1	0.0
3-Dec	90.0	1.3	0.0	0.0	-3.5	30.2	7.7	0.2	0.0
4-Dec	90.0	0.7	0.0	0.0	1.3	35.0	7.7	0.2	0.0
5-Dec	90.0	1.4	0.0	0.0	7.8	41.5	7.8	0.2	0.0
6-Dec	90.0	3.7	0.0	0.0	4.1	37.8	7.8	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

