



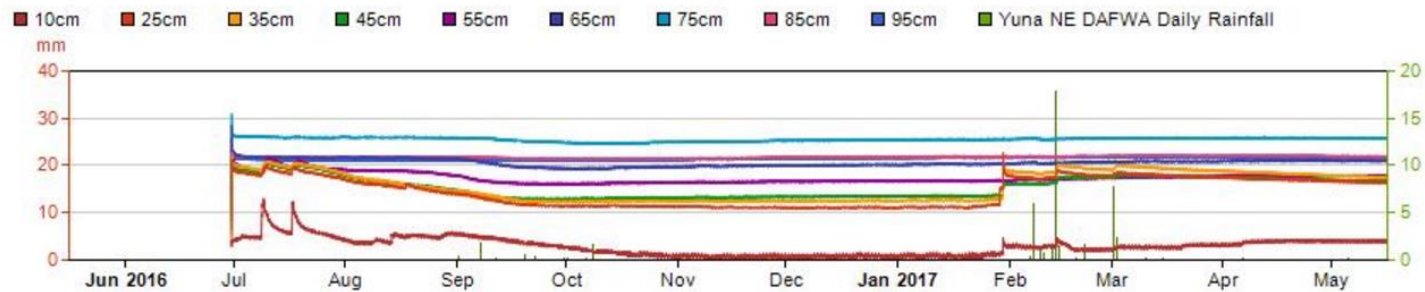
DAFWA eConnected Project Update – May 2017

Soil Moisture Probe

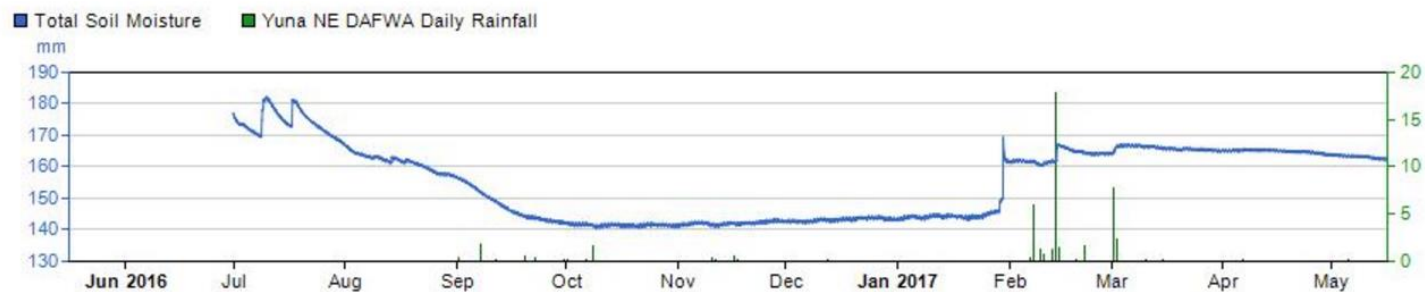
The soil moisture probe was installed in July last year and everyone can access the data at http://tiny.cc/grdc_probes or via the YFIG website.

It shows that the Crop Lower Limit was achieved in late September last year. Rainfall in February has recharged the profile somewhat - primarily the 25-45cm layers. There has been little recharge in the depths below this, and the soil surface has dried from evaporation.

EConnect: Yuna FIG - Soil moisture by depth



EConnect: Yuna FIG Total Soil Moisture



Manual Observation

The moisture levels indicated by the moisture probe match Jason Batten's observations when digging at the site:

- 0-10cm - Dry
- 10-50cm - Quite wet
- 50-70cm - Much drier, but still damp
- >70cm - Hit clay/rock

Soil Water App

Conversely to the moisture probe and paddock observations the Soil Water App is suggesting there is 0mm of plant available water (see following page). This is clearly not the case given Jason's observations and suggests the App is overestimating the evaporative potential to dry the soil profile below 10cm. That is not to say that the App is of no benefit – it may more accurately model water dynamics in season.



eConnect - "Batten"

Climate data (BoM): YUNA

SOIL TYPE



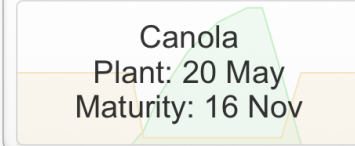
Sandy duplex
(70mm)

START/END



01 Jan (0%)
to 15 Jan

FALLOW/CROP



Canola
Plant: 20 May
Maturity: 16 Nov

Add Local rain

Add Irrigation

Add SW input

Water balance (mm) 01/01/2017 - 14/05/2017

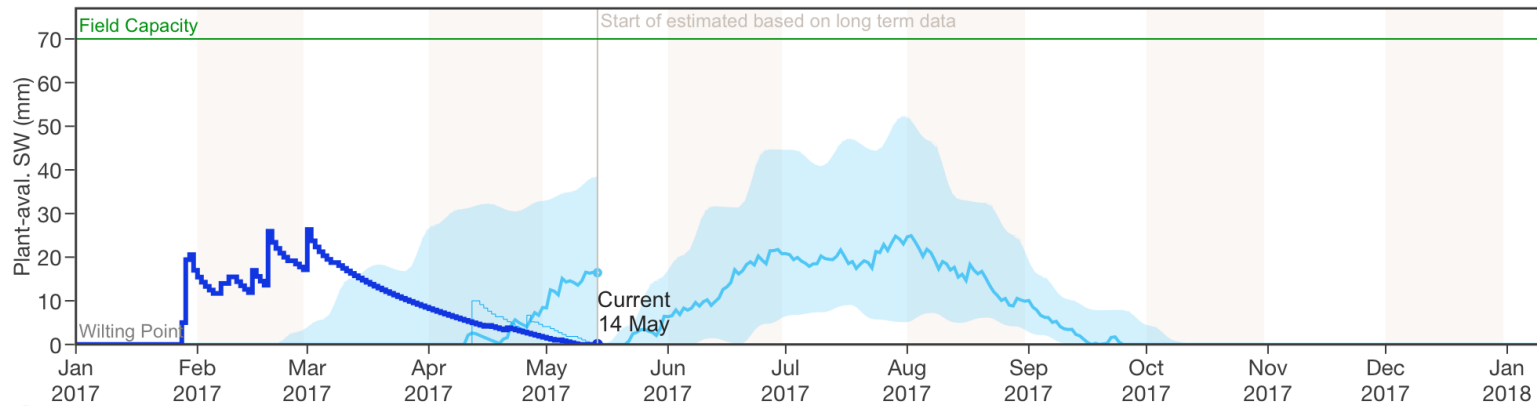
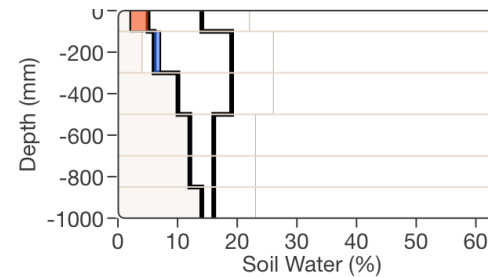
Rainfall	86
Irrigation	0
Evap./Trans.	87/0
Runoff/drainage	0/0
Fallow efficiency	-1%

Tap table to toggle outputs

-1%

-1mm
14/05/2017

Tap to toggle output



Heavy dark blue: [this season] heavy light blue: [average] thin blue: [last year] Plume: [60% yrs]