

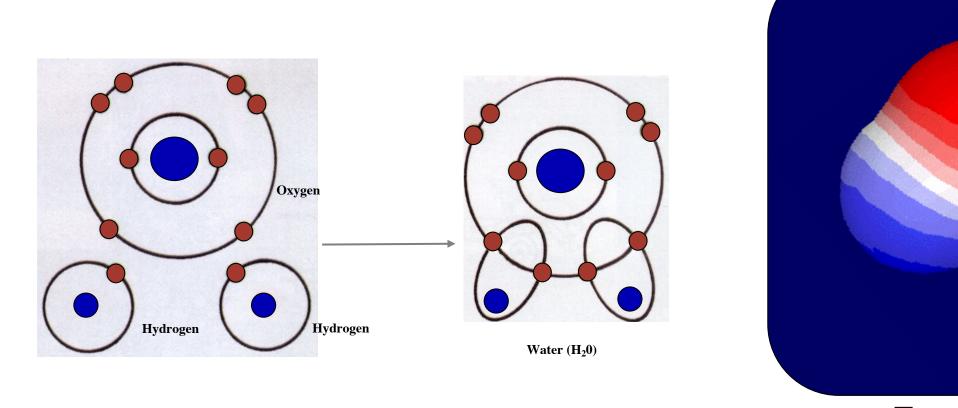
## Lessons from Australian Drought David McGavin & Greg Butler



A) In season drought

**B)** Drought on drought

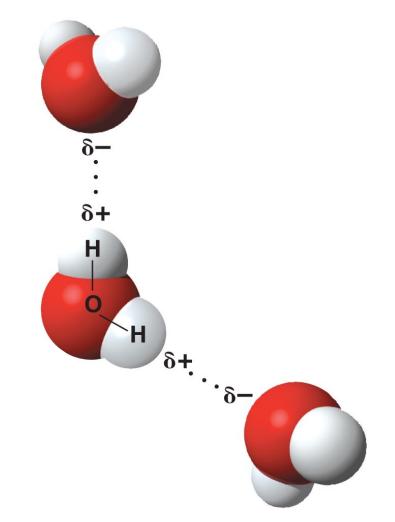




#### Negative polarity

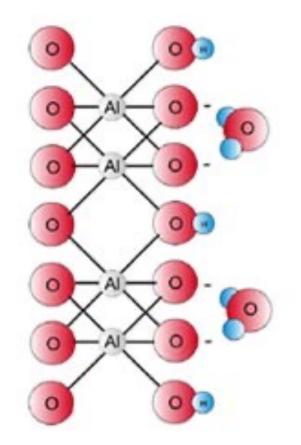
**Positive polarity** 







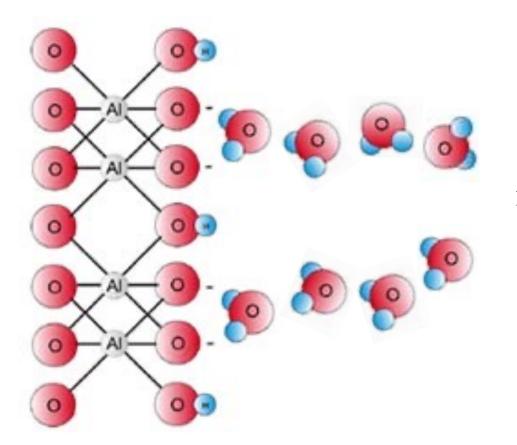
#### **Soil Surface**



Plant unavailable water



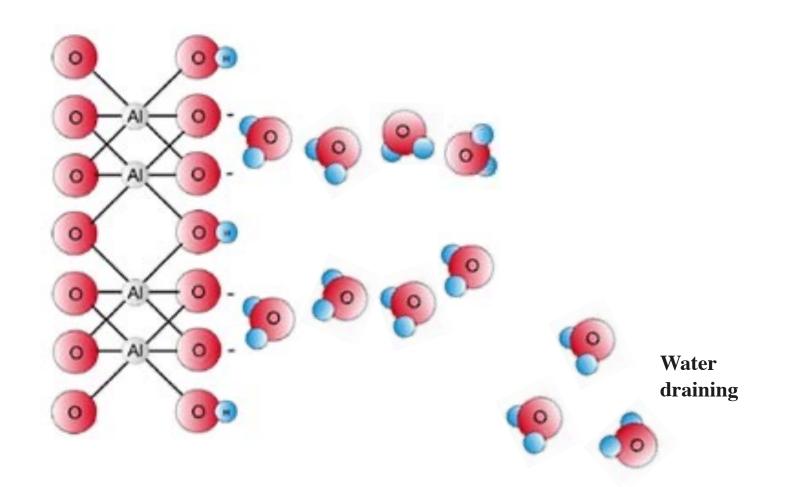
#### **Soil Surface**



**Plant Available Water** 

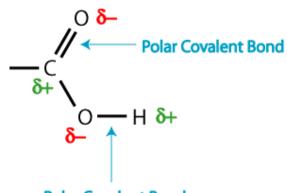


#### **Soil Surface**

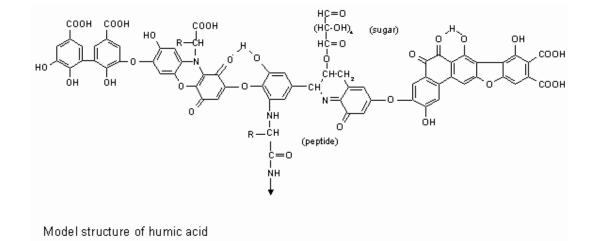




#### Carboxyl group

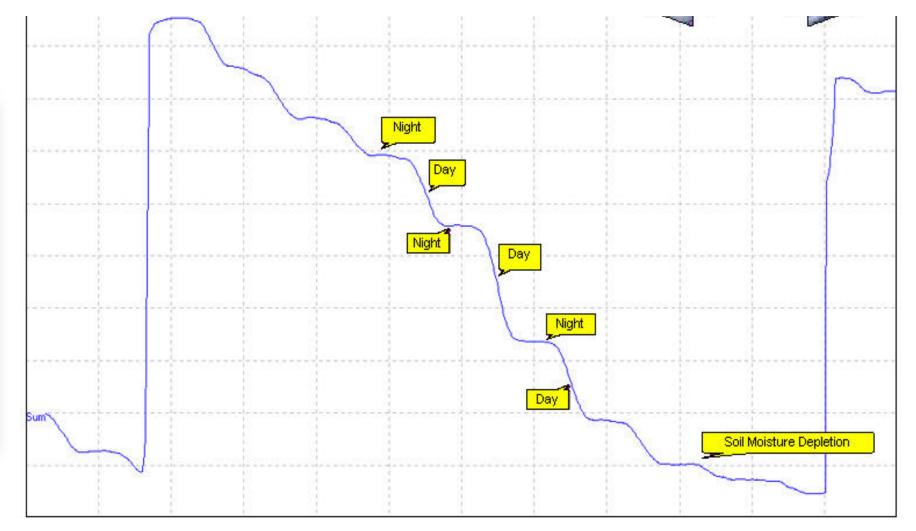


Polar Covalent Bond

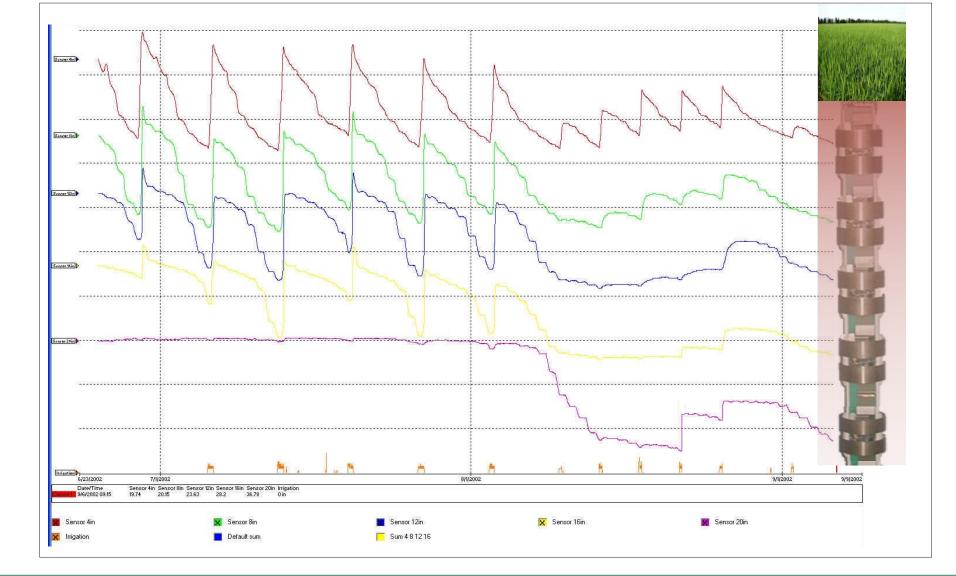






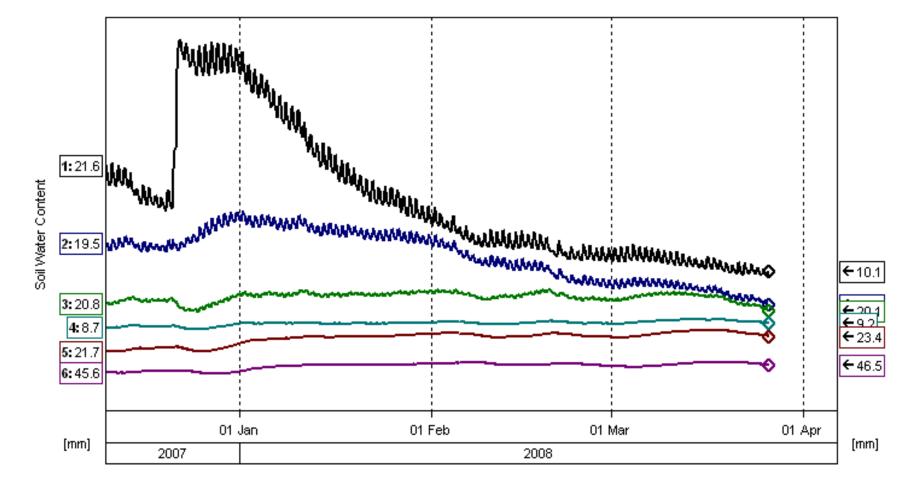








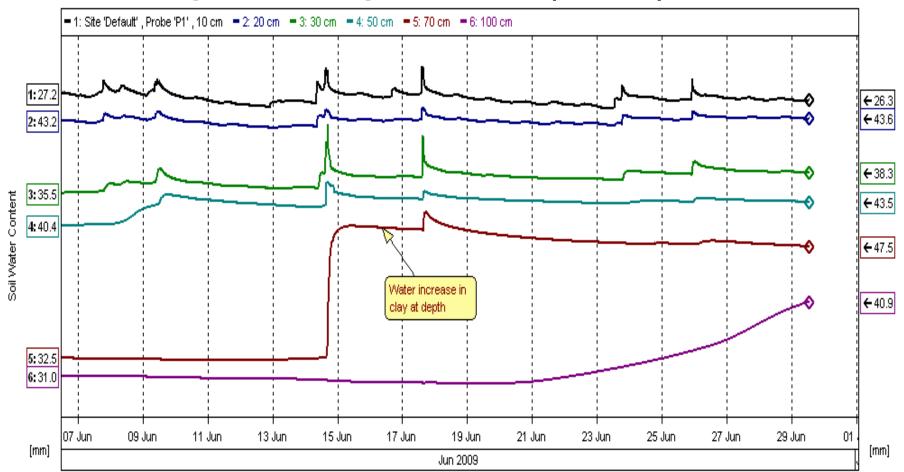
### Loss of moisture from shallow summer rainfall



Generated by IrriMAX® Sentek Pty Ltd

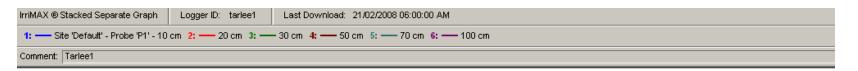


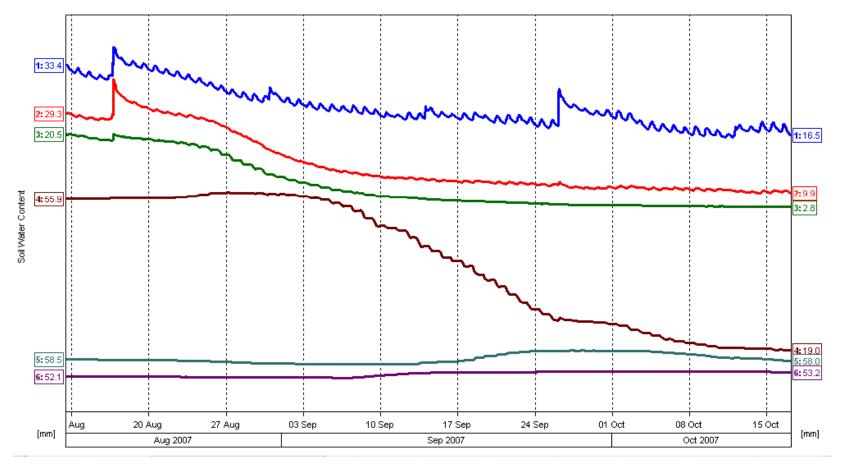
### **Deep moisture penetration (Winter)**



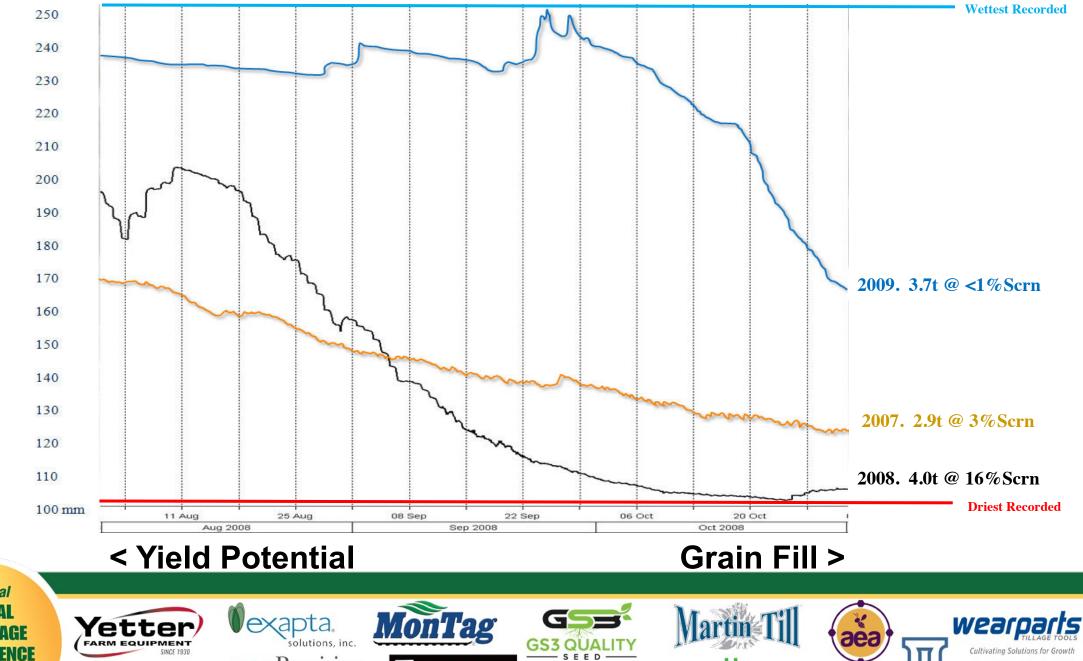
Generated by IrriMAX<sup>™</sup> Sentek Pty Ltd











Sound 😽





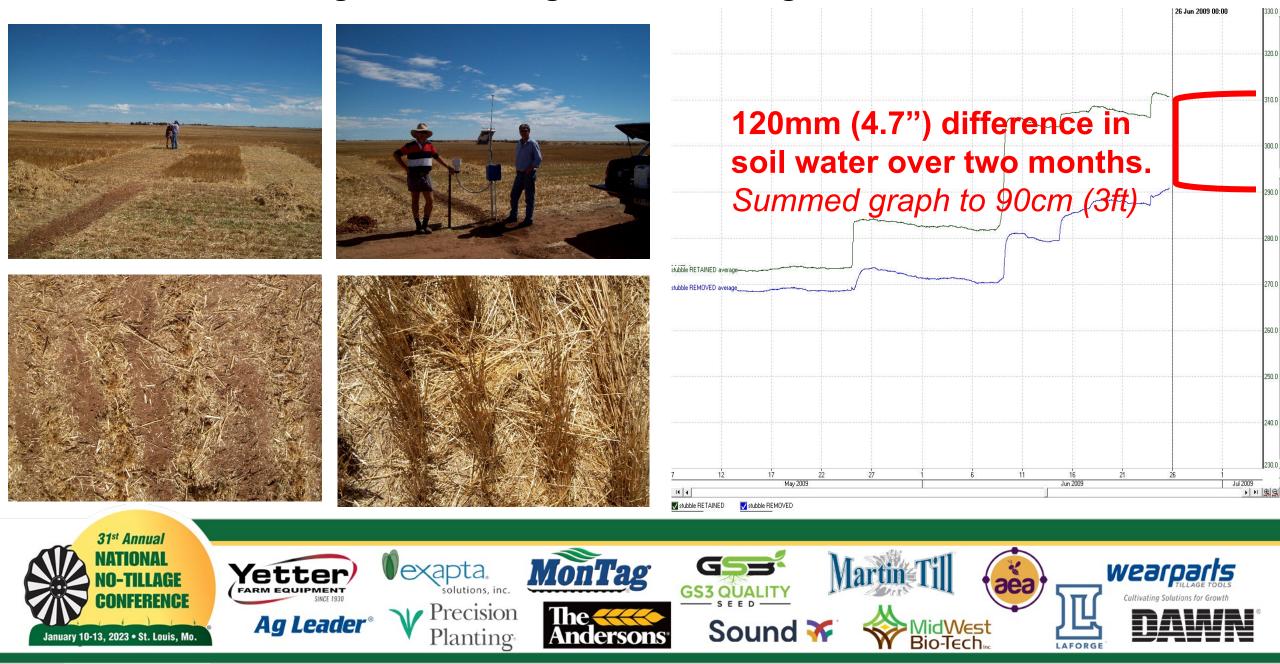


### groundcover, groundcover & groundcover

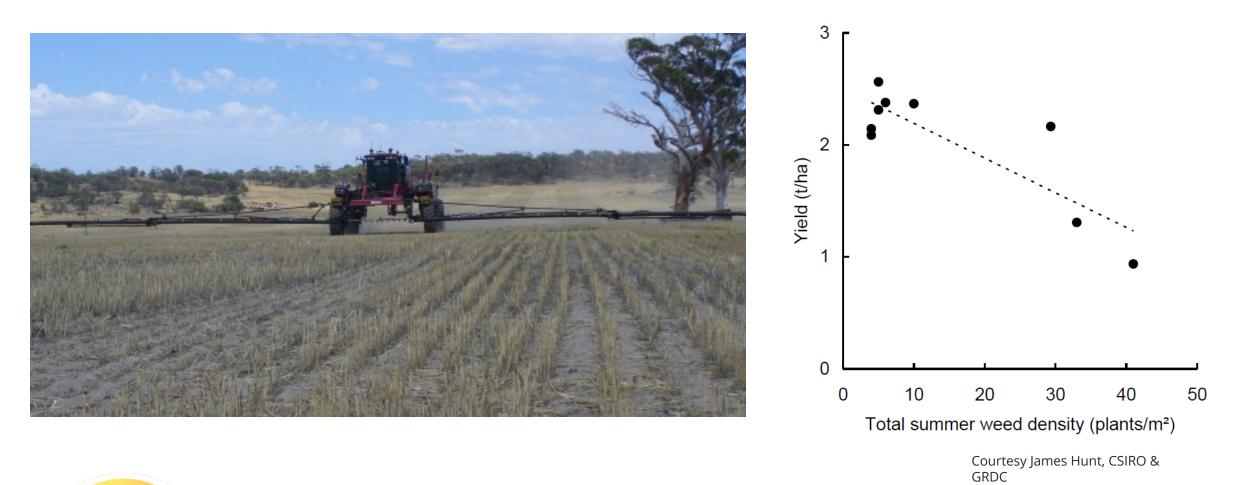




#### groundcover, groundcover & groundcover

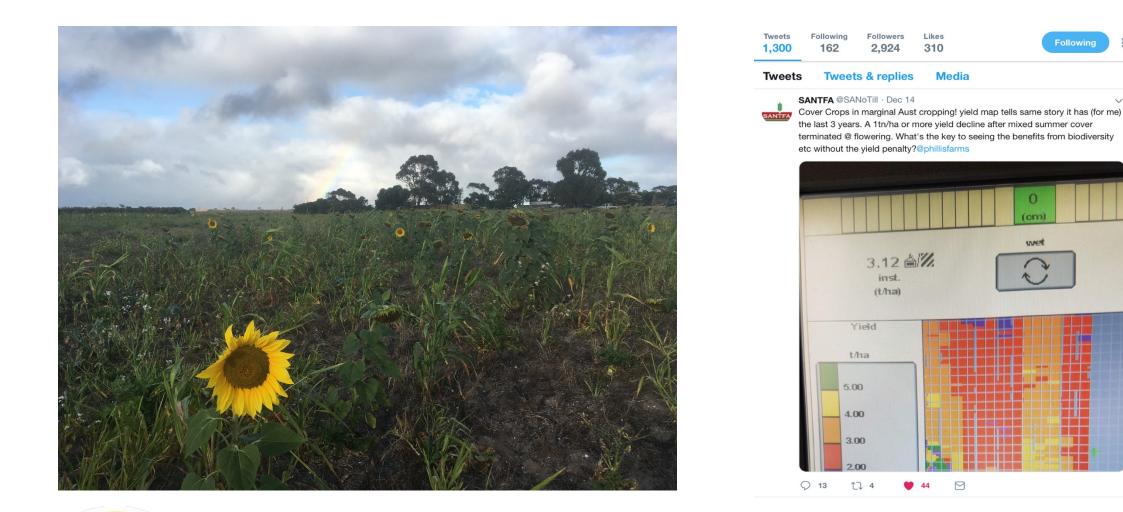


### **Summer Weed Control**





#### **Summer Cover Crops**





#### **Companion and Intercrops**





### **Baling: Failed Crops and Straw.**





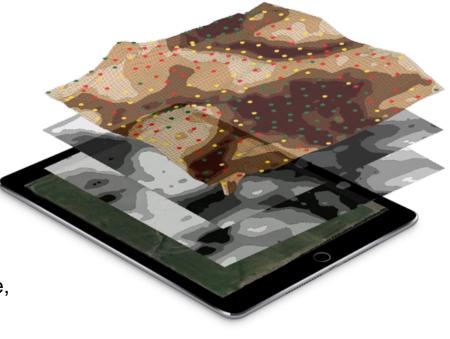
## Measure

#### **Organic Matter**

Soil OM is both evidence of previous productivity and a driver of future yields. The increased water availability, soil structure and nitrogen mineralization are keys to guiding inputs.

#### **Multi-depth Texture (EC)**

Measuring soil electrical conductivity is a proven method of mapping soil texture. The major driver of water holding capacity, Cation-Exchange Capacity (CEC), drainage, topsoil depth and nutrient use, loss, and storage. Recording EC at several depths provides these insights throughout. the rooting zone.



### Soil pH

Nutrient use, crop growth, and herbicide activity are all affected by the pH of the soil. Extreme variability within fields demands the dense sampling of on-the-go soil sensing.

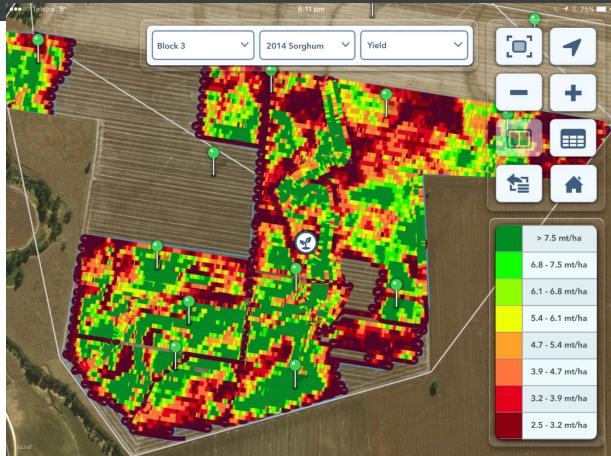
## U Series



Veris Soil EC and OM mapping is now available in a compact yet powerful package. This reduces the total equipment investment and widens the mapping window.

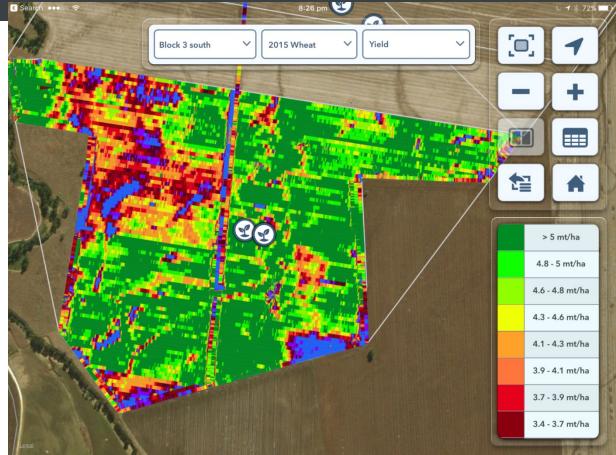


# Map Layers





# Map Layers





## Map Layers

