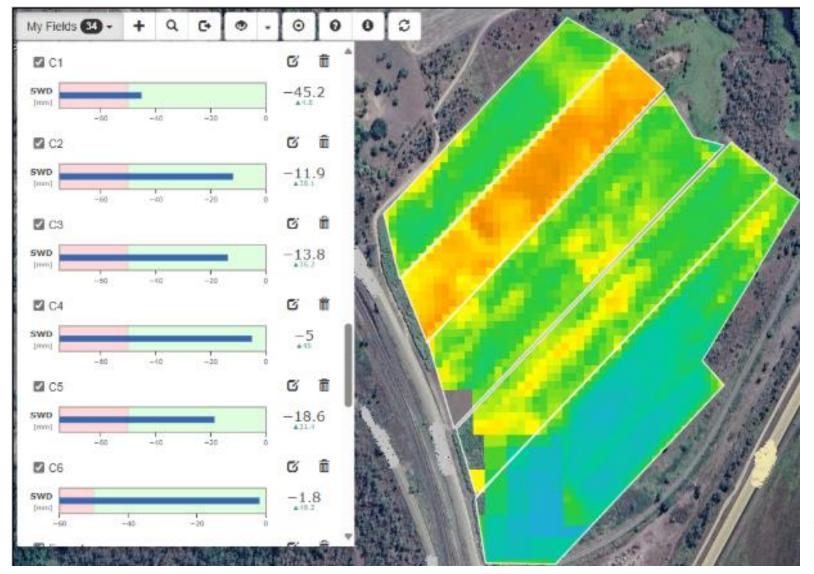
### IrriSAT V2



#### What is IrriSAT V2?

IrriSAT is a free, online irrigation scheduling tool that uses satellite data to provide paddock specific recommendations. It has recently been improved for use in sugarcane.





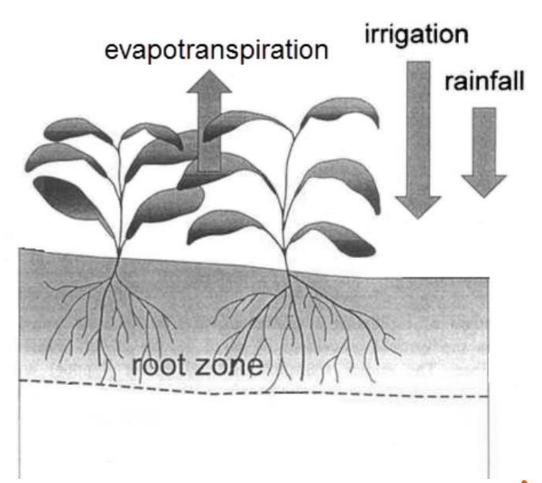
## How Does IrriSAT V2 Benefit Growers

- MIP (Mackay Irrigation Project) led by John Eden, has quantified the economic and environmental benefits of irrigation by working with growers in real on-farm conditions. Case studies were completed to share the importance of irrigating and demonstrate the direct relationship irrigation has to yield increase.
- Improved WUE (Water Use Efficiency) = Improved NUE (Nitrogen Use Efficiency).
- IrriSAT is a system that helps growers become more aware of the importance of CWU (Crop Water Use) on their farm. SRA is supporting growers through the setup of irriSAT to enhance their knowledge and understanding.



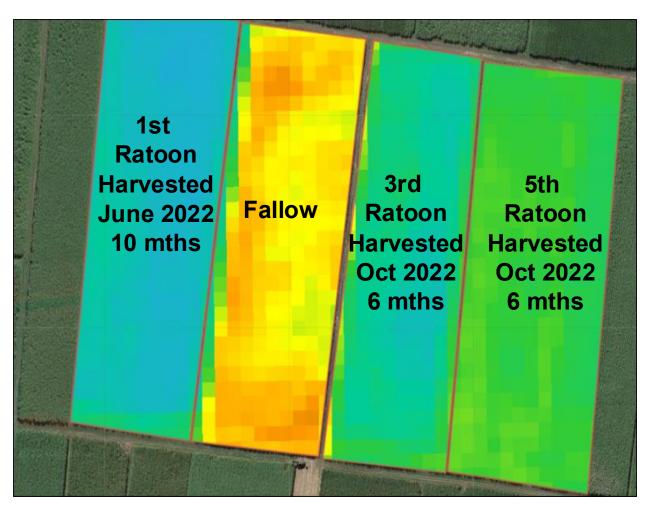
#### Where To Start

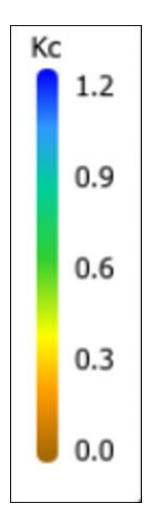
- 1. Go to: <u>IrriSAT v2 Weather based irrigation</u> scheduling
- 2. Log into a 'Google Account'
- 3. Draw paddocks
- 3. Enter paddock details
- 4. Irrisat measures crop canopy closure by satellite NDVI imagery
- calculating the crop co-efficient (Kc)
- 5. Evapotranspiration **(ET0)** data is sourced from SILO/BoM
- 6. Crop water usage is calculated = Kc X ET0
- 7. Soil water deficit is tracked across the season
- rainfall + irrigation evapotranspiration/crop water usage





# **Crop Coefficients (KC) From Late April**





- 1<sup>st</sup> Ratoon = High water use, healthy crop
- Fallow = No water use, no crop
- 3<sup>rd</sup> Ratoon = Moderate water use, still healthy crop
- 5<sup>th</sup> Ratoon = Low water use, still healthy crop



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### Thank you.

