IREC R & D Update Rice 2023

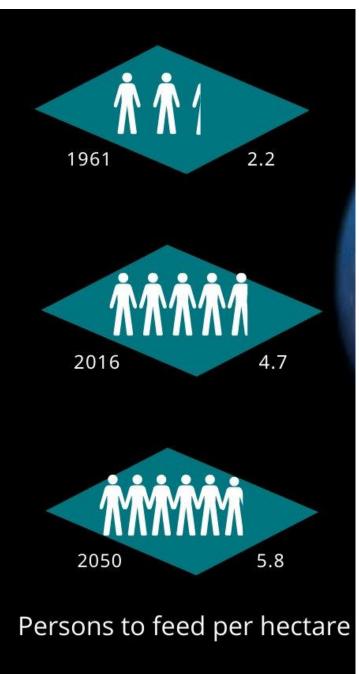
What have we learnt from 2023?

<mark>SUN</mark> RICE

A Growing Challenge



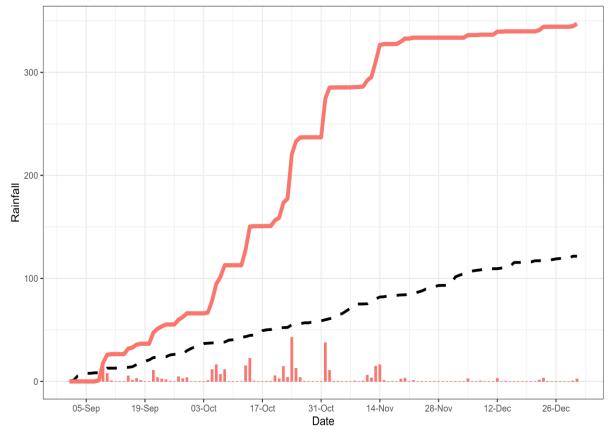
With nearly 10 Billion people to feed by 2050, the need to increase yield using **existing land and water** has never been greater **in human history**





Wet Spring

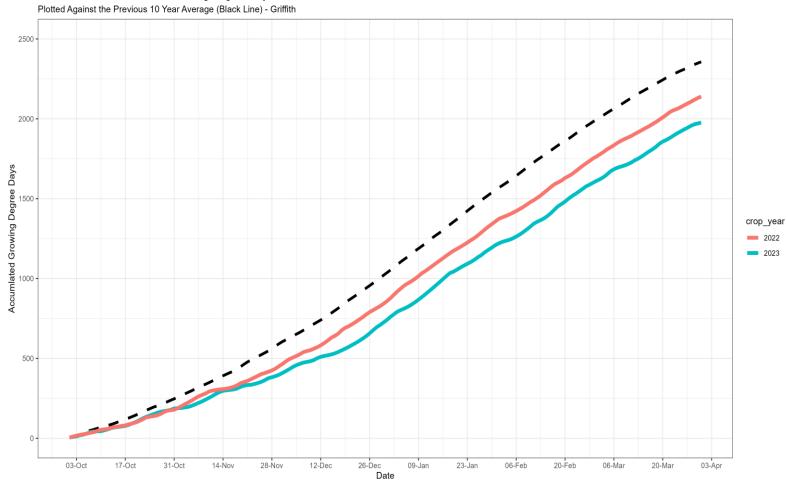
CY23 Cumulative Rainfall and Rain Events (Bars) Plotted Against the Previous 10 Year Average (Black Line) - Benerembah



- 8% of crops planted within ideal planting window
- 20% planted extremely late December





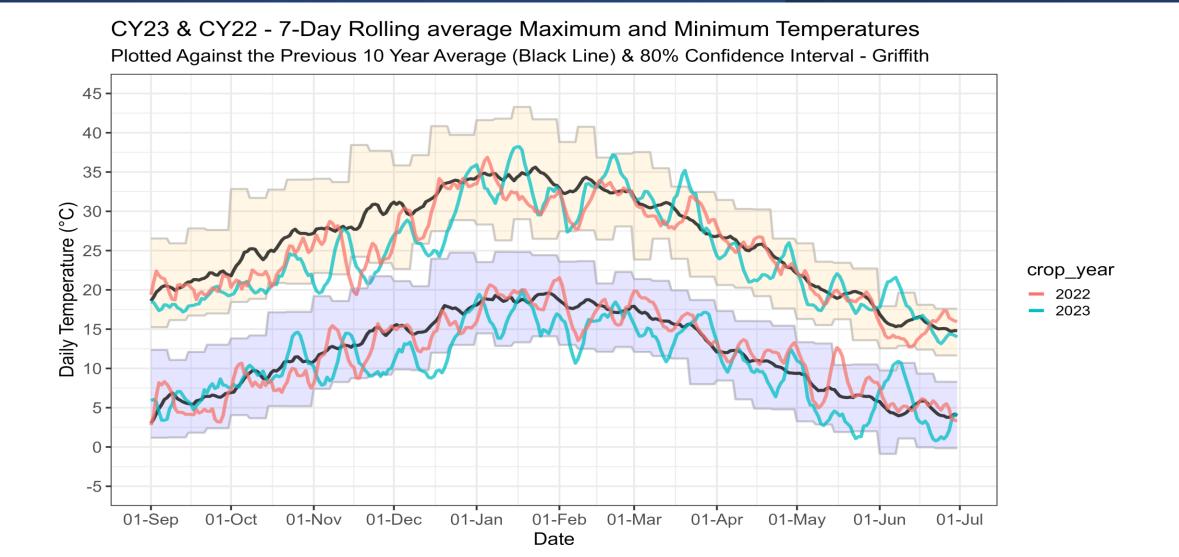


CY23 & CY22 - Accumlated Growing Degree Days





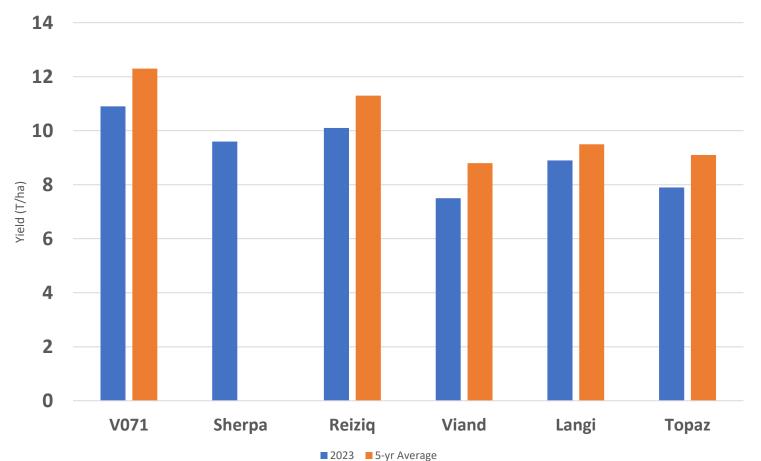
Cool Summer



Yield Summary

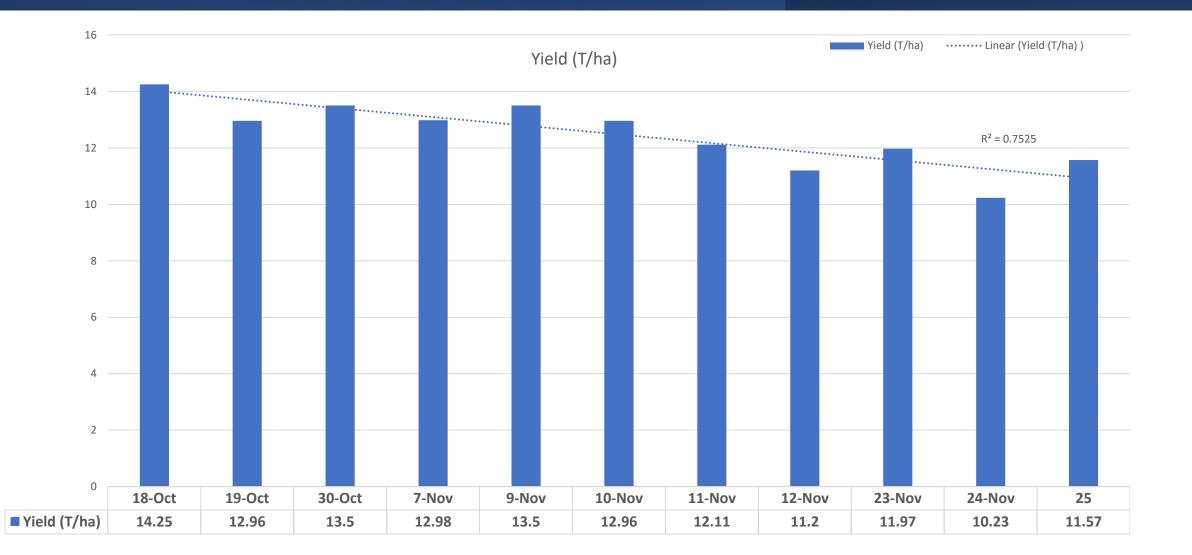


2023 Variety Yield compared to 5-year average - MIA



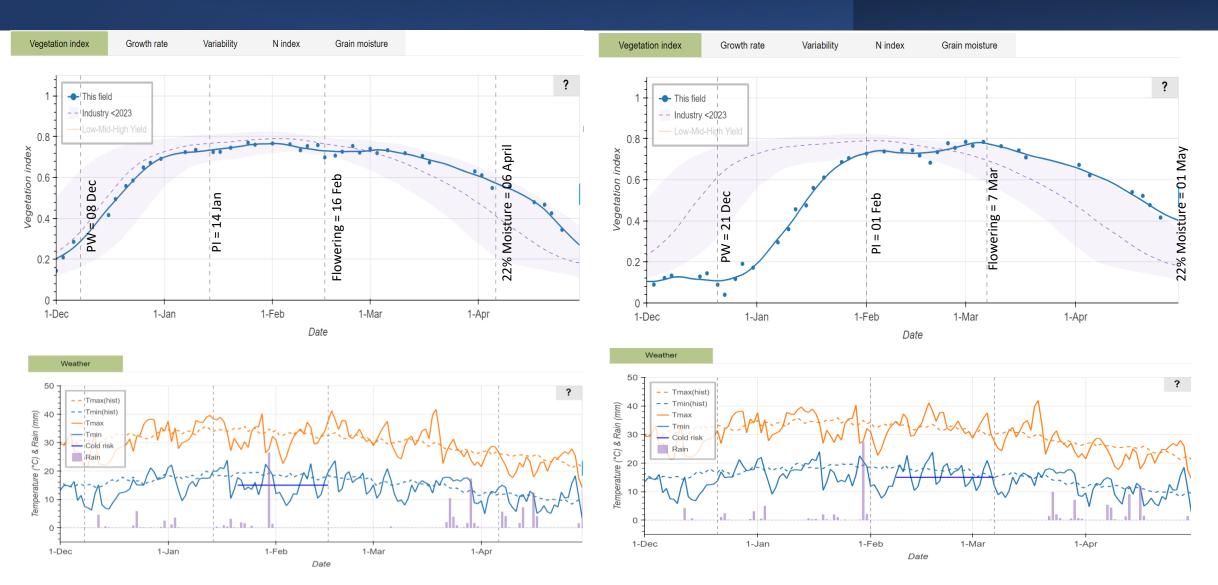
- 8 12% lower yield
- V071 compared to Topaz
- Still had some excellent crops
 - Top 20% 13.1T/ha
 - Top Yield 15.1T/ha
 - Key points as per summary page

Case Study - MIA



Sun Rice

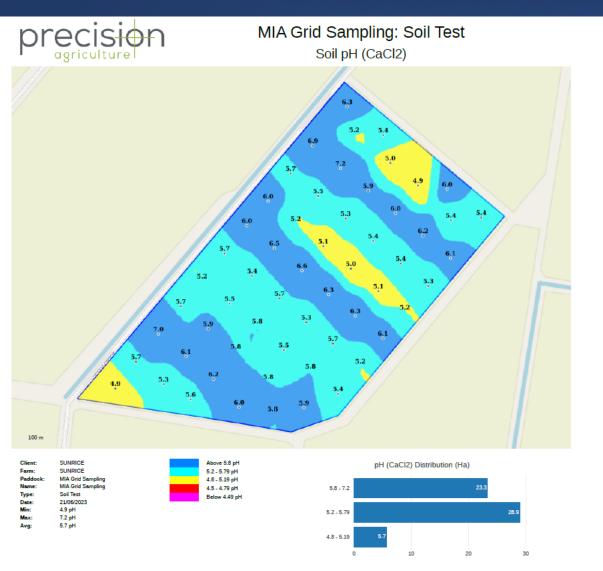
Real Time Remote Sensing James Brinkoff - University of New England







Optimised Best Management Sites



- Grid Soil Test
- Deep Soil Test
- EM Mapping
- Historical Yield Maps
- Cut/Fill Maps
- VR Soil Amelioration
- VR Nutrition
- Optimum seeding / Plant population
- Optimum Timing of Operations
- Yield
- Nutrient Use Efficiency
- Water Use Efficiency
- \$ Returns (Rotation)