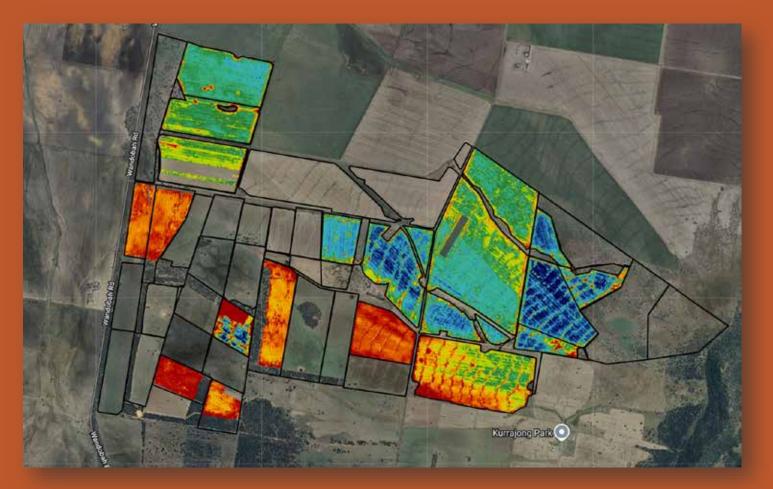
Optimising crop growth in a hypertexture contrast Sodosol through delving and amendment application

Stephen Cattle and Luke Ivers





- Sodosol with hyper-texture contrast; silicified cap on top of B horizon (ESP ~ 20)
- Surrounded by highly productive Vertosols, so used primarily for grazing







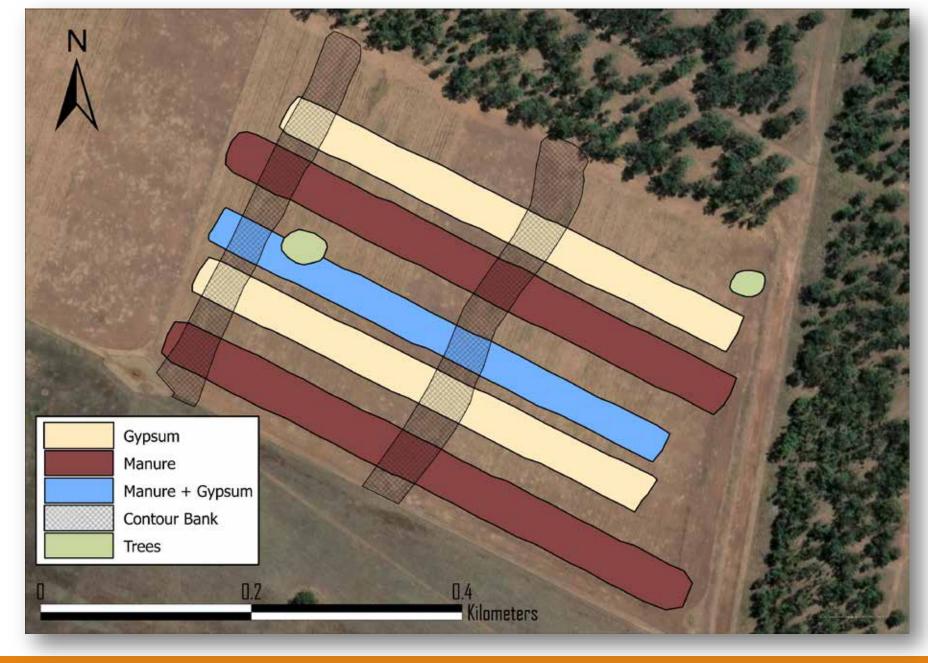


- S Challenging soil; low CEC, high ESP, low water-holding capacity of topsoil; low OC apart from surface
- S Clay delving to increase water-holding capacity
- § Pre-delving amendments (manure, gypsum) to mitigate potential drawbacks
- § Is there a yield response?



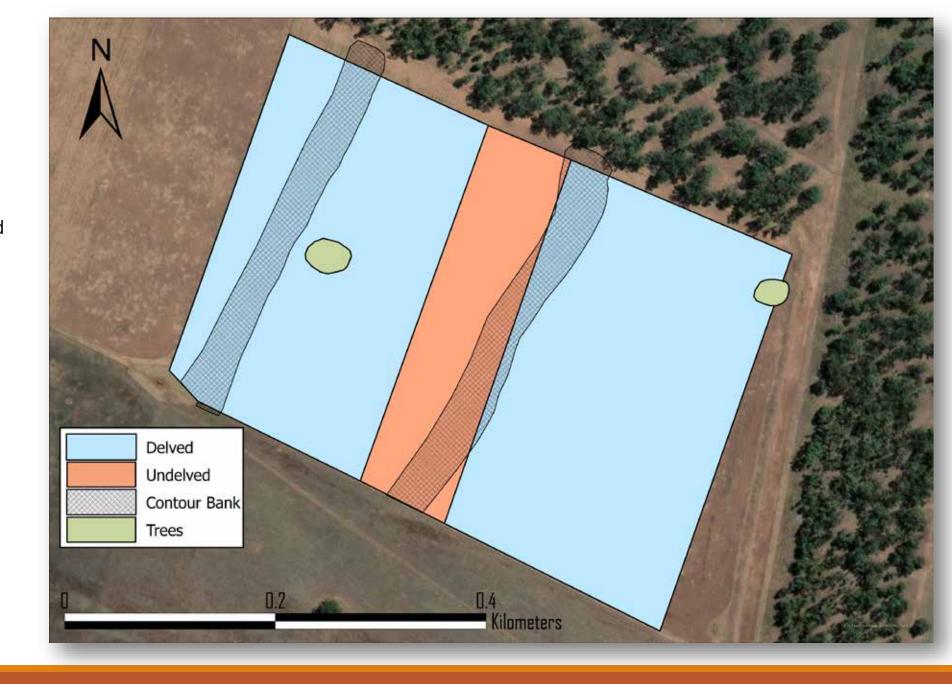
Paddock Strip Trials

- § Surface application of amendments: 8th June 2021
- Gypsum spreading: 2.5t/ha x 10.4 ha
- Feedlot manure spreading: 10t/ha x 10.4ha

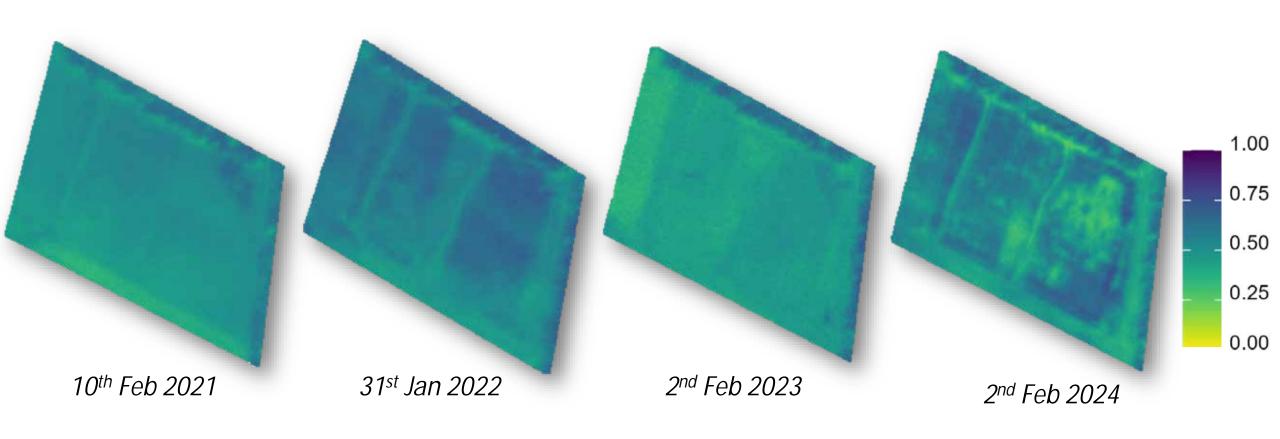


Paddock Delving Trial

§ Delving completed 22nd June 2021

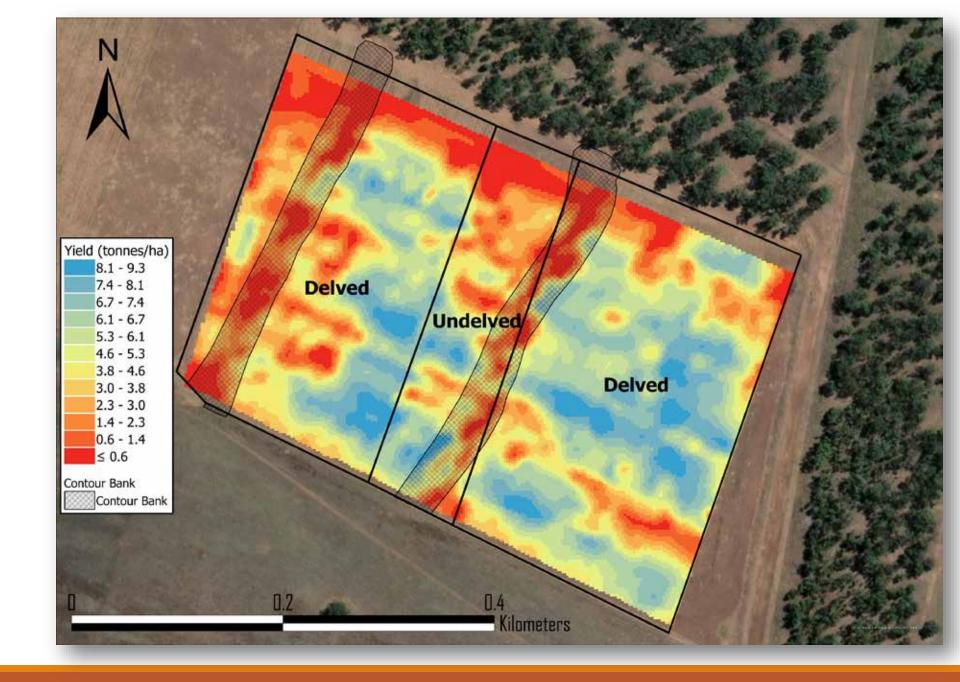


NDVI Timeseries

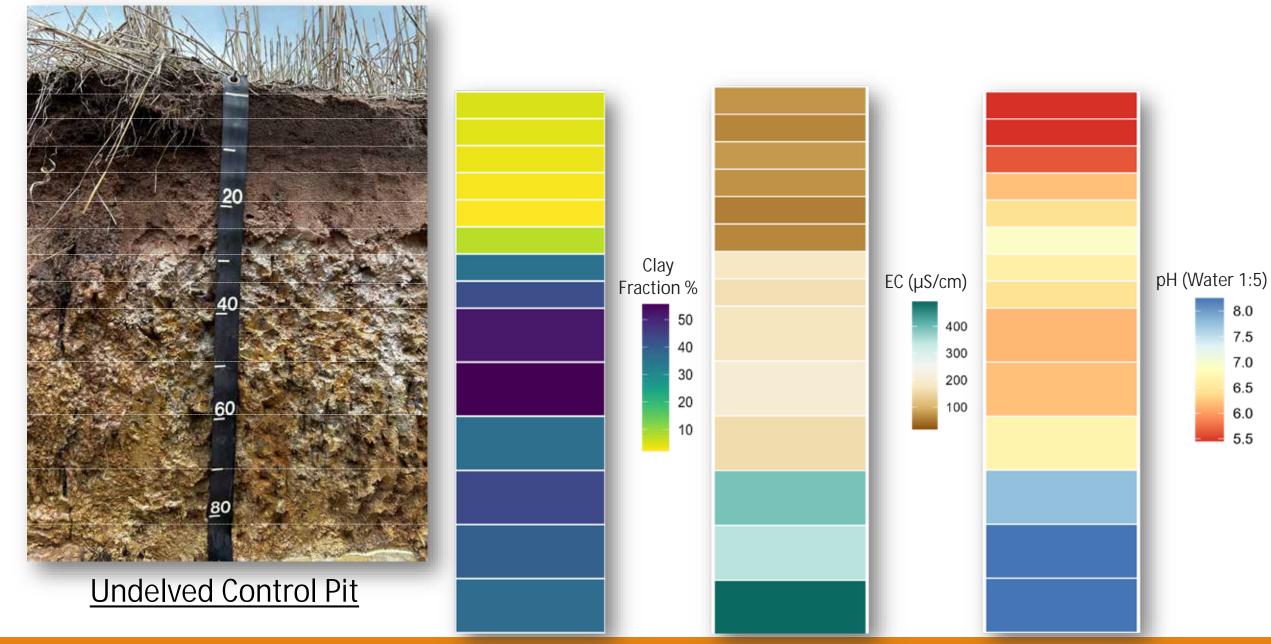




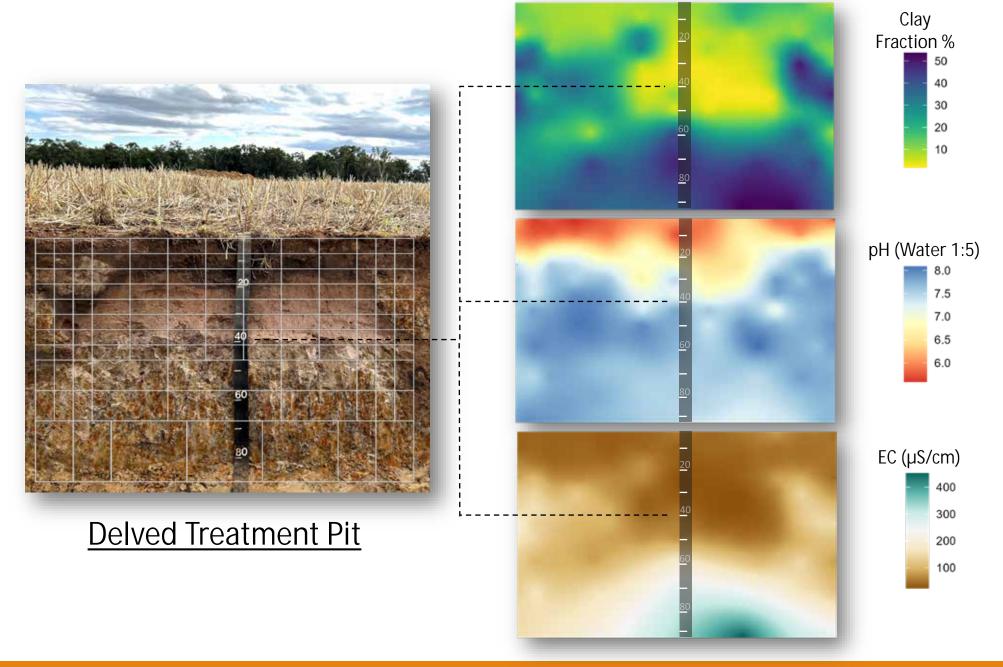
<u>Wheat Yield – 2024</u> <u>Season</u>



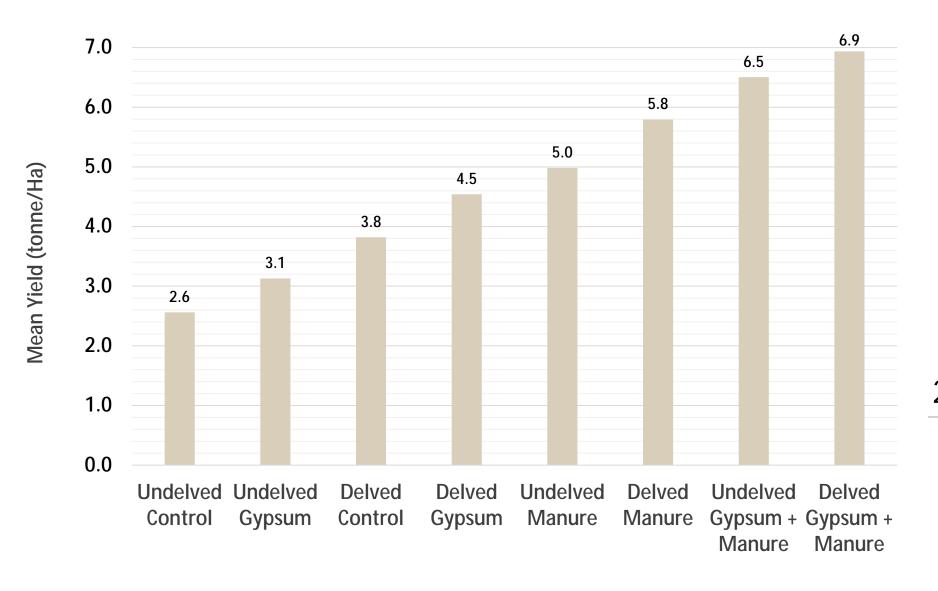












2024 Average Wheat Yield



