



Detect Crop Stress Early Without Any Human Intervention Or Devices

Krupalini V, Agribridge - October 2023

Early Detection™ Smart Monitoring



Phosphorous Deficiency in Soil



VARIOUS COMPLEXITIES
IN A SINGLE FARM - MAIZE CROP



Wild Boar Attack



Fall Army Worm Attack



Potassium Deficiency
in Crop

Early Detection™ Before Visual Manifestation



EARLY DETECTION BY AGRIBRIDGE



NO VISUAL MANIFESTATION – GROUND REALITY



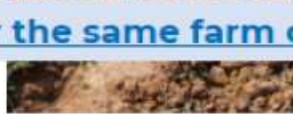
FALL ARMYWORM DETECTED BY OPENING CORN COB

Solutions based on Sentinel

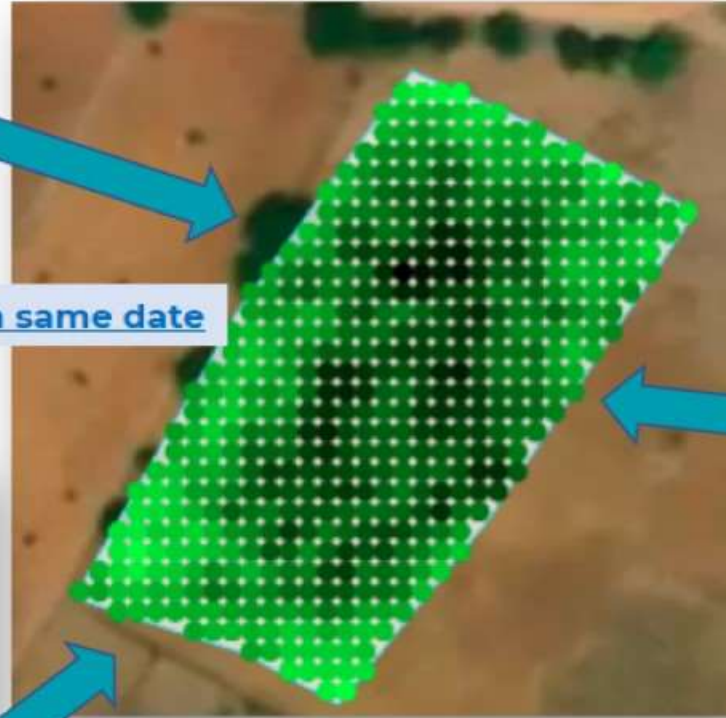
Commercially Off The Shelf (COTS) static images
with no further Analysis



Comparison for the same farm on same date



Krishivaas Crop Stress based on Planet



Ground truthed Images on the same date

- 444 unique points per acre
- 5 seasons ground validated
- Proprietary algorithms analyzing the severity & extent
- Automated Alerts
- Navigation to exact location of crop stress

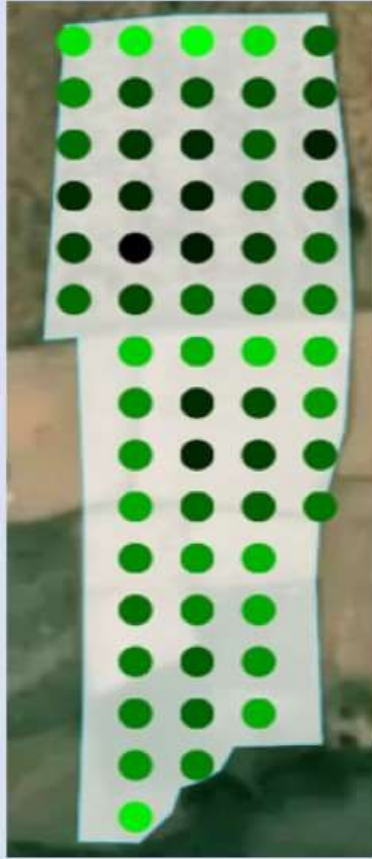
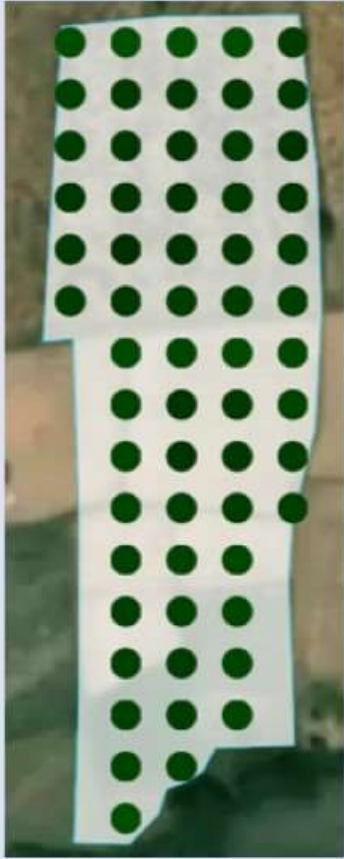


Early Detection™ NDVI vs Krishivaas Algorithm



Sentinel: NDVI in Green scale

Sentinel: Krishivaas Crop Stress Map



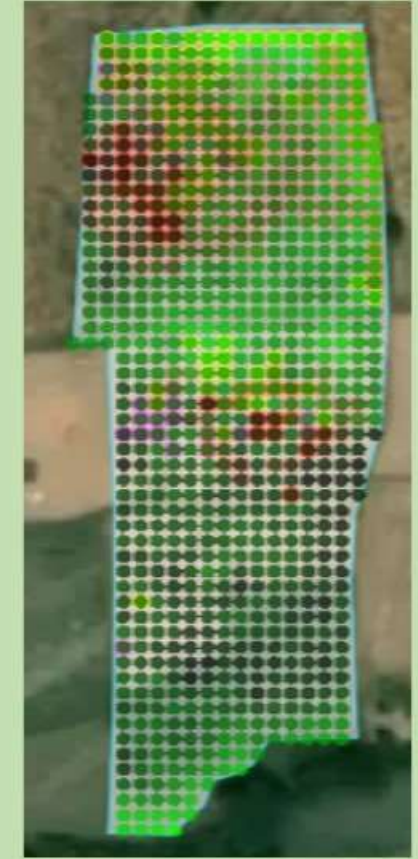
Total of 7 clear Sentinel Images received for this farm (Over 121 days)

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Planet: NDVI in Green Scale

Planet: Krishivaas Crop Stress Map

Planet: Krishivaas early detection with stress quantification



Total of 40 clear Planet Images received for this farm (Over 121 days)



Thank you.

www.Krishivaas.in

