

Ag Trace

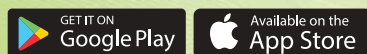


AgTrace™

NEXT GEN PLANT HEALTH ANALYSIS
THROUGH GIS IMAGERY



Available on



Ag Trace

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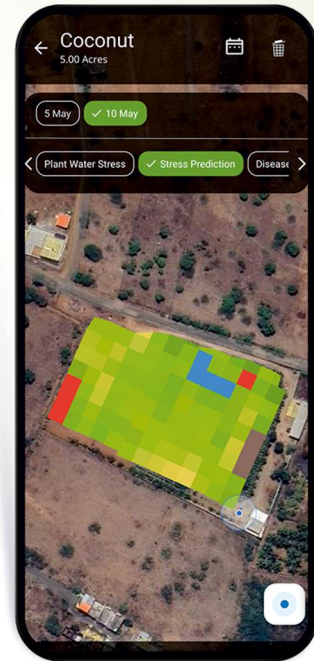
Next Gen Plant Health Analysis Through
GIS Imagery

Advanced Plant Stress Monitoring

Catch crop vulnerabilities long before they become visible to the naked eye. By tracking reduced near infrared reflectance and canopy temperature anomalies, **Ag Trace identifies early physiological stress**

Stress Factor Tracked

- Water deficiencies and heat waves.
- Nutrient imbalances and toxicities.
- Soil salinity and root zone damage.
- Extreme weather event recovery.



Plant Moisture Assessment

Using advanced moisture related metrics like the Normalized Difference Water Index and Moisture Stress Index, we help you optimize your water footprint.

- Identify rapidly drying areas.
- Increase irrigation precisely where moisture zones are low.



Data Driven Actions

Drought Monitoring: Detect rapid drying trends across expansive land segments.

Targeted Irrigation: Delineate low moisture zones so you can increase irrigation only where needed, cutting water and pumping costs.

Precision Scheduling: Design variable rate watering schedules built on actual spatial moisture variability.

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Plant Health Analysis

Ag Trace tracks the interaction between electromagnetic radiation and plant tissues. Healthy crops absorb specific wavelengths like red light and reflect others (like near-infrared). By capturing these invisible spectral patterns, we calculate advanced vegetation indices to measure crop greenness and photosynthetic activity



Key Outputs

- **Relative Health Maps:** Color coded field visuals categorizing health into Poor, Fair, Good, and Excellent bands.
- **Vigor Comparisons:** Side-by-side performance benchmarks of different fields or crop zones.
- **Temporal Trend Analysis:** Multi date tracking to verify if crop health is improving, stable, or declining over the season.

Plant Pest Disease

Remote sensing and image analysis cannot definitively diagnose a specific biological pathogen or insect species. Instead, it serves as an early detection diagnostic tool by identifying unusual vegetative anomalies that require immediate field scouting

- Localized Chlorosis
- Abnormal Canopy Reflectance
- Patchy Vegetation Decline



Key Outputs

Suspected Problem Maps: Highlighted coordinates showcasing localized health anomalies.

Risk Scouting Zones: Digital maps that guide your agronomists directly to the problem areas, saving hours of aimless field walking.

Progression Tracking: Time lapse monitoring to check if a biological threat is contained or actively spreading.

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Product Catalogue

Version 2.0