

Decision Agriculture.

Arable measures microclimate and crop productivity, enabling seed breeders to monitor and evaluate phenotype performance under varying environmental conditions.

n Plant Growth

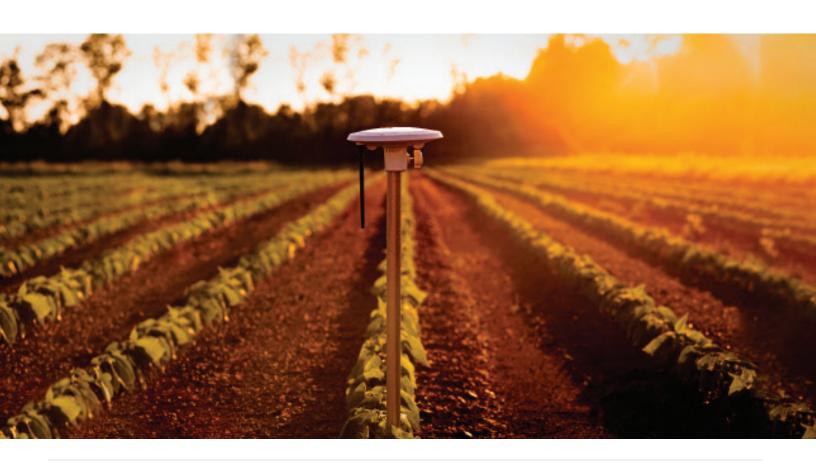
Weather for Open-Field Breeding

- Monitor environmental stressors with hourly field-level weather updates that correlate precipitation events, humidity, dew point, leaf wetness and temperature.
- Identify disease risk and fungal pathogen tolerance windows with daily sunlight hours and temperature ranges.
- Baseline photosynthesis of high-performing varieties with solar radiation measurements.

Arable Labs. Inc. www.arable.com

Insights on Plant Growth

- Understand drought tolerance, plant water levels and transpiration rates by linking plant canopy temperature with ambient air temperature.
- Identify changes in the plant development process affected by nutrition and environmental stressors through NDVI and Chlorophyll content.
- Track accumulated heat units to evaluate plant performance crop growth stages using field-level GDD.





Simple. Reliable. Durable.

- The Arable Mark 2 is the first IoT-enabled weather and crop monitor with extended LTE-M & 2G coverage.
- Solar power, fit-for-the-farm durability, and easy installation increase efficiency to boost your bottom line.
- Access your data anytime, anywhere via our intuitive, user-friendly web platform and mobile app.
- Connect third-party sensors to pull in soil, wind, water flow data, and more.



Ask us about...

Arable **Mobile**, our new mobile app for on-the-go data access.

Arable **API 2.0** allows for integration into the business tools you already use.

Arable Mark 2 Tech Specs

Unique Data. Unique Insights.



Precipitation

Rainfall to +/- 6%/hr Dew Detection



Evapotranspiration

Dynamic Kc Forecasted Crop ET



Radiation

Solar Radiation



Plant Health

NDVI Chlorophyll Index 7-Band Spectrometer



Weather

Temp to +/- 0.8°C at solar noon Rel Humidity to +/- 5% Pressure < 0.5 kPa



Harvest / Event Timing

Growing Degree Days



Integrations / Accessories

Soil Moisture Probes Wind Speed & Direction Pressure Switch/Transducer And More



Cellular Connectivity

LTE-M NB-IoT* 2G *Availability dependent on location

