ARABLE

Total Crop Intelligence
One Simple System

Accelerate research trials and maximize production of high-quality seeds with hassle-free in-field weather and crop monitoring.

Better Data.
Smarter Decisions.
Greater Returns.

With in-field weather, plant, soil, and irrigation data at your fingertips, you can **spend less time guessing and more time optimizing productivity, sustainability, and profitability.**

Standardize Your Global Data with a Maintenance-Free, In-Field Sensing and Monitoring System.

Weather
- Temperature
- Precipitation
- Pressure
- Humidity
- Wind
- Vapor Pressure Deficit
- Dew Point Temperature
- Solar Radiation
- Forecasts
- Frost/Heat Alerts

Plant
- Daily Crop Photos
- Growing Degree Days
- Growth Stages
- Evapotranspiration (ETc & ETo)
- NDVI
- Leaf Wetness
- Crop Water Balance
- Canopy Temperature
- Heat Stress
- Chlorophyll Index
- Chill Hours

Soil & Irrigation
- Soil Moisture
- Soil Salinity
- Soil Temperature
- Hours to Irrigate
- Applied Irrigation
- Start & End Times
- Total Run Times

Arable for Seed Breeding

Advance the right cultivars with greater confidence and less effort using one simple envirotyping system.

Comprehensive Data

Accurate weather, plant, soil, irrigation, and forecast data, as well as crop images, provide total visibility into plant response to environmental drivers.

One Global System

Standardized hardware and data sets across global research sites help better understand varietal performance and eliminate subjectivity in crop inspections.

Characterization History

Comprehensive historical data and insights result in improved varietal advancement and trial site selection.

API Integration

Data seamlessly integrates into 3rd-party platforms and proprietary agronomic models.

Make Evidence-Based Advancement Decisions. Deliver Profitable Production Outcomes.

Arable for Seed Production

Optimize quality and yields with in-field weather and crop insights at your fingertips.

Irrigation Management

Crop-level ET (ETc) calculations use spectral NDVI data for an accurate measurement of the crop's unique water requirements. Rain measurements and forecasts combined with soil moisture data quantify water inputs and crop water demand on a field-by-field basis.

Advanced Analytics

Standard and customizable dashboards deliver unique insights into plant performance and environmental variables and provide deep analysis for end-of-season reviews, reporting, site and crop comparisons, and more.

Labor Planning

In-field weather and forecasts, daily images from the field, crop growth stage tracking, and spray timing recommendations allow for better scheduling of field work.

Supply Chain Visibility

Crop growth stages and weather data lead to more accurate harvest timing and yield projections. Visibility into contract growers' in-field data and performance results in optimized seed production.

Arable Mark 3:
So Much More Than a Weather Station

Simple

- Installs in under 5 minutes with one-button activation
- Lightweight and portable
- Maintenance-free with no moving parts
- Cloud-based data storage; no data logger required

Reliable

- Continuously improving data accuracy via a global, research-based calibration/validation network
- Solar powered with long-lasting battery for low sunlight conditions
- High-powered antenna and robust cellular connectivity to monitor remote locations
- Farm-tough durability; IP67-rated for protection against water and dust ingress

Complete

- Built-in 5MP camera for daily contextualized photos
- Pre-integrated sensor suite for comprehensive environmental and plant data collection
- 22 narrow-band spectrometer to monitor plant health
- Ultrasonic wind anemometer
- Seamless integration with third-party sensors