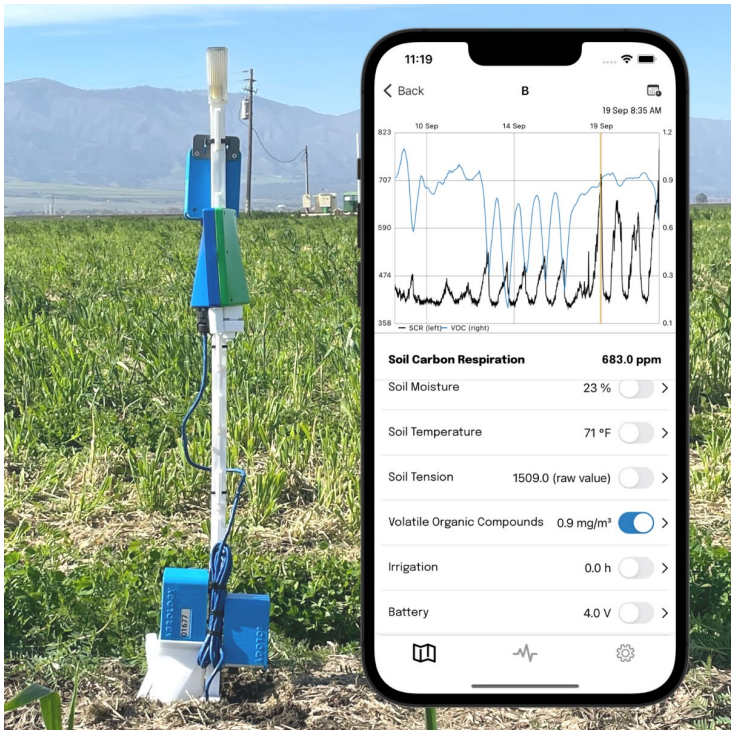
AgroSpectrum ASIA
Envisaging Future | Updating Present

Agrology launches Climate-Smart Farming digital technologyÂ

08 March 2023 | News

Arbiter Carbon Monitoring System is designed to continuously monitor and quantify Soil Carbon Flux



Arbiter Carbon Monitoring System is designed to continuously monitor and quantify Soil Carbon Flux

Agrology, a global leading Predictive Agriculture company, has launched the Arbiter Carbon Monitoring System, the only available system that continuously monitors and quantifies soil carbon flux for farmers. The Agrology Arbiter System helps growers track and quantify soil carbon, delivering carbon flux data and soil health data to growers on their mobile and desktop devices. With Arbiter, growers receive critical alerts for anomalies and complex challenges like soil carbon flux and soil microbiome health, the pinnacles of regenerative farming.

Agrology's Predictive Agriculture Platforms makes it easy to be more regenerative, quantify soil carbon, and stay ahead of threats like drought, pest and disease outbreaks, smoke taint, extreme temperatures, and more.Â Growers receive critical alerts for anomalies and complex challenges like soil carbon flux and soil microbiome health, the pinnacles of regenerative farming.

The Agrology Arbiter Carbon Monitoring System is able to perform the below tasks:

- Monitors soil carbon flux, soil carbon changes, soil carbon respiration, soil carbon sequestration, and soil conditions.
- Continuously tracks soil carbon sequestration by evaluating soil carbon flux and then delivers that data to growers in real time.
- Gathers the highest quality carbon data from an entire project geography, enabling growers to know what is happening ecosystem-wide.
- Characterizes soil composition changes including soil carbon flux, soil moisture release curves, and soil fertility/salinity. This helps growers understand soil health and carbon content. (As soil carbon increases, soil water and soil nutrient availability improve).
- Alerts growers of significant soil or atmospheric events that impact carbon levels so they can adjust regenerative practices accordingly.

Agrology Arbiter devices gather comprehensive data below and above the ground, and track soil conditions and atmospheric gasses. Once data is gathered, Agrologyâ??s machine learning models synthesize data to monitor complex challenges like soil carbon flux and soil microbiome health. Growers own their data and can pull it anytime from their individually encrypted storage using Agrologyâ??s grower portal and data APIs. With Arbiter, growers can monitor ecosystem-wide activity continuously.