

DATA COLLECTED

- Each CropX soil sensor collects moisture, temperature and EC at two/three depths (depending on HW's version) – 8", 18" & 36" (20, 45 & 90 cm) every 30 min and transmits to CropX Cloud at 12-hr intervals. Both intervals can be remotely configured and modified according to your needs.



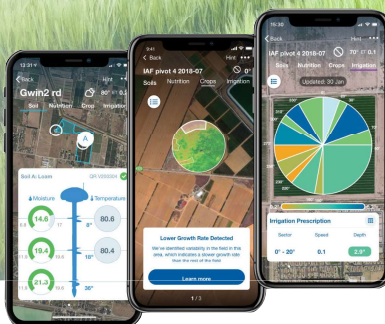
- Moisture values are converted from electric impedance to VWC using a propriety self-calibration method, regardless of the soil type. Moisture values have an accuracy of $\pm 1\%$ across a range of 5-40% VWC.
- Temperature with an accuracy of $\pm 0.9^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$) and an operating range of -40°F to $+257^\circ\text{F}$ (-40°C to $+125^\circ\text{C}$).
- Bulk Electrical Conductivity (dS/m) continuously monitored to help maintain optimal soil salinity & nutrient levels.

- Soil type and texture are mapped using publicly available data sources and soil maps.
- Aerial images are obtained for each field, from several sources, including many Ag-related indices, such as NDVI, NDWI, MSI and RGB.
- Precise weather data (air temperature, humidity, wind speed, evapotranspiration, precipitation and more) is collected by using various Ag-specific weather data services.

Please visit us online at
WWW.CROPX.COM
and map your own field,
free of charge!

cropx
Data Driven Farming

**CropX – Taking agriculture
to a big-data future**



- CropX is an innovative Ag Analytics company that offers a cloud-based farm management platform, leading farmers around the globe into the era of connected soil.
- Easy to install sensors with IoT connectivity measure soil moisture, temperature and electrical conductivity (EC) and send that data to the cloud, where the software integrates additional data such as location, soil type, topography, crop variety, weather and satellite imaging.
- The data and machine learning based actionable insights can help boost crop yield, save on inputs such as water, fertilizers, energy and labor, and can be accessed by farmers from any mobile device.



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- No setup costs or dependency on specific irrigation system types or any other limitations.
- Insights provided continuously throughout the growing season, allowing for immediate corrective action.
- User-friendly native iOS and Android apps as well as an HTML based web application.
- CropX offers "access hierarchy" which allows for the creation of additional log-ins to the same field, to support customers who employ service providers or providing services to others. There is therefore no need to share your log-in information.

- Patented spiral geometry allows a simple 5-minute installation and unprecedented accuracy, as spirals cut into undisturbed soil, thus preventing biased results due to preferential flow.
- Sensors are wireless and include a rechargeable Li-ion battery.
- Plug & Play - Simply open the CropX app on your smartphone, scan the QR code on your sensor and it will immediately transmit data to the internet and your device.
- After installation, the next time you will need to be near the sensor is for uninstalling at the end of the season, before harvesting.



IRRIGATION MANAGEMENT

- Water content is measured continuously. Its management range, alarms and notifications can be set for each depth separately.
- Faulty irrigation systems can be detected once the CropX platform identifies the field's irrigation regime and patterns.
- The CropX app can help figure out exactly how much to irrigate the field, by providing an irrigation prescription, constantly adapting to the changing conditions of the soil and weather.
- Continuous measurement in between sensors' depths, and even above and below them, where no physical sensor exists, allows monitoring of exact root depth, surface runoff, leaching and more.
- 'Virtual sensor' fills the gap in between CropX sensors, predicting moisture levels at any location in the field with high accuracy.

CROP-SPECIFIC MANAGEMENT

Selection of a crop type from a continuously updated dropdown list feeds into associated crop models. By combining those with soil data, satellite images and weather forecast, CropX can better determine water & nutrient needs, and can provide crop-specific recommendation, optimal harvest date, yield prediction and much more.

- By analyzing crop growth against known crop models, CropX can detect any deviation, and identify early-stage field variability and non-uniformity of crop growth and alert accordingly.