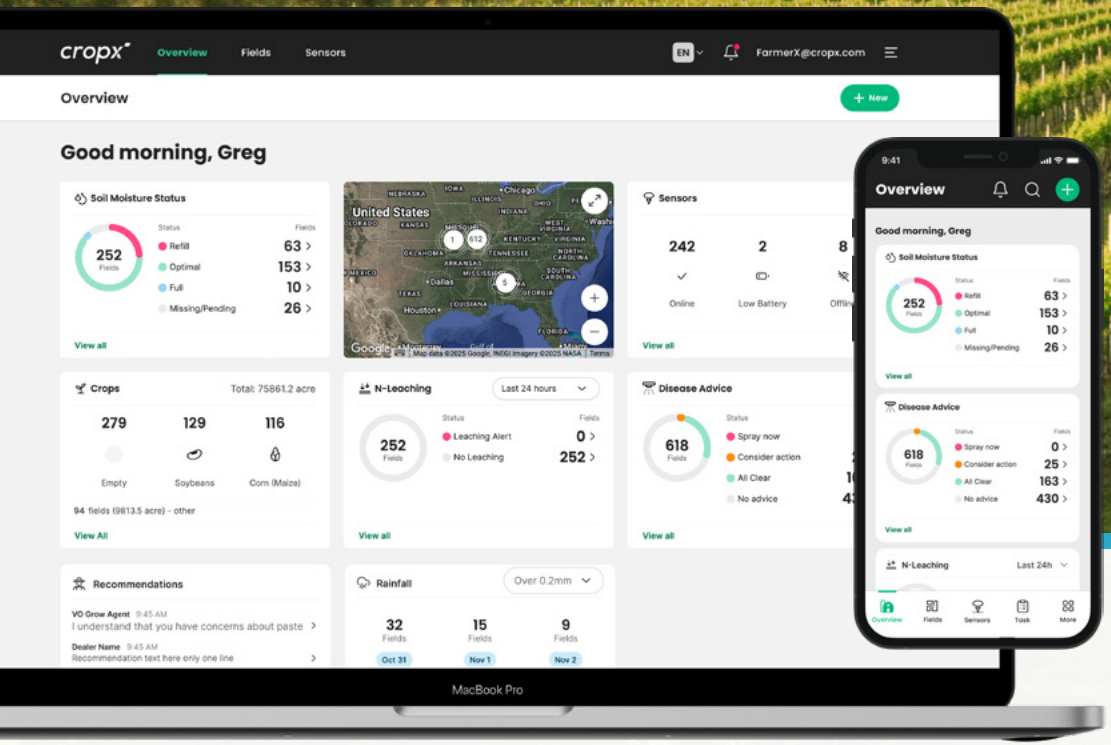
cropx

THE COMPLETE DIGITAL AGRONOMY PLATFORM

PRECISION HARDWARE & SOFTWARE

DESIGNED FOR A NEW AGE OF FARMING



2025 Product Brochure

YOU PUT EVERYTHING INTO YOUR FARM

DON'T LET IT GO TO WASTE

Unlock peak productivity, profitability, and resource efficiency with the complete **CropX digital agronomy platform.** One connected system. Smarter decisions. Stronger results.

Save on Inputs

Cut input costs without cutting corners. CropX helps you use water, nutrients, and energy more efficiently with precision irrigation tools, nitrogen leaching detection, and variable rate application.

By making smarter decisions faster, you save not just inputs but valuable time in the field. Better for your bottom line. Better for the planet.

Increase Yields

Grow more with less guesswork. CropX gives you real-time insights into crop health, disease risk, and water use so you can respond faster and keep plants thriving.

From satellite-based monitoring to in-field ET sensors, you stay in control at every growth stage. Healthier crops. Bigger yields. Smarter decisions.

Farm Sustainably

Reduce your environmental impact without adding complexity. CropX gives you full visibility across your farm, with connected tools to plan, track, and optimize every activity.

Seamlessly integrate with existing equipment and manage your entire operation with enterprise-grade precision. Smarter records. Stronger compliance. Real sustainability.

THE CROPX SYSTEM

Precise, Powerful, and Easy

CropX is a powerful precision agronomy system that centralizes soil data, in-field data, and satellite data in one easy-to-use software application.

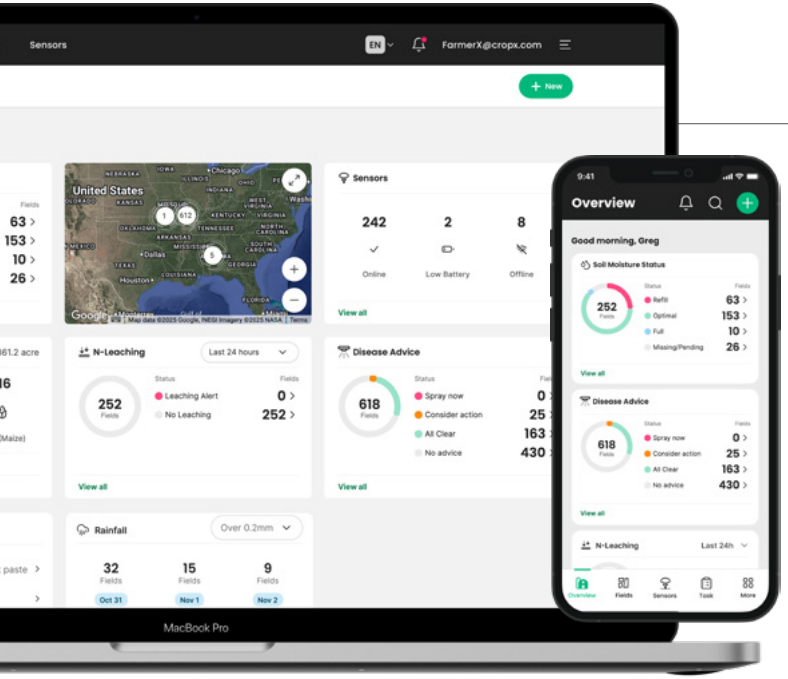
This data is filtered through our own hydraulic, agronomic, crop, and disease models, alongside topography and soil maps, to deliver valuable insights and actionable recommendations.

- Create or import fields in seconds
- Monitor crop health with satellite imagery
- Manage your farm networks across hundreds of sites
- Irrigate with precision and confidence
- Proactively detect leaching events and salinity stress
- Assess disease risk and protect your crops
- Track and report farm activity in detail
- Connect equipment for seamless data exchange
- Master variable rate application with powerful features
- Refine irrigation decisions with real-time evapotranspiration

THE CROPX SYSTEM

Hardware & Integrations

Power agronomic insights with a wide array of data sources, including integrations with other platforms and hardware.



CROPX SOFTWARE

Access key agronomic data and insights

CROPX EVATO 1 (ET1)

Actual evapotranspiration sensor

CROPX STRATO 1 (ST1)

All-in-one weather station

CROPX TELEMETRY 2 (TD2)

Field data gateway

CROPX RIVO 1 (RG1)

Rain gauge

CROPX VERTEX 4 (V4)

All-in-one smart soil sensor

THE CROPX SYSTEM

Field Tested & Trusted

Founded in 2014, CropX is one of the fastest growing providers of precision agronomic management solutions in the world. Our expertise is grounded in farming, agronomy, hydrology, machine learning, engineering and tech.

2,000+
FARM DEPLOYMENTS

180+
MACHINERY CONNECTIONS

15,000+
SENSOR DEPLOYMENTS

80+
CROP TYPES SUPPORTED

CropX Product Development Principles

We draw on the practical knowledge of our farmer-employees, founders and customers to deliver:

AGRONOMIC VALUE

Using accurate and robust data sets to provide impactful agronomic insights and advice to help farmers optimize yields and minimize resource use

SIMPLE SOLUTIONS

Developing clear and easy-to-use solutions that are accessible for every farm and attuned to the needs of large-scale agribusiness

CONNECTED DATA

Connecting and activating farm data to create solutions, transparency, and traceability for the benefit of the farmer, ag supply chain, consumer and planet

Low Water, High Yields: A California Citrus Success Story

Fifty trees were chosen to test how the Grower's practices compared to CropX irrigation advice. Control trees were irrigated using a sprinkler system and a separate, automated irrigation system was installed for trees irrigated using the CropX irrigation advice.

15%
YIELD INCREASE

68%
WATER USE REDUCTION

cropx

CROPX SOFTWARE

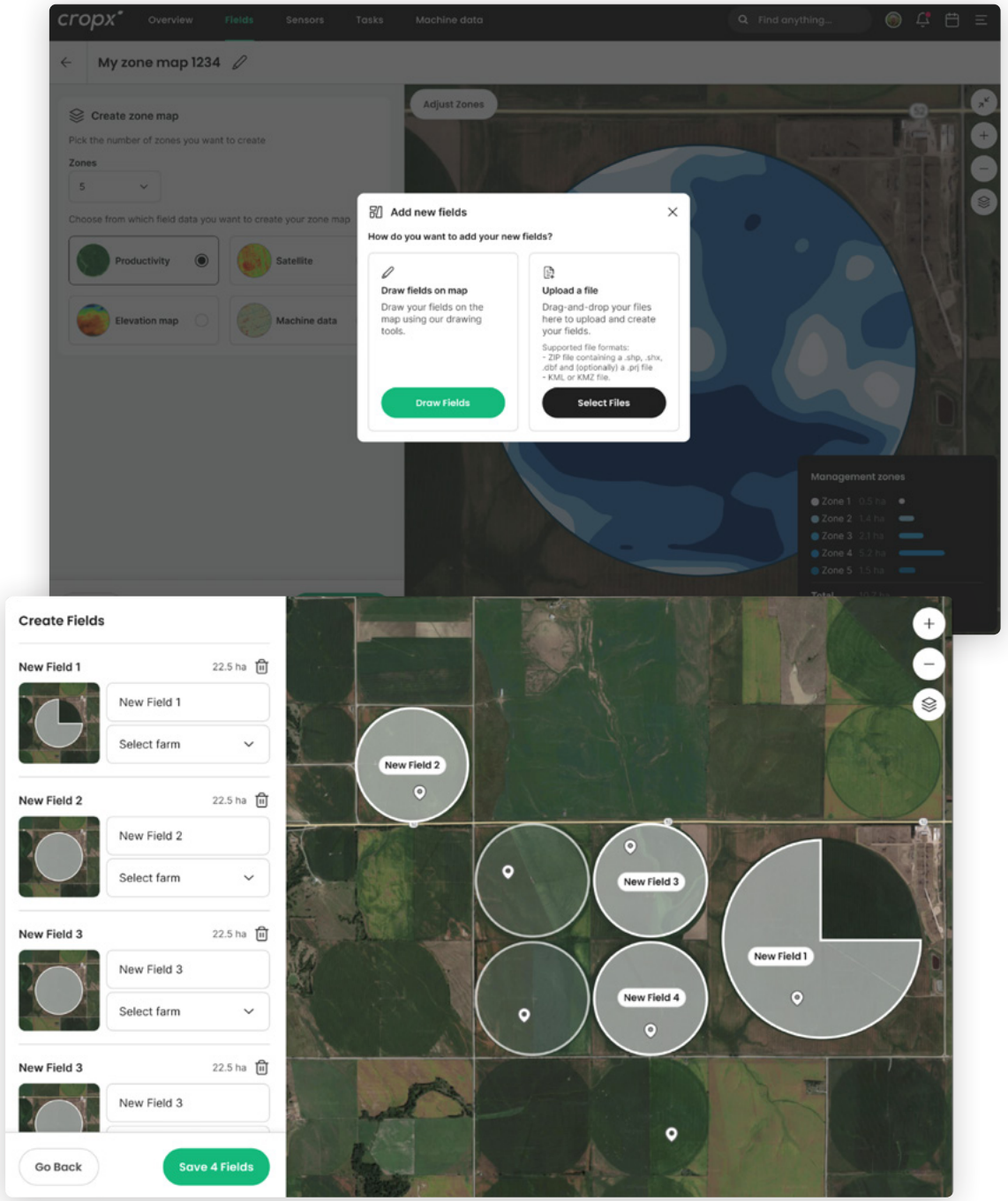
FOR iOS, ANDROID, AND DESKTOP

CROPX SOFTWARE

Create or Import Fields in Seconds

Import, drag-and-drop, or draw your own

- Bulk import full farm and field hierarchy from John Deere Ops Center or Climate FieldView
- Drag and drop any shape file
- Create from as-planted machine data
- Land parcel boundaries from European cadastral data
- Draw your own
- Auto detect soil zones and layers from local geological survey data

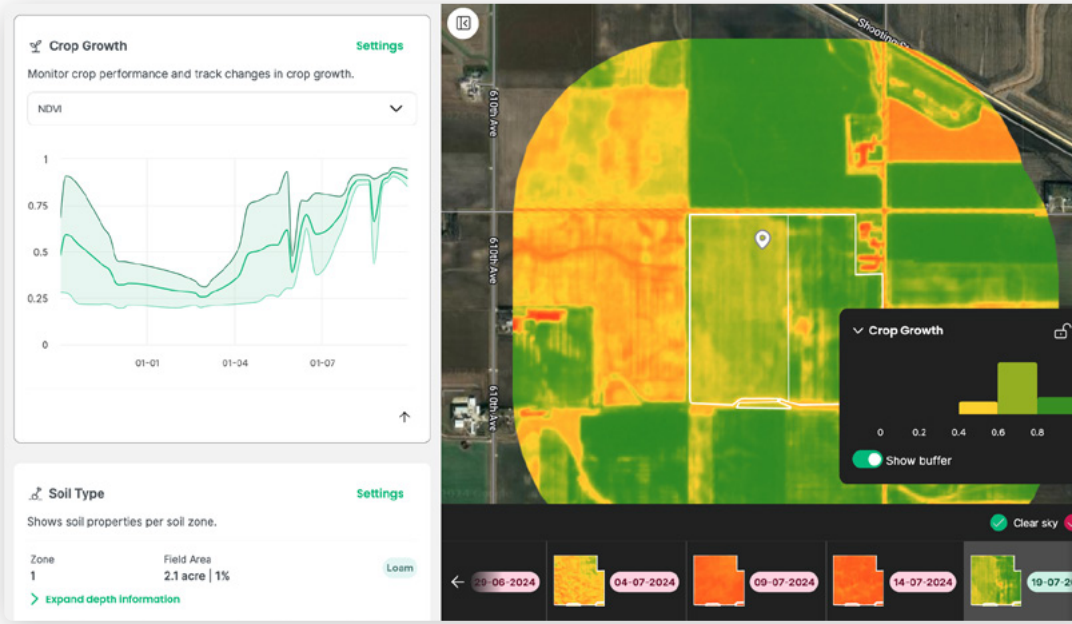


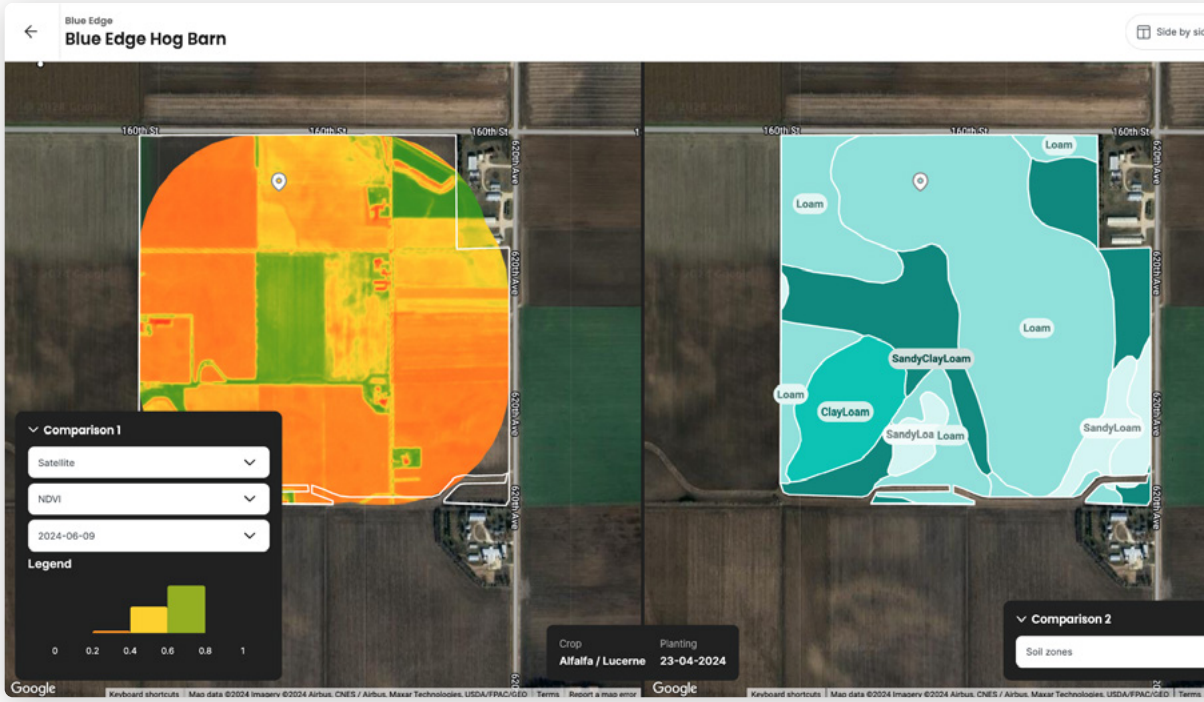
CROPX SOFTWARE

Monitor Crop Health with Satellite Imagery

NDVI, SAVI, NDMI indices and True Color maps

- Multi-year, multi-spectral satellite imagery (Sentinel-2, Landsat)
- 10 year historical productivity
- Detect in-field variability and issues
- Compare and contrast with any geospatial data
- Quickly add points of interest for scouting
- AI-based cloud detection



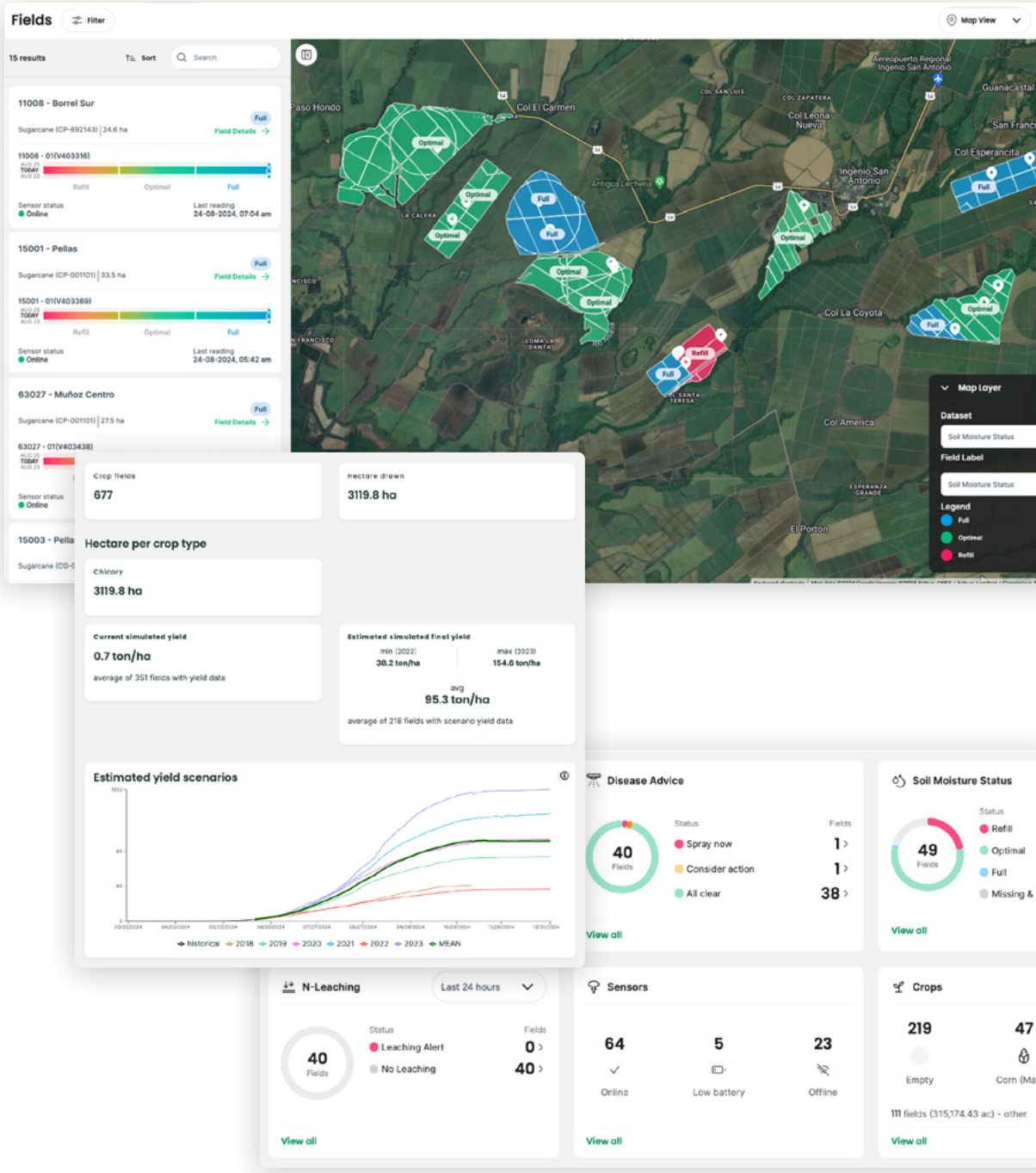


CROPX SOFTWARE

Manage Your Farm Networks Across Hundreds of Sites

Enterprise-grade crop, device, and data management

- Global agronomic overview of all managed farms and fields
- At-a-glance crop and field health status and KPIs across hundreds of sites
- Designed for dealers and agribusinesses for crop, device, and data management at scale
- Custom KPIs and dashboards on demand

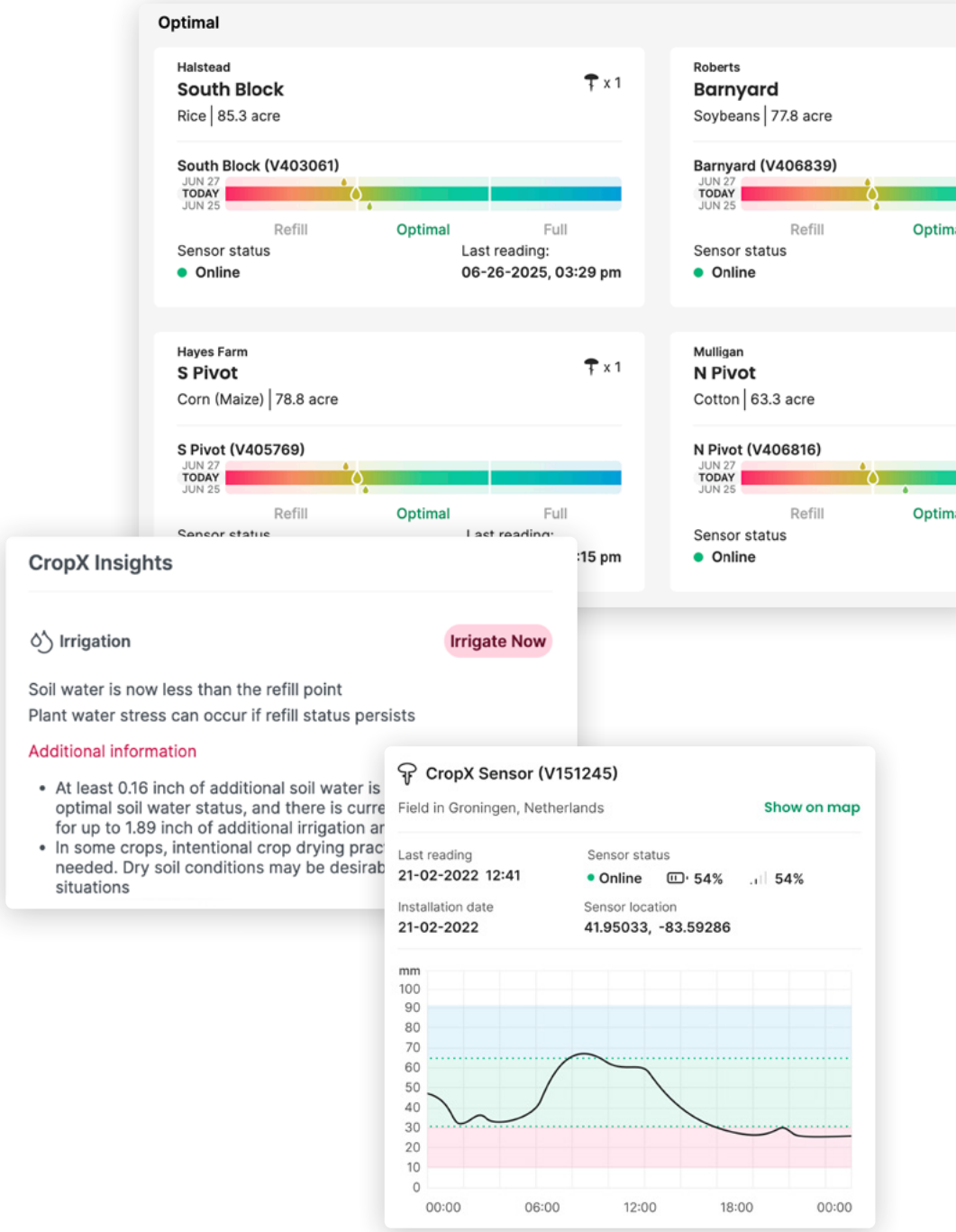


CROPX SOFTWARE

Irrigate with Precision & Confidence

Assess, forecast, and fine-tune irrigation plans

- Works with CropX or third-party soil sensors (Sentek, EnviroPro, Aquacheck)
- Autonomous and continuous field capacity detection and set point calibration
- Per depth and field level moisture status
- Forecast based on crop model (Kc), weather, rainfall and predicted water usage
- Precise, system-specific irrigation recommendations (pivot, drip, sprinkler)



Required Hardware

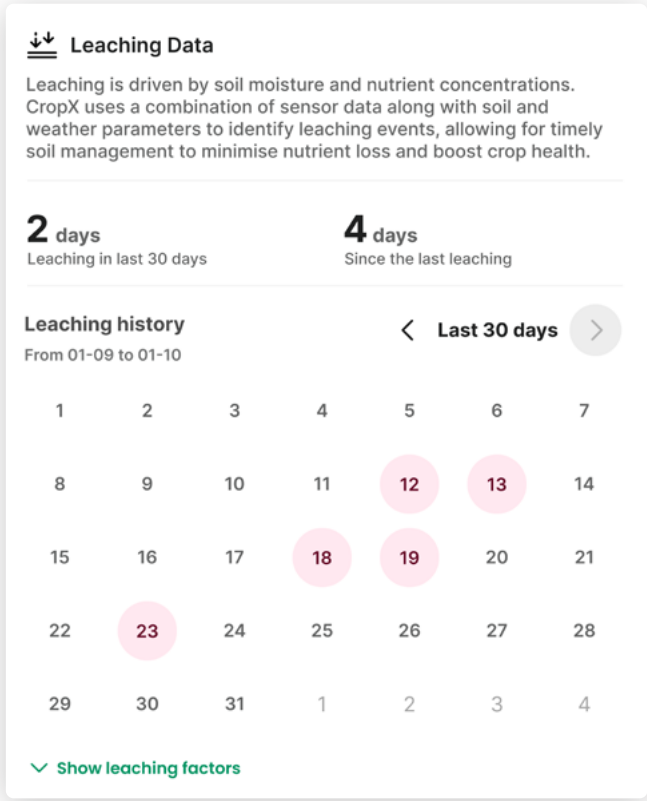
CROPX VERTEX 4 (V4)
All-in-one smart soil sensor

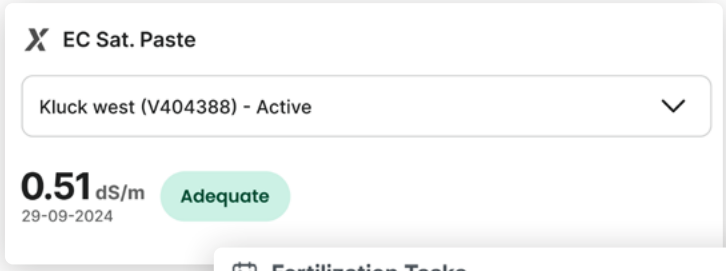
CROPX SOFTWARE

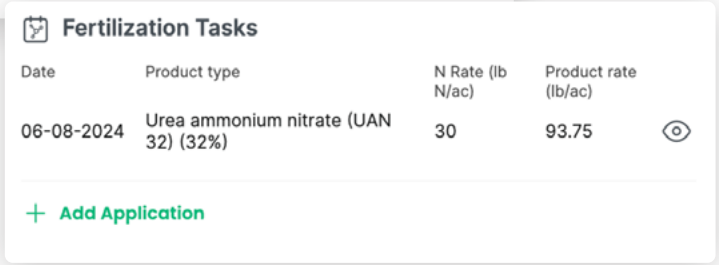
Proactively Detect Leaching Events & Salinity Stress

Continuous monitoring and reporting with **CropX Vertex 4**

- Requires CropX soil sensor (with multi-depth moisture and EC)
- Determination of current soil salinity and stress level as well as crop-specific optimal range (EC saturated paste method)
- Continuous monitoring and reporting of leaching events
- Proactive alerts of over-irrigation or rainfall driven leaching events to adjust irrigation strategy
- Quickly add fertilization tasks to restore lost nutrients







Required Hardware

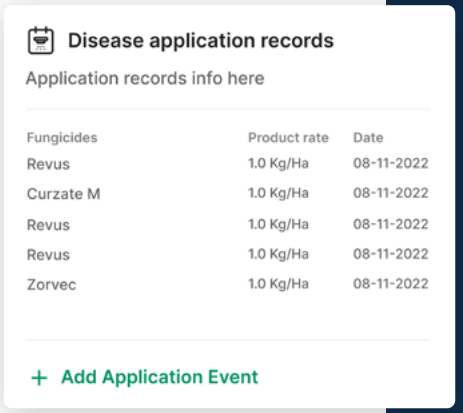
CROPX VERTEX 4 (V4)
All-in-one smart soil sensor

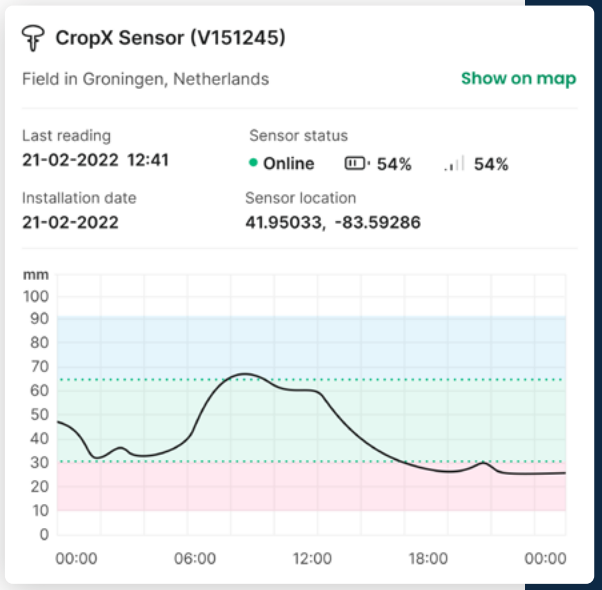
CROPX SOFTWARE

Assess Disease Risk & Protect Your Crops

Disease risk detection and spraying recommendations

- Proprietary disease models in production worldwide and tuned for 15+ years
- Risk detection of over 50 fungal diseases, tested and validated for 10+ years
- No sensor required
- Crop protection product type and optimal spray timing recommendation
- Quickly schedule and send spraying tasks to machines
- Detailed record keeping of products, concentrations and quantities used (including when and where)





Apple
Apple scab

Asparagus
Leaf spot

Beetroot
Remularia leafspot
Beet leafspot

Bell Pepper
Alternaria
Leveillula
Grey mold

Broccoli
Headrot
Downy mildew
White rust

Carrot
Alternaria
Cercospara
Sclerotinia
Powdery mildew

Celery
Septoria

Coriander
Septoria

Corn
Common rot
Grey leaf spot
Northern leaf blight

Endive
White mold

Grapes
Grey mold
Powdery mildew
Downy mildew

Leeks
White tip
Alternaria
Rust

Lemon
Brown rot
Melanose
Black rot
Guignardia

Lettuce
Downy mildew

Onion
Downy mildew
Bortrytis
Neckrot
Purple blotch
White tip
Leaf spot

Peas
Ringspot
Alternaria
White rust/blister
Powdery mildew

Potato
Late blight
Early blight
White mold
Grey mold

Rapeseed
White rot

Strawberry
Blue/grey mold
Powdery mildew

Sunflowers
White mold

Soybean
Asian soybean rust
White mold

Tomato
Late blight
Blue/grey mold
Alternaria

Tulip
Botrytis

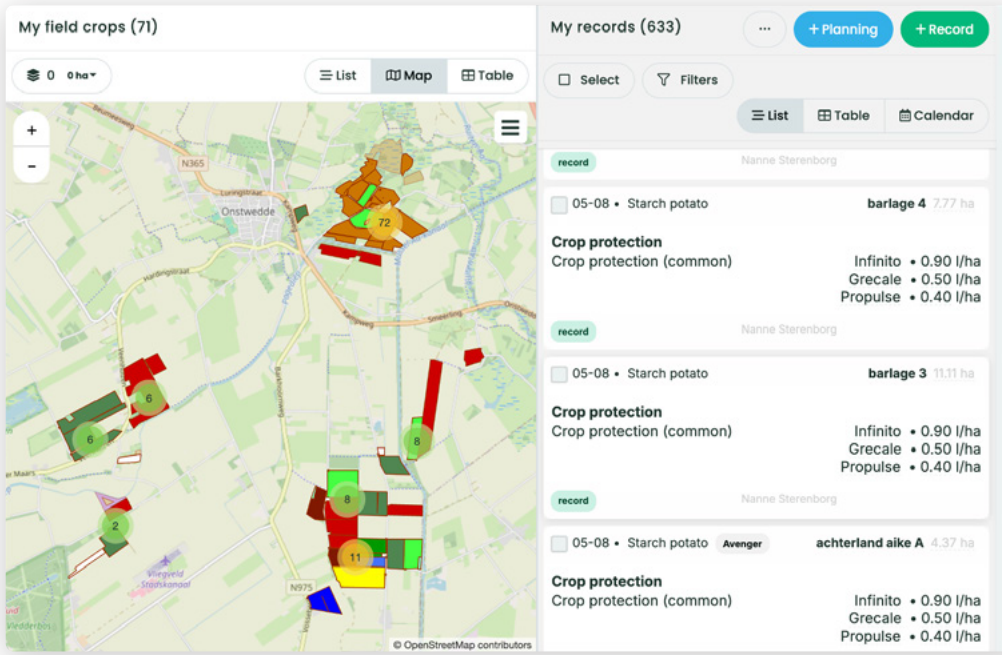
Winter wheat
Septoria tritici blotch

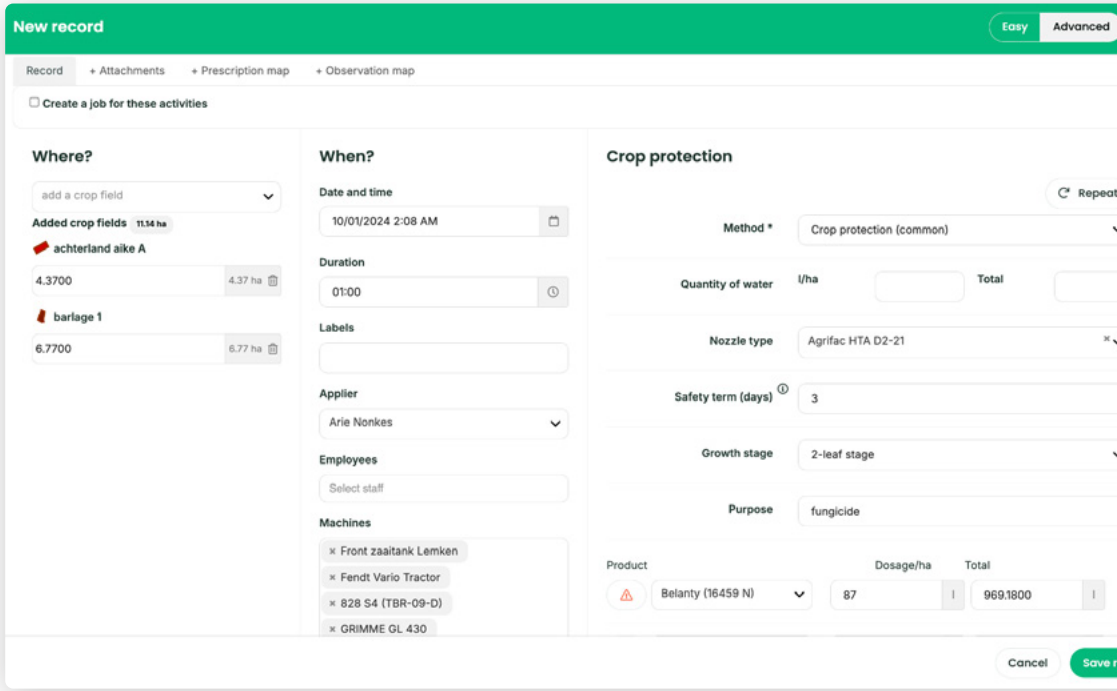
CROPX SOFTWARE

Track & Report Farm Activity in Detail

Holistic farm planning and detailed record keeping

- Plan (and replan) your farm's entire season holistically
- Record every farm activity, with products used, quantities, rates, and costs for regulatory and contractual reporting (e.g. to food processor)
- Allocate tasks to staff members and machines
- Get warnings for non-permitted input use based on extensive database and business rules

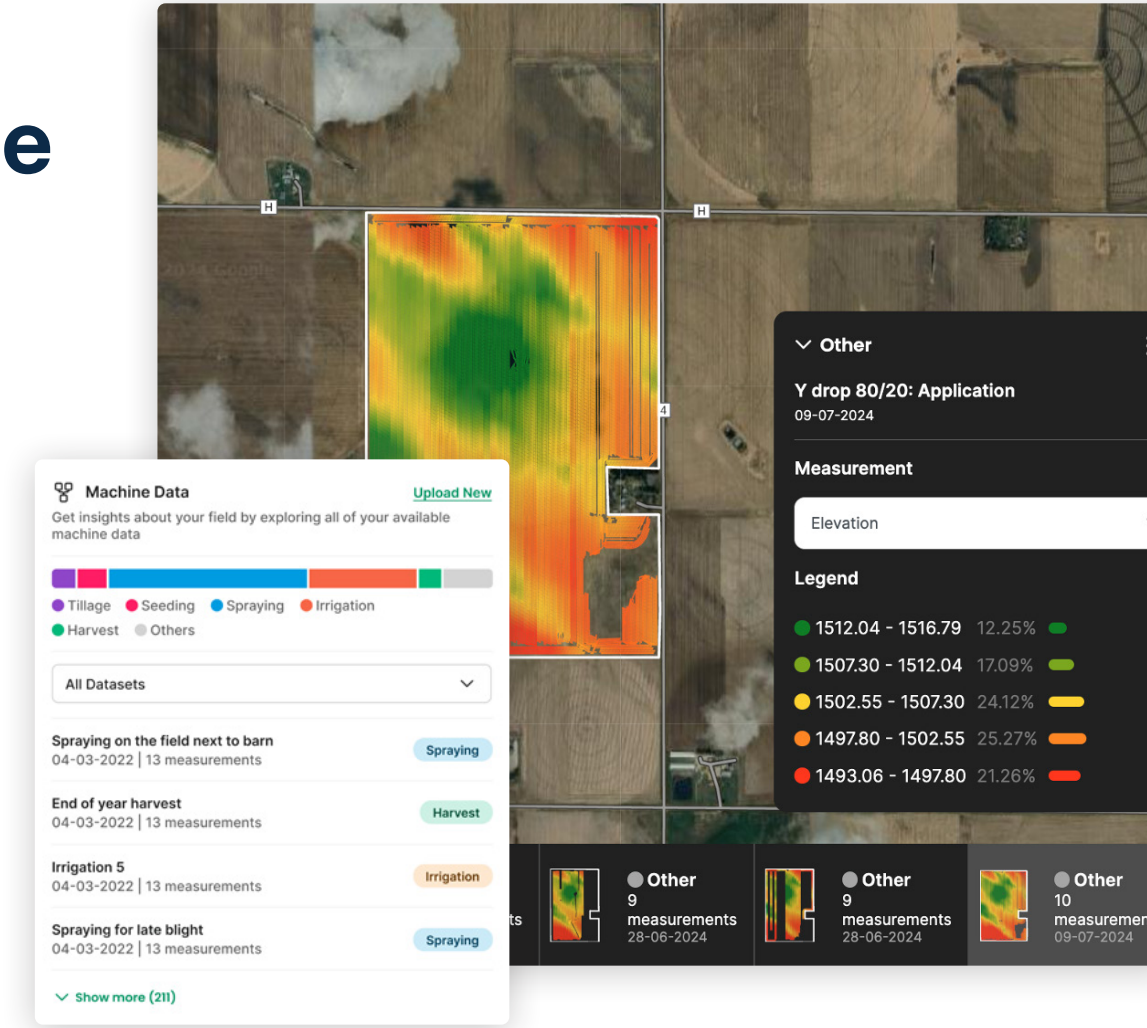




Connect Equipment for Seamless Data Exchange

Data connections with all major farm equipment

- Connect to multiple OEM (original equipment manufacturer) accounts to enable seamless data exchange
- Pull machine data and as-applied events into CropX
- Push tasks and prescription maps (variable rate seeding, spraying, etc.) to machines
- Correlate farm activities to crop outcomes
- Wireless send to John Deere machines
- Native integrations via standard APIs

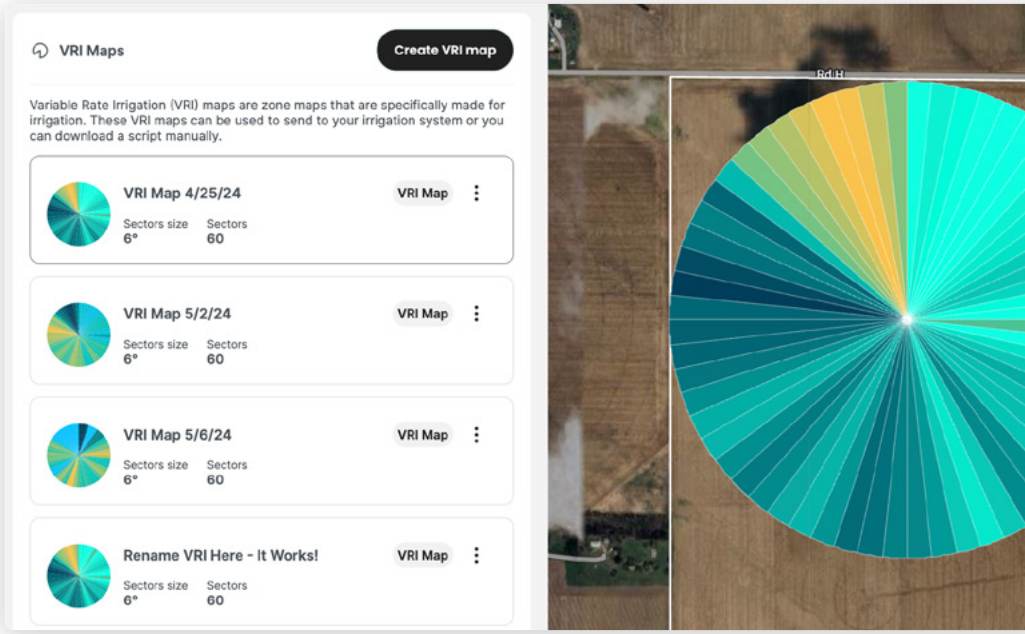


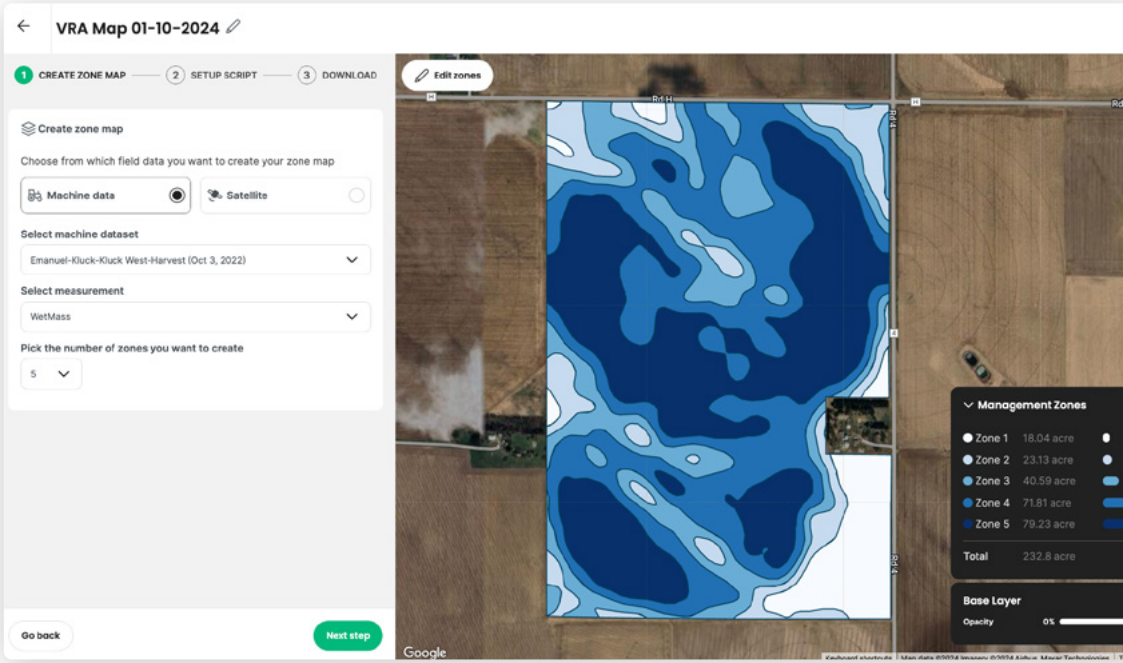
CROPX SOFTWARE

Master Variable Rate Application with Powerful Features

From seeding and fertilization to irrigation and crop protection

- Create management zones and reusable prescription maps based on any common data layer: machine passes, satellite imagery, soil maps, etc.
- Send seamlessly to almost any OEM (original equipment manufacturer) wirelessly or via file transfer
- Use advanced geospatial tools to locate areas of below/above average application within your field, including soil potential maps to pinpoint long-term weak spots



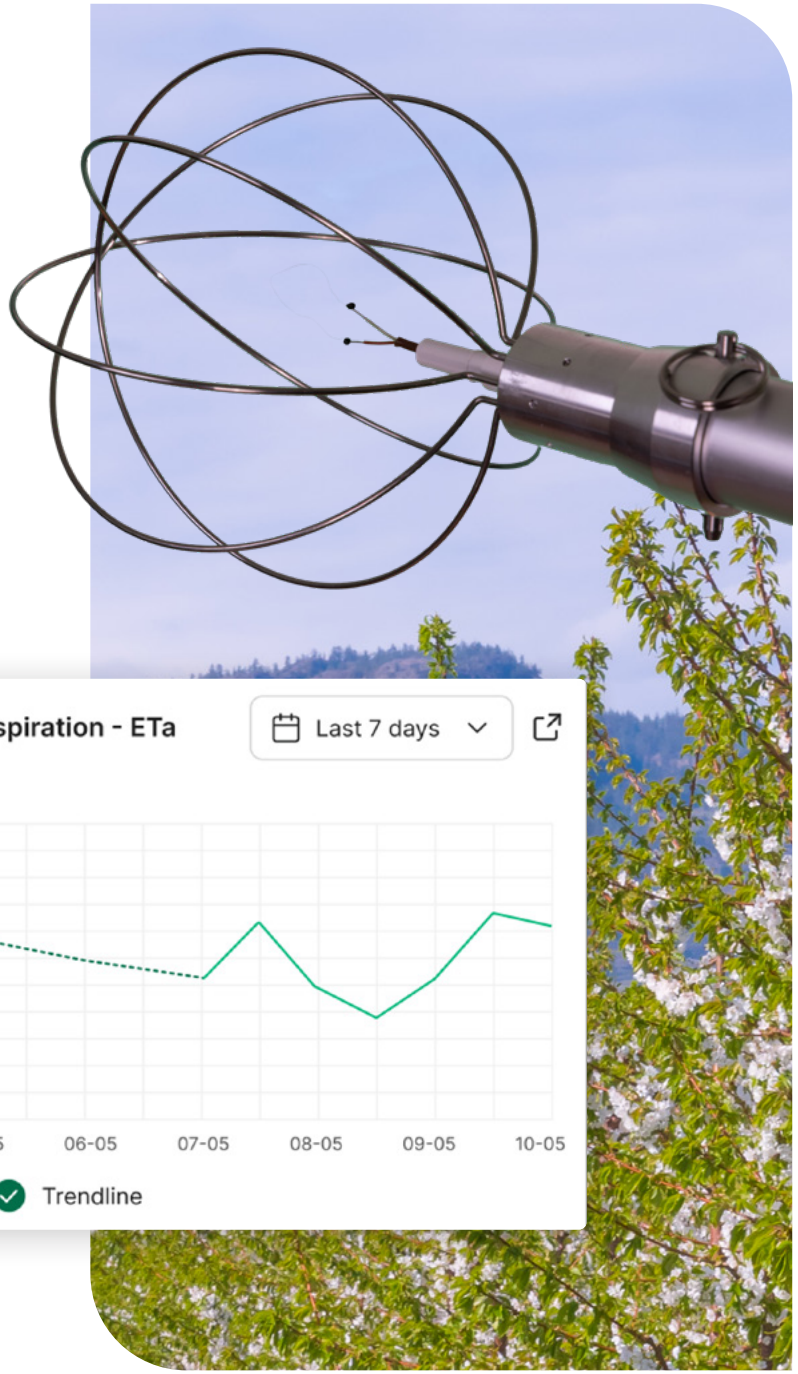


CROPX SOFTWARE

Refine Irrigation Decisions with Real-Time Evapotranspiration

Affordably measure actual ET with **CropX Evato 1 (ET1)**

- World’s first and only solution for direct in-field measurement of actual ET of your crops, at an affordable price
- Track crop water usage, stress, and canopy growth in real time to refine irrigation decision making in late stage development



Required Hardware

CROPX EVATO 1 (ET1)
Actual evapotranspiration sensor

How Banana Growers Stay One Step Ahead of Leaching Events

Banana growers in the Middle East use CropX to manage irrigated and rain-fed banana plantations. In addition to using the CropX system to manage irrigation, users track nitrogen movement in the soil for more precise fertilizer applications to avoid runoff and leaching.

27%
YIELD INCREASE

15%
FERTILIZER SAVINGS

cropx

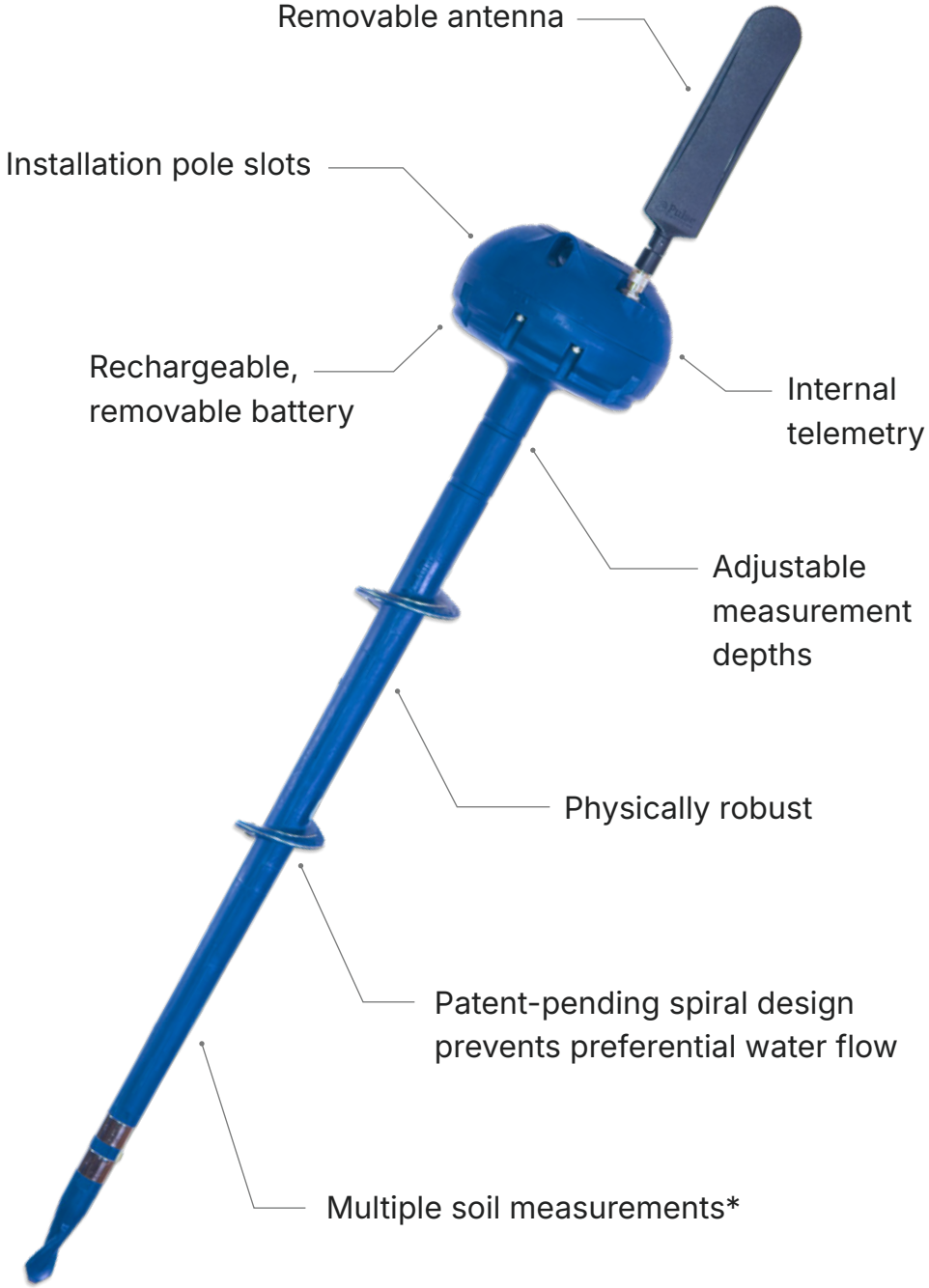
CROPX HARDWARE & SENSORS

CropX Vertex 4 (V4)

All-in-one soil sensor

The **CropX Vertex 4** is a simple, innovative and cost-effective solution for irrigation management and nutrient monitoring across any crop type or irrigation practice.

The predictive soil data captured by the hardware, combined with an industry-leading agronomic software platform, makes the **CropX Vertex 4** part of the most user-friendly, powerful, and effective agronomic farm management platform on the market today.



** 66 centimeters (26 inches) with 3 sensors and virtual sensing every 10 centimeters (4 inches), enabling VWC, EC, and soil temperature measurement at 9 possible depth configurations.*

CROPX VERTEX 4 DATA COLLECTION

Intervals of data measurement and transmission to CropX cloud can be remotely configured and adjusted to each crop's unique needs. Data is geo-tagged based on GPS coordinates creating geospatial time series for all measured data.

MOISTURE

Measurement of volumetric water content (VWC) values via ADR sensors. Moisture values are converted from electric impedance to VWC levels using a proprietary self-calibration method. Moisture values have an accuracy of +/- 0.5% across a range of 0-60% VWC.

TEMPERATURE

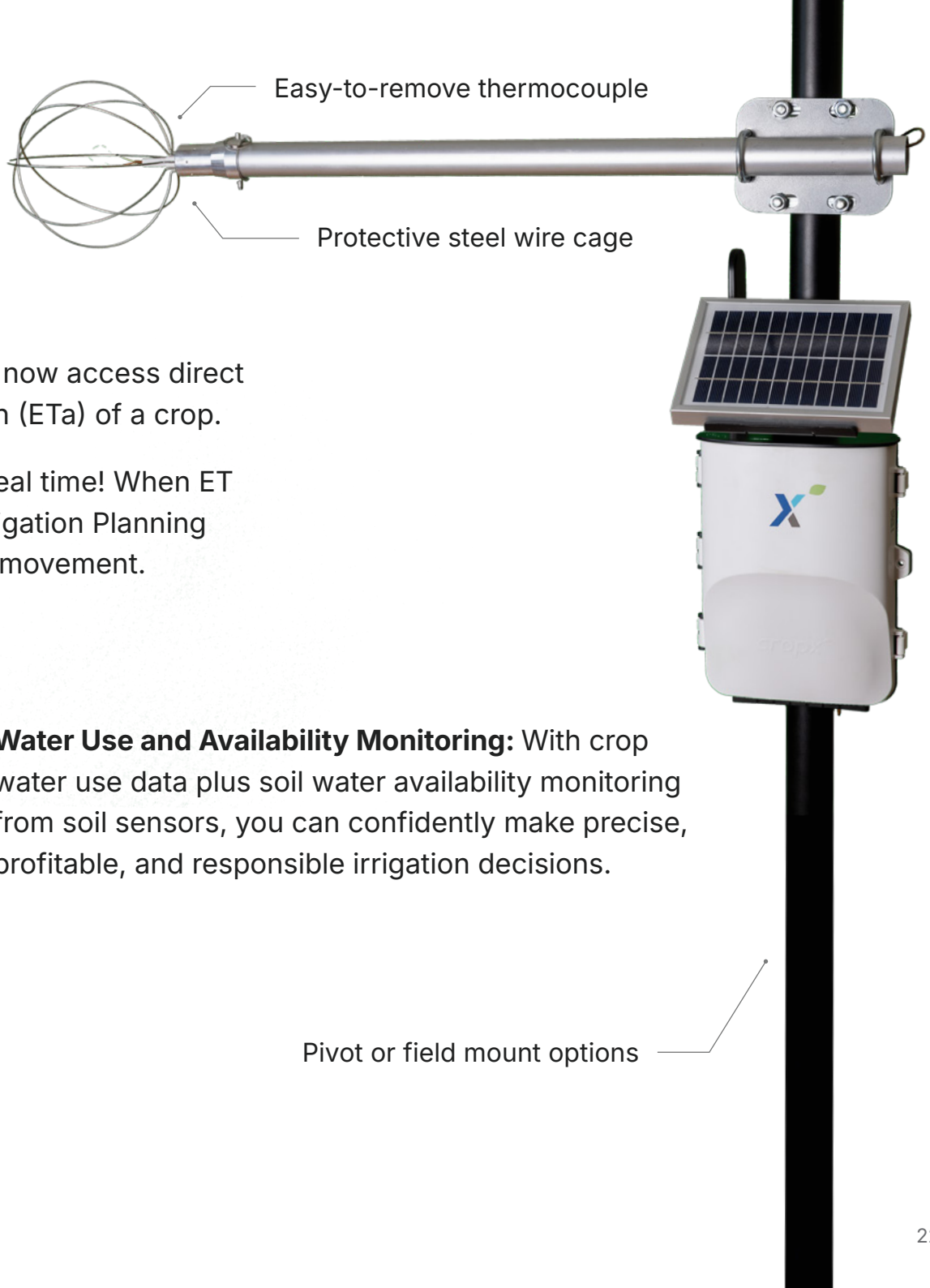
Measurement with an accuracy of +/- 1 °C (+/- 2 °F) (max) and an operating range of -10 °C to 70 °C (14 °F to 158 °F). Each unit also measures the internal temperature of the unit above ground, which can help with increasing the precision of weather data.

ELECTRICAL CONDUCTIVITY (EC)

Measurement in decisiemens/m, with an operating range of 0-5 decisiemens/m (bulk), representing the soil salinity level, which can be used to manage crop salinity regime.

CropX Evato 1 (ET1)

Actual ET sensor



With actual ET data from the **CropX Evato 1,** growers can now access direct measurements to determine the Actual Evapotranspiration (ETa) of a crop.

Track field-specific crop water use over a broad area in real time! When ET sensors and soil sensors are used together, the CropX Irrigation Planning capability offers the most complete picture of field water movement.

CROPX ACTUAL ET PROVIDES:

Actual Evapotranspiration (ETa) data: CropX ET sensors measure and monitor the water use of your crop daily, in real time. ETa is measured over a broad area of your field.

Water Use and Availability Monitoring: With crop water use data plus soil water availability monitoring from soil sensors, you can confidently make precise, profitable, and responsible irrigation decisions.

Additional Required Hardware

CROPX TELEMETRY 2 (TD2)
Field data gateway

NOT ALL ET REPORTS ARE CREATED EQUAL.

Traditionally, growers use imprecise methods like Reference ET, Model ET, and Crop ET to deliver agronomic recommendations. The **CropX Evato 1** uses Actual ET (ETa) to make precise recommendations that drive real results.

MOST ACCURATE

ACTUAL ET (ETa)

The actual water use of a specific field, measured directly in real-time.

MORE ACCURATE

MODEL ET

Uses satellite-based infrared sensing methods to approximate actual ET (ETa) by relating air temperature changes to canopy temperatures. These methods are only accurate when continuously calibrated with Actual ET sensors.

LESS ACCURATE

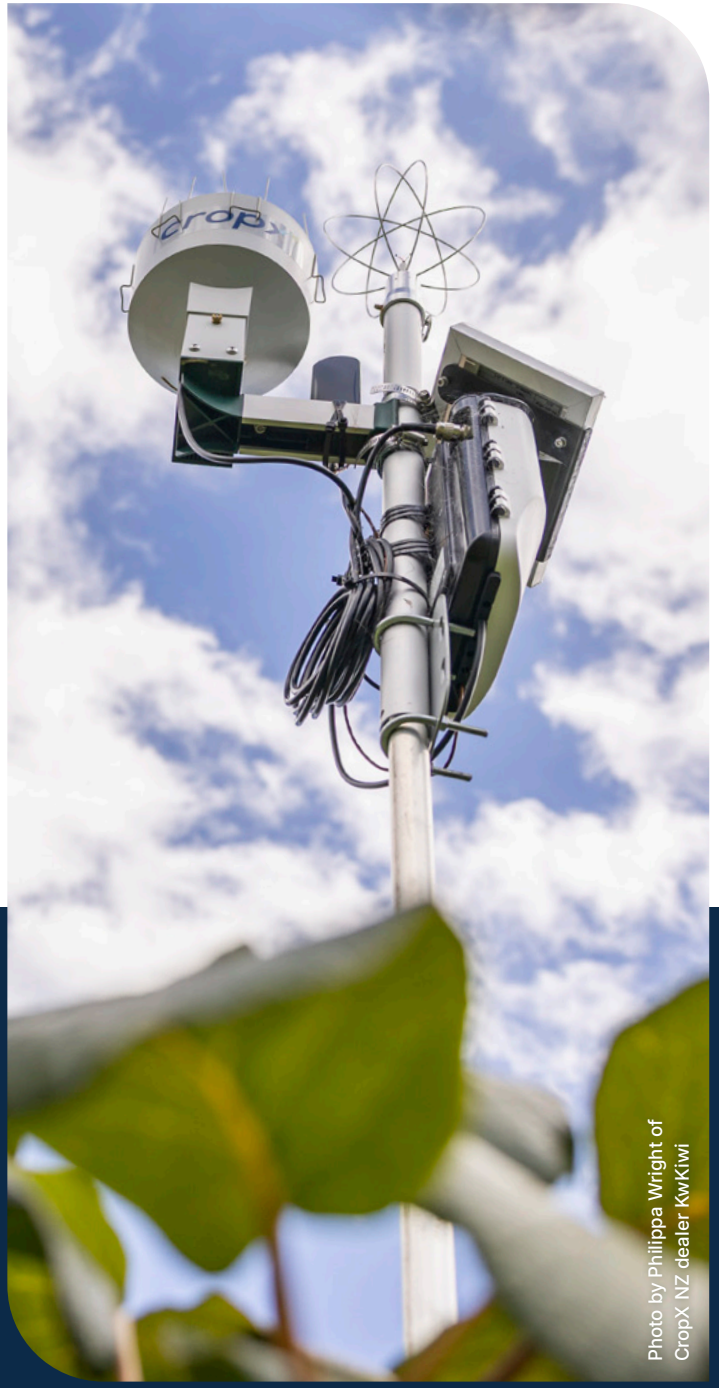
CROP ET (ETc)

ETo multiplied by a crop coefficient (Kc). Used to estimate the water use of a specific crop type that has no water stress.

LEAST ACCURATE

REFERENCE ET (ETo)

The total water use of a well-watered lawn. This information is available through many weather service websites, apps, and radio reports.



CropX Strato 1 (ST1)

All-in-one weather station

The **CropX Strato 1** weather station measures temperature, humidity, wind speed, wind direction, rainfall, and solar radiation to bring cutting-edge precision to your farm, empowering you with real-time hyper-local weather data you can rely on. The all-in-one station comes pre-assembled with all the sensors, power, and connectivity included in a compact package ready to mount.

With high-quality, high-precision components that have been field tested for 10+ years worldwide, we give you peace of mind that your reliable weather station will withstand the harsh elements year after year after year.

An all-inclusive and affordable annual subscription provides seamless integration into the CropX platform and world-class support.

Additional Required Hardware

CROPX TELEMETRY 2 (TD2)
Field data gateway

KEY FEATURES & SPECIFICATIONS

- **Temperature:** -40 °C (-40 °F) to 85 °C (185 °F) range with ±0.2 °C (±0.36 °F) accuracy
- **Humidity:** 0% to 100% range with ±1.8% accuracy
- **Wind Speed:** 0.5 to 45 m/s with ±0.1 m/s accuracy
- **Wind Direction:** 0° to 359° with ±1° RMS at 10 m/s
- **Rainfall:** 0.2 mm per spoon tip with ±2% accuracy tip
- **Solar radiation:** derived from DTN satellite service
- **Measurement interval:** every 5 to 15 min (configurable)
- **Upload interval:** every 15 to 60 min (configurable)
- **Connectivity:** Includes CropX Telemetry device with cellular connection
- **Power:** Rechargeable, replaceable Li-ion battery with solar panel for continuous wireless operation

SIMPLE 4-STEP INSTALLATION PROCESS

STEP 1

Install Pole

Place the pole in the ground at a height of 2 meters or 6.5 feet for optimal performance and accurate weather data.

STEP 2

Mount Strato 1

Use the included clamps to firmly attach the **CropX Strato 1** to the pole, ensuring it stays in place, regardless of the weather.

STEP 3

Attach Rain Gauge

Simply pop on the rain gauge cone. No extra tools required!

STEP 4

Scan QR Code

Scan the QR code on the **CropX Strato 1** to link the weather station to your CropX farm and fields. You're all set!

CropX Rivo 1 (RG1)

Rain gauge

The CropX Rivo 1 connects rainfall data to the CropX agronomic farm management platform via the **CropX Telemetry 2 (TD2)** device. This combination provides users with a cost effective solution for increasing data connectivity and generating agronomic insights. Knowing the exact rainfall helps you make data-based decisions at the field level.

The **CropX Rivo 1** is easy to install and activate. It features a season-long* battery life and can be fitted with an optional solar panel for year-round operation. In addition, it allows for connecting to a wide range of supplemental sensors.

Dimensions:
17 × 26 centimeters
(6.5 × 10 inches)

Weight: 0.38 kilograms
(13.4 ounces)

Tipping spoon rain gauge
with self-emptying bucket

Includes rain cone
and bird spikes

Additional Required Hardware

CROPX TELEMETRY 2 (TD2)
Field data gateway

** Depending on crop/season length and configured communication interval*

CropX Telemetry 2 (TD2)

Field data gateway

The **CropX Telemetry 2** lets customers connect CropX sensors with the powerful CropX solution. It also allows customers to connect with third-party sensors, including a variety of soil moisture sensors and rain gauges.

Data collected from connected devices is fed into the CropX system, allowing users to access data visualizations and agronomic advice from their desktop or mobile devices.

CROPX TD2 CONNECTIONS

Each CropX telemetry device has two SDI-12, two pulse and one current loop (4-20 mA) input(s) available to connect the following devices:

SOIL SENSORS	RAIN GAUGES	OTHER DEVICES
Sentek	CropX	Flow meter
EnviroPro	Davis	Effluent pond level meter
Aquacheck		Pump switch

Keeping a Sensitive Crop in Balance, Worldwide

Growers across 3 continents used the irrigation and nutrition management capabilities of CropX to manage sugarcane, which is highly sensitive to both under- and over-watering. Nitrogen management is critical as well, to avoid leaching and soil build up.

70%
AVERAGE YIELD INCREASE

GLOBAL
PROFIT DRIVER ACROSS SOUTH AMERICA, AFRICA, AND AUSTRALIA

3 STEPS TO PRECISE, POWERFUL INSIGHTS

Whether you're managing 20 farms or just one, getting set up on the CropX platform hardly requires lifting a finger. **Here's how to do it:**

STEP 1

Get the App & Create a CropX Account

Download the CropX app from your device's app store, then create a CropX account from the app's home screen.

STEP 2

Set Up Your Fields within the CropX App

Quickly and easily create your field(s) in the CropX app. You'll start seeing satellite imagery and other data almost immediately.

STEP 3

Install Sensors & Connect to Farm Machines

Deepen the insights available to you in the app by installing CropX sensors and connecting to other farm machinery.

CONTACT DETAILS

CROPX SUPPORT IS JUST A CALL AWAY

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