

FarmTRX™

KNOW MORE - GROW MORE

RETROFIT YIELD MONITOR & AUTOMATED YIELD MAPS



EASY, AFFORDABLE, AUTOMATIC

WWW.FARMTRX.COM

FarmTRX™

RETROFIT YIELD MONITOR
& AUTOMATED YIELD MAPS

**Easy,
Affordable,
Automatic**

100 - 30,000+ Acre Farms
Any Age, Make, Model Combine
Single or Multiple Combines

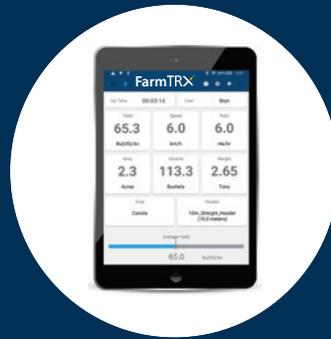


Designed by farmers, for farmers.

At FarmTRX, we listen to what farmers and agronomists say about most yield monitors: they're expensive, complicated and difficult to retrieve data from. When done, you are still left with complicated and time-consuming tasks before the yield data is usable. Many farmers are still not using yield monitors (even if installed), despite the significant value yield data provides to running a profitable farm.



FarmTRX™
Retrofit Hardware



FarmTRX™
Mobile App



FarmTRX™
Web App

The FarmTRX Story:

Farmer and Technologist Perry Casson had three combines on his farm without yield monitors but he wanted to collect yield data from his fields. He had begun variable rate trials and wanted a way to measure the outcomes of these trials. After searching the market to retrofit his older model harvesters with a retrofit yield monitor, he was disappointed with the high prices for outdated technology. 4 years ago Perry built the first FarmTRX prototype in Medstead, SK. Soon after building his prototype he garnered interest from local farmers and agronomists who were looking for exactly what he had invented – an easily installed, affordable Yield Monitor that was easy to use. Three harvest cycles later, the technology, hardware components and software have evolved significantly in collaboration with Troo Corp providing a powerful web mapping platform. Made in North America. FarmTRX is proud to build and assemble our Yield Monitors at a Canadian owned and operated manufacturer locally in Elbow, Saskatchewan. Our manufacturing partner creates local jobs and produces high-quality product that we are proud of.

It All Works Together.



FarmTRX™
Retrofit Hardware



FarmTRX™
Mobile App



FarmTRX™
Web App

FarmTRX is a complete system that has been designed to work together seamlessly.

The retrofit hardware kit allows any combine to create yield maps, regardless of its age, make, or model. The mobile app acts as an in-cab display, showing live yield data when wirelessly connected to the yield monitor. The mobile app also makes data transfer easy by wirelessly uploading yield data over cellular or Wi-Fi - no more pulling SD cards. Finally, the FarmTRX Web App automatically creates your yield maps just minutes after upload. We save you countless hours of work and technical challenges by automatically cleaning, filtering, processing, and calibrating yield data to make the best yield maps possible - ready when you need them.



**Affordable
Price-Point**



**User
Installed**



**Simple To
Operate**



**Easy
Wireless Upload**



**Automatic
Yield Maps**

Easy to install/retrofit on any combine (1-4 hrs)

Automatic data acquisition. When the combine's on, it's on

Affordable by using your smartphone/tablet as a display

Easy, automatic, wireless upload of yield data via FarmTRX Mobile App

Negates the need for any technical, complicated or time-consuming work to create usable yield maps.

Automatic cleaning, filtering, calibration and processing of yield data **saves countless hours of work**



FarmTRX Yield Monitor: Logs yield data and stores it for 5+ years. Bluetooth connection for pairing with mobile devices.

Optical Yield Sensors: Mounts on clean grain elevator; measures height of grain on each passing paddle. More durable/reliable than impact-plate style sensors.

Wiring: All necessary wiring harnesses to power and transfer data from sensors to the yield monitor.

GPS Antenna: External GPS antenna included for higher resolution.

Upgradeable with moisture sensor in Q2 2019.

Quick & Easy Install on **Any Combine.**

Any Combine, Any Colour

The FarmTRX Yield Monitor can be user-installed on ANY combine with a clean grain elevator and 12 Volt power using common tools in under 4 hours, with many installs taking less than 2 hours.

Compatible combines: Case, John Deere, New Holland, Gleaner, Claas, and many more...



"The install took less than an hour. It was all very straightforward. Overall this kit installed with ease that would make you question how it was not tailor made for your combine." - Joe Gordon - FarmTRX User

Future Product Roadmap.

Q2 2019 - iOS Mobile App

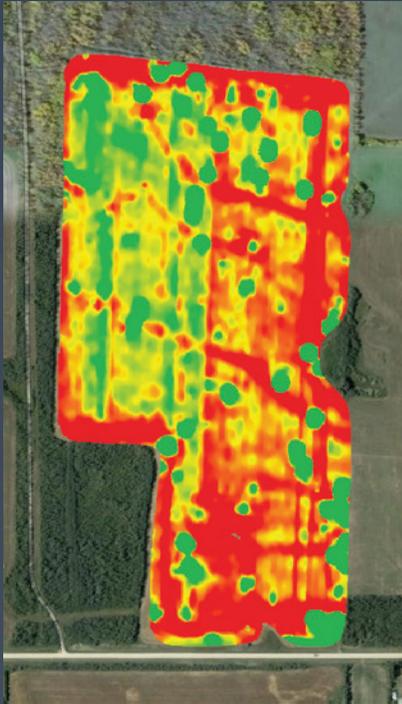
Q3 2019 - Moisture Sensor

Q1 2020 - Version 2.0 RTK Precision Yield Monitor

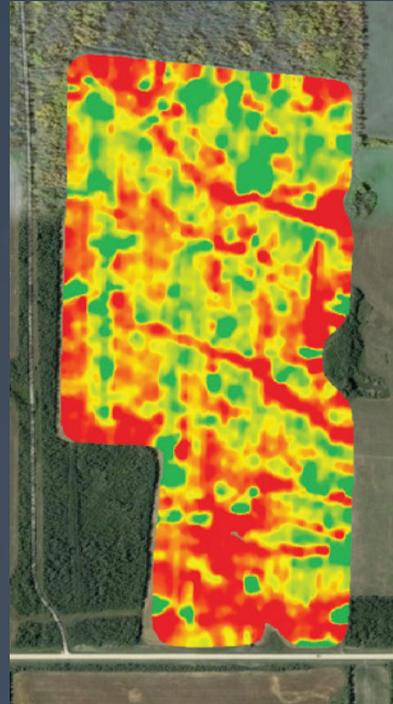
Q3 2020 - Upgraded Sensor Platform

FarmTRX Results & Examples

Case Study 1: Automatic multi-combine calibration and partial-row deletion.



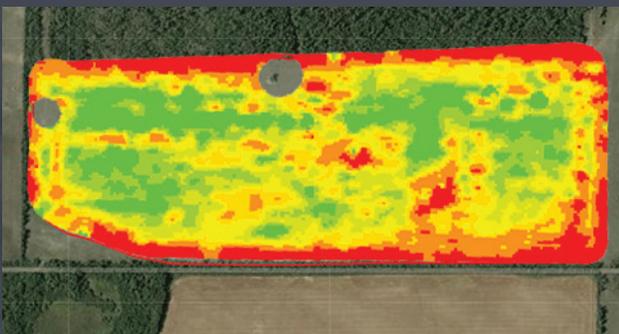
Raw Yield Map



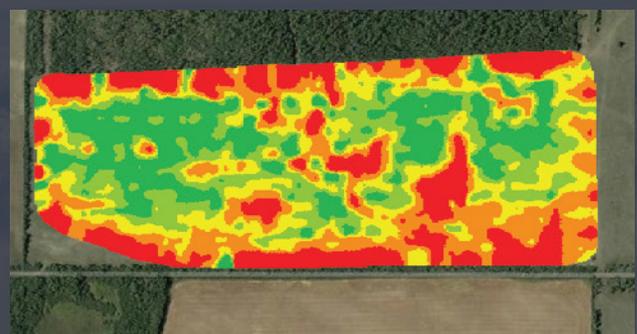
Automatic Calibration / Correction

This example shows the difference between raw yield data and an automatically-corrected yield map. The FarmTRX web app automatically detects and corrects the miscalibration between multiple combines as well as partial swath artefacts.

Case Study 2: Factory Installed Deflector-Plate Yield Monitor vs. FarmTRX Yield Monitor



Deflector Plate Yield Monitor



FarmTRX Yield Monitor

This example shows the same field harvested with one combine using two yield monitors simultaneously. The results show the amount of detail picked up by each system.





Intuitive & Easy to Use - So Farmers Can Focus on Farming

The FarmTRX mobile app is designed to display real-time harvest data in cab, and allows farmers to easily upload harvest data. It is excellent for those who want to see live yield data, or for those who want to harvest without using the mobile app (since data is recorded regardless). The mobile app wirelessly connects to the yield monitor via Bluetooth, and allows growers to easily upload their yield to the FarmTRX Web app.

See What's Important

Designed with farmers in mind. See your live yield data in real-time. Quickly calibrate new crops in just minutes and change harvest settings on the fly.

Data is **Always** Being Captured

Yield data is recorded whether the mobile app is connected or not. When the combine's on, it's on. Collect data while anyone is harvesting, whether they use the mobile app or not.

Data is **Uploaded** Wirelessly

After harvesting, your phone/tablet wirelessly uploads yield data from the mobile app to the web app over cellular or Wi-fi – no memory cards required. Your yield maps will be ready as soon as you go on-line.

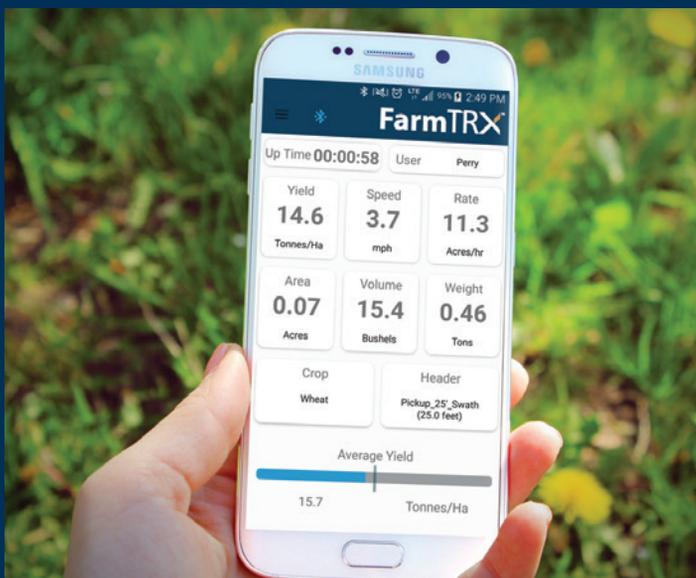
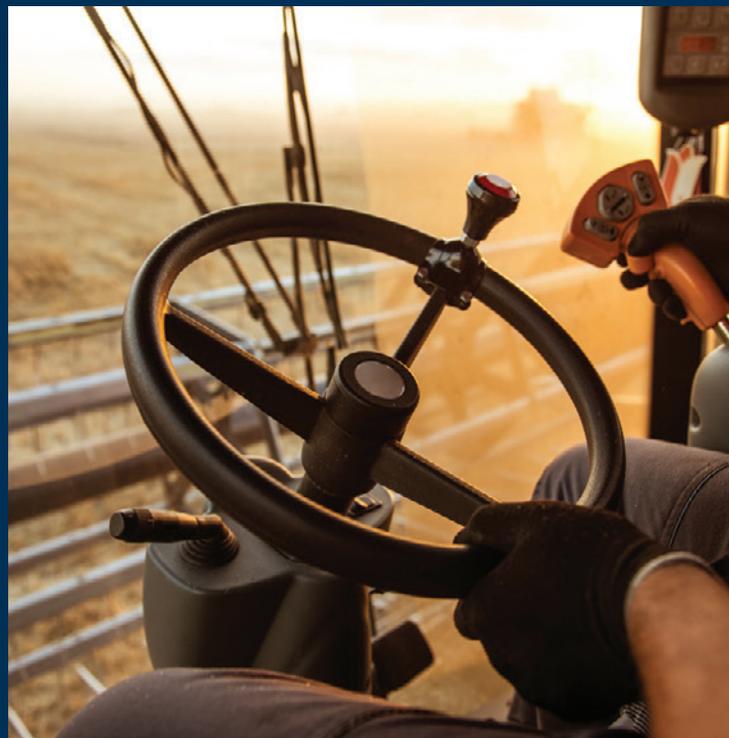


Harvest Time is Go Time, You Need it to Just Work

Simple Setup & Operation

Another reason farmers aren't using yield monitors is the amount of time required to set-up before/during harvest; selecting the correct field, lengthy calibration processes and cleaning the yield monitor sensors. With FarmTRX we've made it simple. You can begin harvesting without any setup, there's no need to select which yield you're in, the monitor is always recording and yield data can be corrected after harvest.

Whoever is harvesting isn't tech savvy? No problem. Even if you don't use the mobile app while harvesting you can still upload all your files later and correct the data online. Using the web app you can enter the actual values (total yield, crop) for your field and re-generate your yield maps.



No More Chasing Down Yield Data

Many farmers currently have yield monitors but don't use the data because it's too complicated to extract and upload. This often leaves farmers frustrated and agronomists wasting time driving for hours to manually pull yield data off the combines themselves (if it was even collected at all). Wirelessly uploading data with FarmTRX is simple, so growers and their advisors can more easily reap the benefits of having yield data.



Yield data is collected from your combine



Live yield data via **Bluetooth** to iOS/Android



Wireless **upload** to the cloud from your mobile device



Yield Maps Are **Automatically** Generated



Easily **shared** with your agronomist



An Intuitive Web Platform Built for Farmers and Agronomists

FarmTRX Saves Countless Hours of Work by Automating Tedious & Difficult Processes Required to Produce Quality Yield Maps.

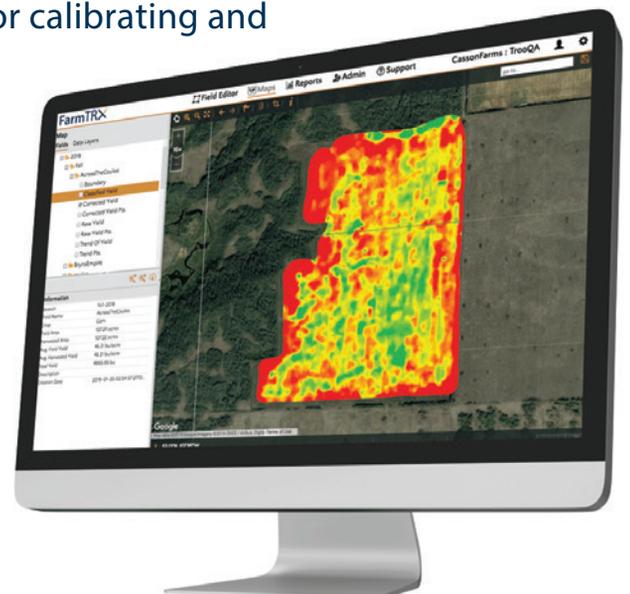
With previous yield monitor and mapping systems, collecting yield data was only half the battle. Farmers and agronomists had to endure hours of work to clean, filter, process, and re-calibrate yield data before it could be used to produce a yield map. The FarmTRX Web app automates these processes.

Yield Data - Automatically Cleaned, Filtered, Calibrated, Processed

No need to worry about perfectly calibrating while harvesting. Farmers can simply focus on the task at hand, knowing their data will be automatically cleaned, filtered, calibrated and processed by the web app. This is especially useful for calibrating and normalizing data from multiple combines to eliminate “striping” patterns.

Your Data - Secure & Accessible

Yield data is farmer owned - period. We don't sell your yield data. Our cloud-based web app lets you access your yield data anytime, anywhere with internet access. Our partner web app portal enables easy management of multiple farms simultaneously to everyone's benefit.



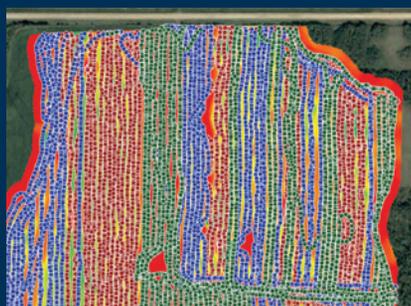
FarmTRX Partners with Trusted Advisors



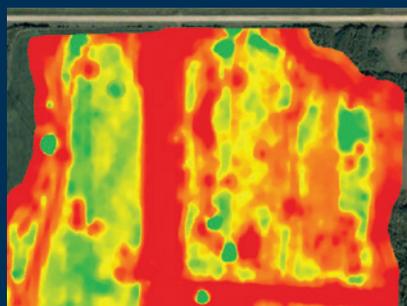
"We've got one farmer with 5 combines (with factory installed yield monitors)... It took me the whole afternoon to calibrate them. Now with FarmTRX we can do post-calibration - we don't have to do that anymore... That tool, I would say, is industry leading."

Bennie Dunhin - Agronomy Manager - Cavalier Agrow

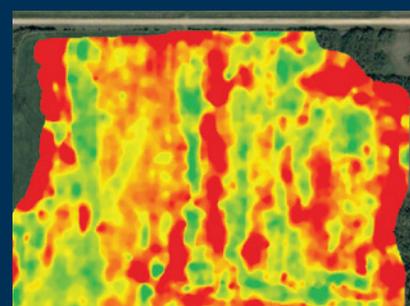
Automatic Calibration for Multiple Combines:



Multi Combine Raw Points



Raw Yield Map



Automatically Calibrated

Industry Leading Multi-Combine Calibration

Typically yield maps from fields with multiple combines have always had visible "striping" patterns. Attempting to correct these patterns in other agronomy tools is a time-intensive and inaccurate process. FarmTRX has addressed this by creating the most powerful, automatic, multi-combine calibration tool. This tool re-calibrates in a way that would be impossible to do manually - eliminating any multi-combine calibration issues.

One Data Format Across All Makes & Models

No longer do you need to worry about managing different data formats from different combine manufacturers. FarmTRX exports yield data quickly and easily in a variety of open data formats that are compatible with most farm management/agronomic software packages.

Designed for Big Farms & Small Farms



"A lot of people with smaller acreage could really use yield data... This system is one a lot of smaller farms could get a return on"

Joe Gordon - Custom Farmer - FarmTRX User

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Authorized Reseller: **Oria Agriculture**
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