

Grain and Commodity Crop Yield Monitoring

Harvest



Yield Monitoring measures crop performance to aid better decisions throughout the crop cycle

Real-time, position-based yield monitoring, mapping and logging including moisture data

Proven hardware including sensors, controllers, consoles and receivers

Proprietary operating software with live mapping (Horizon OS)

Universal display compatibility (ISO-UT Compatibility)

Industry standard ISOXML and shape file data formats for export

Digital farm management integration (TAP) for seamless upload and analysis

Suite of complementary Topcon solutions

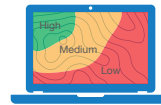


Horizon OS

Topcon Agriculture Platform (TAP)

Yield monitoring measures crop performance for insights that can be applied across the crop cycle to reduce inputs and increase production. Our solution offers position-based data that supports targeted management, input optimization and tracking.

The technology allows farmers to fine-tune strategies. Identify high or low-performing areas, optimize appropriate inputs, and track adjustments at the end of the season.



Target Areas



Optimize Inputs



Track Adjustments

How Does It Work?

Our solution works with many combines for grain and commodity crops such as corn, soybeans, wheat, and sorghum. Directed by the Topcon YM-3 controller, it integrates non-contact optical sensors and a moisture sensor to calculate yield and moisture content, which is displayed through Topcon X Series or ISO-UT compatible consoles. Precise position information is coordinated through a Topcon satellite GNSS receiver or an ISOBUS compatible alternative. Captured yield data can easily be exported to our data management platform (TAP) or in standard industry formats for analysis and optimization.

Featuring

- Exclusive mapping layers via Horizon OS
- Terrain compensation
- Automatic header width control (16 sections)

Solution Overview



1



Console / Interface

Topcon X Series or ISO-UT Compatible console as interface

2



Controller

YM-3 controller to direct the system

3



Optical Sensors

Measures volume, converted to weight

4



Moisture Sensor

Measures moisture content

5



GNSS Receiver

Provides precise position-data

Compatibility and Integration Information

Available as a retrofit or factory integrated solution that can be installed on most combine machines on the market, including:

- Case IH
- New Holland
- John Deere
- Laverda
- Deutz-Fahr
- CLAAS
- AGCO



Complementary Solutions



Data Management Platform

Easily organize data, visualize and make relevant decisions with the Topcon Agriculture Platform (TAP).



Data Transfer Devices

Seamlessly transfer data from Topcon X Series and many third party consoles to the Topcon Agriculture Platform (TAP).



Guidance and Steering

Proven manual and automatic steering for many machines.



Harvest Cart Weighing

Weight verified, geo-referenced data that can be automatically uploaded to TAP when combined with a CL-55 data transfer device.

Use Case

Tuning Wheat Performance in Choteau, Montana, USA



Scan to watch the testimonial



Doug Weist, an innovative dealer and farmer in Choteau, Montana, USA has been at the forefront of precision agriculture technology for years. He explains that by integrating Topcon yield monitoring into his combine, he can understand performance in real time and utilize the data across other key phases of the cycle, including seeding and spraying.

Through accurate harvest data, Doug feels confident dividing his field into zones, soil sampling, and creating tailored nutrient management plans. Coupled with variable rate control technology, he's realized a 15-25% reduction in fertilizer and a 10-20% increase in yield.



Reduced Fertilizer
15-25%



Increased Yield
10-20%



Applied Data
to Seeding



Applied Data
to Spraying



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