

SWAT RECORDS

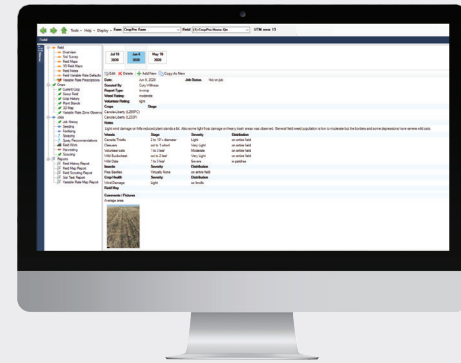
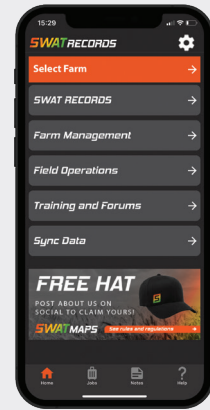
SWAT RECORDS is the software that runs the entire SWAT Ecosystem. SWAT RECORDS mobile application is free of charge to all farmers and is available on the App Store and Google Play Store. The desktop software includes our best-in-class variable rate prescription report generation, 3D map creation and more!

Key Functions (app):

- SWAT-Related Files & Functionality
- Farm Record-Keeping
- Remote Synchronization
- View Multiple Fields at Once
- Record Farm Data
- Detailed Field Operations

Key Functions (desktop):

- SWAT MAPS Variable Rate Module
- Crop Scouting Module
- Create Reports
- SWAT WATER Module
- All Key App functions



Download the **FREE** SWAT RECORDS app today!



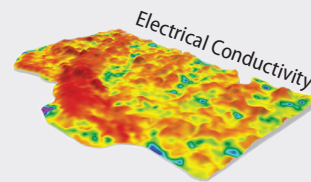
SWAT MAPS

What are SWAT MAPS?

Soil, Water, and Topography MAPS are high resolution soil foundation maps used to execute variable rate fertilizer, seed, soil amendment, herbicide, and precision water management. They are built using the trademarked and patented process.

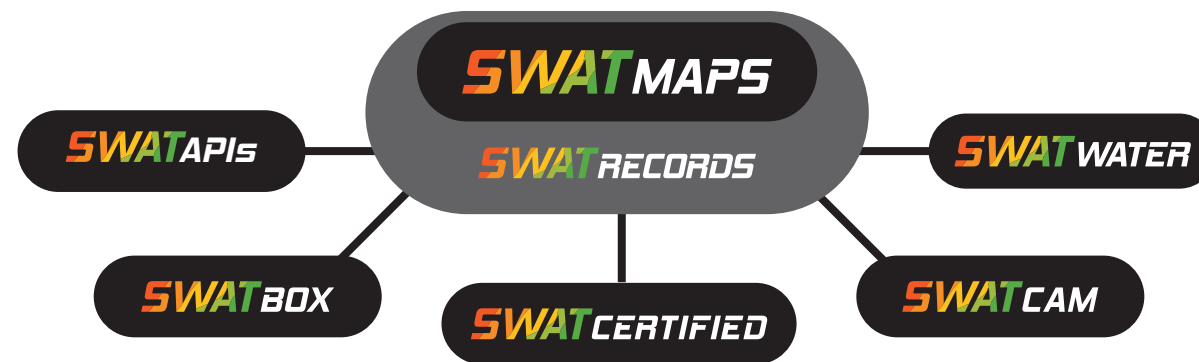
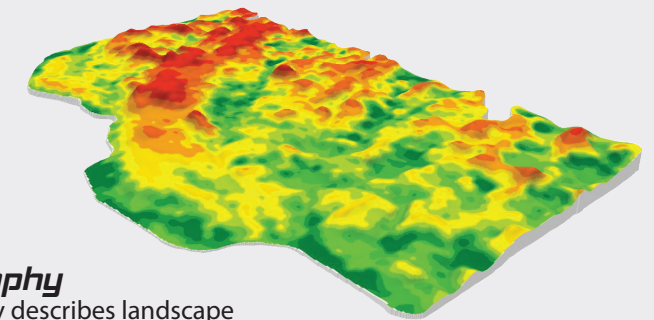
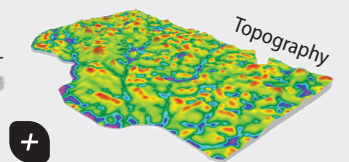
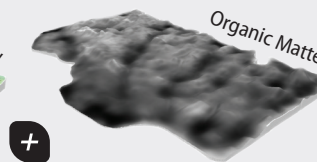
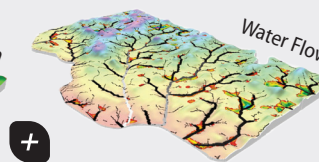
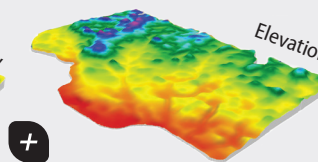
Soil

Factors such as soil texture, soil organic matter levels, topsoil depth, and salinity all impact yield and fertilizer response.



Water

Water has the most profound influence on yield and fertilizer response. SWAT MAPS delineate dry versus wet areas of the field.

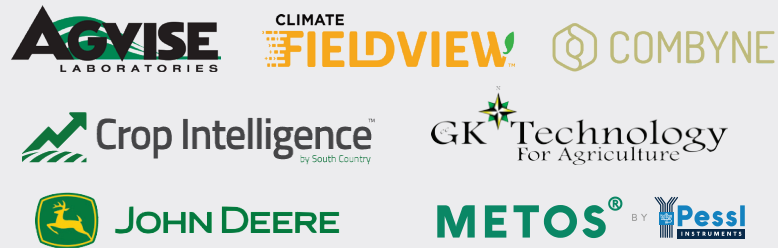


The Zones

- 1 Eroded knolls, hills, sands, lowest organic matter, dry
- 2 Shoulder slopes, upper slopes, water runs off
- 3 Mid-slopes, flat areas, field average
- 4 Toe slopes, lower flat
- 5 Depressions, saline areas, clay, peat/muck, high organic, wet

Software Connections (APIs)

SWAT RECORDS integrates with the following partners and software. Share your SWAT MAPS, SWAT WATER maps, flow paths and more.



SWAT BOX

The SWAT BOX is an autonomous soil electrical conductivity and soil mapping hardware system. The SWAT BOX collects the data used to create SWAT MAPS and was designed to fit our system requirements and meet our high quality data needs.

Features:

- Ready out-of-the-box hardware
- Collect the data needed to create SWAT Maps
- The most accurate soil mapping on the market
- Mountable to a wide variety of farm equipment
- Data automatically uploads to SWAT Records
- Watch incoming data directly on your phone
- Wireless data transmission
- Only 12volts needed to run the SWAT Box



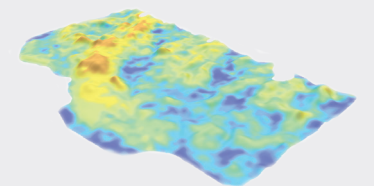
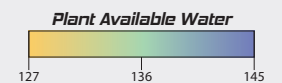
SWAT CERTIFIED

SWAT CERTIFIED is our new elite designation. For Partners, it's a symbol of your knowledge and expertise in precision agriculture. They have successfully completed the required SWAT ACADEMY training.

For farmers, it recognizes their commitment to environmental stewardship and helps reward them when marketing their crops to buyers. Learn more at swatmaps.com/swat-certified.

SWAT WATER

Using SWAT MAPS as the base layer, SWAT WATER adds detailed texture and soil moisture sensor data, to create a spatial soil water map. SWAT WATER calculates volumetric water content, plant available water, and days to stress point at different areas of the field.



SWAT CAM

A machine learning camera mounted to a sprayer to create high resolution weed and crop maps. (Coming in 2022)

Discover the world's best soil based variable rate field mapping system.

Unlock Your Soil Potential with the SWAT Ecosystem



The SWAT MAPS Process

1 Data Collection & Layer Development
A SWAT MAP is created by combining soil, water, and topography layers of data into a single high-definition map. The data is collected using the patented SWAT BOX and is automatically uploaded to SWAT RECORDS.

2 Ground Truthing
Several potential SWAT MAPS are created and uploaded in SWAT RECORDS. The SWAT MAPS are then ground-truthed by a SWAT CERTIFIED agronomist. This process is essential to ensure the SWAT MAP accurately depicts the soil, water and topographical variability in the field.

3 Soil Sampling
Once the SWAT MAP is ground-truthed, it can be soil sampled by zone. Typically, 5 out of 10 SWAT zones are sampled to reflect the soil and nutrient variability. This depends on the field, end goal, and cost vs. benefit of sampling intensity.

4 Report & Prescriptions
The next step in the process is variable rate prescriptions for seed, fertilizer, or soil-applied herbicides using the SWAT MAP and soil test results. This is where data turns into actionable value.

5 Post Seeding Assessment
Once the crop is emerged, an early season assessment will be done by checking plant stands by zone and looking for any early fertility issues that could be addressed. This is a valuable step for monitoring success of seed rates, or to identify future opportunities with seed and fertility. This assessment is added to the SWAT RECORDS app.

6 Pre/Post Harvest Assessment
Finally, late crop assessments along with yield data can be analyzed by SWAT zone to measure success. Soil samples are taken every year at the same geo referenced locations to track nutrient levels and ensure applied nutrients are meeting yield targets, accounting for soil mineralization and nutrient losses. This can be particularly important for nutrients like nitrogen.



SWAT CERTIFIED

Ask about becoming a SWAT CERTIFIED today!

sales@swatmaps.com

“ My confidence in how the zone maps are made as well as the agronomy behind mapping, zoning, prescribing, and technical support are second to none in the VR industry. SWAT MAPS are my first and only choice for mapping fields and creating variable rate prescriptions for the clients I work with. ”
- Tyler K.

“ Ranking accuracy of fertility zone maps on a scale of 1-10, I would say satellite maps would be a 6 and SWAT MAPS would be a 9.5. ”
- Kelly B.

Follow @SWATMAPS on social media!



Learn more about the SWAT Ecosystem or find a service provider at:

swatmaps.com

