Data Management and Analysis Software for Farmers and Agronomist

As the "engine" behind your precision agriculture effort, SGIS software delivers insight, puts you in control and impacts profitability by providing a powerful, sophisticated tool for agricultural mapping and crop planning.

Tailored data management solutions for any operation

With Topcon SGIS agronomy software, users can efficiently and effectively offer multi-product and variable-rate plans that are customized to growers' local conditions and requirements. SGIS software guides agronomic and economic recomenndations – and more profitable crop production decisions. SGIS data management solutions now include SGISfarm, for farm owner and operators, SGISpro for the professional agronomist; and SGISenterprise, which provides precision data management in multi-user environments.

SGISfarm – Simple-to-use data management for farm owners and operators

Ideal for the professional farmer, SGISfarm features an easy-to-use process to streamline the creation of flat and variable rate maps without sacrificing quality or accuracy. This process is focused on proven recommendation methods that are pre-packaged in readily available templates to eliminate the complex process of equation creation. SGISfarm imports and manages all types of data that are critical to a successful farming operation. Data types include: soil test, yield and as-applied data as well as crop sensor, soils and topography information.

SGISpro – Data management and analysis for the professional agronomist

Tailor-made for the co-op, agronomist, or technology-minded farmer, SGISpro builds on the functionality of SGISfarm by adding-in many powerful analysis tools that can be used to highlight the relationships between yields, soil testing information and application data. SGISpro users can efficiently offer multi-product and VRT plans customized to suit growers' exact requirements and demands. It features an industry-exclusive process for tailoring variable rate applications to include local requirements as well as customers' specific requests.

SGISenterprise – Streamlining collaboration between multiple SGIS users

SGISenterprise opens-up a new range of possibilities for interconnectedness between the farmer and agronomist. SGISfarm and SGISpro users can collaborate and access the same database. This means that a Pro user can manage multiple Farm users and access all of their data. At the same time, producers can be limited to only viewing data that is pertinent to their operation. What sets Topcon apart is that we provide users the opportunity to maintain full control and access to their data – it is not uploaded to a remote server but is stored on a local server at the customer's location.

Precision from data import to final analysis

SGIS software imports data from many different source types, such as yield maps, or soil samples, and guides the user through correction and customization of the information. The system then helps professionals generate application plans written for specific implement controllers, which maximize yields and minimize input costs. SGIS software has an open architecture design, which complies with international data format standards as well as the most popular GIS and image file standards. This makes it easy to both export and import data from other office software programs and controllers.

Data import and correction

The SGIS system imports and manages grower information, by farm and field name, in a single database. Users can easily assign crops to fields for current and future record-keeping, and define individual map views. SGIS templates and program wizards let you quickly import soil data and spatial or relational information. And for accuracy, SGIS applies data range filters as well as automatic unit conversion capability. Additional features such as area measurement, map layering and management zones support the assignment of specific yield goals.
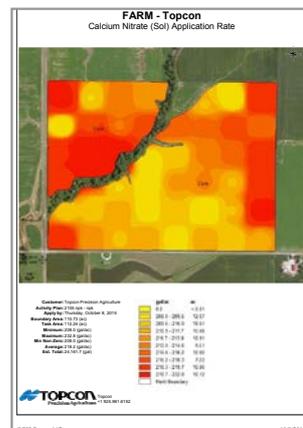
Application plan customization

A recommendation builder module lets you write rules tailored to your local requirements. Based on standards that you customize, these formulas or equations guide the development of application plans. This feature sets SGIS apart in that it lets agronomists input their knowledge of local conditions and preferred crop husbandry practices.

Multi-year yield, application, soils and profit analysis

The SGIS profit analysis calculator guides key management decisions on controllable crop inputs. SGIS guides the user in evaluating profit potential, yield projection or other objectives. The profit analysis is just one example of many user-defined reports SGIS has to offer.

Topcon precision hardware and third-party support

A key strength of SGIS software is tight integration with Topcon precision products as well as a number of machines from AGCO, a Topcon strategic partner. SGIS is the perfect tool for creating variable rate maps for the Topcon X Console Family. In addition SGIS is compatible with virtually every type of application controller on the market today.

System Requirements

2.0 GHz processor or greater
1 GB RAM or greater
4 GB free hard drive space
DVD-RW
Color printer
Microsoft XP Professional
SD card reader
Microsoft Internet Explorer 8.0 or greater
Internet service and e-mail address

Recommended System

Dual-Core 2.3 GHz processor or greater
2 GB RAM or greater
150 GB hard drive or greater
Windows Vista or Windows 7
High-speed internet connection

SGIS

Built on ESRI Technology

- Industry-leading ESRI ArcGIS 10 components
- MS Access database, optional Geo-database conversion
- All data stored in an ESRI standard file geo-database, compatible with all ESRI GIS software products

Connecting field to farm office

Mobile Ag Network (MAGNET®) is a web browser-based environment that simplifies managing field and office data in the cloud, allowing easy file transfer between SGIS and Topcon consoles using Horizon software.

MAGNET can be obtained through monthly or annual license subscriptions and can accept any number of users in a single account. Once a MAGNET Mobile Exchange Ag Application is setup, the user can then transfer data files from various vehicles to the cloud where it is accessible from the office or other machines.

MAGNET Mobile Exchange for ag is a standalone software product that can be used by anyone with an existing account within the Mobile Ag Network website. It is available at no-cost and provides the following features:

- Connect to Mobile Ag Network
- Exchange any file type
- Chat message new orders
- Update progress
- Receive news feeds with updates

Mobile Ag Network file transfer brings easy access to all of the valuable data generated by Topcon precision ag solutions:

Download to the X Console Family
- VRC prescription maps in Shapefile format
- VRC prescription maps in ISO XML format

Upload from the X Console Family
- As-applied maps in Shapefile format
- Coverage Shapefiles
- Boundary Shapefiles
- PDF job reports
- "Per point data" files
- ISO XML files

TOPCON

For more information:
topconpositioning.com/sgis