

How FarmQA Enhances Agronomic Decision-Making

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Digital tools for Agronomy

- ✓ Easy-to-use
- ✓ Full-function mobile scouting app
- ✓ Complete web platform
- ✓ Collect and display information from various sources



**Imagery
and Spatial
Data Layers**

Scouting



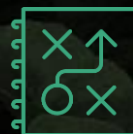
**Advice and
Prescription
Writing**



**Field
Journals**



Planning



Analytics



**Soil
Sampling**

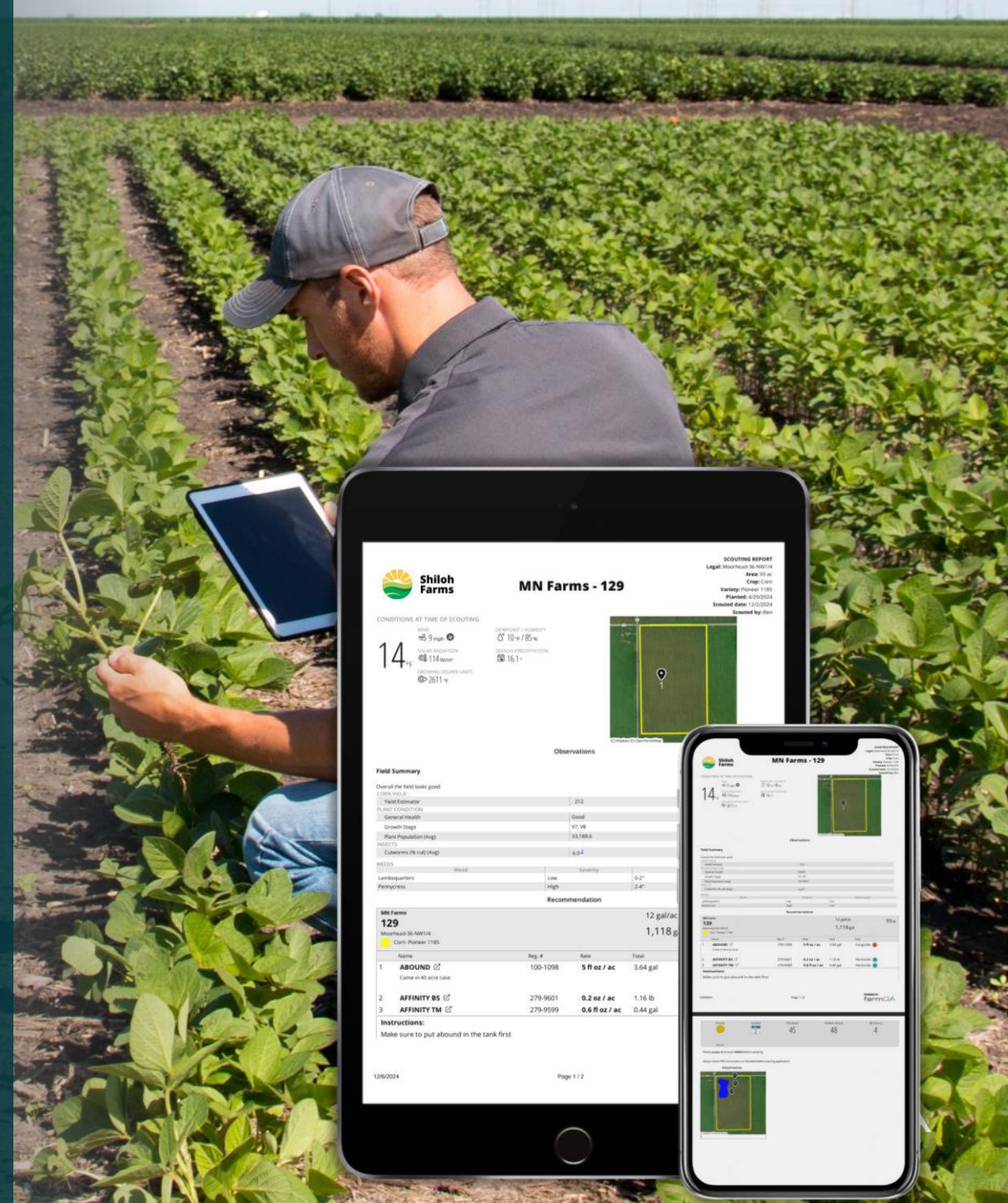


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Scouting & Recommendations

Track crop information and provide recommendations to your growers for applications and treatments.

The screenshot displays the 'Products' section of the Shiloh Farms software. On the left, a list of products is shown, including '2,4-D LV6 (Burndown)', '40 rock', '40 Rock/Potash', '50/50 Urea-Potash Blend', 'ACARISTOP 500 SC', and 'AFFINITY BS'. The main panel shows details for 'ACURON' herbicide, including its manufacturer (SYNGENTA CROP PROTECTION, LLC), target pest (Kochia), and registration number (100-1466). The ingredients list includes S-Metolachlor (23.4%), Mesotrione (2.6%), Bicyclopyrone (0.65%), and Atrazine (10.93%). An ingredient breakdown donut chart is also visible.



The tablet screen displays a 'SCOUTING REPORT' for 'MN Farms - 129'. The report includes a field map, a 'Field Summary' table, and a 'Recommendation' table. The 'Field Summary' table shows various field metrics, and the 'Recommendation' table lists products and their application rates.

Product	Rate	Total
1 ABOUND	5 fl oz / ac	3.64 gal
2 AFFINITY BS	0.2 oz / ac	1.16 lb
3 AFFINITY TM	0.6 fl oz / ac	0.44 gal

The smartphone screen displays a similar view of the Shiloh Farms software interface, showing a scouting report for 'MN Farms - 129' with a field map and various metrics.

Imagery

- Planet and Sentinel
- Used to identify problems, create zones, write variable rate prescriptions

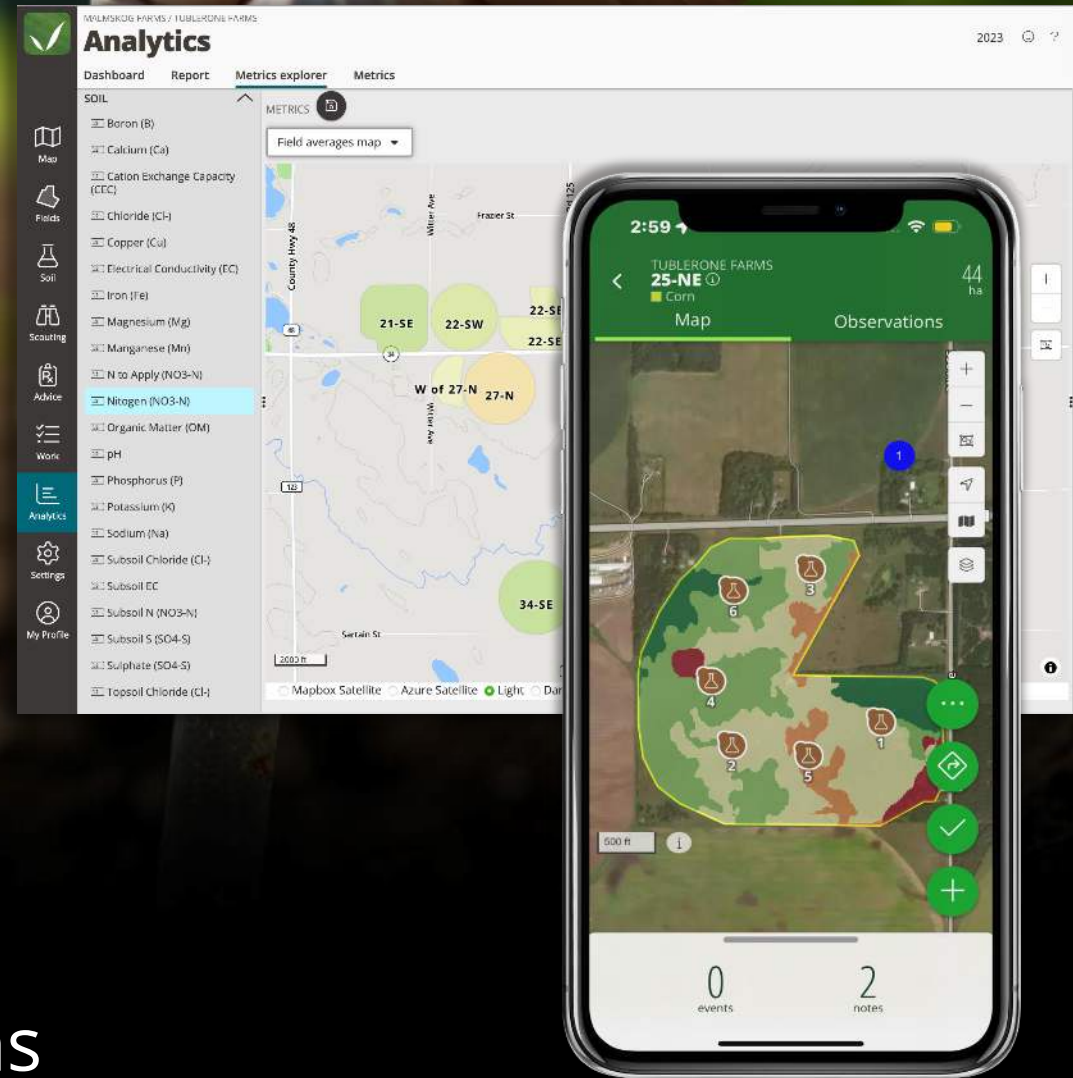
The image displays four screenshots from the FarmQA web application, illustrating various data visualization and monitoring capabilities:

- Top Left:** A field map for 'Munson Farms' showing a field named 'NE of Trailer' (374 acres) with a color-coded vegetation index overlay.
- Top Right:** A regional map of North Dakota with an 'Attributes' popup for the year 2020, displaying a value of 18.511531.
- Bottom Left:** A table of satellite data for various indices, including GNDVI, Harvested area, NDRE, NDVI, Red band, and Red-edge band, with values ranging from 0.46 to 0.57.
- Bottom Right:** A line graph titled 'Harvested area' showing the progression of harvested acres over time, with a y-axis labeled 'Acres - Harvested area' and an x-axis showing dates from 9/20/24 to 10/10/24.

Soil Analysis

Encompasses a number of features including:

- Deciding where to sample
- Guiding to sample points
- Barcoding samples
- Integrating with soil lab
- Geospatial display of results
- Analytics
- Zone creation and prescriptions



Zone Creation/ Prescriptions

- Zones can be created based on soil type, imagery, yields
- Create variable rate prescriptions – varied per zone
- Zones can be created using compaction for variable rate ripping to be downloaded to ripper

The screenshot displays the FarmQA interface. The top window, titled "Layer Example", shows a map with a grid overlay and a sidebar with various tool icons. The bottom window, titled "Create prescription - F30 - NDVI (1)", shows a table of prescription data for five zones. The table includes columns for Zone, Range, Area (ac), Urea (Per ac), Potash (Per ac), and their respective Zone totals. A "Description" field is also present at the bottom of the table.

Zone	Range	Area (ac)	Urea (Per ac)	Potash (Per ac)		
0	< 0.37	51.44 (37.5%)	100	50		
1	0.37 - 0.48	26.25 (19.2%)	175	63		
2	0.48 - 0.59	12.13 (8.9%)	250	75		
3	0.59 - 0.71	25.37 (18.5%)	325	88		
4	0.71 - 0.82	21.81 (15.9%)	400	100		
Description		137 ac	Avg: 250	Sum: 29,740	Avg: 75	Sum: 9,550