

SERVICE & PRODUCT GUIDE



MISSION STATEMENT

Helping to find the balance between physical, chemical, and biological soil properties on every customers fields to achieve their individual yield and revenue goals.

Three Main Components of Soil

Each field is different. How we manage each field is different. We see every service we offer as a piece in a larger puzzle, which is unique to you. How can we help you look at the physical, chemical, and biological soil properties and put the right pieces together to achieve your farm goals.





Physical Soil Properties

Physical is feeling the texture of the soil in our hands. Seeing the different colors of bare soil when looking across a field. Seeing the change in elevation. The smell of the soil. It is our day-to-day interaction with the soil as farmers. This is why we came up with this tag line...

See it. Map it. Manage it.

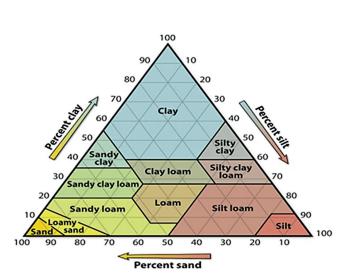
Soil Mapping

One thing that is constant on the farm is the variation of soil type from year to year. Soil Mapping allows us to get a well-defined map of the physical properties in the field and how to manage it at a higher level. This is the baseline for production zones that we use in soil sampling, variable rate seeding, and variable rate nitrogen. Without an accurate soil analysis map, how can you accurately manage your fields at a production zone level to maximize profitability? This is a critical portion that grid sampling overlooks.

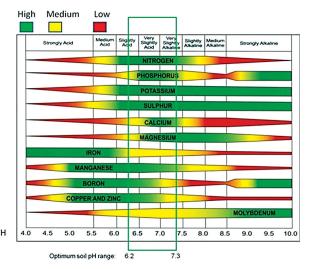
That is precision agriculture.

Soil Mapping is done one time. Currently we map five different soil properties:

- Soil Texture (EC Electrical Conductivity)
- Organic Matter (OM)
- Elevation
- Slope
- Curve



How soil pH affects availability of plant nutrients



pH Maps



Texture Map





Chemical Soil Properties

Chemical is all the periodic table elements that are in the soil. We use the physical soil map to devise our soil sampling zones. This allows us to start to balance the chemical and physical production zone. This is one step that grid sampling cannot do. Grid sampling does not account for any physical changes in the soil. So the best you get is average.

Production Zone Soil Sampling

This is the first place we use the soil mapping zones. Based on the different soil properties, we are able to make the soil sampling locations. Soil Sampling is not a new concept, however sampling in the spring is relatively new.

A few main reasons we have chosen to sample in the spring are:

- consistent soil conditions
- understand what nutrients are available to the growing crop
- while scouting, we can see possible nutrient deficiency, and we can look at soil tests to help answer the "why" question
- time management to develop prescriptions

Doing routine soil sampling and tightening the schedule to every 2-3 years, we can manage the change in any single nutrient quicker. These steps lead back to the accurate use of your fertility dollars, and making the best use of them.

Fertilizer/Lime Recommendations

Fertility recommendations are developed in a multi-step process.

Step one. Soil Sample results.

Step two. Years of field crop removal back to soil sampling date.

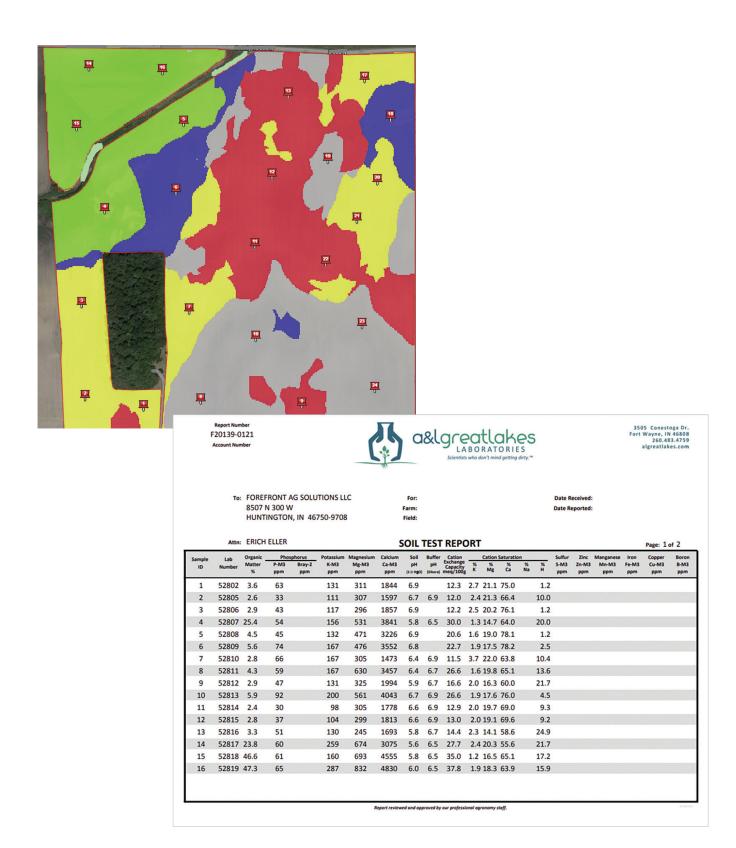
Step three. Years of saved fertility spread recommendations in our system.

Step four. Knowing the next crop.

Lime recommendations are developed the year of soil sampling. Recommendations are generated to raise the pH to 6.5 based on the buffer pH.

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Soil Sampling Summary Report





Biological Soil Properties

Biologicals have always been in the soil. We are discovering how important it is to production, soil health, sustainability, and regenerative Ag. As commercial fertilizer were discovered and yields increased we relied on the chemical property to continue which then make the biological portion sluggish and imbalanced. The goal is to bring this back into balance, to increase overall farm profitability.

We work with a biological company, BW Fusion. We have seen great success using their products and use them regularly in farm planning. This is a systems approach to balance physical, chemical, and biological.



Nitrogen Management



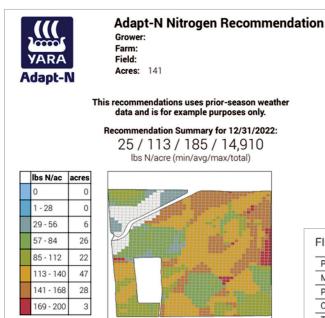




Nitrogen is a unique element. It takes an understating of the physical, chemical, and biological portions of the soil to manage the different forms of nitrogen. The use of production zones are highly critical for the nitrogen program. The mapping of soil texture and organic matter influence nitrogen throughout the growing season. We use information gained from soil tests; hybrid maturity, planting date, starter fertilizer, previously applied nitrogen, and manures. It takes different bacteria and soil microbes to move nitrogen through the nitrogen cycle.

TrailBlazing - Stand Count helps us to understand yield potential in different production zones which is a big factor in determining nitrogen rates.

Daily weather is monitoring for nitrogen loss factors; volatilization, leaching or denitrification. Through all of this we can produce daily nitrogen prescriptions.



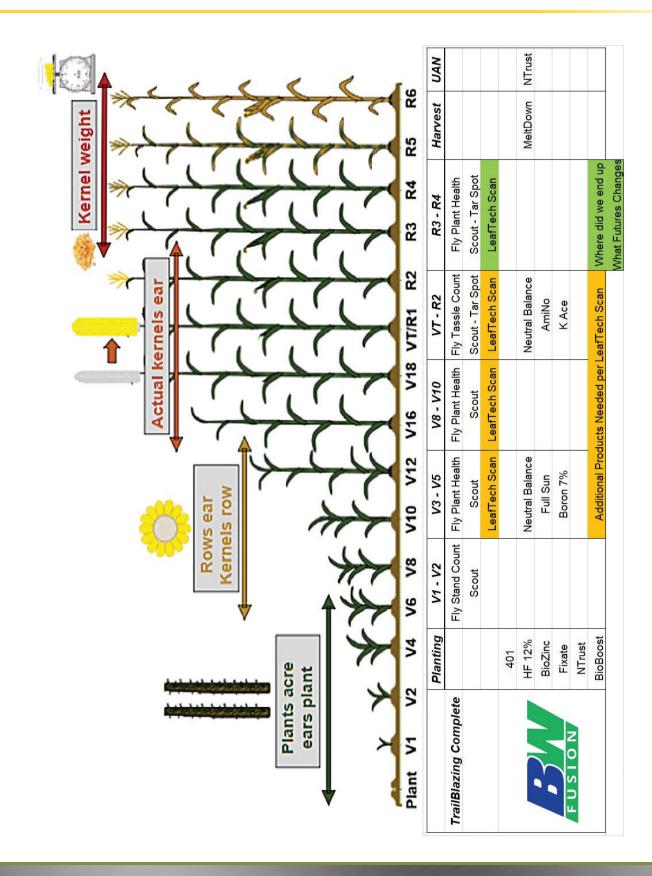
Planting I	Date			01	/01/2023
Maturity	Class			Grains: 112	2 day corn
Previous	Crop				Soybean
Cover Cro	ор			None	Specified
Tillage M	ethod				No-Till
			min	avg	max
Organic N	Matter (%)		2.20	6.78	47.30
Planting I	Population		30,000	32,034	36,000
Yield Tar	get (bu/acı	re)	200	221	250
Soil pH			5.6	6.3	6.9
IITROG	EN APPL	LICATION			
DATE	TYPE	FERTILIZER	(MIN/AVG	PRODUC I-RATE RA /MAX) (MIN/AV MA	TE DEPTH
Planting Date	Starter	UAN (28-0-0) (Liquid) (+ Thio-Sul / CAT)	20.01	bs/ac 6.7 gal/s	ac 3"
		TOTAL	20.0 / 20.00	/ 20.0 bs/ac	

TrailBlazing Complete Complete







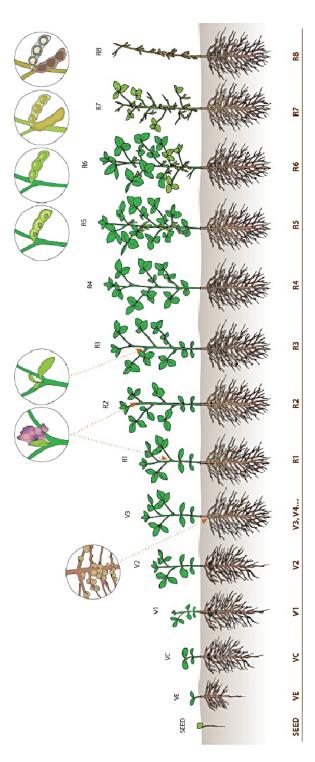


TrailBlazing Complete ••••



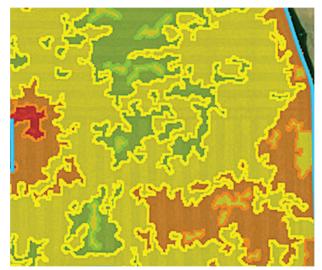


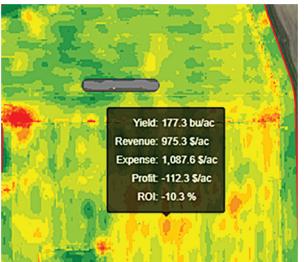




	Planting	V1 - V2	<i>V</i> 3 - <i>V</i> 5	R1 - R3	R5 - R6	Harvest
TrailBlazing Complete		Fly Stand Count	Fly Plant Health	Fly Plant Health	Fly Plant Health	
		Scout	Scout	Scout	Scout	
			LeafTech Scan	LeafTech Scan	LeafTech Scan	
	Environoc ST					
	401		Neutral Balance	Neutral Balance		MeltDown
	HF 12 %		Advance	AmiNo		
FUSION	AmiNo		Boron 7%	K Ace		
	BioBoost		Additional Products Nee	Additional Products Needed per LeafTech Scan	Where did we end up	
					What Futures Changes	

TrailBlazing R.O.I Analysis







Acres Farmed		
Acres Improved	Х	10%
Acres Improved		
Profit Improved per acre	Х	\$550
Total Farm Improved		
TrailBlazing Cost per Acre	/	\$17
Value in Acres of TrailBlazing		
Acres Farmed	/	
R.O.I. of TrailBlazing		
Acres Farmed		
Acres Improved	Х	º/o
Acres Improved		
Profit Improved per acre	Х	\$
Total Farm Improved		
TrailBlazing Cost per Acre	1	\$17
Value in Acres of TrailBlazing		
Acres Farmed	1	

R.O.I. of TrailBlazing

Information Sharing

This allows field activities to sync to our office. FieldAlytics can sync with MYJD, Fieldview, Farmobile, Agfinity, and Slingshot. The benefits to this are numerous. Planting dates can drop in with using a plant growth model and localized weather stations. We can determine when a plant will emerge. Launching into TrailBlazing Crop Monitoring program. This information sharing can give us real-time information to get personnel out to the the field quicker for you to make faster decisions when time is critical. We do business at the speed of wireless internet versus the speed of our truck. Time is money!

Yield Data

Yield monitor calibration is important to make sure the yield information is accurate when combining the crop.

We have compiled your as applied, as planted, soil samples, tissue samples, all imagery, and collecting yield data is the final step. By completing everything mentioned we can determine the profitability for each production zone. Yield data is also used in yield removal for the fertility recommendations. This helps us makes better decisions for the next growing season. What worked? What did not work? What can we improve on?



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Pricing Guide

Veris Soil Mapping		Map CEC, Organic Matter, pH, Slope, Curve, Elevation	
		Data is loaded into FieldAlytics,	
		used as base line in Multi-Input Zone tool	\$15.00
Veris pH			\$7.50
Production Zone Soil Sampling	Spring	Based upon Multi-Input Zone tool in FieldAlytics	\$6.50
	Fall		\$7.50
Production Zone Soil Sampling + Nitrate Soil Test	Spring		\$11.50
Grid Soil Sampling	Spring	Based upon 2.5 acre Grids	\$9.50
	Fall		\$10.50
Lime Recommendations		Created the year of soil sample	Included
Fertilizer Recommendations		Soil Sample results set base line,	
		Deduct Yield Removal from Calibrated Combine	
		Credit any application of Nutrients	\$1.00
Nitrogen Recommendations		Adapt-N uses Multi-Input Zone tool,	
		Soil Sample Results	
		Production Zone Yield Estimates, using Stand Counts	
		Can add in PSNT test results	\$6.50
Nitrogen Soil Test		PSNT can be used to fine tune Adapt-N	
		Great for manures - that vary	\$10.00
Seeding Recommendations		Variable Rate Seeding base upon Multi-Zone Tool	\$1.00
Manure Sampling		Per Sample Jar	\$100.00
Information Management		Creating Planting and Harvest report for	
		Crop Insurance and USDA	\$500.00
Information Movement		FFAS employee coming out	
		and installing Rx and downloading monitor data	\$1.00
Information Sharing		Farmobile, MYJD, Climate, AgFiniti, and others	Included

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Pricing Guide

TrailBlazing Crop Monitoring	Complete		
Translazing Grop Morntoning	What	UAV Flights, Weekly Satellite Images, Leaf Scan	
	Who	Specific scouting events with SMART device	
		tracking in FieldAlytics Mobile	
Information Charing is Mandatory	When	Corn - Stand Count, V4, V10, Tassel Count, Late Season Tar Spot	
Information Sharing is Mandatory	WITCH	Beans - Stand Count, V3, R3, R6	
	Why	Replant Decisions, Nutrient Deficiency, Weed Pressure	
	Why		
		Insect Pressure, Disease Pressure	61700
		Recommendations Included	\$17.00
TrailBlazing Crop Monitoring	Tier 2		
	What	2 UAV Flights, Weekly Satellite images	
	Who	2 Specific scouting events with SMART device	
		tracking in FieldAlytics Mobile	
Information Sharing is Mandatory	When	Corn - Stand Count, Tassel Count	
		Beans - Stand Count, R3	
	Why	Replant decisions	
		Recommendations Included	\$7.00
TrailBlazing Crop Monitoring	Wheat		
	What	2 UAV Flights, Weekly Satellite images	
	Who	4 Specific scouting events with SMART device	
		tracking in FieldAlytics Mobile	
	When	Feekes Scale - 3, 6, 8, 10	
	Why	Stand Decisions, Nutrient Deficiency, Weed Pressure	
		Insect Pressure, Disease Pressure, Yield Estimates	
		Recommendations Included	\$8.00
Service Call		Customer is having issues loading our Rx Maps into monitor	
		If error is our maps	FREE
		If error is in operator ability to use monitor	\$75 hr
	<u> </u>	<u> </u>	

ForeFront Ag Solutions Programs

ForeFront Financing

- · Invoices Due Net 15 Days of Invoiced
- Invoices over 30 days will be charged 1.5% Monthly or 18% Annually

Early Pay Discounts

· See sales representative for program details.

John Deere Financing

· See sales representative for program details.

Returns

No Returns

- FFAS Representative will work with you using FieldAlytics Farm Plans.
- This allows us to provide a Shopping List to accurately provide quanities needed for your operation.

Partial Totes

- Quantities purchased directly from BW of less than 100 gallons will be sold in 2.5 gal jugs and incur additional cost.
- Quantities purchased directly from BW between 100 264 gallons will incur a \$150 partial tote charge.
- FFAS will do their best to purchase full totes (265 gallon) and divide between multiple customers to avoid extra charge. However, this will not happen every time.

Notes

Contact Us

Scan with your smart phone camera to visit ForeFrontAg.com →



Schedule Your **Onsite Consultation:** 260.504.6149



Connect With Us







Testimonials

In these tougher economic times, it was hard for us to add a cost when we were looking at finding ways to cut production cost. When analyzing where to cut, the clear choice was in services. So why did we add a service when we were cutting others? Because ForeFront Ag Solutions has cut our input cost while adding yield that we had not previously been capable of recognizing. Investing in ForeFront Ag Solutions has definitely helped our bottom line.

J. Kline, Kline Family Farms

Working with ForeFront Ag Solutions has give me confidence that data analysis and prescriptions are both accurate and cost effective.

L. Hindbaugh, Hindbaugh LLC

Erich is going to work for you. Period. Our production achievements are his production achievements. With a bag full of tools, he allows you to tailor his skills to your needs.

M. Stephan, Stephan and Sons

ForeFront Ag Solutions has mapped our fields. This has increased our accuracy and confidence in our variable rate programs. ForeFront Ag Solutions has turned data into better decisions and those decisions into more profit per acre.

T. Landrum, Little River Farms





SEE IT. MAP IT. MANAGE IT.

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