



NLID Plot

NUTRIENT LOSS INHIBITOR DEMONSTRATION (NLID)

2020 Virtual Field Day
WAYNE COUNTY, ILLINOIS

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PIKE Ag, LLC

Speaker and Presenter Bios:

Lauren Lurkins

Lauren Lurkins serves as the Director of Environmental Policy in the Governmental Affairs and Commodities Division of the Illinois Farm Bureau (IFB). Lauren is responsible for developing and coordinating the organization's natural resources and environmental programs. Prior to her position with IFB, Lauren practiced environmental law with the law firm of Hodge Dwyer & Driver in Springfield, IL.

Doug Anderson

Doug Anderson holds the IFB Certified Manager designation and has served as the County Manager for the Wayne and White County Farm Bureaus (CFB) since 2003. He has served in dozens of leadership roles within the organization and throughout the communities in the two counties.

Julie Hewitt

Julie Hewitt joined the Illinois Nutrient Research and Education Council (NREC) in October 2015 and is NREC's first full-time Executive Director. She graduated from Illinois State University with a degree in Agricultural Business and has spent the last 17 years working in various aspects of the industry. Julie's main focus is to identify opportunities for NREC

to advance research into nutrient efficiency, while ensuring that NREC is continually sharing the outcomes of this research so that farmers and other members of the agriculture industry can incorporate these practices on their farms.

John Pike, CCA

John Pike, a research agronomist with Pike Ag LLC, works with various industry partners and universities in developing relevant on-farm research trials focusing on cover crops, nutrient use efficiency, and other various agronomic systems important to farmers.

Mike Wilson, ASA, CCA 4R NMS/ RMS/ PASp

Mike Wilson serves as an independent consultant in the areas of soil fertility and nutrient management, with a strong focus on nutrient efficiency with increased attention to secondary and micro-nutrients. He holds the 4R's Nutrient Management Specialist Certification and is a Pest Resistance Management Specialist. Mike serves as the Incoming Chairman of the Illinois Crop Advisory Board of Directors.

Dr. Amir Sadeghpour, Ph.D.

Dr. Amir Sadeghpour is the Assistant Professor of Soil Management and Integrated Cropping Systems in the Department of Plant, Soil and Agricultural Systems at Southern Illinois University in Carbondale (SIUC). Dr. Sadeghpour's research focus is on the climate variability challenges to sustainable food production. His focus is to design regionally adapted cropping systems that are profitable, efficient, sustainable, and resilient.

Fred and Louisa Blessing

Fred and Louisa Blessing serve as the host farm family for the NLID project. Orlyn Blessing purchased the original farm in December of 1948. After being discharged from World War II, he raised corn, soybeans, wheat, clover seed, and hay in addition to hogs and cattle. Today, the original 500 acres are owned by his 3 children Barbara Bozarth, Fred Blessing, and Bruce Blessing. Orlyn's sons planted their first crop in 1974, shortly after his passing, under the supervision of their uncle Darrell Blessing. Fred & Louisa Blessing currently operate the farm, raising corn and soybeans.

NLID Project goals

The Nutrient Loss Inhibitor Demonstration (NLID) Plot is a project that uses nutrient enhancers and inhibitors, as well as micro and secondary nutrient applications, to demonstrate improved fertilizer efficiency and economic advantages over traditional fertilizer applications.

Our 2020 NLID Project goals include...

- Producing a demonstration plot that focuses on achieving the core nutrient loss management strategies outlined in the Nutrient Loss Reduction Strategy (NLRS) for Phosphorus and Nitrogen.
- Demonstrating the efficacy of various nutrient uptake enhancers and nutrient loss inhibitors available to farmers.
- Demonstrating how farmers can maximize the return on their fertilizer investment by utilizing and protecting all available nutrients in the field.
- Demonstrating how farmers and retailers are working together to research what practices will best reduce nutrient loss from farm fields and build grower awareness.



Y-drops were used to apply liquid fertilizer and treatments both in the furrow and in the wings.

Illinois Farm Bureau

Since 2015, IFB has contributed to an impressive statewide effort called the Illinois Nutrient Loss Reduction Strategy (NLRs). Through leadership and participation from our farmer members across the state, IFB has been able to make meaningful contributions toward water quality improvements in Illinois. From 2016 to present, IFB has committed approximately \$1.5 million of its own funding to build and maintain its sustainability programs.

The NLRs is a science-based framework for using research, technology and industry experience to assess and reduce nutrient loss to Illinois waters and to the Gulf of Mexico. The NLRs sets forth a plan to leverage existing programs to optimize nutrient loss reduction while promoting collaboration, research, and innovation among the private sector, academia, non-profits, wastewater treatment agencies, the agricultural sector, and state and local government. The primary goals include reducing nitrate-nitrogen losses by 15% and reducing total phosphorus losses by 25% by the year 2025 from established baseline conditions. The NLRs was released in July of 2015 after multiple years of stakeholder discussions in which IFB actively participated. Since 2015, IFB has continued its participation in NLRs meetings and work groups in order to strategically guide the effort. In addition, IFB created new programs in 2015 to support farmer implementation of best management practices (BMPs) to help Illinois meet the goals of the NLRs.

Wayne County Farm Bureau

Wayne CFB is a 501(c)5 non-profit organization based in Fairfield, Illinois serving 2,100 members. The mission of the Wayne CFB is... "to maintain a strong, well organized association in the ag community, dedicated to sounding a strong voice for agriculture, meeting farmer's needs, and preserving and enhancing the quality of family farm life."

For the past several years, IFB has made it an organizational priority to lead on environmental issues, most notably, the NLRs. IFB's NLRs efforts focus in four priority areas: 1) education and outreach to farmers, landowners and the general public; 2) supporting research of best management practices to reduce nutrient loss from agricultural fields; 3) supporting farmer implementation efforts across the state; and 4) demonstrating progress toward the long-term goals of the NLRs. The IFB Board of Directors committed significant financial resources and support from staff to accomplish some ambitious goals, allowing IFB to tackle environmental challenges head-on. IFB will continue to prove that voluntary, incentive-based conservation, based on science, will move the needle on water quality improvements in our state.

The IFB Nutrient Stewardship Grant Program is one example of the many ways IFB is creating lasting impacts in implementing the NLRs across Illinois. This program funds county Farm Bureau (CFB) projects throughout the state focused on improving soil health and water quality. Since 2015, IFB has dedicated over \$550,000 to CFBs to complete a wide range of unique projects, including planting test plots of cover crops, watershed planning, water testing, hosting education and outreach activities. For more information on IFB's environmental efforts, see www.ilfb.org/take-action/current-priorities/protecting-our-environment/.

Wabash Valley Service Company

The Wabash Valley Service Company is a full service, farmer-owned agricultural cooperative serving producers in Crawford, Edwards, Gallatin, Hamilton, Jasper, Lawrence, Richland, Wabash, Wayne, and white counties in southeastern Illinois and Posey, Gibson, and Vanderburgh counties in southwestern Indiana.



Mike Wilson adds Pro Valley Blue starter fertilizer to the research planter operated by Wabash Valley Service Company.

Illinois Nutrient Research and Education Council Support

Illinois NREC is a collaborative effort by Illinois farmers, the fertilizer industry and the Illinois Department of Agriculture to address issues related to fertilizer use in Illinois.

Created by state statute in 2012, NREC is funded by a 75-cent assessment on each ton of bulk fertilizer sold in Illinois. These funds are invested in research projects and educational programs designed to optimize nutrient use and protect the environment.

A 13-member NREC council annually solicits, reviews and funds projects that fulfill the organization's mission. Environmental organizations provide input to the council.

The NREC Mission

NREC is committed to helping farmers and other users of fertilizer products get the best performance possible from their nutrient applications. To accomplish this, NREC sponsors research and educational programs that have three purposes:

- Ensure adoption and implementation of best practices that optimize nutrient efficiency.
- Ensure soil fertility.
- Address environmental concerns related to fertilizer use.

Since its inception in 2012, Illinois NREC has invested over \$23 million into nutrient-related research efforts. Through the research that is being funded through NREC, Illinois agriculture is working together to meet the requirements of the NLRS. Without this funding, the industry would be without critical research into maximizing the efficiency of agricultural nutrients while minimizing any possible negative impacts to the environment.

Research Priorities

NREC focuses on three main goals when considering research projects:

- Maximize Efficiency
- Minimize Losses
- Mitigate Negative Environmental Impacts

These goals are pursued by sponsoring projects that examine the effectiveness and economic viability of farming practices that will reduce losses of nitrogen and phosphorus to water without being detrimental to yield.

Learn more by visiting www.illinoisnrec.org where you can see a full listing of current projects, review the annual report, and see other priority areas being studied.



The NLID field was planted on April 21 by Wabash Valley Service Company using a Harvest International Research Planter.

NLID Plot – Introduction

Content provided by Mike Wilson CCA, 4RNMS/RMS/PASp

This year's NLID plot has a very different format to past years. We have switched our fertilizer strategy to a liquid nitrogen program using UAN 28% solution. I see UAN as a growing option for local farmers, and this product gives us more options for the application of Nitrogen Use Enhancements (NUEs). Our goal is to be as efficient with our N application as possible while maintaining or growing yield. This year, we used a homemade Y-Drop applicator to make the N applications.

Today we have several more choices in micronutrients, soil health enhancements, bio-stimulants, and nitrogen enhancing products than ever before. Our task with the

NLID plot is to separate the grain from the chaff. You will see several new products in this year's NLID plot.

Finally, we have also added a fallow ground plot on the backside of Fred's farm. In 2019, Fred had to prevent plant this field; so, this plot has not been planted to corn since 2017, nor was it planted with cover crops in 2019. We used this opportunity to look at applications of in-furrow phosphorus, near the row, and a combination of the two. The results have been astounding. We look forward to presenting our findings both during the virtual field day and with our final yield report after harvest.

NLID Plot Treatments Used



Hydra-Hume is a fertilizer efficiency tool designed to increase fertilizer uptake and help retain N & P in the soil. Hydra-Hume helps prevent nutrient tie-up by improving availability, soil structure and aggregation to allow for better water movement.



Instinct II nitrogen stabilizer is proven to optimize yield and profit potential of corn and wheat by inhibiting nitrification of applied nitrogen with UAN, urea and liquid manure. This allows nitrogen to be available longer at the root zone — when and where corn and wheat need it most.



KickStand MicroMix is a 100% EDTA micronutrient solution containing 3% zinc, 1% manganese, 1% copper and .2% molybdenum. It provides immediate availability of the micronutrients without soil tie-up. The Asset Formulation Technology helps extend nutrient uptake and solubilize trace elements in the soil.



NutriSphere-N shields nitrogen by inhibiting enzymes and keeping more nitrogen in the immobile ammonium form for a longer period of time. That means less leaching, less volatilization and more usable nitrogen to aid the health and development of the plant.



Pro Valley Blue is placed directly in the seed furrow at planting to deliver nutritional benefits to the plant at one of the most critical growth stages. With five gallons of Pro Valley Blue, you will be placing over 10 lbs. of available phosphorus in order to maximize yields.

Hydra-Hume & KickStand Micro-Mix are registered, trademarked products of Helena Agri-Enterprises, LLC. Instinct II is a registered trademark product of Corteva AgriScience. Nutrisphere-N is a registered trade-marked product of Verdesian Life Sciences.



PROVEN microbes continually feed nitrogen to the corn plant throughout the growing season with peak nitrogen production during the crops' most critical growth stages. PROVEN microbes adhere to the roots of the corn plant and will not run off during weather events.



Retain by Pro Valley is a low odor, non-corrosive UAN and Urea nitrification inhibitor. Retain has great cold weather handling characteristics as well as an NRCS approved active ingredient, dicyandiamide (DCD). Retain in a plant preferred and more usable form. It also helps to minimize leaching, increase yield potential and maximize your return on investment.



Ag Bio Logic's START RIGHT is a proprietary formulation of nutrients sequestered in a concentrated organic acid. It is fortified with a carbon synergist, fermented plant extracts, and select soil bacteria. It is for use on all crops at planting or at early side-dressing.



Zypro delivers enzymes into the soil to maximize fertility programs. It kickstarts strong root growth and boosts nutrient uptake to increase yield potential. It optimizes the soil microbial community to help produce a stress-resistant plant.

Pro Valley Blue and Retain are trademarked registered products of Pro Valley, LLC. PROVEN is a trademarked registered product of Pivot Bio. Start Right is a trademarked registered product of Ag Bio Logic, LLC. Zypro is a trademarked registered product of Helena Agri-Enterprises, LLC

NLID Plot Treatments & Results

#	Starter Fertilizer	Treatment #1	Nitrogen Fertilizer	Treatment #2	Treatment #3	Treatment Cost (\$/ac)	8/3/2020 population (thousand/ac)	8/3/2020 Yield Estimate (bpa)
1 UTC	-	-	-	-	-	-	26	91
2	PVB (4.5gal/ac)	-	UAN (30gal/ac)	Instinct (1qt/ac)	-	\$61.87	28	143
3	PVB (4.5gal/ac)	Kickstand MM (1qt/ac)	UAN (30gal/ac)	Instinct (1qt/ac)	-	\$67.91	28	161
4	PVB (4.5gal/ac)	ProveN (12.4oz/ac)	UAN (30gal/ac)	Instinct (1qt/ac)	-	\$75.87	28	125
5	PVB (4.5gal/ac)	Start Right (1qt/ac)	UAN (30gal/ac)	Instinct (1qt/ac)	-	\$72.37	27	146
6	PVB (4.5gal/ac)	Zypro (8oz/ac)	UAN (30gal/ac)	Instinct (1qt/ac)	-	\$66.37	26	149
7 UTC	-	-	-	-	-	-	24	115
8	PVB (4.5gal/ac)	-	UAN (30gal/ac)	Retain (1qt/ac)	-	\$63.81	26	153
9	PVB (4.5gal/ac)	Kickstand MM (1qt/ac)	UAN (30gal/ac)	Retain (1qt/ac)	-	\$69.85	29	177
10	PVB (4.5gal/ac)	ProveN (12.4oz/ac)	UAN (30gal/ac)	Retain (1qt/ac)	-	\$77.81	28	148
11	PVB (4.5gal/ac)	Start Right (1qt/ac)	UAN (30gal/ac)	Retain (1qt/ac)	-	\$74.31	28	164
12	PVB (4.5gal/ac)	Zypro (8oz/ac)	UAN (30gal/ac)	Retain (1qt/ac)	-	\$68.31	27	138
13 UTC	-	-	-	-	-	-	29	97
14	PVB (4.5gal/ac)	-	UAN (30gal/ac)	Nutrisphere-N HV (18oz/ac)	-	\$64.72	28	134
15	PVB (4.5gal/ac)	Kickstand MM (1qt/ac)	UAN (30gal/ac)	Nutrisphere-N HV (18oz/ac)	-	\$70.76	28	152
16	PVB (4.5gal/ac)	ProveN (12.4oz/ac)	UAN (30gal/ac)	Nutrisphere-N HV (18oz/ac)	-	\$78.72	26	133
17	PVB (4.5gal/ac)	Start Right (1qt/ac)	UAN (30gal/ac)	Nutrisphere-N HV (18oz/ac)	-	\$75.22	26	109
18	PVB (4.5gal/ac)	Zypro (8oz/ac)	UAN (30gal/ac)	Nutrisphere-N HV (18oz/ac)	-	\$69.22	25	135
19 UTC	-	-	-	-	-	-	23	112
20	PVB (4.5gal/ac)	-	UAN (27gal/ac)	ATS (3 gal/ac)	HydraHume (1gal/ac)	\$67.31	23	148
21	PVB (4.5gal/ac)	Kickstand MM (1qt/ac)	UAN (27gal/ac)	ATS (3 gal/ac)	HydraHume (1gal/ac)	\$73.35	25	128
22	PVB (4.5gal/ac)	ProveN (12.4oz/ac)	UAN (27gal/ac)	ATS (3 gal/ac)	HydraHume (1gal/ac)	\$81.31	29	101
23	PVB (4.5gal/ac)	Start Right (1qt/ac)	UAN (27gal/ac)	ATS (3 gal/ac)	HydraHume (1gal/ac)	\$77.81	29	138
24	PVB (4.5gal/ac)	Zypro (8oz/ac)	UAN (27gal/ac)	ATS (3 gal/ac)	HydraHume (1gal/ac)	\$71.81	29	125
25 UTC	-	-	-	-	-	-	25	108

PRE-HARVEST PLOT NOTES

- Planted on April 21, 2020, in good conditions
- Corn hybrid is FS 6595V
- Target population at planting was 30,000/ac
- Fertilizer applied with Y drops on June 16, 2020 (corn at V7)
- Pre N application soil test was 59 lbs/ac plant-available N at 12 inch depth
- All treatments with PVB included 4oz/ac of Ethos for insect control

**Treatment cost per acre only includes products listed in the table and does not include application. Talk to your Wabash Valley Service Company crop sales specialist for current product and application pricing.*

After harvest, the data table will be updated with actual yield, post-harvest N, nutrient efficiency rank, and profit rank.

NLID POST-HARVEST RESULTS

#	Treatments	Treatment Cost (\$/ac)	Treatment Cost Rank	Harvested Yield (bu/ac)	Harvested Yield Rank	Gross Profit (\$/ac)	Profit Less Treatment Cost (\$/ac)	Profit Less Treatment Cost Rank
1 UTC	-	-	-					
2	PVB, UAN, Instinct	\$61.87	1					
3	PVB, Kickstand, UAN, Instinct	\$67.91	6					
4	Pvb, ProveN, UAN, Instinct	\$75.87	16					
5	PVB, Start Right, UAN, Instinct	\$72.37	12					
6	PVB, Zypro, UAN, Instinct	\$66.37	4					
7 UTC	-	-	-					
8	PVB, UAN, Retain	\$63.81	2					
9	PVB, Kickstand MM, UAN, Retain	\$69.85	9					
10	PVB, ProveN, UAN, Retain	\$77.81	17					
11	PVB, Start Right, UAN, Retain	\$74.31	14					
12	PVB, Zypro, UAN, Retain	\$68.31	7					
13 UTC	-	-	-					
14	PVB,, UAN, Nutrisphere-N HV	\$64.72	3					
15	PVB, Kickstand MM, UAN, Nutrisphere-N HV	\$70.76	10					
16	PVB, ProveN, UAN, Nutrisphere-N HV	\$78.72	19					
17	PVB, Start Right, UAN, Nutrisphere-N HV	\$75.22	15					
18	PVB, Zypro, UAN, Nutrisphere-N HV	\$69.22	8					
19 UTC	-	-	-					
20	PVB,, UAN, ATS	\$67.31	5					
21	PVB, Kickstand MM, UAN, ATS	\$73.35	13					
22	PVB, ProveN, UAN, ATS	\$81.31	20					
23	PVB, Start Right, UAN, ATS	\$77.81	18					
24	PVB, Zypro, UAN, ATS	\$71.81	11					
25 UTC	-	-	-					

**Data table will be completed after harvest.
Gross profit figured on \$3.00/bushel**



FALLOW FIELD – TREATMENTS & RESULTS

#	Starter Nitrogen In Furrow	Starter Nitrogen In Wings	Nitrogen	Treatment #1	Treatment #2	Treatment Cost (\$/ac)	8/3/2020 population (thousand/ac)	8/3/2020 Yield Estimate (bpa)
FG 1	-		UAN (50 gal/ac)	ATS (3 gal/ac)	Hydra Hume (1gal/ac)	\$78.00	27	172
FG 2	PVB (4.5 gal/ac)	-	UAN (50 gal/ac)	ATS (3 gal/ac)	Hydra Hume (1gal/ac)	\$94.80	25	213
FG 3	-	PVB (10 gal/ac)	UAN (50 gal/ac)	ATS (3 gal/ac)	Hydra Hume (1gal/ac)	\$103.40	27	205
FG 4	PVB (4.5 gal/ac)	PVB (10 gal/ac)	UAN (50 gal/ac)	ATS (3 gal/ac)	Hydra Hume (1gal/ac)	\$120.20	28	166

FALLOW GROUND FIELD NOTES

- Planted on April 5, 2020, in good conditions
- Corn hybrid is Becks 5832A3
- Target population at planting was 30,000/ac
- Fertilizer applied with Y drops on June 16, 2020 (corn at V7)
- All treatments with PVB included 4oz/ac of Ethos for insect control

**Treatment cost per acre only includes products listed in the table and does not include application. Talk to your Wabash Valley Service Company crop sales specialist for current product and application pricing.*

After harvest, data table will be updated with actual yield, post harvest N, nutrient efficiency rank, and profit rank.



Additional research alongside the NLID project includes a nitrogen rate study for NREC. Photo provided by PIKE Ag, LLC.

Precision Nitrogen Management of Corn in Southern Illinois

Content provided by Dr. Amir Sadeghpour (SIUC) and Dr. Joshua McGrath (University of Kentucky)

Why do we do it?

Variable-rate nitrogen (N) management in corn presents growers with the opportunity to increase profit margin and N use efficiency (NUE) while decreasing environmental N losses. Currently, Illinois farmers do not have access to a regionally specific sensor-based algorithm for variable-rate N management used with tools like GreenSeeker™ sensors. This NREC funded project seeks to generate an algorithm for Illinois farmers, as well as provide them with improved conventional N recommendations. In addition, we hope to evaluate the precision and accuracy of existing commercially and publicly available N recommendation systems to help farmers make informed decisions regarding N management. Overall, this project supports the goals of the NLRs.

How do we do it?

We will use NREC funding to conduct research trials at SIUC experiment stations and also work with cooperative farmers to conduct research trials at their farm when possible. Plots are laid out using a randomized complete block design. We will replicate treatments in four to six blocks based on the available area. The treatment combinations range from 32 to 36 based on the size of the field. Individual plots will measure 20 ft wide by 60 ft long. Just before planting, all early-season N fertilizer will be injected approximately 4 inches below the soil surface and offset 7.5 inches from the corn row using a coulter applicator equipped with RTK corrected GPS guidance. We will apply sidedress N between V6 and V8 growth stages by dribbling UAN down the center of the corn rows using a high clearance sprayer.

At sidedress time, sprayer mounted GreenSeeker units will collect normalized difference vegetation index (NDVI). At the time of sidedressing each plot will be divided in half lengthwise, creating two four-row by 60 ft subplots. One of the subplots will be randomly selected to receive the assigned side-dress treatment, while the other half will receive no sidedress N. When space allows, we create four subplots. For example, Table 1, (Page 11) shows the assigned starter (four) and sidedress (nine) rates for the Logan County site in 2019, which resulted in 36 final N rates. Each plot contained four subplots with a factorial combination of the assigned starter and sidedress rates. Resulting in subplots with starter + sidedress, starter without sidedress, sidedress without starter, and no sidedress or starter (Figure 1, Page 11). Embedding check plots within each sidedress N plot is a unique approach to conducting N response trials. This design will allow us to estimate the spatial variability in N responsiveness at each individual sidedress rate. Nitrogen responsiveness, the increase in yield per unit N applied, is a fundamental component of N requirement, and a key factor required to develop variable rate or model-based N management approaches.

What have we found so far?

In all trials in Illinois and Kentucky (with or without cover crops), the economic N rate ranged from 99 to 330 lbs N/acre, and optimum economic yield ranged from 128 to 342 bu/acre indicating huge variability in N requirement for reaching optimum economic yield within just one year. These data indicate a need to move towards mechanistic N management approaches to improve site-specific N management practices (Figure 1, Page 11).

Table 1. Early season, sidedress, and total season N rates at Logan County Site.

V8 Trt No	At planting nitrogen rate			
	-----lb-N/a-----			
	18.5	37.0	55.5	74.0
V8 Trt No	Sidedress nitrogen rate			
	-----lb-N/a-----			
	18.5	37.0	55.5	74.0
1	42	42	42	42
2	68	68	68	68
3	95	95	95	95
4	121	121	121	121
5	148	148	148	148
6	174	174	174	174
7	201	201	201	201
8	227	227	227	227
9	254	254	254	254
V8 Trt No	Total final rate			
	-----lb-N/a-----			
	18.5	37.0	55.5	74.0
1	60	79	97	116
2	87	105	124	142
3	113	132	150	169
4	140	158	177	195
5	166	185	203	222
6	193	211	230	248
7	219	238	256	275
8	246	264	283	301
9	272	291	309	328

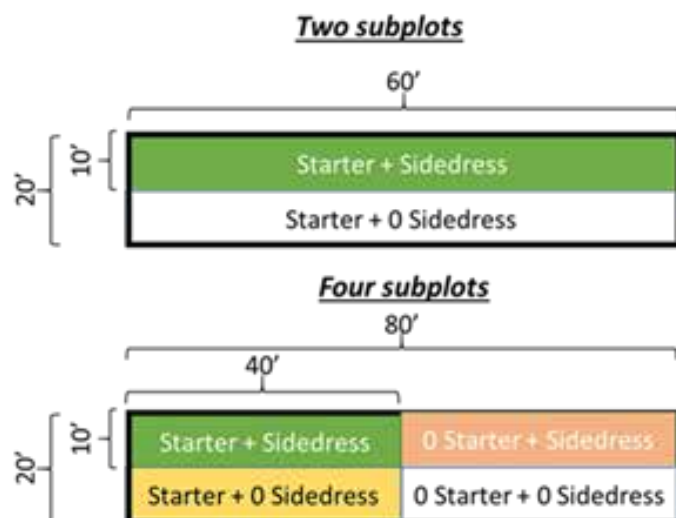


Figure 1. An example of two vs. four subplot design in precision N trials.

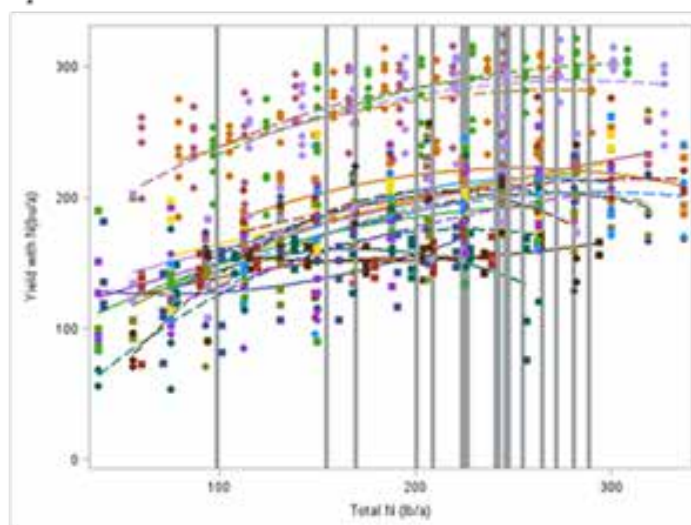


Figure 2. Economic Optimum N rate and optimum corn grain yield in multiple sites in IL and KY with and without cover crops.



Thank you for reading through our 2020 NLID Virtual Field Day materials. Additional information on the NLID Plot, including harvest data and treatment ROI, will be available on our website and social media platforms after harvest. The data can also be emailed to readers, contact the Wayne CFB for more information.



Find us at:

Wayne CFB Website – www.waynecfb.com/nlid
Wayne CFB Office – (618) 842-3342
Facebook – www.facebook.com/waynefarmbureau
Instagram – www.instagram.com/waynecountyfarmbureau
Twitter – www.twitter.com/WayneCFB

To learn more about all other IFB Nutrient Stewardship Virtual Field Days, visit: www.ilfb.org/FieldDays

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PIKE Ag, LLC