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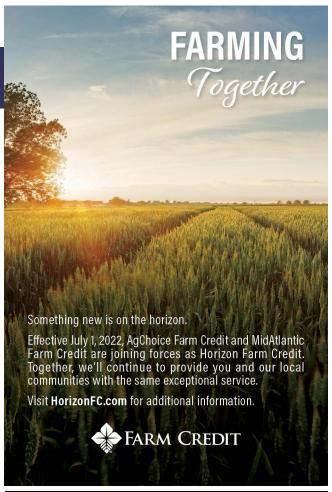


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- **MESSAGE** from the expo chairs
- JULY 13 I tour day agenda
- JULY 14 I expo & demo day agenda
- **SPEAKER** biographies
- **INDOOR** map & exhibitors
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PLATINUM













































WELCOME TO THE SHOW





We are very excited to bring the 2022 Manure Expo back to Pennsylvania. Finally, we have a super spreader event worth attending.

Today's agricultural industry continually faces increased environmental scrutiny, especially in the Chesapeake Bay Watershed. The overarching theme of "Professionalism in Nutrient Management" and this year's slogan, "The application of science and technology (and vice versa)" is very timely. Whether you have traveled here from near or far, we are glad you are here. If you traveled far, you might be interested in learning more about Franklin County agriculture. Local attendees might be interested in learning what the agricultural industry and its specialists are bringing to your home turf. Manure Expo melds international expertise, technological advancements, and local utilization. It is an opportunity to see where we are as a manure application industry and to look at where we might go.

Many people have worked very hard to make this event happen, and we simply do not have enough space to thank them all. At the top of our "thank you" list are hosts Leslie Bowman and Lesher's Poultry Farm. They continually evaluate their operation to make manure nutrients benefit their agronomic, economic and environmental goals while implementing technologies like grid soil sampling and variable rate nutrient applications. Our local agricultural industry (equipment dealers, manure haulers, etc.) has been an invaluable resource and we truly appreciate the time and effort extended to us. We wish to thank the Franklin County Conservation District, Penn State Extension and the Pennsylvania State Conservation Commission for their support, as well as their recognition that our time commitments to this event bring unmeasurable value to the objective of balancing agricultural production and environmental stewardship. Our show manager, Annex Business Media, and its fantastically organized team bring professional continuity and management experience. The entire Annex crew deserves a special nod as they have worked tirelessly behind the scenes to assure that the vast details necessary for success are addressed. Of course, this event would not occur if not for the support of the vendors that bring their boundless knowledge and cutting-edge industry technology to the show, allowing us all to move forward together. We hope you take time to learn from them, and maybe even do a little business. Attendees will also notice a lot of volunteer workers on the show grounds. We hope you will share our gratitude to them for their help.

Finally, we want to remind you that the nature of this event does present biosecurity risk to anyone that is returning to work in the animal industries. Please take special precautions as you move from this event to your next visit to livestock and poultry

Whether you've come from near or far, we hope you enjoy the North American Manure Expo's theme of "Professionalism in Nutrient Management" and this year's slogan of "The application of science and technology (and vice versa)."



Robb Meinen Penn. State Dept. of Animal



Jennifer Bratthauar Ag Conservation Technician Franklin County Conservation

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2022 AGENDA - JULY 13



START TIME	MORNING TOUR SCHEDULE Registration and payment required for morning tours; fee includes transportation & lunch voucher. Buses depart from the expo grounds					
7:30AM	TOUR REGISTRAT	ION OPENS				
8:00 8:30 9:00 9:30 10:00AM	Robotic dairy & poultry tour	buses departure times				
8:30AM	Stream tour bu	ses depart				
11:30AM	TRADE SHOW OPENS					
	AFTERNOON & EVENING SCHEDULE					
1:30PM	Buses start to load for agitation demonstration tour					
2:00PM - 4:00PM	Buses depart & will rotate between agit	ation demo site and expo grounds.				
	TRADE SHOW REMAINS OPEN for business at expo grounds during afternoon demonstrations and industry sessions					
5:00PM - 7:00PM	INDUSTRY SI	ESSIONS				
	TENT 1: PUCK PUMP SCHOOL	TENT 2: DAIRY POWER SMART MANURE AERATION SYSTEMS				
	Learn the capabilities & possibilities of Lightspeed to gain performance efficiencies. Discuss roles & responsibilities of team members to increase crew efficiencies.	Using data, the team will demonstrate that aeration of manure reduces emissions, decreases carbon footprint and has health benefits for both workers and animals.				
7:00PM	EXPO GROUNDS CLOSE					

TOUR DESCRIPTIONS

Robotic Dairy & New Poultry Layer Tour

This tour will stop at a dairy that has recently installed robotic milking, feeding, and manure collection technologies where the producers will provide a demonstration of the systems. The second stop of this tour will be at a large, under-construction, egg layer farm that will be close to populating their eight barns at the time of the tour. The layer farm tour will showcase the operation to bus attendees, highlighting their innovative manure handling practices, including belt drying and centralized manure collection.

Stream Tour

The stream tour will explore impacts of excess nutrients on a local stream as well as providing hands-on opportunities for attendees to assess stream health and the benefits of buffers and stream restoration practices. One stop will be at a stream located in an agricultural area and another will be at the stream's forested headwaters.

Agitation Demonstrations

Between 2:00pm and 4:00pm on July 13, pit agitation takes centre stage. Jump on a bus and be driven to our agitation pit, free of charge! Participants will have an opportunity to watch different brands of manure agitators and pumps at work. Manufacturers and dealers will be on hand to explain their technologies and answer any questions.

Buses will rotate between the Expo grounds and agitation pit non-stop between 2:00pm and 4:00pm. Please stop by our trade show and learn about the latest technology and products serving your industry!

AGITATION EQUIPMENT ON DISPLAY: Nuhn Gearbox Lagoon Pump

Bazooka Wolverine Agitation Boat Nuhn Lagoon Crawler Bazooka Renegade Agitation Trailer



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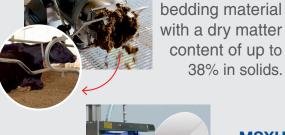
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2022 AGENDA - JULY 14

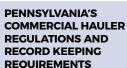


START TIME	TENT 1 Sponsored by PA State Conservation Commission	TENT 2 Sponsored by Yokahama	TENT 3 Sponsored by Farm Credit	TENT 4 Sponsored by Oxbo			
8:00AM	Manure injection of digestate Sailesh Sigdel	Generate better as-applied maps to document manure applications Rich Meinert	Precision agriculture and variable rate manure application at Lesher Poultry Farm Leslie Bowman	Investing in soil health and manure Nick Hepfl			
8:30AM	Injecting manure into cover crops Melissa Wilson	Economic considerations for the development of a decision support tool for manure management systems Varma Vempalli	Weed seeds in manure Chryseis Modderman, Stephanie Kulesza	Calculating the economic and environmental benefits of low disturbance manure injection Eric Rosenbaum			
9:00AM	Side-dressing emerged corn with injected liquid manure using a drag hose Glen Arnold	Manure management at Herbruck's new Blue Springs layer farm Vince Herbruck, Ric Herrera, Jered Birkbeck, Russell Phenicie How we run our manure service in Indiana Rob Buiter Variable rate manuapplications – are y ready for it? Eric Rosenbaum					
10:30AM	D:30AM LIVE SOLID MANURE DEMONSTRATIONS Spreaders & Compost Turners *Demo materials supplied from cattle farms only*						
12:30PM	PA's Commercial Hauler regulations and record keeping requirements Mike Aucoin		O & TRADESHOW GROU				
1:00PM	Food processing residual application in PA Kevin Beer		EN FROM 7:30AM - 5:00 RE TO VISIT THE EXHIB AND FOOD VENDORS				
1:30PM	Protecting private drinking water resources Danielle Rhea, Susan Boser, Andy Yencha		k them for their continued North American Manure	• •			
2:00PM		LIQUID MANURE APPLI	CATION DEMONSTRATIO	NS			
3:30PM		LIVE ACTION SPI	LL RESPONSE DEMO				
5:00PM	EXPO GROUNDS CLOSE						



SIDE-DRESSING **EMERGED CORN WITH INJECTED LIQUID** MANURE USING A DRAG

GLEN ARNOLD OHIO STATE UNIVERSITY EXT Field Specialist, Manure Nutrient Management Systems Associate Professor



MIKE AUCOIN PENNSYLVANIA STATE CONSERVATION COMMISSION Conservation Program Specialist



KEVIN BEER PENNSYLVANIA DEPARTMENT OF **ENVIRONMENTAL PROTECTION Environmental Group** Manager, Bureau of Waste Management



DANIELLE RHEA SUSAN BOSER **ANDY YENCHA** PENNSYLVANIA STATE UNIVERSITY Water Resources Educators



Applying liquid manure to corn to replace purchased side-dress nitrogen captures the true value of the manure nutrients and keeps more nutrients in the field. The nitrogen savings can pay for the manure application.

Glen Arnold is a Professor with Ohio State University and serves as an extension Field Specialist in the area of Manure Nutrient Management Application, His research efforts have been to move livestock producers and commercial manure applicators toward applying manure to wheat and corn during the growing season to capture more manure nutrients. His work with emerged corn involves using three 12-row manure side-dress toolbars to subsurface apply swine and dairy manure through the V4 stage of growth.

Pennsylvania Act 49 Commercial Manure Hauler and Broker record keeping requirements will be reviewed.

Michael Aucoin graduated from Delaware Valley University with an agronomy degree in 1995 then started his career at the Bucks County Conservation District as a Resource Conservationist. In 1999 Michael was hired as a conservation program specialist with the PA Dept of Agriculture/State Conservation Commission in which he administers the state's Nutrient Management, Commercial Manure Hauler and Broker and Odor Certification Programs.

Information applicable to entities generating residuals from food processing operations and the available permit exemption [under 25 Pa. Code § 287.101(b) (2)] for processing and disposal of the residuals in the course of normal farming operations through implementation of best management practices.

Kevin Beer has served the commonwealth through his work with Pa Department of Environmental Protection for the past eleven years. In his current role as Compliance and Technical Support Section Chief in the Bureau of Waste Management, Kevin strives to protect people and the environment by promoting safe and effective handling practices in materials management, including effective processing of waste streams for beneficial use. Kevin has a M.S. in chemistry from the University of Pittsburgh.

Manure application setbacks prevent contamination of surface water and groundwater. In Pennsylvania, there are no statewide well construction regulations for private water systems, so following setbacks are especially important for preventing manure contamination in wells and springs. This session will focus on what groundwater, how it moves, how contamination can happen, and how we can keep our drinking water resources clean.

Danielle is a statewide water resources educator for Penn State Extension, based in Jefferson County. She provides educational programming and products related to private drinking water, pond management, agriculture and water, stormwater management, and watershed protection and restoration. Danielle is a certified Act 38 Nutrient Management Planner/Reviewer and holds a Master of Science degree from Duquesne University in Environmental Science and Management.

Susan Boser is a water resources educator with Penn State Extension based in Beaver County, Pennsylvania. She is a graduate of West Virginia University where she earned her Bachelor of Science in Agriculture with a major in Environmental Protection. Susan interacts with clientele throughout Western Pennsylvania via educational programs focusing on the areas of private water supply education, pond management, stormwater, youth water education and pesticide education.

Andy helps Pennsylvania's residents, businesses, and local governments find answers to water related questions to protect the Commonwealth's shared natural resources. His current focus areas include drinking water protection, testing and treatment, and urban stormwater education. His work highlights the important ways land use and water quality are connected within the geographic boundaries of Pennsylvania's watersheds.

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PRECISION AGRICULTURE AND VARIABLE RATE MANURE APPLICATION AT LESHER POULTRY FARM

LESLIE J. BOWMAN LESHER'S POULTRY FARM, INC. Crops Manager, Nutrient Management Specialist

HOW WE RUN OUR COMMERCIAL MANURE SERVICE IN INDIANA

ROB BUITER FASTRACK FERTILIZER

Owner

LIVE ACTION MANURE SPILL RESPONSE DEMO

KEVIN ERB UNIVERSITY OF WISCONSIN **EXTENSION** Director, Conservation Professional Training Program UW-Madison Divison of Extension Natural Reesources Institute

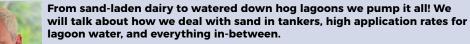
ROBB MEINEN PENNSYLVANIA STATE UNIVERSITY Senior Extension Associate, Department of Animal Science

INVESTING IN SOIL HEALTH AND MANURE

NICK HEPFL CLEARFIELD COUNTY CONSERVATION DISTRICT AGRICULTURAL TECHNICIAN



Leslie is the crop manager at Lesher's Poultry Farm, Inc. His job duties include directing manure application and sales. He has nutrient management plan writer, odor management and manure broker certifications. He has more than 25 years of experience with precision farming.



Rob Buiter is the owner of Fastrack Fertilizer, a custom manure application service in northwest Indiana that runs drag line, truck tankers and tractors with tank for swine

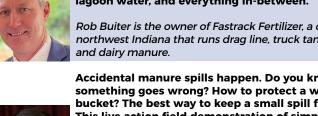
Accidental manure spills happen. Do you know the action steps to take when something goes wrong? How to protect a well or tile inlet using a 5-gallon bucket? The best way to keep a small spill from becoming a major headache? This live action field demonstration of simple, effective techniques will prepare you and your employees to take the right steps to contain and clean up a manure spill.

Kevin Erb is the director of the Conservation Professional Training Program at University of Wisconsin-Madison-Extension. Erb has more than 30 years' experience with Extension, focusing on manure management, nutrient management plan implementation and training of conservation professionals. Kevin initiated one of the nation's first manure spill response training using actual manure, and has created more than 20 live spill response demonstrations around the US and Canada.

Robb Meinen is a co-chair of the 2022 North American Manure Expo. Meinen has worked in Penn State's Department of Animal Science for 22 years and has acted as the lead educator for Pennsylvania's manure hauler and broker certification program since its inception.

This session will cover the key properties of your soil and how investing in manure management and soil health will impact your bottom line and the future of your farm.

Nick Hepfl is the agricultural technician with Clearfield County Conservation District. After growing up on a small family dairy farm in western Pennsylvania, Nick began working on several thousand-acre grain and beef farm while attending college at Clarion University for Environmental Biology. Nick has been with the Conservation District for six years and works with approximately 500 farms to implement programs and promote soil health.

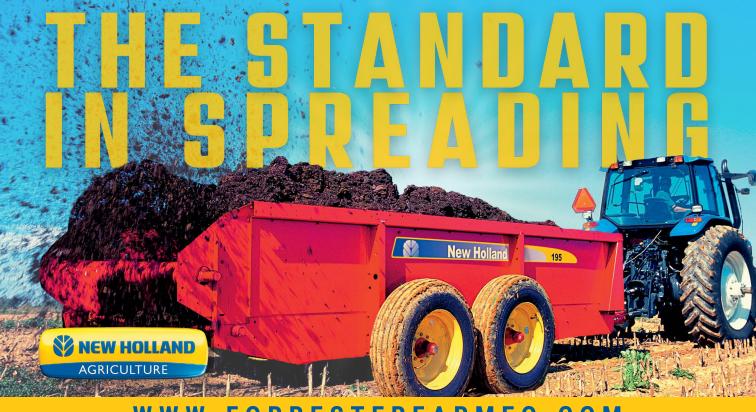












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MANURE MANAGEMENT AT HERBRUCK'S NEW BLUE SPRINGS LAYER FARM

VINCE HERBRUCK
Manager, Poultry Systems

RIC HERRERA VP, Marketing

JERED BIRKBECK
Director, Feed & Fertilizer Ops

RUSSELL PHENICIE Production Manager, Blue Springs Egg Farm



Sharing the technology and innovation employed to convert our hen's litter into a nutrition-rich fertilizer product. In addition to the reduction in resources used to produce the product, it also helps to complete the organic cycle that is part of our overall sustainability plan.

Vince Herbruck is a third-generation egg farmer with Herbruck's. He is responsible for all the layer aviary equipment and systems engineering dealing directly with the birds. Vince has worked in nearly every department at Herbruck's in some capacity for the last 15 years.

Ric Herrera joined Herbruck's in 2019 as the vice president of Marketing. He is responsible for managing the direction of Herbruck's brand, consumer and customer marketing, and branded retail sales. Ric holds a B.S.P9:P17 in Business Management and Marketing from SUNY. He has over 30 years of marketing, sales, and management experience.



Jered Birkbeck joined Herbruck's in 2018 and is the director of feed manufacturing and fertilizer processing. He is responsible for leading the fertilizer departments in four of Herbruck's facilities to process litter into value-added fertilizer, overseeing the three company feed mills to produce feed for our hens and pullets, and leading capital projects in those areas. Jered holds a B.S. in Feed Science from Kansas State University and has 25 years of experience in feed mill management.

Russell Phenicie joined Herbruck's in June of 2021 as the production manager at Blue Springs Egg Farm, Herbruck's newest farm opening in Mercersburg, PA. He is responsible for the care of the birds and fertilizer processing. Russell holds a B.S. in Poultry Science and an M.B.A. from Penn State University. Russell has been involved in agriculture his entire life and operates his family's beef farm.



WEED SEEDS IN MANURE

STEPHANIE KULESZA NORTH CAROLINA STATE UNIVERSITY Nutrient management and animal waste specialist, Dept. of crop and soil

CHRYSEIS MODDERMAN UNIVERSITY OF MINNESOTA Extension educator, crops manure nutrient

management

sciences



There are several methods that reduce weed seed viability both before and after animal digestion. In this presentation we'll take a look at a few studies that show what works and what doesn't for weed seed destruction.

Stephanie Kulesza is the nutrient management and animal waste specialist in the Department of Crop and Soil Sciences at NC State University. Her research focuses on the use of animal manures in the wide range of cropping systems found in North Carolina, focusing on barriers to adoption of manure in fertility programs.

Chryseis Modderman is an extension educator with the University of Minnesota where she focuses on manure management as a crop nutrient source. She is originally from a farm family in west-central Minnesota, and prior to working at UMN, she was a research technician at North Dakota State University.

CAN WE CREATE A BETTER AS-APPLIED MAP TO DOCUMENT MANURE APPLICATIONS?

RICHARD MEINERT UNIVERSITY OF CONNECTICUT Associate Extension Educator, Nutrient Management



We have developed a software program to create detailed as-applied maps from GPS coordinates and scale weights or flow meter readings for farm material applications. Current commercially available software does not sum applications for multiple passes of material made to a specific area of a field, nor does it accurately reflect the different rates per acre for material applied on the inside versus the outsides of turns. Our software handles both of these deficiencies and can provide a more accurate accounting of the material applied and the accuracy of the application process.

Rich has been an extension educator at UConn for 34 years, since receiving his Master's Degree from Penn State in Dairy Science. His duties include dairy and livestock production, nutrient management planning, and crop production. He wrote his first Nutrient Management Plan for a dairy in 1989 as part of the original Long Island Sound Water Quality Study.





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CALCULATING THE ECONOMIC & ENVIRONMENTAL BENEFITS OF LOW DISTURBANCE MANURE INJECTION

ERIC ROSENBAUM

PENNSYLVANIA 4R ALLIANCE Executive Director, PA 4R Alliance Agronomist, Rosetree Consulting LLC The PA4R Nutrient Stewardship Alliance will share farm data calculating the economic and environmental benefits of LDI.

VARIABLE RATE MANURE APPLICATION -ARE YOU READY FOR IT?

ERIC ROSENBAUM

PENNSYLVANIA 4R ALLIANCE Executive Director, PA 4R Alliance Agronomist, Rosetree Consulting LLC



Eric is the senior agronomist with Rosetree Consulting LLC and serves as the executive director of the PA 4R Nutrient Stewardship Alliance, PA4R is a statewide organization of ag retailers, regulatory agencies, environmental groups, and farm organizations promoting nutrient stewardship on PA farms.

Whether you're using VR technology to manage application setbacks or

managing yield zones with variable application rates, the PA4R Alliance, along with Granular, will show you the steps for creating a VR manure script.

MANURE INJECTION OF DIGESTATE

SAILESH SIGDEL

PENNSYLVANIA STATE UNIVERSITY PhD Candidate, Ag & Environmental Plant Science



Evaluating liquid digestate injection vs. surface application for NH3-N conservation and corn yield response.

Sailesh Sigdel's current research explores improving nitrogen management and amendment in no-till dairy cropping systems.

ECONOMIC CONSIDERATIONS FOR THE DEVELOPMENT OF A DECISION SUPPORT **TOOL FOR MANURE MANAGEMENT SYSTEMS** We are developing a tool that tracks the environmental and economic impacts of several technologies and systems available to dairy farmers. We developed several "scenarios" defined by the unit processes used in the capture, treatment, storage, and usage of dairy manure. Environmental and economic results are integrated into the multi-criteria decision algorithm. Results can be used by farmers to assist in their decision-making in addressing options for improved manure management.

VARMA VEMPALLI UNIVERSITY OF ARKANSAS Research Associate,

Chemical Engineering



Dr. Vempalli S. Varma is an environmental engineer with a research focus on manure management and modeling GHG emissions. He holds a doctoral degree from IIT Guwahati, India. Later he joined Agricultural Research Organization, Israel as Post Doc and worked on "Process control, GHG emissions, odors, sanitary and post-doc aspects" during composting of livestock manure and industrial sludge. Currently, he works with Dr. Greg Thoma's research group at the University of Arkansas on the "Decision support system for dairy and swine manure management". Further, he is coordinating model development for dairy manure management systems for the RuFaS project at Cornell University.

INJECTING MANURE INTO COVER CROPS

MELISSA WILSON

UNIVERSITY OF MINNESOTA Associate Professor and Extension Specialist, Manure Nutrient Management & Water Quality, Department of Soil, Water, and Climate



This presentation will cover research in Minnesota where manure was injected below the cover crop and how the combined practices affected the following corn crop.

Melissa Wilson is an associate professor and manure nutrient management specialist at the University of Minnesota with appointments in both research and extension. Her research focuses on filling knowledge gaps about manure nutrient cycling as farming practices, weather and technologies change. She is also currently evaluating techniques for opening up the window of opportunity for manure application.

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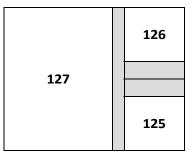




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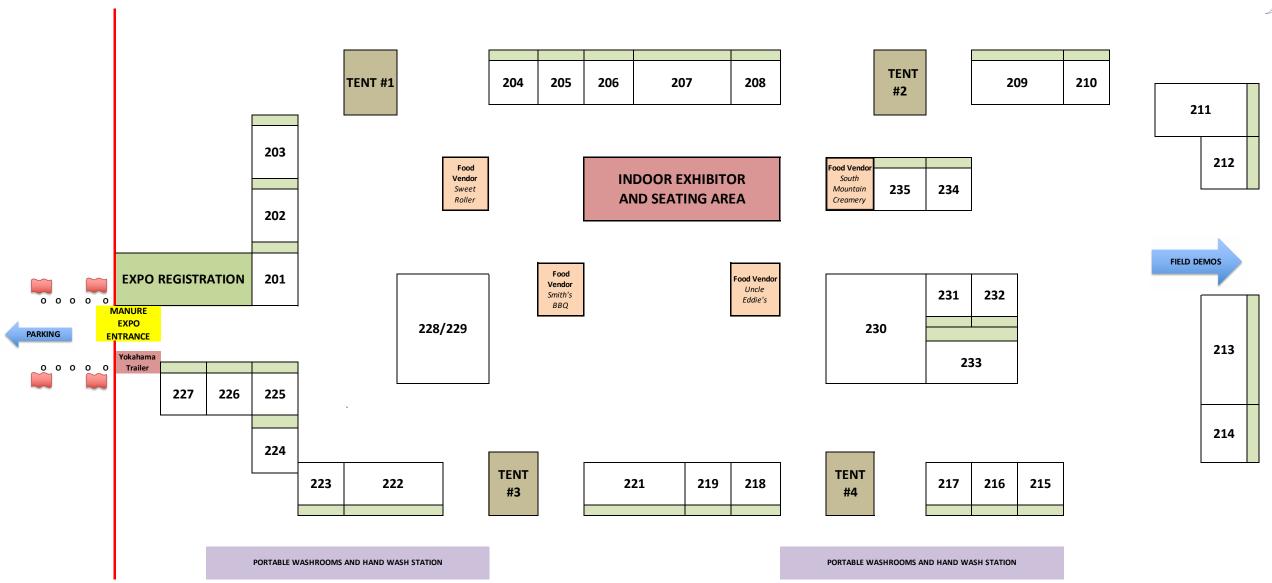


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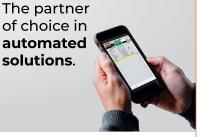
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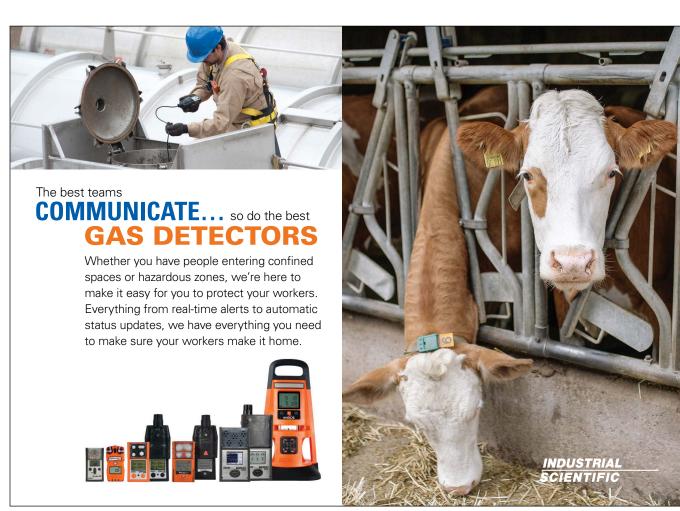








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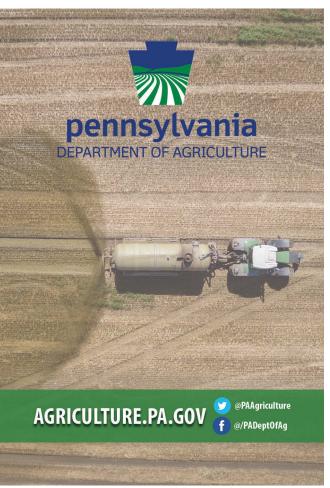


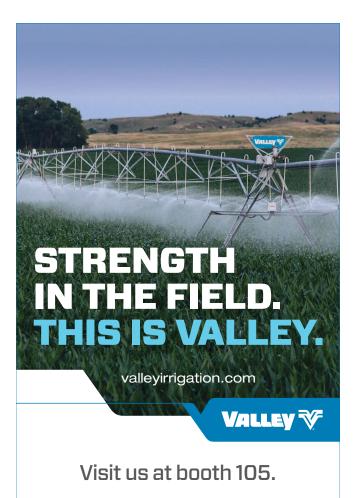
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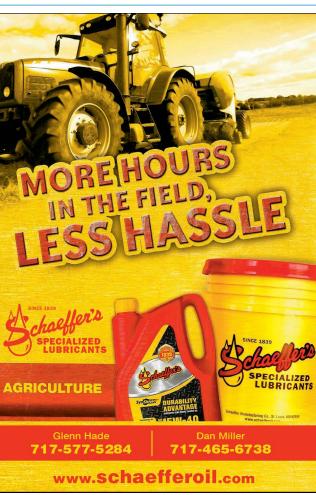
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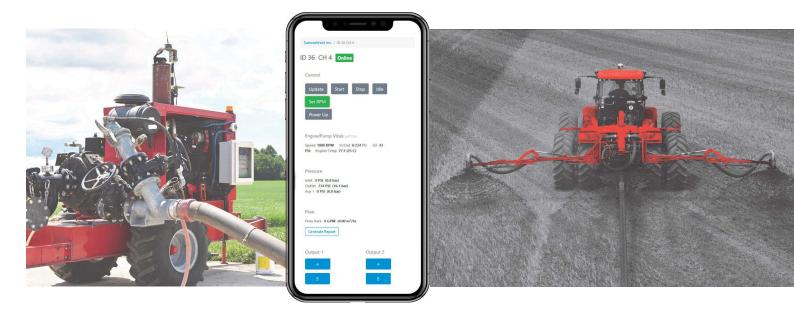












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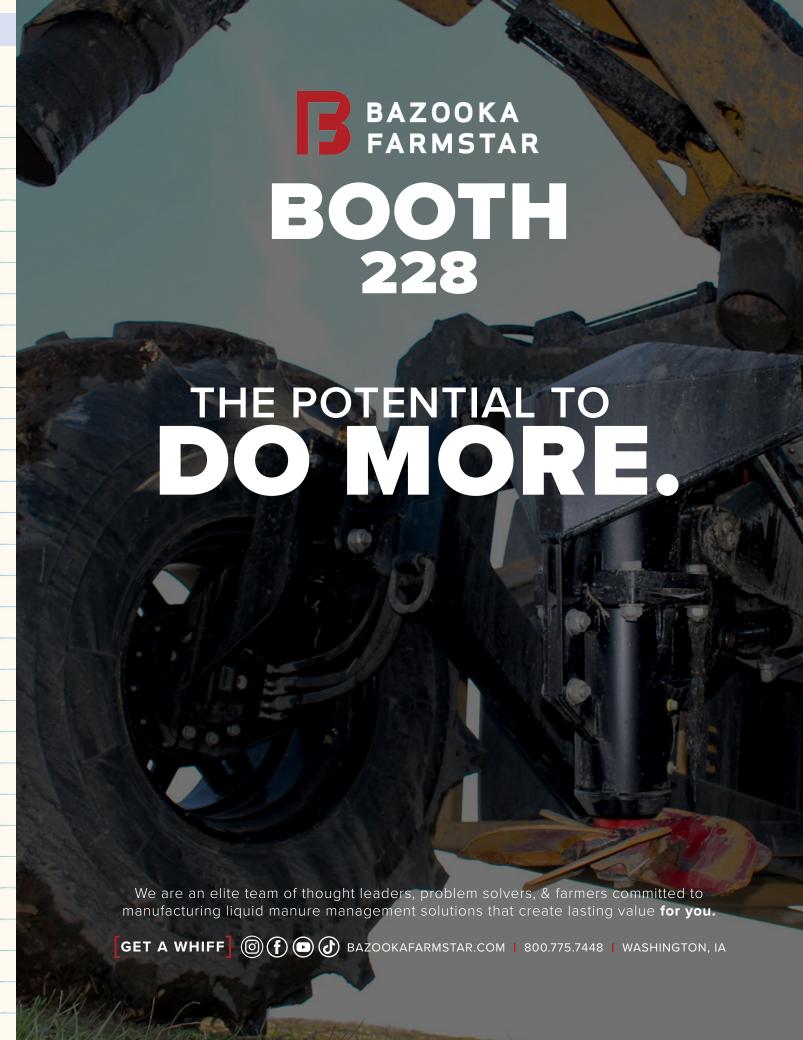
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