

## **Educational Aids Blue Ribbon Awards Past Winners**

2023

### A. Electronic

#### *I. Design or Decision Tools*

No Recipients for 2023

#### *II. Stand-Alone Electronic Media*

Charles Swanson, Guy Fipps  
“Propellor Flow Meter Installation Videos”  
Texas A&M Agrilife Extension Service

Daniela Jones  
“Data-Driven Decisions for Food and Energy”  
North Carolina State University

Paul Jones, William E. Field, Matthew Jordan, Will Jackson, Kyle Bates  
“Ned Stoller: Agricultural Assistive Technology”  
Purdue University/National AgrAbility Project, MJ Multimedia

Mahmoud Sharara, Laura Riddle  
“Innovation in Swine Manure Management”  
North Carolina State University

#### *III. Ongoing Communications*

Shawn Ehlers, Ed Sheldon  
“PREPclips- Purdue Rural Emergency Preparedness Program Educational Video Clips”  
Purdue University

#### *IV. Websites*

Paul Jones, William E. Field, Amy Masson, Richard Fox  
“National AgrAbility Project”  
Purdue University/National AgrAbility Project, SUMY Designs

### B. Publications

#### *I. Publications – Short (less than 4 pages)*

No Recipients for 2023

#### *II. Publications – Medium (5-16 pages)*

Simerjeet Virk, Ravi Meena  
“Pulse Width Modulation Technology for Agricultural Sprayers”  
University of Georgia

Bibek Acharya, Vivek Sharma, Charles Barrett, Sudeep Singh Sidhu, Lincoln Zotarelli, Michael D. Dukes  
“Methods to Quantify In-Field Nutrient Leaching”  
University of Florida

#### *III. Publications – Long (17 or more pages)*

Stacia L. Davis Conger, Jeffrey S. Beasley, Jay McCurdy  
“Irrigation BMPs for Golf Courses in Louisiana and Mississippi”  
LSU AgCenter, Mississippi State University

Paul Jones, William E. Field, Dawn Minns, Cheryl Tevis, Jon Smith  
“AgrAbility: 30 Years of Impact”  
Purdue University/National AgrAbility Project, Uppercase Design, Ag Perspectives, Inc

S. Dee Jepsen, Forrest Lang, Jane Wright, Annie Steel, Susie Young, Tony Carrel  
“Ready, Set, ... Mow!”  
The Ohio State University, Purdue University

*VI. Publications - Series*

Ehsan Ghane  
“Choice of Pipe Material Affects Drainage Performance and Cost”  
Michigan State University

Erdal Ozkan  
“Effective Pesticide Application in Orchards and Vineyards”  
The Ohio State University

C. High Impact Extension

Leslie Johnson, Rick Koelsch, Amy Schmidt, Larry Howard, Aaron Nygren, Agustin Olivo, Amber Patterson, Michael Sindelar, Todd Whitney, Agnes Kurtzhal, Chryseis Modderman, Blythe McAfee, Tiffany O’Neill, Andy Scholting  
“Interactive Nutrient Management Decision-Making Exercise”  
University of Nebraska-Lincoln, University of Minnesota, Nebraska Department of Environment and Energy, Nutrient Advisors

2022

A. Electronic & Web-Based Delivery

*I. Electronic Delivery: DVDs, Web-Based Computer Programs, PowerPoint Shows, Web-Based Video, Audio-Podcasts, Video-Podcasts*

Ehsan Ghane  
“Web-based computer program: Drain Spacing Tool”  
Michigan State University

Laura Christianson, Lauren Lurkins, Luciano Alves de Oliveira, Scott Anderson, Ronnie Chacon, Janith Chandrasoma, Reid Christianson, Kristin Greer, Bryan Maxwell, Austin Omer, Jim Polus, and Niranga Wickramaratne  
“Monitoring Magic: Woodchip bioreactor water monitoring videos for volunteers”  
University of Illinois, Illinois Farm Bureau

John McMaine, Anthony Bly; Keely Moriarty  
“Streamlines Podcast - Conservation Drainage Season”  
South Dakota State University

John McMaine; Cable Hardin  
“Conservation Drainage - Storing Water in the Landscape video series”  
South Dakota State University

Paul Jones, William E. Field, Matthew Jordan, Will Jackson, Kyle Bates  
“AgrAbility: Restoring Hope, Renewing Productivity with Doug VerHoeven”  
National AgrAbility, Purdue University, MJ Multimedia

S. Dee Jepsen, Justin Pulley, Karen Funkenbusch  
“Virtual Reality Tractor Training Course”  
Ohio State University, University of Missouri, Victory Enterprises

Amy Millmier Schmidt, Mara Zelt, Leslie Johnson, Rick Koelsch, Erin Cortus, Melissa Wilson, Daniel Andersen

“Merits of Manure Content Library”  
University of Nebraska, Lincoln, University of Minnesota, Iowa State University

*II. Websites*

Andrea Ludwig, Natalie Bumgarner, Celeste Scott  
“Tennessee Smart Yards at UT Extension”  
University of Tennessee

B. Publications, Print or Electronic

*III. Publications – Short (less than 9 pages)*

Gary Roberson, Jason Ward, David Jordan  
“Peanut Digger-Shaker-Inverter Optimization”  
North Carolina State University

Mahmoud Sharara, Maxwell Owusu-Twum  
“Sludge Sampling in Anaerobic Treatment Swine Lagoons”  
North Carolina State University

Josh Jackson  
“Using Drones to Monitor Fence Lines”  
University of Kentucky

Erdal Ozkan, Emilio Gil  
“Strategies to Maximize Pesticide Deposit and Coverage for Effective Spraying in Orchards and Vineyards”  
Ohio State University, Polytechnic University of Catalonia, Spain

*IV. Publications – Medium (9-16 pages)*

Ehsan Ghane  
“Shallow Drains”  
Michigan State University

*V. Publications – Long (17-32 pages)*

Claire Burnham, Morgan Hayes, Robert Coleman, Staci McGill  
“Riding Arena Footing: Materials and Characteristics, Riding Arena Maintenance: Dragging and Watering, Riding  
Arena Maintenance: Equipment Guide”  
University of Kentucky

Kristen Conroy, Karen Mancl  
Low Pressure Piping in Onsite Wastewater Treatment Systems for Ohio  
Ohio State University

*VI. Publications, Comprehensive (33 or more pages)*

Tiffany Messer, Amy Napoli, Jaci Foged, Leanne Manning, Sarah Roberts, Lee Sherry, Jackie Steffen, LaDonna  
Werth, Becky Schuerman, Karen Wedding  
“Water Lessons for Preschoolers”  
University of Kentucky, University of Nebraska-Lincoln

C. Extension Methods and Impact

*VII. High Impact Extension Methods*

Paul Jones, William Field  
“AgrAbility Virtual State Fair”  
Purdue University

**2021**

A. Electronic & Web-Based Delivery

I. Electronic Delivery: DVDs, Web-Based Computer Programs, PowerPoint Shows, Web-Based Video, Audio-Podcasts, Video-Podcasts  
No recipients for 2021

II. Websites

Shellcast

Sheila Saia, Stanton Parham, and Natalie Nelson

Soil Moisture Monitoring Showcase

Jacob P. Rix, Tsz Him Lo, Drew M. Gholson, E. Stephen Caples, Karen A. Brasher

B. Publications, Print or Electronic

III. Publications – Short (less than 9 pages)

Irrigation Reference Guide for Corn, Cotton, Peanut, and Soybean

David Hall and Wesley Porter

IV. Publications – Medium (9-16 pages)

Consideration of a Pull-Plug Sedimentation Basin for Dairy Manure Management

Tim Canter, Teng Teeh Lim, and Troy Chockley

Long-term (1893-2012) Changes in Monthly, Growing Season, and Annual Precipitation Trends and Magnitudes in Central Nebraska

Suat Irmak

V. Publications – Long (17-32 pages)

No recipients for 2021

VI. Publications, Comprehensive (33 or more pages)

Whole Farm Conservation Best Practices Manual

Liz Ripley, Mark Licht, Kay Stefanik, Sarah Carlson, Stefan Gallens, Matt Helmers, Chris Hay, Jackie Comito, Ann Staudt, Jamie Benning, Nathan Stevenson, and Jim Jordahl

C. Extension Methods and Impact

VII. High Impact Extension Methods

No recipients for 2021

**2020**

**A. Electronic & Web-Based Delivery**

*I. Electronic Delivery: DVDs, Web-Based Computer Programs, PowerPoint Shows, Web-Based Video, Audio-Podcasts, Video-Podcasts*

**Paul Jones, William Field, Matthew Jordan, Will Jackson, Bill Dodd, and Mattie McIntosh**

“AgrAbility: Renewing Hope, Restoring Productivity”

**Mary Love Tagert, Michaela Parker, and Blade Hodges**

“Soil Sensor Installation”

**Carmen Agouridis, Amanda Gumbert, and Brian Volland**

“KYH2O”

**S. Dee Jepsen, Kent McGuire, Tim Hicks, Shawnda Vega, Scott Bell, Elise Stoddard, and Victoria Shaw**

“Cultivating Safe Farm Operations: An eLearning Safety Series”

*II. Websites*

**Shawn Ehlers, Ed Sheldon, and William Field**

“IN-PREPrepared - Indiana Purdue Rural Emergency Preparedness [www.inprepared.org](http://www.inprepared.org)”

**B. Publications, Print or Electronic**

*III. Publications – Short (less than 9 pages)*

**Sylvester Badua, Ajay Sharda, Keith Cockerline, Jonathan Fabula, and Ignacio Ciampitti**

“Soy-Protein: An Environment-Friendly Seed Lubricant for Pneumatic Row Crop Planters”

*IV. Publications – Medium (9-16 pages)*

**Lori Duncan and Tyson Raper**

“Cotton Nitrogen Management in Tennessee”

**Julie A. Fowler, Alison K. Ludwig, Conor D. Barnes, Dominic J. Cristiano, Hugh Ellerman, Dillon T.**

**Fogarty, Katharine F.E. Hogan, Jessica E. Johnson, Daniel Morales, Rubi Quiñones, and Dirac Twidwell**

“Ecological Resilience”

*V. Publications – Long (17-32 pages)*

*None*

*VI. Publications, Comprehensive (33 or more pages)*

**Agustin Olivo, Amy Millmier Schmidt, Richard Koelsch, and Jennifer Keshwani**

“What is Going on Under Our Feet? Soil Biology Inspection Guide for Students”

**Harold Watters and Erdal Ozkan**

“Corn, Soybean, Wheat, and Forage Field Guide”

**C. Extension Methods and Impact**

*VII. High Impact Extension Methods*

**Sherry Lynn Blunk**

“The Basics of Straw Bale Gardening: A Yolo County Fair Educational Display based on research-based findings and practical lessons learned from a straw bale demonstration garden”

**2019**

**A. Electronic & Web-Based Delivery**

*I. Electronic Delivery: DVDs, Web-Based Computer Programs, PowerPoint Shows, Web-Based Video, Audio-Podcasts, Video-Podcasts*

**Carmen Agouridis and Amanda Gumbert**

“Backyard Streams”

**J. Bryan Unruh, Esen Momol, Michael Thomas, C.J. Bain, Thomas Wichman, Laurie Trenholm, John**

**Bossart, and Michael D. Dukes**

“Florida Fertilizer Ordinance Mobile Web App Matches Work Locations to Applicable Regulations”

**John Fulton and Jenna Lee**

“Ohio State PLOTS (mobile application)”

**Rebecca G. Lawver and Michael L. Pate**

“Safety in Agriculture for Youth (SAY) Teacher Update”

*II. Websites*

**Sammy Sadaka**

Arkansas grain Drying and Storage, <https://www.uaex.edu/farm-ranch/crops-commercial-horticulture/grain-drying-and-storage/>

**Eileen Fabian, Daniel Hofstetter, Rebecca Larson, Horacio Aguirre-Villegas, and Carolyn Betz**

Virtual Farm-Dairy, [www.virtualfarm.psu.edu](http://www.virtualfarm.psu.edu)

**B. Publications, Print or Electronic**

*III. Publications – Short (less than 9 pages)*

**Edral Ozkan and Kathy Smith**

“Calibrating Small Boom Sprayers and Backpack Sprayers for Forestry Herbicide Applications”

**Steve Hanson, Leslie Beck, Nancy Flores, Stephanie Walker, Mark Marsalis, and Richard Heerema**

“GMO Crops in New Mexico Agriculture”

**Sammy Sadaka**

“Grain Bin Entrapment and Engulfment Causes, Prevention and Rescue”

**Danny H. Rogers, Freddie R. Lamm, and Jonathan Aguilar**

“Subsurface Drip Irrigation (SDI) in Kansas: An Overview”

*IV. Publications – Medium (9-16 pages)*

**A.J. Tarpoff, Justin Waggoner, Christopher Reinhardt, Joel DeRouchey, Sandy Johnson, Eli Sheppard, and Joe Harner**

“Designing a Bud Box for Cattle Handling”

**Steve Clarke, Arlene Robertson, Colleen Fitzgerald-Hubble, Andrew Jamieson, and Paul Gripe**

“Electricity Generation Using Small Wind Turbines for Home or Farm Use”

**Vivek Sharma**

“Irrigation Management: Basics of Soil Water”

*V. Publications – Long (17-32 pages)*

No Recipients for 2019

*VI. Publications, Comprehensive (33 or more pages)*

No recipients for 2019

**C. Extension Methods and Impact**

*VII. High Impact Extension Methods*

No recipients for 2019

**2018**

**A. Electronic & Web-Based Delivery**

- 1. Electronic Delivery: DVDs, Web-Based Computer Programs, PowerPoint Shows, Web-Based Video, Audio-Podcasts, Video-Podcasts*

**S. Taghvaeian, J. Aguilar**

“Sensor Demonstrations”

**M. Helmers, J. Comito, A. Staudt**

“Rock your Watershed! A Game of Choice and Chance” [www.waterrocks.org](http://www.waterrocks.org),

**A.A. Andales, M. Arabi, T.A. Bauder, A.C. Bartlett, E. Wardle, K. Traff**

“Water Irrigation Scheduler for Efficient Application” <http://wise.colostate.edu>, *Web Sites*

**H. Xin and L. Vold**

Egg Industry Center Website – Iowa State University

**S. Irmak, J. Rees, G. Zoubek, B. VanDeWalle, and A. Nygren** Nebraska Agricultural Water Management Network (NAWMN) Educational Website

**A. M. Schmidt, R. Koelsch, R. Stowell, and L. Johnson**  
Nebraska Ag Site Planner

**S. Issa, C. Cheng, D. Heath, and B. Field**  
www.agconfinedspaces.org

**J. Lee, R. Colley III, E. Hawkins, K. Port, and J. Fulton**  
Ohio State University Precision Ag Website

**T. Gilmore, J. Korus, D. Martin, K. Pekarek, E. Ingram, and L. Pennisi** Pilot Watershed Science Curriculum for Natural Resources

## Publications

### III. *Publications – Short (less than 9 pages)*

**P. Jones, B. Field, D. Minns**  
“AgrAbility: A USDA Program with Demonstrated Impact”

**J. Frankenberger, B. Reinhart, K. Nelson, L. Bowling, C. Hay, M. Youssef, J. Strock, X. Jia, M. Helmers, B. Allred**  
“Questions and Answers About Drainage Water Recycling for the Midwest”

**S. Khanal, J. Fulton, E. Hawkins, K. Port, A. Klopfenstein** “Remote Sensing in Precision Agriculture – Best Management Practices for Addressing Challenges with Imagery Quality”

**A. Shah, A. Manandhar, S. Khanal, E. Ozkan**  
“Status of Biorefineries in Ohio”

**J. Linhoss, J. Purswell, D. Chesser**  
“Improving the Brooding Environment for Broiler Chicks Through a Better Understanding of Radiant Heaters: An Extension Fact Sheet Series”

**A. McLemore, J. Vogel, S. Taghvaeian** “Bioretention Cell Design Guidance for Oklahoma”

**S. Datta, S. Taghvaeian, J. Stivers**  
“Understanding Soil Water Content and Thresholds for Irrigation Management”

**Y. Liang, T. Tabler**  
“Water Use Patterns Differ Between Pad and Sprinkler Cooling”

**W. B. Smith, B. Beer, J. Chastain, L. Van Blake**  
“Solid Manure Spreader Calibration”

**S. Taghvaeian, P. Fox**  
“Agricultural Irrigation with Reclaimed Water: Oklahoma Regulation”

**M. Barton, J. Quetone Moss, S. Taghvaeian**  
“Salinity Management in Home Lawns”

**B. Yang, G. N. Odvody, J. A. Thomasson, T. Isakeit, R. R. Minzenmayer, D. R. Drake, R. Norton, E. M. Barnes, R. L. Nichols**  
“Site-Specific Management of Cotton Root Rot Using Airborne and Satellite Imagery and Variable Rate Technology”

**J. Jackson, C. Agouridis, S. Higgins, L. Moser**  
“Tire Tanks for Watering Livestock”

**A. Anandhi, Y. Yang, M. Hubenthal**

“Using Leaves as a Model for Teaching Watershed Concepts in Natural Resources Science and Engineering Programs”

**C. Henry, J. Hardke, J. Krutz, J. Massey, M. L. Reba, M. A. Adviento-Borbe**

“Innovation in Rice Irrigation Will Help Reduce Aquifer Decline”

**R. S. Frazier, S. Taghvaeian, D. Handa** “Measuring Depth to Groundwater in Irrigation Wells”

**B. Masasi, R. S. Frazier, S. Taghvaeian**

“Review and Operational Guidelines for Portable Ultrasonic Flowmeters”

**E. Ghane**

“Agricultural Engineering”

**K. Khand, S. Taghvaeian, A. Ajaz**

“Drought and its Impact on Agricultural Water Resources in Oklahoma”

**J. Nowatzki**

“AE1876 Understanding Air Temperature Inversions Relating to Pesticide Drift”

**E. Hawkins, J. Fulton, K. Port**

“Tips for Calibrating Grain Yield Monitors—Maximizing Value of Your Yield Data”

**S. Irmak**

“Simplified Forms of Deep Percolation Estimation Method below the Crop Root Zone for Silt-Loam Soils”

**S. Irmak**

“Simplified Forms of Surface Runoff Estimation Method for Silt-Loam Soils”

IV. *Publications – Medium (9-16 pages)*

**S. Clarke, D. Ward, A. Dam, A. Robertson,**

**C. Fitzgerald-Hubble, A. Jamieson**

“Lighting for Poultry with Light-Emitting Diodes (LEDs)”

**J. Shortridge**

“Using Groundwater for Agricultural Irrigation in Virginia”

**W.B. Smith**

“Home-Made Hydraulic Ram Pump for Livestock Water”

**S. Ehlers, R. Stuthridge, W. Field, Q. Geng, J. Smith** “Adaptive Hand Controls for Agricultural Engineering”

**S. Irmak**

“Evapotranspiration Basics and Estimating Actual Crop Evapotranspiration from Reference Evapotranspiration and Crop-Specific Coefficients”

V. *Publications – Long (17-32 pages)*

*No Recipients for 2018*

VI. *Publications, Comprehensive (33 or more pages)*

**H. A. Aguirre-Villegas, R. A. Larson, M. Ruark**

“Sustainable Dairy Fact Sheet Series”



**R.G. Lopez, E. S. Runkle, and A.J. Both** “Light Management in Controlled Environments”

**D. Maier, S. McNeill, K. Hellevang, K. Ambrose, K. Ijeleji, C. Jones, M. Purschwitz, K. Walker, J. Moore, L. Wetterauer** “Grain Drying, Handling, and Storage Handbook (MWPS-13)”

**C. Extension Methods and Impact**

*VII. High Impact Extension Methods*

**L. Warner, T. Borisova, M. Dukes, E. Momol, C. Lewis, J. Bossart, C.J. Bain**  
“Florida Friendly Landscape (FFL) Water Savings Impact”

**2017**

A. Electronic & Web-Based Delivery

*I. Electronic Delivery: DVDs, Web-Based Computer Programs, PowerPoint Shows, Web-Based Video, Audio-Podcasts, Video-Podcasts*

**C. Craige, M. Buser, C. Woods, A. Erichsen, B. Adam**

“Stakeholder-driven Whole Chain Traceability System for Agricultural Commodities: Beef Cattle Pilot Demonstration”

Oklahoma State University

**R.P.K. Ambrose, G. Mosher, D. Maier**

“Training on Prevention of Grain Dust Explosions”

Purdue University

*II. Web Sites*

**C. Racz, P. Jones, W. Field, D. Minns**

[www.agribility.org](http://www.agribility.org)

National AgrAbility Project, Purdue University

**D. Saraswat, B. Hancock, G. Singh, N. Pai**

SWAT Tools - <https://saraswat-swat.rcac.purdue.edu/>

Purdue University, Climate Corp., Monsanto

B. Publications

*III. Publications – Short (less than 9 pages)*

**A. Sharda, J. Fulton, T. Griffin, I. Ciampitti, and L. Haag**

“Planter Downforce for Uniform Seed Depth”

Kansas State University

**A. Sharda, T. Griffin, J. Fulton, and J. Slocombe**

“Liquid Application Technologies”

Kansas State University

**S. Chattopadhyay, C. Agouridis, J. Fox**

“Sediment Fingerprinting”

University of Kentucky

IV. *Publications – Medium (9-16 pages)*

**D. Sample, J. Owen, J. Fields, S. Barlow**

“Understanding Soil Moisture Sensors: A Fact Sheet for Irrigation Professionals in Virginia”  
Hampton Roads Agricultural Research and Extension Center, Virginia Tech

**M. Kukal and S. Irmak**

“Observed Space and Time Changes in Air Temperatures and Daily Temperature Range for the Counties in the US Great Plains from 1968 to 2013”  
University of Nebraska-Lincoln

**P. Jones**

“Arthritis and Gardening: A Guide for Home Gardeners and Small-Scale Producers”  
Purdue University

V. *Publications – Long (17-32 pages)*

None for 2017

VI. *Publications, Comprehensive (33 or more pages)*

**B. Ortiz, A. Hagan, R. Kemerait, R.S. Tubbs, K. Flanders, J. Langcuster, J. Crickard**

“Climate and Crops: Adapting Farming to a Variable Climate”  
Auburn University, University of Georgia, Alabama Cooperative Extension System

**K. Genskow, R. Larson, M. Borchardt, T. Burch, E. Ross**

“Considerations for the Use of Manure Irrigation Practices”  
University of Wisconsin – Madison

**L. Christianson, J. Frankenberger, C. Hay, M. Helmers, G. Sands**

“Ten Ways to Reduce Nitrogen Loads from Drained Cropland in the Midwest”  
University of Illinois at Urbana-Champaign, Purdue University, South Dakota State University, Iowa Soybean Association, University of Minnesota

C. Extension Methods and Impact

VII. *Innovative Extension Methods of Impact Assessment*

**P. Busato, R. Berruto, A. Nicholson, F. Zazueta**

“Active Learning: the Flipped Classroom Workshop”  
University of Turin and University of Florida

**2016**

**A. ELECTRONIC & WEB-BASED DELIVERY**

I. *Electronic Delivery: DVDs, Web-Based Computer Programs, PowerPoint Shows, Web-Based Video, Audio-Podcasts, Video-Podcasts*

**S. Burgus, T. Schlater, P. Ayers, G. Cook, L. Grafft**

“Tractor Safety Education Packet”  
Farm Safety For Just Kids, University of Tennessee, University of Vermont, Agromedicine Institute

II. *Web Sites*

No Recipients for 2016

**B. PUBLICATIONS (PRINT OR ELECTRONIC)**

III. *Publications – Short (less than 9 pages)*

**T. Scherer, K. Hellevang, D. Haasser**

“Electronic Backup Sump Pumps for Houses”

North Dakota State University

**E. Ozkan**

“Selecting the Best Nozzle for the Job”

The Ohio State University

**G. Fipps**

“Surge Flow Irrigation Fact Sheet”

Agrilife Extension Service, Texas A&M University

IV. *Publications – Medium (9-16 pages)*

**S. Irmak, V. Sharma**

“Spatial and Temporal Variation of Corn Evapotranspiration across Nebraska”

University of Nebraska, Lincoln

**T. Scherer, C. Hay, M. Helmers, H. Kandel, D. Tanner**

“Tile Drainage Pump Stations for Farm Fields”

North Dakota State University

V. *Publications – Long (17-32 pages)*

**S. Irmak, K. Djaman**

”Basic Soil and Water Resources and Irrigation Engineering/Agricultural Water Management and Related Terminology”

University of Nebraska, Lincoln, Africa Rice Center

VI. *Publications, Comprehensive (33 or more pages)*

**S. Sanford, J. Hendrickson**

“On-Farm Cold Storage of Fall Harvested Fruit and Vegetable Crops”

University of Wisconsin, Madison

**N. Carroll**

“Soil and Water Science”

Purdue University

**C. EXTENSION METHODS AND IMPACT**

VII. *Innovative Extension Methods of Impact Assessment*

No Recipients for 2016

**2015**

**A. ELECTRONIC & WEB-BASED DELIVERY**

I. Electronic Delivery: DVD's, Web-Based Computer Programs, PowerPoint Shows, Web-Based Video, Audio-Podcasts, Video-Podcasts:

**P. JONES, C. RACZ, W. FIELD, K. HAMM**

“AgrAbility Webinar Series”

National AgrAbility Project, Purdue University

**D. MCFARLAND, J. TYSON, M. HAAN**

“Technology Tuesday-Dairy Webinar Series (online course)”

Penn State Extension

**S. TAGHVAEIAN, K. HOLMES, K. GRAGG, L. PAYNE**

“Garden Irrigation Kit”

Oklahoma State University

**D. SARASWAT, B. HANCOCK, B. SCOTT**

“Flag the Technology Cloud (FTTCloud)”

University of Arkansas Division of Agriculture

Cooperative Extension Service

**G. FOX, C. WOODS, L. ELMORE, S. FERRELL, J. MOSS,**

**A. SUTHERLAND, S. TAGHVAEIAN, J. VOGEL, H. ZHANG**

“Foundations of Oklahoma Water”

Oklahoma State University

II. Web Sites:

**D. SCHMIDT, E. WHITEFIELD, C. POWERS, J. PRONTO,**

**P. KNOX, G. HAWKINS, D. SMITH, J. HEEMSTRA**

“Animal Agriculture in a Changing Climate”

University of Minnesota, Washington State University,

University of Nebraska-Lincoln, Cornell University,

University of Georgia, Texas A&M University

**B. PUBLICATIONS (PRINT OR ELECTRONIC)**

**III. Publications – Short (less than 9 pages)**

**D. SMITH, S. MUKHTAR, R. STOWELL**

“Advanced Application Techniques – Making the Most of Your Manure Responsibility”  
Texas A&M University, University of Nebraska-Lincoln

**S. SANFORD**

“Lighting Technology: LED Lamps for Home, Farm and Small Business”  
University of Wisconsin-Madison

**K. FEEHAN, D. SHELTON, T. FRANTI, K. PEKAREK, S. RODIE**

“*Stormwater Management: Rainwater Harvesting with Rain Barrels (G2220)*”  
University of Nebraska Extension

**B. HOLM, D. SHELTON, K. FEEHAN, K. HOLM, S. RODIE, T. FRANTI**

“*Stormwater Management: What Stormwater Management Is and Why It Is Important (G2238)*”  
University of Nebraska Extension

**R. SUTTON, S. RODIE, D. SHELTON**

“*Stormwater Management: Green Roof Basics (G2244)*”  
University of Nebraska Extension

**D. ROGERS, J. AGUILAR, I. KISEKKA, P. BARNES, F. LAMM**

“Important Agricultural Soil Properties”  
Kansas State University

**B. HOLM, D. SHELTON, T. FRANTI, K. FEEHAN, S. RODIE**

“*Stormwater Management: How to Make a Rain Barrel (EC2001)*”  
University of Nebraska Extension

**IV. Publications – Medium (9-16 pages)**

**H. FRASER**

“Forced-Air Cooling Systems for Fresh Ontario Fruits and Vegetables”  
Ontario Ministry of Agriculture, Food and Rural Affairs

**T. STOMBAUGH**

“Technology to Improve Sprayer Accuracy”  
University of Kentucky

**V. Publications – Long (17-32 pages)**

No Recipients

VI. Publications, Comprehensive (33 or more pages)

**J. S. STEEL, D. MURPHY**

“Safety and Health Management Planning for Beginning Farmers and Ranchers”

Penn State University

C. EXTENSION METHODS AND IMPACT

VII. Innovative Extension Methods or Impact Assessment

**K. ILELEJI, S. MCNEILL, G. OPIT**

“Technical Assistance Program on Commodity Protection and Stored Grain Management in Nigeria”

Purdue University, University of Kentucky, Oklahoma State University

**D. JEPSEN, A. MANN, K. MCGUIRE, L. FLOWERS (State Fire Marshall)**

**S. WALKER, J. ROBINSON, M. BAILEY, D. TORSELL, A. BAUER, A. GROSS**

“Grain C.A.R. T. Program”

The Ohio State University and Ohio Fire Academy

**2014**

B. ELECTRONIC & WEB-BASED DELIVERY

VI. Electronic Delivery: DVD’s, Web-Based Computer Programs, Powerpoint Shows, Web-Based Video, Audio-Podcasts, Video-Podcasts:

**D. JEPSEN, K. MANN, A. MANN, S. SPEARS**

“ATV Safety for Agriculture”

The Ohio State University

**J. VOGEL, C. WOODS, K. CONRY, G. LEVESQUE, G. JENNINGS,**

**E. BRANTLEY, J. FLEMING**

“Natural Stream Restoration Video Series”

Oklahoma State University, Oklahoma Conservation Commission,

North Carolina State University, Auburn University

**K. MIGLIACCIO, C. FRAISSE, G. VELLADIS, K. MORGAN, J. ANDREIS**

“Smartirrigation Apps”

University of Florida

VII. Websites:

**L. SCHWANKL, F. LAMM, D. PORTER**

“Maintenance of Microirrigation Systems”

University of California-Davis, Kansas State University, Texas A&M University

**B. PUBLICATIONS (PRINT OR ELECTRONIC)**

VIII. Publications – Short (less than 9 pages)

**C. AGOURIDIS, J. MCMAINE**

“Managing Stormwater Using Low Impact Development (LID) Techniques”

University of Kentucky

**J. WILHOIT, T. STOMBAUGH, T. COOLONG**

“Mulching with Large Round Bales between Plastic-covered Beds”

University of Kentucky, University of Georgia

IX. Publications – Medium (9-16 pages)

**S. SANFORD, D. LIEBL**

“Wood Heating Appliances for Homes and Businesses”

University of Wisconsin-Madison

**K. FEEHAN, K. PEKAREK, E. BAUER, D. SHELTON, A. SHEFFIELD**

“Stormwater Sleuth and Running Rain: Keeping it Clean! Slowing it Down!”

University of Nebraska – Lincoln Extension

X. Publications – Long (17-32 pages)

No Recipients

VI. Publications, Comprehensive (33 or more pages)

**B. HOLMES, N. COOK, T. FUNK, R. GRAVES, D. KAMMEL, C. REINEMANN,**

**J. ZULOVICH, K. WALKER, J. MOORE, L. WETTERAUER**

“Dairy Freestall Housing and Equipment”

Midwest Plan Service, Iowa State University

**S. BURGUS, T. SCHLATER, D. NEENAN, J. GOLDSMITH,**

**D. GENTILE, T. ANDREWS**

“Rural Roadway Safety”

Farm Safety 4 Just Kids, National Education for Agricultural Safety,  
Independent Agent, Iowa State University, University of California-Davis

C. EXTENSION METHODS AND IMPACT

VII. Innovative Extension Methods or Impact Assessment

No Recipients

**2013**

**A. ELECTRONIC & WEB-BASED DELIVERY**

I. Electronic Delivery: DVD’s, Web-Based Computer Programs, PowerPoint Shows, Web- Based Video,  
Audio-Podcasts, Video-Podcasts:

**M. HELMERS, J. COMITO, A. STAUDT**

“Rock Your Watershed! A Game of Choice and Chance”

Iowa State University

**R. HUHNEKE, A. ERICHSEN, M. BUSER, C. WOODS**

“Developing a Sustainable Biomass Production System”

Oklahoma State University

**D. SARASWAT, L. ESPINOZA, J. KELLEY**

“Corn Advisor”

University of Arkansas Division of Agriculture Cooperative Extension Service

**II. Websites**

**R. STOWELL, J. HEEMSTRA, K. JANNI, R. SHEFFIELD, E. WHEELER, D. SCHULTE**

“Air Quality in Animal Agriculture eXtension website”

<http://www.extension.org/pages/15538/air-quality-in-animal-agriculture>

University of Nebraska, University of Minnesota, Louisiana State University,

The Pennsylvania State University

**B. PUBLICATIONS (PRINT OR ELECTRONIC)**

III. Publications – Short (less than 9 pages)

**D. HAMILTON**

“Organic Matter Content of Wastewater and Manure”

Oklahoma Cooperative Extension Service

**S. IRMAK, P. GRASSINI, J. REES, K. CASSMAN, H. YANG, C. BURR**

“Evaluation of Water Productivity and Irrigation Efficiency in Nebraska Corn Production”

University of Nebraska-Lincoln



IV. Publications – Medium (9-16 pages)

**D. SMITH, J. NIELSEN-GAMMON, S. MUKHTAR**

“Why Does Climate Change? Basic Scientific Principles and Terminology”

Texas A&M University System

V. Publications – Long (17-32 pages)

No Recipients

VI. Publications, Comprehensive (33 or more pages)

No Recipients

C. EXTENSION METHODS AND IMPACT

VII. Innovative Extension Methods or Impact Assessment

No Recipients

**2012**

C. ELECTRONIC & WEB-BASED DELIVERY

XI. Electronic Delivery: DVD’s, Web-Based Computer Programs, Powerpoint Shows, Web-Based Video, Audio-Podcasts, Video-Podcasts:

**S.D. JEPSEN, C. DICUS, C. ZOLLER**

“Sharing the Roadways in Amish Country”

The Ohio State University

XII. Websites:

**C. RACZ, P. JONES, W. FIELD, J. SMITH, S. SWAIN, K. COOK**

“The Toolbox Assistive Technology Database Online”

[www.agrability.org/Toolbox](http://www.agrability.org/Toolbox)

National AgrAbility Project, Purdue University

B. PUBLICATIONS (PRINT OR ELECTRONIC)

XIII. Publications – Short (less than 9 pages)

**L. CHRISTIANSON, M. HELMERS**

“Woodchip Bioreactors for Nitrate in Agricultural Drainage”

Iowa State University

**H. FRASER, K. SLINGERLAND, K. KER, R. BREWSTER, H. FISHER**

“Wind Machines for Minimizing Cold Injury to Horticultural Crops”

Ontario Ministry of Agriculture, Food and Rural Affairs; Lakeview Vineyard Equipment;

KCMS Consultants; University of Guelph

**S.D. JEPSEN, C. ZOLLER**

“Snowplows in Amish Country: A guide for buggy drivers, pedestrians, and

snowplow operators”

The Ohio State University

XIV. Publications – Medium (9-16 pages)

**R. GRISSO, M. ALLEY, W. THOMASON,**

**D. HOLSHOUSER, G. ROBERSON**

“Precision Farming Tools: Variable-Rate Application”

Virginia Tech

V. Publications – Long (17-32 pages)

**R. STENGLEIN, C. CLANTON, D. SCHMIDT,**

**L. JACOBSON, K. JANNI**

“Covers for Mitigating Odor and Gas Emissions in Animal Agriculture”

University of Minnesota

VI. Publications, Comprehensive (33 or more pages)

**D. WARD, D. MCDONALD, R. CHAMBERS**

**H. HOUSE, A. ROBERTSON, K. PATERSON**

“Reducing the Risk of Fire on Your Farm”

OMAFRA, Ontario Fire Marshall, Ontario, Canada

**R. LEMENAGER, D. JONES, D. BUCKMASTER, W. FIELD,**

**T. GLANVILLE, L. HORSTMAN, K. JOHNSON, J. LOVEN,**

**G. SELK, T. STEWART, R. WILLIAMS, K. WALKER, J. MOORE**

“Cow-Calf Production in the US Corn Belt”

Midwest Plan Service, Iowa State University

**D. WARD, R. CHAMBERS, H. HOUSE, A. ROBERTSON**

“Ventilation for Livestock and Poultry Facilities”

OMAFRA, Ontario, Canada

**S. SANFORD, A. THUNKER**

“Energy Efficiency in Greenhouses”

University of Wisconsin-Madison

**S. BURGUS, T. SCHLATER, J. STORM,**

**L. GRAFFT, T. ANDREWS**

“Chemicals in Rural Areas”

Farm Safety 4 Just Kids, NC St. University Extension,

University of Iowa, University of CA at Davis

**J. GOATLEY, W.L. DANIELS, G. EVANYLO, L. FOX,**

**K. HAERING, S. HODGES, R. MAGUIRE, D. SAMPLE,**

**D. HANSEN, D. KINDIG, T. SEXTON, R. HABEL,**

**K. HENSLER**

“Urban Nutrient Management Handbook Access at:

<http://pubs.ext.vt.edu/430/430-350/430-350.html>

Virginia Cooperative Extension/Virginia Tech

C. EXTENSION METHODS AND IMPACT

VII. Innovative Extension Methods or Impact Assessment

**J. VOGEL, M. HOLMES, K. TOSCANO,  
S. MITCHELL, P. KRESGE**

“Innovative Workshops and Informational Media  
Dissemination on Designing and Specifying  
Pervious Pavement”  
Oklahoma State University

**J. FULTON, D. MULLENIX, T. HARBUCK**

“What is GPS Drift?”  
Auburn University

**2011**

**Electronic Delivery: DVD’s, Web-Based Computer Programs, Powerpoint Shows, Web-Based  
Video, Audio-Podcasts, Video-Podcasts:**

**P. JONES, S. DOYLE, W. FIELD**

“AgrAbility: It’s About Hope”  
Purdue University

**D. HAMILTON, C. WOODS**

“Alternative Manure Technology Video Series”  
Oklahoma State University

**G. JOHNSON, S. ASCHMANN, G. ZWICKE, S. O’NEILL, R. VINING,**

**S. DETTER, B. LITTLETON, S. SRIPARAMESWARAN, R. STOWELL, J. HEEMSTRA,  
CAROLYN OLSON**

“USDA-NRCS Air Quality and Energy On-line Courses”  
USDA-NRCS Air Quality and Atmospheric Change Team  
Portland, Oregon

**N. KLOCKE, L. STONE, S. BRIGGEMAN**

”Crop Yield Predictor”  
Kansas State University

**Websites:**

**S. IRMAK, J. REES, G. ZOUBEK, B. VANDEWALLE**

“Nebraska Agricultural Water Management Demonstration  
Network (NAWMDN) Web Site”

<http://water.unl.edu/web/cropswater/nawmdn>

University of Nebraska-Lincoln

**M. PURSCHWITZ, M. SUBBASWAMY, J. PROFITT**

“The Kentucky Roll-Over Protective Structures Guide”

<http://warehouse.ca.uky.edu/rops/>

University of Kentucky

**J. FULTON, A. WINSTEAD, D. MULLENIX**

“Alabama Precision Agriculture Education through  
the Internet”

[www.AlabamaPrecisionAgOnline.com](http://www.AlabamaPrecisionAgOnline.com)

Auburn University

**J. VOGEL, S. LOVERN**

“Oklahoma Low Impact Development Web Site”

<http://lid.okstate.edu>

Oklahoma State University

**Publications – Short (less than 9 pages)**

**R. GRISSO, J. PERUMPRAL, K. PEVARSKI, K. BALLIN**

“Assistive Technologies in Agriculture”

Virginia Tech

**P. JONES, W. FIELD, D. MINNS, G. DEBOY, J. SMITH**

“AgrAbility Harvest Newsletter”

Purdue University

**R. TAYLOR, J. FULTON, E. BARNES, A. ERICHSEN**

“Sensor-Based Variable Rate Application for Cotton”

Oklahoma State University

**Publications – Medium (9-16 pages)**

**R. GRISSO, J. PERUMPRAL, D. VAUGHAN, G. ROBERSON, R. PITMAN**

“Predicting Tractor Diesel Fuel Consumption”

Virginia Tech

**Publications – Long (17-32 pages)**

**S. SEARCY, J. WANJURA, H. WILLCUTT, A. BRASHEARS,**

**M. BUSCHERMOHLE, E. BARNES**

“Seed Cotton handling and Storage”

Texas A&M University

**P. JONES, M. STILES, L. SEMMEL, E. MANDUJANO, J. RODRIGUEZ, T. ANDREWS, W. FIELD**

“Podrá ser la Artritis lo que me causa Dolor?

(Could Arthritis be what is Causing My Pain?)

**Publications, Comprehensive (33 or more pages)**

**J. MECHELL, B. KNIFFEN, B. LESIKAR, D. KINGMAN, F. JABER, R. ALEXANDER, B. CLAYTON**

“Rainwater Harvesting: System Planning”

Texas A&M University

**B. MARZEC, P. CARVAJAL**

“2010 San Antonio River Basin Highlight Report”

San Antonio River Basin, San Antonio, Texas

**H. WILLCUTT, E. BARNES, M. BUSCHERMOHLE, J. WANJURA, G. HUITINK, S. SEARCY**

“The Spindle-Type Cotton Harvester”

Texas A&M University

**Innovative Extension Methods or Impact Assessment**

**C. BRODBECK, J. FULTON**

“Precision Mini-Sprayer Demonstration”

Auburn University

**Educational Aids Blue Ribbon**

**Awards for 2010 Category**

**I. Electronic Delivery: DVDs, Web-Based Computer Programs, PowerPoint Shows, Web-Based Video, Audio-Podcasts, Video Podcasts**

**Blue Ribbon Winner(s)**

**R. SHEFFIELD, N. EMBERTSON, R. LABAUVE, J. DAVIS, J. COLLETT JR., K. PATTERSON, E. PORTER, J. SLUTSKY, P. WOODFORD**

“Ammonia Deposition in Alpine Ecosystems”

Louisiana State University

**C. LEHTOLA, C. BROWN, J. NELSON, C. KNACK, J. ERIKSEN, G. MATTEIS**

“Road Safety: Sharing the Road with Agricultural Equipment”

University of Florida

**C. LEHTOLA, C. BROWN, E. DRANNBAUER, J. NELSON, C. KNACK, J. ERIKSEN, G. MATTEIS**

“PTO Safety”

University of Florida

**C. SCHWAB, J. FINDLAY, N. WILSON, K. RUTH**

“My Name is Kristi”

Iowa State University

**A. SUTHERLAND, R. TAYLOR, M. HOEY, S. BLACKBURN, R.**

**JABRZEMSKI, A. BRAEUTIGAM, A. WARE**

“Drift Risk Advisor”

Oklahoma State University

**II. Websites**

**M. DUKES, J. HUGUS, A. WILLIAMSON, K. RILEY, M. DOUGLAS**