# POSTER PRESENTATIONS

## ADAPTIVE MANAGEMENT OF CONSERVATION EFFORTS

- Effect of No-tillage, Cover Crop, and Biochar Application on Net Global Warming Potential in Asian Organic Soybean Production
- Evaluating Soil Erosion and Runoff Dynamics in a Humid Subtropic, Low Stream Order, Southern Plains Watershed from Cultivation and Solar Farm Development
- If We Know Groundwater Is a Limited Resource that Must Be Managed, Why Are Water Tables in Texas Continuing to Decline?
- Nitrate Leaching and Crop Yield for Intermediate Wheatgrass (Kernza®) in the US Midwest

## CEAP SHOWCASE

- A Modeling Assessment of Agricultural Land Groundwater Recharge in the Kaweah River Watershed, California
- Assessing the Field and Watershed Scale Impacts of Conservation Practices in the Blanchard River Watershed
- CEAP Special Project: Assessing Conservation Practice Impacts on Reducing Soil Loss from Ephemeral Gullies within CEAP Watersheds
- CEAP Special Project: Watershed Legacy Sediment Assessment
- Conservation Effects Assessment Project in Northeast Arkansas
- Discerning and Mitigating Legacy Nitrogen Sources in CEAP Watersheds through Measurement and Modeling
- Effective Conservation Practices for the Southeastern United States
- Evaluating Conservation Practice Effects at the Watershed- and Field-Scales in the Lake Champlain Basin of Vermont
- Examining the Prospects for Short-Range Runoff Forecasting in the Mahantango Creek Watershed Using a National Weather Service Hydrologic Model
- Impacts of Conservation Practice Implementation on Water Quality, Soil Quality, and Stream Ecology in Ohio
- Mitigation of Excess Legacy Soil Nutrients on the Delmarva Peninsula Using Perennial Grasses
- National Food and Agriculture (NIFA) CEAP Watershed Synthesis Study: Lessons Learned Still Informing Effective Conservation
- Nutrient Dynamics after Simulated Flooding of Soils and Sediments from Conservation and Agricultural Land Uses in Beasley Lake Watershed, a CEAP Watershed in the Mississippi Alluvial Plain
- Reducing Sediment and Phosphorus Losses in a Small Watershed by Converting from Surface to Sprinkler Irrigation

- Saturated Riparian Buffers as Promising Edge-Of-Field Conservation Practice
- Significant Findings from the CEAP Goodwin Creek Experimental Watershed
- Sugarcane and Flooded Rice Crop Rotation Effects on Soil and Water Quality within the Everglades Agricultural Area
- The Agricultural Conservation Planning Framework (ACPF) Enhancement Project

## CIG SHOWCASE

- An Innovative Approach for Invasive Species Targeting and Control Using Remotely Sensed Data and Techniques within the Chickasaw Nation Treaty Territory
- An Internet of Things (IoT) System to Monitor Soil Moisture and Improve Irrigation Water Management
- Biocarbon-Driven Dairy Manure Management Demonstration for Enhanced Water Quality
- Carolina Cotton Can Conserve Soil with Cover Crops
- CIG Showcase: Novel Investment in Grazing Infrastructure
- Conservation at the Co-op
- Demonstration of the Benefits of Subirrigation Using Water Level Control Structures for Improved Agricultural Irrigation Water Use
- Evaluation of Environmental Benefits of Dairy Manure Treatment Technologies for Improving Water Quality
- Farmer-Driven Implementation of Soil Health Management Systems Adapted to Diverse Cropping Systems in Tropical and Subtropical Island Environments
- High Clearance Robotic Irrigation for In-Season Nutrient Management
- Impacts of Biochar and Manure Amendments on Soil Health and Water Dynamics in Cover Cropping Systems, South Dakota
- Low-Tech Process Based In-Stream Structures to Increase Climate Resiliency in the Great Plains
- Promoting Adoption of Precision Nitrogen Management Technologies through On-Farm Research
- Stewardship Ambassadors: Women Landowners Educating Farmers and Other Landowners to Motivate Conservation Change
- Using 3-D Imaging to Estimate Cover Crop Biomass and Characterize Canopy Structure
- Western Lake Erie Basin: Manure Nutrient Recovery

## CLIMATE-SMART AGRICULTURE

- Converting Runoff to Irrigation: Assessing the Feasibility of Rainwater Harvesting for Horticulture Production across the Continental United States
- Developing Irrigation Scheduling Strategies for Drainage Water Recycling Systems in Iowa
- Impact of Land-Use Systems on Soil Aggregates and Associated Organic Carbon Fractions: Analysis of Time-Variable Management Systems in New Jersey Piedmont Soils
- Integrating Manure Management with Sustainable Intensification of No-Till Corn Silage Systems for Improving Soil Health

## CONSERVATION IN ORGANIC, SPECIALTY, SMALL-SCALE, OR URBAN AGRICULTURE

- Biochar Boosts the Compost Performance of Methane Fermentation Residue Derived from Food Waste

## CONSERVATION MODELS, TOOLS, AND TECHNOLOGIES

- Assessment of Water Quality Under Sensor-Based Irrigation Scheduling System in South Carolina
- Dust Mitigation through Sustainable and Resilient Cropping Systems
- Improving Surface Drainage Descriptions for Estimation of Soil Erosion over Large Areas

## EDGE-OF-FIELD PRACTICES AND MONITORING

- Effect of Cover Crops on Water Quality of Tile Drained Corn-Soybean Watersheds: A Paired Watershed Approach
- Assessment of Soil Health Practices Impacts on Runoff and Curve Number Hydrology
- Bioreactor and Saturated Buffer Stacked Practice in Missouri
- Microbial Communities as a Pathway to Improved Woodchip Bioreactor Design and Performance
- Peak Discharge versus Total Nitrogen and Total Phosphorus in Cover Crop and No Cover Crop Systems
- Soil Moisture Sensors and Surge Valves to Increase Irrigation Efficiency

## OUTREACH, EDUCATION, AND COMMUNITY ENGAGEMENT

- Building Knowledge about Wisconsin's Cover Crops: A Farmer Citizen Science Research Project
- Shell Creek Watershed Monitoring Project: High School Student Volunteer Monitoring
- Water in Your Jeans: A Water Footprint Comparison
- Watershed Management Outreach and Research: A Student's Perspective in Eastern South Dakota

## SOIL HEALTH RESOURCES, INDICATORS, ASSESSMENT, AND MANAGEMENT

- A Novel Remediation Technology for Oil-Contaminated Soils with Ultra-Fine Bubbles
- Agricultural Landscape Changes in Puerto Rico following Hurricanes Irma and María
- Assessment of Soil Protein as a Soil Health Indicator and Influence of Management Practices
- Can We Regenerate Our Land and Water Systems using the Perennial Groundcover (PGC) System? An Overview
- Carbon Dynamics in Three Land Management Systems in the Northern Great Plains
- Cotton-White Clover Cover Crop Production System Utilization for Macro- and Micro-Nutrient Pools
- Exploring Soil Health on Dairy Forage Production Fields
- How Do Cover Crops Affect Soil Biological Properties in a Long-Term, No-Till Rotation in Northeast Kansas?
- Planting Green: Potential Benefits and Disadvantages of Planting into a Live Cover Crop
- Salinity Effects on the Threshold Wind Velocity Necessary to Initiate Erosion
- Seasonal Dynamics and Impact of Phosphorus Fertilizer Treatments and Cover Crops on Soil Health Indicators during Soybean Growing Season
- The Effects of Manure Applications on Soil Greenhouse Gas Emissions in the Texas High Plains
- Toward a National Assessment of Soil Biodiversity: A Framework for Biological Data Collection

## WATER RESOURCE ASSESSMENT AND MANAGEMENT

- Nutrient Reduction Capability of Drainage Water Recycling Storage Reservoirs
- Organic Soil Amendments and Their Effect on Soil Health and Water Holding Capacity
- Soil Water Dynamics in Semiarid Cotton Conservation Systems