

DRAFT POSTER PRESENTATIONS

ADAPTIVE MANAGEMENT OF CONSERVATION EFFORTS

1. Assessment and Management of Soil Sustainability in Tropical Ekiti State: Implications for Conservation and Climate Resilience
2. Ready, Set, Scale: Accelerating Edge of Field Adoption in Illinois Through Alternative Delivery Models

CEAP SHOWCASE

3. Agricultural Conservation Planning Framework (ACPF) Enhancement: Assessment Development, Validation, and Crediting for Agricultural Producers
4. Assessing Soil Erosion Mitigation by Conservation Practices Through Automated Implementation of the Revised Universal Soil Loss Equation (RUSLE)
5. Balancing Groundwater Recharge, Nitrate Leaching, and Soil Carbon Under Agricultural Managed Aquifer Recharge
6. CEAP Special Project: Impacts of Conservation Practices to Reduce Soil Loss from Ephemeral Gullies Within CEAP Watersheds
7. Conservation Effects Assessment Project in Northeast Arkansas
8. Evaluating Cropland Groundwater Lag Time in the Monocacy River in Maryland, USA, Using the MESA Tracer
9. Evaluating the Performance of Ensemble Runoff Forecasts in the Mahantango Creek Watershed
10. From Farm Expansion to Groundwater Outcomes: Rewriting Dairy vs Orchard Nitrate Legacy
11. Impacts of Scientific Studies from the CEAP Goodwin Creek Experimental Watershed
12. Implications of Algal Nutrient Responses for Identifying Strategies to Improve Water Management Within Agricultural Watersheds in the United States
13. Integrating Crop Rotation and Remote Sensing to Assess Soil and Water Conservation in Organic Soils of the Everglades Agricultural Area
14. Modeling How Cooperation with Nitrogen Targets Could Improve Central Valley Groundwater Quality
15. Monitoring and Modeling Nitrate Leaching in an Almond Orchard Using Deep Vadose Zone Measurements and HYDRUS-1D
16. Nutrient Dynamics in Cattle-Impacted Watersheds of the Southern Coastal Plain

17. Quantifying Effectiveness and Long-Term Storage of Sediment and Nutrients in a Sediment Retention Pond in the CEAP Beasley Lake Watershed
18. Simulating Annual and Perennial Cropping System Effects on Legacy Soil Phosphorus Using the APLE Model, Choptank River, Maryland, USA
19. Soil Carbon Stabilization and Nutrient Loss Mitigation Under Conservation Agriculture Management Within the Everglades Agricultural Area
20. Soil Moisture Prediction: A Review of Models, Principles, Applications, and Future Needs
21. Temporal and Spatial Trends for Sediment Phosphorus Buffering Dynamics in Streams Within the Lower Mississippi River Basin
22. Temporal Dynamics of Nitrate Concentration and Leaching Losses Under Artificially Drained Mollisol
23. The BUSHEL Initiative: Stakeholder Engagement Activities to Better Soil and Water Management and Modeling with and for Farmers (St Joseph River CEAP Watershed, Indiana)
24. Understanding Ecohydrologic Processes of Irrigated Citrus Orchards in California: Integrating In Situ and Modeling Approaches
25. Watershed-Scale Effects of a Novel Water Control Structure on Atrazine Within Channelized Agricultural Headwater Streams

CIG SHOWCASE

26. Addressing Barriers for Historically Underserved Producers in California's San Joaquin Valley to Implement Combined Soil Health Practices Through Participatory Planning and Evaluation on Diversified Farms
27. Barley Jump-Started Ground Cover Restoration of Saline-Sodic Soils
28. Converting Invasive Biomass into Biochar to Improve Tropical Soil Health for Reforestation and Agriculture in Hawai'i
29. Effect of Combining Tillage, Cover Crop, and Optimized Nitrogen on Corn Yield and Soil Health During the Transitional Period
30. Effects of Vermifiltration Vermicompost on Soil Health and Nitrous Oxide Emissions Across Different Annual and Perennial Systems in Washington and California
31. Grazing the Bar
32. High Clearance Robotic Irrigator for In-Season Nutrient Management in Ohio
33. LeafSpec: A Hyperspectral Leaf Imager for Accurate Nitrogen Assessment and Smart Fertilization Decisions
34. Novel Highly Efficient Fertilizers and Seed Treatments for Organic Production Systems

35. Nutrient Export Across Topographic and Soil Textural Gradients in Three Alabama Demonstration Farms
36. OPTIMA Fields: An On-Farm Project Helping Alabama Farmers Adopt Site-Specific Management Practices
37. Profitability and Cost Tradeoffs of Cover Crops and Smart Irrigation in Alabama
38. Scaling Biochar Adoption in Agriculture: Lessons from a National Soil Health Demonstration Trial Program
39. SWAT-Based Evaluation of Silvopasture Impacts on Hydrology and Water Quality in a HUC-10 Watershed
40. Technologies to Enhance Rangeland and Livestock Management Decision-Making in the Malpai Borderlands Group
41. Understanding Nitrogen Loss Pathways in Commercial Row Crop Systems: Insights from Yield Zone-Based Management
42. Using 360Rain for In-Season Manure Application: A Conservation Practice That Aligns Nutrient Stewardship, Emissions Reduction, and Crop Productivity
43. WWF Beef Tracing and Allocation

CONSERVATION AT THE CONFLUENCE

44. Corncobs May Remove More Nitrate Than Woodchips in Denitrifying Bioreactors
45. Dryland Wheat Production as Influenced by Compost Application
46. Effect of Soil Amendments on Runoff Water Collected on Agricultural Fields
47. Impact of In-Channel and Near-Stream Restoration Practices on Water Quality and Stream Metabolism
48. Impact of Land Use and Hydrological Regime on Nitrogen Cycling Microbial Communities in Missouri Riparian Zones
49. Mitigation of Dimethazone and Trifluralin Residues in Runoff and Seepage Water
50. Quantifying Physical and Hydraulic Properties of Potential Woodchip Sources for Use in Denitrifying Bioreactors
51. Scouting America's Distinguished Conservation Service Award

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

52. Cover Crop Mowing or Tillage, but Not Sheep Grazing, Alter Within-Season Soil Inorganic Nitrogen Availability in an Organic Vineyard

CONSERVATION MODELS, TOOLS, AND TECHNOLOGIES

- 53. Assessing Winter Runoff Estimation in the Wisconsin Phosphorus Index
- 54. Development of an Innovative Machine Learning Application to Classify Habitats in Private Wetland Easements
- 55. FireWatch at the Edge: Low-Cost AI Detection for High-Risk Landscapes

INNOVATION, TECHNOLOGY, AND DATA IN CONSERVATION

- 56. From Waste to Resource: NRCS Design and Conservation Planning for Forced-Air Poultry Composting Systems
- 57. Site Selection of Water Level Sensors for Rice Irrigation Water Management and Automation

OUTREACH, EDUCATION, AND COMMUNITY ENGAGEMENT

- 58. Dirty Pictures: Art-Based Soil Education
- 59. Equipping Tomorrow's Conservation Workforce: Our Year in the SWCS Emerging Leaders Program
- 60. Farmer Networking and Skill-Share Events: Lessons Learned
- 61. From Demonstration to Decision: Accelerating Farmer-Centered Biochar Adoption
- 62. Homeowners at the Forefront of Conservation
- 63. Planning and Executing a Conservation Field Day: A Firsthand Look at Outreach in Action
- 64. Shell Creek Watershed Monitoring Project: High School Student Volunteer Monitoring Poster
- 65. Three Projects, Three Approaches to Larger Impacts
- 66. Voices from the Field: What May Drive or Prevent Cover Crop Adoption in the Semi-Arid Great Plains

REGENERATIVE AGRICULTURE FOR ALL SCALES AND SYSTEMS

- 67. Actionable Knowledge for Designing Multifunctional Buffers
- 68. Effects of Preservation Management Strategies vs Production Management Strategies on Wetland Soils
- 69. Evaluating Regenerative Conservation Strategies for Soil Restoration and Long-Term Health in the Badlands
- 70. Gateway to Grazing: Investing in Portable Grazing Infrastructure to Scale Benefits for Farmers and the Land
- 71. Regenerative Semi-Arid Cropping Systems' Impact on Soil Nitrogen Dynamics

72. Regenerative Strategies for Strengthening Soil Health and Nitrogen-Use Efficiency in the Southeastern United States

SOCIAL SCIENCES INFORMING CONSERVATION

73. Succession Planning for Ranching Operations

SOIL HEALTH RESOURCES, INDICATORS, ASSESSMENT, AND MANAGEMENT

74. Evaluating Soil Microbial Communities Under Rain-Fed Perennial Grasses and Irrigated Row Crops in Nebraska for Ecosystem Service Quantification
75. Improving Soil Structure and Reducing Compaction Through Conservation Management in the Mississippi Delta
76. Investigating the Combined Effects of Nitrogen Addition and Drought on Inorganic Carbon Cycling Within Grassland Soils
77. Judging SSURGO: Comparing Soil Judging Contest Pit Descriptions to the Soil Survey Database
78. Long-Term Cropping System Influence on Upper Soil Profile Health at Sanborn Field
79. On-Farm Assessment of Cover Cropping as a Climate-Smart Agricultural Practice in the Mississippi Delta
80. Seasonal Soil Health Dynamics in Solar Corridor Cropping System Under Organic Management
81. Soil Health Indicators Across Cover Crop Species in a No-Till Conservation System
82. Soil Microbial Responses to Swine Manure and Commercial Fertilizer Applications and Their Implications for Soil and Water Conservation
83. Total Carbon and Nitrogen Across a Palustrine Wetland Chronosequence in the Northern Mississippi Embayment, Kentucky

THE PRODUCER AND THE PLOT

84. Heavy Metals in Southeast Missouri Soils

WATER RESOURCE ASSESSMENT AND MANAGEMENT

85. Annual and Perennial Land-Use Effects on Soil Moisture Distribution Within Claypan Soil Profiles in Northeast Missouri
86. Edge-of-Field Monitoring of Nutrient and Sediment Loss from Wetland Watersheds in the Northern Mississippi Embayment, Kentucky
87. New Tools for Measuring Soil Color: Impacts on Wetland Delineation