

Concurrent Sessions: Symposia/Oral Presentations

90-minute symposia and concurrent sessions will take place on Monday at 10:30 a.m., 1:30 p.m., and 3:30 p.m. and Tuesday at 8:30 a.m., 1:30 p.m., and 3:30 p.m.

Posters will hang in the Exhibit Hall and poster presenters are expected to be at their posters during the Monday evening reception. Poster set up is Sunday afternoon and Monday morning. Poster boards are 4' wide by 8' long.

Symposia

- Assessment and Management of Vegetated Ditch Systems for Drainage and Water Quality Goals
- Biological Diversity and Bio-Energy—A wildlife management perspective
- CEAP National Assessment Components
- CEAP-NRCS Special Emphasis Watershed Projects
- Conservation Planning and Conservation Practice Physical Effects
- Conservation Planning Field Technology Integration
- Implications of Bioenergy Production for Agricultural Development
- Including the Private Sector as Part of your Conservation Team
- Innovating Conservation Outreach to Absentee Landowners
- Invasive Species—Local and Global Threats to Productive Landscapes
- Sino-US Cooperative Efforts in Soil and Water Conservation
- Strengthening the Science of the CEAP Cropland Assessment
- The Conservation Effects Assessment Project—Wetlands National Assessment Component: Is the investment in wetlands conservation on agricultural landscapes worth the ecological return?
- Watershed Assessment for River Stability and Sediment Supply (WARSSS)
- Wildlife benefits of the Farm Bill: Insights from the Conservation Effects Assessment Project Wildlife Component

Oral Presentations

*2007 Area of Special Interest

Adaptive Management-Theory into Practice*

- Improving the Whole Farm Planning Process
- Successful Ecological Restorations in Urban Settings: What to do and what to avoid

Adaptive Management of Conservation Efforts

- Characterizing and Classifying Variability in Corn Yield Response to Nitrogen Fertilizer on the Scale of the Farm
- Environmental Dispute Resolution
- Farmers' Motivations for Adopting Management Practices in the Goodwater Creek Experimental Watershed
- Using a Conservation Innovation Grant to Stimulate Adaptive Management

Biodiversity Conservation and Management

- Brooksville Plant Materials Center: Developing sources of native plants for revegetation in Florida
- Effects of Agricultural Conservation Practices on Aquatic Habitats and Fauna
- Effects of Watershed Land Use on Aquatic Ecosystems
- Southwestern Riparian Tree and Shrub Planting Methods That Require Minimal or No Irrigation
- Strategies for Riparian Restoration at the Ayuquila River, Jalisco, Mexico

Conservation and Environmental Policy and Program Design

- Adoption of a Formal Multi Criteria Decision System to Improve Performance of Federal Conservation Programs
- Anthropogenic Global Warming: A literature review
- Assessment of Environmental Effects of NRCS Conservation Programs in Michigan Using an Environmental Quality Index
- Beyond Payments: The role of community farmer relationships in adoption of best management practices to protect water quality
- Conservation Easements: Applying ten years of experience in shaping the future of less than fee acquisition
- Designing More Effective Conservation Policies
- Developing Soil and Water Conservation Districts Capacity for Emergency Response in New York
- EQIP Management Intensity Pilot Project
- Estimating the use of Conservation Tillage in the Upper Mississippi River Basin: Combining statistical data from disparate sources
- Integrated Watershed Management and Public Administration of Water Resources in Honduras
- Mediation to Settle Environmental Disputes: The implications of Illinois' agricultural mediation program 1997-2006
- Phosphorus Trading Between Point And Nonpoint Sources: Inapplicability for many stream eutrophication problems in Ohio
- Regulating Farmers to Improve Water Quality: A three-state case study of agricultural nutrient management laws
- Should all Farmers in the Northern Ethiopian Highlands be Adopting the Same Type of Physical Soil Conservation Structures?



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- Simulated Effects of Changes in the Precipitation Regime on Storm Runoff and Nutrient Losses from Farm Fields in the Great Lakes Region

Conservation Education

- Beyond the Links: Golf course conservation education
- BioDiesel: Promoting an alternative fuel & considering alternative crops
- Developing and Using Producer Experience Case Studies to Market Conservation

Conservation Implications of a Bio-based Economy*

- Ag Based Energy Production Options on the Great Plains
- Switchgrass Production as a Bioenergy Crop in the Southeast
- The Chariton Valley Biomass Project in Iowa: Switchgrass to electric energy – ten years later

Conservation in Urban Settings

- Economic Value of Riparian Ecosystem Attributes in an Urban Setting
- Farm-Scale Integrated Water Resources Management Using Technology: Balancing economic, environmental, and social sustainability
- Impacts of Changing Land Use during and after Urban Development
- Land Trusts for Water Quality
- Plant a Million



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Conservation Tools and Technologies

- Assessment of an Infiltration Basin and Constructed Wetland for Removal of Pathogens from Feedlot Runoff
- Computer-Assisted Terrace Design for Improved Farmability
- Conservation Innovation Grant (CIG) Energy*A*Syst Comprehensive Farmstead Energy Self Assessment Tool Kit
- Conservation program (EQIP) Reduces Atrazine In Columbus, Ohio Drinking Water Supply Reservoir
- Dairy Farm Nutrient Management: A comparison of conventional, organic, and pasture-based systems
- Developing Water Budgets & Mapping Urban Water Use through Expert High-Resolution Satellite Image Analysis
- Integrating Geospatial Algorithms for Evaluating the Effect of Michigan's Agricultural Land Use on Water Quality
- Investigating The Critical Shear Stress and Erodibility Of Compost Blanket Under Concentrated Flow Conditions
- Nitrogen Credit Trading Tool to Facilitate Market Based Water Quality Trading
- NRCS Energy Consumption Awareness Tools
- Predicting land use change and Water quality impacts
- Project Grass Pasture Improvement-An economic and environmental gain for Pennsylvania farmers
- Quantification of the Environmental and Conservation Affects of Implementing Drainage Water Management (Controlled-Drainage) on Agricultural Cropland.
- Testing of a Nitrogen Index to Assess N Management Practices With GIS To Identify High-Risk Cropping System/Landscape Combinations
- The Environmental Impact of Five Beneficial Management Practises Are Being Assessed in a Small Watershed Located in Manitoba, Canada
- Use of Solar-Powered Watering Systems on Grazing Farms in Pennsylvania
- Using Technology for Effective Natural Resource Management: Asotin County

Integrated Watershed Management*

- A Stakeholder Alliance Addresses Watershed Management for the Pit River in Northeast California
- Assessing the Potential of Redesigning Land Use/Cover to Reduce Soil Erosion: A case study in the highlands of northern Ethiopia
- Cost-Effective Targeting of Riparian Wetlands in Agricultural Watersheds
- Developing an Index for the Ecosystem Services Provided by Riparian Buffers
- Developing and Implementing City-Wide Stormwater Management Strategies
- Facilitating Agricultural Resource Management Systems (FARMS) Program - Sustaining Agriculture and Water Resources
- Integrated Watershed Planning in the Bras d'Or Lakes, Nova Scotia, Canada
- Irrigation Practices and Water Conservation Options for Farmers in the Suwannee River Basin
- Lesson Learned in Designing a Market-based Program for Enhancing Environmental Services on Florida Ranchlands
- PL-566 Watershed Program: A forgotten crown jewel?
- Risk on Vernal Pool Ecosystem at Watershed Scale: GIS and modeling

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Soil Resources and Management

- A New Test for Integrated Assessment of Soil Quality
- A Novel Methodology to Evaluate Soil Erosion Tolerances (T) for the Canadian Prairies
- Assessing Nutrient Mass Balances of Selected Crops in the U.S., 1995-2005
- Diagnostic Nitrogen Testing for Predicting Corn Response to Nitrogen
- How Soil Moisture Content Affects Near-Infrared Reflectance of Sandy Soils
- Managing Crop Location with Farmers at the Watershed Level in order to Reduce Surface Runoff
- New Research and Field Experience in Transitioning from Waterway to Stream using Easy-to-Install Bio-technology
- Quantifying Soil and Nutrient Erosion in a Watershed: Validating the mesh bag method
- Restoring the Productivity of Sandy Soils by the Application of Bio-Solids in Saudi Arabia
- Sensible Soil Indicators of Improved Management Regimes
- Temporal Dynamics in Soil Erosion, Runoff, Nitrogen Losses and Crop Response under Hedgerow Systems in Tropical Mountainous Regions
- Using an Active Sensor to Calculate Site-Specific Nitrogen Sidedress Recommendations for Corn in Pennsylvania
- Variation in Soil Organic Carbon and Soil Hydraulic Properties in an Eroded Landscape

USDA CEAP: Research Results & Recommendations

- Analysis of Herbicide Transport from Goodwater Creek Experimental Watershed
- ANNAGNPS Model Capabilities and Application for CEAP Evaluation in Beasley Lake Watershed
- Application of SWAT and AnnAGNPS in the St. Joseph River Watershed
- Assessing Conservation Effects on Source Water Quality: What have we learned at the St. Joseph River Watershed
- Assessment of Streambank Dewatering as an In-Channel Conservation Measure
- Cannonsville Reservoir and Town Brook Watersheds: Documenting conservation efforts to protect New York City's drinking water
- Conservation Effects Assessment in the South Georgia Little River Watershed
- Conservation Practice Effects on Surface Water Quality in an Irrigated Watershed
- Conservation Practices in Little Topashaw Creek CEAP Watershed, Mississippi
- Designing Sampling Protocols for Evaluating Ecological Effects of Conservation Practices on Agricultural Streams
- Ecological Functions of Conservation Wetlands - Coastal Plain and Piedmont Regions
- Effects of a Regional Channel Stabilization Project on Suspended Sediment Yield
- Environmental Quality Research in Beasley Watershed, 1995-2006: Succession from conventional to conservation practices
- Evaluation of Conservation Practices in the NRCS CEAP Special Emphasis Stemple Creek Watershed
- Evaluation of Conservation Practices Using AnnAGNPS in the ARS CEAP Goodwin Creek Experimental Watershed
- Goodwin Creek, An ARS CEAP Benchmark Watershed
- Gypsum Soil Amendment as a Management Practice in No-till to Improve Water Quality.

- Impacts Nutrient Losses from Row Crop Agriculture in Indiana
- Integrated Water Management in Mexico: Building a framework for research
- Lessons Learned as Part of a National Multi-Agency Watershed Investigation in Canada—the WEBS project
- Long-term Stream Chemistry Trends in the Little River Experimental Watershed on the Coastal Plain of Southwest Georgia
- Monitoring Wetland Hydrology at a Watershed Scale: Dynamic information for adaptive management
- Object Modeling and Scaling of Landscape Processes and Conservation Effects in Agricultural Systems
- Observed Atrazine and Glyphosate Losses in Agricultural Drainage Water at Various Watershed Scales
- Relative Magnitudes and Sources of Sediment in CEAP-Benchmark Watersheds
- Relative Source Contributions of Eroded Sediment to the Suspended Load of CEAP Watersheds in Mississippi, Iowa, Georgia, and Oklahoma
- Remote Sensing of Cover Crop Nutrient Uptake on Maryland's Eastern Shore
- Responses of *Hyalella azteca* to Exposure to Sediments from CEAP and Similar Mississippi Delta Watersheds
- Simulation of Buffers in Three CEAP Watersheds Using the Riparian Ecosystem Management Model (REMM).
- Spatial and Temporal Variability of Nutrient, Metal, and Pesticide Concentrations in the Choptank River Watershed
- SWAT Assessment of Management Practices on Atrazine Loss in the Goodwater Creek Experimental Watershed
- The Impact of Watershed Diversity on SWAT Model Uncertainty: A comparison across USDA-ARS watersheds
- The Mark Twain Lake/Salt River CEAP project—Progress and preliminary findings
- Tillage Effects on Soil Properties and Spatial Variability in the Mississippi Delta Watersheds
- Validation of Paired Watersheds for Assessing Conservation Practices in Upper Big Walnut Creek Watershed, Ohio
- Water Quality and Conservation Practices in the South Fork of the Iowa River

Water Resources and Management

- Agricultural Water Conservation via Conservation Tillage and Thermal Infrared Imagery
- Challenges to Quantifying the Environmental Benefits of Conservation Practices: An example from Florida ranchlands
- City of Kissimmee Monitoring & Modeling Project
- Conservation Planning using the Brown's Gulch Digital Stream Corridor Assessment
- Effect of Brush Control on Evapotranspiration from Mesquite Trees in North Concho River Watershed in West Texas
- Evaluation of Herbicide and Nutrient Runoff Losses within Northern Missouri Agricultural Watersheds
- Evaluation of Vegetated Filter Areas for Treating Agricultural Process Wastewaters
- Fecal Coliform Total Maximum Daily Load - North Branch of the Sunrise River
- Forage Management Impacts I: Soil phosphorus fractions and P export in runoff
- Global Assessment of Best Practices in Payments for Ecosystem Services Programs

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- Growing Plants in Clumps to Manipulate Soil Water Use
- Implementing Statewide Pesticide Monitoring Using Local Resources and Immunoassay Methods
- Improving Best Management Practices Through Incentives: Lake Bloomington Watershed in Illinois
- Increasing Dissolved Phosphorus Loading to Lake Erie from Agricultural Watersheds: A conservation tillage trade-off?
- Increasing Soil Moisture Retention through the use of Pyrolyzed Biomass in a Coastal Plain Cornfield
- Lake Okeechobee Watershed Management, Planning and Implementation
- Location of Agricultural Activities and their Influence on Bacteria and Nutrients in Midsized Watershed Streams
- Measurement of Lateral Flow in a Subsurface Seepage Irrigation Potato Production Systems in Northeast Florida
- Modeling Economic and Environmental Impacts of BMPs Aimed at Improving Water Quality in South Tobacco Creek Watershed, Manitoba
- Monitoring Cattle Use Of Riparian Areas with GPS Collars
- Multiple Partners Provide the Key to Watershed Restoration Success in West Virginia
- Optimal Management of Non-point Source Pollution from Agriculture: An application of dynamic programming
- Phosphorus Trading in the Etowah River Basin
- Reduce Nitrate Leaching by Using Different Crops in Rotation with Potato
- Reducing Nutrient Loadings by Restoring Ecosystem Services on Tile-Drained Lands: The costs and benefits of bundling working land practices with targeted land retirement
- Regulations and Agricultural Cooperation and Outreach in the Southwest Florida Water Management District
- Restoration of Lake Apopka, Florida

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Poster Presentations

*2007 Area Of Special Interest

Adaptive Management of Conservation Efforts

- Applying Adaptive Management to Nitrogen Fertilization on Iowa Corn Fields
- Mechanical Thinning Impacts on Runoff, Infiltration, and Sediment Yield Following Small Diameter Timber Harvest in a Dry Mixed Conifer Forest

Conservation and Environmental Policy and Program Design

- Recovery of Stream Health after Cattle Exclusion
- Working-Lands Conservation in U.S. Corn Production: Evidence on program participants and non-participants

Conservation Education

- Natural Resource Web Sites for Youth
- New Interactive Tool for Educational and Training Provision in SIA
- Phosphorus Management Education for Poultry Producers in Arkansas
- WaterWorks! A Tennessee Resource for Stormwater Education and Outreach

Conservation Implications of a Bio-based Economy*

- Balancing Crop Biomass for Bioenergy and Conservation

Conservation in Urban Settings

- Infiltration Based Practices for Urban Landscapes
- Land Evaluation Site Assessment - Farmland Protection and Landuse Change
- Urban Wetland Conservation and Increasing Land Value: A private sector perspective in urban wetland restoration

Conservation Tools and Technologies

- A Simple Performance-based Tool for Determining Filter Strip Width
- Assessment of Mineral Nitrogen Dynamic and its Concentration in the Soil Profile with the Updated NLEAP V.2 model: A case study in South Central Bulgaria
- Certified Environmental Management Systems for Agriculture (CEMSA) - Experiencing Environmental Management System Development, Implementation, and Evaluation
- Conservation Planning for Biodiversity Conservation in the Luangwa River Watershed, Zambia
- Filter Strip Attenuation of Feedlot Runoff Contaminants
- Managing Pine Straw Harvests to Minimize Soil and Water Losses
- Muddy Creek and Mill Coulee Water Quality Assessment
- New Technology for Separation of Sand from Manure Streams, to Improve Farm Sustainability and Profitability
- Nitrogen Leaching on Fluvisols under Vegetable Cropping System: An assessment with the NLEAP model in Southern Bulgaria
- The Change and Prediction of Soil Erosion at Niche Gou Catchment
- Winter Cereal Termination and Cotton Yield following a Mechanical Roller
- Zinc Increased Rooting by 280% in Transplants

Integrated Watershed Management*

- IUH Nash Conceptual Model Adjustment for a Tropical Brazilian Watershed
- Water Erosion Simulation in a Watershed of the Alto Rio Grande Region, Brazil

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Soil Quality: Special Poster Session

- Assessment of Soil Quality in Southern New England Sod Farms
- Conservation Tillage Systems within a Corn Soybean Rotation and the Relationships to Soil Quality
- Effects of Biosolid Treatments on Microbial properties in Lead Contaminated Mining Waste
- Field Scale Evaluation of Crop Residue Cover Distribution Using Airborne and Satellite Remote Sensing
- Forage Management Impacts II: Soil quality and Nitrogen export in runoff
- In-Field Training Puts Diagnostic Tools in the Hands of Agri-business
- Investigation of Soil Conditioning Index Values for Southern High Plains Agroecosystems
- Precision Manure Management Strategies using Site Specific Management Zones
- Reducing Irrigation Needs through Compost
- Selecting Perennial Plant Species to Improve Soil Hydraulic Properties
- Soil Carbon Sequestration from Animal Manure Applied to and Dropped onto Pastures
- Soil Infiltration Response to Acute and Chronic Exposure to Slightly Saline, Highly Sodic Water
- Title: Tillage, crop residue and N fertilizer effects on crop yield, nutrient uptake, soil properties and greenhouse gas emissions
- Wisconsin Soil Quality Team Educational Program

Soil Resources and Management

- Conservation Tillage and Rye as a Winter Cover Crop for Cotton
- Dry Creek Long-term Watershed Study: Effects of harvesting on soil movement using mesh bag technique
- Economic Performance of Alternative Tillage Systems in the northern Corn Belt
- Effect of Organic Matter Buildup on Yield in Long-Term Conservation vs. Conventional Tillage
- Evaluating Potential Impacts of Land-Applied Food Processing By-Products on Soil Quality and Plant Nutrients
- Improving Nitrogen Use Efficiency with Sidedressed Fertilizer Nitrogen on Farmer's Corn Fields
- Influence of Cropping system, Suitability and Topographic Land Type on Land Degradation in Southwestern Nigeria
- Long-term No-Till Improves Soil Properties and Increases Grain Yield
- Rainfall Erosivity Behavior for Minas Gerais State, Brazil
- SimPLE: A model to simulate productivity lost to erosion in Canada

USDA CEAP: Research Results & Recommendations

- A Water Quality Evaluation of the Leon River Watershed using the Soil and Water Assessment Tool
- CEAP Soil Quality Assessments for the USDA-ARS Experimental Watersheds
- Comparing Measured and Modeled Soil Carbon Contents Over 55 Years
- Conservation Practice Implementation History and Trends in Cheney Lake Watershed
- Database Development for the Cedar Creek and St. Joseph River Watersheds
- Effects of Cover Crops on Physical Properties and C/N Sequestration in Coastal Plain Soils under Conservation Tillage
- Evaluating Ditch Drainage Control Structures for Mitigating Export Of Nitrogen from Agricultural Fields in the Choptank River Watershed
- Evaluation of SWAT2005 Phosphorus Transport in the South Fork of the Iowa River Watershed
- Hyperspectral Remote Sensing Estimation of Crop Residue Cover: Soil mineralogy, surface conditions, and their effects
- Impacts of Surface Drainage Systems on Water Quality in Midwest Depressional Landscapes
- Loss of Dissolved Carbon from Two Fields in the St. Joseph Watershed in Northeastern Indiana
- Optimization Perspectives for Organic Fertilizer: On-Farm Economic Throughput and Environmental Effects
- Overview of CEAP Activities in the Leon River and Riesel Watersheds
- Quantifying the Impact of Conservation Practices at the Choptank Watershed in Maryland using AnnAGNPS Model
- Relative Contributions of Habitat and Water Quality to Integrity of Aquatic Communities in Drainage Ditches
- Soil Quality Assessment in the Iowa South Fork Watershed
- STEWARDS Watershed Data System: System design and implementation
- STEWARDS Watershed Data System: User perspective, operation and application
- The Extent of Farm Drainage in the United States
- Three SWAT CEAP Simulations and Recent Model Developments
- Use of Natural Gamma-Ray Geophysical Logs for SWAT Water Table Parameter Estimation
- Walnut Creek, IA - An ARS CEAP Watershed
- Water Quality Evaluations Comparing Cultivated Soybean Fields With Recently Converted Conservation Reserve Areas

Water Resources and Management

- Evaluation of Buffer Strip Effectiveness at Mitigating Water Quality Impairment from Animal Feeding Operations
- In the Ditch: Results and impacts of collaborative efforts on federal irrigation projects
- Lake Water Supply Management: A cooperative approach
- Nitrogen Export and Speciation from Edge-of-Field Runoff from Agricultural Fields in Southwest Wisconsin
- The Iowa Soybean Association Watershed Programming: The Boone River Watershed Project

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