

**NCSS User Perspectives Panel,
1890 Universities**

Prepared By:

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1890 Institutions

Alabama A&M University

Alcorn State University

Delaware State University

Florida A&M University

Fort Valley State University

Kentucky State University

Langston University

Lincoln University

North Carolina A&T State University

Prairie View A&M University

South Carolina State University

Southern University

Tennessee State University

Tuskegee University

University of Arkansas-Pine Bluff

University of Maryland Eastern Shore

Virginia State University

West Virginia State University

Soils Related 1890 Research Projects

Information gathered from ARD 2009 - 1890 Research:

**Sustainable Solutions for the 21st Century, 15th Biennial
Research Symposium, Atlanta, Georgia**

Oral and Poster Presentations Listed by Program Areas

Emerging Technologies

Renewable Resources and Environmental Stewardship

Small Scale Agriculture and Rural Development

Food Safety, Health and Nutrition

Emerging Technologies (11)

Effect of Antimicrobial Synthetic Peptide D4E1 on Cotton Seedling Disease and Soil Microbial Diversity. Odom, L. Tuskegee University

Development of Real-Time GIS/Hydrology Flood Warning System for First Responders. Lekote, O. South Carolina State University

Experiential Learning and Research to Promote Environmentally Conscious Agricultural Practices. Henry, X. University of Maryland Eastern Shore

Renewable Resources & Environmental Stewardship (48)

**Bacterial Source Tracking for In-Stream Water Samples. Hill,
L.B. Alabama A&M University**

**Spatial and Temporal Variability of Fish Assemblages on
Gravel Bars** in the Arkansas River. Will, L. University of
Arkansas at Pine Bluff.

**Using Recycled Paper in Composting for Organic Matter
Production to Increase Microbial Communities and to
Enhance Soil Quality**. Biley, J. Prairie View A&M
University

Carbon Decomposition in an Organic Farming System. Sissoko,
A. Tuskegee University

Small Scale Agriculture and Rural Development (4)

Soil Amendments Modify Organic Sulfur Compounds in Field-Grown Onions. Perkins, E. Kentucky State University

Marketable Yield of Nutrient Film Technology (NFT) Grown Beetroot: Influence of Mineral Nutrient Source Growing Environment and Substrate. Egilla, J. Lincoln University

Identifying Macro and Micronutrient Deficiency Disorders in Okra, Eggplant and Spinach. Pitchay, D. Tennessee State University

Food Safety, Human Nutrition and Health (3)

Screening Capsicum chinense Fruits of the World for Heavy Metal. Antonious, G. Kentucky State Univ.

Eating Dirt: A Survey of **Kaolin Consumption** in a Rural, Community. Purdie, T. Annapolis. Tuskegee University.

Novel Application of GIS to Measure Food Access in Rural Alabama. Bovell-Benjamin, A. Tuskegee Univ.

Opportunities for Linkages Between NCSS and 1890s

Individuals with focused scientific training may work cooperatively on specific narrowly focused soil related issues.

Institutions may work collaboratively on regional research projects that serve to strengthen all partners through a well defined project focus and by sharing the funding in a reasonable manner such that all participants receive benefits based on agreed inputs.

Conclusions

Summary of Soils Related 1890 Research Projects presented at ARD 2009 indicated the following order of project numbers from highest to lowest:

	<u>#</u>
Renewable Resources & Environ. Stewardship	48
Emerging Technologies	11
Small Scale Agriculture and Rural Development	4
Food Safety, Health and Nutrition	<u>3</u>
	Total= 66

Conclusions (continued)

The 1890 Institutions can provide an important service to the NCSS Program by leveraging intellectual resources against the limited faculty/staff and budget data.

The 1890 Institutions students must be exposed to the natural and life sciences during at least the second semester of the freshmen year in order to make them aware of career opportunities with the USDA NRCS and partner institutions.

Conclusions (continued)

Internship and other job opportunities must continue to be marketed toward the 1890 Institutions students, using all channels available to the USDA NRCS.

The 1890 Institutions and the USDA NRCS must continue to strengthen the partnership that has allowed the NCSS to achieve the goal of providing a valuable service to society.