

# Partnerships and the New Soil Survey on All Lands The Next Decade

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U.S. National Cooperative  
Soil Survey Conference

# Partnerships - The Next Decade

## NCSS Conference Hosts

- NRCS – New Mexico
- ARS – Jornada Experiment Station
- New Mexico State University

## Agenda Coordination

- Maxine Levin - NRCS

# Partnerships - The Next Decade

## NCSS Standing Committees/Co-Chairs

- Research
  - Larry West, Nancy Cavallaro
- Standards
  - Craig Ditzler, Wayne Robbie
- New Technology
  - Phillip Owens, Jon Hempel
- Interpretations
  - Chris Smith, Wayne Hudnall

# Partnerships - The Next Decade

## NCSS Working Groups/Co-Chairs

- Gypsum Soils – (Summary 4 years)  
(W & S Regions)
- Soil Change – (New)
  - Susan Andrews, Joey Shaw  
(W & NC Regions)
- Subaqueous Soils – (New)
  - Mike Wilson, Mark Stolt  
(NE & S Regions)
- Digital Soil Mapping (All Regions)

# Partnerships - The Next Decade

- SSD Priorities

1. Initial Soil Mapping Non-Federal & Native American Lands

- Complete by end of 2011

# Partnerships - The Next Decade

## ■ SSD Priorities

### 2. Fully Implement MLRA Restructure

- 145 Permanent Soil Survey Areas
- 95% Offices Implemented with MLRA Soil Survey Leaders
- 5% Waivers to complete Initial Soil Mapping Projects

# Partnerships - The Next Decade

## ■ SSD Priorities

### 3a. Technology Development

- Web Soil Survey
  - Content Manager
  - Author text, Historic reports, articles, photos, etc;
- Soil Resource Information Tool Box (SRITB)
  - Digital Mapping Tools
  - Pedon PC & Analysis Tools

# Partnerships - The Next Decade

## ■ SSD Priorities

### 3b. Technology Development

- NASIS 6.x
  - Site/Point Integration
  - Dynamic Soil Property data
  - Ksat water monitored data
  - NCSS & local lab data
  - Ecological site data
- National Soil Geographic Database
  - Check out – Check in

# Partnerships - The Next Decade

## ■ SSD Priorities

### 4. Soil Quality

- Ecological Site Inventory
- State & Transition Models
- Dynamic Soil properties
- Climate Change – (Carbon sinks)
- Implementation of Farm Bill
- Conservation Planning

# Partnerships - The Next Decade

- SSD Priorities

- 5. Technical Soil Services

- Support Resource Soil Scientists
    - Support State Soil Scientist
    - Utilize Regional Technical Center Soil Scientists for technology transfer

# Partnerships - The Next Decade

- MLRA Soil Survey Office's
  - Long Range Plan
    - Group entire area into projects
    - Develop Research & Special Study Projects
    - Develop New Interpretations
    - Prioritize projects
  - MLRA Project Plan
    - Detail plan to update or inventory specific area
    - Identified by series or catena of soils
  - Annual Business Plan
    - Who does what and when annually

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- Ecological Site Inventory
  - Collaboration with other Disciplines
  - ESD Handbook (NRCS, BLM, FS)
  - Plant Ecologists – Inventory vegetation
  - New Soil Change Guide – Developed here at Las Cruces

# Partnerships - The Next Decade

- Federal Lands Advisory Group
  - Plans to Inventory All Lands in US
  - Utilize TEUI Geospatial Toolkit (Mapping and Analysis)
  - Improve Connectivity of NASIS-ESIS-NRIS data

# Partnerships - The Next Decade

## ■ NCSS Partnerships

- State & Local Lab Data entered into LIMS
  - Focus on Benchmark Soils to Fill Data Gaps/Voids on multiple Land-uses
- Funding for Research Projects (Managed by NSSC)
  - Focus on Benchmarks and other Major soils
  - Examples: Ksat & Carbon
  - NPS is Front Runner for Research Projects & Special Studies

# Partnerships - The Next Decade

- International Topics (this week)
  - Australia – Dr. Alex McBratney
  - Hungary – Dr. Erica Micheli
  - Spain – Emilio Ascaso (Luis Hernandez)
  - Canada – Scott Smith
  - Mexico – Samuel Garcia (Wayne Gabriel)
  - North American Carbon Program-Nancy Cavallaro
  - Global Soil Map – Dr. Pedro Sanchez
  - Global Soil Classification System –Golden
  - Others

# Partnerships - The Next Decade

- Soil Survey Division
  - Long Term Goals
    - Global Soil Classification System
    - Introduce Raster base soil survey
    - Fill in Soil Data Gaps for ALL Lands (Seamless)

# Partnerships - The Next Decade

- Soil Geomorphic Institute
  - Alabama A&M – June 2009
  - University of California-Davis 2010

# Partnerships - The Next Decade

- Student Participation
  - 1<sup>st</sup> Year with Student Forum emphasis
  - Sponsored by Universities
  - Coordination by CSREES
  - Hispanic Serving Institutions
  - Posters & Talks – Interact with Students

# Partnerships - The Next Decade

2009 NCSS Conference Theme

*Soil Survey – Ecological  
Relationships and Soil Change in  
the  
New Soil Survey*

# Partnerships - The Next Decade

**Questions ?????**

**Comments !!!!**

**Thank you ....**