

Research Needs Toby O'Geen

Charges:

- 1. Multistate project**
- 2. NSSL Pedon Data Collection Project**
- 3. Gypsiferous Soils Project**
- 4. Digital Soil Mapping Projects**

1. Regional Project

Discussed project details surrounding site selection, experimental design, lab analysis and data management

Verified the generous level of lab support that is being offered by the Soil Survey Lab

Recommendations:

- 1. showcase preliminary results at the NCSS national meeting and visit a site on the field trip**
- 2. Coordinate ecological site descriptions at each instrumented site**

2. Point data collection of pedon descriptions and lab data for NSSL

**Discussed a no cost extension for existing
contracts**

Discussed use of pedon pc

Discussed meta data needs

Recommendations:

None

3. Gypsiferous soils project

Outlined two main collaborative efforts 1. committee interactions and 2 gypsiferous soil symposiums at SSSA meetings

Research is needed in areas surrounding laboratory characterization methods, soil geomorphology and ecosystem functions

Recommendations:

This project needs to continue

Need a taskforce on the ecology of gypsiferous landscapes

4. Digital soil mapping

Discussed projects by Bruce Frazier, Toby O'Geen and Jay Noller

Bruce's project clasified vegetation using ASTER data and compared it with Landsat TM. ASTER had a higher classification accuracy 68% vs 57%

Toby's work with Pete Biggam and Dave Smith at Pinnacles National monument developed solar radiation model as a predictive tool to map soil components. Logistic models that coupled solar radiation with parent material had significantly higher classification accuracy.

Jay has completed three projects and starting two more.

Opportunities to get more involved in the global soil mapping project

Recommendations:

This committee and the applied technology/digital soil mapping committee and soil change ad hoc committee have potential synergism...opportunities to link

Other

Need to open lines of communication among cooperators

We support the sharepoint (applied tech comm.) where people exchange info via internet, but more is needed.