Soil Survey: Beyond the Symposium
Doug Wysocki
NL Soil Survey Research and Laboratory
NRCS-NSSC Lincoln, NE

Soil Survey Tools
Global Positioning
Raster Attributes
Proximal Sensing
Data Handling

Soil as a Continuum
Reappraisal of the Soil.

- “The very concept of soil species is vague” and is “an example of the influence of biological sciences.”
- Soil is a “patterned spatial system.” “Dissection of this system on a basis of ill-defined, abstract soil species may serve select practical purposes, but has no scientific basis.”

Key Concepts
1. Utilize and Improve Soil Landscape Models.
   - Conceptual understanding and communication
   - Hypothesis testing
2. Integrate landscape hydrology, soil distribution, and function.
3. Soil Information on a raster basis.
   - Collection
   - Presentation
   - Understanding
4. Soil Continuum
   - Spatial Architecture
   - Temporal Architecture
By Bk

Read the morphology to know where the water is going!

Central High Plains

Tableland
Closed Depression
Loess
Ogallala Formation
Box Butte County, NE

Climate Impact on Water Flow in Soilscapes

HUMID

SUB-HUMID
Discharge
Recharge
Recharge
Discharge

SEMI-ARID
Recharge
Flowthrough
Recharge
Recharge

Richardson et al. 1991
Drumlinized ground moraine in SW Menominee County, MI (UP)

What is the soil and property variability?

Wysocki

Soil Map Unit 2

Soil Map Unit 1

Spatial Variability Systematic and Random

Spatial Architecture Temporal Architecture

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