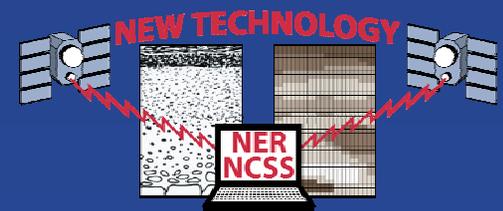


# 2008 Committee Report

## Northeast Region National Cooperative Soil Survey New Technology Committee



# Agenda

- Review Charges and Accomplishments from 2006
- Revise and Update Charges for 2010
- New Recommendations
- Update Bylaws
- New Chair and Chair-elect

# 2006 Charges and Accomplishments

- A complete list of charges and accomplishments is available from
  - [https://sharepoint.ngdc.wvu.edu/sites/ner-ncss\\_conference/newtech](https://sharepoint.ngdc.wvu.edu/sites/ner-ncss_conference/newtech)
- Selected recommendations and accomplishments...

# Direct access to SSURGO data

- Soil Data Access (<http://sdmdataaccess.nrcs.usda.gov/>) web services include:
  - <http://SDMDataAccess.nrcs.usda.gov/Tabular/SDMTabularService.asmx>  
(Tabular data)
  - <http://SDMDataAccess.nrcs.usda.gov/Spatial/SDMWGS84Geographic.wfs>  
(Spatial data in WGS84 Geographic coordinates)
  - <http://SDMDataAccess.nrcs.usda.gov/Spatial/SDMNAD83UTM.wfs>  
(Spatial data in NAD83 UTM coordinates)
  - <http://SDMDataAccess.nrcs.usda.gov/Spatial/SDM.wms>  
(Map images) this service returns map images in common image formats such as JPEG, GIF, PNG, and others.

# *Recommended GIS/RS skills for soil scientists*

- Marc Crouch, Soil Survey Division Training Coordinator, and a team of soil scientists developed GIS and Remote Sensing training recommendations for soil scientists. That information is available from the Soil Survey Division Training Page (<http://www.soils.usda.gov/education/training/>)
  - Recommended training for soil scientists at various levels within the division are posted in the strategic plan (<http://www.soils.usda.gov/education/training/plans.html>)
  - Lists of available training by format and topic can be found at <http://www.soils.usda.gov/education/training/descriptions.html>

# 2008 Themes

- Theme 1: Explore data collection tools for improving the quality of existing soil survey data
- Theme 2: Explore new ways of visualizing and delivering soil survey data

## 2008 Themes

- Theme 3: Explore data analysis tools and effects of data quality on the analysis
- Theme 4: Explore strategies for information sharing and technology transfer
- We recommend that these themes carry forward to 2010)

# 2008 Recommendations

- Theme 1
  - Support continued acquisition of high resolution elevation data and high spatial and spectral resolution imagery.
  - Develop a resource base that describes how DEM or RS data are used, what kinds (NED vs. LIDAR, CIR, satellite, leaf-on vs. leaf-off), choice of resolution, choice of software to use, available methodologies (and their pros and cons), examples, etc.

# 2008 Recommendations

- Theme 1
  - Promote further development of data collection tools, particularly improvements to PedonPC
    - Finger-driven navigation and data entry
    - Interactive data entry (voice-driven)
    - Usability Matrix – Pros, Cons, Uses of field tools

# 2008 Recommendations

- Theme 2
  - Develop realistic, three-dimensional block diagrams that illustrate relationship between soil map unit boundaries and what is happening below the surface.
  - Deliver soil survey data draped over a DEM (as well as imagery) Web Soil Survey.

# 2008 Recommendations

- Theme 3
  - Provide more explicit guidance on pros and cons of imagery, elevation data sources, and digital mapping methods

# 2008 Recommendations

- Theme 4
  - Investigate how NRCS (e.g., the corporate soils database) can exchange data (in addition to laboratory data) from non-NRCS or non-NCSS partner sources.
  - Similarly, work with non-NRCS and non-NCSS partners to ensure that data collection methods and data recording protocols are commensurate with current NRCS standards

# Bylaws Update

- The New Technology Committee proposed to establish a Chair and Chair-elect for 2010 conference
- At the end of each conference
  - Chair rotates off the committee
  - Chair-elect becomes the Chair
  - New Chair-elect is elected

# 2010 New Technology Chair and Chair-elect

- Chair: Tim Prescott, MO-13 GIS Specialist
- Chair-elect: Darcy Boellstorff, Assistant Professor, Bridgewater State College