

New Technology Committee

1. Identify potential new technologies to support field activities in the processing of existing digital spatial data.

The committee did not come up with any new technologies, however we believe there is a need for existing products like Lidar derived slope products to be available to everyone.

2. Identify new technologies and methodologies that can support and/or enhance digital soil survey activities.

Minnesota is proposing a total digital product (raster) for the Boundary Water Canoe Area Wilderness (BWCAW). Standards need to be developed for cell size and confidence levels. Metadata will have to thoroughly explain the processes in developing the map.

Spatial disaggregation will produce raster-based, landscape-scale predictions of components at a variety of resolutions.

3. Identify the need for soil property maps, the required map scales for soil property maps and what soil properties to map.

Several soil properties were discussed and it was decided that current products such as Soil Data Viewer, Soil Data Mart and Web Soil Survey provide users access to this data. The upcoming version of Web Soil Survey will have an increased area of interest of at least 100,000 acres to assist in addressing this issue. There is still a need for a public library of queries for use in soil data access (SDA)

4. Investigate ways and propose methods to provide end users with accuracy measurements for soil maps.

Is there a need for end users to have accuracy data? Potentially easier to provide an accuracy statement in future raster products.

5. Gridded SSURGO.

A snapshot of the SSURGO data available in January will be released in June at 10 meters served through state tiles. A webinar is proposed for July. The gSSURGO will be available by request through the Gateway.

6. Need mobile devices for soil survey that are compatible with CDSI.

CDSI has not picked a mobile device and there are NSSC members on the CDSI committee, so until a platform is chosen we offer no suggestions.

7. Need more support and training for digital pens if they are to be used effectively. Need standardized Pedon entry forms. There is a big need for pedons to be entered for SDJR and the digital pens could help with this.

New Technology Committee concurs there is a need for standardized Pedon entry selectable menu forms for the digital pen. NSSC is proposing placement of standardized forms on a sharepoint site.

8. Identify ways and means to incorporate actual field measured EMI data into national database

This data could be incorporated as a field measured property in Pedon within NASIS.

9. Identify methodologies to check the NASIS generated interpretations with actual measured field properties and land uses. Items such as, ksat, DSP, EMI and GPR.

There is a need for defining standard methodologies for bulk density, KSAT, etc. There are too many methods of collecting data for a standard methodology to check.

10. Utilize GIS, Remote Sensing, and Image Analysis technologies in concert with fieldwork to develop regional and MLRA Soil Landscape models that can be used to improve SSURGO and NASIS.

The New Technology Committee supports the statement.

11. Continue to have issues with ITS over deployment of computers and software for soil survey, which varies from state to state. For example, some states already have Arc 10, while others do not. Need to have more national consistency on IT issues.

There is a National Bulletin which addresses Arc 10. Yes, there is an internal application issue within ITS, in allowing non-CCE software in some states and not in others.

12. Use of Google Earth.

The committee would like to see an NRCS agency enterprise license at least for the Google Earth freeware.

Members of the committee for 2012 included:

Chad Remley Chair, Kansas

Mark Willoughby, Nebraska

Patrick Cowsert, Nebraska

Caryl Radtz, Minnesota

Asghar Chowdhery, Indiana

Jeff Glanville, Indiana

Jo Parsley, Nebraska

David Hoover, NSSC

Steve Peaslee, NSSC

New Chair for the 2014 regional meeting is Jeff Glanville.