

Soil Business Area Analysis Group SBAAG

Western Regional Cooperative Soil Survey
Conference
Davis, CA
June 28, 2012

Overview of SBAAG

Purpose

- Define an integrated soils information system.
- Develop and maintain the priority slate of projects.
- Serves as a management review body for analysis documents.
- Form ad-hoc teams to get input on specific business concerns.
- Develop draft requirements for applications.

Function

- Identify emerging agency soil data needs that may impact soil business.
- Ensure an integrated approach with other disciplines and technologies.
- Review issues, evaluate impacts, develop recommendations for the SSD leadership.

Organization

- *Executive Sponsor (1)*
 - SSD Director
- *Rotating Members (3)*
 - SSS
 - MO Leaders
- *Liaisons*
 - Ft. Collins ITC
 - NSSC
 - NGMC
- *Ad Hoc Advisory Members*
 - Specialists as needed
- *Advisors*
 - NRCS CIO
 - National Leaders (SSD, NSSC)

gSSURGO – Gridded SSURGO

Driving forces for
new product

Our customers
need more soil
information,
faster as a raster

Repackaged for
large land areas
(States & MO's)

Value Added Look
Up (VALU) Table
(with documented
methods)

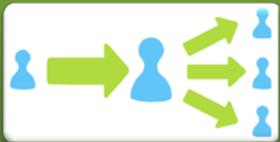
gSSURGO Package



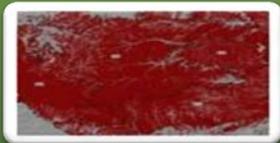
Publicly available at NRCS Geospatial Gateway 2012
<http://datagateway.nrcs.usda.gov>



State-wide vector and 10 meter raster map unit key GIS layers (mupolygon and muRaster_10m) and tables



ArcGIS 9.2 File Geodatabase with pre-built relationship classes among many, hierarchical attribute tables



Pre-calculated or -summarized attributes in standard layers and zones in VALU Table e.g. Droughty Soil Landscapes



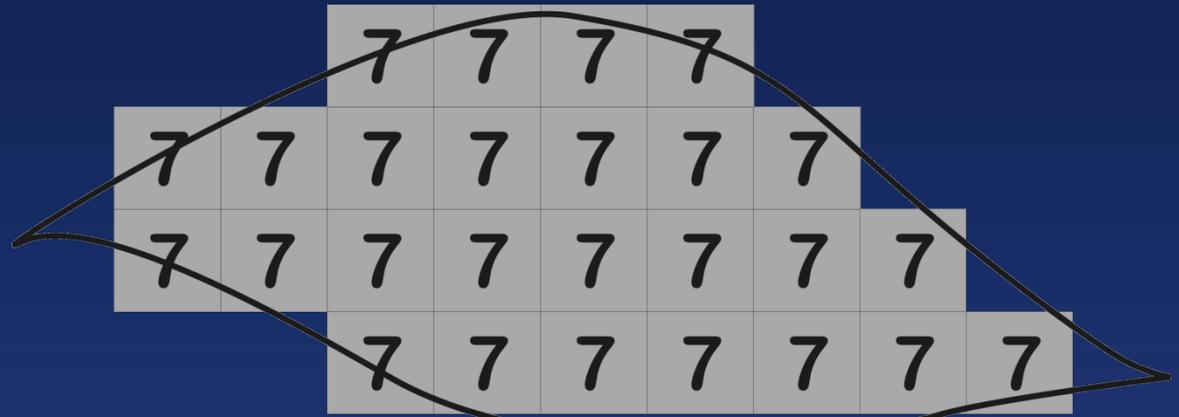
Planned SSURGO Package for Wetlands Mappers (includes 8 State-wide tables ready for MS Access import)

Soil Vector Model



The first 100 years of soil survey had an emphasis on delineating the soil polygon and then describing the range of soil types within that delineation

Soil Raster Generation 1



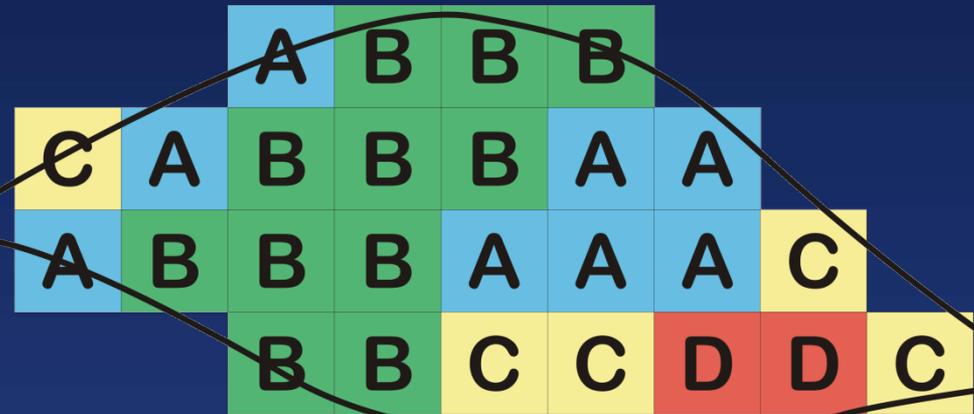
The first “gSSURGO” product will contain a set of 10m grids that will have the same map unit identifier as the vector polygons they formed from.

The raster map unit identifier will link to the same attribute databases as the SSURGO vector data.

The difference is that now the raster data can integrate better with other data sources such as satellite and elevation data and can also lead to improved soil and terrain modeling products

Soil Raster Generation 2

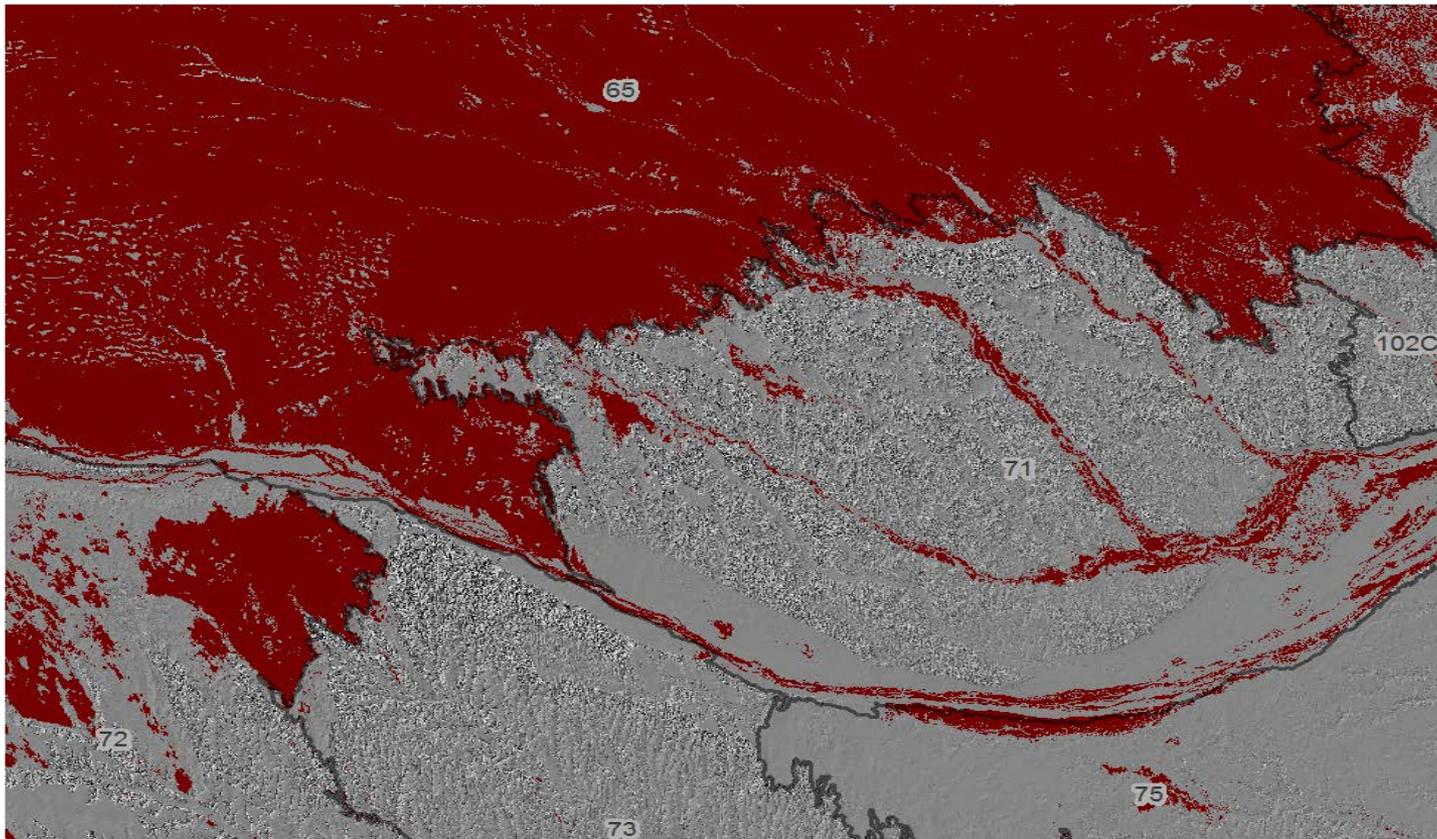
The second soil raster product will show the location of all types of soil within the original soil vector polygons



Locations of components are determined by geospatial analysis which is led by manuscript and tacit knowledge

Each raster cell has a “certainty” value associated with it as to how well it might fit the concept of that included soil

gSSURGO Value Added Look Up (VALU) Table: e.g. Droughty Soil Landscapes – RZAWS \leq 6" or 15.24cm



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