



Soil Data Join Recorrelation Initiative

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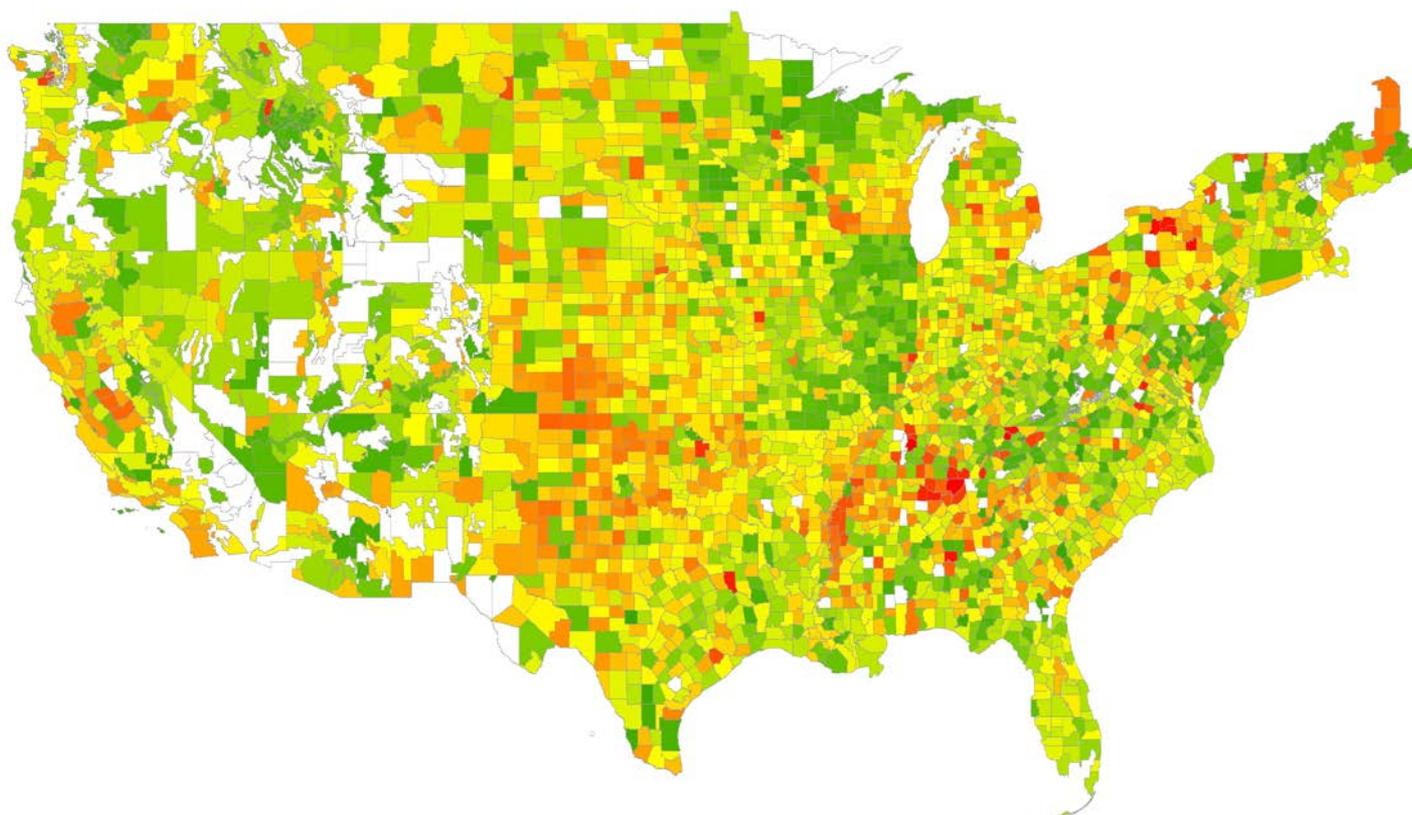


Soil Data Join Recorrelation Initiative

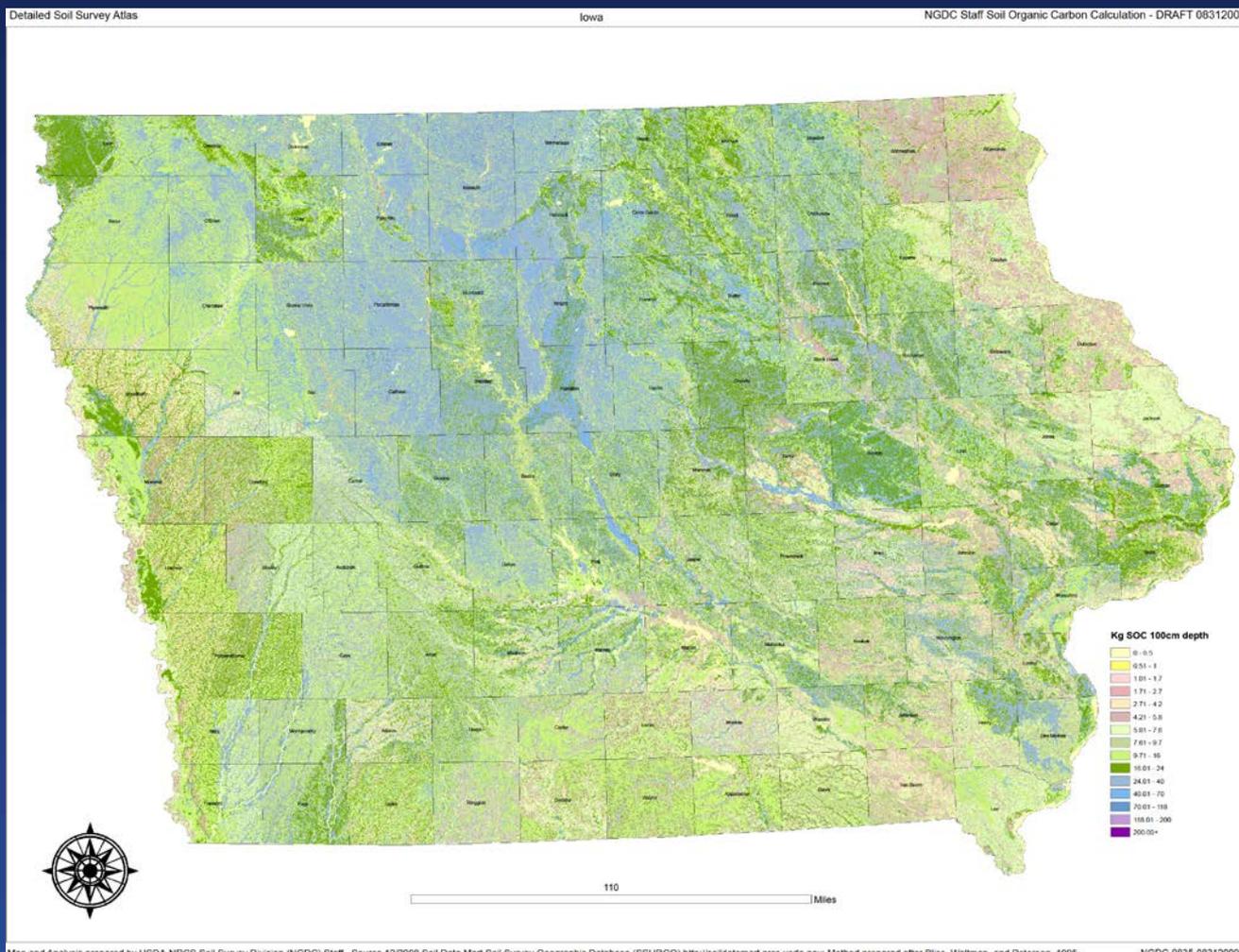
- Overview and background
 - Purpose, Issues, Objectives, Initiative
- National Instruction Highlights
- FY12 and beyond

What are the issues?

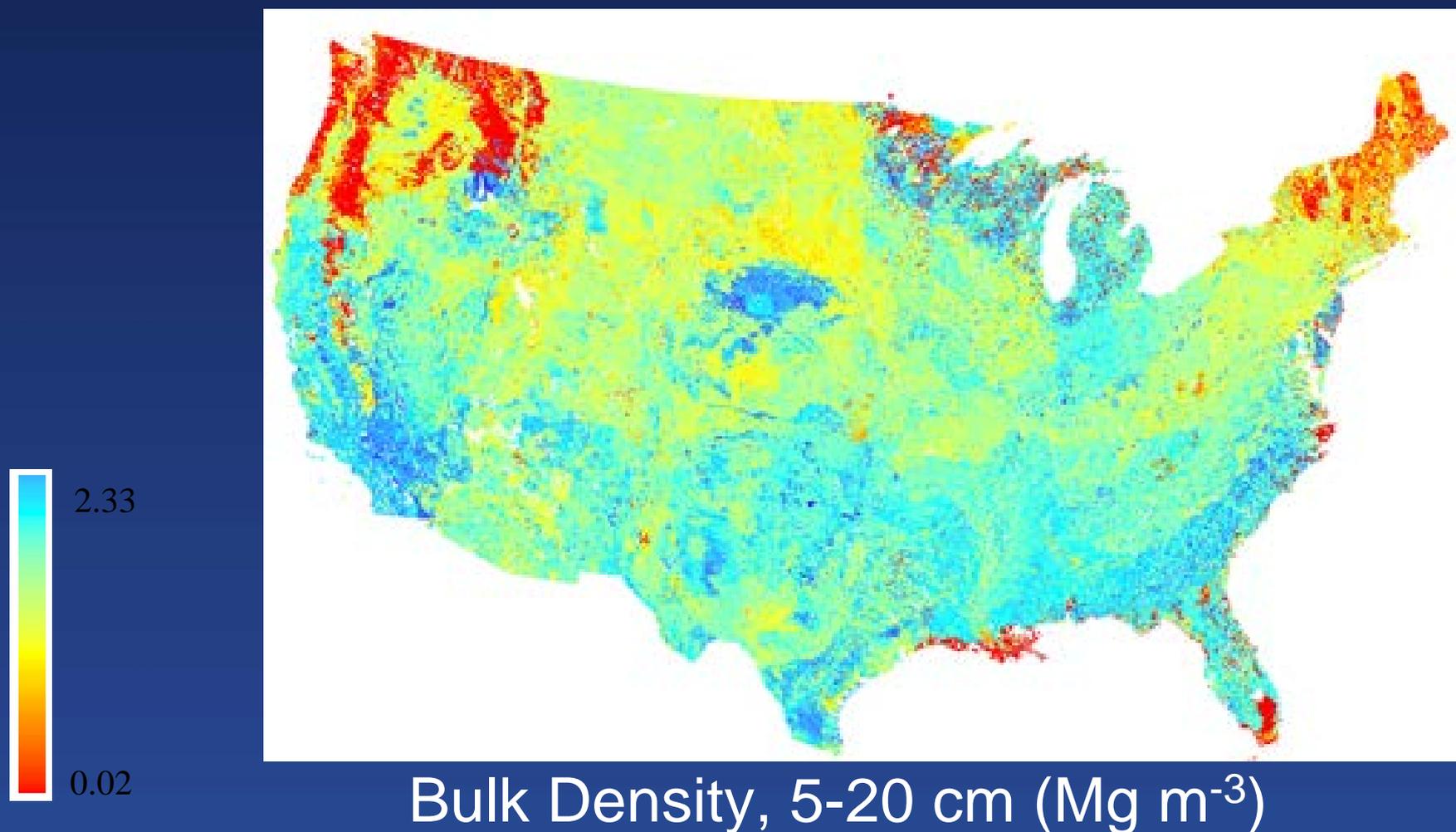
Soil Survey Correlation Dates
Gradation 1940s Red to 2000s Green



Issues: Statewide Interpretations

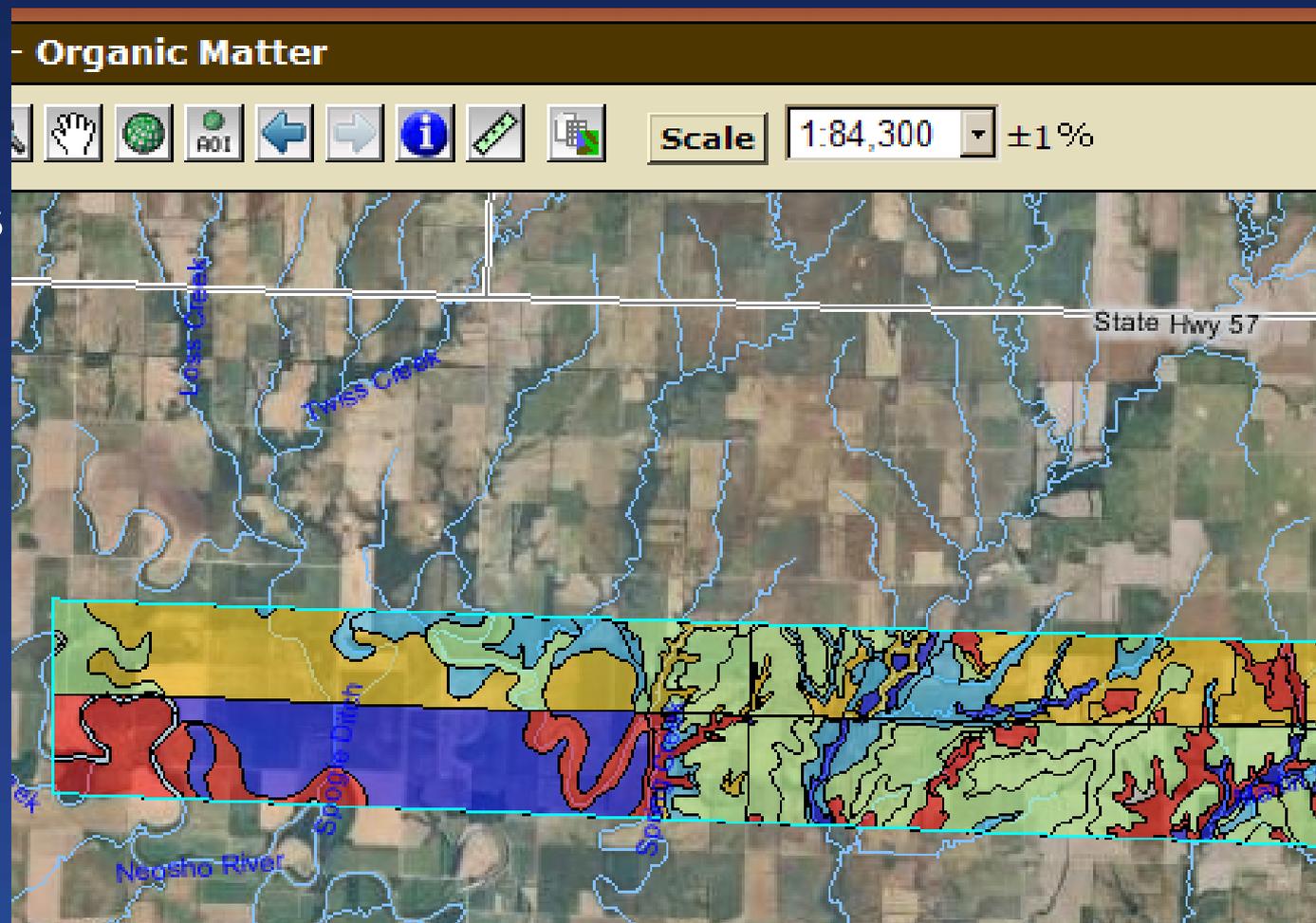


Issues: Nationwide Soil Property Data users



What are the issues?

Lines join,
interpretations
differ.

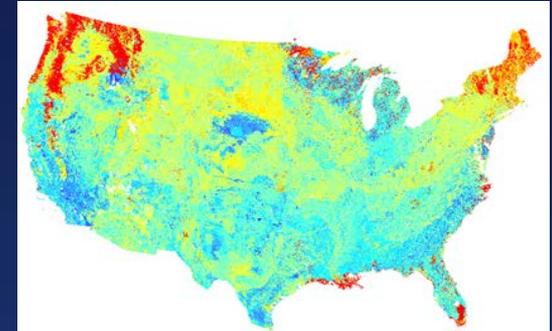


Overview and Background



- Chief's decision memo regarding NASIS
 - Improve the database
 - Accelerate MLRA approach by re-correlating data joins (harmonization)
 - Accelerate Phase 1 of MLRA update
 - Goal is Seamless soil survey data

Division Priority



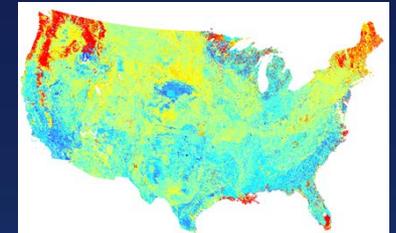
- FY- 2012 Soils Division Priorities
 - Begin a multi-year initiative to complete Soil Survey Data Join Re-correlation (often referred to as harmonization) so that soils information matches from county to county and state to state on 1 billion acres

Division Director Charge:



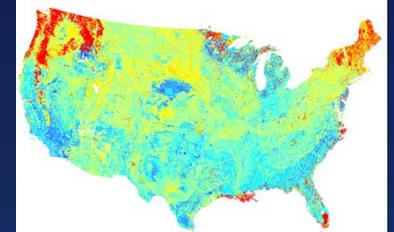
- Establish Advisory and Technical teams to look at accelerating Phase I (data harmonization) of MLRA updates
 - Provide advice for implementation
 - Develop objectives, goals, and direction
- Advisory Team
 - 5 MO Leaders
 - 3 State Soil Scientists
 - 4 NSSC
 - 1 NHQ
- Technical Team
 - SDQS from each MO
 - 7 technical leads NSSC

Basic Objectives - SDJR



- Support the development of seamless soils data
 - Conservation Delivery Streamlining Initiative (CDSI)
 - USDA Farm Bill Programs,
 - Added Value SSURGO products
- Process resulting in:
 - correlation of similar data map units
 - **Existing** legacy data, laboratory data, and expert knowledge

Basic Objectives - SDJR

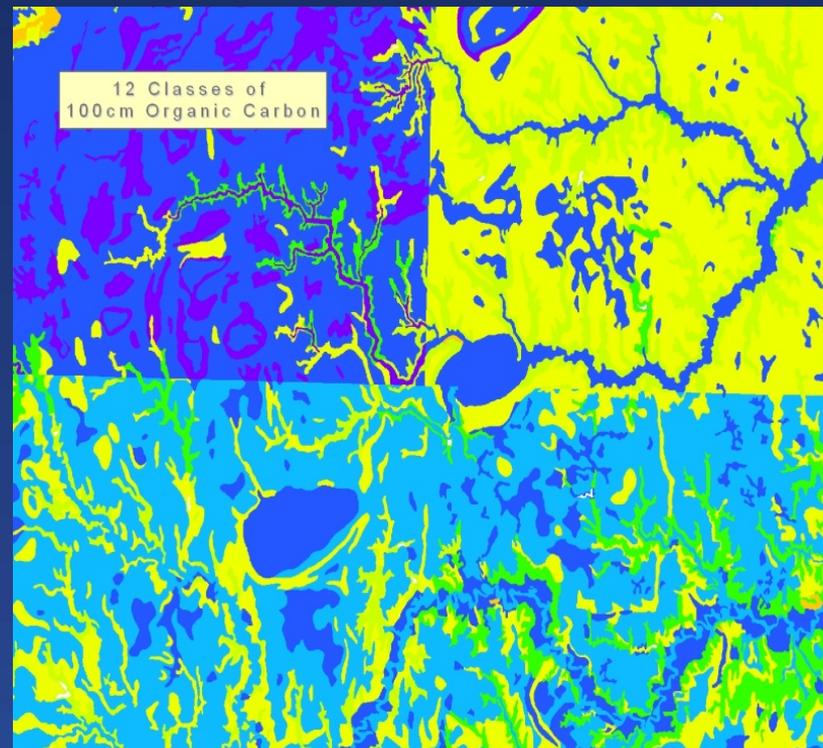


- Improve and Complete soil properties database
- Reduces the number of DMU's for same and similarly named soil map units
- Identify priority update needs

Basic Objectives - SDJR

- Dissolve the perceived interpretations discrepancies visible in geospatial presentation of soil survey information

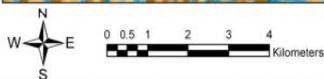
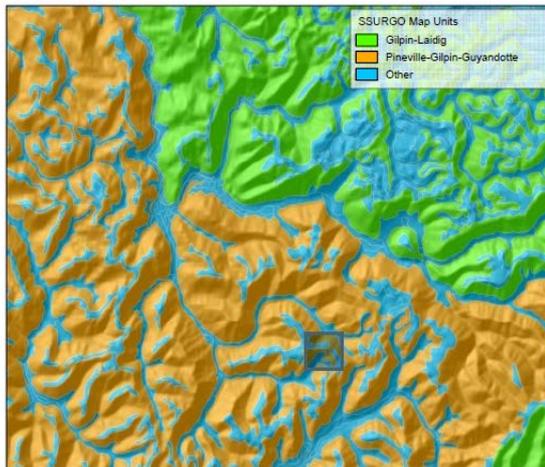
Often resulting from minor variation in data population, horizon depths, composition, and vintage of guidance documents



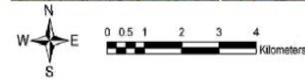
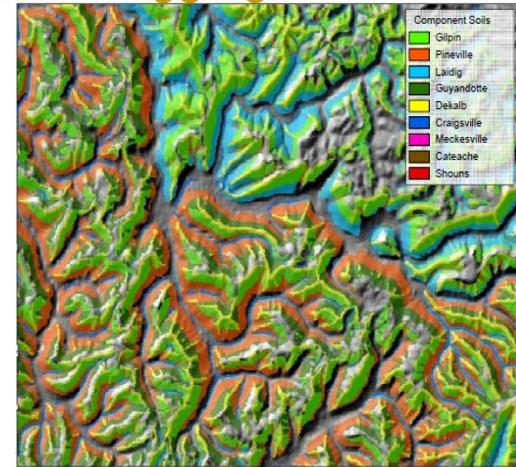
Basic Objectives - SDJR

- Builds the foundation for next generation of soil survey
- – disaggregation

Map Units—SSURGO



Spatial Disaggregation



National Instruction

NRCS Share Point Sites > NRCS Soil Science & Resource Assessment Deputy Area > NSSC > Data Join Recorrelation > Shared Documents

Data Join Recorrelation > Shared Documents

Share a document with the team by adding a new document.

New | Upload | Actions

Type	Name
Folder	Advisory Team Documents
Folder	SDJR Training Materials
Folder	SDJR-TT Comprehensive
Folder	Subcommittee Folders
Document	harmonization _white_paper
Document	SDJR Harmonizing White Paper-Cooperator Version

View All Site Content

Documents

- Shared Documents

Lists

- Calendar
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Discussions

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Sites

People and Groups

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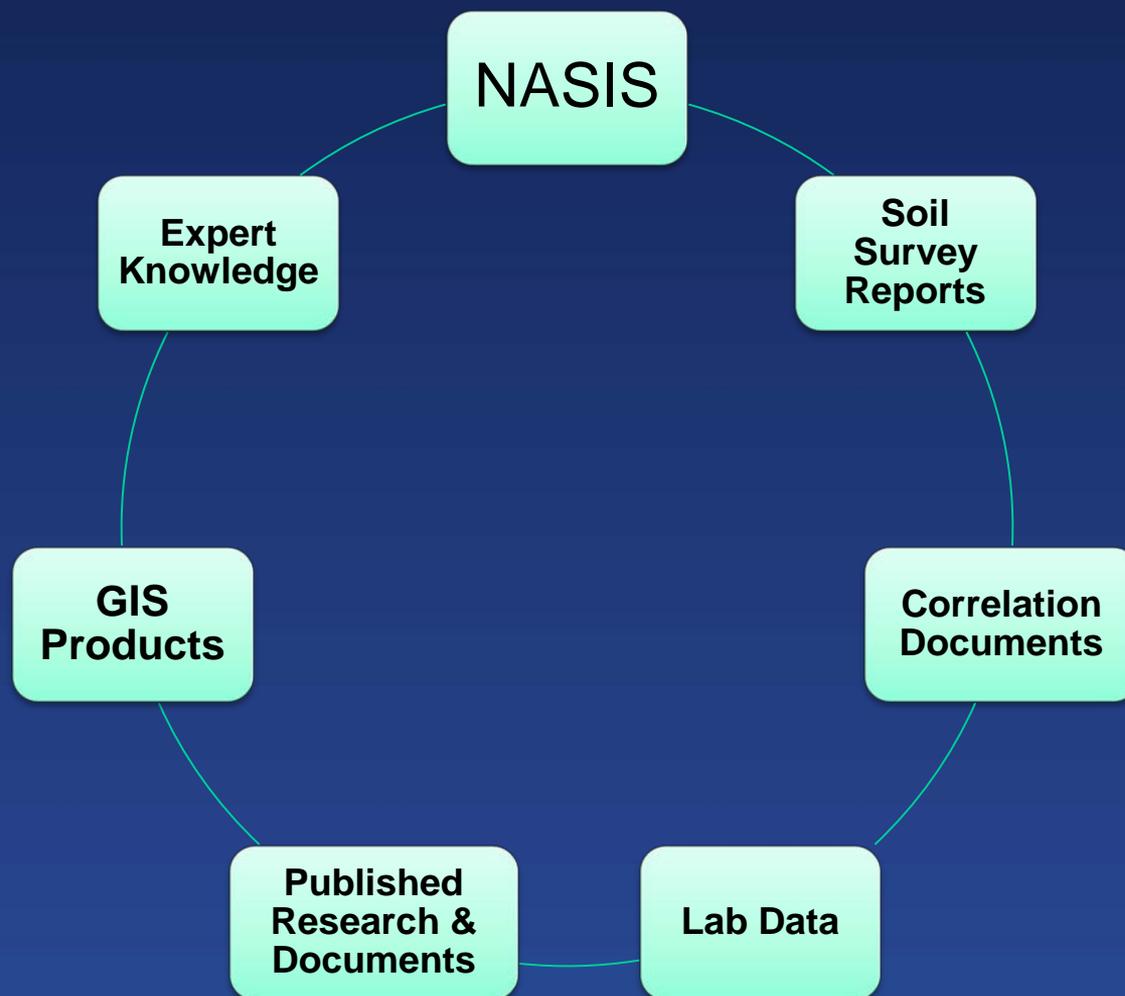
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(430-305, May 2012)

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National Instruction Highlights

- Conducted through a review of existing data:
- Map Unit Concept and Composition



National Instruction Highlights

- Focus on Same and Similarly named map units

Prioritize with Initial List of MU's

Consider Benchmark Soils

Consider Priority Landscapes

- Integrating Uniquely Named Map Units
 - SRSS/SDQS additional ideas to utilize SDJR approach

National Instruction Highlights

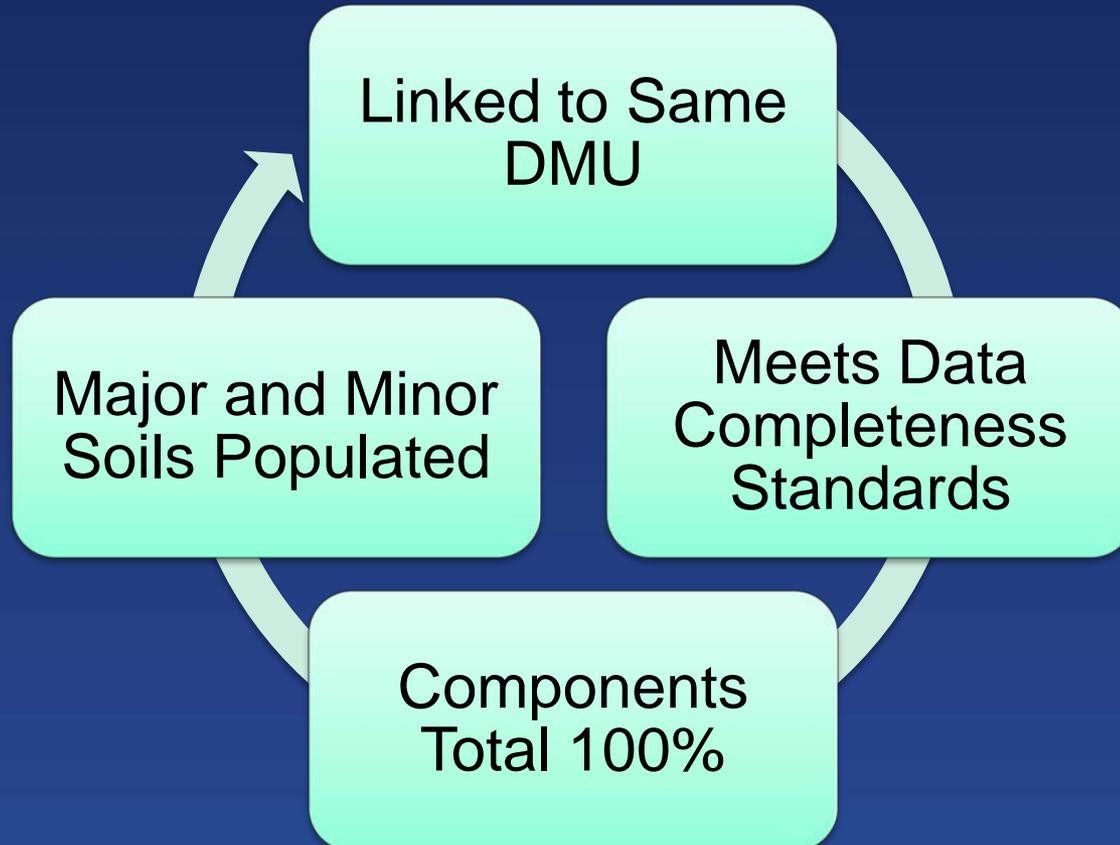
- Creating SDJR Projects in NASIS - Roadmap

SDJR Project Milestones

- Create spatial distribution maps
- Compile historical data
- Populate correlated map units into SDJR project
- Enter pedons in NASIS
- Review historical MU/DMUs
- Create and populate the new MLRA MU/DMU
- Document the MLRA MU/DMU
- Identify/propose future field projects
- Update OSD and lab characterization data
- Quality control completed
- Quality assurance completed
- Correlation activities completed
- SSURGO certification

National Instruction Highlights

- Harmonized Soil Data is:



National Instruction Highlights

- Lab data reviewed

National Cooperative Soil Survey
Soil Characterization Data

- The pedons will be reviewed and updated
- Updating the correlated name and correlated classification for sampled pedons

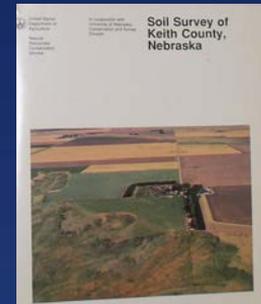
- OSD reviewed and updated;

Official Soil Series Descriptions
USDA-NRCS Soil Survey Division *View by Name*

- Classification updated to current taxonomy if necessary
- Other updates to the OSD will follow the standard operating procedures for the MLRA regional office

National Instruction Highlights

- Legacy Data Populated and Archived
 - Published manuscript TUD's
 - Pedon data
- ESD's
 - Component productivity
 - Component ecological site
 - Work with ecological site inventory specialist and local rangeland management specialist
- Map unit certified by QA process through MO



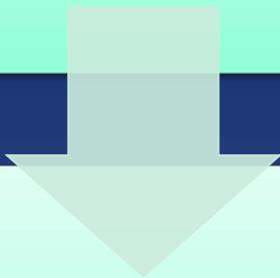
National Instruction Highlights

- Identification of project needs that require future field work and analysis
 - Document in NASIS as a proposed project
 - Brief description
 - Estimated extent
 - Areas not joining spatially across political boundaries are identified as future projects and documented
 - Capture ESD inventory and development needs

FY 2012 – SDJR

3rd Quarter

- Training to MLRA SSO's by MO (Technical Team)



4th Quarter

- Develop and work on a project
- Test National Instruction
- Develop future SDJR projects
- Other Priorities (Initial; Agreements; projects)

FY 13 and Beyond

Fully engaged in SDJR

Priorities and goals developed

- SSD – MO's
- MLRA Advisory and Management Teams
- ***Soil Survey Cooperators input (NCSS)***

Complete Initial surveys before
full implementation.

Support from the MO
(Technical Team)

Summary

SDJR Process

**Improve/enhance/populate
database**

**Reconcile DMU's for same and
similarly named map units**

Identify future project needs

**Build foundation for next
generation**

Soil Standards - update

- Field Guide to Describing Soils
 - V 3.0
 - Published by end of FY12
- Keys to Soil Taxonomy
 - 12 edition in FY13
- NSSH
 - Update due to regionalization/reorg
- E-reader publications
- Staff Changes
 - Retired: Stan, Pattie, Marc Crouch
 - National Training Coordinator – Shawn McVey

Soil Standards - update

- Soil Survey Manual
 - CESU agreement with USU
 - Remote sensing
 - Digital soil survey
 - Subaqueous soils
 - Anthropogenic soils
 - other.
- Scanning older published soil surveys
 - Little brown books
 - Traditional