

# NASIS 6.0 Update

St. Soil Scientist Meeting

March 18, 2008

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# NASIS 6.0

➤ It is going to happen!



# Features

- Converts current capabilities of NASIS to .NET and SQL Server Express
  - Microsoft based
  - New interface
  - Similarities to Access

# Features

- Will be a client based application
  - SQL Server Express on local computer
  - Connected via network to central server
  - Selected set will download data to your computer
  - Uses replication processes to keep you in sync with central server
  - Conflict resolution
  - Can disconnect your computer from network to edit data

# Features

- Report, query and interp editors are different
  - Will work like SDM Report Manager
  - Interp editor will auto load sub-rules, evaluations and property scripts
  - I can demo during evening session
- Existing reports, queries, rules, evaluations, and properties will be converted

# Data Model Changes

- None that affect SDM/SSURGO data model
  - Revised Soil Survey Schedule schema (details in Thursday's presentation)
    - Includes Technical Soil Services
  - Subaqueous soil proposals
  - Mica proposal
  - More anthropogenic choices
  - Gypsum choices
  - Data certification proposal
  - Several minor additions/changes

# Data Model Changes

- SSURGO changing edits will be made after 6.0 is released
  - These impact other applications such as SDM, WSS, Access template, and SDV rules.

# Pedon data import

- The process will change
  - Currently pedon.mdb file from Windows Pedon, Pedon CE or Pedon PC is sent to Hotline staff for import to NASIS
  - In 6.0, the pedon.mdb file will be converted into SQL Server Express format on your local computer, then saved to NASIS
- May need to get all existing data uploaded to NASIS prior to 6.0 deployment ?

# Training

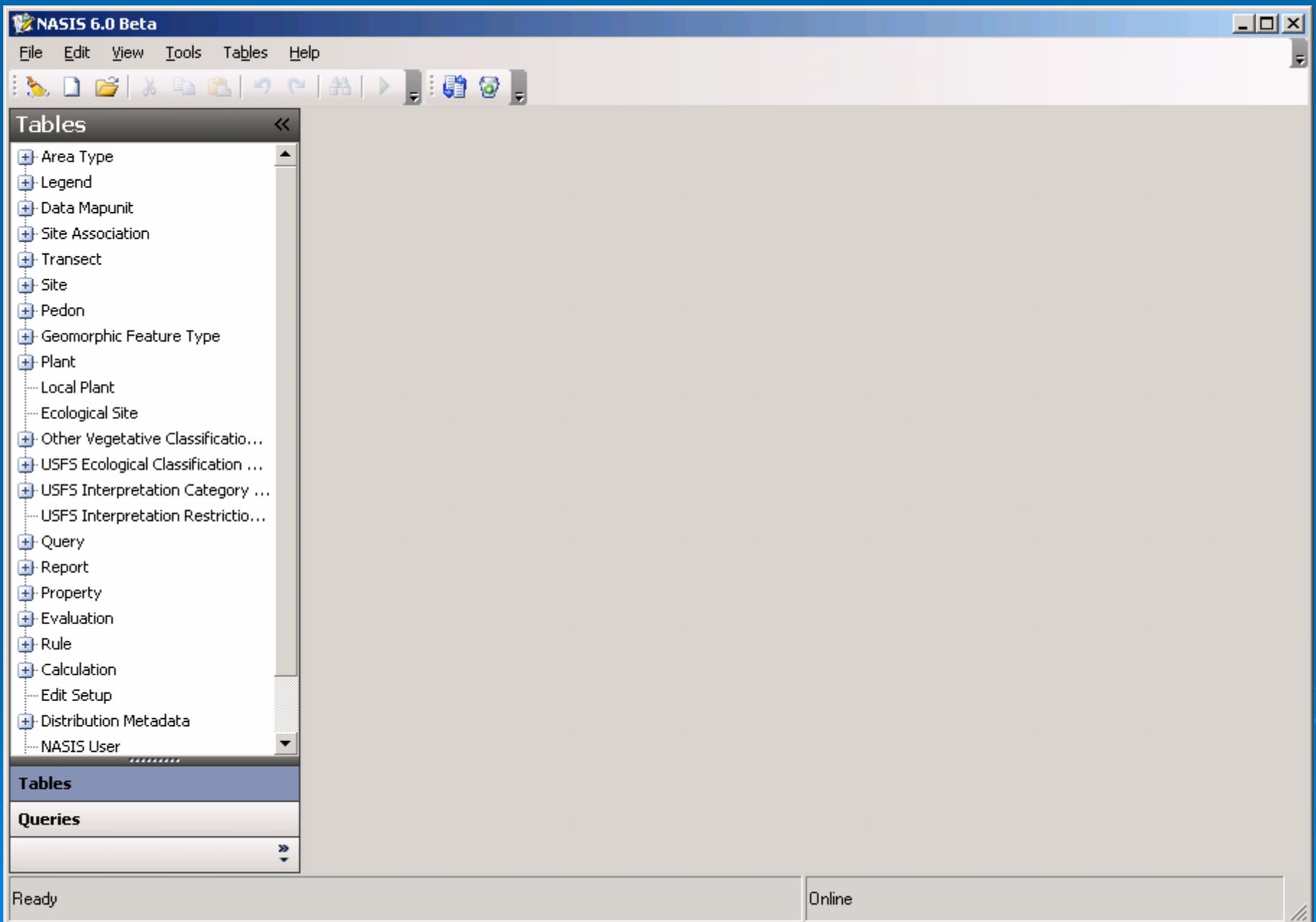
- Some training will be needed
  - New user interface
  - Paul Finnell plans to update existing training modules he uses
  - Plan to use Live Meeting or Net Meeting sessions as much as possible
  - Record sessions for later playback

# Getting Ready

- SQL Server Express will need to be loaded on all computers.
- Some data clean-up
  - Choice list implemented for meridians
  - Names listed in Legend Staff table to be converted to NASIS User names – need to match.
- Guidance will be distributed

# Timeline

- Early testing has begun
  - We will be asking some state office folks to assist and give feedback
- Beta testing – August 2008
- Final testing – September 2008
- Release – October 2008



NASIS 6.0 Beta

File Edit View Tools Tables Help

Tables <<

- + Area Type
- + Legend
- + Data Mapunit
- + Site Association
- + Transect
- + Site
- + Pedon
- + Geomorphic Feature Type
- + Plant
  - Local Plant
  - Ecological Site
- + Other Vegetative Classificatio...
- + USFS Ecological Classification ...
- + USFS Interpretation Category ...
  - USFS Interpretation Restrictio...
- + Query
- + Report
- + Property
- + Evaluation
- + Rule
- + Calculation
  - Edit Setup
- + Distribution Metadata
  - NASIS User

Tables

Queries

Ready Online



Queries

- NSSC Pangaea
  - Area by area type name and area sy...
  - Area/Legend/DMU by area and 2 com...
  - Area/Legend/DMU by area and comp...
  - Area/Legend/DMU by area and legen...
  - Area/Legend/DMU by area and legen...
  - Area/Legend/DMU by Component Per...
  - Area/Legend/DMU by legend and hyd...
  - Area/Mapunit/DMU by area overlap
  - Areas linked to legends
  - Areas linked to two or more legends
  - Component by MLRA and % composition
  - Components by Ecological Site ID
  - Components by taxonomic great group
  - Distribution Metadata by area symbol
  - DMU by component % and data mapu...
  - DMU by component name
  - DMU by component name and crop
  - DMU by data mapunit description
  - DMU by depth to soil moisture
  - DMU by flooding frequency
  - DMU by restrictive features
  - DMU is not linked to mapunits

Tables

Queries



Queries

- NSSC Pangaea
  - Area by area type name and area sy...
  - Area/Legend/DMU by area and 2 com...
  - Area/Legend/DMU by area and comp...
  - Area/Legend/DMU by area and legen...
  - Area/Legend/DMU by area and legen...
  - Area/Legend/DMU by Component Per...
  - Area/Legend/DMU by legend and hyd...
  - Area/Mapunit/DMU by area overlap
  - Areas linked to legends
  - Areas linked to two or more legends
  - Component by MLRA and % composition
  - Components by Ecological Site ID
  - Components by taxonomic great group
  - Distribution Metadata by area symbol
  - DMU by component % and data mapu...
  - DMU by component name
  - DMU by component name and crop
  - DMU by data mapunit description
  - DMU by depth to soil moisture
  - DMU by flooding frequency
  - DMU by restrictive features
  - DMU is not linked to mapunits

Tables

Queries

Area by area type name and area symbol

General Query Text

```
FROM area, area_type
WHERE area_type.area_type_name IMATCHES ? AND
area.area_symbol IMATCHES ? AND
JOIN area TO area_type
```

Area by area type name and area symbol - NASIS 6.0 Beta

File Edit View Tools Help

Queries

- NSSC Pangaea
  - Area by area type name and area sy...
  - Area/Legend/DMU by area and 2 com...
  - Area/Legend/DMU by area and comp...
  - Area/Legend/DMU by area and legen...
  - Area/Legend/DMU by area and legen...
  - Area/Legend/DMU by Component Per...
  - Area/Legend/DMU by legend and hyd...
  - Area/Map
  - Areas link
  - Areas link
  - Compone
  - Compone
  - Compone
  - Distribut
  - DMU by component name
  - DMU by component name and crop
  - DMU by data mapunit description
  - DMU by depth to soil moisture
  - DMU by flooding frequency
  - DMU by restrictive features
  - DMU is not linked to mapunits

Area by area type name and area symbol

General Query Text

```
FROM area, area_type
WHERE area_type.area_type_name IMATCHES ? AND
area.area_symbol IMATCHES ? AND
JOIN area TO area_type
```

Parameters Area by area type name and area symbol

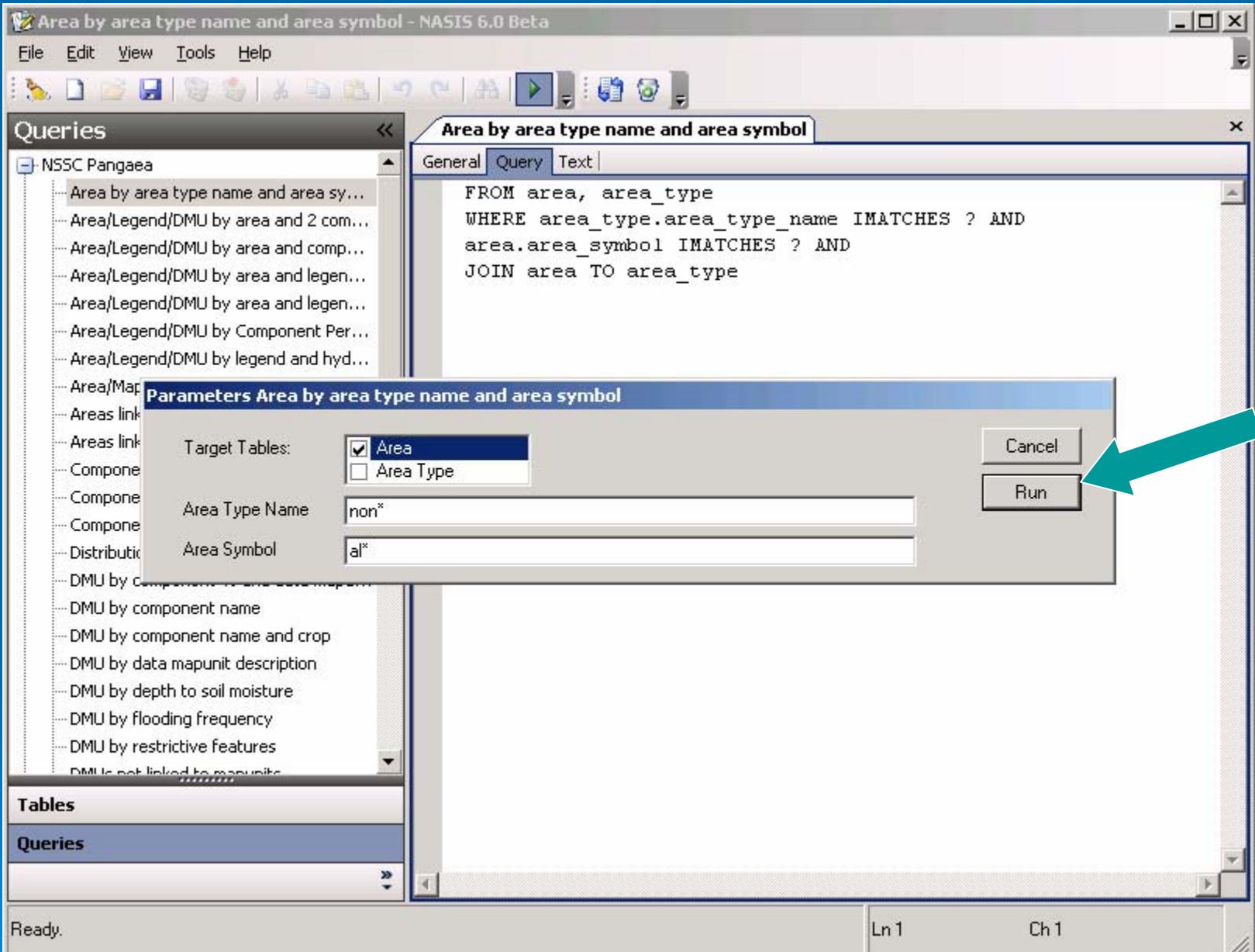
Target Tables:  Area  Area Type

Area Type Name: non\*

Area Symbol: al\*

Cancel Run

Ready. Ln 1 Ch 1



Messages



Preparing query "Area by area type name and area symbol"...

Running query for target table "Area"...

complete.

Adding results to selected set...

complete.

Done!

Results for target table "Area":

69 records selected by query.

69 records added to selected set.

0 related records added to selected set.



### Query Results



Your query has completed successfully.

69 records were selected for table Area.

Would you like to add these to your selected set?

Yes

No

Messages

Prepari

Running query for target table "Area"...  
complete.

bol"...

**Tables**

- [-] Area Type
  - [+] Area
- [+] Legend
- [+] Data Mapunit
- [+] Site Association
- [+] Transect
- [+] Site
- [+] Pedon
- [+] Geomorphic Feature Type
- [+] Plant
  - Local Plant
  - Ecological Site
- [+] Other Vegetative Classification Type
- [+] USFS Ecological Classification Type (test)
- [+] USFS Interpretation Category (test)
- USFS Interpretation Restriction (test)
- [+] Query
- [+] Report
- [+] Property
- [+] Evaluation
- [+] Rule
- [+] Calculation
  - Edit Setup

---

**Tables**

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**Queries**

		Seq	Area Symbol	Area Name	Area Acres
* Click here to add a new row					
<input type="checkbox"/>	<input type="checkbox"/>		AL001	Autauga County, Alabama	386300
<input type="checkbox"/>	<input type="checkbox"/>		AL003	Baldwin County, Alabama	1075510
<input type="checkbox"/>	<input type="checkbox"/>		AL005	Barbour County, Alabama	578540
<input type="checkbox"/>	<input type="checkbox"/>		AL007	Bibb County, Alabama	399980
<input type="checkbox"/>	<input type="checkbox"/>		AL009	Blount County, Alabama	414930
<input type="checkbox"/>	<input type="checkbox"/>		AL011	Bullock County, Alabama	401060
<input type="checkbox"/>	<input type="checkbox"/>		AL013	Butler County, Alabama	498650
<input type="checkbox"/>	<input type="checkbox"/>		AL015	Calhoun County, Alabama	392100
<input type="checkbox"/>	<input type="checkbox"/>		AL017	Chambers County, Alabama	386020
<input type="checkbox"/>	<input type="checkbox"/>		AL019	Cherokee County, Alabama	384150
<input type="checkbox"/>	<input type="checkbox"/>		AL021	Chilton County, Alabama	448130
<input type="checkbox"/>	<input type="checkbox"/>		AL023	Choctaw County, Alabama	589470
<input type="checkbox"/>	<input type="checkbox"/>		AL025	Clarke County, Alabama	801470
<input type="checkbox"/>	<input type="checkbox"/>		AL027	Clay County, Alabama	387500
<input type="checkbox"/>	<input type="checkbox"/>		AL029	Cleburne County, Alabama	359010
<input type="checkbox"/>	<input type="checkbox"/>		AL031	Coffee County, Alabama	435350
<input type="checkbox"/>	<input type="checkbox"/>		AL033	Colbert County, Alabama	399170
<input type="checkbox"/>	<input type="checkbox"/>		AL035	Conecuh County, Alabama	546680
<input type="checkbox"/>	<input type="checkbox"/>		AL037	Coosa County, Alabama	426480

# Beyond 6.0

- Import USFS data from Terra
- Form-based data entry
- SSURGO-changing data model changes
- Spatial data integration
- Content management
- Dynamic soil properties
- Integrated resource inventory system
- ??????