

NASIS and Web Soil Survey – New Developments

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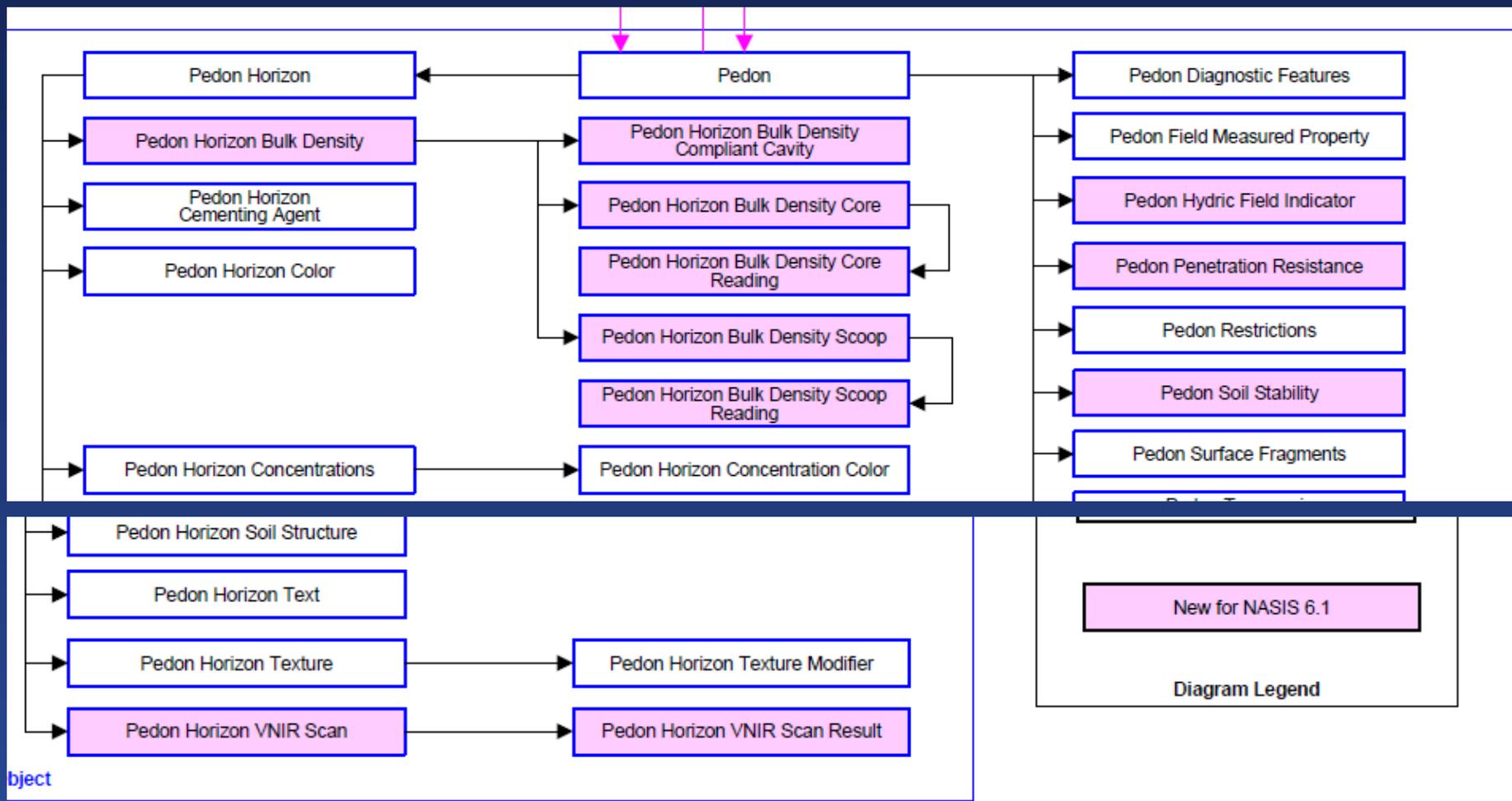
NASIS 6.1 Release

- NASIS 6.1 came online – April 12
- Minor release 6.1.1 scheduled for ???
 - Address importing data from Rapid Carbon Assessment project forms

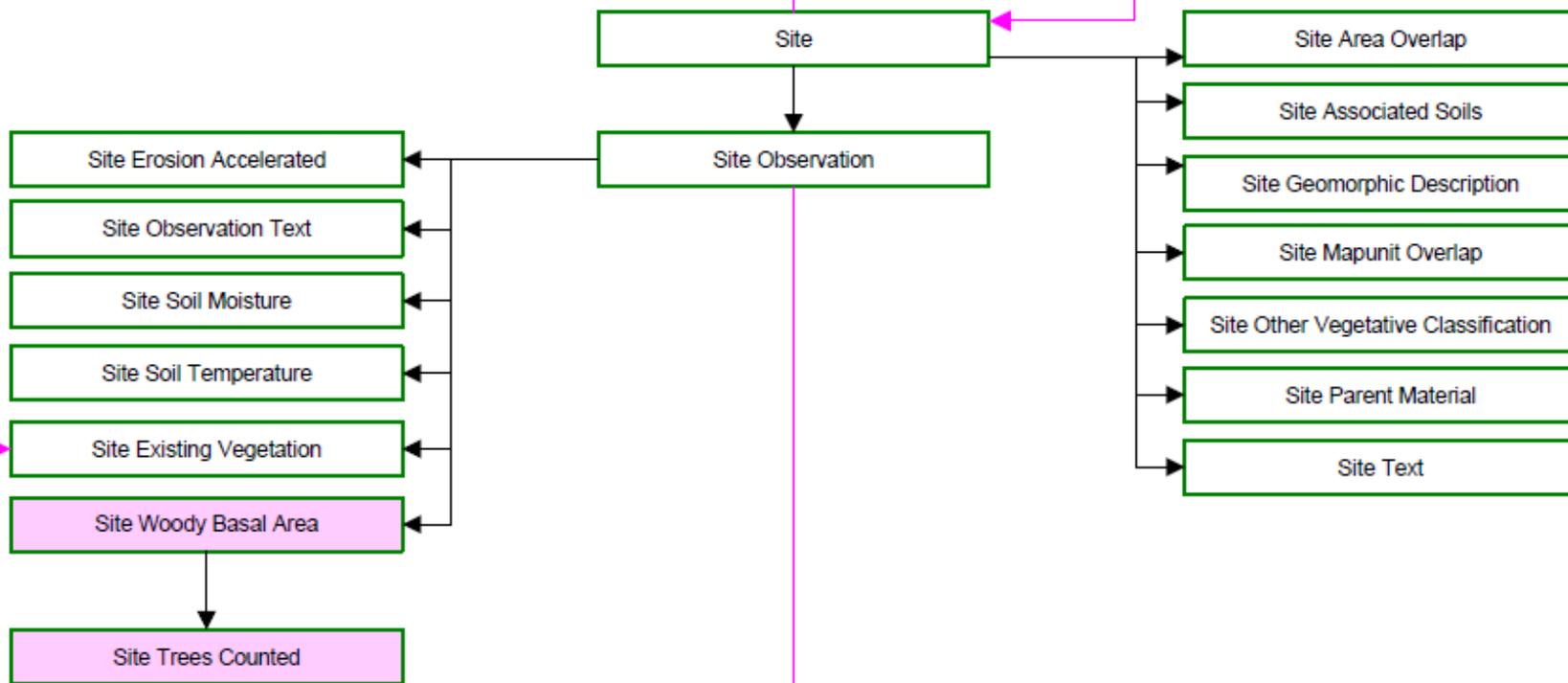
NASIS 6.1 Features

- Improved editing performance
- ~ 50 bugs from version 6.0 fixed
- Data tables and columns for RaCA & DSP data
- Excel workbook imports
- VNIR scan file imports
- Run national reports in background
- View reports, queries, etc. in grid
- New drop down selection of child tables
- Run multiple validations or calculations at once

RaCA & DSP data

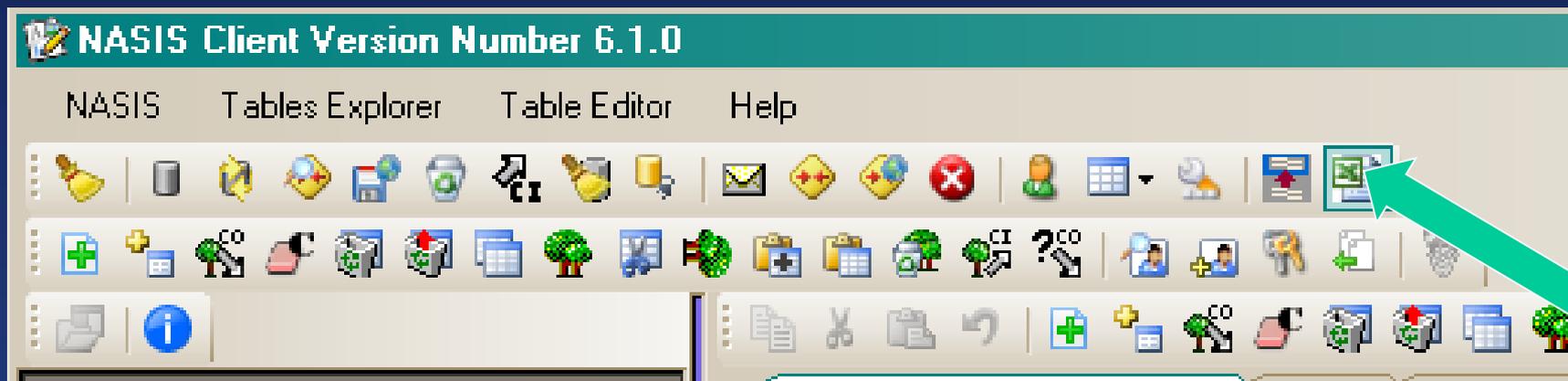


RaCA & DSP data



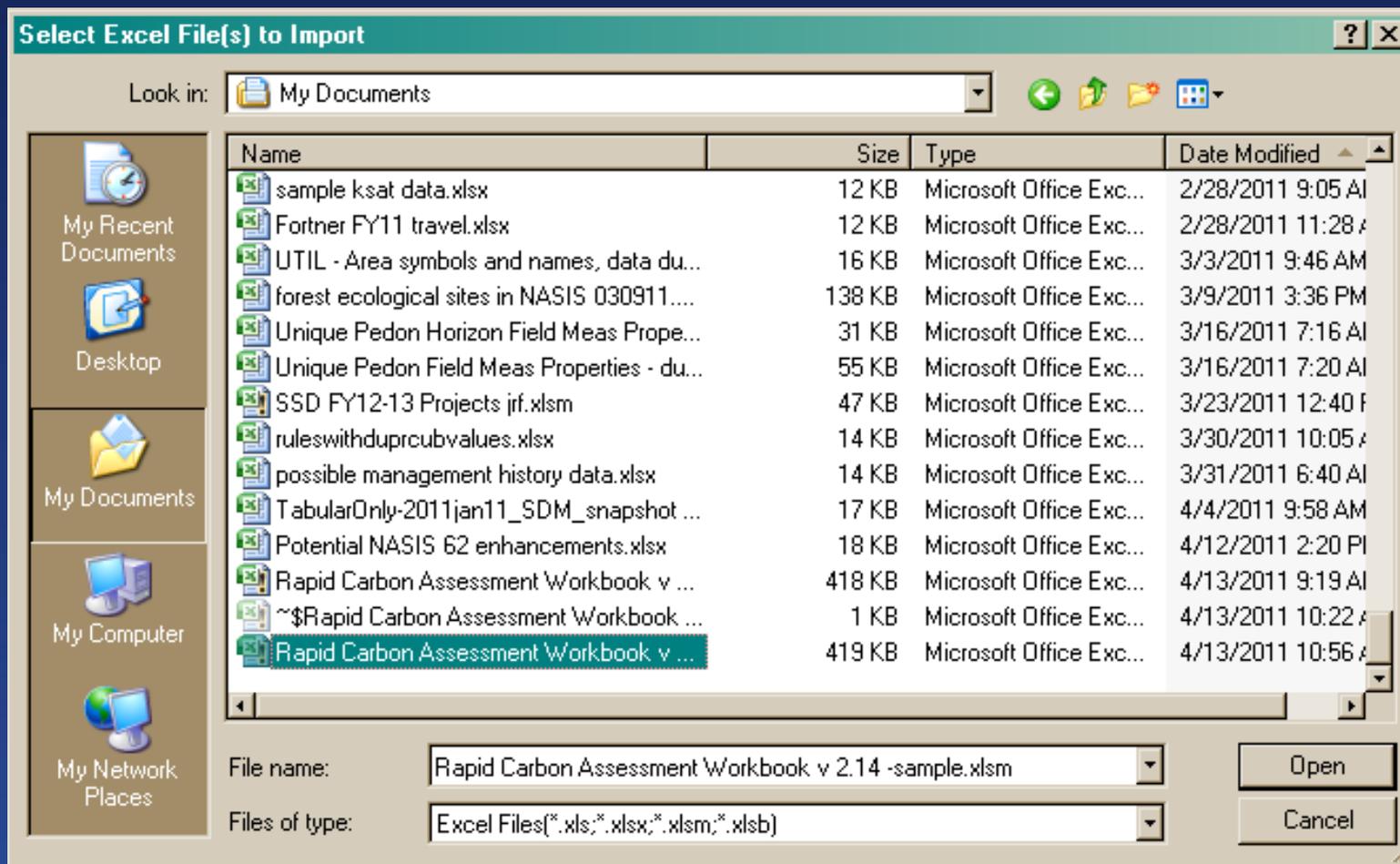
Site Object

Workbook Import



- Currently have these for RaCA versions 2.07 thru 2.15
- DSP workbook being developed

Workbook Import



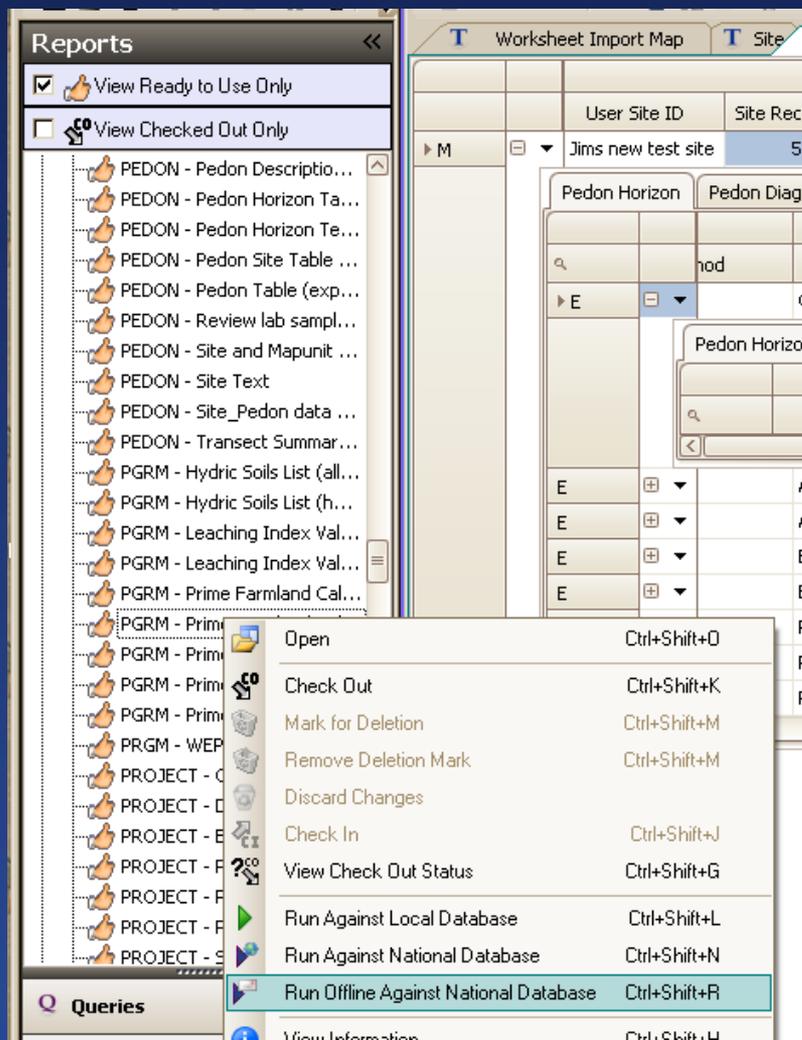
RaCA import rules (& DSP)

- For RaCA & DSP, the import process APPENDS to existing Site and Pedon records.
- Multiple workbooks can be imported at once.
- Key columns must match

VNIR Scan file import

- VNIR scan filename **MUST** match that recorded on the spreadsheet
- If file(s) are stored in same directory as the spreadsheet, they are automatically imported with the spreadsheet file

Run National Reports Offline



- Avoids 10 minute timeout limit
- Could still hit memory limit

Drop-down table selection

Worksheet Import Map | T Site | T **Pedon** | T Report

Site/Site Observation

User Site ID	Site Rec ID	Observation Date	Observation Date Ki
Jims new test site	5	04/13/2011	actual site observation

Pedon Horizon | Pedon Diagnostic Features | Pedon Field Measured Properties

Designation	Disc	Master
Oe	M	

Dropdown menu items:

- Pedon Horizon Texture
- Pedon Horizon Bulk Density**
- Pedon Horizon Cementing Agent
- Pedon Horizon Color
- Pedon Horizon Concentrations
- Pedon Horizon Cracks
- Pedon Horizon Designation Suffix
- Pedon Horizon Features
- Pedon Horizon Field Measured Property
- Pedon Horizon Fragments
- Pedon Horizon Human Artifacts
- Pedon Horizon Mottles
- Pedon Horizon Ped Void Surface Features
- Pedon Horizon Pores
- Pedon Horizon Redoximorphic Features
- Pedon Horizon Roots
- Pedon Horizon Sample
- Pedon Horizon Soil Structure
- Pedon Horizon Text
- Pedon Horizon VNIR Scan

Pedon Horizon Bulk Density | Pedon Horizon Cementing Agent | Pedon Horizon

Seq	Depth to Top	Depth to Bottom
I N		0

Dropdown menu items:

- Pedon Horizon Bulk Density Core
- Pedon Horizon Bulk Density Compliant Cavity**
- Pedon Horizon Bulk Density Scoop

B w/o	M	
B	M	
R1	M	R
R2	M	R

Run Multiple Validations of Calculations at once

The screenshot shows a software interface with two main panels. The left panel, titled "Calculations/Validations", contains a tree view with a "Component" folder expanded to show several items, each with a thumbs-up icon. The right panel shows a data table with columns for "Lineage", "DMU Description", "DMU Rec ID", "Seq", and "Low".

Lineage					
		DMU Description ▲	DMU Rec ID ▲	Seq ▲	Low
▶	+	DSM395(AZ159)	413390		
	+	DSM395(AZ159)	413390		

Run on Highlighted or All Rows

NASIS Client Version Number 6.1.0

Calculations/Validations Explorer | Table Editor | Help

- Explore
- Add New Calculation
- Add New Validation
- Open (Ctrl+Shift+O)
- Check Out (Ctrl+Shift+K)
- Mark for Deletion (Ctrl+Shift+M)
- Remove Deletion Mark (Ctrl+Shift+M)
- Discard Changes
- Check In (Ctrl+Shift+J)
- View Check Out Status (Ctrl+Shift+G)
- Run for Highlighted Rows (Ctrl+Shift+B)
- Run for All Rows in Selected Set (Ctrl+Shift+S)**
- View Information (Ctrl+Shift+H)

Lineage			
	DMU Description	DMU Rec ID	Seq
+ ▼	DSM395(AZ159)	413390	
+ ▼	DSM395(AZ159)	413390	

Component Parent Material
Component Range and Understory Production...
Component Restriction
Component Surface Fragments

Future – NASIS 6.1.1

- There will need to be a minor 6.1.1 NASIS release to fix a few critical bugs in the spreadsheet import process
- Late June maybe

Future – NASIS 6.2

- Point data model changes - SSO lab data & numerous other proposals
 - Some existing data will move from one table to another
- Update Pedon PC and data import process to agree with NASIS 6.2 structure
- Move mustatus and farmland class columns from Mapunit to Legend Mapunit

Future – NASIS 6.2 – cont'd

- Add mapunit history and text tables to Legend Mapunit
- Customizable choice lists

Future – NASIS 6.2 – cont'd

- Consider changing way data is downloaded from national to local database
- Local db management options
- Store images and document files somewhere – may not be in NASIS itself
- Adjustable font sizes
- Ongoing bug fixes

Web Soil Survey

- Will be showing color NAIP background for ALL states soon – starting with PA.

Web Soil Survey 2.3 Status

- Currently in QA testing
- Release date – targeted for June 14
- Validating against IE 6-9, Windows XP & 7, and Firefox 4.

WSS 2.3 New Features

- Import/export AOI boundary file
- Bookmark the AOI
- Imbed location and/or AOI coordinates in URL
- Quick navigation in US territories
- New Lat/Long entry options

Export AOI boundary file

Export AOI

Web Soil Survey now allows you to save your AOI as a zipped shapefile.

- Create an AOI using one of the AOI map tools.
- Underneath the **AOI Properties** pane, click **Export AOI**.
- Click **Export AOI as Zipped Shapefile**.
- Enter a value for *Base filename*.
- Click the **Export AOI** button.
- Your zipped shapefile will be made available as a link, which you can download.

Export AOI boundary file

The screenshot shows the 'Area of Interest (AOI)' interface. The 'Export AOI' section is active, with 'Export AOI as Zipped Shapefile' selected. The 'Base filename' field contains 'Frimby_Ranch_Property'. An 'Export AOI' button is visible. An information popup window titled 'Export AOI' is open, displaying the message: 'Your exported AOI' followed by 'Download your exported AOI from: [Frimby_Ranch_Property.zip](#)'. Below this, it says 'This file is a zipped shapefile.' and a 'Close' button is at the bottom right.

Import AOI Boundary file

- Can be from
 - file previously exported from WSS
 - File created using ArcGIS or other software
- Shapefile format
 - .shp and .prj files needed
- <10,000 acres; < 90 points; <100 Mb

Import AOI Boundary file

Import AOI

Web Soil Survey now allows you to create an AOI from a saved shapefile or zipped shapefile. To create an AOI from a zipped shapefile (for example, from an AOI that you have already exported):

- In the **Area of Interest** panel, click **Import AOI**.
- Click **Create AOI from Zipped Shapefile**.
- Press the **Browse...** or **Choose File** button.
- In the **File Upload** dialog, select a zipped shapefile, such as one you exported in an earlier Web Soil Survey session, and press **Open** or **Choose**.
- Click the **Set AOI** button.
- Web Soil Survey will create an AOI from your zipped shapefile.

Import AOI Boundary file

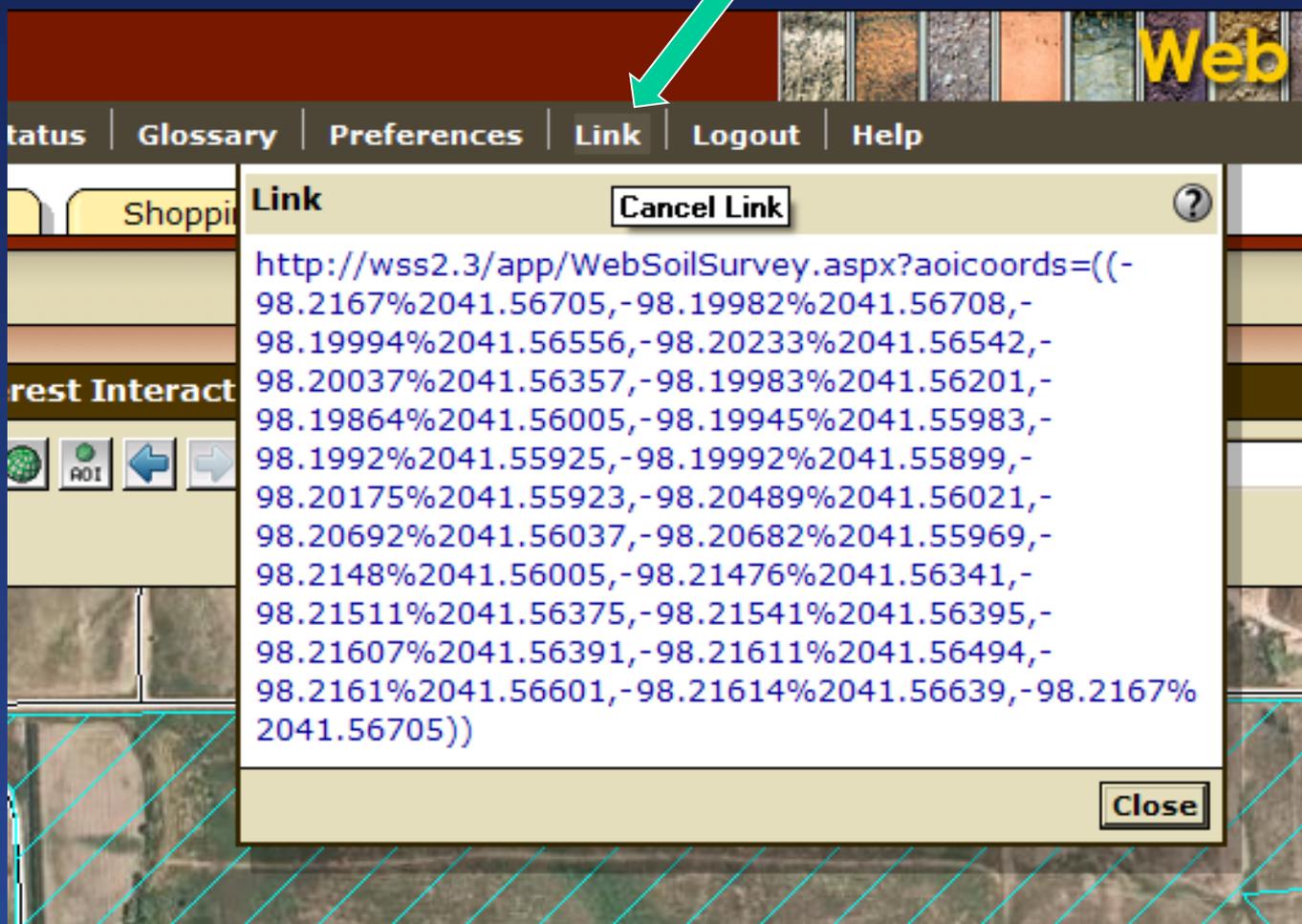
The screenshot displays the 'Area of Interest Interactive Map' web application. On the left, the 'Import AOI' section is active, showing options to 'Create AOI from Shapefile' and 'Create AOI from Zipped Shapefile'. Below these options is a text input field for a '.zip file' with a 'Browse...' button and a 'Set AOI' button. A 'Choose file' dialog box is overlaid on the map, showing the file 'Frimby_Ranch_Property.zip' selected in the 'Frimby' folder. The dialog includes fields for 'File name' and 'Files of type', and 'Open' and 'Cancel' buttons. The background map shows the contiguous United States with state boundaries and labels (WA, OR, ID, MT, ND, MN, WI, SD, WY, NE, IA, IL, CO, KS, MO, NM, OK, AR, MS, TX, LA). The map interface includes a toolbar with navigation tools, a 'View Extent' dropdown set to 'Contiguous U.S.', and a 'Scale' of 1:45,000.

Import AOI Boundary file

To create an AOI from an unzipped shapefile instead:

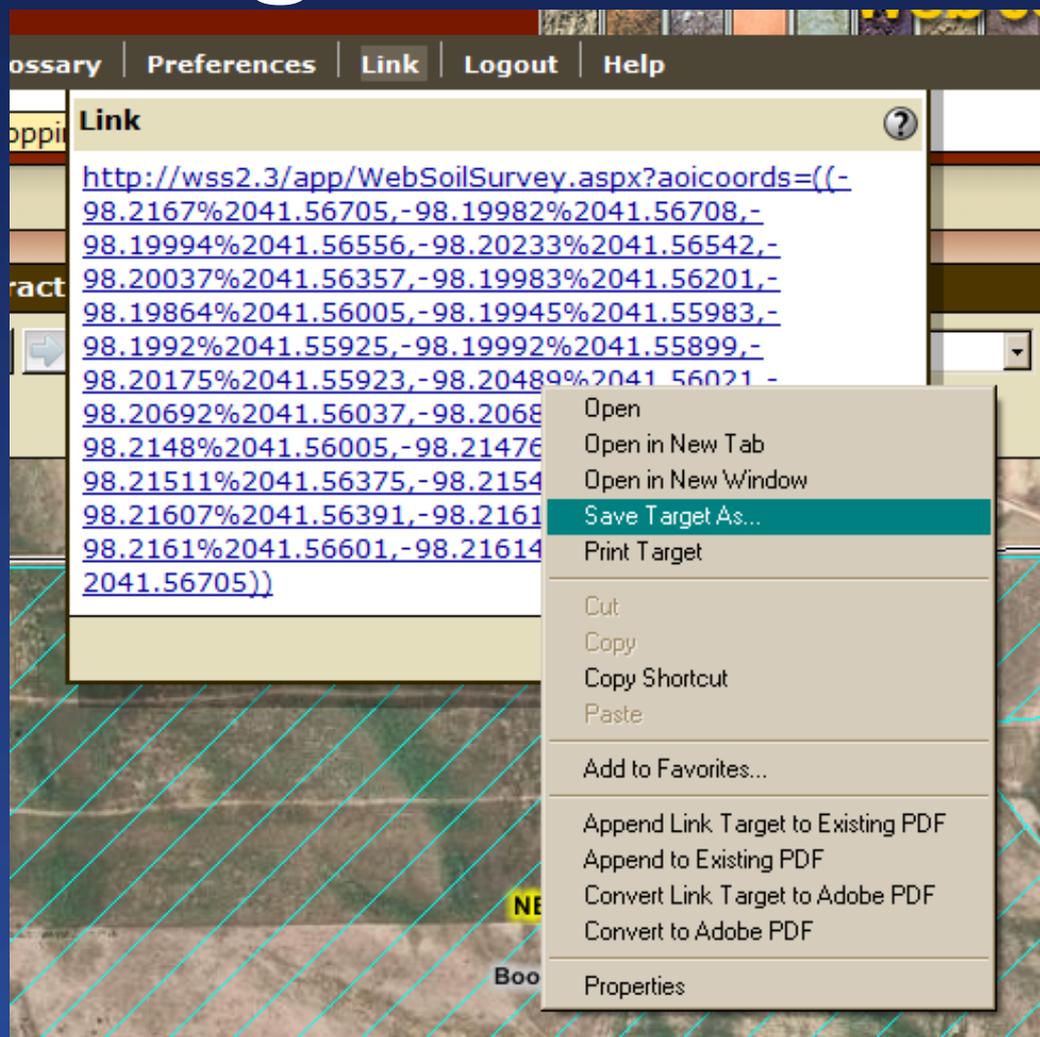
- Click **Create AOI from Shapefile**.
- For the `.shp` file, press the **Browse...** or **Choose File** button.
- In the **File Upload** dialog, select the `.shp` component from a shapefile, and press **Open** or **Choose**.
- Next, for the `.prj` file, press the **Browse...** or **Choose File** button.
- In the **File Upload** dialog, select the `.prj` component from the same shapefile, and press **Open** or **Choose**.
- Click the **Set AOI** button.
- Web Soil Survey will create an AOI from your shapefile.

Bookmark Your AOI



The screenshot shows the USDA NRCS Web Soil Survey interface. A green arrow points to the 'Link' button in the top navigation bar. A dialog box titled 'Link' is open, displaying a long URL for an Area of Interest (AOI). The URL is: `http://wss2.3/app/WebSoilSurvey.aspx?aoicoords=((-98.2167%2041.56705,-98.19982%2041.56708,-98.19994%2041.56556,-98.20233%2041.56542,-98.20037%2041.56357,-98.19983%2041.56201,-98.19864%2041.56005,-98.19945%2041.55983,-98.1992%2041.55925,-98.19992%2041.55899,-98.20175%2041.55923,-98.20489%2041.56021,-98.20692%2041.56037,-98.20682%2041.55969,-98.2148%2041.56005,-98.21476%2041.56341,-98.21511%2041.56375,-98.21541%2041.56395,-98.21607%2041.56391,-98.21611%2041.56494,-98.2161%2041.56601,-98.21614%2041.56639,-98.2167%2041.56705))`. The dialog box has a 'Cancel Link' button at the top and a 'Close' button at the bottom. The background shows a map with a red AOI boundary and a 'Web Soil Survey' logo.

Save Target As ...



US Territory Addresses

Spatial Data	Oklahoma	
Tabular Data	Oregon	
	Palau	
	Pennsylvania	AOI
Import AOI	Puerto Rico	▼
Export AOI	Rhode Island	▼
	South Carolina	
	South Dakota	
Quick Navigation	Tennessee	▲
Address	Texas	
	Utah	
	Vermont	
	Virgin Islands of the U.S.	?
Address	Virginia	
	Washington	
City	West Virginia	
	Wisconsin	
	Wyoming	▼
State	Puerto Rico	▼
Zip Code	<input type="text"/>	
Show location marker	<input checked="" type="checkbox"/>	

Lat/Long entry – single field

Latitude and Longitude	
	View 
Latitude, Longitude	<input type="text" value="46.8075,-100.78306"/>
Show location marker	<input checked="" type="checkbox"/>
	View

Lat/Long entry Options

Decimal Degrees

46.8075,-100.78306

46.80750 N 100.78306 W

46.8075~-100.78306

46.8075° -100.78306°

Degrees/Minutes/Decimal Seconds

46° 48' 27" N, 100° 46' 59.016" W

46d 48' 27" N 100d 46' 59.016" W

46°48'27"N,100°46'59.016"W

46:48:27N 100:46:59.016W

Degrees/Decimal Minutes

46° 48.45', -100° 46.9836'

GPS

N 46 48.45 W 100 46.9836

GNIS

464827N 1004659W

WKT

(-100.78305 46.80749)

(-100.78305%2046.80749)

Future – WSS 3.0

- Rebuilding backend operations
 - Moving from ESRI tools to SQL Server tools
- Use Bing imagery
- Increase allowable AOI limit - >100k ?
- Combine functions of SDW application into WSS – reports and downloads
- Update data aggregation engine

Future – WSS 3.0 – cont'd

- Handle line and point map units
- Change SDM to WGS 84 – accommodates PIA data
- Display additional ESD content
- Add in BIA land areas for quick navigation
- Update other Federal boundary layers
- Several minor user enhancements

Questions ???