



Creating a Soil Map for the Proposed Easement & Calculating an Estimated Rental Rate

<https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>

Under the Area of Interest Tab (AOI), users can import a shapefile from ArcGIS to identify the property boundary. This is the most accurate option.

The screenshot displays the USDA Natural Resources Conservation Service website. At the top, the logo for the United States Department of Agriculture and the Natural Resources Conservation Service is visible. Below the logo is a navigation bar with links for Contact Us, Subscribe, Archived Soil Surveys, Soil Survey Status, Glossary, Preferences, Link, Logout, and Help. A secondary navigation bar contains buttons for Area of Interest (AOI), Soil Map, Soil Data Explorer, Download Soils Data, and Shopping Cart (Free). The main content area is titled "Area of Interest Interactive Map" and features a search sidebar on the left and a map on the right. The search sidebar includes sections for "Search", "Area of Interest", "Import AOI", and "Quick Navigation". The "Import AOI" section is highlighted with a red circle and contains two options: "Create AOI from Shapefile" and "Create AOI from Zipped Shapefile". The "Quick Navigation" section lists various search criteria such as Address, State and County, Soil Survey Area, Latitude and Longitude or Current Location, PLSS (Section, Township, Range), Bureau of Land Management, Department of Defense, Forest Service, National Park Service, and Hydrologic Unit. The map on the right shows an aerial view of a facility with several circular structures, a road labeled "State Hwy 4", and a body of water labeled "Sangamon". The map interface includes a legend, a toolbar with various navigation tools, and a "View Extent" dropdown menu set to "Contiguous U.S.".

A second option for identifying the boundary is to navigate to the easement using the pan and zoom tools. Once you have located the area of easement, use the AOI polygon tools to draw the easement boundary. This is usually not as accurate as importing a shapefile.

The screenshot displays the USDA Natural Resources Conservation Service's Area of Interest Interactive Map. The top navigation bar includes links for 'Contact Us', 'Subscribe', 'Archived Soil Surveys', 'Soil Survey Status', 'Glossary', 'Preferences', 'Link', 'Logout', and 'Help'. Below this, a secondary menu features 'Area of Interest (AOI)' (highlighted with a red circle), 'Soil Map', 'Soil Data Explorer', 'Download Soils Data', and 'Shopping Cart (Free)'. On the left side, there is a search and navigation sidebar with sections for 'Search', 'Area of Interest' (containing 'Import AOI' options like 'Create AOI from Shapefile' and 'Create AOI from Zipped Shapefile'), and 'Quick Navigation' (listing various locations like 'Address', 'State and County', 'Soil Survey Area', etc.). The main map area is titled 'Area of Interest Interactive Map' and shows an aerial view of a facility with several circular structures. The map toolbar includes zoom, pan, and AOI drawing tools (highlighted with red circles), a 'View Extent' dropdown set to 'Contiguous U.S.', and a 'Scale' indicator. The map also shows 'State Hwy 4' and a body of water labeled 'Sangamon'.

Using the Soil Map Tab, Export the Map to a PDF File using the “Printable Version” button on the toolbar.

The screenshot displays the USDA Web Soil Survey interface. The top navigation bar includes links for Contact Us, Subscribe, Archived Soil Surveys, Soil Survey Status, Glossary, Preferences, Link, Logout, and Help. The main toolbar features buttons for Area of Interest (AOI), Soil Map, Soil Data Explorer, Download Soils Data, and Shopping Cart (Free). The Soil Map tab is selected, and the Printable Version button is circled in red. A search bar on the left is also circled in red. The main map area shows an aerial view of a field with soil map overlays in orange and green, labeled with soil unit codes 8396A, 3107A, and 7075B. A dialog box titled 'Printable Version Options' is open, showing report options and map options. The 'Printable Version' button in the dialog is also circled in red. The 'View' button at the bottom right of the dialog is circled in red.

USDA United States Department of Agriculture
Natural Resources Conservation Service

Web Soil Survey

Contact Us | Subscribe | Archived Soil Surveys | Soil Survey Status | Glossary | Preferences | Link | Logout | Help

Area of Interest (AOI) | **Soil Map** | Soil Data Explorer | Download Soils Data | Shopping Cart (Free)

Printable Version | Add to Shopping Cart

Search

Map Unit Legend

Sangamon County, Illinois (IL167)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
134C2	Camden silt loam, 5 to 10 percent slopes, eroded	0.3	1.5%
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded	13.1	77.8%
7075B	Drury silt loam, 2 to 5 percent slopes, rarely flooded	1.4	8.4%
7242A	Kendall silt loam, 0 to 2 percent slopes, rarely flooded	1.8	10.5%

Soil Map

Scale (not to scale)

Printable Version Options

Report Options

Title Soil Map; Sangamon County, Illinois

Subtitle (optional)

Area of Interest Name: (none defined)

Custom Subtitle: Jane Doe Proposed Easement

None

Map Options

Map Scale Fit to page

Printed Sheet Size A landscape (11" x 8.5") — 1 sheet

Show UTM Coordinate Ticks

Cancel | View

In the pdf viewer window, click the “Download Icon” to save the PDF File for your records.

Soil Map: Jane Doe Proposed Easement

1 / 3 | - 100% + | [Map Icon] [Refresh Icon]

[Download Icon]

1

2

3

Soil Map—Sangamon County, Illinois
(Jane Doe Proposed Easement)

39° 52' 44" N

274150 274210 274270 274330 274390 274450 274510 274570 274630 274690 274750

89° 38' 25" W

441500

441380

441260

441140

441020

440900

440780

440660

440540

440420

440300

440180

440060

440000

39° 50' 31" N

274150 274210 274270 274330 274390 274450 274510 274570 274630 274690 274750

89° 37' 25" W

State Hwy 4

SS

8396A

7242A

7075B

3107A

7242A

134C2

Soil Map may not be valid at this scale.

On page three of the soils map download .pdf, make note of the Map Unit Symbol of the top three soil types by Percent of AOI. These soil types will be used to look up the Soil Rental Rate for those soils.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
134C2	Camden silt loam, 5 to 10 percent slopes, eroded	0.3	1.5%
3107A	Sawmill silty clay loam, 0 to 2 percent slopes, frequently flooded	13.1	77.8%
7075B	Drury silt loam, 2 to 5 percent slopes, rarely flooded	1.4	8.4%
7242A	Kendall silt loam, 0 to 2 percent slopes, rarely flooded	1.8	10.5%
8396A	Vesser silt loam, 0 to 2 percent slopes, occasionally flooded	0.3	1.7%
Totals for Area of Interest		16.8	100.0%

Using the FSA Soil Rental Rate – Posting Reports, find the rate for each soil type.

REPORT ID: CRP-SOIL-R002

U.S. DEPARTMENT OF AGRICULTURE - - FARM SERVICE AGENCY
SOIL RENTAL RATE - POSTING REPORT

PREPARED:
06-11-2015

Illinois--Sangamon (17167)

County Weighted Average \$ 304.51 1/

County Simple Average \$ 301.00 2/

\$ 284 112A ,134A ,134B ,134C2 ,17A ,259C2 ,279B ,280C2 ,280D2 ,45A ,567C2 ,567D2 ,685B ,685C2

\$ 314

127C2 ,242A ,3073A ,3074A ,3107A ,284A ,3451A ,7075B ,7242A ,396A

\$ 342

127B ,138A ,244A ,249A ,257A ,3077A ,36C2 ,46A ,50A ,684C2 ,712A ,7148A ,86C2

1/ Based on all Non-Irrigated Soil Rental Rates currently posted weighted by number of MUSYM's in each SRR group.

2/ Based on the simple Average of all Non-Irrigated SRR group.

Using the Enrollment Worksheet (State Side Tab), Enter the amount of additional acres and the top 3 Soil Map Types with rates to determine an estimated payment.

Estimated Illinois CREP Payment - State Side

Application #:	16722001
SWCD Admin Count:	Sangamon
Last Name:	Bishop

Step 6. Enter the Estimated Additional Acres

Enter the number of Additional Acres to be included in the easement.

Total Additional Acres	20.0
Total Federal Acres	20.0
Total IL CREP Easement Acres	40.0

Step 7. Populate the estimated Soil Rental Rate (SRR) for the entire easement

Enter the 3 predominant soil types for the entire easement and the rental rate

*See the CREP Manual for detailed instructions for calculating SRR

Soil Map	Rental
3107	\$ 314.00
7075B	\$ 314.00
7242	\$ 314.00
Average SRR	\$ 314.00

Estimated State CREP Payment

The payment amounts below are for the state side easement payment only.

This total does not include any Federal CREP/CRP contract payments.

A: Permanent Easement - one time payment

$$\frac{\$ 314.00}{\text{Avg. SRR}} \times 15\% \times 30 = \$ 1,413.00$$

Lump Sum/Acre

$$\frac{\$ 314.00}{\text{Avg. SRR}} \times 15\% \times 30 \times 40.0 = \$ 56,520.00$$

Total Lump Sum Payment

B: 15 Year Easement - one time payment

$$\frac{\$ 314.00}{\text{Avg. SRR}} \times 25\% \times 15 = \$ 1,177.50$$

Lump Sum/Acre

$$\frac{\$ 314.00}{\text{Avg. SRR}} \times 25\% \times 15 \times 40.0 = \$ 47,100.00$$

Total Lump Sum Payment

Please proceed to the Easement Selection tab



Questions?
Contact DNR.CREP@illinois.gov

<https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>