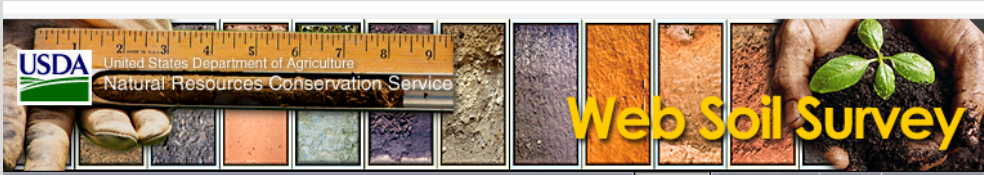


Using Web Soil Survey To Obtain Useful RUSLE Related Information





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- Browse by Subject
- Soils Home
 - National Cooperative Soil Survey (NCSS)
 - Archived Soil Surveys
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 - Official Soil Series Descriptions (OSD)
 - Series Extent Explorer
 - Geospatial Data Gateway
 - eFOTG
 - National Soil Characterization Data
 - Soil Health
 - Soil Geography

The simple yet powerful way to access and use soil data.



Welcome to Web Soil Survey (WSS)



Web Soil Survey (WSS) provides soil data and information produced by the National Cooperative Soil Survey. It is operated by the USDA Natural Resources Conservation Service (NRCS) and provides access to the largest natural resource information system in the world. NRCS has soil maps and data available online for more than 95 percent of the nation's counties and anticipates having 100 percent in the near future. The site is updated and maintained online as the single authoritative source of soil survey information.

Soil surveys can be used for general farm, local, and wider area planning. Onsite investigation is needed in some cases, such as soil quality assessments and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center at the following link: [USDA Service Center](#) or your NRCS State Soil Scientist at the following link: [NRCS State Soil Scientist](#).

Four Basic Steps

1 Define...



Use the Area of Interest tab to define your area of interest.

Click or Press the Enter or Spacebar key to view the larger image. Press

I Want To...

- Start Web Soil Survey (WSS)
- Know Web Soil Survey Requirements
- Know Web Soil Survey operation hours
- Find what areas of the U.S. have soil data
- Find information by topic
- Know how to hyperlink from other documents to Web Soil Survey
- Know the SSURGO data structure
- Use Web Soil Survey on a mobile device

Announcements/Events

- Web Soil Survey 3.4.0 has been released! [View Web Soil Survey release history](#)
- Sign up for e-mail updates via GovDelivery

I Want Help With...

- Getting Started With Web Soil Survey

<https://WebSoilSurvey.nrcs.usda.gov>

SDA United States Department of Agriculture
Natural Resources Conservation Service

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

Search

Area of Interest

Import AOI

Quick Navigation

Address

State and County

View

State: Illinois

County (optional): Scott

View

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

Hydrologic Unit

Area of Interest Interactive Map

View Extent: Contiguous U.S. | Scale: (not to scale)

Define the Area of Interest by entering Section, Township, and Range Information or you can also view your entire county if you are just interested in general soils information and do not need to tie to a specific field. T values and K factor are determined by soil type not location.

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

Search

Area of Interest

Import AOI

Quick Navigation

Address

State and County

Soil Survey Area

Latitude and Longitude or Current Location

PLSS (Section, Township, Range)

State:

Principal Meridian:

Section:

Township: ←

Range:

Duplicate Township:

Show PLSS Township and Range Layer in Map:

Show PLSS Section Layer in Map:

Bureau of Land Management

Department of Defense

Forest Service

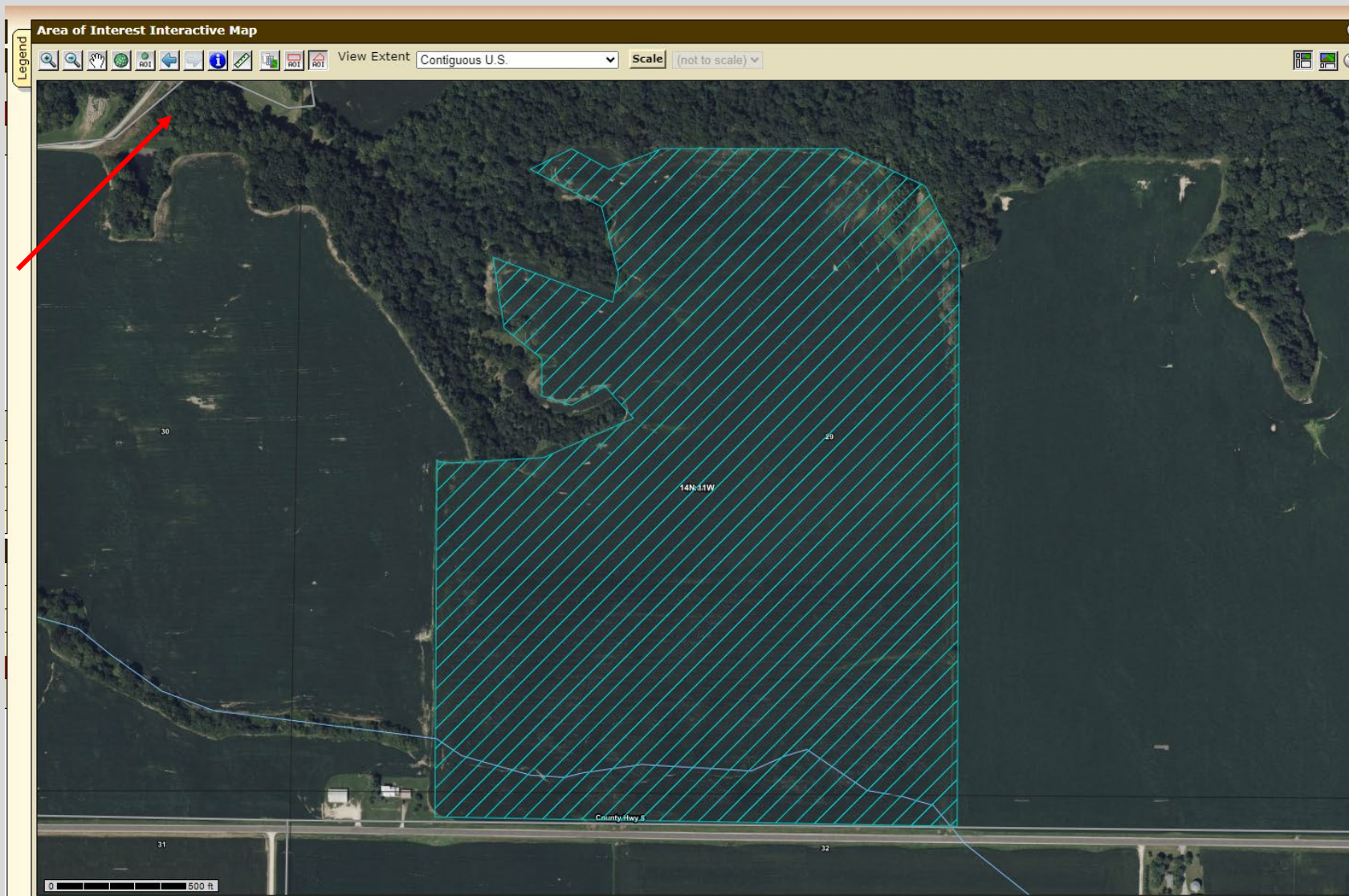
National Park Service

Hydrologic Unit

Area of Interest Interactive Map

View Extent: Scale:

Entering the Legal Description and pressing VIEW will take you to that location on the landscape.



Selecting the polygon AOI will allow you to draw in field boundaries. You can also import field boundaries but for general RUSLE information for PFC purposes, that level of accuracy is not necessary.

USDA United States Department of Agriculture
Natural Resources Conservation Service

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

Printable Version | Add to Shopping Cart

Search

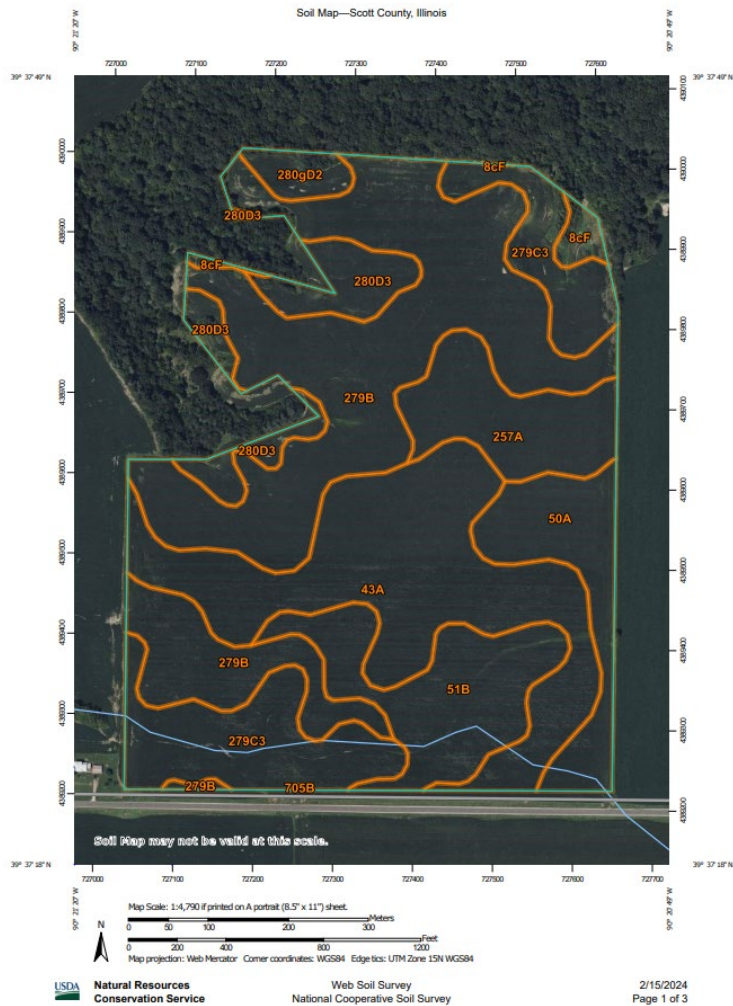
Map Unit Legend

Scott County, Illinois (IL171)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
8cF	Hickory silt loam, cool mesic, 18 to 35 percent slopes	1.1	1.1%
43A	Ipava silt loam, 0 to 2 percent slopes	22.3	21.3%
50A	Virden silty clay loam, 0 to 2 percent slopes	7.3	7.0%
51B	Muscatune silt loam, 2 to 5 percent slopes	10.0	9.6%
257A	Clarksdale silt loam, 0 to 2 percent slopes	7.5	7.2%
279B	Rozetta silt loam, 2 to 5 percent slopes	35.3	33.8%
279C3	Rozetta silty clay loam, 5 to 10 percent slopes,	13.4	12.9%

Soil Map

Selecting Soil Map Tab generates a report on the left side of the screen showing each soil type present, the number of acres of each soil type, and the percentage of each soil type in the Area of Interest. Selecting the Printable Version Tab will generate a more user-friendly report to file in the case folder for documentation.



Soil Map—Scott County, Illinois

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail and accuracy of soil boundaries. Soil boundaries on maps are shown at contrasting colors that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Projection: UTM
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection which preserves area and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Scott County, Illinois
 Survey Area Data: Version 15, Aug 28, 2023
 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 12, 2022—Aug 30, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

MAP LEGEND

- Area of Interest (AOI)
 - Area of Interest (AOI)
 - Soil Map Unit Polygons
 - Soil Map Unit Lines
 - Soil Map Unit Points
- Soils
 - Soil Map Unit Polygons
 - Soil Map Unit Lines
 - Soil Map Unit Points
- Special Point Features
 - Blowout
 - Borrow Pit
 - City Spot
 - Closed Depression
 - Gravel Pit
 - Gravelly Spot
 - Landslide
 - Lava Flow
 - Marsh or swamp
 - Mine or Quarry
 - Miscellaneous Water
 - Perennial Water
 - Rock Outcrop
 - Saltine Spot
 - Sandy Spot
 - Severely Eroded Spot
 - Sinkhole
 - Slide or Slip
 - Soils Spot
- Water Features
 - Streams and Canals
 - Rails
 - Interstate Highways
 - US Routes
 - Major Roads
 - Local Roads
- Background
 - Aerial Photography

Soil Map—Scott County, Illinois

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
8cF	Hickory silt loam, cool mesic, 18 to 35 percent slopes	1.1	1.1%
43A	Ipava silt loam, 0 to 2 percent slopes	22.3	21.3%
50A	Virdean silty clay loam, 0 to 2 percent slopes	7.3	7.0%
51B	Muscataine silt loam, 2 to 5 percent slopes	10.0	9.6%
257A	Clarksdale silt loam, 2 to 5 percent slopes	7.5	7.2%
279B	Rozetta silt loam, 2 to 5 percent slopes	35.3	33.8%
279C3	Rozetta silty clay loam, 5 to 10 percent slopes, severely eroded	13.4	12.9%
280D3	Fayette silty clay loam, glaciated, 10 to 18 percent slopes, severely eroded	5.8	5.5%
280gD2	Fayette silt loam, glaciated, 10 to 18 percent slopes, eroded	1.7	1.6%
705B	Buckhart silt loam, 2 to 5 percent slopes	0.0	0.0%
Totals for Area of Interest		104.3	100.0%

A 3-page pdf report will be generated to serve as a useful reference tool and documentation for the PFC project file. Use the acreage values or the % to determine the planning soil type in your PFC project area.

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

View Soil Information By Use: All Uses

Intro to Soils | Suitabilities and Limitations for Use | Soil Properties and Qualities | Ecological Sites | **Soil Reports**

Search

Soil Reports

Open All | Close All

- AOI Inventory
- Building Site Development
- Construction Materials
- Disaster Recovery Planning
- Land Classifications
- Land Management
- Recreational Development
- Sanitary Facilities
- Soil Chemical Properties
- Soil Erosion**
 - Conservation Planning
 - RUSLE2 Related Attributes**
 - Windbreaks and Environmental Plantings
- Soil Health
- Soil Physical Properties
- Soil Qualities and Features
- Vegetative Productivity
- Waste Management
- Water Features
- Water Management

Soil Map

Scale: 1:3,960 ±1%

County Hwy 8

You can also generate reports to determine T values, K factor, and default Slope Length for your project area. The Hydrologic Units will also be displayed which is necessary to properly calculate Runoff Curve Number required for Engineering Practices.

Select Soil Data Explorer Tab - Soil Reports Tab – Soil Erosion in the Left Column – Rusle2 Related Attributes

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

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- Soil Chemical Properties
- Soil Erosion**
- Conservation Planning
- RUSLE2 Related Attributes**
- Options
 - Include minor soils?
- Windbreaks and Environmental Plantings
- Soil Health
- Soil Physical Properties
- Soil Qualities and Features
- Vegetative Productivity
- Waste Management
- Water Features
- Water Management

Soil Map

Legend

Scale: 1:3,960 ±1%

County Hwy 8

Under RUSLE2 Related Attributes, select View Soil Report

Report — RUSLE2 Related Attributes

Soil properties and interpretations for erosion runoff calculations. The surface mineral horizon properties are displayed or the first mineral horizon below an organic surface horizon. Organic horizons are not displayed.

Scott County, Illinois

Map symbol and soil name	Pct. of map unit	Slope length (ft)	Hydrologic group	Kf	T factor	Representative value		
						% Sand	% Silt	% Clay
8cF—Hickory silt loam, cool mesic, 18 to 35 percent slopes								
Hickory, cool mesic	90	151	B	.32	5	25.0	60.0	15.0
43A—Ipava silt loam, 0 to 2 percent slopes								
Ipava	85	216	C/D	.32	5	5.0	70.0	25.0
50A—Virden silty clay loam, 0 to 2 percent slopes								
Virden	90	239	C/D	.28	5	4.0	65.0	31.0
51B—Muscatune silt loam, 2 to 5 percent slopes								
Muscatune	95	249	B/D	.32	5	3.0	71.0	26.0
257A—Clarksdale silt loam, 0 to 2 percent slopes								
Clarksdale	90	230	C/D	.43	5	4.0	78.0	18.0
279B—Rozetta silt loam, 2 to 5 percent slopes								
Rozetta	90	151	B	.37	5	4.0	77.0	19.0
279C3—Rozetta silty clay loam, 5 to 10 percent slopes, severely eroded								
Rozetta	94	151	B	.37	4	4.0	68.0	28.0
280D3—Fayette silty clay loam, glaciated, 10 to 18 percent slopes, severely eroded								
Fayette, severely eroded	94	125	B	.43	4	4.0	68.0	28.0
280gD2—Fayette silt loam, glaciated, 10 to 18 percent slopes, eroded								
Fayette	95	131	B	.43	5	4.0	77.0	19.0

This report allows you to quickly and easily confirm the T value, K factor, and Slope Length of the predominant soil type in your PFC planning area to assist you in proper completion of the PFC-1B.