Using the Web Soil Survey to Evaluate New Breaking Acreage

To start Web Soil Survey navigate to the following Site.

http://websoilsurvey.nrcs.usda.gov/app/



You will see the following



There are multiple ways to locate your interested area.

- The most common used is by PLSS (Section Township Range)
 - You can also use: Address, State and County, Latitude and Longitude as well as a few other methods.

Navigate by PLSS		
X		
$\langle \rangle$		
\backslash	Search	ø
\mathbf{X}	Quick Navigation	8
	Navigate By	۲
	Address	
	State and County	
N	Soil Survey Area	
	Latitude and Longitude	
	PLSS (Section, Township, Range)	
	Bureau of Land Management	
	Department of Defense	
	Forest Service	
	National Park Service	
	Hydrologic Unit	

- 1. Select your State
 - This example also requires you to select your Principal Meridian. You can click the
 View Meridian Map to find the correct Meridian.
- 2. Enter your Section, Township and Range then click view

Latitude and Longi	tude	
PLSS (Section, To	ownship, Range)	
	View 🕐	
State	South Dakota	
Principal Meridian	Fifth Principal 👻	
	View Meridian Map	
Section	36	Section
Township	100 🗲 🛞 North	Township
	South	Township
Range	62 ┥ 🔿 East	Device
	 West 	kange
Show PLSS Section and PLSS Township and Range	v	
		When finished click the view button
	View	

You will get the following Image

Instant Destructs Conversion Service	Soil Survey Status Glossary Preferences Lopout Help			Web Sol Survey An
rea of Interest (AOI) 50i Mup 30i I	ata Explorer Tropping Cart (Free)			
				0
irch 0	Area of Interest Interactive Map			0
ck Navigation		scale		原則の
rigate By 🛞			1	
sdress.	State - and i		1 - 1 - 1 - 1 - 1	
ate and County	10 B	0	and the second se	
ið Survey Area				
titude and Longitude	CONTRACTOR OF TAXABLE PARTY OF TAXABLE PARTY.	And the second designed in the second distance of the second distanc		The second s
SS (Section, Township, Range)	a Top a			
State South Dakota 💌				
incipal Meridian Fith Principal	2			11 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1
View Meridian Hap				and the second second
Section 36				THE REAL PROPERTY AND INCOME.
Township	the second se	Service and the service of the servi	45. 1011	ATTENDED BY AND A
100 North		10 Mar		TOUR INTERVISION
O South				1 D. U.S
Range 62 O East	10 - David			AND DECKSON
West	and the second s	T1004 R62W		TIDON RETW
Show PLSS		The second second		
Section and			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00
and Range		Desgua		and the second second
Layers in Map	a	(80)		Partchanter
View			1000	LARGE HER STATE
also of Land Management		- 10- 10		A
partment of Defense				f and the second se
rest Service			(see	and the second
tional Park Service				ALL DECKLOSE
rdrologic Unit				And Lines
	and the second s		8	THE REAL PROPERTY AND
			8	C LIGHT CONTRACTOR
	See and the second seco			194155-1
	- All		a second second second	AND STATE
				and the second se
			-	Circal Intranet . 1000

You can click on these buttons to toggle back between the current screen and full screen.

From here you will use the toolbar to perform various functions.

-	Area of Interest Interactive Map	0				
-chein			View Extent	Contiguous U.S.	Scale	(not miscale) -
-	and the second				-	

These two tools are used to draw the Area of Interest

- The one on the left creates a box
- The one on the right is more useful since it can be used to draw an abstract shape as seen in the two following examples. Double click to finish the drawing.





In order to get the entire area you must draw the area of interest in one polygon. One way to do this is by drawing your area of interest like the example below. The lines can overlap.



After you draw your area of interest you will want to check the total acres to help verify your accuracy. The acres are listed to the left.

The next step is to determine the Capability Class. To do this you first must navigate from the Area of Interest tab to the Soil Data Explorer Tab.

Contact Us	Download Soils Data	Archived Soil Surveys	Soil Survey Status Glossary Preferences Logout H
Area of	Interest (AOI)	Soil Map Soil	Data Explorer Shopping Cart (Free)
Search		8	Area of Interest Interactive Map
Area of In	terest Properties	8	5 🔍 🔍 🕅 🎯 🚨 🐳 🗐 🚺 🖉 🖷 🔜 View Exte
		Clear AOI	
AOI Infor	mation	•	

Click on Land Classifications

Intro to Soils Suit Abilities and	d Limitations	for	Use
Search	8		Soil Map
Suitabilities and Limitations Ratings	0	gend	Q Q 87 (
Open All	Close All	E	
Building Site Development	? (3)		
Construction Materials			
Disaster Recovery Planning	1 3		
Land Classifications	30		
Land Management	3 3		
Military Operations	00		
Recreational Development	00		
Sanitary Facilities	00		
Vegetative Productivity	? (
Waste Management	? (3)		
Water Management	30		

Choose the applicable Capability Class (either Irrigated or Nonirrigated). If there is no data available under Irrigated Capability Class, use Nonirrigated Capability Class.

earch	😌 👦 Soi
uitabilities and Limitations Ratings	ତ 👼 🔍
ppen All	Close All
uilding Site Development	?
onstruction Materials	00
isaster Recovery Planning	()
and Classifications	08
Conservation Tree and Shrub Group	
Ecological Site ID	
Ecological Site Name	
Farmland Classification	
Forage Suitability Group ID (Component	Table)
Hydric Pating by Map Unit	
Irrigated Capability Class	
Irrigated Capability Subclass	
Nonirrigated Capability Class	
Nonirrigated Capability Subclass	
Soil Taxonomy Classification	
and Management	?
ilitary Operations	() ()

View Description View Rating View Options (*) Map (*) Table (*) Description of Rating (*) Rating Options (*) Advanced Options (*) View Description View Rating View Description (*) Options (*) Options (*) Options (*) View Description (*) View Description (*) Vointrigated Capability Subclass

Click on View Rating



You will get the something similar to the below image.

The following pages are an example of a Printed/PDF Nonirrigated Capability Class. In order to understand the map legend it must be printed in color.

Nonirrigated Capability Class-Douglas County, South Dakota



Nonirrigated Capability Class-Douglas County, South Dakota

	MAP LE	GEND		м		ION
Area of int	erest (AOI)	\sim	Local Roads	Map Scale: 1:5,280	if printed on A size (8.5"	'× 11") sheet.
	Area of Interest (AOI)			The soil surveys that	t comprise your AOI wer	e mapped at 1:20,000.
Solla	Soll Map Units			Please rely on the b measurements.	ar scale on each map sł	neet for accurate map
Soll Rati	nga			Source of Map: N	atural Resources Conse	rvation Service
	Capability Class - I			Web Soil Survey UF	L: http://websoilsurve	y.nrcs.usda.gov
	Capability Class - II			Coordinate System:	UTM Zone 14N NAD	83
	Capability Class - III			This product is gene the version date(s) I	rated from the USDA-NF isted below.	RCS certified data as of
	Capability Class - IV Capability Class - V			Soil Survey Area: Survey Area Data:	Douglas County, South Version 13 Feb 8 201	Dakota 0
	Capability Class - VI			Date(s) aerial image	s were photographed:	7/15/2004: 8/8/2004
	Capability Class - VII			The orthophoto or o	ther base map on which	the soil lines were
	Capability Class - VIII			compiled and digitiz	ed probably differs from	the background
	Not rated or not available			of map unit boundar	n these maps. As a rest ies may be evident.	lit, some minor snitting
Political Fe	atures					
٥	Cities					
	PLSS Township and Range					
	PLSS Section					
Water Feat	ures					
	Oceans					
~	Streams and Canals					
Transporta	ation					
+ + +	Ralls					
~	Interstate Highways					
~	US Routes					
	Major Roads					

Nonirrigated Capability Class

Noningated capability class- autimaty by map onit - bouglas county, adult baketa							
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI			
CnA	Clarno-Ethan-Prosper loams, 0 to 3 percent slopes	2	44.1	48.4%			
CnB	Clarno-Ethan-Prosper loams, 1 to 6 percent slopes	2	2.0	2.2%			
СрА	Clarno-Prosper loams, 0 to 2 percent slopes	2	25.2	27.7%			
Pt	Prosper-Tetonka complex	2	0.9	0.9%			
Te	Tetonka silt loam	4	18.9	20.8%			
Totals for Area of Inte	rest	91.1	100.0%				

Description

Land capability classification shows, in a general way, the suitability of soils for most kinds of field crops. Crops that require special management are excluded. The soils are grouped according to their limitations for field crops, the risk of damage if they are used for crops, and the way they respond to management. The criteria used in grouping the soils do not include major and generally expensive landforming that would change slope, depth, or other characteristics of the soils, nor do they include possible but unlikely major reclamation projects. Capability classification is not a substitute for interpretations that show suitability and limitations of groups of soils for rangeland, for woodland, or for engineering purposes.

In the capability system, soils are generally grouped at three levels-capability class, subclass, and unit. Only class and subclass are included in this data set.

Capability classes, the broadest groups, are designated by the numbers 1 through 8. The numbers indicate progressively greater limitations and narrower choices for practical use. The classes are defined as follows:

Class 1 soils have few limitations that restrict their use.

Class 2 soils have moderate limitations that reduce the choice of plants or that require moderate conservation practices.

Class 3 soils have severe limitations that reduce the choice of plants or that require special conservation practices, or both.

Class 4 soils have very severe limitations that reduce the choice of plants or that require very careful management, or both.

Class 5 soils are subject to little or no erosion but have other limitations, impractical to remove, that restrict their use mainly to pasture, rangeland, forestland, or wildlife habitat.

Class 6 soils have severe limitations that make them generally unsuitable for cultivation and that restrict their use mainly to pasture, rangeland, forestland, or wildlife habitat.

Class 7 soils have very severe limitations that make them unsuitable for cultivation and that restrict their use mainly to grazing, forestland, or wildlife habitat.

Class 8 soils and miscellaneous areas have limitations that preclude commercial plant production and that restrict their use to recreational purposes, wildlife habitat, watershed, or esthetic purposes.

Rating Options

Aggregation Method: Dominant Condition Component Percent Cutoff: None Specified Tie-break Rule: Higher