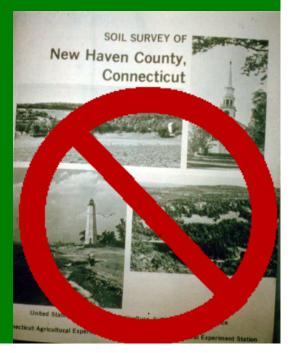
The New Generation of the Connecticut Soil Survey

USDA Natural Resources Conservation Service



The new digital Soil Survey of the State of Connecticut, dated July 15, 2005, or later, is the <u>official soil survey</u> for the state.



Kinds of Map Units

Consociation

Dominantly Soil A

29A Agawam fine sandy loam, 0 to 3 percent slopes

Complex

Always Soil A with Soil C

237A Manchester-Urban land complex, 0 to 3 percent slopes

Undifferentiated

Soil A and B or All A or All B



86D Paxton and Montauk fine sandy loams, 15 to 35 percent slopes, extremely stony

Α

C

Soil Map Unit



B

A Central Pedons
B Similar Inclusions
Z Dissimilar Inclusions



1:12,000 scale

1:3,000 scale



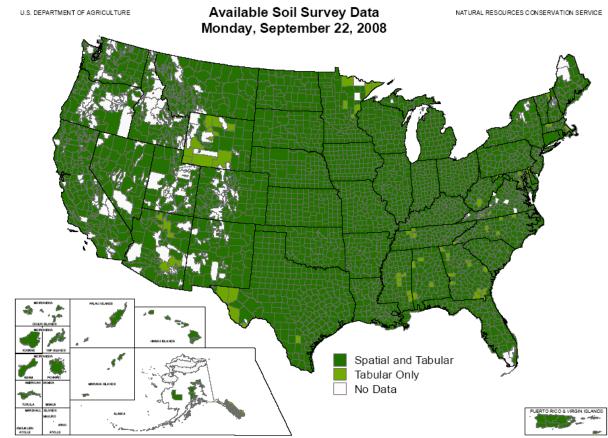
Official digital soils information may be obtained from NRCS:

• Web Soil Survey – users can create maps online, print the maps, and get soils information for their site

http://soils.usda.gov/survey

• NRCS Soil Data Mart – users can download spatial data for GIS use, tabular soils data, or generate soil reports online

http://soildatamart.nrcs.usda.gov



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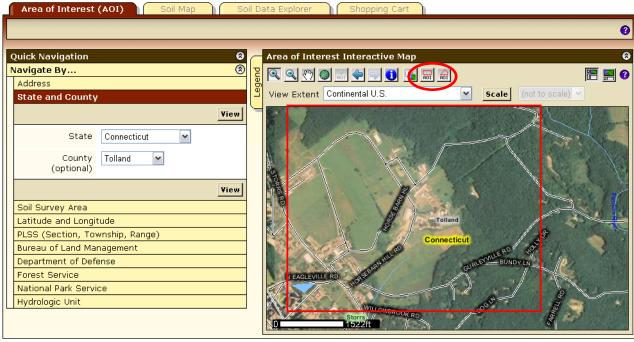
visit Soil Data Mart at http://soildatamart.nrcs.usda.gov



Navigate to your area of interest

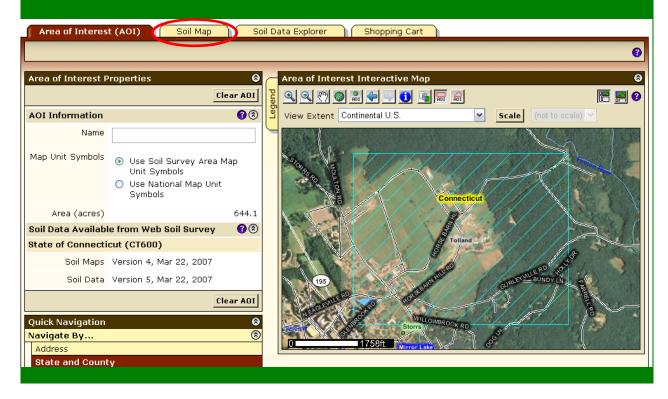
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Click and drag one of the AOI buttons to outline the boundaries of your desired area



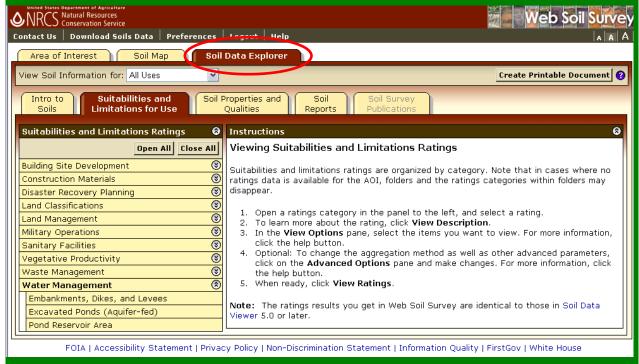
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Area of interest has been created – next click on soil map tab



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ntact Us Area of	Download Soils D		hived Soil Sur	veys Soil
Map Unit I	_egend			0
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State of Map Unit Symbol	Connecticut (CT6 Map Unit Name	00) Acres in AOI		
2	Ridgebury fine sandy loam	16.9	2.6%	
3	Ridgebury, Leicester, and Whitman soils, extremely stony	51.7	8.0%	-
17	Timakwa and Natchaug soils	2.2	0.3%	
23A	Sudbury sandy loam, 0 to 5 percent slopes	5.9	0.9%	
38C	Hinckley gravelly sandy loam, 3 to 15 percent slopes	4.5	0.7%	
38E	Hinckley gravelly	7.8	1.2%	

Explore the soil data



Drainage Class

Intro to Soils Suitabilities and Limitations 1	for Use	Soil Properties an	d Qualities Soil	Reports			
Properties and Qualities Ratings 🛛 😵	— Мар — С	Drainage Class			8		
Open All Close All ?		🖑 🔘 🗟 🔶 🔜 🕚	🚯 Scale (not to sca	ile) 💙	i 🔚 🔚 🕜		
Soil Chemical Properties			No. Contraction of the		Color Color		
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Cation-Exchange Capacity (CEC-7)		RAR			1 1 1		
Effective Cation-Exchange Capacity (ECEC)		454	R.C. V.L. A	A BED A	A L L		
Electrical Conductivity (EC)	Phys.	NATE I	2012120	12 Sell	13216		
Gypsum			I A LAP A		- A - A - 4		
pH (1 to 1 Water)				3 616			
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K Factor, Rock Free			307 610	0 (11) 3-			
K Factor, Whole Soil	1.1			1 81G			
T Factor	and a	307	o 85G		A ST LINE D		
Wind Erodibility Group	1 - X			CIERT V	1.		
Wind Erodibility Index	24			19 L	Clean S.		
Soil Physical Properties 🛞				736	RUL TO		
Available Water Capacity		Kan a		Sa AN			
Available Water Supply, 0 to 100 cm	<u>_0</u>	2110ft			and the second		
Available Water Supply, 0 to 150 cm	Tables — D)rainage Class — Sumn	nary By Man Unit		8		
Available Water Supply, 0 to 25 cm	Summary by Map Unit – State of Connecticut						
Available Water Supply, 0 to 50 cm	-	· ·			<u> </u>		
Bulk Density, 15 Bar	Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI		
Bulk Density, One-Tenth Bar	2	Ridgebury fine sandy	Poorly drained	12.5	1.2%		
Bulk Density One-Third Bar	-	loem		1210	112 /0		



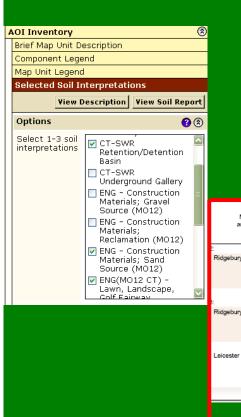
Map Unit Descriptions are in the "AOI Inventory" menu of the Soil Reports tab Minor map unit components are excluded from this report.

State of Connecticut

Map Unit: 2-Ridgebury fine sandy loam

Component: Ridgebury (80%)

The Ridgebury component makes up 80 percent of the map unit. Slopes are 0 to 5 percent. This component is on depressions on uplands, drainageways on uplands. The parent material consists of coarse-loamy lodgment till derived from granite and/or schist and/or gneiss. Depth to a root restrictive layer, densic material, is 20 to 30 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 3 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 6 percent. Nonirrigated land capability classification is 4w.



CT NRCS soil scientists developed interpretive tables which reflect local criteria and conditions

Pct. of	CT-SWR Retention/Detention Basin *				ENG(MO12 CT) - Lawn, Landscape, Golf Fairway *	
unit	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
80	Very limited		Poor		Very limited	
	Depth limited	1	Thickest layer Bottom layer	0	Depth to saturated zone	1
					Depth to pan	0.99
40	Very limited Depth limited	1	Poor Thickest layer Bottom layer	0	Very limited Depth to saturated zone	1
35	Very limited		Poor		Depth to pan Very limited	0.99
Depth limited		1	Bottom layer Thickest layer	0	Depth to saturated zone	1
	of map unit 80 40	Pot. Basin * of map unit Rating class and limiting features 80 Very limited 90 Very limited 40 Very limited 25 Very limited	Put. Basin * of map unit Rating class and limiting features Value 80 Very limited Depth limited 1 40 Very limited Depth limited 1 35 Very limited 1	Put of map unit Basin * Sand Source (MO12 Sand Source (MO12 Value Rating class and limiting features 80 Very limited Value Rating class and limiting features 80 Very limited 1 Poor Thickest layer Bottom layer 40 Very limited 1 Poor Thickest layer Bottom layer 35 Very limited Depth limited 1 Poor Door Bottom layer	Pot map unit Basin * Sand Source (MO12) ** Rating class and limiting features Value Rating class and limiting features Value 80 Very limited Poor Thickest layer 0 40 Very limited 1 Poor 0 40 Very limited 1 Poor 0 35 Very limited 1 Poor 0 36 Very limited 1 Bottom layer 0 35 Very limited 1 Bottom layer 0	Put of map unit Basin * Sand Source (MO12) ** Landscape, Golf Fair Rating class and limiting features Value Rating class and limiting features Value Rating class and limiting features Value Rating class and limiting features 80 Very limited Poor Very limited Depth is saturated Bottom layer 0 Depth to saturated Zone Depth to pan 40 Very limited 1 Thickest layer Bottom layer 0 Depth to saturated Zone Depth to pan 36 Very limited 1 Bottom layer 0 Depth to pan 35 Very limited Poor Very limited Dor Very limited Bettom layer 0 Depth to pan Depth to pan Depth to pan

When not to use a soil survey:

- To regulate from only a guide
- For site specific locations and applications (for example: where to site a house)
- If you know it's a disturbed area

Nothing beats the on-site investigation!



If you're in Washington DC.....visit the "Dig It" soils exhibit at the Smithsonian!



A slice of Connecticut, a sample of Windsor loamy sand, is one of the 54 monoliths in a gallery of soils representing each US state and territory.

