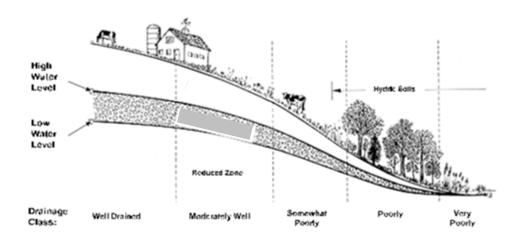
Soil Series

There are 117 major types of soils in Connecticut identified and named. Each type (or series) is named for the geographical area where it was first described. Each soil series has specific relationships to landscapes, regional geology, and parent materials.

Soil Catena Chart

Related soils of about the same age, derived from similar parent material and occurring under similar climatic conditions, can be arranged into a sequence of increasing wetness. This sequence is called a *soil catena*. A catena chart is useful in identifying the relationship of one series to another.

The chart uses the catena concept by matching parent material, geology, and drainage for each series mapped in the Soil Survey of the State of Connecticut. Each horizontal line in the chart represents an individual soil catena and each catena is, in turn, arranged vertically by differences in surficial deposits, lithology, and soil texture. There are 9 very poorly drained soil series formed in organic deposits and 9 subaqueous soil series that have been organized differently at the bottom of the chart.



- The diagram above shows a drainage sequence in which wetness increases at lower elevations on the landscape.
- The block diagram on the front page shows a drainage catena on till parent materials of drumlins.

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

CT DEEP and USDA-NRCS 2022 Soil Catenas of Connecticut. Connecticut Geological Survey, Office of Information Management Connecticut Department of Energy and Environmental Protection USDA-Natural Resources Conservation Service, Tolland, Connecticut

USDA, Natural Resources Conservation Service 344 Merrow Road, Suite A, Tolland, CT 06084 (860) 871-4011 www.ct.nrcs.usda.gov

For soil survey information, technical soil services, and natural resources conservation programs, contact:

For natural resource information, please contact:

Connecticut Geological Survey, Office of Information Management
Connecticut Department of Energy and Environmental Protection
79 Elm Street, Hartford, CT 06106
(860) 424-3540

Official digital soil survey information is located on the Web Soil Survey at http://websoilsurvey.nrcs.usda.gov. It is a simple yet powerful way to access and use soil data. The site is updated and maintained online as the single authoritative source of soil survey information.

The Web Soil Survey

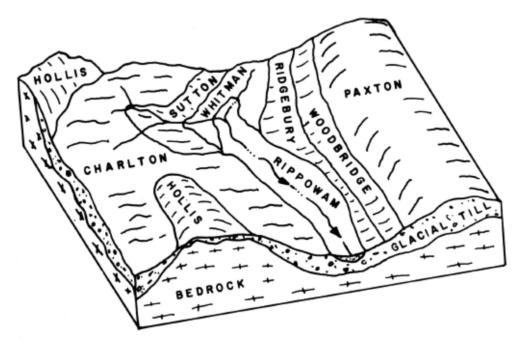
Copies of the published county soil survey reports dated prior to July 2005 are no longer the official soil survey information and should only be used as historical reference.

The Soil Survey of the State of Connecticut is a modern soil survey, unifying the separate eight county soil legends to a single statewide legend, incorporating current soil taxonomy and standards, addressing land use changes and urbanization, and compiled onto planimetric orthophoto base. The soils were mapped at a scale of planimetric orthophoto base. The soils were mapped at a scale of 1.12000 with a minimum size delineation of approximately 1.5 acres.

Soil Survey of the State of Connecticut

Soil Catenas of Connecticut

The relationships between soils, landscapes, regional geology, and parent material







SOIL CATENAS OF CONNECTICUT

		SOIL CATENAS OF CONNECTICUT SOIL DRAINAGE CLASS							
DEPOSIT	LITHOLOGY	TEXTURE GROUP	Excessively	Somewhat Excessively	Well Drained	Moderately Well	Somewhat Poorly	Poorly	Very Poorly
	GRANITE & SCHIST	SANDY		GLOUCESTER					
				* WESTMINSTER #					
	SCHIST, GRANITE & GNEISS				** MILLSITE #				
				* HOLLIS ²⁸		1			
					** CHATFIELD]			
					CHARLTON	OUTTON 1		LEIGEGTED	
					CANTON	SUTTON ¹		LEICESTER	
					BICE#	SCHROON#			LOONMEADOW #
					* PAXTON * MONTAUK	* WOODBRIDGE		* RIDGEBURY	+ WHITMAN
					* SHELBURE #	+ ASHFIELD #		RIDGEBURY	WHITIMAN
	MIXED CARBONATE ROCKS & CRYSTALLINE ROCKS				* FARMINGTON		_		
		LOAMY			PYRITIES#	* HOGANSBURG #			
GLACIAL TILL					STOCKBRIDGE	GEORGIA		MUDGEPOND 18, 20	ALDEN 19
Unstratified Sand, Silt & Rock					NELLIS 11	AMENIA			
					* HOLYOKE ²⁹		1		
	RED SANDSTONE, SHALE, CONGLOMERATE & BASALT				** YALESVILLE				
					CHESHIRE ^{24, 29}	WATCHAUG ⁶	1		
					* WETHERSFIELD	⁺ LUDLOW	•	+ WILBRAHAM	* MENLO
				* BRIMFIELD	BROOKFIELD		1		
	BROWN MICACEOUS SCHIST				**NIPMUCK				
	PHYLLITE, SCHIST & SLATE SHALE, SANDSTONE, BASALT			* TACONIC #	** MACOMBER #				
					*BERNARDSTON				
					⁺ LANESBORO #	⁺ FULLAM #		+	
					DUMMERSTON #			* BRAYTON #	
					* BROADBROOK	* RAINBOW			
	& CRYSTALLINE ROCKS	SILTY / SANDY			NARRAGANSETT	WAPPING			
	ACIDIC CRYSTALLINE ROCKS (granite, gneiss and schist)	SANDY & GRAVELLY	HINCKLEY 17	MERRIMAC		SUDBURY		WALPOLE	
			BOSCAWEN #	WERRINAO				MOOSILAUKE #	45.00
		SANDY	WINDSOR			DEERFIELD			SCARBORO 15, 32
		LOAMY / SAND & GRAVEL			AGAWAM	NINIGRET			•
GLACIOFLUVIAL Stratified Sand & Gravel		SILTY / SAND & GRAVEL			ENFIELD 16	TISBURY		RAYPOL	
					HAVEN			10111 02	
	ACIDIC, RED SANDSTONE, SHALE, CONGLOMERATE	OANDY A OBAYELLY		Т	BRANFORD	ELLINGTON			
		SANDY & GRAVELLY SANDY	MANCHESTER	HARTFORD					
		SANDY & GRAVELLY	PENWOOD						
	MIXED CARBONATE ROCKS & CRYSTALLINE ROCKS	LOAMY / SAND & GRAVEL	GROTON		COPAKE	HERO	1	FREDON	HALSEY 7
					OOFARE				HALSET
GLACIOLACUSTRINE Stratified Sand, Silt & Clay	MIXED CRYSTALLINE & SEDIMENTARY ROCKS	SILTY	4			BELGRADE 27	-	RAYNHAM 31	
		LOAMY / CLAYEY				ELMRIDGE 13, 21		SHAKER 30	5 33
		SILTY & CLAYEY				BRANCROFT 9 BERLIN		SCITICO 26	MAYBID ^{5, 33}
ALLUVIAL Stratified Sand & Silt		CANDV	SUNCOOK			DEIXEIN			
	GNEISS, SCHIST, GRANITE & QUARTZITE	SANDY	SUNCOUK		ONDAWA #			RUMNEY#	
		LOAMY			OCCUM ⁴	POOTATUCK ²³		RIPPOWAM	
	MIXED CRYSTALLINE & SEDIMENTARY ROCKS	SILTY	-		HADLEY 14	WINOOSKI 12	BASH ^{8, 25}	LIMERICK	MEDOMAK # SACO
COASTAL	MARINE DEPOSITS	SANDY	HOOKSAN				<u> </u>	Livi	SANDYHOOK
HUMAN ALTERED & HUMAN TRANSPORTED	HAHT MATERIALS OVER TERRESTRIAL SOILS	LOAMY/ SANDY		<u> </u>	VERRAZANO				

	WETLAND TYPE	FIBERS	THICKNESS		THICKNESS		THICKNESS		SUBSTRATE	SOIL SERIES
	FRESHWATER (INLAND)	FEW	>51"	(>130 cm)	VARIABLE	CATDEN 10				
						FREETOWN				
						BUCKSPORT#				
ORGANIC			16-51"	(40-130 cm)	LOAMY	NATCHAUG 22				
Peat & Muck			16-51"	(40-130 cm)	LOAMY	WONSQUEAK#				
					SANDY	TIMAKWA ²				
	SALT AND BRACKISH (TIDAL)	COMMON				PAWCATUCK				
					VARIABLE	WESTBROOK				
			>51"	(>130 cm)	VARIABLE	IPSWICH				

	PARENT MATERIAL	HIGHLY FL	UID SURFACE	NOT SULFIDIC	SULFIDIC
	MARINE/ESTUARINE	0-4 "	(0-10 cm)	RHODESFOLLY	NAGUNT
	SANDS	4-20"	(10-50 cm)		MARSHNECK
SUBAQUEOUS	MARINE/ESTUARINE SILTS				FORT NECK
Salt & Brackish Waters ++		>39"	(>100 cm)		PISHAGQUA
					WEQUETEQUOCK
	MARINE/SUBMERGED TERRESTRIAL	0-4"	(0-10 cm)	NAPATREE	ANGUILLA
		>4"	(>10 cm)		BILLINGTON

Historical Soil Series

Since the publication of the soil surveys for all eight Connecticut counties, the classification of soils has continued to evolve. When using the historical published soil surveys, one will encounter a variety of soil series names not currently in use. These series, noted above, are referenced by number to the most current name available at the time of this publication. For example, the soil mapped as *Acton*, if classified by today's standards, may be named *Sutton*.

Charts on this page supplement all Connecticut soil surveys by referring to both current and previously used soil series names. However, since there are some major differences in map units and soil series interpretations from survey to survey, it is necessary to refer to the narrative descriptions within the appropriate archived survey to obtain complete information concerning a particular soil.

Official Soil Series Descriptions

More detailed information about each soil series is located on the USDA-NRCS soils webpage under Official Soil Series Descriptions (OSDs). This site is updated and maintained online as the official source of tentative and established soil series.

- + Indicates soils underlain by compact till.
- $^{\star}\,$ Indicates shallow soils less than 20 inches (< 50 cm) to bedrock.
- ** Indicates moderately deep soils 20 to 40 inches (50-100 cm) to bedrock.
- # Indicates soils with mean annual soil temperature less than 8°C or 46.4°F (elevations of >1,300 feet/396 meters in Litchfield County) in frigid soils.
- ++ Subaqueous soils are covered with water for more than 21 hours per day.
- 1-33 Annotations to referenced soil series no longer used in CT.

SOIL SERIES NO LONGER USED IN CONNECTICUT						
1. Acton	9. Buxton	17. Jaffrey	26. Scantic			
2. Adrian	10. Carlisle	18. Kendaia	27. Scio			
3. Au Gres	11. Dover	19. Lyons	28. Shapleigh			
4. Bermudian	12. Eel	20. Massena	29. Sunderland			
5. Biddeford	13. Elmwood	21. Melrose	30. Swanton			
6. Birchwood	14. Genesse	22. Palms	31. Wallington			
7. Birdsall	15. Granby	23. Poquonock	32. Wareham			
8. Bowmansville	16. Hartland	25. Rowland	33. Whately			



