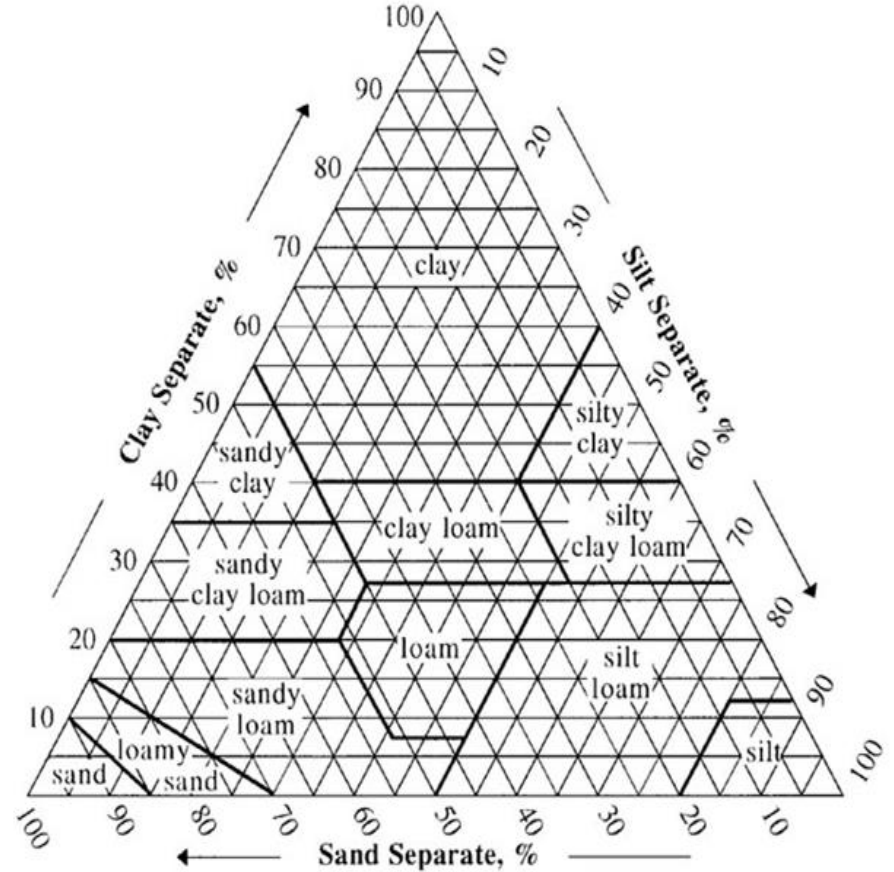


# Soils and Soil Mapping

Caryn Dawson, MAEAP Technician, OCD  
June 10, 2022  
Holland, MI




# Soil types

- Clay, fine particles
  - Higher runoff risk
- Silt
- Sand
  - Good drainage, higher leaching potential



# Soils and CREP

Practices what soil property is being affected

- CP1-establishment of permanent introduced grasses to restr. layer  Soil organic matter, Soil type, depth
- CP2-establish of perm native grasses Soil organic matter
- CP5A- Field windbreak
- CP21-Filter strips
- CP22 riparian buffer 
- CP23-wetland restoration-floodplain  Drainage class
- CP23A-Wetland restoration-non floodplain Drainage class
- CP26-sediment control basin

# Soils and CRP

- [CP-1](#) --"Establishment of Permanent Introduced Grasses & Legumes"
- [CP-2](#) --"Establishment of Permanent Native Grasses"
- [CP-3/3A](#) --"Tree Planting"
- [CP-4D](#) --"Permanent Wildlife Habitat"
- [CP-5A](#) --"Field Windbreak Establishment"
- [CP-8A](#) --"Grass Waterway"
- [CP-9](#) --"Shallow Water Areas for Wildlife"
- [CP-12](#) --"Wildlife Food Plot"
- [CP-15A](#) --"Contour Grass Strips"
- [CP-16A](#) --"Shelterbelt Establishment"
- [CP-17A](#) --"Living Snow Fences"
- [CP-18B](#) --"Establishment of Permanent Vegetation To Reduce Salinity"
- [CP-21](#) --"Filter Strip"
- [CP-22](#) --"Riparian Buffers"

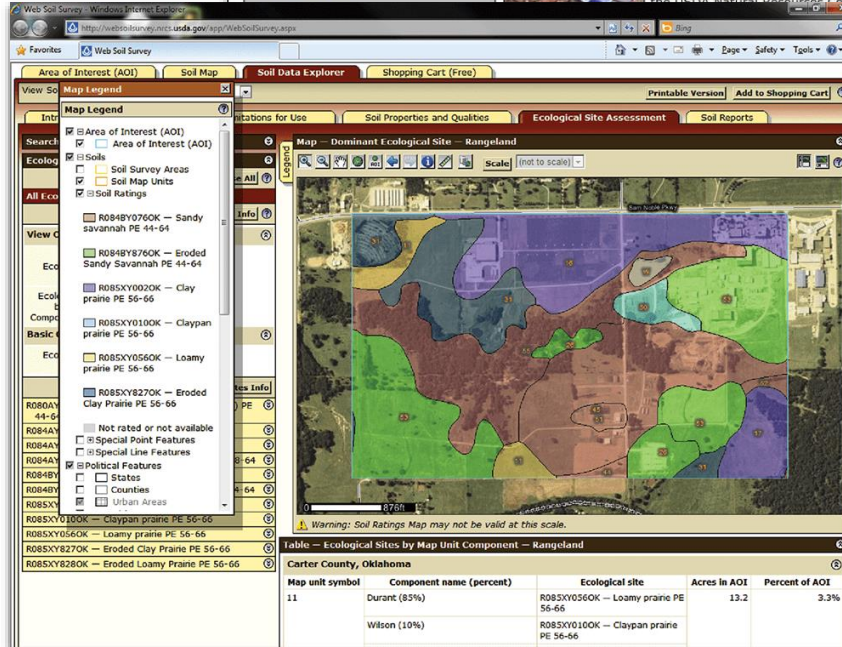
# Soils and CRP

- [CP-23](#) --"Wetland Restoration On Floodplains"
- [CP-23A](#) --"Wetland Restoration, Non-Floodplain"
- [CP-25](#) --"Rare And Declining Habitat"
- [CP-27 & 28](#) --"Farmable Wetlands Program"
- [CP-29](#) --"Marginal Pastureland Wildlife Buffer"
- [CP-30](#) --"Marginal Pastureland Wetland Buffer"
- [CP-31](#) --"Bottomland Timber Establishment on Wetlands"
- [CP-33](#) --"Habitat Buffers for Upland Birds"
- [CP-36](#) --"Longleaf Pine Establishment"
- [CP-37](#) --"Duck Nesting Habitat"
- [CP-38](#) --"State Acres for Wildlife Enhancement (SAFE)"
- [CP-39](#) --"Farmable Wetlands Program Constructed Wetlands"
- [CP-40](#) --"Farmable Wetlands Program Aquaculture Wetlands"
- [CP-41](#) --"Farmable Wetlands Program Flooded Prairie Wetlands"
- [CP-42](#) --"Pollinator Habitat"
- [CP-43](#) --"Prairie Strips"

# Web Soil Survey

- Soil survey categories of interest for conservation planning
  - Land Classifications
  - Land Management
  - Vegetative Productivity
  - Water Management
  - Soil Health
  - Recreational Development
  - Disaster Recovery Planning

[Web Soil Survey - Home \(usda.gov\)](http://websoilsurvey.usda.gov)



**Announcements/Events**

- Web Soil Survey 2.3 has been released! View description of new features.
- Web Soil Survey Release

Custom Soil Resource Report  
Soil Map

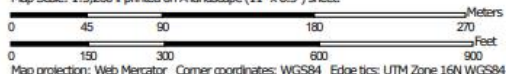
- 4670 142nd Ave,  
Holland, MI 49423



**Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
16B	Capac loam, Lake Michigan lobe, 0 to 4 percent slopes	34.9	75.7%
41B	Blount silt loam, 1 to 4 percent slopes	2.3	4.9%
45	Pewamo silt loam	8.2	17.9%
72B	Urban land-Oakville complex, 0 to 6 percent slopes	0.7	1.5%
<b>Totals for Area of Interest</b>		<b>46.0</b>	<b>100.0%</b>

Map Scale: 1:3,260 if printed on A landscape (11" x 8.5") sheet.



# Soil Types

- 16B—Capac loam, Lake Michigan lobe, 0 to 4 percent slopes
  - Hydric soil rating: No
- 41B—Blount silt loam, 1 to 4 percent slopes
  - Hydric soil rating: No
- 45—Pewamo silt loam
  - Hydric soil rating: Yes
- 72B—Urban land-Oakville complex, 0 to 6 percent slopes
  - Hydric soil rating: No

# Hydric soils

The National Technical Committee for Hydric Soils (NTCHS) defines a hydric soil as a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994).

- Hydric soils are not eligible for CRP/CREP practice implementation

# Resources

NRCS website

Contact people



#### Soil Use

[Hydric Soils](#)

[Urban Soils](#)

[Maps](#)

[World Soil Resources](#)

#### References

- [Technical Soil Services Handbook](#)
- [Field Indicators of Hydric Soils](#)
- [National Technical Committee for Hydric Soils](#)
- [National Food Security Act Manual](#)
- [Code of Federal Regulations: Highly Erodible Land Conservation and Wetland Conservation](#)
- [US Army Corps of Engineers: Corps of Engineers Wetlands Delineation Manual](#)
- [US Army Corps of Engineers: Regional Supplements to Corps Delineation Manual](#)

## Technical Soil Services

Technical Soil Services (TSS) are a function of the United States Department of Agriculture, Natural Resources Conservation Service (NRCS), under the Soil and Plant Science Division and the National Cooperative Soil Survey (NCSS). Technical soil services are also performed by soil scientists of the United States Department of the Interior, Bureau of Land Management (BLM), and the USDA Forest Service (USFS) as part of the NCSS.

A major responsibility of TSS personnel within NRCS is to assist users with understanding and properly using the soil survey and to provide users with predictions and interpretations about the behavior of each kind of soil mapped or identified under defined situations.

Within NRCS, technical soil services are provided by resource soil scientists working in USDA area offices and by soil scientists working in soil survey project offices. The soil scientists work in an interdisciplinary environment with other NRCS specialists, such as agronomists, foresters, grazing land specialists, biologists, engineers, hydrologists, soil conservationists, soil technicians, and program managers, and with university researchers, consultants, community planners, and groups involved in the development and use of soils information for the management of natural resources. NRCS has the legislated Federal responsibility to lead the activities of the NCSS.

### Locator Map for TSS Reports

Each point on the map indicates a location for which a TSS report is available online. Click on an individual point for details. The points do not necessarily indicate the exact location referred to in the report. In some cases, more than one report is available per map point. These reports are also sorted by date [below the map](#).

# Websites

- “Natural Resources Conservation Service.” *Soil Formation and Classification | NRCS Soils*, [https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/edu/?cid=nrcs142p2\\_054278](https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/edu/?cid=nrcs142p2_054278).
- National Soil Survey Handbook
- Soil Survey Manual
- Web Soil Survey
- Conservation Practice Job Sheets