



Event Area Career/Leadership Development Event Soil Practicum

Created: 2024

1. What is the soil map scale of the Vermont Soil Report AOI if printed in landscape on a 11" x 8.5" sheet?
 - A. 1:18,800
 - B. 1:32,400
 - C. 1:34,700
 - D. 1:50,000
2. How many acres, to the nearest acre, are included on the Vermont Soil Map AOI?
 - A. 4510
 - B. 1314
 - C. 5130
 - D. 1851
3. Special point features from the Map Legend indicate certain things on the map. Which one indicates a sandy spot?
 - A. 
 - B. 
 - C. 
 - D. 
4. Rounded to the nearest acre, how many of acres in the Vermont Map AOI are designated as Fresh Water Marsh?
 - A. 25
 - B. 8
 - C. 7
 - D. 4
5. What dates were the images photographed of the Vermont Soil Map AOI?
 - A. September 10, 2023
 - B. June 18, 2020 – June 20, 2020
 - C. Feb 13, 2020 – Feb 15, 2020
 - D. Aug 13, 2020 – Feb 15, 2020
6. What soil type by soil map unit name comprises the largest acreage observed in the Vermont Addison County Map AOI?
 - A. Vergennes clay, 2 to 6% slopes
 - B. Swanton fine sandy loam
 - C. Cogswell clay
 - D. Covington and Panton silty clays
7. On the Vermont Farmland classification map, some are designated as "Prime Farmland, if drained." How many acres (rounded to the nearest acre) are identified as "Prime Farmland, if drained"?
 - A. 372
 - B. 437
 - C. 100
 - D. 29

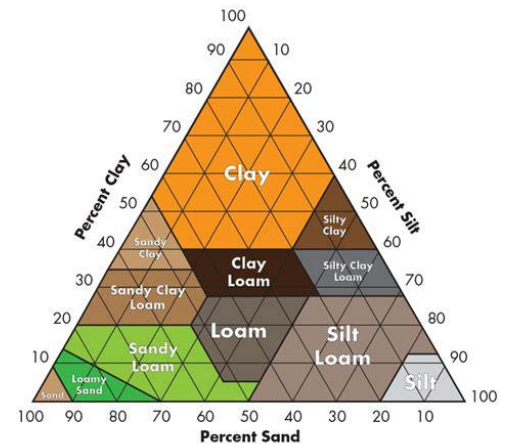
8. How many acres (rounded to the nearest acre) have a Hydric Rating of 95 on the Vermont AOI?
 - A. 769
 - B. 372
 - C. 1851
 - D. 1142
9. The Vermont AOI Soil Report provides information about Soil pH Rating for each Map Unit name. What the Map Unit Name has the pH rating of 5.8?
 - A. Adams loamy sand
 - B. Berkshire and Marlow Soils
 - C. Melrose fine sandy loam
 - D. Swanton fine sandy loam
10. What is the Frost Free Days for the Adams loamy sand, 8 to 15% slopes?"
 - A. 135 days
 - B. 150 days
 - C. 125 days
 - D. 90 days
11. What soil unit having a Prime Farmland Classification has a Cation-Exchange Capacity (CEC) of 13.4?
 - A. Elmwood fine sandy loam
 - B. Amenia stony loam
 - C. Adams loamy sand
 - D. Berkshire and Marlow soils
12. What would a group of soils that are similar in texture and profile and being at the finest level of soil classification be called?
 - A. Soil Class
 - B. Soil Map Unit
 - C. Soil Group
 - D. Soil Series
13. World-wide soils have been classified into soil orders (Soil Taxonomy). How many soil orders are recognized in the system of taxonomic soil classification (SSSA Soil Types)?
 - A. 3
 - B. 15
 - C. 12
 - D. 9
14. Which soil might have the lowest Cation Exchange Capacity (CEC)?
 - A. Sand
 - B. Clay
 - C. Clay Loam
 - D. Silt Loam

15. Using a soil texture triangle, what type of soil has 30% clay, 30% silt, and 40% sand?

- A. Loam
- B. Silt Loam
- C. Clay
- D. Clay Loam

16. Using the soil texture triangle, select the correct % components for a Silt Loam soil.

- A. 35% clay, 35% silt, 30% sand
- B. 15% clay, 65% silt, 20% sand
- C. 10% clay, 30% silt, 60% sand
- D. 20% clay, 40% silt, 40% sand

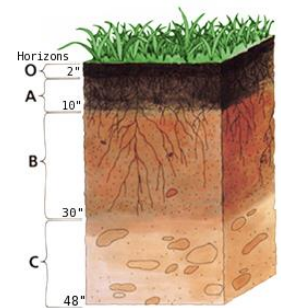


17. Soil consists of four major components being mineral, organic matter, air, and water. In an ideal soil, which component makes up the largest portion?

- A. air
- B. water
- C. mineral
- D. organic matter

18. The soil profile is made up of horizons. In the example there are 4 horizons. What is the A horizon called?

- A. Topsoil
- B. Subsoil
- C. Parent material
- D. Substratum



19. Field capacity is the point where the soil water holding capacity has reached its maximum. What soil attribute has the greater water holding capacity?

- A. soils with large particle size
- B. soils without clay particles
- C. deep sandy soils
- D. particles with large surface area

20. Soil structure has been identified as granular, blocky, platy, wedge, prismatic, and columnar. Which one is an example of a compacted soil?

- A. Blocky
- B. Platy
- C. Granular
- D. Prismatic

21. Soil developed by wind are considered wind-blown. What is the designation for wind-blown soils?

- A. Loess
- B. Clay
- C. Sand
- D. Dust

22. There are many types of irrigation systems used for agricultural crops. Of these systems, which one contributes most to leaching of nutrients in the soil profile?
- A. Drip irrigation
 - B. Hand line irrigation
 - C. Surface irrigation
 - D. Pivot irrigation
23. There are two key characteristics that help to determine overall soil physical properties. What are these key properties?
- A. Aggregates and Organic Matter
 - B. Texture and Structure
 - C. Water content and percent Silt
 - D. Water and air
24. Soil bulk density is measured in g/cm^3 by soil laboratories. As soils becomes compacted, how does that affect soil density?
- A. Soil density is not affected by compaction
 - B. Decrease the g/cm^3
 - C. Does not change g/cm^3
 - D. Increase the g/cm^3
25. The Soil Taxonomy Orders list the major soil orders of the World. One soil order contains soils commonly called bogs, moors, peatlands, muskegs, fens, or peats and mucks. What soil order is this?
- A. Histosol
 - B. Ultisol
 - C. Entisol
 - D. Gelisol