



Event Area Career/Leadership Development Event

Created: Aug 9, 2021

SOILS PRACTICUM

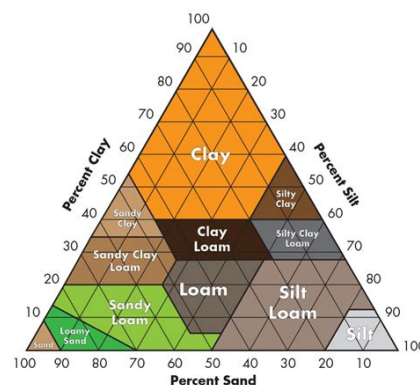
1. World-wide, soils have been classified into soil orders or types (Soil Taxonomy). How many soil types are recognized in the system of taxonomic soil classification (SSSA Soil Types)?
 - A. 3
 - B. 12
 - C. 14
 - D. 6
2. What soil type comprises the greatest area of the earth's glacier-free land surface?
 - A. Aridisols
 - B. Oxisols
 - C. Inceptisols
 - D. Entisols
3. One soil type has a high amount of clay and shrinks and swells at dramatic rates causing huge cracks in the soil when dry. They are not good for roads and buildings but are highly fertile. What soil type is this?
 - A. Vertisols
 - B. Ultisols
 - C. Entisols
 - D. Gelisols
4. Soil formation factors consist of 5 identified items. What are the factors listed by the USDA NRCS?
 - A. Wind, water, heat, freeze, and time
 - B. Parent material, climate, topography, biological activity, and time
 - C. Glaciers, flooding, climate, biological activity, and parent material
 - D. Flooding, wind erosion, sediment deposition, climate, and plant biology
5. The letter R is used in some soil profile descriptions. What does the R stand for?
 - A. Residuum
 - B. Restriction layer
 - C. Rock layer
 - D. Volcanic ash layer

6. Using a soil texture triangle, what type of soil has 20% clay, 60% silt, and 20% sand.

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

7. Soil "A" has 45% clay, 45% silt, and 10% sand. Soil "B" has 10% clay, 30% silt, and 60% sand. Comparing the 2 soils, Soil "A" will:

A. suffer from dry weather first
B. not be good for crops
C. have a grainy texture
D. hold moisture longer

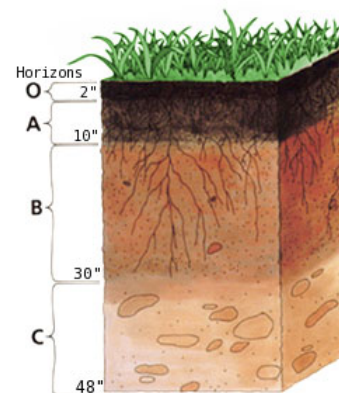


8. As an agronomist a farmer has ask you to evaluate a field to know what texture it is. You get a sample of soil and press it between thumb and forefinger, and it is grainy and does not make a ribbon. What would be your evaluation?

A. It is high in clay
B. It is a silt clay loam
C. It is a coarse sandy loam
D. It will work for building a pond

9. A soil profile is made up of horizons. In the example there are 4 horizons. What is the name of the major horizon B?

A. Subsoil
B. Subsurface
C. Substratum
D. Eluviation



10. The soils of the Bedford County Virginia AOI are comprised of how many General Soil Map Units?

A. 5
B. 8
C. 10
D. 13

11. Rounded to the nearest acre, how many acres of the 1,159.9 in the AOI are designated as Oak Level soil?

A. 12
B. 72
C. 107
D. 73

12. What soil type by soil map unit name comprises the largest acreage observed in the AOI?

A. Spriggs
B. Minnieville
C. Codorus
D. Clifford

13. What is the map scale of the printed map of the AOI of Bedford County Virginia?
 - A. 1:12,500
 - B. 1:15,600
 - C. 1:24,000
 - D. 1:15,600 feet
14. On the printed soil classification map for Prime Farmland classification, how many acres (rounded to the nearest acre) are identified as prime farmland?
 - A. 506
 - B. 529
 - C. 325
 - D. 404
15. What soil map units are listed as "Not prime farmland"?
 - A. 2xx76
 - B. 2xx6c and 2xx6q
 - C. 2xx5y
 - D. 2xx6c, 2xx6q, 2xx6r, and 2xx76
16. On the AOI map "Depth to Watertable," which soil units are listed less than 200 cm and what is the % of the acreage?
 - A. 2xx76, 0.0%
 - B. 2xx68, 1.0%
 - C. 2xx5y and 2xx68, 2.9%
 - D. 2xx5y, 1.9%
17. What dates were the images photographed of the Bedford County Virginia AOI?
 - A. June 3, 2020 and November 12, 2017
 - B. November 12, 2017 and March 3, 2011
 - C. November 12, 2011 and March 26, 2017
 - D. June 3, 2017 and March 26, 2020
18. Special point features from the Map Legend indicate certain things on the map. Which one indicates a sinkhole?
 - A. 
 - B. 
 - C. 
 - D. 
19. The AOI soil map units on the Bedford County Soil Report list the soil texture. Which soil has the highest clay content?
 - A. Poplar Forest
 - B. Oak Level
 - C. Minnieville
 - D. Codorus

20. The 2vy6s Clifford sandy loam, what is the depth to restrictive layer?
- A. 6-42 inches
 - B. 42-56 inches
 - C. more than 80 inches
 - D. more than 56 inches but less than 80 inches
21. What is the available water capacity of the Caseville fine sandy loam?
- A. low about 3.5 inches
 - B. Low about 5.4 inches
 - C. High about 9.6 inches
 - D. Moderate about 7.4 inches
22. Which soil type from the AOI is listed as Flood plains landform?
- A. Devotion
 - B. Wintergreen
 - C. Spriggs
 - D. Codorus
23. In the AOI, what special feature is identified on the map?
- A. Wet spot
 - B. Clay spot
 - C. Other
 - D. Landfill
24. All of the following are given as restrictive features for dwellings with basements for the mapping unit 2xx6q EXCEPT:
- A. Depth to hard bedrock
 - B. Flooding
 - C. Depth to soft bedrock
 - D. Slope
25. In the AOI of the Bedford County soil mapping unit, one soil is listed as “High” for Susceptibility to Compaction. Which soil unit is it?
- A. 2xx74
 - B. 2xx6b
 - C. 2xx68
 - D. 2xx71