

2013 Soil Test

Site Specific Questions (#1 - #7)

1. One of the most important soil characteristics affecting plant growth is the rooting zone of the topsoil. What is the depth of topsoil in the soil pit?
 - a. 0 to 2 inches
 - b. 2 to 4 inches
 - c. 4 to 10 inches
 - d. 10 to 15 inches

2. Structure of the soil directly affects the ability of a plant to move and filter water throughout the soil. What is the structure of the surface horizon in the soil pit?
 - a. Massive
 - b. Single grained
 - c. Blocky
 - d. Granular

3. The solum is the upper part of the soil profile, (above the C horizon), in which the processes of soil formation are active. What is the depth of the solum in the pit?
 - a. 0 to 10 inches
 - b. 10 to 20 inches
 - c. 20 to 30 inches
 - d. Greater than 30 inches or below bottom of the pit

4. What is the surface texture of the soil in the pit?
 - a. Clay
 - b. Sandy loam
 - c. Silty clay
 - d. Silt loam

5. What is the structure of the soil in the pit between 10 to 20 inches?
 - a. Blocky
 - b. Prismatic
 - c. Granular
 - d. Single-grained

6. Redoximorphic depletions (gray mottles) are used to indicate the presence of a water table. At what depth do redoximorphic depletions occur in the soil pit?
 - a. 0 to 10 inches
 - b. 10 to 20 inches
 - c. 20 to 30 inches
 - d. Greater than 30 inches or below the bottom of the pit

7. What is the texture class of the soil in the pit between 10 to 20 inches?
 - a. Silt loam
 - b. Sandy loam
 - c. Sandy clay
 - d. Silty clay

General Questions (#8 - #25)

8. One key concept of the Web Soil Survey is the AOI. In regard to Web Soil Survey, what does the acronym AOI stand for?
 - a. Availability of Information
 - b. Automated Optical Inspection
 - c. Automatic Operator Interface
 - d. Area of Interest

9. The soil Glynwood silt loam, 2 to 6 percent slopes is represented by what map unit symbol?

- a. BoB
- b. GwB
- c. Gwg5C2
- d. Pm

10. There are 12 different soil texture classes recognized in the USDA classification system. Which of the following is not a recognized texture class?

- a. Silt Loam
- b. Sandy Loam
- c. Loamy Sand
- d. Loamy Silt

11. Geographic information systems (GIS) have been a major advancement to the soil survey program, but also can cause misunderstanding of the detail in mapping and accuracy of the soil line placement. Soil survey maps were intended to be viewed at the scale that they were mapped at. What scale was the soil survey of Mercer County mapped on?

- a. 1:4,420
- b. 1:8,000
- c. 1:15,840
- d. 1:16,000

12. The Custom Soil Resource Report for Mercer County, Ohio contains a soil map with an AOI encompassing the Envirothon site. Which map unit comprises the largest percentage of this AOI?

- a. Blount silt loam
- b. Glynwood silt loam
- c. Glynwood clay loam
- d. Pewamo silty clay loam

13. The Custom Soil Resource Report for Mercer County, Ohio contains a Dwellings and Small Commercial Building Report. The Rating Class for Small commercial buildings on Blount silt loam is given as "Somewhat Limited". What is the most limiting feature of the Blount silt loam soil for Small commercial buildings?

- a. Shrink-swell
- b. Slope
- c. Depth to saturated zone
- d. Ponding

14. According to the Land Capability Classification in the Custom Soil Resource Report, which map unit has "severe limitations that restrict the choice of plants or that require special conservation practices, or both"?

- a. BoB
- b. GwB
- c. Gwg5C2
- d. Pm