



Agronomy Career Development Event

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Questions 1 through 25 refer to the either an Area of Interest (AOI) in Steuben County, Indiana, tabular or descriptive data that relates to map unit designations (soil types) of soils found in the Area of Interest (AOI), or metadata (i.e., descriptions of the data that is presented). Based on these resources, answer the following questions.

SOIL PRACTICUM

1. Which of the following Map Unit Symbols represents a miscellaneous area?

- A. Ry
- B. Mm
- C. BoB
- D. **W**

2. What type of special point feature is identified in the Area of Interest (AOI)?

- A. Saline Spot
- B. Very Stony Spot
- C. **Severely Eroded Spot**
- D. Sodic Spot

3. The soil survey for this area of interest was originally mapped at what scale?

- A. **1:20,000**
- B. 1:1
- C. 1:15,800
- D. 2,000:1

4. Which of the following map units DO NOT contain a named soil component that is rated as hydric?

- A. Mc
- B. **CaC**
- C. MhC
- D. Ed

5. Which soil is most suited for building a house with a basement?

- A. **Kosciusko**
- B. Martisco
- C. Edwards
- D. Shoals

6. Based on the available water capacity of the top 6" ONLY, which soil would likely be most drouthy? Evaluate only the named soil(s) in a mapping unit to answer this question.
- A. **Riverdale**
 - B. Millgrove
 - C. Palms
 - D. Cohoctah
7. Millgrove soils, as described in this report, have limitations for use with septic tank absorption fields due to all of these characteristics EXCEPT:
- A. Seepage
 - B. Depth to saturation
 - C. Ponding
 - D. **Slope**
8. All of the following are given as restrictive features for dwellings with basements for the mapping unit Sh EXCEPT:
- A. Depth to saturated zone
 - B. Flooding
 - C. **Depth to hard bedrock**
 - D. Shrink-swell
9. How many soil orders are recognized in the U.S. system of taxonomic soil classification (Soil Taxonomy)?
- A. 3
 - B. **12**
 - C. 14
 - D. 6
10. All of the following landforms may be present in the area of interest (AOI) EXCEPT:
- A. Flood plains
 - B. Outwash plains
 - C. Depressions
 - D. **Channers**
11. Which of the following mapping units are considered prime farmland?
- A. KoC
 - B. W
 - C. **KoB**
 - D. CaD2

12. Which features CAN NOT be found within the area of interest (AOI)?

- A. **Rails**
- B. Streams and Canals
- C. Local Roads
- D. Soil Map Unit Polygons

13. The chemical property of soil salinity can have an effect on:

- A. Crop production
- B. Corrosion of steel and concrete
- C. Stability when used as a construction material
- D. **All of the above**

14. Soil reaction is measured by:

- A. **pH**
- B. Inches
- C. Mmhos
- D. Horizons

15. Within the area of interest (AOI), the soils Eel, Shoals, and Sloan are generally found on which landform?

- A. Eskers
- B. **Flood plains**
- C. Drumlins
- D. Rises

16. Within the Hw soil mapping unit, which soil would you expect to yield the best if corn were planted?

- A. Edwards
- B. Udorthents
- C. Palms
- D. **Houghton**

17. All of the following soils are classified as Hapludalfs EXCEPT:

- A. Miami
- B. **Palms**
- C. Riverdale
- D. Kosciusko

18. An important engineering property of soils is the percent of material which passes a certain sieve. Which sieve has the SMALLEST opening?

- A. **No. 200**
- B. No. 10
- C. No. 40
- D. No. 4

19. Desirable trees to manage for a BoB mapping unit include all of the following EXCEPT:

- A. **Eastern cottonwood**
- B. Scarlet oak
- C. Shagbark hickory
- D. Sugar maple

20. The most likely parent material for a Co mapping unit is:

- A. Dense glacial till
- B. Loess
- C. **Alluvium**
- D. Glaciolacustrine deposits

21. Of the following features of Eel soils, which is the LEAST likely to limit the use for septic tank absorption fields?

- A. Seepage of bottom layer
- B. **Slow water movement**
- C. Flooding
- D. Depth to saturated zone

22. Which soil tends to have the highest CEC in the surface horizon?

- A. Miami
- B. Shoals
- C. Sloan
- D. **Edwards**

23. "Soils within a family that have horizons similar in color, texture, structure, reaction, consistence, mineral and chemical composition, and arrangement in the profile" is a definition of a(n):

- A. Catena
- B. Species
- C. **Series**
- D. Toposequence

24. All of the following are considered limitations for use as pond reservoir areas for soils within the area of interest (AOI) EXCEPT:

- A. **Piping**
- B. Seepage
- C. Slope
- D. Carbonate content

25. Which mapping unit has the highest potential as a source of sand?

- A. Hw
- B. MhC
- C. Mm
- D. **KsC**