



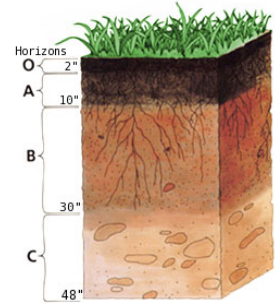
Event Area Career/Leadership Development Event

Created: Dec-22

Instructions for completion of exam

SOIL PRACTICUM

1. A soil profile is made up of horizons. In the example there are 4 horizons. What is the name of the major horizon A?
 - A. Subsoil
 - B. Subsurface
 - C. Topsoil
 - D. Substratum
2. Soil structure is defined by the way individual particles of sand, silt, and clay are assembled. Single particles when assembled appear as larger particles. What are these larger particles called?
 - A. Aggregates
 - B. Clumps
 - C. Granular
 - D. Rocks
3. 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. 8
 - C. 14
 - D. 12
4. What soil order is found in the coldest regions of the world?
 - A. Aridisols
 - B. Gelisols
 - C. Oxisols
 - D. Entisols
5. One soil order is comprised mainly of organic materials of at least 20 to 30% by weight. What soil type is this?
 - A. Histosols
 - B. Ultisols
 - C. Entisols
 - D. Gelisols
6. Which soil would be the most likely to resist erosion by water?
 - A. Sandy Loam
 - B. Clay
 - C. Loam
 - D. Silt Loam

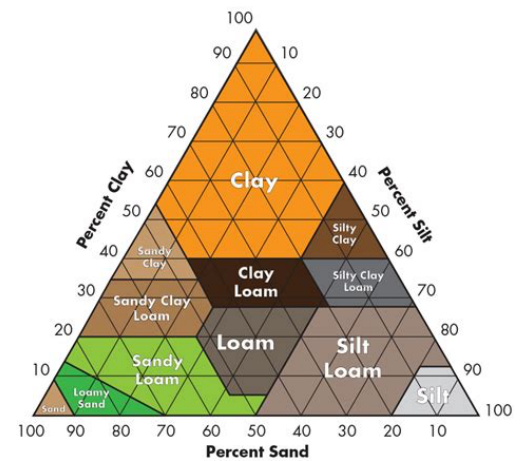


7. Using a soil texture triangle, what type of soil has 20% clay, 60% silt, and 20% sand?

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

8. Using the Soil Texture Triangle, select the correct % components for a Clay Loam soil.

A. 35% clay, 35% silt, 30% sand
B. 35% clay, 50% silt, 15% sand
C. 10% clay, 40% silt, 50% sand
D. 20% clay, 60% silt, 20% sand



9. The soil consists of four major components i.e., mineral, organic matter, soil air and soil water. In an ideal soil, which component makes up the largest portion?
- A. air
B. water
C. mineral
D. organic matter
10. The soils of the Walla Walla County Washington AOI are comprised of how many General Soil Map Units?
- A. 21
B. 22
C. 11
D. 13
11. What soil component is present in the AOI with a percentage of 0.2% in the AOI and is present for only 8.5 acres?
- A. Pedigo silt loam
B. Riverwash
C. Basalt rockland, undulating to hilly
D. Huddleston silt loam
12. Rounded to the nearest acre, how many acres of the 3930.1 in the AOI are designated as Walla Walla Silt Loam, 8-30% slopes, eroded?
- A. 12
B. 461
C. 27
D. 23
13. What soil type by soil map unit name comprises the largest acreage observed in the AOI?
- A. Walla Walla Silt Loams, 8-30% slopes
B. Catherine Silt Loam, 0-3% slopes
C. Athena Silt Loam, 8-30% slopes
D. Walla Walla Silt Loam, 0-8% slope

14. What is the soil map scale of the Walla Walla Soil AOI 2022 if printed in landscape on a 11" x 8.5" sheet?
- A. 1:12,500
 - B. 1:32,400
 - C. 1:31,700
 - D. 1:15,600 feet
15. On the printed soil classification map for Prime Farmland classification. How many acres (rounded to the nearest acre) are identified as prime farmland?
- A. 2355
 - B. 2709
 - C. 3369
 - D. 3722
16. What soil map units are listed having greater than 30% slope and not prime farmland?
- A. AtE, WaE, AtD2
 - B. WaE2, WaF, WaD
 - C. AtE, WaF, WaD2, WaD2
 - D. AtE, WaE, WaE2, WaF, WvF2
17. On the Walla Walla Soil AOI 2022 map "Dwellings with Basements," how many acres to the nearest whole acre show flooding?
- A. 464
 - B. 364
 - C. 264
 - D. 808
18. What dates were the images photographed of the Walla Walla County Washington AOI 2022?
- A. June 3, 2020 and November 12, 2017
 - B. November 12, 2017 and March 3, 2011
 - C. July 22, 2020 – July 25, 2020
 - D. August 31, 2021
19. Special point features from the Map Legend indicate certain things on the map. Which one indicates a sinkhole?
- A. 
 - B. 
 - C. 
 - D. 
20. The Walla Walla County AOI Soil Report list the soil profile for each soil map unit. Which soils have layers of silty clay loam?
- A. SoA, PoA, PmA
 - B. PmA, WvF2
 - C. PoA, WaB
 - D. SoA, WaF, PkA

21. How many acres, to the nearest acre, are included on the Walla Walla Washington AOI?
- A. 2068
 - B. 3930
 - C. 1469
 - D. 3857
22. What is the parent material for Ahtanum silt loam soils, 0 to 3 percent slopes?
- A. Loess and pumice alluvium
 - B. Loess
 - C. Loess alluvium
 - D. Loess colluvium and residuum weathered from basalt
23. What is the available water supply of the Walla Walla silt loam, 0 to 8 percent slopes (0 to 60 inches)?
- A. low about 3.5 inches
 - B. Very high about 13.9 inches
 - C. High about 11.3 inches
 - D. Very high about 13.3 inches
24. How many acres have a “Hydric Soil Rating?” and what are the soil map units?
- A. 353.8, CaE
 - B. 464.4, AmA and CaE
 - C. 327.1, HmA and HnA
 - D. 110.6, AmA
25. Some soils have restrictive layers. The Walla Walla County Washington AOI have 3 soils showing restrictive layers. What are the soil unit and the depths to the restrictive layers?
- A. AmA 20-40 cm, PkA 20-40 cm, CaE 200 cm
 - B. AmA 86 cm, BcF 0 cm, PkA 76 cm
 - C. AmA 86 in, BcF 0 in, PkA 76 in
 - D. PkA 86 cm, AmA 20-40 cm, BcF 0 cm