

2017 Soils Practicum For Event Use Only

Questions 1 through 25 refer to the Custom Soil Resource Report for an area of Panola County, Texas and lab data that relate to map unit designations (soil types) of soils found in the Area of Interest (AOI). Based on these resources, answer the following questions.

- 1.) What soil component is present in the AOI in the least percentage of the AOI and is present for only about ¼ acre?
 - a.) Catuna
 - b.) Timpson
 - c.) Mantachie
 - d.) Metcalf

- 2.) Rounded to the nearest acre, how many acres of the 1,032.9 in the AOI are designated as Eastwood?
 - a.) 226
 - b.) 285
 - c.) 255
 - d.) 2

- 3.) Which soil type (map unit name) dominates the acreage in the AOI?
 - a.) ScxB
 - b.) EasE
 - c.) WvtA
 - d.) Mr

- 4.) Which soil component of the various map unit names dominates the acreage observed in the AOI?
 - a.) Eastwood fine sandy loam and similar soils
 - b.) Scottsville and similar soils
 - c.) Latex and similar soils
 - d.) Wrightsville and similar soils

- 5.) The Custom Soil Resource Report map is printed in landscape format on a 11" x 8.5" sheet of paper so what is the Map Scale?
 - a.) 1:15,100
 - b.) 1:25,000
 - c.) 1:1,200 meters
 - d.) 1:8,000 feet

- 6.) If we compare a map of South Dakota to one from West Virginia what would be the major difference?
 - a.) West Virginia would have fewer soil types listed.
 - b.) South Dakota has no survey.
 - c.) No map exists for West Virginia.
 - d.) West Virginia would have few roads running in straight lines.

- 7.) What is the parent material of the Marietta fine sandy loam soil?
- a.) Clayey marine deposits
 - b.) Loamy fluviomarine deposits over clayey fluviomarine deposits
 - c.) Loamy alluvium
 - d.) Loamy alluvium of the Holocene age
- 8.) For the Latex component of the Scottsville-Latex complex map unit designation, what is the name of the ecological site?
- a.) Loamy Bottomland
 - b.) Clayey Upland
 - c.) Terrace
 - d.) Loamy Upland
- 9.) Which soil map units are classified as farmland of statewide importance?
- a.) EasC and WvtA
 - b.) Only WvtA
 - c.) Mr and Mc
 - d.) ScxB
- 10.) Which soil component is the only one listed as being in hydrologic soil group C?
- a.) Latex
 - b.) Marietta
 - c.) Wrightsville
 - d.) Timpson
- 11.) Which soil component is the only one listed as being in hydrologic soil group B?
- a.) Eastwood
 - b.) Scottsville
 - c.) Mantachie
 - d.) Timpson
- 12.) Which soil component has developed into a wet terrace ecological site?
- a.) Timpson
 - b.) Wrightsville
 - c.) Catuna
 - d.) Nahatche
- 13.) Which soil components have developed into loamy bottomland based on ecological sites?
- a.) EasE
 - b.) ScxB
 - c.) Mr and Nc
 - d.) EasC and WvtA

- 14.) For the Nahatche complex (Nc) what is the minimum annual water table depth?
- a.) 38 cm
 - b.) 44 cm
 - c.) 31 cm
 - d.) 14 cm
- 15.) For the EasC or Eastwood very fine sandy loam soil of 1 to 5% slopes, how much water can be stored in the surface 0-100 cm layer?
- a.) 16.66 cm
 - b.) 15.56 cm
 - c.) 17.04 cm
 - d.) 16.38 cm
- 16.) Of the six soil map units named, which one has the highest proportion of hydric soils?
- a.) Nahatche (Nc) complex
 - b.) Marietta fine sandy loam (Mr)
 - c.) Wrightsville-Timppson complex (WvtA)
 - d.) Scottsville-Latex Complex (ScxB)
- 17.) For the Eastwood component of the Eastwood very fine sandy loam soil (EasC), what is the hydraulic conductivity in mm/hr for the Bt horizon at a depth of 20 cm to 117 cm?
- a.) 100.8
 - b.) 9.72
 - c.) 3.312
 - d.) 0.756
- 18.) For the Metcalf component of the Eastwood very fine sandy loam soil with a 1 to 5% slope, what is the bulk density in g/cm² for the E horizon (depth of 9 to 25 cm)?
- a.) 1.48
 - b.) 1.90
 - c.) 1.58
 - d.) 1.63
- 19.) What is the percentage of clay in the Bt horizon (31 to 49 cm depth) of the Scottsville component of the Scottsville-Latex complex (ScxB)?
- a.) 40
 - b.) 22.5
 - c.) 50
 - d.) 7
- 20.) What is the percentage of soil organic matter in the Ag horizon (0 to 7 cm depth) of the Latuna component of the Scottsville-Latex complex (ScxB)?
- a.) 2.25
 - b.) 1.25
 - c.) 0.75
 - d.) 0.55

- 21.) For the Eastwood very fine sandy loam soil (EasC) with 1 to 5% slope, how many soil profile layers are named before one reaches the C horizon at a depth of 130 cm?
- 11
 - 5
 - 8
 - 9
- 22.) **Using the graphic representation** for the Scottsville component of the Scottsville-Latex complex (ScxB) with 0 to 2% slopes, the clay content increases with increasing depth in the soil but begins to decline at what depth?
- ~75 cm
 - ~150 cm
 - ~0 cm
 - ~125 cm
- 23.) Which of the following map legend symbols represents the presence of perennial water?
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- 24.) **Using the graphic representation** for the sand content of the Scottsville component of the Scottsville-Latex complex (ScxB), between what soil depths is the sand content lowest?
- 150 to 200 cm
 - ~85 to 150 cm
 - ~35 to 85 cm
 - 0 to 35 cm
- 25.) For the map unit designations, which one is poorly drained?
- Mr
 - EasC
 - ScxB
 - WvtA