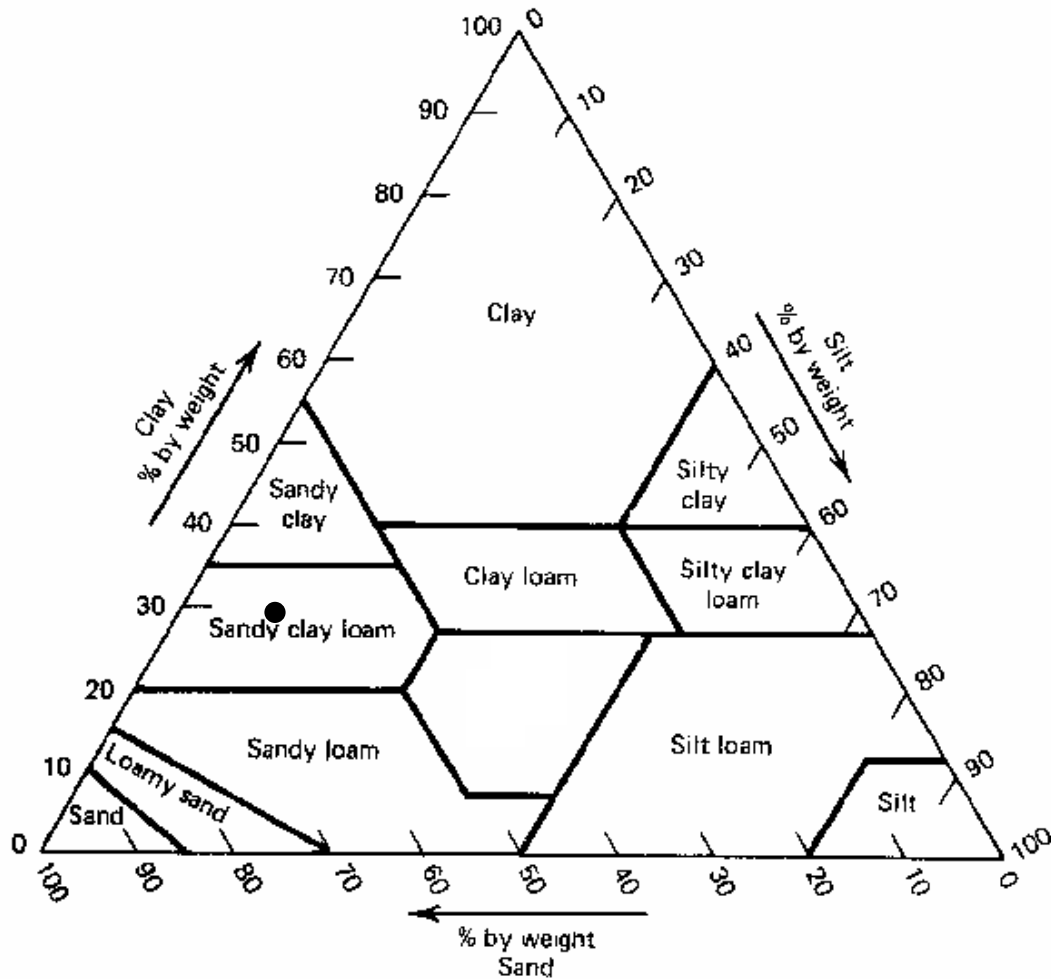


FOR 100 Worksheet: Chapter 5 – Forest Soils



Use the soil textural triangle above (Fig. 5.4 in your text) to answer the following three questions:

1) What is the textural class for a soil containing 30% sand, 20% silt, and 50% clay?

2) What is the textural class of a soil containing 65% sand, 20% silt, and 15% clay?

3) What is the particle-size composition of the sandy clay loam soil represented by the dot on the texture triangle?

_____ % sand, _____ % silt, _____ % clay

4) Rank the above three soils from best to poorest water drainage.

Soil # _____ Soil# _____ Soil # _____
 Best Intermediate Worst

5) A 2-dimensional side view of a soil is called a _____.

MULTIPLE CHOICE: Circle the ONE best response.

6) Of the following, which are soil-forming factors?

- A. Climate
- B. Parent material
- C. Soil organisms
- D. Topography
- E. All of the above

7) Soil organic matter tends to

- A. increase cation exchange capacity
- B. improve porosity and aeration
- C. provide a source of plant nutrients
- D. increase moisture-holding capacity
- E. all of the above

8) Soil survey reports can be used to

- A. match tree species for planting to soil type
- B. evaluate impacts of proposed land uses
- C. locate and design roads
- D. match timber harvest methods to soil conditions
- E. all of the above

9) Which of the following soil properties tend to make essential nutrients available for plant growth?

- A. high cation exchange capacity
- B. high organic matter content
- C. moderate soil pH (for most plants)
- D. high clay content
- E. all of the above