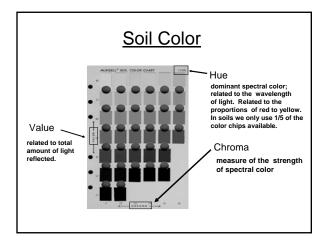


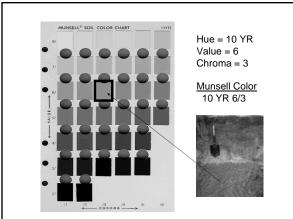
Physical Criteria for Characterizing Horizons

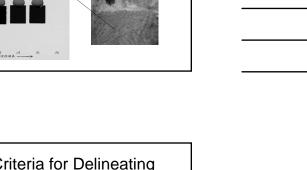
Color

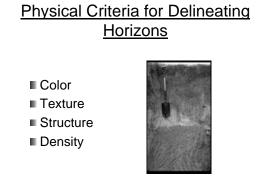
- Texture
- Structure
- Density

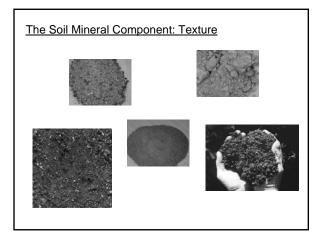












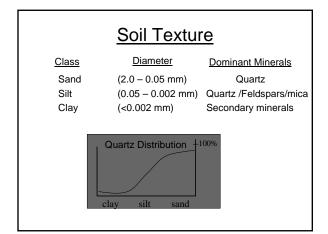


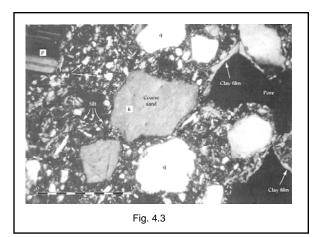
Soil Texture

Soil texture refers to the relative amounts of three distinct size separates comprising the soil mineral component.

Sizes classes of particles

Sand Silt Clay

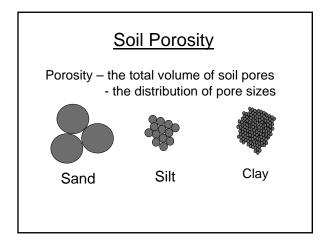


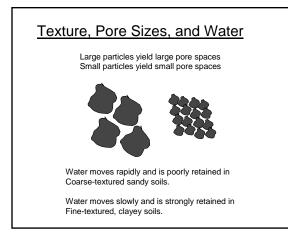


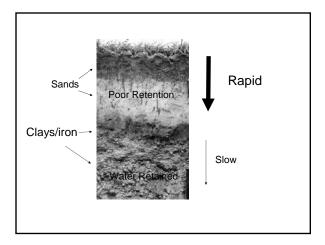
Importance of Soil Texture

(Distribution of particle sizes)

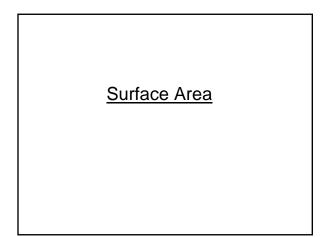
Soil Porosity Particle Surface Area

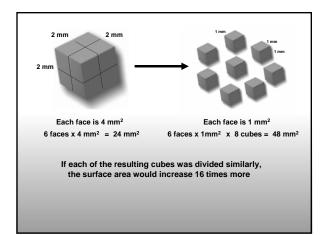




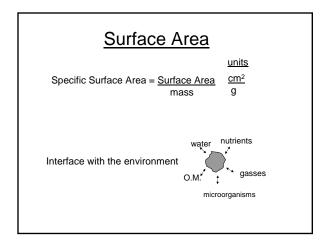




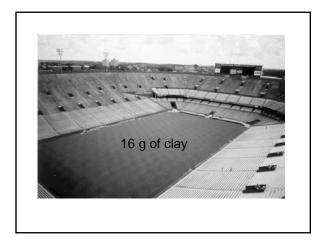






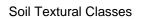


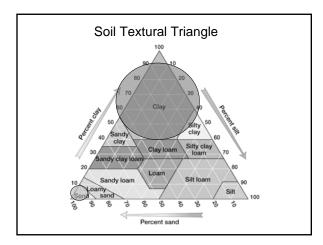




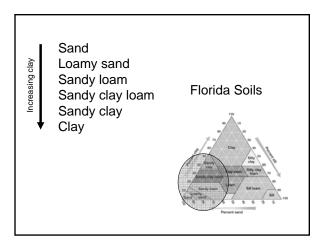


<u>100 g soil</u>	
Soil A	Soil B
95 g sand	90 g sand
4 g silt	2 g silt
1 g clay	8 g clay
95 g sand x 30 g/cm ² = 2850 cm ²	90 g sand x 30 g/cm ² = 2700 cm ²
4 g silt x 1500 g/cm ² = 6000 cm ²	2 g silt x 1500 g/cm ² = 3000 cm ²
1 g clay x 3 M g/cm ² = 3 M cm ²	8 g clay x 3 M g/cm ² = 24 M cm ²
Total = 3,008,850 cm ²	Total = 24,005,700 cm ²

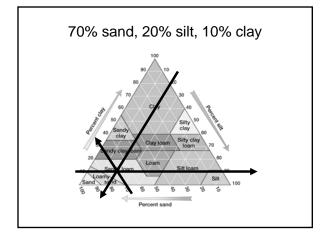


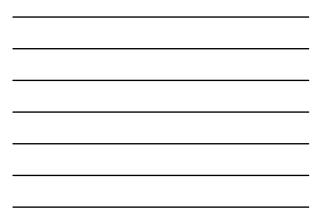


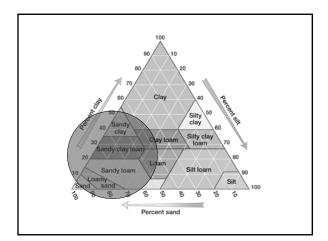














Measuring Soil Texture

Texture-by-Feel

Relative amounts of 3 soil separates: Sand, Silt, and Clay Gritty smooth plastic





