

Region IV Collegiate Soil Judging Contest  
Oklahoma State University  
Nov. 8-9 2012

Site \_\_\_\_\_  
 No. of Horizons \_\_\_\_\_  
 Depth to be described \_\_\_\_\_ cm  
 Nail in 3rd horizon @ \_\_\_\_\_ cm

Contestant ID \_\_\_\_\_

**A. Morphology**

Horizon						Texture		Color			Structure		Redox Features		Eff	Score
Pre.	Master	Sub	No.	Lower Depth	Bnd Dist	USDA Class	Clay Content	Hue	Val	Chr	Grade	Shape	Abund.	Con/Dep		
1	3	2	1	3	1	4	2	2	2	2	3	3	2	2	2	35

**B. Soil Profile Characteristics**

<p><u>Infiltration Rate (5)</u></p> <p>___ Rapid</p> <p>___ Medium</p> <p>___ Slow</p>	<p><u>Soil Wetness Class (5)</u></p> <p>___ Very Shallow &lt;25 cm</p> <p>___ Shallow 25 to &lt;50 cm</p> <p>___ Moderately Deep 50 to &lt;100 cm</p> <p>___ Deep 100 to &lt;150 cm</p> <p>___ Very Deep ≥150 cm</p>	<p><u>Effective Soil Depth (5)</u></p> <p>___ Very Shallow &lt;25 cm</p> <p>___ Shallow 25 to &lt;50 cm</p> <p>___ Moderately Deep 50 to &lt;100 cm</p> <p>___ Deep 100 to &lt;150 cm</p> <p>___ Very Deep ≥150 cm</p>	<p>Part A _____</p> <p>Part B _____</p> <p>Part C _____</p> <p>Part D _____</p>
<p><u>Hydraulic Conductivity (5)</u></p>	<p><u>Water Retention Difference (5)</u></p>		

Landform (5)

- Depression
- Floodplain
- Stream Terrace
- Uplands
- Dune

Site Position (5)

- Summit
- Shoulder
- Backslope
- Footslope

Parent Material (5 each)

- Alluvium
- Colluvium
- Aeolian
- Residuum

Slope Gradient (5)

- 0-1%
- 1-3%
- 3-5%
- 5-8%
- 8-12%
- ≥12%

Surface Runoff (5)

- Ponded
- Very Slow
- Slow
- Medium
- Rapid
- Very Rapid

Soil Erosion Potential (5)

- Very Low
- Low
- Medium
- High
- Very High

D. Soil Classification

Epipedons (5)

- Mollic
- Ochric
- Umbric
- None

Subsurface Horizons (5 each)

- Argillic
- Buried
- Calcic
- Cambic
- Natric
- Gypsic

Other Characteristics (5 each)

- Lithologic Discontinuity
- Lithic Contact
- Paralithic Contact
- Slickenslides
- Lamellae
- Fe/Mn concretions
- Densic Contact

Order (5)

- Alfisols
- Entisols
- Inceptisols
- Mollisols
- Ultisols

Particle-Size Control Section (5)

- Mineral soil surface to root-limiting layer
- 25 cm to root limiting layer
- 25 to 100 cm
- Lower boundary of Ap to root limiting layer
- Lower boundary of Ap to 100 cm
- All of the argillic
- Upper 50 cm of argillic
- Upper boundary of argillic to root limiting layer
- Upper boundary of argillic to 100 cm
- Other

Family Particle-Size Class (5)

- Clayey
- Clayey-skeletal
- Coarse-loamy
- Coarse-silty
- Fine
- Fine-loamy
- Fine-silty
- Fragmental
- Loamy
- Loamy-skeletal
- Sandy
- Sandy-skeletal
- Very-fine

E. Site Interpretations

Dwellings with Basements (10)

- Slight
- Moderate
- Severe

Septic Tank Absorption Field (10)

- Slight
- Moderate
- Severe

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Local Roads and Streets (10)

- Slight
- Moderate
- Severe