

**REGION IV SOIL
JUDGING
TAMU-Kingsville
Kingsville, TX**

Contestant I.D. _____
 Site No. _____
 MLRA _____
 Horizons _____
 Describe to a depth of _____ cm
 Nail in third horizon at _____ cm

Horizon Data

#	OC (%)	pH	BS (%)	SAR
1				
2				
3				
4				
5				
6				

I.	_____	_____
II.	_____	_____
III.	_____	_____
IV.	_____	_____
V.	_____	_____
Total :	_____	_____

I. Soil Morphology

Score: _____

Horizonation				Boundary		Texture				Color			Structure		Effer- vescence	Redox Features		Sco	
Prefix (2)	Master (3)	Sub. (2)	No. (2)	Lower Depth (3)	Dist (2)	Clay % (±) (2)	Clay films (2)	CF Mod. (2)	Class (4)	Hue (2)	Value (2)	Chroma (2)	Grade (2)	Shape (2)	(2)	Con/Dep (2)	Abund (2)	Possi (4C)	

II. Soil Profile Characteristics

Score: _____

Hydraulic Conductivity (10)		Effective Soil Depth (5)	Water Retention Difference (5)	Soil Wetness Class (5)
Surface (5)	Limiting Layer (5)	_____ Very shallow (< 25 cm)	_____ Very low (< 7.50 cm)	_____ Very shallow (< 25 cm)
_____ High	_____ High	_____ Shallow (25 to 49 cm)	_____ Low (7.50 to 14.99 cm)	_____ Shallow (25 to 49 cm)
_____ Moderate	_____ Moderate	_____ Moderately deep (50 to 99 cm)	_____ Medium (15 to 22.49 cm)	_____ Moderately deep (50 to 99 cm)
_____ Low	_____ Low	_____ Deep (100 to 149 cm)	_____ High (22.5 to 29.99 cm)	_____ Deep (100 to 149 cm)
		_____ Very deep (≥ 150 cm)	_____ Very high (≥ 30 cm)	_____ Very deep (≥ 150 cm)

III. Site Characteristics

Score: _____

Parent Material (5 each)	Landform (5)	Slope Gradient (5)	Hill Slope Profile (5)	Surface Runoff (5)	Erosion Potential (5)
<input type="checkbox"/> Aeolian Sands <input type="checkbox"/> Recent Alluvium <input type="checkbox"/> Quaternary Alluvium <input type="checkbox"/> Tertiary Alluvium <input type="checkbox"/> Residuum <input type="checkbox"/> Marine Sediments	<input type="checkbox"/> Depression <input type="checkbox"/> Active Floodplain <input type="checkbox"/> Stream terrace <input type="checkbox"/> Marine terrace <input type="checkbox"/> Uplands	<input type="checkbox"/> 0 to 1 % <input type="checkbox"/> 1 to 3 % <input type="checkbox"/> 3 to 5 % <input type="checkbox"/> 5 to 8 % <input type="checkbox"/> 8 to 12 % <input type="checkbox"/> 12 to 20 % <input type="checkbox"/> > 20 %	<input type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input type="checkbox"/> Backslope <input type="checkbox"/> Footslope <input type="checkbox"/> Toeslope <input type="checkbox"/> None	<input type="checkbox"/> Poned <input type="checkbox"/> Very slow <input type="checkbox"/> Slow <input type="checkbox"/> Medium <input type="checkbox"/> Rapid <input type="checkbox"/> Very rapid	<input type="checkbox"/> Very low <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> Very high

IV. Soil Classification

Score: _____

Epipedon (5)	Subsurface Horizons (5 each)	Other Characteristics (5 each)	Order (5)	Suborder (5)	Great Group (5)	Particle Size Control Section	
<input type="checkbox"/> Mollic <input type="checkbox"/> Umbric <input type="checkbox"/> Ochric <input type="checkbox"/> None	<input type="checkbox"/> Argillic <input type="checkbox"/> Calcic <input type="checkbox"/> Petrocalcic <input type="checkbox"/> Cambic <input type="checkbox"/> Natric <input type="checkbox"/> None	<input type="checkbox"/> Buried <input type="checkbox"/> Fe/Mn concretions <input type="checkbox"/> Lithologic discontinuity <input type="checkbox"/> Lithic contact <input type="checkbox"/> Slickensides	<input type="checkbox"/> Alfisol <input type="checkbox"/> Entisol <input type="checkbox"/> Inceptisol <input type="checkbox"/> Mollisol <input type="checkbox"/> Vertisol	<input type="checkbox"/> Natr <input type="checkbox"/> Aqu <input type="checkbox"/> Fluv <input type="checkbox"/> Orth <input type="checkbox"/> Psamm <input type="checkbox"/> Ust	<input type="checkbox"/> Argi <input type="checkbox"/> Hapl <input type="checkbox"/> Endo <input type="checkbox"/> Psamm <input type="checkbox"/> Quartzi <input type="checkbox"/> Fluv <input type="checkbox"/> Pale <input type="checkbox"/> Ust(i)	Starting depth (2)	Class (2) <input type="checkbox"/> Sandy <input type="checkbox"/> Loamy <input type="checkbox"/> Coarse-Loamy <input type="checkbox"/> Fine-Loamy <input type="checkbox"/> Coarse-Silty <input type="checkbox"/> Fine-Silty <input type="checkbox"/> Clayey <input type="checkbox"/> Fine <input type="checkbox"/> Very-Fine
						Ending depth (2)	

V. Interpretations

Score: _____

Dwellings with Basement (5)	Septic Tank Absorption Field (5)	Local Roads and Streets (5)
<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe
Reason # (2): _____	Reason # (2): _____	Reason # (2): _____