



2021 Region IV  
Collegiate Soil Judging  
Hosted by WTAMU  
Canyon, Texas

Contestant I.D. \_\_\_\_\_  
Site No. \_\_\_\_\_  
No. of Horizons \_\_\_\_\_  
Describe to a depth of \_\_\_\_\_ cm  
Nail in the third horizon at \_\_\_\_\_ cm

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

## I. Soil Morphology

Horizonation				Boundary		Texture				Color			Structure		Moist Consist.	Eff.	Matrix Conc.	Score
Pre-fix (2)	Mas-ter (3)	Sub. (2)	No. (2)	Lower Depth (cm) (3)	Dist (2)	Clay films (2)	Clay % (2)	CF Mod (2)	Class (4)	Hue (2)	Value (2)	Chroma (2)	Grade (2)	Shape (2)	(2)	(2)	(2)	Possible (40)

## II. Soil Hydrology and Profile Characteristics

Part II Score: \_\_\_\_\_

Hydraulic Conductivity (10)		Effective Soil Depth (5)	Water Retention Difference (5)	Soil Wetness Class (5)
<u>Surface</u> (5) ____ High ____ Moderate ____ Low	<u>Limiting Layer</u> (5) ____ High ____ Moderate ____ Low	____ Very shallow (< 25 cm) ____ Shallow (25 to 49.99 cm) ____ Moderately deep (50 to 99.99 cm) ____ Deep (100 to 149.99 cm) ____ Very deep (≥ 150 cm)	____ Very low (< 7.50 cm) ____ Low (7.50 to 14.99 cm) ____ Medium (15 to 22.49 cm) ____ High (22.5 to 29.99 cm) ____ Very high (≥ 30 cm)	____ Very shallow (< 25 cm) ____ Shallow (25 to 49.99 cm) ____ Moderately deep (50 to 99.99 cm) ____ Deep (100 to 149.99 cm) ____ Very deep (≥ 150 cm)

### III. Site Characteristics

Part III Score: \_\_\_\_\_

Parent Material (5 each)	Site Position (5)		Slope Gradient (5)	Surface Runoff (5)	Erosion Potential (5)
<input type="checkbox"/> Alluvium <input type="checkbox"/> Colluvium <input type="checkbox"/> Residuum <input type="checkbox"/> Eolian sand/loam <input type="checkbox"/> Loess <input type="checkbox"/> Lacustrine	<input type="checkbox"/> Depression <input type="checkbox"/> Dune <input type="checkbox"/> Plain <input type="checkbox"/> Playa <input type="checkbox"/> Playa step <input type="checkbox"/> Stream terrace	<input type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input type="checkbox"/> Backslope <input type="checkbox"/> Footslope <input type="checkbox"/> Toeslope <input type="checkbox"/> Floodplain <input type="checkbox"/> None	<input type="checkbox"/> < 1 % <input type="checkbox"/> 1 to 2 % <input type="checkbox"/> 3 to 5 % <input type="checkbox"/> 6 to 8 % <input type="checkbox"/> 9 to 12 %	<input type="checkbox"/> Ponded <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

Part IV Score: \_\_\_\_\_

Epipedon (5)	Subsurface Horizons and Features (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"/> Cambic <input type="checkbox"/> Lithic contact <input type="checkbox"/> Natric <input type="checkbox"/> Paralithic contact <input type="checkbox"/> Petrocalcic <input type="checkbox"/> Salic <input type="checkbox"/> Slickensides <input type="checkbox"/> Vertic properties <input type="checkbox"/> None	<input type="checkbox"/> Alfisol <input type="checkbox"/> Aridisol <input type="checkbox"/> Entisol <input type="checkbox"/> Inceptisol <input type="checkbox"/> Mollisol <input type="checkbox"/> Vertisol	<input type="checkbox"/> Arg <input type="checkbox"/> Aqu <input type="checkbox"/> Camb <input type="checkbox"/> Calc <input type="checkbox"/> Fluv <input type="checkbox"/> Gyps <input type="checkbox"/> Orth <input type="checkbox"/> Sal <input type="checkbox"/> Ust	<input type="checkbox"/> Argi <input type="checkbox"/> Calci <input type="checkbox"/> Camb <input type="checkbox"/> Endo <input type="checkbox"/> Epi <input type="checkbox"/> Hapl <input type="checkbox"/> Natr <input type="checkbox"/> Pale <input type="checkbox"/> Ust(i)	Starting depth (5)          Ending depth (5)	Class (5) <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

### V. Interpretations

Part V Score: \_\_\_\_\_

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