PEDON 03

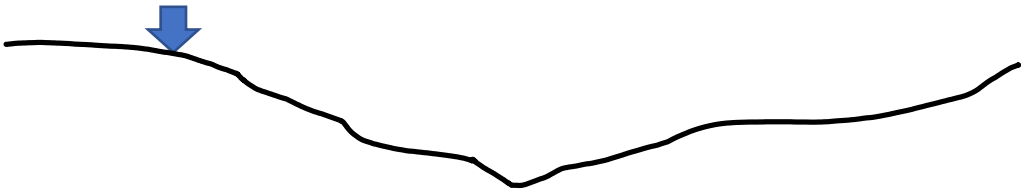
SITE INFORMATION

The site is located in Randall County north of Canyon, Texas. The area was formerly grazed pasture (excluded from grazing rotations for the last 30+ years). The slope is 2% and the area is dominated by mid and short grasses, forbs, and sparse mesquite trees. The soil was formed in calcareous, loamy eolian deposits. There is no flooding or ponding potential.

LANDFORM

The pedon is on gently sloping upland plains ~250 feet upslope from a dry creekbed. The zone is transitional between 0-1% sloped plains and more diverse topography near the edge of Palo Duro Canyon.

HILLSLOPE POSITION



SOIL MOISTURE AND TEMPERATURE REGIMES

Ustic moisture regime bordering on aridic. Thermic temperature regime.

SOIL PIT INFORMATION

Clay films are visible on ped surfaces in horizons 2-5. Identifiable secondary carbonates (≥5%) are in horizons 4-5. Color blocks on the pit's measuring tape represent 10 cm increments.

CHARACTERIZATION DATA

Horizon	% OC	pH	% BS	% $CaCO_3$
1	0.8	8.2	76	2
2	0.7	8.3	75	2
3	0.6	8.3	79	21
4	0.6	8.4	81	26
5	0.6	8.4	86	55

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SITE IMAGE

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PROFILE IMAGE

PEDON 03

SCORECARD

SCORECARD
VIRTUAL NATIONAL
SOIL JUDGING
CONTEST
APRIL 5-16, 2021

1. _____ _____
2. _____ _____
3. _____ _____
4. _____ _____
5. _____ _____

Total

Contestant: _____
School: PRACTICE
Pedon Number: 03

1. Soil Morphology **Score:**

Horizonation				Boundary		Texture						Color			Structure		Cons.	Soil Features			Score
Master		Sub. (5)	No. (5)	Dep. (cm)	Dist.	Sand (%)	Silt (%)	Clay (%) (5)	CF (%)	CF mod. (5)	Class (5)	Hue	Value	Chr.	Grade	Shape	Moist Strength	Redox		Eff.	(35)
Pre. (5)	Let. (5)																	Depl.	Conc.		
				11	C	39	30		—			10 YR	3	2	2	SBK	FI	—	-	SL	
				31	C	34	28		—			10 YR	3	3	2	SBK	FI	—	-	SL	
				48	G	34	27		—			7.5 YR	3	4	3	SBK PR	FI	—	—	SL	
				94	G	34	27		1			7.5 YR	3	4	3	PR	FI	—	—	VE	
				116+	-	35	28		1			7.5 YR	7	2	2	SBK PR	FI	—	—	VE	

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2. Soil Profile Characteristics **Score:**

Hydraulic Conductivity (10)		Loading Rate at 75 cm (5)	Effective Soil Depth (5)	Water Retention Difference (5)	Soil Wetness Class (5)
Surface (5) _____High _____Mod. _____Low	Limiting Layer (5) _____High _____Mod. _____Low	_____ gpd/ft² (3) Ref. (2) _____	____V. shallow (<25 cm) ____Shallow (25 to 49 cm) ____Mod. deep (50 to 99 cm) ____Deep (100 to 149 cm) ____Very deep (≥150 cm)	____Very low (< 7.5 cm) ____Low (7.5 to < 15 cm) ____Mod. (15 to < 22.5 cm) ____High (≥ 22.5 cm)	____ (> 150 cm) ____ (100 to 150 cm) ____ (50 to 99 cm) ____ (25 to 49 cm) ____ (< 25 cm)

3. Site Characteristics **Score:**

Parent Material (GIVEN)	Landform (GIVEN)	Slope (GIVEN)	Slope Profile (5)	Surface Runoff (5)	Eros. Pot. (5)
LOAMY EOLIAN	Upland PLAINS	2%	____ Summit ____ Shoulder ____ Backslope ____ Footslope ____ Toeslope ____ None	____Ponded ____Very slow ____Slow ____Medium ____Rapid ____Very rapid	____ Very Low ____ Low ____ Medium ____ High ____ Very High

4. Soil Classification **Score:**

Epipedon (5)	Subsurface horizons and/or diagnostic features (5 each)	Order (10)	Suborder (10)	Great Group (10)

5. Interpretations **Score:**

Houses with Basements (3)	Septic Tank Abs. Fields (3)	Local Roads and Streets (3)	Corn (3)	Hopyards (3)	Created Wetlands (3)
_____ Slight _____ Moderate _____ Severe Reason # (2): _____	_____ Slight _____ Moderate _____ Severe Reason # (2): _____	_____ Slight _____ Moderate _____ Severe Reason (2): _____	_____ Slight _____ Moderate _____ Severe Reason (2): _____	_____ Slight _____ Moderate _____ Severe Reason (2): _____	_____ Slight _____ Moderate _____ Severe Reason (2): _____