PEDON 13

SITE INFORMATION

Gently-undulating landscape near Seguin, TX. Native savannah of sideoats grama, three-awn, Texas wintergrass, and live oak. Rainfall about 29 inches, mainly in April and September. Cracks (>5 mm) on the surface extending past the upper 50 cm remain open for about 100 days during the year. No ponding or flooding frequency.

LANDFORM

Blackland prairies - plains landform. Slope is 1.8% and elevation is 265 ft. There are small depressions (gilgai) that fill with water after heavy rains. See picture.

HILLSLOPE POSITION

SOIL MOISTURE AND TEMPERATURE REGIMES

Soil moisture regime is ustic and soil temperature regime is thermic.

SOIL PIT INFORMATION

Pressure surfaces in horizons 2-6 due to very plastic clays. No evidence of clay illuviation in the profile. Slickensides (wedge-shaped aggregates with shiny slip surfaces) formed in horizons 3-7. Formed in Cretaceous aged Marl (unconsolidated limestone). Visible carbonates 2, 5, 15, and 25% in horizons 5-8. Visible gypsum 2% and 6% in horizons 7 and 8.

CHARACTERIZATION DATA

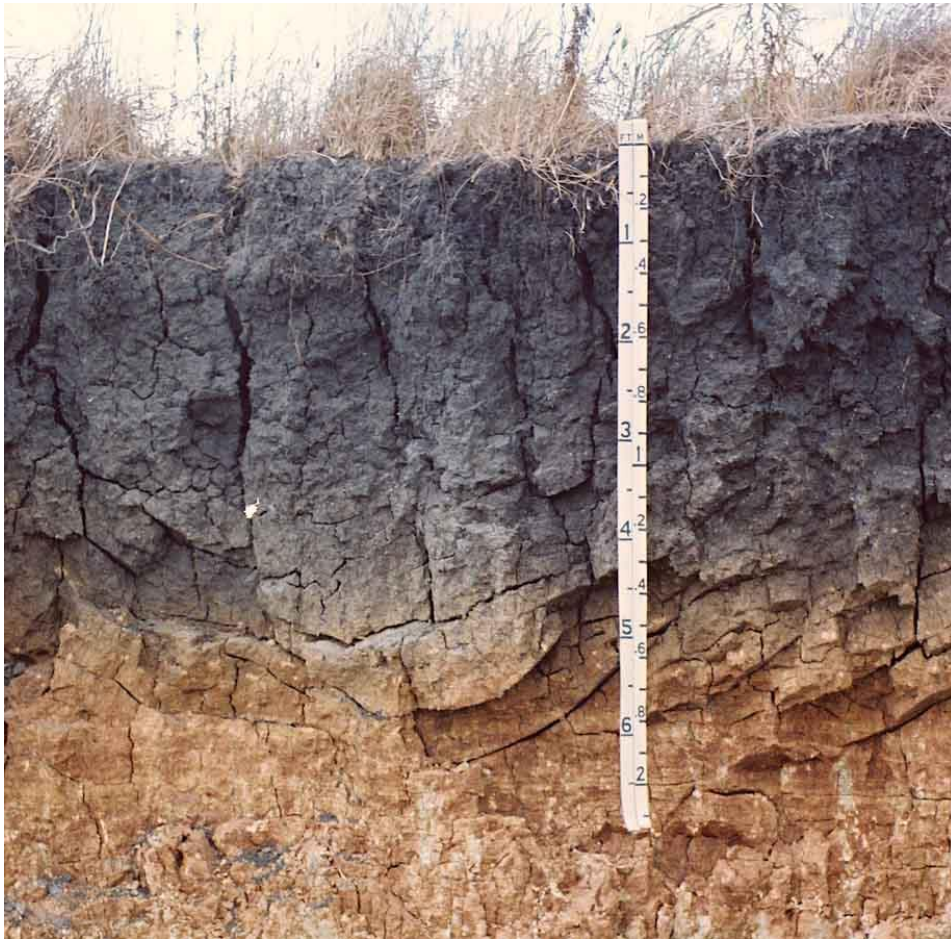| Horizon	OC (%)	Base Sat. (%)	CaSO4*H20 (%)	CaCO3 eq (%)
1	1.35	100	-	-
2	0.81	100	-	-
3	0.27	100	-	1
4	0.21	100	-	1
5	0.24	100	-	5
6	0.25	100	-	13
7	0.15	100	3	20
8	0.05	100	12	38

PEDON 13

SITE IMAGE

PEDON 13

PROFILE IMAGE

PEDON 13

SCORECARD

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

Contestant:
School: PRACTICE
Pedon Number: 13

Score:

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

1. Soil Morphology

Horizonation Pre.(5)	Let.(5)	Sub.(5)	No.(5)	Dep.(cm)	Dist.	Sand(%)	Silt(%)	Clay(%)(5)	CF(%)	CF mod.(5)	Class(5)	Hue	Value	Chr.	Grade	Shape	Moist Strength	Depl.	Conc.	Eff.	Score(35)
				15	C	4	55		0			10YE	2	1	2	GR	FR	—	—	VS	
				32	C	5	49		0			10YE	2	1	2	ABK	PI	—	—	NS	
				73	G	7	48		0			10YE	3	1	3	ABK WEG	FI	—	—	SL	
				105	G	5	45		0			10YE	3	2	3	WEG	FI	—	—	SL	
				140	C	6	40		0			10YE	3	3	3	WEG	FI	—	—	ST	
				175	C	5	39		0			10YR	4	3	1	WEG	FI	—	—	ST	
				210	C	8	50		1			10YR	5	4	0	WEG	FI	—	Y	VE	
				235+	—	10	52		0			10YR	5	4	NA	NA	FR	Y	Y	VE	

PEDON 13

2. Soil Profile Characteristics

Hydraulic Conductivity (10)		Loading Rate at 75 cm (5)	Effective Soil Depth (5)	Water Retention Difference (5)	Soil Wetness Class (5)
Surface (5)	Limiting Layer (5)		___ V. shallow (<25 cm)	___ Very low (< 7.5 cm)	___ (> 150 cm)
___ High	___ High		___ Shallow (25 to 49 cm)	___ Low (7.5 to < 15 cm)	___ (100 to 150 cm)
___ Mod.	___ Mod.	___ gpd/ft² (3)	___ Mod. deep (50 to 99 cm)	___ Mod. (15 to < 22.5 cm)	___ (50 to 99 cm)
___ Low	___ Low	___ Ref (2) ___	___ Deep (100 to 149 cm)	___ High (≥ 22.5 cm)	___ (25 to 49 cm)
			___ Very deep (≥150 cm)		___ (< 25 cm)

Score:

3. Site Characteristics

Parent Material (GIVEN)	Landform (GIVEN)	Slope (GIVEN)	Slope Profile (5)	Surface Runoff (5)	Eros. Pot. (5)
RESIDUUM	PLAINS	1.8%	___ Summit	___ Ponded	___ Very Low
			___ Shoulder	___ Very slow	___ Low
			___ Backslope	___ Slow	___ Medium
			___ Footslope	___ Medium	___ High
			___ Toeslope	___ Rapid	___ Very High
			___ None	___ Very rapid	

Score:

4. Soil Classification

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

Score:

5. Interpretations

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