

PEDON 17

SITE INFORMATION

The pedon is located in cropland near Jackson, Mississippi. The location receives about 46 inches of precipitation annually. Native vegetation in the area is oak-pine woodlands. No flooding or ponding.

LANDFORM

The pedon is located on the Coastal Plains on a dissected upland area sloping to the SE. The soil is forming in Unconsolidated Coastal Plains Sediments of Tertiary age. The site has 4.5% slope, is on a S aspect at 190 ft. elevation.

HILLSLOPE POSITION



SOIL TEMPERATURE AND MOISTURE REGIME

The soil moisture regime is udic and the soil temperature regime is thermic.

SOIL PIT INFORMATION

The sand is dominantly fine size. The clay has low plasticity. Clay films are found in horizons 3-6. The 5th and 6th horizons have 15% Fe- oxide cemented masses that harden irreversibly upon drying. These very firm masses do not contain any humus complexed with the Fe. The 6th horizon is a transitional horizon.

CHARACTERIZATION DATA

Horizon	Org. C (%)	Base Sat. (%)	pH (water)	CEC (cmol ⁺ /kg clay)	ECEC (cmol ⁺ /kg clay)
1	1.42	40	6.2	22.2	15
2	0.12	35	5.9	18.3	13
3	0.02	34	5.2	14.2	11
4	0.01	32	5.0	14.6	11
5	0.01	30	4.9	15.2	11
6	0.01	28	5.1	15.4	10

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SITE IMAGES

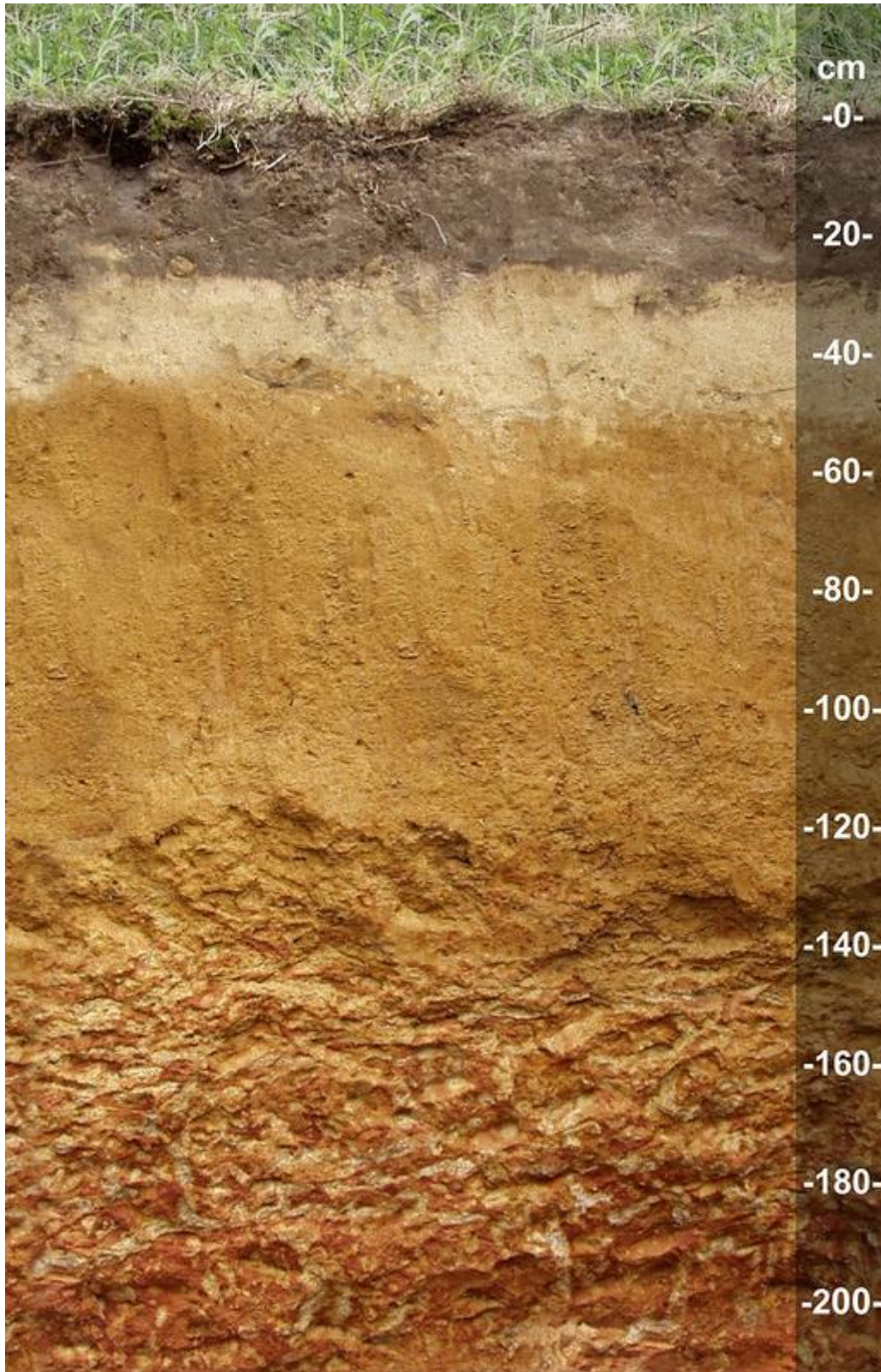


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PEDON IMAGE



PEDON 17

SCORECARD

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

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

Contestant: _____
 School: _____
 Pedon Number: PRACTICE 17

Horizonation			Boundary		Texture					Color			Structure		Cons.	Soil Features		Score			
Master Pre. (5)	Let. (5)	Sub. (5)	No. (5)	Dep. (cm)	Dist.	Sand (%)	Silt (%)	Clay (%)	CF (%)	CF mod. (5)	Class (5)	Hue	Value	Chr.	Grade	Shape	Moist Strength	Redox		Eft. (35)	
																		Depth	Conc.		
				26	A	88	7		0			10 Yk	3	4	2	Sbk	VFR	-	-	-	
				51	C	84	6		0			10 Yk	6	3	1	Sbk	L	-	-	-	
				82	G	75	9		0			7.5 Yk	5	4	1	Sbk	FR	-	-	-	
				130	A	65	12		0			7.5 Yk	5	4	2	Sbk	FR	-	Y	-	
				164	C	42	24		1			5 Sk	5	6	2	Agk Pl	F1	Y	Y	-	
				210+	-	45	30		1			5 K	5	6	1	Agk Pl	F1	Y	Y	-	

Score:

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2. Soil Profile Characteristics

Hydraulic Conductivity (10)		Limiting Layer (5)	Loading Rate at 75 cm (5)	Effective Soil Depth (5)	Water Retention Difference (5)	Soil Wetness Class (5)
Surface (5)	High	High	_____ gpd/ft ² (3)	___ V. shallow (<25 cm)	___ Very low (< 7.5 cm)	___ (> 150 cm)
___ Mod.	___ Mod.	___ Mod.	Ref. (2) _____	___ Shallow (25 to 49 cm)	___ Low (7.5 to < 15 cm)	___ (100 to 150 cm)
___ Low	___ Low	___ Low		___ Mod. deep (50 to 99 cm)	___ Mod. (15 to < 22.5 cm)	___ (50 to 99 cm)
				___ 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)
UNCONSOLIDATED COASTAL PLAIN SEDIMENTS	DISSECTED COASTAL PLAINS	4.576	___ Summit ___ Shoulder ___ Backslope ___ Footslope ___ Toeslope ___ None	___ Ponded ___ Very slow ___ Slow ___ Medium ___ Rapid ___ Very rapid	___ Very Low ___ Low ___ Medium ___ High ___ Very High

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 ___ 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): _____

Score: _____