

# PEDON 16

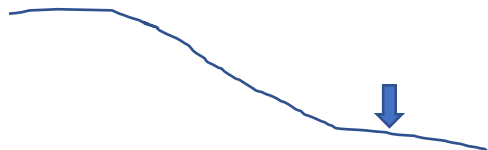
## SITE INFORMATION

This pedon is located near Berea, KY. About 40 inches precipitation. Vegetation is tall fescue. The site has been recently cultivated. No ponding or flooding.

## LANDFORM

6.4% slope, E aspect. Uplands at 880 ft. elevation.

## HILLSLOPE POSITION



## SOIL MOISTURE AND TEMPERATURE REGIME

Udic soil moisture, mesic soil temperature.

## SOIL PIT INFORMATION

The soil formed in loess of varying thickness over shale residuum. Rock fragments are channers. Abundant skeletalans throughout horizons 3-6. Thin, patchy clay films (cutans) on vertical and horizontal surfaces in horizons 2 and 3, and inside the vesicular pores in horizons 4-6. Redox concentrations are Fe and Mn oxides. 60%, 65%, and 35% brittleness in horizons 4, 5 and 6, with a trace in horizon 3. Vertical prism surfaces coated with clean-washed silt, surrounded by redox concentrations. Pay special attention to the check depth on this pedon.

## CHARACTERIZATION DATA

Horizon	OC %	Base Sat %	pH (water)	CEC (cmol <sup>+</sup> /kg clay)
1	1.52	70	6.2	22.1
2	0.30	50	6.0	19.2
3	0.18	40	5.9	18.4
4	0.04	38	5.8	17.7
5	0.01	34	5.9	16.8
6	0.01	36	6.1	17.8

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## PEDON IMAGE



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## SCORECARD

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

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

Contestant: \_\_\_\_\_  
 School: \_\_\_\_\_  
 Pedon Number: PRACTICE 16

1. Soil Morphology				Score:																
Horizonation			Boundary		Texture	Color			Structure		Cons.	Soil Features		Score (35)						
Master Pre. 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	Redox Depl.
			12	A	17	65	0	0			10 YR	3	3	2	GR	YR	-	Y	-	
			28	G	19	59	0	0			10 YR	3	4	2	SR	FR	-	Y	-	
			85	C	14	62	0	0			10 YR	4	4	2	SR	FR	Y	Y	-	
			103	G	16	60	0	0			10 YR	4	4	3	PR	FR	Y	Y	-	
			140	G	20	56	0	0			10 YR	4	4	3	PR	FR	Y	Y	-	
			155f	-	29	50	3	3			10 YR	5	4	2	PR	FR	Y	Y	-	

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## 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) ___ High ___ Mod. ___ Low	Limiting Layer (5) ___ High ___ Mod. ___ Low	___ gpd/ft <sup>2</sup> (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)

Score: \_\_\_\_\_

## 3. Site Characteristics

Parent Material (GIVEN)	Landform (GIVEN)	Slope (GIVEN)	Slope Profile (5)	Surface Runoff (5)	Eros. Pot. (5)
LOESS RESIDUUM	URLAND	6.4%	___ 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	___ Slight ___ Moderate ___ Severe	___ Slight ___ Moderate ___ Severe	___ Slight ___ Moderate ___ Severe	___ Slight ___ Moderate ___ Severe	___ Slight ___ Moderate ___ Severe
Reason # (2): _____	Reason # (2): _____	Reason (2): _____	Reason (2): _____	Reason (2): _____	Reason (2): _____

Score: \_\_\_\_\_