

# PEDON 21

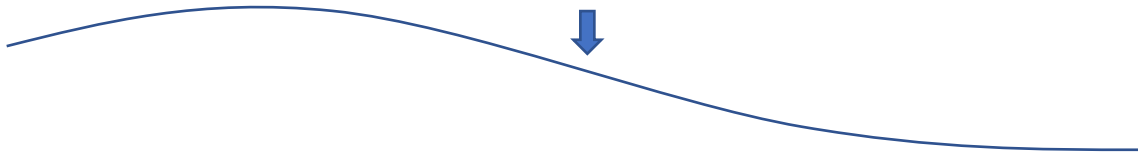
## SITE INFORMATION

This site is located in Boone County, Iowa, west of Ames. This upland location is on a 1.5% slope in a fairly flat landscape. While it has a cover crops in the images below, this is generally in corn or soybeans, with occasional rotations of a small grain such as oats. No ponding or flooding.

## LANDFORM

The Des Moines Lobe of the Wisconsin age glacial deposit present has low rock fragments compared to an average glacial deposit, and is fairly young, so less development is expected at both the profile and landscape level. Glacial materials left a variety of mixed materials, including sandier pockets of material, which occur in the lower horizon of this profile.

## HILLSLOPE POSITION



## SOIL MOISTURE AND TEMPERATURE REGIMES

This region is a mesic temperature regime and udic moisture regime

## SOIL PIT INFORMATION

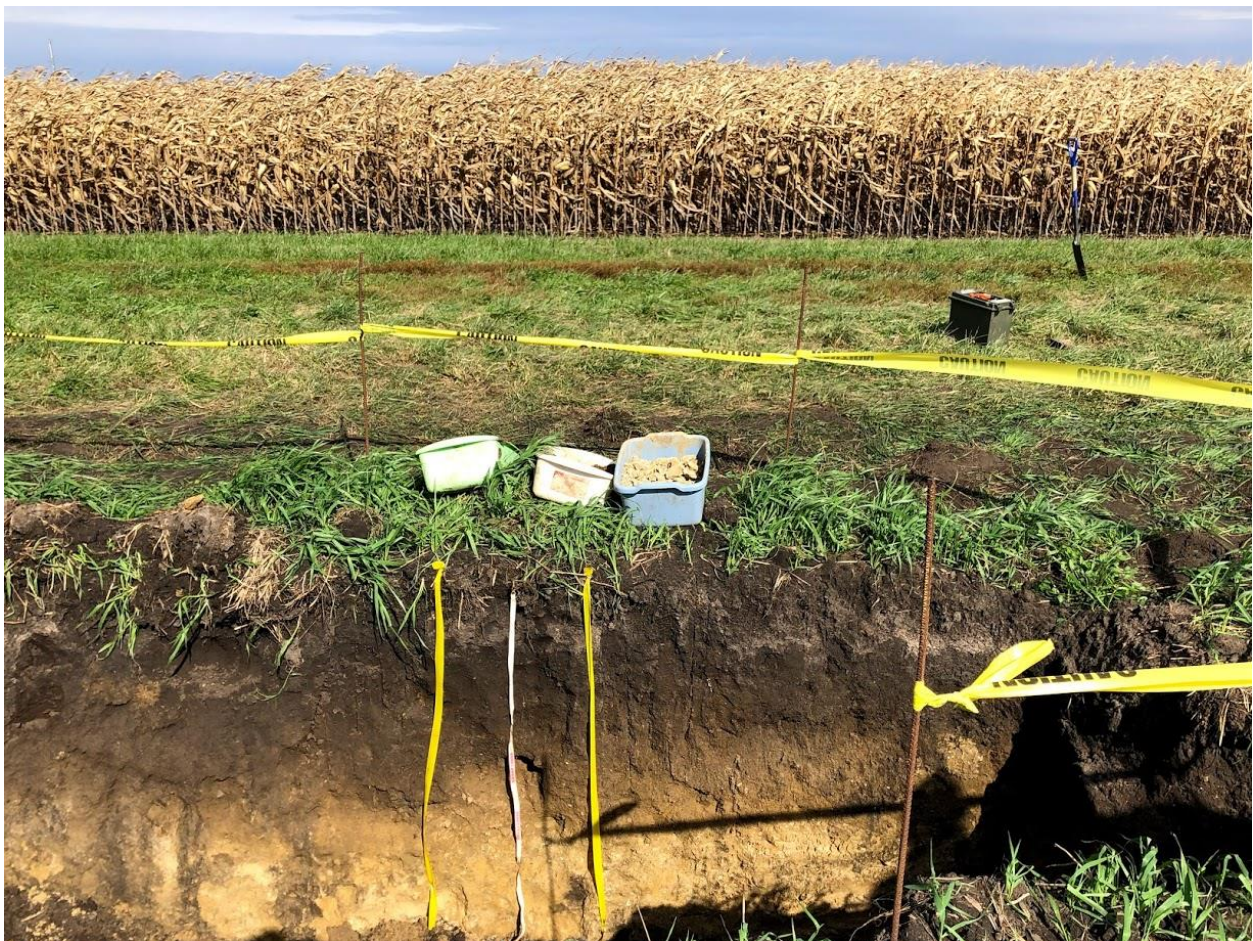
There are no clay films present in this profile. The 3<sup>rd</sup> and 5<sup>th</sup> horizons are transitional horizons.

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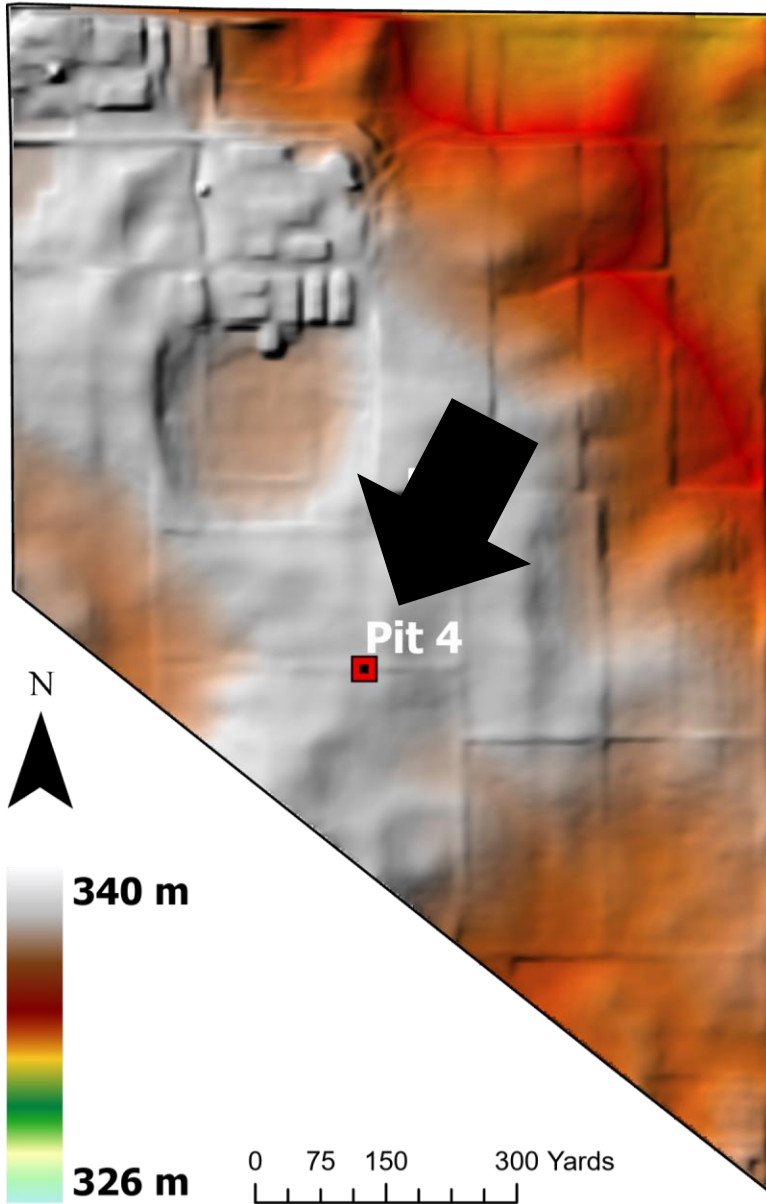
## CHARACTERIZATION DATA

Horizon	Organic C (%)	Base Sat. (%)
1	3.1	65
2	2.6	64
3	1.7	61
4	0.7	60
5	0.5	60
6	.3	60

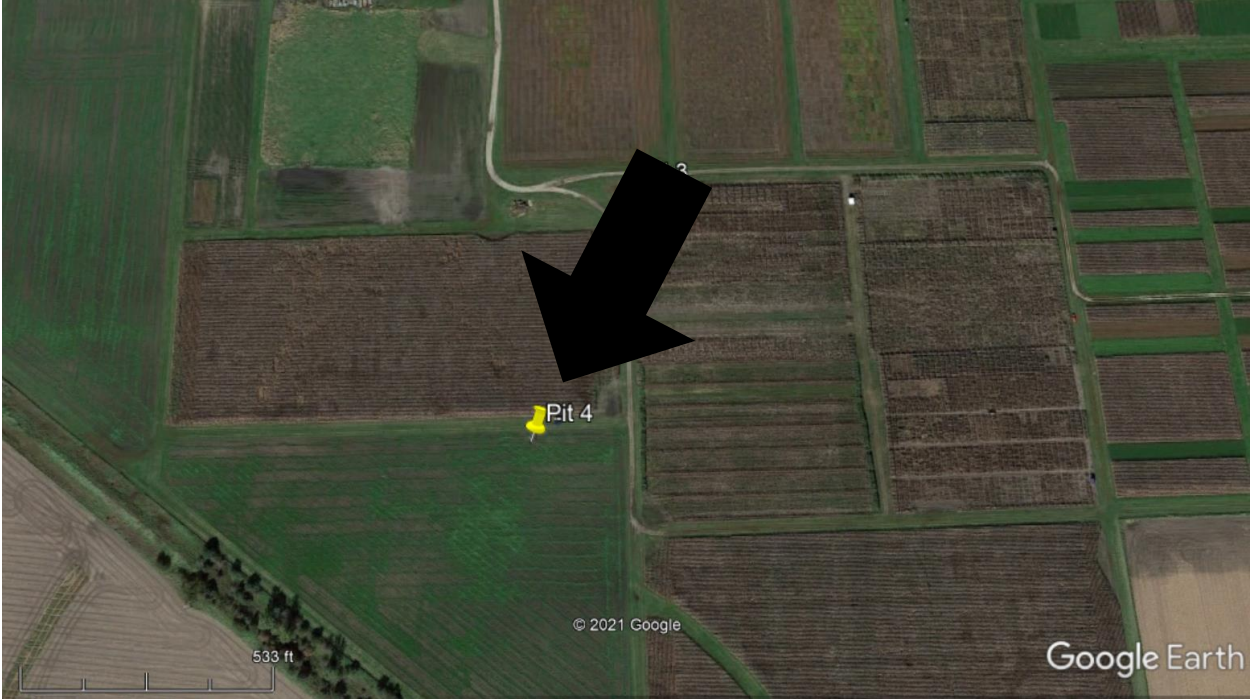
## SITE IMAGE



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## PROFILE IMAGE





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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) <input type="checkbox"/> High <input type="checkbox"/> Mod. <input type="checkbox"/> Low	Limiting Layer (5) <input type="checkbox"/> High <input type="checkbox"/> Mod. <input type="checkbox"/> Low	_____ gpd/ft <sup>2</sup> (3) Ref. (2) _____	<input type="checkbox"/> V. shallow (<25 cm) <input type="checkbox"/> Shallow (25 to 49 cm) <input type="checkbox"/> Mod. deep (50 to 99 cm) <input type="checkbox"/> Deep (100 to 149 cm) <input type="checkbox"/> Very deep (≥150 cm)	<input type="checkbox"/> Very low (< 7.5 cm) <input type="checkbox"/> Low (7.5 to < 15 cm) <input type="checkbox"/> Mod. (15 to < 22.5 cm) <input type="checkbox"/> High (≥ 22.5 cm)	<input type="checkbox"/> (> 150 cm) <input type="checkbox"/> (100 to 150 cm) <input type="checkbox"/> (50 to 99 cm) <input type="checkbox"/> (25 to 49 cm) <input type="checkbox"/> (< 25 cm)

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

## 3. Site Characteristics

Parent Material (GIVEN)	Landform (GIVEN)	Slope (GIVEN)	Slope Profile (5)	Surface Runoff (5)	Eros. Pot. (5)
GLACIAL TILL	URLAND	1.5%	<input type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input type="checkbox"/> Backslope <input type="checkbox"/> Footslope <input type="checkbox"/> Toeslope <input type="checkbox"/> None	<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

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)
<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe
Reason # (2): _____	Reason # (2): _____	Reason (2): _____	Reason (2): _____	Reason (2): _____	Reason (2): _____

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