SITE INFORMATION

East-central Minnesota on the Des Moines Lobe till plain in Wright County near Howard Lake, Minnesota. The site has been under continuous cultivation for the past 120 years. The slope is 3% and the agricultural management in the past 30 years has largely consisted of a corn-soybean rotation. The historic vegetation is tallgrass prairie. This site has no ponding or flooding.

LANDFORM AND PARENT MATERIAL

The site is best described as a gently rolling upland with a southeast aspect on a linear slope. Soils of the uplands on the Des Moines Lobe till plain are formed in calcareous, loamy glacial till. The till has coarse fragments (predominantly gravels) throughout.

HILLSLOPE POSITION



SOIL MOISTURE AND TEMPERATURE REGIMES

Upland soils in this region have a udic soil moisture regime, and the soil temperature region is mesic.

SOIL PIT INFORMATION

The 3rd and 4th horizons have visible clay films on the surfaces of peds. The 5th, 6th, and 7th horizons have visible secondary carbonates and are strongly effervescent. The 3rd horizon is a transitional horizon. The coarse fragments are gravels.

CHARACTERIZATION DATA

Horizon	% Base Saturation	% Org. C	CaCO3 (%)
1	63	5.1	0
2	62	4.8	0
3	67	2.2	0
4	72	0.5	0
5	100	0.3	2
6	100	0.2	4
7	100	0.2	4

SITE IMAGE



PROFILE IMAGE

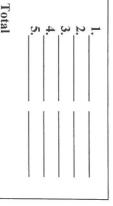


SCORECARD

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Pre. (5) Master Soil Morphology Horizonation (5) Sub (5) (5) 5 6 152+ 22 00 3 Dep. (cm) Boundary 00 Dist 5 P P 0 P ١ P 4 4 42 22 45 99 24 Sand (%) 5 20 57 35 43 35 30 42 Silt (%) Clay (%) (5) Texture Total 4 Э w CF (%) 2 W w 2 CF mod Class (5) 2.5 12 4 io SOFO 125 4p Hue Value Color 2 2 S M 2 N P 2 w Chr. 2 f N Grade ٣ W N 0 ٢ N Structure Sak SBK SOK SBK Shape Sak SBK MA Moist Strength FR FR FR Cons. FR D FR 27 Depl. 4 4 1 1 1 1 Soil Features Redox Conc 4 1 4 4) Score: 5 57 5 1) Eff.) 1 Score (35)

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





Pedon Number:

PRACTICE 9



Slight Moderate Severe Reason # (2):	Houses with Basements (3)	5. Interpretations	4. Soil Classification Epipedon (5)	GLACIAL TILL	3. Site Characteristics Parent Material (GIVEN)	Hydraulic Conductivity (10) Surface (5) Limiting Layer (5) High —High Mod. _Mod. Low Low
Slight Moderate Severe Reason # (2):	Septic Tank Abs. Fields (3)		Subsurface horizons and/or diagnostic features (5 each)	NOSESLOPE	Landform (GIVEN)	Loading Rate Layer (5) High
Slight Moderate Severe Reason (2):	Local Roads and Streets (3)		ad/or ach) Order (10)	20	Slope (GIVEN)	Effective Soil Depth (5) V. shallow (<25 cm) Mod. deep (50 to 99 cm) Deep (100 to 149 cm) Very deep (2150 cm)
Slight Moderate Severe Reason (2):	Corn (3)		Suborder (10)	Shoulder Backslope Footslope Toeslope None	Slope Profile (5)	Water Retention Difference (5)
Slight Moderate Severe Reason (2):	Hopyards (3)		ler (10)	Ponded Very slow Slow Medium Rapid Very rapid	Surface Runoff (5)	bifference (5) .5 cm) 15 cm) 22.5 cm)
Slight Moderate Severe Reason (2):	Created Wetlands (3)	Score:	Score: Great Group (10)	Very Low Low Medium High Very High	Score: Eros. Pot. (5)	Soil Wetness Class (5) (> 150 cm) (100 to 150 cm) (50 to 99 cm) (25 to 49 cm) (< 25 cm)