

SCORECARD
NATIONAL SOILS CONTEST
Northern Illinois University
DeKalb, Illinois
April 23 - 28, 2017



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

Contestant I.D. _____
 Site No. _____
 Horizons _____
 Describe to a depth of _____ cm
 Nail in third horizon at _____ cm

I. Soil Morphology

Score:

Horizonation				Boundary		Texture					Color			Structure		Cons.	Soil Features			Score
Master		Sub (2)	No (2)	Lower Depth (cm) (2)	Dist (2)	Sand% (± 5) (2)	Clay% (± 5) (2)	%CF (± 5) (2)	CF Mod. (2)	Class (2)	Hue (2)	Value (2)	Chroma (2)	Grade (2)	Shape (2)	Moist Strength (2)	Redox		Efferv (2)	Possible (40)
Prefix (2)	LTR (2)																Depl. (2)	Conc. (2)		

II. Soil Profile Characteristics

Score:

Hydraulic Conductivity (10)		Loading Rate at 75 cm (5)	Effective Soil Depth (5)	Water Retention Difference (5)	Soil Wetness Class (5)
<u>Surface</u> (5) _____ High _____ Mod. _____ Low	<u>Limiting Layer</u> (5) _____ High _____ Mod. _____ Low	_____ gpd/ft ² (3) Ref. (2) _____	_____ V. shallow (< 25 cm) _____ Shallow (25 to 49 cm) _____ Mod. Deep (50 to 99 cm) _____ Deep (100 to 150 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)	_____ (< 25 cm) _____ (25 to 49 cm) _____ (50 to 99 cm) _____ (100 to 150 cm) _____ (> 150 cm)

III. Site Characteristics

Score:

Parent Material (5 each)	Landform (5)		Slope (5)	Slope Profile (5)	Surface Runoff (5)	Erosion Pot. (5)
<input type="checkbox"/> Alluvium <input type="checkbox"/> Beach deposit <input type="checkbox"/> Colluvium <input type="checkbox"/> Eolian sand <input type="checkbox"/> Glacial outwash <input type="checkbox"/> Human trans. materials <input type="checkbox"/> Lacustrine deposit <input type="checkbox"/> Loess <input type="checkbox"/> Glacial till <input type="checkbox"/> Pedisegment <input type="checkbox"/> Residuum	<u>Constructional</u> <input type="checkbox"/> Floodplain <input type="checkbox"/> Stream terrace <input type="checkbox"/> Kame/esker <input type="checkbox"/> Alluvial fan <input type="checkbox"/> Loess plain/hillslope <input type="checkbox"/> Outwash plain <input type="checkbox"/> Sand dune <input type="checkbox"/> Lake plain <input type="checkbox"/> Till plain/drumlin/moraine	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <i>Choose only one landform</i> </div> <u>Erosional</u> <input type="checkbox"/> Upland headslope <input type="checkbox"/> Upland sideslope <input type="checkbox"/> Upland noseslope <input type="checkbox"/> Interfluvium	<input type="checkbox"/> 0 to < 2% <input type="checkbox"/> 2 to < 6% <input type="checkbox"/> 6 to < 12% <input type="checkbox"/> 12 to < 20% <input type="checkbox"/> ≥ 20% _____ % slope	<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"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High

IV. Soil Classification

Score:

Epipedon (5)	Subsurface Horizon/ Feature (5 each)	Order (5)	Suborder (5)	Great Group (5)	Family Particle Size Control Section(5)	Family Particle Size Class (5 each)	
<input type="checkbox"/> Mollic <input type="checkbox"/> Ochric <input type="checkbox"/> Umbric <input type="checkbox"/> None	<input type="checkbox"/> Albic <input type="checkbox"/> Argillic <input type="checkbox"/> Calcic <input type="checkbox"/> Cambic <input type="checkbox"/> Densic <input type="checkbox"/> Glossic <input type="checkbox"/> Lithic <input type="checkbox"/> Paralithic <input type="checkbox"/> None	<input type="checkbox"/> Alfisol <input type="checkbox"/> Entisol <input type="checkbox"/> Inceptisol <input type="checkbox"/> Mollisol	<input type="checkbox"/> Alb <input type="checkbox"/> Aqu <input type="checkbox"/> Fluv <input type="checkbox"/> Orth <input type="checkbox"/> Psamm <input type="checkbox"/> Ud <input type="checkbox"/> Other	<input type="checkbox"/> Alb <input type="checkbox"/> Argi <input type="checkbox"/> Calci <input type="checkbox"/> Dystr <input type="checkbox"/> Endo <input type="checkbox"/> Epi <input type="checkbox"/> Eutr <input type="checkbox"/> Fluv <input type="checkbox"/> Gloss <input type="checkbox"/> Hapl <input type="checkbox"/> Pale <input type="checkbox"/> Psamm <input type="checkbox"/> Quartzi <input type="checkbox"/> Ud(i) <input type="checkbox"/> Other	<input type="checkbox"/> Mineral soil surface to root-limiting layer <input type="checkbox"/> 25 cm to root limiting layer <input type="checkbox"/> 25 to 100 cm <input type="checkbox"/> Lower boundary of Ap to root limiting layer <input type="checkbox"/> Lower boundary of Ap to 100 cm <input type="checkbox"/> All of the argillic <input type="checkbox"/> Upper 50 cm of argillic <input type="checkbox"/> Upper boundary of argillic to root limiting layer <input type="checkbox"/> Upper boundary of argillic to 100 cm <input type="checkbox"/> Other	<input type="checkbox"/> Sandy-skeletal <input type="checkbox"/> Loamy-skeletal <input type="checkbox"/> Clayey-skeletal <input type="checkbox"/> Sandy <input type="checkbox"/> Loamy <input type="checkbox"/> Clayey	<input type="checkbox"/> Coarse-loamy <input type="checkbox"/> Fine-loamy <input type="checkbox"/> Coarse-silty <input type="checkbox"/> Fine-silty <input type="checkbox"/> Fine <input type="checkbox"/> Very-fine

Note: For strongly contrasting classes, indicate the upper class with a "1" and the lower class with a "2". For example: coarse loamy over clayey-skeletal should have a "1" marked next to coarse-loamy, and a 2 marked next to clayey-skeletal.

V. Interpretations

Score:

Houses With Basements (3)	Septic Tank Absorption Fields (3)	Local Roads and Streets (3)	Hydric (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"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor	<input type="checkbox"/> Yes <input type="checkbox"/> No
Reason # (3): _____	Reason # (3): _____	Reason # (3): _____	Indicator (3) _____