

**2022 NACTA Soils Judging Contest
2-Year Division Scorecard**

Contestant Name	
Contestant Number	
College	

Pit Number	
Number of Horizons	
Profile Depth	
Nail Depth	

Part I. Morphology

Part I. Score _____

	HORIZON- ATION	BOUNDARY		COLOR			MOIST CONSIST	TEXTURE		STRUCTURE		SOIL FEATURES	SCORE
		Master	Depth (cm)	Dist.	Hue	Value		Chroma	Rock Fragment Modifier	Class	Type		
	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(5)	(5)	(2)	(28)	
1.													
2.													
3.													
4.													
5.													
6.													
	A B C E R	Record lower depth in cm.	Abrupt (A) Clear (C) Gradual (G) Diffuse (D) None (-)				Loose (L) V. Friable (VFR) Friable (FR) Firm (FI) V. Firm (VFI) Ext. Firm (EFI)	None (-) Gravelly (GR) Very Grav. (VGR) Extrem. Grav. (EGR)	S, LS, SL, L, SCL, SC, C, SIC, SICL, CL, SIL, SI	GR PR SBK CO ABK MA PL SGR WEG	None (-) Concentrations (C) Depletions (D) White (W)		

Part II – Site and Soil Characteristics

1) Local Landform (5)

- _____ Upland
- _____ Upland depression
- _____ Alluvial fan
- _____ Stream terrace
- _____ Floodplain
- _____ Footslope
- _____ Paleoterrace
- _____ Dunes/Interdunes

2) Parent Material (5 pts each correct)

- _____ Alluvium
- _____ Colluvium
- _____ Eolian sand/Eolian loam
- _____ Loess
- _____ Residuum

3) Slope (5)

- _____ Concave
- _____ 0 - < 2%
- _____ 2 - < 5%
- _____ 5 - < 10%
- _____ 10 - < 15%
- _____ 15 - 20%
- _____ > 20%

4) Hillslope Profile Position (5)

- _____ Summit
- _____ Shoulder
- _____ Backslope
- _____ Footslope
- _____ Toeslope
- _____ None (slope <2%)

5) Surface Ruoff (5)

- _____ Negligible
- _____ Very slow
- _____ Slow
- _____ Moderate
- _____ Rapid
- _____ Very rapid

6) Soil Erosion Potential (5)

- _____ Low
- _____ Medium
- _____ High

7) Soil Wetness Class (5)

- _____ Not wet above 150 cm (WD)
- _____ Wet between 50 to 150 cm (MWD)
- _____ Wet between 25 to <50 cm (SWPD)
- _____ Wet above 25 cm (PD)

8) Effective Soil Depth (5)

- _____ Very shallow (< 25 cm)
- _____ Shallow (25 - < 50 cm)
- _____ Moderately deep (50 - < 100 cm)
- _____ Deep (100 – 150 cm)
- _____ Very deep (> 150 cm)

9) Hydraulic Conductivity – Surface (5)

- _____ Slow
- _____ Moderate
- _____ Rapid

10) Hydraulic Conductivity – Limiting (5)

- _____ Slow
- _____ Moderate
- _____ Rapid

11) Water Retention Difference (5)

- _____ Very low (< 7.5 cm)
- _____ Low (7.5 - < 15 cm)
- _____ Moderate (15 – 22.5 cm)
- _____ High (> 22.5 cm)

Part III – Interpretations

1) Roadfill (5)

- _____ Good
- _____ Fair
- _____ Poor

_____ Feature (5)

2) Septic Tank Absorption Fields (5)

- _____ Good
- _____ Fair
- _____ Poor

_____ Feature (5)

3) Sewage Lagoons (5)

- _____ Good
- _____ Fair
- _____ Poor

_____ Feature (5)

Tie Breaker (Surface)

% clay _____ % Sand _____

Part II and III Score _____

Total Score _____