



2019 NACTA Soils Judging Contest
4 Year Division

Hosted by: Murray State University
April 12, 2019

Contestant Number	
Contestant Name	
Pit Number	
Number of Horizons	to a depth of _____ cm
Nail Depth	

I. Soil Morphology

Score: _____

HORIZONATION				BOUNDARY		TEXTURE				COLOR			STRUCTURE		CONSIST	SOIL FEATURES		SCORE
Prefix	Master	Sub	No	Depth (cm)	Dist	Rock Frag Mod	Class	% Sand	% Clay	Hue	Value	Chroma	Grade	Type	Moist	RMF-Cone (Y/-)	RMF-Depl (Y/-)	
(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	

II. Soil Profile Characteristics

Score: _____

HYDRAULIC CONDUCTIVITY		EFFECTIVE SOIL DEPTH (5)	WATER RETENTION DIFFERENCE (5)	SOIL WETNESS CLASS (5)	TOTAL SCORE
SURFACE (5)	LIMITING (5)				
_ High	___ High	___ Very deep (> 150 cm)	_ Very low (< 7.5 cm)	Class 1 (> 150 cm)	Part I
-- Moderate	-- Moderate	_ Deep (100 -150cm)	___ Low (7.5 - < 15 cm)	_ Class 2 (101 -150 cm)	Part II
-- Low	-- Low	___ Mod. deep (50 - 99 cm)	_ Mod. (15 -< 22.5 cm)	_ Class 3 (51 -100 cm)	Part III
		___ Shallow (25 - 49 cm)	_ High (22.5 cm)	Class 4 (25 -50 cm)	Part IV
		_ Very shallow (< 25 cm)		Class 5 (<25 cm)	Part V
					TOTAL

