

# Indiana Registry of Soil Scientists Continuing Education Units, field activities (CEUf)

## Soil Morphology Evaluation

Based on Indiana Soil and Landscape Evaluation Manual, AY-323

Name: \_\_\_\_\_ Location: \_\_\_\_\_ Date: \_\_\_\_\_

This evaluation is based on core or slab soil samples, usually three to six inches across. Larger features, such as structure units more than 100 mm (4 inches) across, are evaluated in pits. Fill in all (14) rectangles with bold borders for each soil unless official judges tell you differently. If they tell you not to evaluate a certain characteristic (e. g., clay films) put a dash (--) in the rectangle(s)

**Texture:** Give texture class; consider all the material in the sample, as if it was mixed and analyzed.

**Color: Matrix** is all the "ordinary" material within peds (AY-323). **Gray reduction colors** are gray colors (value  $\geq 4$ , chroma  $\leq 2$ ) due to reduction processes. **Brown, red, dark, etc.** means all colors other than Gray reduction colors. Use this column to report gray colors that are not due to reduction, such as some E horizons and weathered shale. % is the percent of that color in the matrix; total %s for a horizon should equal 100.

**Structure:** Do not evaluate structure units more than 100 mm ( 4 inches) across. Under **size**, record the dimension **in mm** of the dominant ped size (not class, e. g. medium). Enter one number (e.g. 15), not a range (e.g., 10-20).

**Consistence:** Report moist consistence unless told differently by official judges.

**Scoring:** Your score for each rectangle will be 1.0, 0.5, or 0, according to the scoring by official judges.

	Texture class	Matrix colors								Structure			Consistence (moist)	Chroma of clay films	Total score possible 36	%
		Brown, red, dark, etc.				Gray reduction colors				Grade	Size (mm)	Shape				
		Munsell			%	Munsell			%							
		Hue	Val	Chr		Hue	Val	Chr								
<b>SOIL 1</b>																
Score:																
Weight:	6	1	1	2	2	1	1	2	2	2	2	2	6	6		
Product:																
<b>SOIL 2</b>																
Score:																
Weight:	6	1	1	2	2	1	1	2	2	2	2	2	6	6		
Product:																