# **Indiana Soil Evaluation Scorecard**

4-H-394-W

**AGRICULTURE** 

# I. SOIL PROPERTIES (5 points each, 45 total)

# A. PARENT MATERIAL 1 Weathered bedrock 5 Loess 2 Till 6 Alluvium 3 Outwash/Lacustrine deposits 7 Local overwash 4 Eolian sand B. SLOPE 1 0-2% 5 19-25% 2 3-6% 6 26-35% 3 7-12% 7 >35%

C. LANDFORM	<ol><li>6. Outwash/Lacustrine swell</li></ol>
1 Upland hillslope	7 Outwash/Lacustrine flat
2 Upland swell	8 Outwash/Lacustrine depression
3 Upland flat	9 Dune
4 Upland depression	10 Flood plain

11 Filled depression

# D. SURFACE SOIL COLOR GROUP

5 Outwash/Lacustrine hillslope

1 Gray

4 13-18%

- 2 Brown
- 3 Black

#### E. PREVIOUS EROSION

- 1 None to slight
- 2 Moderate
- 3 Severe

#### F. SURFACE TEXTURE

- 1 Sandy
- 2 Moderately sandy
- 3 Medium
- 4 Moderately clayey
- 5 Clayey

# G. SUBSOIL TEXTURE

- 1 Sandy
- 2 Moderately sandy
- 3 Medium
- 4 Moderately clayey
- 5. Clayey

# H. NATURAL SOIL DRAINAGE

- 1 Poorly
- 2 Somewhat poorly
- 3 Moderately well
- 4 Well

#### I. LIMITING LAYER

5 Fragipan, 0-20 in

1	Bedrock, 0-20 in	6	Fragipan, 21-40 in
2	Bedrock, 21-40 in	7	Coarse sand & gravel, 0-20 in
3	Dense till, 0-20 in	8	Coarse sand & gravel, 21-40 in
4	Dense till 21-40 in	9	None within 40 in

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## II. AGRICULTURE PRACTICES (3 points each, 69 total)

### A. LAND USE OVERVIEW

1 Restore original vegetation to:

A - Wetland; B - Prairie; C - Mesic forest

Yes No

2 A B Prime farmland

#### **B. EROSION AND COMPACTION POTENTIALS**

3	Α	В	High for erosion by water
4	Α	В	High for erosion by wind
5	Α	В	High for soil compaction

#### C. BUFFERS AND COVER CROPS

6	Α	В	Grassed waterways
7	Α	В	Windbreaks
8	Α	В	Filter strips
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9 Most significant benefit of cover crops:

A - Scavenge N; B - No need; C - Erosion control

#### D. CROPPING PRACTICES

`	⁄es	No	
10	Α	В	Timber stand improvement (TSI)
11	Α	В	Permanent pasture
12	Α	В	Crop rotation

#### **E. TILLAGE PRACTICES**

13	Α	В	No til

14 A B Moldboard or chisel plowing

# F. WATER MANAGEMENT

15	Α	В	Drainage
16	Α	В	Irrigation
17	Α	В	Terraces

### **G. PLANT NUTRIENT APPLICATION**

		Α	В	С
18	N:	Low	Med.	High
19	P:	Add	None	Deplete
20	K:	Add	None	Deplete
21	Lime:	Add	None	

### H. NUTRIENT POLLUTION POTENTIAL

22 Nitrogen pollution potential:

A – High, groundwater; B – High, surface water; C – Med.

23 Phosphorus pollution potential:

A - High; B - Medium; C - Low

Team / Contestant number:	
Contestant name:	
School / Club name:	
Site number:	
SCORE	
Part 1 (45 points possible):	
Part 1 (45 points possible):	