

Indiana Soil Evaluation Scorecard

4-H-394-W

AGRICULTURE

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

A. PARENT MATERIAL 1A Weathered bedrock 1B Till 1D Eolian sand 1E Loess

Outwash/Lacustrine 2A Alluvium deposits 2B Local overwash

B. SLOPE

3A	0-2%	3E	19-25%
3B	3-6%	4A	26-35%
3C	7-12%	4B	>35%
3D	13-18%		

C. LANDFORM

5B 5C	Upland hillslope Upland swell Upland flat Upland depression	6A 6B 6C	Outwash/Lacustrine swell Outwash/Lacustrine flat Outwash/Lacustrine depression
5E	Outwash/Lacustrine hillslope	6D 6E	Dune Flood plain

7A Filled depression

D. SURFACE SOIL COLOR GROUP

- 8A Gray
- 8B Brown
- 8C Black

E. PREVIOUS EROSION

- 9A None to slight
- 9B Moderate
- 9C Severe

F. SURFACE TEXTURE

- 10A Sandy
- 10B Moderately sandy
- 10C Medium
- 10D Moderately clayey
- 10E Clayey

G. SUBSOIL TEXTURE

- 11A Sandy
- 11B Moderately sandy
- 11C Medium
- 11D Moderately clayey
- 11E Clayey

H. NATURAL SOIL DRAINAGE

- 12A Poorly
- 12B Somewhat poorly
- 12C Moderately well
- 12D Well

I. LIMITING LAYER

 13B Bedrock, 21-40 in
 14B Coarse sand & gravel, 0-20 in

 13C Dense till, 0-20 in
 14C Coarse sand & gravel, 21-40 in

13D Dense till, 21-40 in 14D None within 40 in

13E Fragipan, 0-20 in

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II. AGRICULTURE PRACTICES (3 pts. each, 69 total)

A. LAND USE OVERVIEW

15 Restore original vegetation to:

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

Yes No

16 A B Prime farmland

B. EROSION AND COMPACTION POTENTIALS

17 A	В	High for erosion by water
18 A	В	High for erosion by wind
19 A	В	High for soil compaction

C. BUFFERS AND COVER CROPS

20 A B Grassed waterways21 A B Windbreaks22 A B Filter strips

23 Most significant benefit of cover crops:

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

D. CROPPING PRACTICES

Yes No

24 A B Timber stand improvement (TSI)

25 A B Permanent pasture 26 A B Crop rotation

E. TILLAGE PRACTICES

27 A B No till

28 A B Moldboard or chisel plowing

F. WATER MANAGEMENT

29 A B Drainage 30 A B Irrigation 31 A B Terraces

G. PLANT NUTRIENT APPLICATION

		Α	В	C
32	N:	Low	Med.	High
33	P:	Add	None	Deplete
34	K:	Add	None	Deplete
35	Lime:	Add	None	

H. NUTRIENT POLLUTION POTENTIAL

36 Nitrogen pollution potential:

A - High, ground water; B - High surface water; C - Med.

37 Phosphorus pollution potential:

A - High; B - Medium; C - Low

ream / Contestant number:	
Contestant name:	
School / Club name:	
Site number:	
SCORE	
SCORE	
Part I (45 points possible):	