

Land Area

1  
2  
3  
4

Contestant Number

0	0	0	A
1	1	1	B
2	2	2	C
3	3	3	D
4	4	4	E
5	5	5	F
6	6	6	G
7	7	7	H
8	8	8	I
9	9	9	J

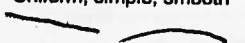

# MICHIGAN FFA LAND CONSERVATION SCORECARD

CHAPTER NAME: Helpful Hints Sheet!

TOTAL SCORE

## PART ONE - PHYSICAL FEATURES OF SOIL

Check ONE description in EACH of the 7 physical features.

1. Surface Texture	<input checked="" type="radio"/> Fine <sup>+ 1 1/2"</sup> Clay, clay loam, silty clay loam, sandy clay loam	<input type="radio"/> Medium Silt loam, loam 1 1/2" - 3/4"	<input type="radio"/> Moderately Coarse 3 1/4" - 1/2" Sandy loam, loamy Sand	<input type="radio"/> Coarse Sand no ribbon	<input type="radio"/> Organic Mucks and Peats greasy black	
2. Subsoil Texture	<input type="radio"/> Fine Clay, clay loam, silty, clay loam, sandy clay loam	<input type="radio"/> Medium Silt loam, loam	<input type="radio"/> Moderately Coarse Sandy loam, loamy Sand	<input type="radio"/> Coarse Sand	<input type="radio"/> Organic Mucks and Peats	
3. Color of Surface Layer	<input type="radio"/> Dark High organic matter content, very dark brown or black Select only black		<input type="radio"/> Medium Moderate organic matter content, dark gray or dark grayish brown		<input type="radio"/> Light Low organic matter content, light gray, light grayish brown or pale brown	
4. Color of Subsoil	<input type="radio"/> Bright Solid red, yellow or brown colors predominate. Indicates naturally well drained conditions and artificial drainage usually not needed.		<input type="radio"/> Mottled Mixed yellow and brown colors with some grays. Rust brown and orange spots are common. Indicates naturally somewhat poorly drained conditions and artificial drainage usually needed if cropped.		<input type="radio"/> Dull Grays predominate with some rust brown spots. Indicates naturally poorly drained conditions and artificial drainage most always needed if cropped.	
5. Slope Steepness	<input type="radio"/> Nearly Level 0-2 ft. fall in 100 ft.	<input type="radio"/> Gently Sloping 2-6 ft. fall in 100 ft.	<input type="radio"/> Moderately Sloping 6-12 ft. fall in 100 ft.	<input type="radio"/> Strongly Sloping 12-18 ft. fall in 100 ft.	<input type="radio"/> Steep 18-25 ft. fall in 100 ft.	<input type="radio"/> Strongly Sloping Over 25 ft. fall in 100 ft.
6. Erosion Based on Present Surface Layer	<input type="radio"/> Slight Mainly original surface soil		<input type="radio"/> Moderate Mixture of original surface soil and subsoil	<input type="radio"/> Severe Mainly subsoil. May have gullies or blowouts		<input type="radio"/> Very Severe Severely gullied or deep blowouts
7. Type of Slope	<input type="radio"/> Regular Uniform, simple, smooth 		<input type="radio"/> Irregular Uneven, complex, wavy 		Your Score <input type="text"/>	

## PART TWO - PROBLEMS WHICH AFFECT THE USE AND MANAGEMENT OF THE AREA

Check the MOST important problems.

Number of problems to be selected

- |  |  |   |
|--|--|---|
| <input type="radio"/> 1. Soil Structure - always       | <input type="radio"/> 5. Wet Spots - water                       | <input type="radio"/> 9. Water Erosion                  |
| <input type="radio"/> 2. Droughty - sand sub soil      | <input type="radio"/> 6. Seasonal Flooding - river/ditch present | <input type="radio"/> 10. Organic Matter - if not black |
| <input type="radio"/> 3. Stony                         | <input type="radio"/> 7. Slope                                   | <input type="radio"/> 11. Permeability - clay sub soil  |
| <input type="radio"/> 4. Drainage medium/dull sub soil | <input type="radio"/> 8. Wind Erosion sandy surface soil         | Your Score <input type="text"/>                         |


CONTESTANT

(Choose 1)

**PART THREE - AGRICULTURAL LAND USE**

(use slope)


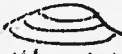
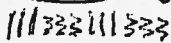


Select the Most Intensive Safe Use

- 1. Continuous row crops → 0-2
- 2. A rotation which includes legumes and grasses, 1/5 or 1/3 of the time. → 2-6
- 3. A rotation which includes legumes and grasses, 1/2 or 3/5 of the time. → 6-12
- 4. A rotation which includes legumes and grasses, 3/4 to 4/5 of the time. (occasional row crop) → 12-18
- 5. Continuous sod crops.
- 6. Orchard crops. → hilly, well draining 
- 7. Woodland.

Your Score

**PART FOUR - RECOMMENDED MANAGEMENT AND CONSERVATION PRACTICES FOR AGRICULTURAL USES**

(Based on most intensive safe use) Choose practices which are most needed.

- 1. Grass waterways  water erosion
- 2. Contour tillage.  water erosion
- 3. Strip cropping.  wind erosion
- 4. Conservation tillage. ALWAYS
- 5. Terraces or diversions.  wind break
- 6. Windbreaks and/or vegetative barriers for erosion control. 
- 7. Install and/or maintain artificial drainage. dull, mottled subsoil
- 8. Barnyard manure if available. Phos. < 300
- 9. Liming materials. pH < 6.5
- 10. Apply phosphorus fertilizer. < 79
- 11. Apply potassium fertilizer. < 299
- 12. Cover and green-manure crops. ALWAYS
- 13. Return all crop residues to the soil. ALWAYS
- 14. Establish and/or maintain legume-grass mixture for continuous sod crops or pasture, reseeding only when necessary. 12-18° Slope
- 15. Establish and/or maintain grasses for permanent cover, reseeding only when necessary. 12-18 slope
- 16. Managed grazing of pasture for erosion control. 12-18 slope
- 17. Top dress established legumes with phosphorus. < 79
- 18. Top dress established legumes with potassium. < 299
- 19. Top dress permanent grass vegetation with commercial nitrogen. if 14, 15, 16 marked
- 20. Eradicate brush. lots of junk
- 21. Special plantings for wildlife food and cover. (deer) no continuous row crops
- 22. Plant adapted species of trees. hilly
- 23. Protect trees and shrub areas from grazing and burning. hilly + trees
- 24. Manage woods - prune, harvest, cull. hilly + trees

Your Score

**PART FIVE - SUITABILITY FOR NON-AGRICULTURAL USES**

Choose uses for which this land is especially satisfactory.

- 1. Septic tank disposal field. bright, no clay
- 2. Residential development without sanitary or storm sewers. bright, no clay
- 3. Residential development with sanitary or storm sewers. bright, clay
- 4. Streets and roads. bright, no clay, 0-12 slope
- 5. Playgrounds. bright, no clay, 0-6 slope
- 6. Paths and trails or golf courses. bright or mottled
- 7. Woodland wildlife area. bright or mottled
- 8. Open land wildlife area. all colors
- 9. Wet land wildlife area. dark, flat
- 10. Excavated pond. dark, flat

Your Score

**SUGGESTIONS FOR SCORING**

To avoid complications and misunderstandings, a definite method of conducting and scoring is highly desirable. It is suggested that the judging committee meet ahead of time (1) to decide upon the correct placings and answers for each land area, and (2) how the points will be allocated in each part of the scorecard. The method of scoring should be explained before the judging begins. It is suggested that one point be given for each answer.

(on card)

(on card)