

## LAND USE AND MANAGEMENT CDE

Martin Heyler  
Cowanesque Valley HS

The "Land Use and Management" manual provides detailed instructions for using the score card (November 1, 1990 edition). Available from Publications Distribution Center, Room 112 Ag. Admin. Building, The Pennsylvania State University, University Park, PA 16802.

The members of the team can only attend the National Contest in Oklahoma City one time. No graduated seniors may attend the National Contest in Oklahoma City. The National Land, Range, and Pasture Judging Contest held in Oklahoma City, Oklahoma prohibits high school graduates from entering team or individual competition in the FFA division. Therefore, the PA FFA Land Use and Management CDE prohibits from team competition any member who is a high school senior. A member who is currently a senior in high school may compete as an individual at the State level CDE.

Four different sites will be judged in the contest. When judging land, decisions are made through sight and touch. The land judging scorecard developed for Pennsylvania is divided into four parts. Scoring notes are those used in the state contest. Teachers may decide to weigh parts differently in local contests.

Part I. The features of the land and soil are evaluated and the statement which best describes the physical feature is checked in each of the six columns.

Scoring: Total score 36 (6 for each property). If off one from the correct selection, a score of three points for each property will be given. If off more than one, no points will be given.

Part II. In this part, Capability class and Subclass will be assigned based on evaluation of soil properties in Part I.

Scoring: Total score 15 (10 for capability and 5 for subclass). If off by one for capability class, a score of five points will be given. If off by more than one capability class, no points will be given. For subclasses, no points will be awarded unless the answer is correct.

Part III. This part deals with land use and conservation practice alternatives.

Scoring: Total score 25 (10 for land use - 5 each if there are two alternatives). Add 15 points for conservation practices.

Part IV. This section deals with hazards for special uses. Contestants will be given the number of factors to check under each special use category. Select from the list those items which limit the use of the site in each of the four categories.

Scoring: Total score 24 (four areas at six points each).

Site Number \_\_\_\_\_

Total Score \_\_\_\_\_

LAND USE AND MANAGEMENT SCORECARD

Contestant's Name \_\_\_\_\_ Number \_\_\_\_\_ Age \_\_\_\_\_

School \_\_\_\_\_ Parents' Name \_\_\_\_\_

County \_\_\_\_\_ Home Address \_\_\_\_\_

Teacher(s) \_\_\_\_\_ Home Phone \_\_\_\_\_

Part I: EVALUATION OF AG SOIL PROPERTIES

Part I (maximum points 36) Score \_\_\_\_\_

(Circle the number for the one correct description in each column A through F)

A (6 points)  
LAND SLOPE

- 1. Nearly Level  
0-3% - A
- 2. Gently Sloping  
3-8% - B
- 3. Moderately Sloping  
8-15% - C
- 4. Strongly Sloping  
15-25% - D
- 5. Steep  
25-35% - E
- 6. Very Steep  
Greater than 35% - F

B (6 points)  
SURFACE STONINESS

- 1. Slight  
Less than 5%
- 2. Severe  
5-15%
- 3. Very Severe  
Greater than 15%

C (6 points)  
SURFACE TEXTURE

- 1. Medium  
Loamy, smooth
- 2. Light (coarse)  
Sandy or Gravelly
- 3. Heavy (fine)  
Clayey--sticky when wet

D (6 points)  
SUBSURFACE  
TEXTURE

- 1. Medium
- 2. Light
- 3. Heavy

E (6 points)  
TOTAL SOIL DEPTH  
TO BEDROCK

- 1. Deep
- 2. Moderately Deep
- 3. Shallow

F (6 points)  
INTERNAL DRAINAGE  
(DEPTH TO MOTTLING)

- 1. Well drained
- 2. Moderately Well
- 3. Somewhat Poorly & Poorly
- 4. Very Poorly Drained

Slope Length \_\_\_\_\_ feet (slope length will be given at the contest site)

Part II: AG LAND CAPABILITY CLASS AND SUBCLASS

Part II (maximum points 15) Score \_\_\_\_\_

Capability Class (10 points) \_\_\_\_\_ Subclass (5 points) \_\_\_\_\_

Part III: SELECTION OF AG LAND USE CONSERVATION PRACTICES AND ALTERNATIVES

Part III (maximum points 25) Score \_\_\_\_\_

Land Use (10 points) Alternative 1 \_\_\_\_\_  
Alternative 2 \_\_\_\_\_

Conservation Practices (15 points--choose numbers from the following list of factors)

Number of factors \_\_\_\_\_ Alternative 1 \_\_\_\_\_  
Number of factors \_\_\_\_\_ Alternative 2 \_\_\_\_\_

Conservation Practices and Land Capability Factors:

A. CROPLAND

1. Grassed waterway
2. Cropland terraces
3. Diversions
4. Surface drainage
5. Subsurface drainage
6. Structures for water control
7. Underground outlets
8. Contour farming
9. Contour strip cropping
10. Residue management/winter cover cropping
11. Conservation tillage
12. Grasses & legumes in rotation
13. Lime & fertilize to soil test

B. PASTURE

14. Pasture & hayland planting
15. Management including lime, fertilize to test, planned grazing, and control of woody vegetation
16. Conservation tillage (for renovation)

C. WOODLAND

17. Plant recommended trees
18. Protect trees from grazing/burning
19. Woodland management
20. Woodland harvesting
21. Erosion control on woodland

D. WILDLIFE/RECREATION

22. Upland wildlife habitat management
23. Wetland wildlife habitat management
24. Stabilization and Enhancement

Part IV: URBAN LAND USE (circle the limiting factor/s)

Part IV (maximum points 24) Score \_\_\_\_\_

A. HOME SITE WITH BASEMENT (6 points)  
\_\_\_\_\_ Number of Factors

1. Slope
2. Internal drainage
3. Subsurface texture
4. Flooding
5. Stoniness (surface or within profile)
6. Stability
7. Depth
8. None

B. SEPTIC TANK DISPOSAL FIELD (6 points)  
\_\_\_\_\_ Number of Factors

1. Slope
2. Depth
3. Internal drainage
4. Flooding
5. Ground water pollution
6. Stoniness (within profile)
7. None

C. URBAN EROSION POTENTIAL  
(6 points)

\_\_\_\_\_ Number of Factors

1. Slope
2. Slope length
3. Texture
4. Total depth
5. Internal drainage
6. Vegetation and/or mulch
7. None

D. PONDS FOR RECREATION OR  
AGRICULTURE (6 points)

\_\_\_\_\_ Number of Factors

1. Slope
2. Depth
3. Subsurface texture
4. Internal drainage
5. Stoniness (within profile)
6. None