

Jay Copeland Farm

Anderson, SC

10-29-09

Piedmont Soils

CONDITIONS OF FIELD

Field #1

1. Assumed soil test. pH 5.2 Phosphate High Potash High
2. Pay no attention to practices on field.
3. Thickness of original top soil was 10"
4. Field to consider is 50 acres Cultivated
5. Consider the (most intensive) (best) use of the land.
6. Other conditions are Watermelon farm
7. Use 10 practices in Part II.

Field # 2

1. Assumed soil test. pH 5.4 Phosphate High Potash Medium
2. Pay no attention to practices on field.
3. Thickness of original top soil was 20"
4. Field to consider is 150 acres hereford farm
5. Consider the (most intensive) (best) use of the land.
6. Other conditions are Similar to area around pit; stream in field; wildlife
7. Use 10 practices in Part II. interest

Field # 3

1. Assumed soil test. pH 5.6 Phosphate High Potash Medium
2. Pay no attention to practices on field.
3. Thickness of original top soil was 2"
4. Field to consider is 75 acres Corn
5. Consider the (most intensive) (best) use of the land.
6. Other conditions are Subject to flooding; Similar to area around pit
7. Use 11 practices in Part II.

Field # 4

1. Assumed soil test. pH 5.6 Phosphate High Potash Medium
2. Pay no attention to practices on field.
3. Thickness of original top soil was 25"
4. Field to consider is 50 acres 14 year old loblolly stand
5. Consider the (most intensive) (best) use of the land.
6. Other conditions are 100 ft. from edge of corn field; close to road;
7. Use 4 practices in Part II. stream running through property

Judge area between flows

Group No. _____ Field No. 1
Indicate answer by X in the square with number

SOIL JUDGING SCORE CARD

CONTESTANT NUMBER _____

Part I Land Class Factors

A. SLOPE

4

- 1. Nearly level
- 2. Gently sloping
- 3. Sloping
- 4. Strongly sloping
- 5. Moderately steep
- 6. Steep
- 7. Very steep

3.8%

B. EROSION --WIND & WATER

4

- 1. Alluvial or Colluvial deposits
- 2. None to slight
- 3. Moderate
- 4. Severe
- 5. Very severe/Gullied

8" now
16" original

C. ROOTING DEPTH

3

- 1. Deep
- 2. Moderately deep
- 3. Shallow
- 4. Very shallow

D. SURFACE TEXTURE

3

- 1. Coarse
- 2. Light
- 3. Medium
- 4. Fine

SCL

E. PERMEABILITY

4

- 1. Very rapid
- 2. Rapid
- 3. Moderate
- 4. Slow

F. DRAINAGE

3

- 1. Excessive
- 2. Good
- 3. Fair
- 4. Poor
- 5. Very poor

G. Major Factors-
Considered in selecting Land
Capability

2

- 1. Slope
- 2. Erosion
- 3. Depth
- 4. Texture
- 5. Permeability
- 6. Drainage

H. LAND CAPABILITY CLASS
AND SUBCLASS IF NEEDED

5

- 1. Class I
 - 2. Class II
 - 3. Class III
 - 4. Class IV
 - 5. Class V
 - 6. Class VI
 - 7. Class VII
 - 8. Class VIII
- E
 - S
 - W

Part II

Recommended Land
Treatments---Needed for
different land capability
classes

Score

3

USE

- 1. Cultivated cropland
- 2. Pastureland
- 3. Hayland (Perennials)
- 4. Forestland
- 5. Wildlife land

3

VEGETATIVE

3

- 6. Conservation crop rotation
- 7. Establish strips for wind erosion control
- 8. Do not burn crop residue
- 9. Conservation tillage
- 10. Plant wildlife food strips and/or plots
- 11. Conservation buffer
- 12. Re-establish pasture & / or repair
- 13. Mow or spray pasture or perennials for weed control
- 14. Topseed winter annuals on pasture
- 15. Control grazing
- 16. Thin trees selectively
- 17. Clear-cut and plant to trees
- 18. Pest management
- 19. Planting of native grasses, legumes, and shrubs
- 20. Early successional habitat development/management
- 21. Hedgerow establishment
- 22. Tree planting for wildlife habitat
- 23. Thinning of forestland for wildlife habitat

3

3

3

MECHANICAL

- 24. Farm on contour
- 25. Terrace and farm on contour
- 26. Establish grassed waterways
- 27. Establish drainage system
- 28. Provide water facilities for livestock
- 29. Establish fire breaks
- 30. Control brush or trees
- 31. Control burn
- 32. Streamside management zone

3

3

LIME AND FERTILIZER

- 33. Apply limestone
- 34. Apply nitrogen
- 35. Apply phosphate
- 36. Apply potash

SCORE PART I
30 (Possible 30)

SCORE PART II
30 (Possible 30)

TOTAL SCORE
(Possible 60) 60

Group No. _____ Field No. 2
 Indicate answer by X in the square with number

SOIL JUDGING SCORE CARD

CONTESTANT NUMBER _____

Part I Land Class Factors

A. SLOPE

- 1. Nearly level
- 2. Gently sloping
- 3. Sloping 7.3%
- 4. Strongly sloping
- 5. Moderately steep
- 6. Steep
- 7. Very steep

4

B. EROSION -WIND & WATER

- 1. Alluvial or Colluvial deposits
- 2. None to slight
- 3. Moderate 3" new
- 4. Severe 20" original
- 5. Very severe/Gullied

4

C. ROOTING DEPTH

- 1. Deep
- 2. Moderately deep
- 3. Shallow
- 4. Very shallow

4

D. SURFACE TEXTURE

- 1. Coarse
- 2. Light
- 3. Medium CL
- 4. Fine

4

E. PERMEABILITY

- 1. Very rapid
- 2. Rapid
- 3. Moderate
- 4. Slow

3

F. DRAINAGE

- 1. Excessive
- 2. Good
- 3. Fair
- 4. Poor
- 5. Very poor

3

G. Major Factors- Considered in selecting Land Capability

- 1. Slope
- 2. Erosion
- 3. Depth
- 4. Texture
- 5. Permeability
- 6. Drainage

1
1
1

H. LAND CAPABILITY CLASS AND SUBCLASS IF NEEDED

- 1. Class I
- 2. Class II
- 3. Class III
- 4. Class IV E
- 5. Class V S
- 6. Class VI W
- 7. Class VII
- 8. Class VIII

5

Part II

Recommended Land Treatments--Needed for different land capability classes

Score

3

USE

- 1. Cultivated cropland
- 2. Pastureland
- 3. Hayland (Perennials)
- 4. Forestland
- 5. Wildlife land

VEGETATIVE

- 6. Conservation crop rotation
- 7. Establish strips for wind erosion control
- 8. Do not burn crop residue
- 9. Conservation tillage
- 10. Plant wildlife food strips and/or plots
- 11. Conservation buffer
- 12. Re-establish pasture & / or repair
- 13. Mow or spray pasture or perennials for weed control
- 14. Topseed winter annuals on pasture
- 15. Control grazing
- 16. Thin trees selectively
- 17. Clear-cut and plant to trees
- 18. Pest management
- 19. Planting of native grasses, legumes, and shrubs
- 20. Early successional habitat development/management
- 21. Hedgerow establishment
- 22. Tree planting for wildlife habitat
- 23. Thinning of forestland for wildlife habitat

3

3

3

3

3

3

MECHANICAL

- 24. Farm on contour
- 25. Terrace and farm on contour
- 26. Establish grassed waterways
- 27. Establish drainage system
- 28. Provide water facilities for livestock
- 29. Establish fire breaks
- 30. Control brush or trees
- 31. Control burn
- 32. Streamside management zone

LIME AND FERTILIZER

- 33. Apply limestone
- 34. Apply nitrogen
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- 36. Apply potash

3

3

3

SCORE PART I
30 (Possible 30)

SCORE PART II
30 Possible 30)

TOTAL SCORE
 (Possible 60) _____

Group No. _____ Field No. 3
 Indicate answer by X in the square with number

CONTESTANT NUMBER _____

Part I Land Class Factors

A. SLOPE

- 4
- 1. Nearly level
 - 2. Gently sloping *0.0%*
 - 3. Sloping
 - 4. Strongly sloping
 - 5. Moderately steep
 - 6. Steep
 - 7. Very steep

B. EROSION -WIND & WATER

- 4
- 1. Alluvial or Colluvial deposits
 - 2. None to slight *2" now*
 - 3. Moderate
 - 4. Severe *2" original*
 - 5. Very severe/Gullied *subject to grading*

C. ROOTING DEPTH

- 3
- 1. Deep
 - 2. Moderately deep
 - 3. Shallow
 - 4. Very shallow

D. SURFACE TEXTURE

- 4
- 1. Coarse
 - 2. Light *CL*
 - 3. Medium
 - 4. Fine

E. PERMEABILITY

- 4
- 1. Very rapid
 - 2. Rapid
 - 3. Moderate
 - 4. Slow

F. DRAINAGE

- 4
- 1. Excessive
 - 2. Good
 - 3. Fair *8" - grass*
 - 4. Poor
 - 5. Very poor

G. Major Factors- Considered in selecting Land Capability

- 2
- 1. Slope
 - 2. Erosion
 - 3. Depth
 - 4. Texture
 - 5. Permeability
 - 6. Drainage

H. LAND CAPABILITY CLASS AND SUBCLASS IF NEEDED

- 5
- 1. Class I
 - 2. Class II
 - 3. Class III
 - 4. Class IV
 - 5. Class V
 - 6. Class VI
 - 7. Class VII
 - 8. Class VIII
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 S
 W

Part II

Recommended Land Treatments--Needed for different land capability classes

Score
3

USE

- 1. Cultivated cropland
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- 5. Wildlife land

VEGETATIVE

3

- 6. Conservation crop rotation
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- 32. Streamside management zone

LIME AND FERTILIZER

2
2
2

- 33. Apply limestone
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SCORE PART I
30 (Possible 30)

SCORE PART II
30 Possible 30)

TOTAL SCORE
 (Possible 60) _____

Jay Copeland Farm

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380 8193 N

Group No. _____ Field No. 4
Indicate answer by X in the square with number

SOIL JUDGING SCORE CARD

CONTESTANT NUMBER _____

Part I Land Class Factors

A. SLOPE

- 1. Nearly level
- 2. Gently sloping
- 3. Sloping
- 4. Strongly sloping
- 5. Moderately steep
- 6. Steep
- 7. Very steep

4

13.5%

B. EROSION -WIND & WATER

- 1. Alluvial or Colluvial deposits
- 2. None to slight
- 3. Moderate
- 4. Severe
- 5. Very severe/Gullied

4

5" now
25" original

C. ROOTING DEPTH

- 1. Deep
- 2. Moderately deep
- 3. Shallow
- 4. Very shallow

3

D. SURFACE TEXTURE

- 1. Coarse
- 2. Light
- 3. Medium
- 4. Fine

3

CL

E. PERMEABILITY

- 1. Very rapid
- 2. Rapid
- 3. Moderate
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F. DRAINAGE

- 1. Excessive
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- 4. Poor
- 5. Very poor

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Considered in selecting Land Capability

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5

Part II

Recommended Land Treatments—Needed for different land capability classes

Score

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SCORE PART II
30 (Possible 30)

TOTAL SCORE
(Possible 60) 60