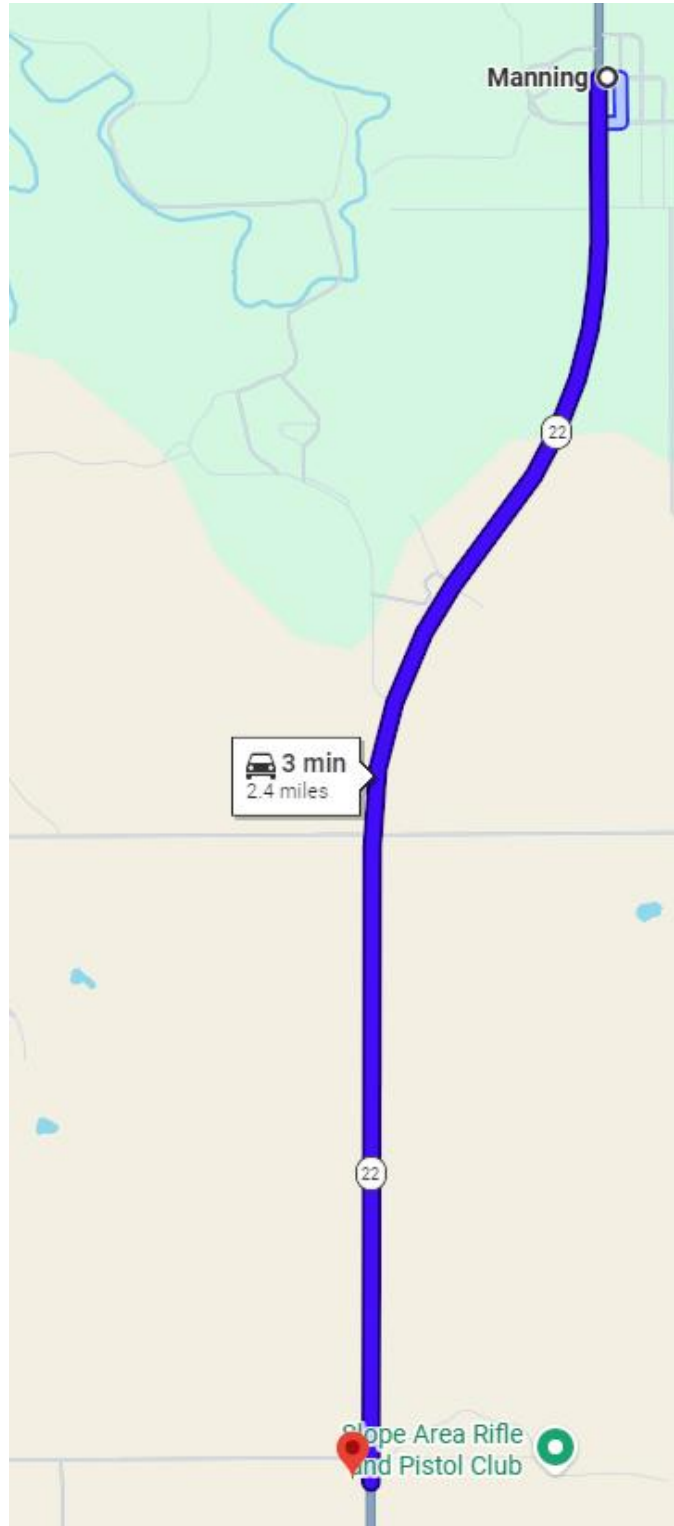


North Dakota FFA and 4-H State Land Judging

Directions to the Practice Pits

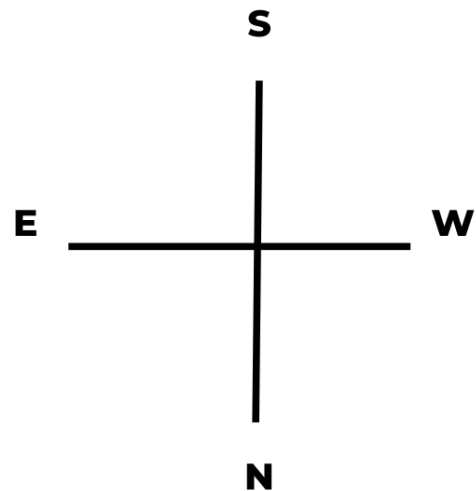
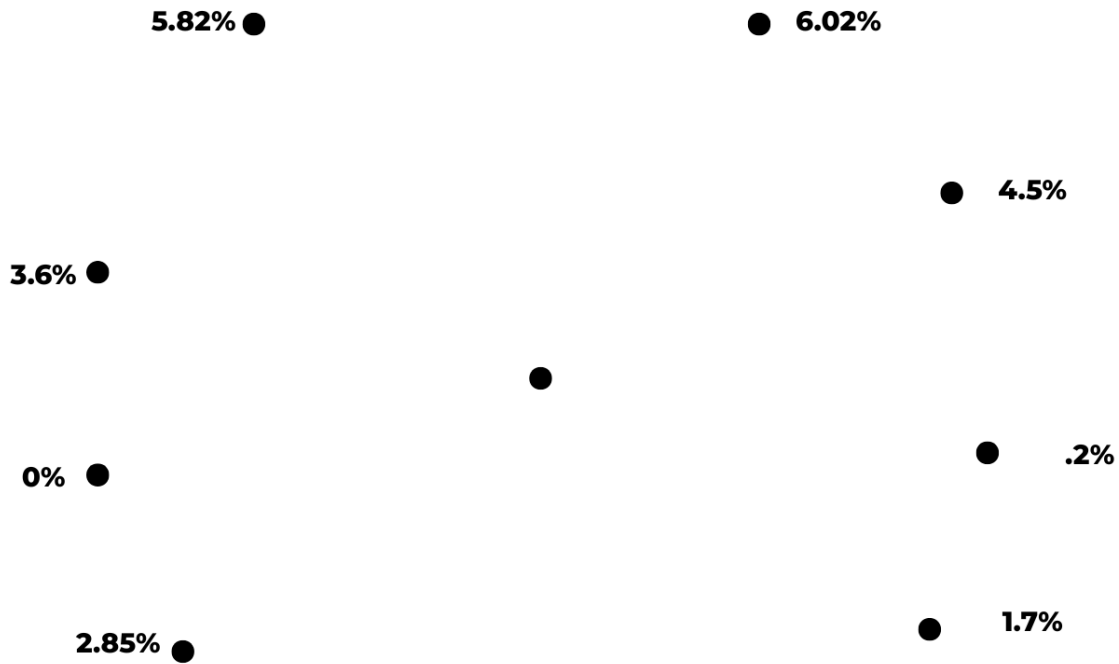
2.4 Miles South of Manning ND on west side of the road. Physical copies will be available here: GPS of northeast corner of practice site. 47.19745082 N 102.779025 W. A tote containing all materials will be available near the gate marked by a feather flag. Digital copies will be available at the QR code.

Vehicles should park on the south side of the road. Please do not drive into the site.



Scan for Practice Site Information

PRACTICE SLOPE



North Dakota Land Judging Score Card

Part I – Land Class Factors

Indicate your answer by placing an X in the proper space.

A. Surface Texture (6 points)

- ☐ 1. Coarse
- ☐ 2. Moderately coarse
- ☐ 3. Medium
- ☐ 4. Moderately fine
- ☒ 5. Fine

B. Permeability (internal drainage) (6 points)

- ☐ 1. Very Slow *Redox Depletion*
- ☐ 2. Slow *@ 25 in*
- ☒ 3. Moderate
- ☐ 4. Rapid *M F*

C. Depth of soil (6 points)

- ☒ 1. Deep *No restrictions Pit 43 in deep*
- ☐ 2. Moderately deep *Roots 25 in*
- ☐ 3. Shallow
- ☐ 4. Very shallow

D. Slope (6 points)

- ☒ 1. Nearly level 0-3% *2%*
- ☐ 2. Gently sloping 3.1-6%
- ☐ 3. Moderately sloping 6.1-9%
- ☐ 4. Strongly sloping 9.1-12%
- ☐ 5. Steep 12.1-15%
- ☐ 6. Very steep 15.1+%

E. Present topsoil soil thickness (5 points) *2.5 in*

- ☒ 1. 0-6 inches
- ☐ 2. 6.1-12 inches
- ☐ 3. 12.1-18 inches
- ☐ 4. 18.1+ inches

F. Past erosion (4 points) *8 in original topsoil*

- ☐ 1. None to slight
- ☒ 2. Moderate *$\frac{8-2.5}{8} \times 100 = 69\%$*
- ☐ 3. Severe
- ☐ 4. Very severe

G. Wind erosion hazard (4 points)

- ☐ 1. Low
- ☒ 2. Moderate
- ☐ 3. High
- ☐ 4. Very high

H. Water erosion hazard (4 points)

- ☒ 1. Low
- ☐ 2. Moderate
- ☐ 3. High
- ☐ 4. Very high

I. Saltiness (salinity) (4 points)

- ☒ 1. Not affected
- ☐ 2. Slight
- ☐ 3. Moderate
- ☐ 4. Severe

J. Surface runoff (5 points)

- ☐ 1. Very slow
- ☐ 2. Slow
- ☒ 3. Moderate
- ☐ 4. Rapid

K. Major factors that keep area out of Class I (10 points)

- ☒ 1. Climate
- ☐ 2. Surface texture
- ☐ 3. Depth of soil
- ☐ 4. Slope
- ☒ 5. Past erosion
- ☒ 6. Erosion hazard
- ☐ 7. Saltiness (salinity)
- ☐ 8. Surface runoff
- ☐ 9. Permeability
- ☐ 10. Wetness

L. Land Capability Class (10 points)

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

SCORE _____

North Dakota Land Judging Score Card

Part II – Recommended Land Treatments

Indicate your answer by placing an X in the proper space.

Vegetative Treatments – 10 points; 2 points deducted for each incorrect answer or omission

1. Use soil-conserving and/or soil-improving crops
 - () a. every 4th or 5th year
 - (X) b. every 3rd of 4th year
 - () c. every 2nd year
 - () d. every year
- (X) 2. Practice crop residue management
- (X) 3. Practice conservation tillage
- () 4. Establish recommended grass mixture
- () 5. Use proper pasture and range management
- () 6. Plant pattern-type tree windbreaks
- (X) 7. Use cover crop or annual buffer strips
- () 8. Use only for wildlife or recreation
- () 9. Use tame grass/crop rotation

Mechanical Treatments – 10 points; 2 points deducted for each incorrect answer or omission

- (X) 10. Use no summer fallow
- (X) 11. No fall tillage recommended
- () 12. Fill, shape and seed waterways
- () 13. Establish diversion terrace
- (X) 14. Practice wind-strip cropping
- () 15. Practice contour-strip cropping
- () 16. No-till production recommended

Fertility – 10 points; 2 points deducted for each incorrect answer or omission

- () 17. Apply lime pH 7.2, carbonates present
- () 18. Apply nitrogen Sufficient – soybean intended
- () 19. Apply phosphorus 12 ppm
- () 20. Apply potassium 170 ppm
- (X) 21. Fertilizer not needed

Present Use: Wheat
Intended Use: Soybean

SCORE _____

Site No. 1 Your name or number _____

Score Part I _____

Score Part II _____

Total score _____

North Dakota Land Judging Score Card

Part I – Land Class Factors

Indicate your answer by placing an X in the proper space.

A. Surface Texture (6 points) *Fine*

- ☐ 1. Coarse
- ☐ 2. Moderately coarse
- ☐ 3. Medium
- ☐ 4. Moderately fine
- ☒ 5. Fine

B. Permeability (internal drainage) (6 points)

- ☒ 1. Very Slow *Fine*
- ☐ 2. Slow *Redox @ 25 in*
- ☐ 3. Moderate *Depletion @ 25 in*
- ☐ 4. Rapid

C. Depth of soil (6 points)

- ☒ 1. Deep *pit 43 inches Deep*
- ☐ 2. Moderately deep *22 in roots*
- ☐ 3. Shallow
- ☐ 4. Very shallow

D. Slope (6 points)

- ☐ 1. Nearly level 0-3%
- ☒ 2. Gently sloping 3.1-6% *5.3%*
- ☐ 3. Moderately sloping 6.1-9%
- ☐ 4. Strongly sloping 9.1-12%
- ☐ 5. Steep 12.1-15%
- ☐ 6. Very steep 15.1+%

E. Present topsoil soil thickness (5 points)

- ☒ 1. 0-6 inches *2 in*
- ☐ 2. 6.1-12 inches
- ☐ 3. 12.1-18 inches
- ☐ 4. 18.1+ inches

F. Past erosion (4 points)

- ☐ 1. None to slight *3 in*
- ☒ 2. Moderate *$\frac{3-2}{3} \times 100 = 33\%$*
- ☐ 3. Severe
- ☐ 4. Very severe

G. Wind erosion hazard (4 points)

- ☐ 1. Low
- ☒ 2. Moderate
- ☐ 3. High
- ☐ 4. Very high

H. Water erosion hazard (4 points)

- ☐ 1. Low
- ☒ 2. Moderate
- ☐ 3. High
- ☐ 4. Very high

I. Saltiness (salinity) (4 points)

- ☒ 1. Not affected
- ☐ 2. Slight
- ☐ 3. Moderate
- ☐ 4. Severe

J. Surface runoff (5 points)

- ☐ 1. Very slow
- ☐ 2. Slow
- ☐ 3. Moderate
- ☒ 4. Rapid

K. Major factors that keep area out of Class I (10 points)

- ☒ 1. Climate
- ☒ 2. Surface texture
- ☐ 3. Depth of soil
- ☒ 4. Slope
- ☒ 5. Past erosion
- ☒ 6. Erosion hazard
- ☐ 7. Saltiness (salinity)
- ☒ 8. Surface runoff
- ☒ 9. Permeability
- ☐ 10. Wetness

L. Land Capability Class (10 points)

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

SCORE _____

North Dakota Land Judging Score Card

Part II – Recommended Land Treatments

Indicate your answer by placing an X in the proper space.

Vegetative Treatments – 10 points; 2 points deducted for each incorrect answer or omission

1. Use soil-conserving and/or soil-improving crops
 - () a. every 4th or 5th year
 - () b. every 3rd of 4th year
 - () c. every 2nd year
 - (X) d. every year
- (X) 2. Practice crop residue management
- (X) 3. Practice conservation tillage
- () 4. Establish recommended grass mixture
- () 5. Use proper pasture and range management
- () 6. Plant pattern-type tree windbreaks
- () 7. Use cover crop or annual buffer strips
- () 8. Use only for wildlife or recreation
- () 9. Use tame grass/crop rotation

Mechanical Treatments – 10 points; 2 points deducted for each incorrect answer or omission

- (X) 10. Use no summer fallow
- (X) 11. No fall tillage recommended
- () 12. Fill, shape and seed waterways
- () 13. Establish diversion terrace
- () 14. Practice wind-strip cropping
- () 15. Practice contour-strip cropping *undulating landscape*
- (X) 16. No-till production recommended

Fertility – 10 points; 2 points deducted for each incorrect answer or omission

- () 17. Apply lime *pH = 6.5*
- (X) 18. Apply nitrogen *Deficient. wheat intended*
- (X) 19. Apply phosphorus *10ppm*
- () 20. Apply potassium *200ppm*
- () 21. Fertilizer not needed

Present use: Canola
Intended use: wheat

SCORE _____

Site No. 2 Your name or number _____

Score Part I _____

Score Part II _____

Total score _____

prac +:cc

#3

North Dakota Land Judging Scorecard

Part I - Land Class Factors

Indicate your answer by placing an X in the proper space.

A. Surface Texture (6 points)

- ☐ 1. Coarse
- ☐ 2. Moderately coarse
- ☐ 3. Medium
- ☒ 4. Moderately fine
- ☐ 5. Fine

B. Permeability (internal drainage) (6 points)

- ☐ 1. Very Slow
 - ☐ 2. Slow
 - ☒ 3. Moderate
 - ☐ 4. Rapid
- Mod Coarse*

C. Depth of soil (6 points)

- ☒ 1. Deep
 - ☐ 2. Moderately deep
 - ☐ 3. Shallow
 - ☐ 4. Very shallow
- 36 inches - no restrictions*

D. Slope (6 points)

- ☐ 1. Nearly level 0%-3%
 - ☒ 2. Gently sloping 3.1%-6%
 - ☐ 3. Moderately sloping 6.1%-9%
 - ☐ 4. Strongly sloping 9.1%-12%
 - ☐ 5. Steep 12.1%-15%
 - ☐ 6. Very steep 15.1+%
- 4.4%*

E. Present topsoil soil thickness (5 points)

- ☒ 1. 0-6 inches
 - ☐ 2. 6.1-12 inches
 - ☐ 3. 12.1-18 inches
 - ☐ 4. 18.1+ inches
- 3.5 inches*

F. Past erosion (4 points)

- ☐ 1. None to slight
- ☒ 2. Moderate
- ☐ 3. Severe
- ☐ 4. Very severe

Original 10 inches

$$\frac{10 - 3.5}{10} \times 100 = 65\%$$

G. Wind erosion hazard (4 points)

- ☐ 1. Low
- ☒ 2. Moderate
- ☐ 3. High
- ☐ 4. Very high

H. Water erosion hazard (4 points)

- ☐ 1. Low
- ☒ 2. Moderate
- ☐ 3. High
- ☐ 4. Very high

I. Saltiness (salinity) (4 points)

- ☒ 1. Not affected
- ☐ 2. Slight
- ☐ 3. Moderate
- ☐ 4. Severe

J. Surface runoff (5 points)

- ☐ 1. Very slow
- ☐ 2. Slow
- ☒ 3. Moderate
- ☐ 4. Rapid

K. Major factors that keep area out of Class I (10 points)

- ☒ 1. Climate
- ☐ 2. Surface texture
- ☐ 3. Depth of soil
- ☒ 4. Slope
- ☒ 5. Past erosion
- ☒ 6. Erosion hazard
- ☐ 7. Saltiness (salinity)
- ☐ 8. Surface runoff
- ☐ 9. Permeability
- ☐ 10. Wetness

L. Land Capability Class (10 points)

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

SCORE _____

North Dakota Land Judging Scorecard

Part II - Recommended Land Treatments

Indicate your answer by placing an X in the proper space.

Vegetative Treatments – 10 points; 2 points deducted for each incorrect answer or omission

1. Use soil-conserving and/or soil-improving crops
 - () a. every fourth or fifth year
 - (X) b. every third or fourth year
 - () c. every second year
 - () d. every year
- (X) 2. Practice crop residue management
- (X) 3. Practice conservation tillage
- () 4. Establish recommended grass mixture
- () 5. Use proper pasture and range management
- () 6. Plant pattern-type tree windbreaks
- (X) 7. Use cover crop or annual buffer strips
- () 8. Use only for wildlife or recreation
- () 9. Use tame grass/crop rotation

Mechanical Treatments – 10 points; 2 points deducted for each incorrect answer or omission

- (X) 10. Use no summer fallow
- (X) 11. No fall tillage recommended
- () 12. Fill, shape and seed waterways
- () 13. Establish diversion terrace
- (X) 14. Practice wind-strip cropping
- () 15. Practice contour-strip cropping
- () 16. No-till production recommended

Fertility – 10 points; 2 points deducted for each incorrect answer or omission

- () 17. Apply lime *pH 7.3 carbonates present*
- () 18. Apply nitrogen *sufficient - soybean*
- () 19. Apply phosphorus *18 ppm*
- () 20. Apply potassium *210 ppm*
- (X) 21. Fertilizer not needed

SCORE _____

Site No. 3 Your name or number _____

Score Part I _____

Score Part II _____

Total score _____

Present Use: Camelina
Intended Use: Soybean

North Dakota Land Judging Scorecard

Part I - Land Class Factors

#4

Practical

Indicate your answer by placing an X in the proper space.

A. Surface Texture (6 points)

- ☐ 1. Coarse
- ☐ 2. Moderately coarse
- ☐ 3. Medium
- ☒ 4. Moderately fine *Mod. Fine*
- ☐ 5. Fine

B. Permeability (internal drainage) (6 points)

- ☒ 1. Very Slow *32 inches redox concentration displacing*
- ☐ 2. Slow
- ☐ 3. Moderate *Fine*
- ☐ 4. Rapid

C. Depth of soil (6 points)

- ☒ 1. Deep *41 inches roots*
- ☐ 2. Moderately deep
- ☐ 3. Shallow
- ☐ 4. Very shallow

D. Slope (6 points)

- ☒ 1. Nearly level 0%-3% *1.5% some level slope*
- ☐ 2. Gently sloping 3.1%-6%
- ☐ 3. Moderately sloping 6.1%-9%
- ☐ 4. Strongly sloping 9.1%-12%
- ☐ 5. Steep 12.1%-15%
- ☐ 6. Very steep 15.1%+

E. Present topsoil soil thickness (5 points)

- ☒ 1. 0-6 inches *1.5 inches*
- ☐ 2. 6.1-12 inches
- ☐ 3. 12.1-18 inches
- ☐ 4. 18.1+ inches

F. Past erosion (4 points) *1.5 inches original*

- ☒ 1. None to slight
- ☐ 2. Moderate *$\frac{1.5 - 1.5}{1.5} \times 100 = 0$*
- ☐ 3. Severe
- ☐ 4. Very severe

G. Wind erosion hazard (4 points)

- ☒ 1. Low
- ☐ 2. Moderate
- ☐ 3. High
- ☐ 4. Very high

H. Water erosion hazard (4 points)

- ☒ 1. Low
- ☐ 2. Moderate
- ☐ 3. High
- ☐ 4. Very high

I. Saltiness (salinity) (4 points)

- ☐ 1. Not affected
- ☒ 2. Slight *Kochia present*
- ☐ 3. Moderate
- ☐ 4. Severe

J. Surface runoff (5 points)

- ☒ 1. Very slow
- ☐ 2. Slow
- ☒ 3. Moderate
- ☐ 4. Rapid

K. Major factors that keep area out of Class I (10 points)

- ☒ 1. Climate
- ☒ 2. Surface texture
- ☐ 3. Depth of soil
- ☐ 4. Slope
- ☐ 5. Past erosion
- ☐ 6. Erosion hazard
- ☒ 7. Saltiness (salinity)
- ☒ 8. Surface runoff
- ☒ 9. Permeability
- ☐ 10. Wetness

L. Land Capability Class (10 points)

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

SCORE _____

North Dakota Land Judging Scorecard

Part II - Recommended Land Treatments

Indicate your answer by placing an X in the proper space.

Vegetative Treatments – 10 points; 2 points deducted for each incorrect answer or omission

1. Use soil-conserving and/or soil-improving crops
 - () a. every fourth or fifth year
 - (X) b. every third or fourth year
 - () c. every second year
 - () d. every year
- (X) 2. Practice crop residue management
- (X) 3. Practice conservation tillage
- () 4. Establish recommended grass mixture
- () 5. Use proper pasture and range management
- () 6. Plant pattern-type tree windbreaks
- () 7. Use cover crop or annual buffer strips
- () 8. Use only for wildlife or recreation
- () 9. Use tame grass/crop rotation

Mechanical Treatments – 10 points; 2 points deducted for each incorrect answer or omission

- (X) 10. Use no summer fallow
- (X) 11. No fall tillage recommended
- () 12. Fill, shape and seed waterways
- () 13. Establish diversion terrace
- () 14. Practice wind-strip cropping
- () 15. Practice contour-strip cropping
- () 16. No-till production recommended

Fertility – 10 points; 2 points deducted for each incorrect answer or omission

- (X) 17. Apply lime pH: 6
- (X) 18. Apply nitrogen Deficient - Sunflower need
- (X) 19. Apply phosphorus 12 ppm
- (X) 20. Apply potassium 75 ppm
- () 21. Fertilizer not needed

SCORE _____

Site No. 41 Your name or number _____

Score Part I _____

Score Part II _____

Total score _____

Present Use: Wheat
Intended Use: Sunflower