



## Land Judging CDE

### Purpose

The purpose of the Land Judging Career Development Event is to stimulate interest, encourage proficient development and excellence in land management as taught in agricultural education. Students evaluate soil characteristics including texture, slope and drainage and then classify the land in a capacity class.

Recommendations for land treatments are made with consideration given to farm, residential and urban uses.

### Sponsor

Duke Energy and the Soil Science Society of North Carolina currently sponsor this event.

### State Event Superintendent

The superintendent for this event is Dr. Jason Davis, State FFA Coordinator, NCSU, Campus Box 7654, Raleigh, NC 27695 Phone: 919.515.4206 Fax: 919.513.3201 Email: jason\_davis@ncsu.edu

### Eligibility and General Guidelines

This event is open to all FFA chapters and FFA members in good standing. FFA Members may not participate in a Career Development Event that leads to a state level event after July 1, following their high school/early college graduation. Members winning a previous state event in this area or that have participated in a previous national event in this area are ineligible.

Each chapter may send one team to compete at the state event. **Teams shall consist of three or four members. The top three scores will count towards the team total.** No alternates are allowed in state events. Any alternate found participating in a state event will result in team disqualification.

FFA members and advisors may not visit the site of a state career development event within seven days of the start of the event. Teams that violate this rule will be disqualified.

FFA members in good standing may also participate as individuals in this event. A chapter may have up to two members participate as individuals as long as the chapter does not have a team participating in the event. Their scores will only count toward individual recognition, and will not be tallied as a team score.

The use or possession of cellular phones, Personal Digital Assistants (PDAs) or any other mobile electronic communication device is prohibited during any state-level career development event. Any violation of this rule by any team member will result in total team disqualification.

Any member found cheating in any state-level career development event will result in total team disqualification for that event.

**The North Carolina FFA Association, in keeping with the FFA mission and purposes, does not permit the use of tobacco products at any FFA facility or at any FFA activity.**

### Dress Code

Participants are required to follow the North Carolina FFA Career Development Event Dress Code. A ten percent reduction in the total team score will be taken if a participant violates the dress code. Participants are allowed to wear long pants, an appropriate shirt with a collar or an appropriate high school or FFA t-shirt.

### Procedures for Administering the Event

The Handbook of Land Judging in North Carolina contains information and other materials related to the contest.

Procedures for setting up a contest are described in the Appendix of the handbook.

### Scoring and Related Items:

1. All "key score cards" will be completed by contest officials before the contest begins.
2. The official judge will check to ensure that all official answers conform to the information in the handbook.



3. Land treatments will be scored as follows: Full credit will be given when a correct treatment number appears in any block designated by event officials. There will be no credit, even if a correct treatment number is given, if it is outside the number of blocks designated by event officials. This scoring procedure is based on the fact that official judges designate the number of treatments to be selected from each field by participants.

### Procedure for Determining the State Event Winner When Scores are Tied

In the event a tie score exists, apply the following method:

1. Compare the alternate scores. The lowest team member score is the alternate score.
2. If this method fails to break the tie, co-winners will be declared. In the event of a tie that prevents the top five teams, eligible for national competition, to be determine the following procedure will be used to determine the fifth place team. Compare the total team score (including the alternate score) for the sections of the event that carries the highest point value: Soil Characteristics, Recommended land treatments, Urban Uses, Land Capability Class and Special Environmental Concerns. If a tie continues, the fifth place team will be determined by a coin toss between the team advisors.

### Procedure for Determining the State Event Winner When Scores are Tied for Individual Participants

Ties in scores between individuals will be broken by comparing the scores of the portion/section of the event that carries the highest point value: Soil Characteristics, Recommended Land Treatments, Urban Uses, Land Capability Class and Special Environmental Concerns.

### State Awards

The awards for the state event will be presented annually on site at the conclusion of the state event to include a team 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> place plaque and a travel monetary award.

### National Career Development Event Participation

The top five (5) teams in the state are eligible to participate in the in the National Land and Range Contest. It is the responsibility of the FFA Chapter Advisor to complete all necessary national certification forms and return them to the State FFA Coordinator by the assigned due date.

### Bibliography

The Handbook of Land Judging in North Carolina contains information and other materials related to the contest may be accessed at the [ncffa.org](http://ncffa.org/Web%20Files/Chapter%20Guide/Land_Jdg_Handbook.Sept.2009.pdf) website at [http://ncffa.org/Web%20Files/Chapter%20Guide/Land\\_Jdg\\_Handbook.Sept.2009.pdf](http://ncffa.org/Web%20Files/Chapter%20Guide/Land_Jdg_Handbook.Sept.2009.pdf)



**PART ONE - SOIL CHARACTERISTICS**

(Place an X in the proper square)

**The Surface Layer - (Top 6 inches)**

<p><b>TEXTURE</b></p> <input type="checkbox"/> Sandy <input type="checkbox"/> Loamy <input type="checkbox"/> Clayey	<p><b>STRUCTURE</b></p> <input type="checkbox"/> Single Grain <input type="checkbox"/> Granular <input type="checkbox"/> Blocky <input type="checkbox"/> Platy <input type="checkbox"/> Massive	<p><b>CONSISTENCE</b></p> <input type="checkbox"/> Loose <input type="checkbox"/> Friable <input type="checkbox"/> Firm	<p><b>EROSION</b></p> <input type="checkbox"/> None to slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input style="width: 40px; height: 20px;" type="text"/> <i>Subtotal</i>
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**The Subsurface Layer**

<p><b>TEXTURE</b></p> <input type="checkbox"/> Sandy <input type="checkbox"/> Loamy <input type="checkbox"/> Clayey	<p><b>STRUCTURE</b></p> <input type="checkbox"/> Single Grain <input type="checkbox"/> Granular <input type="checkbox"/> Blocky <input type="checkbox"/> Platy <input type="checkbox"/> Massive	<p><b>CONSISTENCE (MOIST)</b></p> <input type="checkbox"/> Loose <input type="checkbox"/> Friable <input type="checkbox"/> Firm <input type="checkbox"/> Very Firm	<p><b>CONSISTENCE (WET)</b></p> <input type="checkbox"/> Non-Sticky <input type="checkbox"/> Sticky <input type="checkbox"/> Very Sticky	<p><b>PERMEABILITY</b></p> <input type="checkbox"/> Rapid <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very Slow	<p><b>DEPTH TO LIMITING LAYER</b></p> <input type="checkbox"/> Very Shallow (<12") <input type="checkbox"/> Shallow (12-24") <input type="checkbox"/> Moderately Deep (24-36") <input type="checkbox"/> Deep (>36")	<input style="width: 40px; height: 20px;" type="text"/> <i>Subtotal</i>
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**Total Soil Characteristics**

<p><b>SLOPE</b></p> <input type="checkbox"/> 0-2% Nearly level <input type="checkbox"/> 2-6% Gently sloping <input type="checkbox"/> 6-10% Sloping <input type="checkbox"/> 10-15% Strongly sloping <input type="checkbox"/> 15-25% Steep <input type="checkbox"/> 25% + Very steep	<p><b>DRAINAGE</b></p> <input type="checkbox"/> Well <input type="checkbox"/> Moderately Well <input type="checkbox"/> Somewhat Poorly <input type="checkbox"/> Poorly <input type="checkbox"/> Very Poorly	<p><b>FLOODING</b></p> <input type="checkbox"/> No hazard <input type="checkbox"/> Potential hazard <input type="checkbox"/> In flood plain	<p><b>SURFACE WATER REMOVAL</b></p> <input type="checkbox"/> Rapid <input type="checkbox"/> Moderate <input type="checkbox"/> Slow <input type="checkbox"/> Very slow	<input style="width: 40px; height: 20px;" type="text"/> <i>Subtotal</i>  <input style="width: 100px; height: 20px;" type="text"/> <b>Score Part 1</b> Max Points = 43
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**PART TWO - LAND CAPABILITY CLASS**

(Place an X in the proper square)

<input type="checkbox"/> I <input type="checkbox"/> IIe <input type="checkbox"/> IIs <input type="checkbox"/> IIw <input type="checkbox"/> IIIe <input type="checkbox"/> IIIs <input type="checkbox"/> IIIw <input type="checkbox"/> IVe <input type="checkbox"/> IVs <input type="checkbox"/> IVw <input type="checkbox"/> VIe <input type="checkbox"/> VIIs <input type="checkbox"/> VIIe <input type="checkbox"/> VIIs <input type="checkbox"/> VIII	<input style="width: 100px; height: 20px;" type="text"/> <b>Score Part 2</b> Max Points = 10
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**PART THREE - RECOMMENDED LAND TREATMENTS**

(Select treatments and write the number of each treatment in the boxes below, beginning on the left side)

**Tillage Systems**

1. Conventional tillage, conserve crop residue
2. Conservation tillage, manage crop residue
3. Long-Term No Till

**Conservation Cropping Systems**

4. Row crop each year
5. Soil conserving crop 1 year in 4
6. Soil conserving crop 1 year in 3
7. Soil conserving crop 1 year in 2
8. Soil conserving crop 2 years in 3
9. Soil conserving crop 3 years in 4

**Supporting Practices**

10. Contour farming
11. Strip cropping
12. Terrace and maintain terraces
13. Construct diversion
14. Establish grassed waterway
15. Establish field border
16. Establish windbreak
17. Install water table control
18. Install surface water management
19. Stabilize sediment source areas
20. Establish recommended grass and/or legumes

21. Plant recommended trees

**Management Practices**

22. Remove obstructions
23. Control grazing
24. Proper pasture management
25. Improve tree stand
26. Woodland protection
27. Harvest trees using recommended method

<input style="width: 40px; height: 20px;" type="text"/> <input style="width: 40px; height: 20px;" type="text"/> <input style="width: 40px; height: 20px;" type="text"/> <input style="width: 40px; height: 20px;" type="text"/> <input style="width: 40px; height: 20px;" type="text"/> <input style="width: 40px; height: 20px;" type="text"/> <input style="width: 40px; height: 20px;" type="text"/> <input style="width: 40px; height: 20px;" type="text"/> <input style="width: 40px; height: 20px;" type="text"/> <input style="width: 40px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/> <b>Score Part 3</b> Max Points = 27
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**PART FOUR - URBAN USES**

The soil characteristics judged in PART ONE determine the limitations of a soil for urban uses. Rate each site as to the soil limitations of slight, moderate and severe for each urban use listed below. (CHECK APPROPRIATE COLUMN)

SOIL LIMITATIONS	URBAN USES				
	Septic Systems	Basements	Foundations	Sanitary Landfills	Landscaping
Slight					
Moderate					
Severe					

**Special Environmental Concerns**  
(from back) Max Points = 5

<p><b>TOTAL SCORE</b> Max Points = 100</p>	<input style="width: 100px; height: 20px;" type="text"/>
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### Special Environmental Concerns

*Check True or False for each of the following statements:*

- |         |         |  |
|---------|---------|--|
| T _____ | F _____ | 1. This appears to be a hydric soil. Check with authorities before draining and/or clearing site.  |
| T _____ | F _____ | 2. Risk of groundwater contamination when wet (from soluble nutrients and/or certain pesticides).  |
| T _____ | F _____ | 3. Deep leaching of soluble nutrients may restrict rates of animal or municipal waste application. |
| T _____ | F _____ | 4. Proximity to water body may restrict application of certain pesticides and waste materials.     |
| T _____ | F _____ | 5. High risk of off-site damage from eroding sediments if vegetative cover is destroyed or absent. |

**Special Environmental Concerns Score**

Max Points = 5

(Transfer this score to bottom front of scorecard)