LAND JUDGING AND HOMESITE EVALUATION IN FLORIDA

A workshop for coaches, volunteer leaders, agency officials, and contest hosts.

Sponsored by:
AFCD and Soil and Water Conservation Districts

Organizing Assistance: FFA and 4-H

What is it? Local and State contest about making wise landuse decisions Who is it? Middle and High School (both FFA and 4-H)

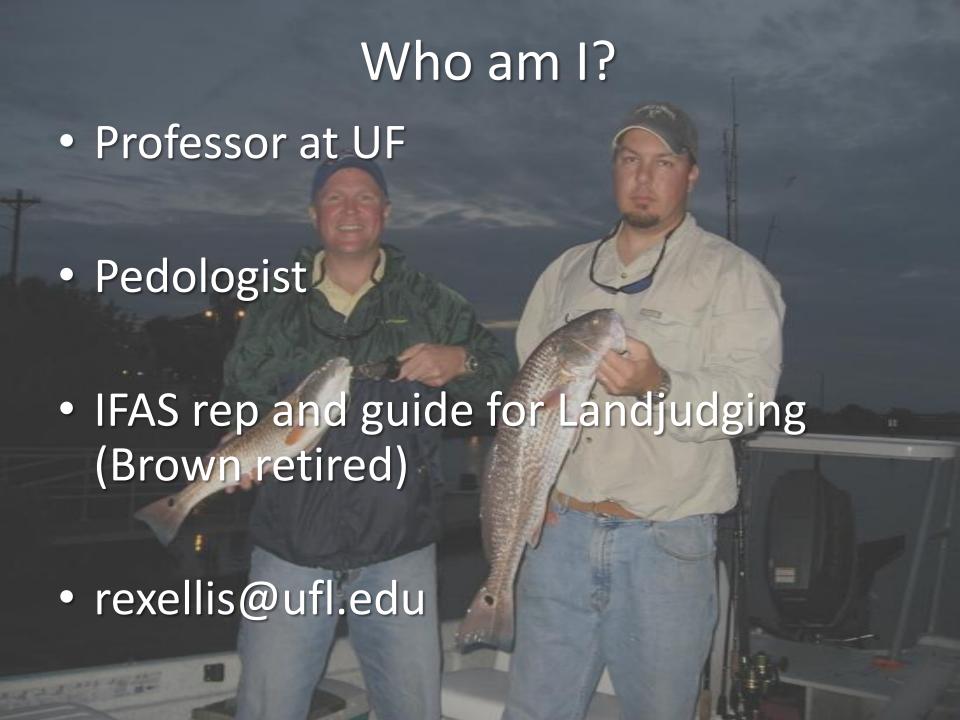
Who oversees it? State Land Judging Committee

Who guides it? UF IFAS (Herbert \rightarrow Brown \rightarrow Ellis)

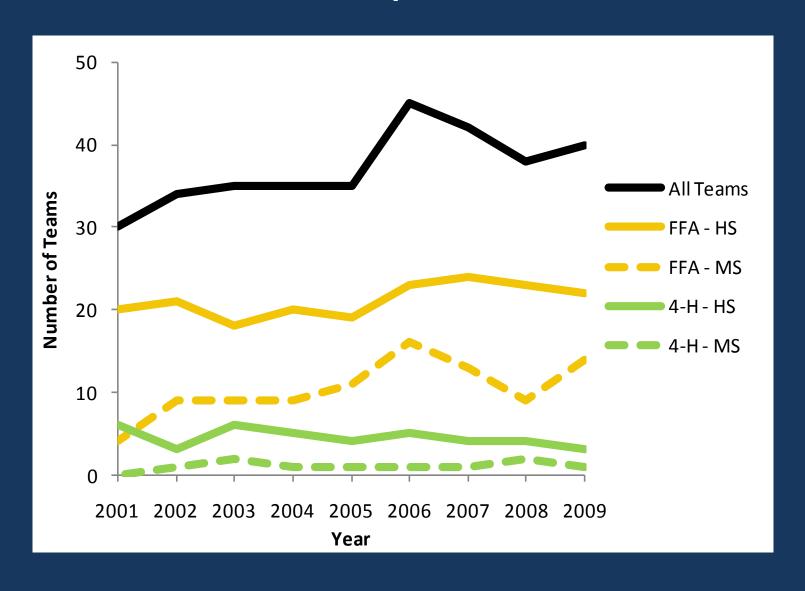
More info? http://landjudging.ifas.ufl.edu (Edit: website changed to

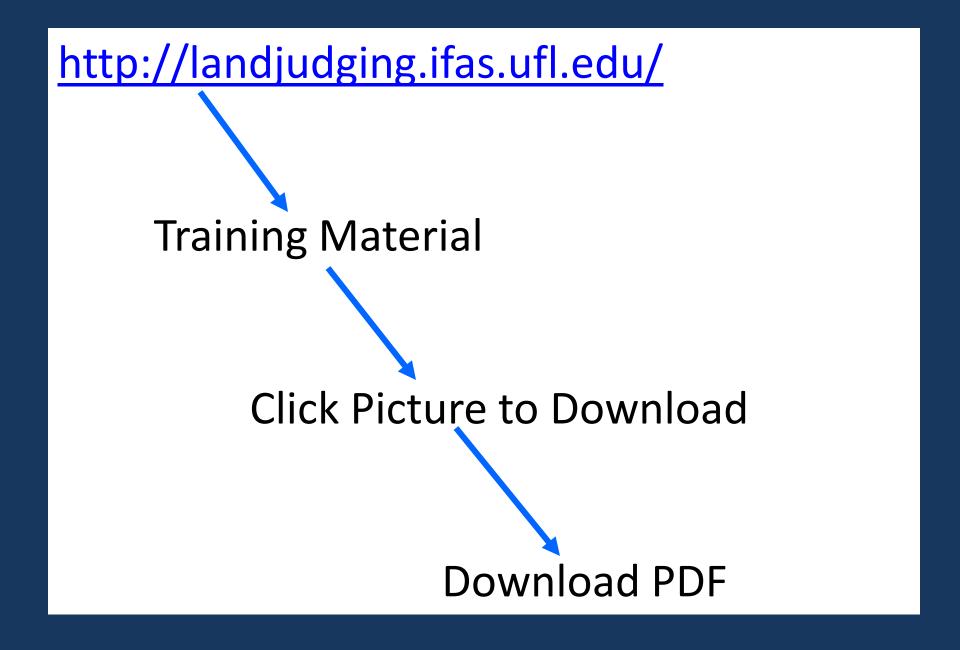
http://landjudging.org in February 2013)





Participation







Land Judging and Homesite Evaluation in Florida ¹

J.H. Herbert, Jr., R.B. Brown and E.A. Hanlon, Jr.²



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Key to Soil Orders in Florida 1

M.E. Collins²

This fact sheet is intended for anyone who has some understanding of Soil Taxonomy but who needs a simplified key to help distinguish one soil order from another. There are 12 soil orders: Andisols,

Gelosols, Entisols, Inceptisols, Alfi Spodosols, Histosols, Mollisols, Ar and Oxisols. Only seven of these s present in Florida. The soil orders Florida are the Aridisols, Vertisols Gelosols, and Oxisols. The distribu soil orders in Florida is shown in F Inceptisols, and Mollisols are not s Alfisols are widely interspersed thr and the aerial extent of Incentisols





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The Land Judging Score Card¹

IFAS EXTENSION

J. H. Herbert, Jr., R. B. Brown, and E. A. Hanlon, Jr.²

Full explanations of Land Characteristics and Conservation Practices can be found in Circular 242

Land Judging and Homesite (http://edis.ifas.ufl.edu/SS1

How to Use the Lan Ca



IFAS EXTENSION

this announcement before the contest begins so that everyone may write in the practice or practices.



The Homesite Evaluation Score Card¹

J. H. Herbert, Jr., R. B. Brown and E. A. Hanlon, Jr.²

Full explanations of the terms used in the Homesite Evaluation Score Card can be found in Circular 242 Land Judging and Homesite Evaluation in Florida (http://edis.ifas.ufl.edu/SS181).

How to Use the Homesite Evaluation Score Card

- 6. The contestants should be given 15 to 20 minutes to fill in the answers on their score cards on each site.
- 7. In order to insure that the contests are not lengthened too much by the addition of homesite evaluation, and that grading does not become too hundangama garranal alternativas ara naggible: for

LAND JUDGING SCORE CARD

Name	Field No		HOMESITE E	VALUATION SC	ORE CARD		
Indicate your answer by an X in the \square			Site No				
LAND CHARACTERISTICS - PART ONE CONSERVATION PRACTICES - PART TWO			Indicate your answer by an X in the □				
SURFACE TEXTURE	VEGETATIVE		PART TWO	PLANNED	USE AND INTERPR	RETATION	
Sandy	Use soil conserving and improving crops: 1. Every year between cash crops. 2. Every other year.		Degree of Limitation	Foundations	Lawns, Shrubs, Gardens	Septic Systems	
(Organic)	 3. Two years out of three. 4. Three years out of four. 5. Contour strip cropping. 6. Manage crop residue. 		Slight Moderate Severe V. Severe				
THICKNESS OF ROOTING ZONE Thin	7. Use sod-based rotation. 8. Wind strip cropping. 9. Use field windbreaks. 10. Control noxious plants. 11. Establish recommended grasses and/or		Slight Moderate Severe V. S e vere		_ _ _ _		
SOIL (PERMEABILITY) Rapid	☐ 12. Manage pasture or range properly. ☐ 13. Protect from wildfire. ☐ 14. Plant recommended trees.	000	Slight Moderate Severe V. Severe	_ _ _	_ _ _		
SLOPE A Nearly level	☐ 15. Harvest trees selectively. ☐ 16. Use for wildlife or recreational area. ☐ 17	00000	Slight Moderate Severe V. Severe				
EROSION - WIND AND WATER None to slight	 20. Maintain terraces. 21. Construct diversion terraces. 22. Develop waterways. 23. Install water control system. 24. Control gullies. 25. Subsoil. 		Slight Moderate Severe V. Severe		0 0		
Poor □ Somewhat poor □ Moderately well or well □ Excessive □	☐ 26 FERTILIZER & SOIL AMENDMENTS ☐ 27. Lime.		Slight Moderate Severe V. Severe				
FACTORS DETERMINING LAND CLASS Texture	 □ 28. Nitrogen. □ 29. Phosphorus. □ 30. Potassium. □ 31. One micronutrient. □ 32. Two or more micronutrients. □ 33		Slight Moderate Severe V. Severe		000		
Drainage	SCORE PART I		Slight Moderate Severe V. Severe				
SOIL ORDER Alfisol	SCORE PART II		Slight Moderate Severe V. Severe			- - -	
Inceptisol	and Agricultural Sciences/University of Florida. Gainesville	sion Se cultura resville	al Sciences		PART TWO		





SUB SOI

LAND JUDGING SCORE CARD Name Field No. Indicate your answer by an X in the LAND CHARACTERISTICS CONSERVATION PRACTICES - PART TWO SURFACE TEXTURE Use soil conserving and improving crops. 1. Every year between cash crops. 2. Every other year. 3. Two years out of three. ORGANIC MATTER (SURFACE SOIL) 4. Three years out of four. Medium..... 5. Contour strip cropping. 6. Manage crop residue. THICKNESS OF ROOTING ZONE 7. Use sod-based rotation. 8. Wind strip cropping. 9. Use field windbreaks. ☐ 10. Control noxious plants. MOVEMENT OF AIR AND WATER IN THE ☐ 11. Establish recommended grasses and/or SOIL (PERMEABILITY) leaumes. ☐ 12. Manage pasture or range properly. ☐ 13. Protect from wildfire. □ 14. Plant recommended trees. SLOPE ☐ 15. Harvest trees selectively. ☐ 16. Use for wildlife or recreational area. C Moderately sloping. MECHANICAL D Strongly sloping □ 18. Terrace. ☐ 19. Farm on the contour. **EROSION - WIND AND WATER** □ 20. Maintain terraces. □ 21. Construct diversion terraces. None to slight..... Moderate..... □ 22. Develop waterways. 23. Install water control system. ☐ 24. Control gullies. DRAINAGE □ 25. Subsoil. FERTILIZER & SOIL AMENDMENTS 27. Lime. FACTORS DETERMINING LAND CLASS □ 28. Nitrogen. 29. Phosphorus. 30. Potassium. Thickness of rooting zone 31. One micronutrient. Permeability...... ☐ 32. Two or more micronutrients. LAND CAPABILITY CLASS I II III IV V VI VII VIII Circle one of the above SOIL ORDER SCORE PART II...... Alfisol. Mollisol..... Aridisol Oxisol......

Soil Texture:

How do you determine texture? Feel the soil. Practice with known samples.

Slope:

How do you determine slope? Walk many slopes and calibrate yourself.

Water Table:

How do you determine depth to seasonal high water table? Redox concentrations in sand, redox depletions in loam/clay

Spodosol

Ultisol.......□

Vertisol

Entisol

Histosol.....□

Inceptisol.

TOTAL SCORE

LAND JUDGING SCORE CARD

Name Field No					
Indicate your answer by an X in the \square					
LAND CHARACTERISTICS - PART ONE SURFACE TEXTURE Sandy	CONSERVATION PRACTICES - PART TWO VEGETATIVE Use soil conserving and improving crops: 1. Every year between cash crops. 2. Every other year. 3. Two years out of three. 4. Three years out of four. 5. Contour strip cropping. 6. Manage crop residue. 7. Use sod-based rotation. 8. Wind strip cropping. 9. Use field windbreaks. 10. Control noxious plants. 11. Establish recommended grasses and/or legumes. 12. Manage pasture or range properly. 13. Protect from wildfire. 14. Plant recommended trees. 15. Harvest trees selectively. 16. Use for wildlife or recreational area. 17				
I II III IV V VI VII VIII Circle one of the above SOIL ORDER	SCORE PART I				
Alfisol	SCORE PART II				
Aridisol	TOTAL SCORE				
Inceptisol Vertisol					

Everything else is memorization and execution.

Florida Cooperative Extension Service/Institute of Food and Agricultural Sciences/University of Florida, Gainesville

Winning Teams...

In order of importance:

- 1. Know the book, front to back, in and out. They have it memorized ©
- 2. Walk LOTS of slopes. They can feel the slope just by walking it.
- Call water tables correctly.
- 4. Know their soil textures.

In the field today we will focus on #3. It is the single most poorly understood part of the contest.