



# ENVIRONMENTAL SCIENCE & NATURAL RESOURCES CDE

## PURPOSE

Environmental and natural resource education has a responsibility to ensure an educated public and provide students prepared to enter careers in the environmental and natural resource industry. The purpose of the environmental and natural resource career development event is to stimulate student interest and to promote environmental and natural resource instruction in the agricultural education curriculum and to provide recognition for those who have demonstrated skills and competencies as a result of environmental and natural resource instruction.

## ELIGIBILITY

The participant must be an active member of a chartered Florida FFA Chapter and enrolled in grades 9, 10, 11, and 12.

## EVENT PROCEDURES

The event will be a team event consisting of four students. Only the top three scores will be calculated for the team total. A team may compete with less than four members.

FFA members are to wear OUTDOOR FFA Official Dress, and will be scored accordingly.

Participants must come to the event prepared to work in adverse weather conditions. The event will be conducted regardless of the weather. Participants should have rain wear, warm clothes and appropriate footwear.

Under no circumstance will any participants be allowed to handle any of the items in the identification portion of the practicum's. Any infraction of this rule will be sufficient to eliminate a team from the event.

## TEAM ACTIVITY SCENARIO

A yearly topic will be announced no less than two weeks in advance. Students will be provided a scenario that deals with an environmental/ natural resource problem.

## EVENT MATERIALS

### MATERIALS PROVIDED:

- GPS
- Computer
- Projector

Participants must use the tools and equipment furnished at the event.

### MATERIALS STUDENTS MUST PROVIDE:

- Pencils
- Clipboard
- Electronic calculator (if needed) - standard four function, battery operated, non-programmable

## EVENT SCHEDULE

### PRELIMINARY

The preliminary event will consist of a 50 question written exam to be held on the Fall CDE Preliminary Testing Day. The exam will be based on the Delmar Cengage Environmental Science Fundamentals & Applications textbook. Questions can include multiple choice, matching and/or true and false. Unless otherwise noted, the written exam will be created using odd chapters on odd years and even chapters on even years, aligned with the state finals date - not the preliminary. The top ten teams will advance to the state finals.

### FINALS

The state finals will consist of the following:

- Written Exam
- Team Activity
- Individual Practicums

## TEAM PRACTICUMS

### PERFORMANCE PRACTICUM

#### TEAM ACTIVITY

Teams will be required to develop both an oral, as well as a written statement that addresses the questions in the annual scenario. Teams will be provided a scenario that relates with an environmental/natural resource problem from the following areas:

#### SOILS

- Physical properties
- Soil erosion
- Soil analysis
- Environmental impact of soil degradation

#### WATER

- Importance of water quality
- Factors that influence the quality of water
- Management practices used to ensure water quality

#### ECOSYSTEMS

- Basic ecological concepts
- Management of ecosystems

#### WASTE MANAGEMENT

- Preventing and reducing solid waste
- Disposing of waste
- Manure management
- Hazardous waste



## WRITTEN DOCUMENT GUIDELINES

Teams will submit a written summary of their findings at the time of check-in.

- Your written document should be concise, no more than three (3) single spaced, single sided pages. There is no minimum length.
- You should site any material and/or websites used to develop your written document.
- You will turn your document in at the start of the event.
- You should include your FFA chapter name and the names of the individual team members on the cover page.
- The style and format of the document is up to the team, as MLA or APA is not specified.
- The document should be printed on regular white paper and stapled in the top left corner.

## PRESENTATION GUIDELINES

Teams will be required to give an oral presentation justifying the decisions made by the team.

Presentations are to be prepared prior to the event, no preparation time will be given on the day of the event.

- Teams will be given 5-8 minutes to present.
- Visual aids are acceptable (excluding video). Examples of visual aids include PowerPoint, posters, photos, handouts, brochures, websites, etc. Those using PowerPoint should bring presentation loaded on portable drive.

Teams will be required to answer questions in regards to the decision reached by their team.

Question period will be 5 minutes in length.

## INDIVIDUAL PRACTICUMS

### KNOWLEDGE PRACTICUM

#### WRITTEN EXAM

The exam will be based on the Delmar Cengage Environmental Science Fundamentals & Applications textbook. Questions can include multiple choice, matching and/or true and false. Unless otherwise noted, the written exam will be created using odd chapters on odd years and even chapters on even years, aligned with the state finals date - not the preliminary.

### IDENTIFICATION PRACTICUM

#### IDENTIFICATION

Students will identify fifty (50) items from the following combined areas:

- Equipment
- Native species list
- Invasive/non-native species

### PROBLEM SOLVING PRACTICUMS

#### WATER ANALYSIS

Using measuring devices, each participant will measure a sample of water for quality analysis and contaminants.

- The following categories may be tested: dissolved oxygen, nitrates, nitrites, pH, temperature, phosphates, water hardness, chlorine and ammonia
- Analyze the results of measurements and determine if it is suitable for a specific use.
- Name possible causes of the particulate or other contaminant:
  - Are they natural
  - Are they pollutants (what level is acceptable)
- Describe the effects on the environment of the pollutants.



- List the sources of the pollutants.
- Discuss ways the water quality can be improved.

## WASTE MANAGEMENT

Participants will be presented with a scenario (agricultural producer, neighborhood, office building, manufacturing plant, etc.) that generates waste material creating environmental threats.

Participants will evaluate the nature of waste output to identify plausible options for reducing the rate of waste generation, recycling or providing potential alternative uses for the waste, treating the waste or disposing of the waste.

Participants should be able to identify at least one benefit and one deterrent for each possible option that is offered.

## SKILLS PRACTICUM

### GPS LOCATIONS

Students will be furnished with a Global Positioning System (GPS) unit and a map with points identified in longitude and latitude.

Using the GPS unit, the participant will be required to walk to and locate the points and will then record a predetermined identification mark located at each point.

Participants shall know how to read longitude and latitude numbers, how to use a GPS unit and understand differential corrections.

## SCORING

### PRELIMINARIES

Practicum	Activity	Individual	Team
Knowledge	Written Exam	50	150
Total		50	150

### FINALS

Practicum	Activity	Individual	Team
Knowledge	Written Exam	100	300
Performance	Team Activity		850
Identification		100	300
Problem Solving	Water Analysis	100	300
Problem Solving	Waste Management	100	300
Skills	GPS Locations	100	300
Official Dress		50	150
Total		550	2,500

## TIE BREAKERS

In the event of a tie in individualized scores, the following events will be used in order to determine award recipients:

### INDIVIDUAL

1. Written Exam



2. Identification Scores
3. Practicum Scores

## TEAM

In the event of a tie in team scores, the following events will be used in order to determine award recipients:

1. Drop Score
2. Team Activity
3. Total identification score

## AWARDS

Awards will be presented during a designated session at the annual State FFA Convention and Expo.

Awards will be presented to the top five teams as well as the overall high individual based upon their rankings. Awards are sponsored by a cooperating industry sponsor(s) as a special project and/or by the general fund of the Florida FFA Foundation.

## REFERENCES

This list of references is not intended to be inclusive. Other sources may be utilized and teachers are encouraged to make use of the very best instructional materials available. The following list contains references that may prove helpful during event preparation. Previous event materials may be available on the Florida FFA Website.

- For past materials and preparation documents log onto FFA.org
- Managing Our Natural Resources. Camp and Daughtery. Delmar Publishers, Inc. 2009. Albany NY.
- Environmental Science: Fundamentals and Applications. Cengage learning. 2007
- Applied Environmental Science: <https://www.FFA.org/thecouncil/resources>



**Environmental Science:  
Fundamentals and  
Applications, 1st Edition**  
DeVere Burton  
ISBN-13: 9781418053543  
448 Pages | © 2009 |  
Published

# IDENTIFICATION SPECIMEN LIST

## EQUIPMENT

### WATER QUALITY

1. refractometer
2. secchi disk
3. water meter for physical/chemical parameters (pH, conductivity and/ or DO)

### AQUATIC

4. bottom dredges
5. fish measuring board
6. plankton net
7. seines
8. sieves

### WILDLIFE

9. animal tags/bands
10. mammal traps
11. snake/reptile stick
12. radio telemetry unit

### WEATHER

13. wind speed meters
14. barometer

### SOILS

15. abny level
16. push probe
17. soil auger
18. soil color book

## NATIVE SPECIES

### WILDLIFE

19. armadillo
20. badger
21. beaver
22. bighorn sheep
23. bison
24. black bear
25. blacktail deer
26. bobcat
27. chipmunk
28. cottontail
29. coyote
30. elk
31. fox squirrel
32. gray squirrel
33. gray wolf
34. grizzly bear
35. jack rabbit

36. mole
37. moose
38. mountain goat
39. mountain lion
40. mule deer
41. muskrat
42. opossum
43. pocket gopher
44. porcupine
45. prairie dog
46. pronghorn
47. raccoon
48. red fox
49. skunk
50. weasel
51. whitetail deer
52. woodchuck

### BIRDS

53. bald eagle
54. blue jay
55. bluebird
56. brown thrasher
57. Canada goose
58. canvasback duck
59. cardinal
60. Cooper's hawk
61. Crissal thrasher
62. mourning dove
63. great blue heron
64. great horned owl
65. golden eagle
66. hummingbird
67. kestrel
68. least tern
69. mallard duck
70. osprey
71. pelican
72. purple martin
73. quail
74. red-tailed hawk
75. sand hill crane
76. blue-winged teal
77. turkey
78. whooping crane
79. wood duck

**REPTILES/AMPHIBIANS**

- 80. alligator
- 81. alligator snapping turtle
- 82. black rat snake
- 83. bullfrog
- 84. collared lizard
- 85. common snapping turtle
- 86. copperhead snake
- 87. coral snake
- 88. corn snake
- 89. cottonmouth
- 90. crocodile
- 91. fence lizard
- 92. garter snake
- 93. green anole lizard
- 94. gray tree frog
- 95. rattlesnake
- 96. red eared slider
- 97. ring neck snake
- 98. rubber boa snake
- 99. scarlet king snake
- 100. Woodhouse's toad

**FISH AND OTHER AQUATIC ANIMALS**

- 101. blue catfish
- 102. bream/bluegill
- 103. brown trout
- 104. carp
- 105. channel catfish
- 106. clam
- 107. crab
- 108. crappie
- 109. crayfish
- 110. flathead catfish
- 111. largemouth bass
- 112. lobster
- 113. salmon
- 114. shrimp
- 115. smallmouth bass
- 116. sturgeon
- 117. trout
- 118. walleye
- 119. yellow bullhead catfish

**INVASIVE/NON-NATIVE SPECIES****PLANTS**

- 120. broom snake weed
- 121. cheatgrass
- 122. Chinese tallow
- 123. cogongrass
- 124. English ivy
- 125. Himalaya blackberry
- 126. hydrilla
- 127. juniper
- 128. kudzu
- 129. leafy spurge
- 130. melaleuca
- 131. mimosa tree
- 132. purple loosestrife
- 133. Russian olive
- 134. saltcedar

**ANIMALS**

- 135. Asiatic clam
- 136. Asian long-horned beetle
- 137. Chinese mitten crab
- 138. chukkar
- 139. English sparrow
- 140. European starling
- 141. feral hog
- 142. feral horse
- 143. fire ant
- 144. gopher
- 145. Norway rat
- 146. nutria
- 147. ring neck pheasant
- 148. sea lamprey
- 149. tilapia
- 150. zebra mussel



NATIONAL FFA  
CAREER AND LEADERSHIP  
DEVELOPMENT EVENTS

## Team Activity – Team Presentation

900 points

CHAPTER		STATE		TEAM NUMBER	
INDICATOR	Very strong evidence of skill is present 5–4 points	Moderate evidence of skill is present 3–2 points	Strong evidence of skill is not present 1–0 points	Weight	Total Points
<b>Written statement</b>					
<b>Writing conventions</b>	Information is thoroughly and clearly reported. Ideas are clearly addressed and supported with details. There is a concise informative organization to the writing. Grammar and spelling are high quality. Less than two blatant errors.	Ideas are stated with some supporting details. There is some organization evident without clear construction. (Intro, body and conclusion). Grammar and spelling are adequate. There are less than five blatant errors.	The message is difficult to understand. The main idea of the presentation is not supported by details. Rambling message with obvious lack of organization. Lack of grammar and correct spelling throughout the writing. There are six or more blatant errors.	X 40	
<b>Analysis</b>	Addresses the problem at hand and conveys viable solutions. Subject knowledge excellent.	Addresses the problem at hand solutions may not be as clear or viable. Subject knowledge is average	No specific focus on the problem. Factual errors are evident.	X 40	
<b>Presentation</b>					
<b>Communication</b>	Speaks very articulately without hesitation. Confidence, poise and eye contact; excellent use of grammar. Oral communication enhances entire presentation. Never has the need for unnecessary pauses or hesitation when speaking.	Speaks articulately but sometimes hesitates. Some problems with eye contact and grammar is average. Occasionally has the need for a long pause or moderate hesitation when speaking.	Speaks articulately but frequently hesitates. Frequently hesitates or has long, awkward pauses while speaking. Reads from notes and rarely looks at the judges. Has problem with pronunciation and/or very low level use of grammar.	X 40	
<b>Participation</b>	All members participated equally.	The majority of the group took an active role.	All members did not participate equally, obvious weak individuals	X 20	
<b>Questions and Answers</b>	Knowledge is evident and provides a clear, concise well-thought out answer to the questions.	Provides answers that are somewhat unclear and at times does not answer the questions.	Seems caught off guard by questions and either does not answer the question or provides a rambling answer	X 20	
<b>TOTAL POINTS</b>					



## Team Activity – Team Presentation continued

INDICATOR	Very strong evidence of skill is present 5-4 points	Moderate evidence of skill is present 3-2 points	Strong evidence of skill is not present 1-0 points	Points Earned	Weight	Total Points
<b>Teamwork</b>						
<b>Managing team dynamics</b>	Completely committed to team dynamics, maturity and professionalism is always present.  In team conflicts, problem-solving and decision-making methods and skills are used to produce a positive compromise.	Somewhat committed to team dynamics, maturity and professionalism is seldom present.  In team conflicts, problem-solving and decision-making methods and skills are sometimes used to produce a compromise. Sometimes involvement in this process is limited.	Lacking team dynamics, maturity and professionalism.  When team conflict arises minimal or no attempt at a resolution is made by team members.		X 6	
<b>Awareness of personality styles of others</b>	Totally conscious and respectful of differing attitudes, personalities and behaviors.  Language is free of bias, and completely shows an understanding and respect for others' differences in learning and personality.	Is, for the most part, respectful of others' differences in personality and behavior.  For the most part, language conveys an understanding of others' differences in learning and personality.	Shows little tolerance for differing personalities and behaviors.  Language used may be expressed as not understanding others' differences in personality and learning styles.		X 2	
<b>Uses positive and mature language and mannerisms</b>	Always uses mature language and mannerisms.  Never uses immature verbal and/or nonverbal communication.  Always has positive communications.	Usually uses mature language and mannerisms.  Rarely uses immature verbal and/or nonverbal communication.  Usually has positive communications.	Seldom or never uses mature language and mannerisms.  Frequently uses immature verbal and/or nonverbal communication.  Seldom has positive communications.		X 4	
<b>Reacting to changes</b>	Has ability to react and transition effortlessly to change.  Shows excellent ability to adapt with unexpected change; thinks quickly; shows no sign of stress.	Typically reacts well to changes.  Seems able to adapt to unexpected change most of the time; occasionally stresses.	Has difficulty reacting well to changes.  Seems stressed by change.		X 2	
<b>Handling tasks</b>	Handles tasks with ease, including task assignment.  Efficient in planning, managing and completing all tasks in a timely and organized fashion.  All project parts are assigned equally.	Does a good job handling tasks with some ease, including task assignment.  Is thoughtful about the planning and sequencing of tasks, but occasional priority mistakes are made.  Some project parts are assigned equally.	Has difficulty handling tasks, including task assignment.  Seems to have trouble deciding the order to do several tasks and struggles with completion in a timely manner.  No project parts are assigned equally.		X 6	
<b>TOTAL POINTS</b>						



NATIONAL FFA  
CAREER AND LEADERSHIP  
DEVELOPMENT EVENTS

# GPS Location Scorecard

100 points

NAME \_\_\_\_\_ MEMBER NUMBER \_\_\_\_\_

CHAPTER \_\_\_\_\_ STATE \_\_\_\_\_ TEAM NUMBER \_\_\_\_\_

List your numbers for each location point following the latitude and longitude given.

*Note: Variance for differential corrections are noted on condition sheet.*

Location Point	Point Number	Possible Points	Points Earned
1		20	
2		20	
3		20	
4		20	
5		20	
<b>TOTAL POINTS</b>			

JUDGE'S NAME \_\_\_\_\_ JUDGE'S SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_



# ENVIRONMENTAL SCIENCE

## FFA JUDGING CARD

Form #013-2015



NAME _____	ID NUMBER _____
CHAPTER _____	GROUP NUMBER _____

### WRITTEN EXAM

- |                               |                               |                               |                               |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <b>1</b> (A) (B) (C) (D) (E)  | <b>12</b> (A) (B) (C) (D) (E) | <b>25</b> (A) (B) (C) (D) (E) | <b>38</b> (A) (B) (C) (D) (E) |
| <b>2</b> (A) (B) (C) (D) (E)  | <b>13</b> (A) (B) (C) (D) (E) | <b>26</b> (A) (B) (C) (D) (E) | <b>39</b> (A) (B) (C) (D) (E) |
| <b>3</b> (A) (B) (C) (D) (E)  | <b>14</b> (A) (B) (C) (D) (E) | <b>27</b> (A) (B) (C) (D) (E) | <b>40</b> (A) (B) (C) (D) (E) |
| <b>4</b> (A) (B) (C) (D) (E)  | <b>15</b> (A) (B) (C) (D) (E) | <b>28</b> (A) (B) (C) (D) (E) | <b>41</b> (A) (B) (C) (D) (E) |
| <b>5</b> (A) (B) (C) (D) (E)  | <b>16</b> (A) (B) (C) (D) (E) | <b>29</b> (A) (B) (C) (D) (E) | <b>42</b> (A) (B) (C) (D) (E) |
| <b>6</b> (A) (B) (C) (D) (E)  | <b>17</b> (A) (B) (C) (D) (E) | <b>30</b> (A) (B) (C) (D) (E) | <b>43</b> (A) (B) (C) (D) (E) |
| <b>7</b> (A) (B) (C) (D) (E)  | <b>18</b> (A) (B) (C) (D) (E) | <b>31</b> (A) (B) (C) (D) (E) | <b>44</b> (A) (B) (C) (D) (E) |
| <b>8</b> (A) (B) (C) (D) (E)  | <b>19</b> (A) (B) (C) (D) (E) | <b>32</b> (A) (B) (C) (D) (E) | <b>45</b> (A) (B) (C) (D) (E) |
| <b>9</b> (A) (B) (C) (D) (E)  | <b>20</b> (A) (B) (C) (D) (E) | <b>33</b> (A) (B) (C) (D) (E) | <b>46</b> (A) (B) (C) (D) (E) |
| <b>10</b> (A) (B) (C) (D) (E) | <b>21</b> (A) (B) (C) (D) (E) | <b>34</b> (A) (B) (C) (D) (E) | <b>47</b> (A) (B) (C) (D) (E) |
| <b>11</b> (A) (B) (C) (D) (E) | <b>22</b> (A) (B) (C) (D) (E) | <b>35</b> (A) (B) (C) (D) (E) | <b>48</b> (A) (B) (C) (D) (E) |
|                               | <b>23</b> (A) (B) (C) (D) (E) | <b>36</b> (A) (B) (C) (D) (E) | <b>49</b> (A) (B) (C) (D) (E) |
|                               | <b>24</b> (A) (B) (C) (D) (E) | <b>37</b> (A) (B) (C) (D) (E) | <b>50</b> (A) (B) (C) (D) (E) |

The use of electronic devices is prohibited during the event. Only approved calculators may be used as permitted.



No talking is allowed during the event. Please notify your group leader with any concerns.



Use a pencil to completely fill in circles. Be sure to erase completely to change your answer.



# IDENTIFICATION

1 (A) (B) (C) (D) (E)

2 (A) (B) (C) (D) (E)

3 (A) (B) (C) (D) (E)

4 (A) (B) (C) (D) (E)

5 (A) (B) (C) (D) (E)

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8 (A) (B) (C) (D) (E)

9 (A) (B) (C) (D) (E)

10 (A) (B) (C) (D) (E)

11 (A) (B) (C) (D) (E)

12 (A) (B) (C) (D) (E)

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23 (A) (B) (C) (D) (E)

24 (A) (B) (C) (D) (E)

25 (A) (B) (C) (D) (E)

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29 (A) (B) (C) (D) (E)

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33 (A) (B) (C) (D) (E)

34 (A) (B) (C) (D) (E)

35 (A) (B) (C) (D) (E)

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37 (A) (B) (C) (D) (E)

38 (A) (B) (C) (D) (E)

39 (A) (B) (C) (D) (E)

40 (A) (B) (C) (D) (E)

41 (A) (B) (C) (D) (E)

42 (A) (B) (C) (D) (E)

43 (A) (B) (C) (D) (E)

44 (A) (B) (C) (D) (E)

45 (A) (B) (C) (D) (E)

46 (A) (B) (C) (D) (E)

47 (A) (B) (C) (D) (E)

48 (A) (B) (C) (D) (E)

49 (A) (B) (C) (D) (E)

50 (A) (B) (C) (D) (E)

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Use a pencil to completely fill in circles. Be sure to erase completely to change your answer.



**WATER QUALITY**

- A refractometer
- B secchi disk
- C thermometer
- D water meter for physical/chemical parameters (pH, conductivity and/or DO)

**AQUATIC**

- E bottom dredges
- A fish measuring board
- B plankton net
- C seines
- D sieves

**WILDLIFE**

- E animal tags/bands
- A mammal traps
- B snake/reptile stick
- C radio telemetry unit

**WEATHER**

- D wind speed meters
- E barometer

**SOILS**

- A abny level
- B push probe
- C soil auger
- D soil color block

**NATIVE WILDLIFE**

- E armadillo
- A badger
- B beaver
- C bighorn sheep
- D bison
- E black bear
- A blacktail deer
- B bobcat
- C chipmunk
- D cottontail
- E coyote
- A elk
- B fox squirrel
- C gray squirrel
- D gray wolf
- E grizzly bear
- A jack rabbit
- B mole
- C moose
- D mountain goat
- E mountain lion
- A mule deer
- B muskrat
- C opossum
- D pocket gopher

E porcupine

- A prairie dog
- B pronghorn
- C raccoon
- D red fox
- E skunk
- A weasel
- B whitetail deer
- C woodchuck

**NATIVE BIRDS**

- D bald eagle
- E blue jay
- A blue bird
- B brown thrasher
- C Canada goose
- D canvasback duck
- E cardinal
- A Cooper's hawk
- B Crissal's thrasher
- C mourning dove
- D great horned owl
- E great blue heron
- A golden eagle
- B hummingbird
- C kestrel
- D least tern
- E mallard duck
- A mountain bluebird
- B osprey
- C pelican
- D purple martin
- E quail
- A red-tailed hawk
- B sand hill crane
- C turkey
- D whooping crane
- E wood duck

**NATIVE REPTILES/ AMPHIBIANS**

- A alligator
- B alligator snapping turtle
- C black rat snake
- D bullfrog
- E collared lizard
- A common snapping turtle
- B copperhead snake
- C coral snake
- D corn snake
- E cottonmouth
- A crocodile
- B fence lizard
- C garter snake
- D green anole lizard

E gray tree frog

- A rattlesnake
- B red eared slider
- C ring neck snake
- D rubber boa snake
- E scarlet king snake
- A Woodhouse's toad

**FISH/AQUATIC ANIMALS**

- B blue catfish
- C bream/bluegill
- D brown trout
- E carp
- A channel catfish
- B clam
- C crab
- D crappie
- E crayfish
- A flathead catfish
- B largemouth bass
- C lobster
- D salmon
- A shrimp
- B smallmouth bass
- C sturgeon
- D trout
- E walleye
- A yellow bullhead catfish

**INVASIVE/NON-NATIVE PLANTS**

- B broom snake
- C cheatgrass
- D Chinese tallow
- E cogongrass
- A English ivy
- B Himalaya blackberry
- C hydrilla
- D juniper
- E kudzu
- A leafy spurge
- B melaleuca
- C mimosa tree
- D purple loosestrife
- E Russian olive
- A saltcedar

**INVASIVE/NON-NATIVE ANIMALS**

- B Asiatic clam
- C Asian long-horned beetle
- D Chinese mitten crab
- E chukkar
- A English sparrow
- B European starling

C feral hog

- D feral house
- E fire ant
- A gopher
- B Norway rat
- C nutria
- D ring neck pheasant
- E sea lamprey
- C talipia
- D zebra mussel

The use of electronic devices is prohibited during the event. Only approved calculators may be used as permitted.

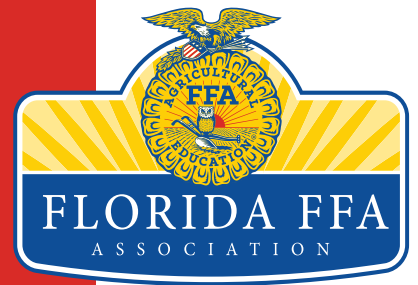


No talking is allowed during the event. Please notify your group leader with any concerns.



Use a pencil to completely fill in circles. Be sure to erase completely to change your answer.





# COMPETITIVE EVENT POLICIES & PROCEDURES

## PHILOSOPHY

The National FFA Organization and Florida FFA Association are dedicated to organizing experiences that will meet the future needs of students while accomplishing the current purposes of agricultural education.

The primary goal of career and leadership development events is to develop individual college and career readiness skills through personal growth and premier leadership.

Individuals will be challenged to develop critical thinking skills, effective decision making skills, foster teamwork and promote communication while recognizing the value of ethical competition and individual achievement.

The activities in each event:

- Include problem solving, critical thinking and teamwork skills, where appropriate.
- Encourage appreciation for diversity by reducing barriers to participation among members.
- Develop general leadership and recognize individual and team achievement.
- Promote concentrated focus on future needs of members and society.

Career and Leadership Development Events should reflect instruction that currently takes place in the entire agricultural education program, including classroom instruction, laboratory instruction, instruction in leadership and supervised agricultural experience. Events are intended to be an outgrowth of instruction. Also, it is appropriate for the national organization and the state association to develop events and awards that stimulate instruction in emerging areas that reflect both current and future community, national and global workforce needs. Those events should be developed with significant input from FFA members, teachers, partners, respective industry sponsors and others involved in agricultural education. The National FFA Organization and Florida FFA Association continues to encourage accessibility and provide opportunities for achievement and recognition for students with diverse backgrounds.

Events that include team activities should be based on cooperation and teamwork while recognizing the value of competition and individual achievement. Where appropriate, team activities will be included that require two or more members from one chapter working cooperatively.

## POLICIES & PROCEDURES

*Violations of any of the following rules may be grounds for the event superintendent to disqualify the participants.*

Florida FFA staff and event superintendents will use the published policies and procedures to organize and implement the Florida FFA Career and Leadership Development Events. Event activities may not be conducted due to lack of necessary materials, expertise or extreme impact to event budgets. Teams will receive the current event format prior to the event.

## ELIGIBILITY OF PARTICIPANTS

Each participant must be a current dues paying member in good standing with the local chapter, state FFA association, and National FFA Organization for the school year during which the event is held (or the previous year).

The participant must be enrolled in Agriculture, Food and Natural Resources Education, and maintain a Supervised Agricultural Experience (SAE) program.

**Note:** Certain exceptions may apply as follows. If a student is unable to enroll in an agriculture course due to extenuating circumstance, such as program closure or scheduling problems, that student may maintain active membership status for up to one membership year by paying local, chapter and state dues and by maintaining a Supervised Agricultural Experience (SAE) program and active involvement with the local FFA chapter. This period of FFA membership will be terminated at the end of that membership year if the student does not re-enroll in a systematic program of agricultural instruction.

If a student moves to a different chapter once he/she has qualified as a chapter representative in a CDE/LDE that student may be allowed to compete in the state event with the school he/she qualified with during the qualifying year. **Note:** this only applies to LDEs held at State FFA Convention.

A member who is a former state winner, either individual or team, in a particular FFA CDE/LDE is not eligible to compete in that CDE/LDE area again, with the exception of teams/individuals who win on the middle school level and then compete in the same CDE/LDE on the high school level.

The student must not have previously participated in a National Career or Leadership Development Event of the same kind.

Florida FFA will only permit students in grades 9-12 to represent Florida at national Career/Leadership Development Events, with the exception of the Creed LDE and Conduct of Chapter Meetings LDE. Creed and Conduct of Chapter Meetings will be open for students in grades 7-9

In the event that one, two, or three members of a four member team are ineligible to compete in national competition, the advisor must substitute eligible members from the chapter to compete nationally. Members serving as substitutes will be ineligible for future competition in that contest or award program area.

Few exceptions will be made in the scheduling of events for teams participating in two events, which are held simultaneously. Prior notice must be given to the Florida FFA Association office for such consideration.

## REGISTRATION

Pre-registration is required for all events at the sub-district, district and state level, unless

otherwise announced by the Florida FFA Association. Chapters should register at [www.flaffa.org](http://www.flaffa.org). Registration will open approximately four (4) weeks prior to the event and will close approximately two (2) weeks prior to the event, as published on the official Florida FFA calendar.

Following the close of registration, a list of registered teams will be distributed electronically. If a chapter's name does not appear on the list as a result of registration error, notification must be made to the Florida FFA Office within twenty-four (24) hours or by the published deadline.

Chapters not properly registered will not be eligible for competition.

## DISQUALIFICATION

A member or team may be disqualified from an event if:

- There is any communication, verbal or non-verbal, between participants during the event. The only exception to this would be communications between team members during the team activity portion of a given event.
- Any assistance is given to a team member from any source other than the event officials or assistants.
- Event superintendents stop any participants for manners they deem to be hazardous to themselves or others. Such action shall deem the individuals disqualified for that section of the event.
- Participants start the event and do not complete the event without notifying event officials at the time of departure. This can affect the overall team rank and position. In some events this will also disqualify the entire team.
- Participants utilize personal electronic communication devices, other than those approved by the event officials, during the entire course of the event. Participants who access personal electronic communication devices without prior approval of the event officials will be disqualified.
- Participant, team, advisor or coach gains access to real materials that will be utilized by the event committee during competition. Any team, participant, advisor or coach reported and provento do so will be disqualified from the event.
- It is prohibited for an advisor or anyone else to register their members under another member or chapter name. If this rule is violated, the chapter(s) involved will be disqualified from the event.

## GENERAL GUIDELINES

1. Advisors should properly instruct students how to participate in a CDE/LDE prior to arrival at the event (including judging card completion, contest expectations, etc.).
2. Contestants must provide their own pens, pencils, erasers, clip boards and other necessary items necessary for competition.
3. Late arrivals may be ineligible for competition. Decisions regarding participation will be made at the discretion of the CDE/LDE superintendent.
4. FFA members should be in official dress, appropriate to the event, and will be scored accordingly. (See Official Dress Scoring for details.)
5. All participants will be assigned to a group number and are to stay with their assigned group at all times or until told otherwise by the event superintendent or group leader.
6. All participants will be given an identification number by which they will be designated for the event. It is imperative that participants make sure that the identification they were assigned matches the identification number on their materials.
7. FFA members are strongly encouraged to eat a healthy meal prior to start of the event in addition to staying properly hydrated for the duration of the event.
8. FFA members and advisors should act in a manner that will reflect favorably on the FFA chapter and the school.
9. Advisors will be expected to assist in event facilitation (i.e. act as group leaders, room



- monitors, proctors, etc.) as requested by the CDE/LDE superintendent.
10. If membership is questioned in any competitive event or award programs held above the chapter level, the advisor must then show evidence that state and national dues were paid by the member prior to the student having participated in that event or award program.
  11. Upon notification from the state office indicating the chapter's ineligibility, (i.e. the initial membership roster, dues and Quality Chapter Planning Guide have not reached the state office) all members in that chapter are ineligible for competition above the chapter level until the roster, dues and Quality Chapter Planning Guide are received in the state office.
  12. Judging cards that are incorrectly completed (i.e. contestant number not shaded in, stray marks, etc.) will not be scored.
  13. In the case that a team who has qualified at a qualifying event, not held at the State FFA Convention, notifies the State FFA Office, in writing, two (2) weeks prior to the Finals event that they are unable to compete, the State Association has the authority to allow the next qualifying team to participate.
  14. In the case that a team/individual who has qualified at a qualifying event, held at the State FFA Convention, notifies the State FFA Office, in writing, thirty days prior to the start of convention that they are unable to compete, the State Association has the authority to allow the second place team/individual from that district or the next qualifying team/individual to participate.
  15. Materials that have been used by chapters and coaches as resources for training purposes should not be presented in the same visual manner in the official CDE/LDE.

## TABULATION OF RESULTS

1. At the conclusion of each event all completed cards will be delivered to the event coordinator for tabulation.
2. Event results will be posted the first business day following the event on the Florida FFA Association website at [www.flaffa.org](http://www.flaffa.org).
3. Team scores and team names will be posted rank order as well as the names of the winning team members and high individual. Individual team results will also be provided at this time.
4. State CDE/LDE results are considered unofficial for (2) business days following publishing. It is the responsibility of the FFA Advisor to request and review individual team results. Any appeal must be made to the FFA Executive Secretary in writing for necessary adjustments to be made. At the close of business on the second business day following publishing, results will be official.
5. Sub-District and District CDE/LDE results for individual and team events are to be considered final as announced onsite at each event location.
6. Completed cards and testing materials of individual and team participants will not be returned for local, district or state competition.
7. For events with subjective scoring, participants shall be ranked in numerical order on the basis of the final score to be determined by each judge without consultation. The judges' ranking of each participant shall then be added, and the winner will be that whose total of rankings is the lowest. Other placings shall be determined in the same manner. (low point method of selection)

## OFFICIAL JUDGES

Official judges for each event will be selected by the CDE/LDE Superintendent or his or her representative. Careful consideration should be given to select qualified and competent judges.

Guidelines for Official Judges include:

- Official judges should make their placing in the same manner as is required of contestants with respect to handling specimens or animals.
- Official judges will give their completed official placings and scores to the event coordinator.
- Placings by the official judges must be kept confidential until the event is completed and

public announcements are made.

- Judges of Leadership Development Events are encouraged to use official comment cards provided to offer feedback to individual contestants.
- Current FFA Advisors are not permitted to serve as judges with the exception of the state Parliamentary Procedure LDE and/or other events which require certain expertise and as deemed appropriate by the event superintendent and Florida FFA Association.
- Judges decisions are considered final.

## ADVISOR ATTENDANCE

As a matter of policy set by the Board of Directors of the Florida FFA Association, it is required that an advisor or other school district approved representative accompany all students to, from and while attending any Florida FFA event or activity. In the event that the advisor is unable to attend, a school district representative must be appointed by the school principal or superintendent and permission must be provided in writing to the Florida FFA Association. In the event that this policy is not followed, the student(s) will not be permitted to attend the event.

## RULES & REVISIONS

As a matter of policy set by the FFA Board of Directors, authority is given to State FFA Staff to make technical revisions to Career and Leadership Development Event rules as necessary.

In addition, Board Policy directs CDE/LDE superintendents to follow CDE /LDE rules as closely as possible while also allowing the CDE/LDE superintendent the flexibility to make adjustments as necessary based on availability of resources.

## ACCESSIBILITY FOR ALL STUDENTS

All special needs requests and appropriate documentation must be submitted at the time of registration.

## HONESTY AND INTEGRITY

Florida FFA expects students to be honest in all of their work, including work outside of the classroom related to Career Development Events (CDE) and Supervised Agricultural Experience (SAE) programs. By participating in a competitive event, FFA members, advisors and proctors agree to adhere to high standards of academic honesty and integrity and understand that failure to comply with this pledge may result in disciplinary action, up to and including event disqualification, loss of Quality FFA Chapter Status and termination of active FFA membership.

As an integral component of school-based agricultural education, FFA is obligated to report cases of student, teacher, chaperone or proctor dishonesty to the school district.

All FFA members and advisors have an ethical obligation to adhere to the Honor Code and are required to abide by the following Academic Honesty Policies:

I. By registering for or participating in any FFA event, FFA chapter representatives, including students and adults, agree to adhere to the following academic honesty code. FFA chapter representatives that do not agree to this policy should not register or participate. I understand that FFA expects its students and teachers to be honest in all of their work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action, up to and including event disqualification, loss of Quality FFA Chapter Status and termination of active FFA membership.

II. The conduct set forth hereinafter constitutes a violation of the Academic Honesty Policies. Those adjudged to have committed such conduct shall be subject to discipline. Violations of the Honor

Code and Policies include but are not limited to the following:

### CHEATING

The improper taking or tendering of any information or material which shall be used to determine academic or competitive credit. Examples include but are not limited to the following:

- Copying from another student's test or materials.
- Allowing another student to copy from a test or materials.
- Using unauthorized materials during a test, such as the textbook, notebook, formula lists or notes, including those stored in a calculator or other electronic device.
- Collaborating during an event or activity with any other person by giving or receiving information without authority.
- Having another individual write or plan a paper, including those bought from research paper services.

### PLAGIARISM

The attempt to represent the work of another, as it may relate to written or oral works, computer-based work, mode of creative expression, as the product of one's own thought, whether the other's work is published or unpublished, or simply the work of a fellow student or teacher.

When a student submits oral or written work that includes the words, ideas, or data of others, the source of that information must be acknowledged through complete, accurate, and specific references, and, if verbatim statements are included, through use of quotation marks as well. By placing one's name on work submitted for credit, the student certifies the originality of all work not otherwise identified by appropriate acknowledgements. A student will avoid being charged with plagiarism if there is an acknowledgement of indebtedness. It is the FFA advisor's responsibility to monitor and have an accurate understanding of the source of the students work.

Examples include:

- Quoting another person's actual words.
- Using another person's idea, opinion, or theory, even if it is completely paraphrased in one's own words.
- Drawing upon facts, statistics, or other illustrative materials — unless the information is common knowledge.
- Failing to accurately document information or wording obtained on the internet.
- Submitting anyone else's work as one's own work.
- Violating federal copyright laws, including unauthorized duplication and/or distribution of copyrighted material.
- Offering, giving, receiving or soliciting of any materials, items or services of value to gain competitive advantages for yourself or another.

### BRIBERY

The offering, giving, receiving, or soliciting of any materials, items or services of value to gain academic advantage for yourself or another.

### MISREPRESENTATION

Any act or omission with intent to deceive an event official for competitive advantage.

Misrepresentation includes lying to an event official or misstating the facts to increase your competitive standing.

### CONSPIRACY

The planning or acting with one or more persons to commit any form of academic dishonesty to gain competitive advantage for yourself or another.

### FABRICATION

The use of invented or fabricated information, or the falsification of research or other findings with

the intent to deceive for competitive advantage.

Examples include:

- Citing information not taken from the source indicated.
- Listing sources in a Works Cited or reference not used in the academic exercise.
- Inventing data or source information for research or other academic exercise.
- Submitting any academic exercise as one's own prepared totally or in part by another, including on-line sources.
- Taking a test for someone else or permitting someone else to take a test for you.

### COLLUSION

The act of working with another person on an competitive undertaking for which a student is individually responsible. Unless working together on an individual practicum has been prior approved, it is not allowed. On team practicums, students must stay within the guidelines set by the event coordinator. If the event coordinator provides additional guidelines, they must be followed. Failure to do so also constitutes a violation of these Policies and Rule.

### COMPETITIVE MISCONDUCT

The intentional violation of integrity by tampering with scores or taking part in obtaining or distributing any part of a test or practicum.

Examples include:

- Stealing, buying, downloading, or otherwise obtaining all or part of a test and/or test answers without authorization.
- Asking or bribing any other person to obtain a test or any information about a test.
- Changing, altering, or being an accessory to changing and/or altering of an exam response or a grade recorded.
- Continuing to work on an examination or practicum after the specified time has elapsed.

### IMPROPER COMPUTER/CALCULATOR USE

Examples of improper computer and/or calculator use include but are not limited to:

- Unauthorized access, modification, use, creation or destruction of calculator-stored or computer-stored data and programs.
- Sharing a calculator or computer while leaving answers on display or in memory.
- Submitting a duplicate printout with only the student's or chapter's name changed. This applies to all FFA events, awards and activities.

### IMPROPER ONLINE TESTING USE INCLUDE:

- Having or providing unauthorized outside help when completing online assessments.
- Obtaining access to confidential test materials or questions before online assessments.
- Agriculture Teachers being in the room during online testing and/or certification.
- Proctors must not administer tests to their family members.
- Taking a test for someone else or permitting someone else to take a test for you.

NOTE: A third-party designated proctor must administer all FFA related exams and certifications. Third-party proctor must have received notification of and agree to these policies and may be required to submit documentation certifying the integrity of the online exam process. A third-party proctor cannot be the agriculture teacher(s). Examples of acceptable third-party proctors include: school administrators, computer lab coordinators, media specialists, guidance counselors, testing coordinators, teachers not affiliated with the agriculture program, other non-instructional school or school district officials.

### DISRUPTIVE BEHAVIOR

Each chapter representative's behavior during an FFA event or activity is expected to contribute

to a positive learning/teaching/competitive environment, respecting the rights of others and their opportunity to learn or participate. No chapter representative has the right to interfere with this process, including the posting of inappropriate materials on social media sites.

FFA event officials have the authority to ask a disruptive chapter representative to leave the event or activity and will report the incident as appropriate.

### ELECTRONIC DEVICES

The use of cell phones or other electronic devices are not allowed during any FFA competitive event or activity, unless prior approval is given from the event coordinator.

## OFFICIAL DRESS, NUMBER OF PARTICIPANTS AND NUMBER OF SCORES FOR TEAM TOTAL

Competitive Event	Indoor/ Outdoor	Max Participants	Scores Counted	Calculator	Preliminary	Coordinator
<b>CAREER DEVELOPMENT EVENTS</b>						
Agricultural Communications (HS)	IN	4	3	No	Yes	Dr. Ricky Telg
Agricultural Education (HS)	IN	1	N/A	No	Yes	Dr. Grady Roberts
Agricultural Sales (HS)	IN	4	3	No	No	Dr. Al Wysocki
Agricultural Technology and Mechanical Systems (HS)	^	4	3	Yes	Yes	Hal Moon & David Byrd
Aquaculture (HS/MS)	OUT	4	3	Yes	Yes	Carlos Martinez
Citrus (HS/MS)	IN	4	3	No	No	David Byrd
Dairy Cattle Evaluation and Management (HS/MS)	OUT	4	3	Yes	Yes	Chris Holcomb
Environmental Science and Natural Resources (HS)	OUT	4	3	Yes	Yes	Diane Mealo
Farm and Agribusiness Management (HS)	IN	4	3	Yes	No	Dr. Dustin Bass
Floriculture (HS/MS)	OUT	4	3	Yes	No	Merry Mott
Food Science and Technology (HS/MS)	IN	4	3	Yes	Yes	Drs. Keith & Renée Schneider
Forestry (HS/MS)	OUT	4	3	Yes	Yes	Jim Fleming
Horse Evaluation (HS/MS)	OUT	4	3	No	Yes	Dr. Sandra TenBroeck
Land Judging (HS/MS)	OUT	4	3	No	Yes	Dr. Rex Ellis
Livestock Evaluation (HS/MS)	OUT	4	3	No	Yes	Dr. Chad Carr
Meats Evaluation and Technology (HS/MS)	^	3*	3*	Yes	No	Dr. Chad Carr & Larry Eubanks
Nursery and Landscape (HS/MS)	OUT	4	3	Yes	No	Merry Mott
Ornamental Horticulture Demonstration (HS/MS)	IN	1-2	N/A	No	Yes	Dr. Ed Osborne
Poultry Evaluation (HS/MS)	OUT	4	3	No	No	Dr. Michael Davis
Safe Tractor Operations and Maintenance (HS)	OUT	1	N/A	No	Yes	Pam Walden
Tool Identification (MS)	IN	4	3	No	No	Scarlett Jackson
Vegetable Identification and Judging (HS/MS)	OUT	4	3	No	No	Lynn Nobles
Veterinary Assisting (HS)	^	4	3	Yes	Yes	Carrie Jo Anderson

\* MS Meats is a 4 member team, 3 scores counted.

^ See event rules for specific clothing requirements

<b>LEADERSHIP DEVELOPMENT EVENTS</b>						
Agricultural Issues Forum (HS)	IN	3-7	Team	No	No	Pam Walden
Conduct of Chapter Meetings (HS/MS)	IN	7	7	No	No	Charlotte Emerson
Creed Speaking (HS/MS)	IN	1	N/A	No	Yes	Becky Sharpe
Extemporaneous Public Speaking (HS/MS)	IN	1	N/A	No	Yes	Robert Raulerson
Employment Skills (HS)	IN	1	N/A	No	Yes	Shirley Carte & Doug Register
Opening and Closing Ceremony (MS)	IN	7	Team	No	Yes	Erica Hall
Parliamentary Procedure (HS/MS)	IN	6	Team	No	Yes	Charlotte Emerson
Prepared Public Speaking (HS/MS)	IN	1	N/A	No	Yes	Dr. Brian Myers



# OFFICIAL DRESS SCORING

## FFA OFFICIAL DRESS

The uniform worn by FFA members at local, state and national functions is called Official Dress. It provides identify and gives a distinctive and recognizable image to the organization and its members. Official Dress has been worn with pride by millions of FFA members since 1933.

### OFFICIAL DRESS FOR A FFA MEMBER INCLUDES:

- An official FFA jacket zipped to the top
- Black slacks or black skirt
- White collared blouse or white collared shirt
- Official FFA tie or Official FFA scarf
- Black dress shoes with a closed heel and toe
- Black socks or hosiery

Note - official garb of recognized religions may be worn with official dress

Note: the skirt is to be at least knee-length, hemmed evenly across the bottom, with a slit no higher than two inches above the knee, excluding the kick pleat. Black slacks may be appropriate for traveling and outdoor activities as outlined in the safety exceptions.

## SAFETY EXCEPTIONS

In extreme condition such as heat or inclement wether students may be asked to remove their FFA Jackets, ties and scarves.

Due to the nature of the event, some events do not require Official Dress. Participants should refer to the event rules for specific clothing instructions for the following events:

- Agricultural Technology and Mechanical Systems
- Meats Evaluation
- Veterinary Assisting

Additional safety exceptions include:

- Rubber boots may be worn during Land Judging. If desired, student can change footwear following Official Dress check prior to the start of the event.

## EVENT CLASSIFICATIONS

### INDOOR/LEADERSHIP EVENTS

- Agricultural Communications
- Agricultural Education
- Agricultural Issues Forum
- Agricultural Sales
- Citrus
- Conduct of Chapter Meetings
- Creed Speaking
- Employment Skills
- Extemporaneous Public Speaking
- Farm and Agribusiness Management
- Food Science and Technology
- Opening and Closing Ceremonies
- Ornamental Horticulture Demonstration
- Parliamentary Procedure
- Prepared Public Speaking
- Tool Identification

### OUTDOOR EVENTS

- Agricultural Technology and Mechanical Systems\*
- Aquaculture
- Dairy Cattle Evaluation and Management
- Environmental Science and Natural Resources
- Floriculture
- Forestry
- Horse Evaluation
- Land Judging
- Livestock Evaluation
- Meats Evaluation\*
- Nursery and Landscape
- Poultry Evaluation
- Safe Tractor Operations and Maintenance
- Vegetable Identification and Judging
- Veterinary Assisting\*

\* See event rules for clothing instructions.

Please review the official dress scoring rubric for specific requirements relation to indoor and outdoor events.



## OFFICIAL DRESS SCORING RUBRIC

GARMENT DESCRIPTION	POINTS
<p><b>FFA JACKET – ZIPPED TO THE TOP</b> Deduct 5 points if unwilling to zip to top</p> <p><i>Note: Points will not be deducted in cases where FFA jacket was unavailable (new members, middle school members, etc.) and all other official dress criteria is followed.</i></p>	<b>15</b>
<p><b>WHITE COLLARED SHIRT / BLOUSE</b> Deduct 5 points if shirt is not solid white or has no collar</p>	<b>10</b>
<p><b>BLACK SLACKS OR BLACK SKIRT</b> Deduct 5 points if skirt is more than 2 inches above the knee Deduct 5 points if fabric has tears or is patterned Deduct 5 points if jeans are worn in Indoor Events</p> <p><i>Note: Black Jeans are acceptable for Outdoor Events.</i></p>	<b>10</b>
<p><b>BLACK DRESS SHOES – CLOSED TOE &amp; CLOSED HEEL</b> Deduct 5 points for open toe and/or open heel</p> <p><i>Note: Dark black or brown shoes/boots are acceptable for Outdoor Events and when black dress shoes are not available.</i></p>	<b>10</b>
<p><b>BLACK SOCKS OR BLACK HOSIERY</b> Deduct 3 points for patterned hosiery</p> <p><i>Note: Students will not be asked to reveal garments that are not otherwise visible. If socks are completely covered by pants and shoes, full points will be given.</i></p>	<b>3</b>
<p><b>OFFICIAL FFA TIE OR OFFICIAL FFA SCARF</b></p> <p>Please note that not all ties and scarves purchased through National FFA are considered to be Official Dress. Please be sure that when purchasing you are purchasing ties and scarves that are listed as Official Dress in the FFA Blue catalog on or on shopffa.org.</p> <p><i>Note: Solid navy or black scarf/tie is acceptable when official FFA scarf/tie is not yet available.</i></p>	<b>2</b>