



# Georgia FFA Association

## FORESTRY - SENIOR CDE

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### I. OVERVIEW

The Forestry Career Development Event is an activity which provides opportunities for FFA members to demonstrate their technical and management skills in forestry.

### II. PURPOSE

The purpose of the Forestry CDE is to stimulate student interest and to promote forestry instruction in the agricultural education curriculum, and to provide recognition for those who have demonstrated skills and competencies as a result of forestry instruction.

### III. ELIGIBILITY

This event is open to students in grades 9-12 who are agricultural education students and are paid members of a chartered FFA chapter. Each member of the team must be a member of the chapter registering them, and each student's name must appear on the chapter's FFA roster at least 10 days prior to competition.

Ninth grade students who have competed in any Area or State Jr. Forestry CDE will not be eligible to compete in this event. Chapters are limited to eleven (11) participants per team. The top two (2) teams from each of the six Area CDEs may participate in the State Forestry CDE during the same year. Students who have won other State CDE's during the current school year will not be able to participate in the State Forestry CDE Team Activity, but they will be allowed to compete in the Individual Activities.

### IV. SPECIAL NEEDS REQUEST

To report any special needs or request special services for a student to compete in a Career Development Event or FFA Award area (Area or State level), it is the responsibility of the FFA advisor to provide a detailed and specific request and explanation in writing. Requests should include written documentation from the school system verifying the IEP and need being requested. Written requests must be submitted to the CDE Superintendent prior to registering for the CDE/event (at least 3 weeks prior to the date of competition.)

### V. RULES

1. All general rules apply to this CDE.
2. Team size shall consist of a maximum of eleven (11) members, with four (4) of these same students participating in the State Forestry CDE Team Activity. The maximum of eleven (11) members should reflect one (1) student in each of the ten events with the exception of forest management which may have two. No multiple teams or additional members will be considered at this time.
3. Participants should come to the event prepared for adverse weather conditions.
4. Participants will be escorted to the various event-staging sites. Each participant is to stay with his or her assigned group throughout the event, or until given permission to leave.
5. All written materials will be furnished for the event. No written materials such as tests, problems, and worksheets shall be removed from the event site.
6. Each team member shall enter only one event.
7. The time limit for the State Forestry CDE individual activities and the team event will be ninety (90) minutes. The time limit for individual activities at the Area Forestry CDE's will be sixty (60) minutes.
8. Score sheets **will not** be given out by judges prior to announcement of the winners. The decisions of the judges are **final**. The score sheets will be returned to advisors at a later date.



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### VI. EVENT FORMAT

#### A. Equipment

**Materials student must provide** – Each participant must have a clean, free of notes clipboard, two sharpened pencils, and may have an electronic calculator. Calculators used in this event should be non-programmable with only these functions – addition, subtraction, multiplication, division, equals, percent, square root, +/- key, and one memory register. No other calculators are allowed to be used during the event. Students may not have cell phones with them during the events.

Each participant must bring his or her own measuring instruments. Any standard type of measuring equipment will be allowed with the following exceptions: Digital Instruments, Staff compasses, Relascopes, Wheeler Pentaprism Calipers, Laser Rangefinders, Computers, GPS Instruments and Azimuth Compasses. If there is a question as to whether a particular piece of equipment will be allowed, the decision will be made by the Area Forestry Teachers.

**Provided** – Participants will be provided with blank score sheets, graph paper and exams, if applicable, to complete this event.

#### B. State Forestry CDE Team Activity (150 points)

This activity is a phase of the State Forestry CDE, and is a required activity for any team to represent the Georgia FFA Association at the National FFA Forestry CDE. A three or four (4) person team will participate in the following activity as a cooperative team activity, unless the activity is an exam. This team must be composed of individuals who are eligible to compete in the National FFA Forestry CDE.

Each team will perform tasks normally performed in some phase of the forest industry requiring teamwork to complete. These tasks will be described in situational terms for presentation to each team. Ninety minutes will be allowed to plan and complete the activity. The format of the team activity will be as follows:

Number of Questions - Questions / Problem Solving

- 5 – Tree Identification using Leaf Sprays
- 5 – Tree / Forest Disorders
- 5 – Wood Identification from “Wood Smart – The North American Wood Collection”
- 5 – Equipment Identification from the List
- 10 – Tree Measurement
- 5 – Compass and Pacing and Land Measurement
- 15 – Questions from this reference. *Science of Forestry Management*, by Kris Irwin.
  - 2015-2016 – Chapters B and C
  - 2016-2017 – Chapters D and E
  - 2017-2018 – Chapters F and G
  - 2018-2019 – Chapters H and I
  - 2019-2020 – Chapters J and K



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### C. Individual Activities

#### 1. Reforestation (100 points)

Each participant will be required to plant a designated number of tree seedlings at a designated spacing. The number of seedlings and the spacing will be determined by the judges. The participant will be judged on time, accuracy of spacing and effectiveness of planting. In addition, a short exam (ten questions), prepared by the judges, will be administered to each participant. Any questions pertaining to ordering seedlings will have a designated cull factor assigned to it.

Ten (10) points will be allowed for the following planting factors:

- a. Removing seedlings from the bag/bale or box
- b. Provisions for keeping roots moist
- c. Placement of seedlings into holes
- d. Depth of planting
- e. Closure of planting hole
- f. Straightness of seedlings

Twenty (20) points will be allowed for the spacing, and twenty (20) points will be assigned to the exam.

Ties shall be settled in the following order:

1. Time deduction
2. Score on the test
3. Oral questions

#### 2. Timber Stand Improvement and/or Thinning (100 points)

The trees selected and designated in this activity may be all of one species or a mixture of species. It will contain twenty (20) marked trees within a timber stand that needs thinning or TSI work. Only marked trees in the selected area will be considered as a forest management site, and the participants using one of the following options will score each marked tree as:

- a. Harvest (utilize the tree for a forest product)
- b. Leave (the tree should remain in the stand for some reason)
- c. Deaden (an undesirable tree with no value as a forest product or for wildlife or aesthetic purposes and should be treated with a herbicide or cut down and left in the woods)

The participants will be given a “situation” concerning the forest management objectives of the stand selected. Information that will be needed to help participants in their decisions will include:

- a. Markets available (including hardwood)
- b. Wildlife or aesthetic considerations
- c. Present condition of stand
- d. Final goal of the management plan

This information will be given to participants at the site before they start evaluation of the stand, either orally, by poster or on a handout.



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A reason should be given why each tree was harvested, left, or deadened from the following list. More than one reason may be used if the primary judge determines that two or more reasons are of equal importance.

- a. Future crop tree
- b. Non-merchantable
- c. Wildlife/aesthetics
- d. Insect infestation
- e. Disease
- f. Lack of vigor or growth, suppressed or restricted crown or spacing
- g. Crooked, forked, malformed or leaning
- h. Other

Depending on the management objective given, participants may also be asked to indicate the three best seed, crop, or wildlife/aesthetics trees. This decision will be left up the judge in charge of this event. Participants will be deducted three (3) points for each incorrect Harvest/Leave/Deaden selection. ***One-Half (.5) points will be deducted for each incorrect reason.***

The three best seed, crop, or wildlife/aesthetics trees, the number of correct Harvest/Leave/Deaden trees, and the number of correct reasons, in that order, will be used for tiebreakers, in that order. Oral questions may be used, if necessary, to break a tie.

### **3. Timber Cruising for Cord Volume (100 points)**

Using forest-measurement tools, such as diameter tapes, logger's tapes and clinometers, each participant will measure ten (10) pre-numbered standing trees for a volume in cords. The participant will record the dbh (diameter at breast height) to the nearest inch and the total height of each tree rounded **down** to the nearest 5-foot length.

Volume tables and weight factors will be provided to each participant to calculate cords and tons. Three (3) points will be allowed for the correct dbh and three (3) points for the correct height. Thirty-five (35) points will be allowed for the correct volume in cords. One (1) point will be deducted for each one (1) percent plus or minus from the correct measured volume in cords. Five (5) points will be allowed for the correct tonnage. One (1) point will be deducted for each five percent plus or minus from the correct calculated tonnage. Ties will be broken by total tons, most correct diameters, or most correct heights, in that order. Oral questions may be used, if necessary, to break a tie.

### **4. Timber Cruising for Board Foot Volume (100 points)**

Using forest-measurement tools, such as diameter tapes, logger's tapes and clinometers, each participant will measure ten (10) pre-numbered standing trees on a fractional (or assumed fractional) acre plot for a volume in board feet. The participant will record the dbh (diameter at breast height) to the nearest inch and the merchantable height of each tree rounded down to the nearest eight feet or ½ log. All tree defects, except for forks, are disregarded to determine merchantable height. Each participant will also be required to calculate the form class of one tree designated by the judge. The upper dib (diameter inside bark) at the top of the first 16 foot log will be provided to the participant.



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The following minimum diameters and log length will be:

Minimum DBH	10 inches
Minimum Top Diameter	8 inches
Minimum Height	1½ logs or 24 feet

Volume tables and weight factors will be provided to each participant prior to the event. Each participant will convert the volume to board feet per acre and tons per acre. Three (3) points will be allowed for the correct dbh and three (3) points for the correct height. Thirty (30) points will be allowed for the correct board feet volume per acre. One (1) point will be deducted for each one (1) percent plus or minus from the correct measured volume in board feet per acre. Five (5) points will be allowed for the correct tonnage per acre. One (1) point will be deducted for each five (5) percent plus or minus from the correct calculated tonnage per acre. Five (5) points will also be allowed for the correct form class. The form class should be rounded to the nearest whole number. Ties will be broken by total tons, most correct diameters, and most correct heights, in that order. Oral questions may be used, if necessary, to break a tie.

### 5. Tree Identification (100 points)

Participants will be required to identify, by common names, a designated number of tree species from the following list. Specimens could include trees, freshly cut foliage, herbarium sheets with pressed foliage, photographs of foliage, limbs, fruits, nuts, cones, bark, products or any other tree parts. Each contestant will be given a sheet with numbered blanks for each tree's common name. The complete common name should be reproduced **exactly** as given in the official species list with the **first letter of each new word of each tree capitalized**. No credit will be given for partially correct names. Clearly correct but misspelled names will receive half credit. Tiebreakers will be additional specimens from the list below. Oral questions may be used, if necessary, to break a tie. Each specimen will be weighted equally and the total converted to a 100-point basis.

Common Name	Scientific Name
1. Allegheny Chinkapin	<i>Castanea pumila</i>
2. American Beech	<i>Fagus grandifolia</i>
3. American Elm	<i>Ulmus americana</i>
4. American Holly	<i>Ilex opaca</i>
5. American Hornbeam	<i>Carpinus caroliniana</i>
6. American Sycamore	<i>Platanus occidentalis</i>
7. Ash	<i>Fraxinus</i> spp.
8. Baldcypress	<i>Taxodium distichum</i>
9. Basswood	<i>Tilia</i> spp.
10. Black Birch	<i>Betula lenta</i>
11. Black Cherry	<i>Prunus serotina</i>
12. Black Locust	<i>Robinia pseudoacacia</i>
13. Black Oak	<i>Quercus velutina</i>
14. Black Walnut	<i>Juglans nigra</i>
15. Black Willow	<i>Salix nigra</i>



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16. Blackgum	<i>Nyssa sylvatica</i>
17. Blackjack Oak	<i>Quercus marilandica</i>
18. Bluejack Oak	<i>Quercus incana</i>
19. Boxelder	<i>Acer negundo</i>
20. Buckeye	<i>Aesculus spp.</i>
21. Catalpa	<i>Catalpa bignonioides</i>
22. Cherrybark Oak	<i>Quercus pagoda</i>
23. Chestnut Oak	<i>Quercus prinus</i>
24. Chinaberry	<i>Melina azedarach L.</i>
25. Cucumbertree	<i>Magnolia acuminata</i>
26. Eastern Cottonwood	<i>Populus deltoides</i>
27. Eastern Hemlock	<i>Tsuga canadensis</i>
28. Eastern Hophornbeam	<i>Ostrya virginiana</i>
29. Eastern Redbud	<i>Cercis canadensis</i>
30. Eastern Redcedar	<i>Juniperus virginiana</i>
31. Eastern White Pine	<i>Pinus strobus</i>
32. Flowering Dogwood	<i>Cornus florida</i>
33. Hazel Alder	<i>Alnus serrulata</i>
34. Honeylocust	<i>Gleditsia triacanthos</i>
35. Laurel Oak	<i>Quercus laurifolia</i>
36. Leyland Cypress	<i>Cupressocyparis x Leylandii</i>
37. Live Oak	<i>Quercus virginiana</i>
38. Loblolly Pine	<i>Pinus taeda</i>
39. Longleaf Pine	<i>Pinus palustris</i>
40. Mimosa	<i>Albiza julibrissin</i>
41. Mockernut Hickory	<i>Carya tomentosa</i>
42. Mulberry	<i>Morus spp.</i>
43. Northern Red Oak	<i>Quercus rubra</i>
44. Overcup Oak	<i>Quercus lyrata</i>
45. Paulownia	<i>Paulownia tomentosa</i>
46. Pecan	<i>Carya illinoensis</i>
47. Persimmon	<i>Diospyrus virginiana</i>
48. Pignut Hickory	<i>Carya glabra</i>
49. Pitch Pine	<i>Pinus rigida</i>
50. Pond Pine	<i>Pinus serotina</i>
51. Pondcypress	<i>Taxodium ascendens</i>
52. Post Oak	<i>Quercus stellata</i>
53. Red Maple	<i>Acer rubrum</i>
54. River Birch	<i>Betula nigra</i>
55. Sassafras	<i>Sassafras albidum</i>
56. Sawtooth Oak	<i>Quercus acutissima</i>
57. Scarlet Oak	<i>Quercus coccinea</i>
58. Shortleaf Pine	<i>Pinus echinata</i>



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59. Silver Maple	<i>Acer saccharinum</i>
60. Slash Pine	<i>Pinus elliottii</i>
61. Sourwood	<i>Oxydendrun arboreum</i>
62. Southern Magnolia	<i>Magnolia grandiflora</i>
63. Southern Red Oak	<i>Quercus falcata</i>
64. Spruce Pine	<i>Pinus glabra</i>
65. Sugar Maple	<i>Acer saccharum</i>
66. Sugarberry	<i>Celtis laevigata</i>
67. Sumac	<i>Rhus spp.</i>
68. Sweetbay	<i>Magnolia virginiana</i>
69. Sweetgum	<i>Liquidambar styraciflua</i>
70. Table Mountain Pine	<i>Pinus pungens</i>
71. Turkey Oak	<i>Quercus laevis</i>
72. Virginia Pine	<i>Pinus virginiana</i>
73. Water Oak	<i>Quercus nigra</i>
74. White Oak	<i>Quercus alba</i>
75. Willow Oak	<i>Quercus phellos</i>
76. Winged Elm	<i>Ulmus alata</i>
77. Yaupon	<i>Ilex vomitoria</i>
78. Yellow-Poplar	<i>Liriodendron tulipifera</i>

## 6. Ocular Estimation (100 points)

Each participant will be required to estimate, without the use of any instrument, the diameters and heights of ten (10) pre-numbered standing trees. Participants will estimate the dbh (diameter at breast height) to the nearest inch and the heights should be rounded **down** to the nearest five (5) feet. Participants will not be allowed to be any closer than five (5) feet to the trees. Participants will also be required to place each tree in one of the following product classes. Any tree from which 1½ logs or 24 feet of clear logs can not be cut will be classified as pulpwood. "Clear" is defined as being free of deforming limbs, forks, major sweeps and cankers. **"Deforming limbs" are described as 3 green limbs of any size.** The clear section, of at least 1½ logs or 24 feet can be located in any portion of the tree.

Pulpwood	Minimum 6" DBH
Chip-N-Saw	Minimum 9" DBH to 12" DBH maximum with at least 1½ clear logs (24 feet)
Saw timber	Minimum 13" with at least 1½ clear logs (24 feet)

Four (4) points will be allowed for each correct diameter and three (3) points will be allowed for each correct height. Two (2) points will be allowed for each diameter within +/- one inch and two (2) points will be allowed for each height within +/- five feet. Three (3) points will be allowed for each correct product classification. Ties will be broken by most correct diameters, most correct heights and most correct product classes, in that order. Oral questions may be used, if necessary, to break a tie.







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- a. Markets available now and in the future
- b. Multiple use considerations
- c. Desired basal area of stand
- d. Final goal of management objective

Participants will be required to address the following concerns of the designated stand and the following points will be allowed:

- a. Stand classification (10 points) – The stand must be classified as Pine Pulpwood or Pine Sawtimber. No partial credit is allowed.
- b. Tree species present (10 points) – All merchantable species must be listed. Partial credit is allowed based on the number of correct species.
- c. Basal area per acre (30 points) – The current basal area of merchantable pine trees on a per acre basis must be determined. Partial credit is allowed based on a five (5) point deduction per ten (10) square feet of basal area deviation from the correct answer.
- d. Volume per acre (10 points) – The current volume on a per acre basis will be determined from the tally trees using a supplied formula that requires the measurement of total tree heights. Total heights will be measured and rounded **down** to the nearest foot, and the **actual** average total height to the nearest foot will be used in the formula. Normal mathematical rounding (to the nearest whole number) should be used. (Example: 67.3 average heights would be 67. 67.7 average heights would be 68). Partial credit is allowed based on a deduction of one (1) point for every one (1) ton from the correct answer.
- e. Problems in the stand (15 points) – The participant must identify the greatest problem(s) in the stand. Partial credit is allowed and is prorated based on the correct answers.
- f. Cultural operations needed (15 points) – The participant must determine from a given list which cultural operations are needed for the stand. Partial credit is allowed and is prorated based on the correct responses received.
- g. Prescribed cut for the given management objective (10 points) – The participant will be required to choose from the Seed Tree, Selection, Clearcut, or No Cut

Ties will be broken using total tons. Oral questions may be used, if necessary, to break a tie.

### 10. Tree/Forest Disorders (100 points)

Samples of at least ten (10), but no more than twenty-five (25), disorders from the following list will be displayed for the participants to identify and answer other questions concerning each disorder. (Identification of each disorder will be worth 3 points and the question will be worth 1 point). Participants will be responsible for identification of the disorder, the alternate host if applicable, the damage, the habits and life history, the means of recognition and control methods. The complete common name should be reproduced **exactly** as given in the official disorders list with **first letter of each new word of the disorder capitalized**. Clearly correct but misspelled names will receive half credit. Tiebreakers will be additional specimens from the list below. Oral questions may be used, if necessary, to break a tie.



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### Insects

Ambrosia Beetle  
Aphids  
Bagworm  
Black Turpentine Beetle  
Conifer Sawflies  
Cicada  
Eastern Tent Caterpillar  
Fall Webworm  
Gypsy Moth  
Hemlock Woolly Adelgid  
Insect Gall  
Ips Engraver Beetle  
Locust Borer  
Nantucket Pine Tip Moth  
Pales Weevil  
Pine Webworm  
Scales  
Southern Pine Beetle  
Southern Pine Sawyer

### Diseases

Annosum Root Disease  
Black Knot  
Brown Spot Needle Blight  
Cedar Apple Rust  
Fusiform Rust  
Hypoxylon Canker  
Littleleaf Disease  
Needle Casts  
Nectria Canker  
Pine Needle Rust  
Pitch Canker  
Slime Flux  
Sooty Mold  
Witches Broom

### Other Disorders

Fire Damage  
Mechanical Damage  
Mistletoe  
Wildlife/Livestock Damage

### Hazards of the Forest

Black Widow Spider  
Brown Recluse Spider  
Fire Ants  
Poison Ivy/Oak  
Saddleback Caterpillar  
Scorpion  
Tick  
Wasps

### Invasive Species

Autumn Olive  
Chinaberry  
Chinese Privet  
Chinese Tallow Tree  
Cogongrass  
Japanese Climbing Fern  
Kudzu  
Mimosa  
Paulownia  
Tree of Heaven  
Wisteria



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## VI. SCORING

Phase	Individual Points	Team Points
Reforestation	100	100
TSI/Thinning	100	100
Timber Cruising/Cord Volume	100	100
Timber Cruising/BF Volume	100	100
Tree Identification	100	100
Ocular Estimation	100	100
Land Measurement	100	100
Hand Compass Practicum	100	100
Forest Management	100	100
Tree/Forest Disorders	100	100
*Team Activity	NA	150
<b>Total Team Points</b>		<b>1,150</b>

\*This activity is only conducted as a phase of the State Forestry CDE, and is not a requirement of the Area Forestry CDEs. It is a requirement of teams competing in the National Forestry CDE. The total points allowed at an Area Forestry CDE are 1000 points, and the total points allowed at the State Forestry CDE are 1,150 points. Winners will be decided based on the total of actual number of points earned in each event.

## VII. TIEBREAKERS

Tiebreakers for teams will be the team with the highest score on the team event, the team with the most 1<sup>st</sup> place finishes, the team with the most 2<sup>nd</sup> place, etc., in that order. Tiebreakers for individual events were described previously, and any questions used for tiebreakers should be approved by the Area Forestry Teachers before the start of the CDE.

## VIII. AWARDS

Awards shall be determined each year by the Board of Trustees of the Georgia FFA Foundation. This event at the state level is made possible through the Georgia FFA Foundation as a special project of an industry sponsor or from the Foundation general fund. Minimum awards will recognize the first three places of individuals in each activity, first three teams in the team activity, and the first and second place teams at the state level. Area awards will be dependent on sponsorship of these events.

**IX. REFERENCES (listed by activity)** The current version of the Forestry CDE Guide is considered a supplement to these rules and may also be considered a reference. It contains sections on each activity and is up-dated every year.

### A. Reforestation

*Seedling Application*, current printing, Georgia Forestry Commission, P.O. Box 819, Macon, GA 31202-0819.

*Price Schedule*, current printing, Georgia Forestry Commission,



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P.O. Box 819, Macon, GA 31202-0819.

Georgia Agricultural Education Website, Georgia Department of Education ([www.gaaged.org](http://www.gaaged.org)).

*Reforestation Reference Material*

[Click to View](#)

### **B. Timber Stand Improvement and/or Thinning**

Georgia Agricultural Education Website, Georgia Department of Education ([www.gaaged.org](http://www.gaaged.org)).

### **C. Timber Cruising for Cord Volume**

Georgia Agricultural Education Website, Georgia Department of Education ([www.gaaged.org](http://www.gaaged.org)).

### **D. Timber Cruising for Board Foot Volume**

Georgia Agricultural Education Website, Georgia Department of Education ([www.gaaged.org](http://www.gaaged.org)).

### **E. Tree Identification**

Bishop, G. Norman, *Native Trees of Georgia*, current printing. Georgia Forestry Commission, P.O. Box 819, Macon, GA 31202-0819

Brown, Claud L. and Kirkman, L. Katherine, *Trees of Georgia and Adjacent States*, current edition, Portland, OR: Timber Press

Rushforth, Keith and Hollis, Charles, *The Pocket Guide To Trees*, current edition, International Paper Corporation, Savannah, GA

Williams, Dan D., *Tree ID Made Easier*, Possum Publications, Athens, GA (#9781466233836)

Georgia Agricultural Education Website, Georgia Department of Education ([www.gaaged.org](http://www.gaaged.org)).

### **F. Ocular Estimation**

Georgia Agricultural Education Website, Georgia Department of Education ([www.gaaged.org](http://www.gaaged.org)).

### **G. Land Measurement**

Georgia Agricultural Education Website, Georgia Department of Education ([www.gaaged.org](http://www.gaaged.org)).

### **H. Hand Compass Practicum**

Georgia Agricultural Education Website, Georgia Department of Education ([www.gaaged.org](http://www.gaaged.org)).

### **I. Forest Management**

Georgia Agricultural Education Website, Georgia Department of Education ([www.gaaged.org](http://www.gaaged.org)).



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### **J. Tree/Forest Disorders**

*Insects and Diseases of Trees in the South*, Protection Report R8-PR 16, U.S. Forest Service, Southern Region, 1720 Peachtree Street, NW, Atlanta, GA 30367-9102.

[www.georgiainvasives.org](http://www.georgiainvasives.org)

*Forest Health Guide for Georgia Foresters*, Fall-2001. Georgia Forestry Commission. Terry S. Price, Author.

Georgia Agricultural Education Website, Georgia Department of Education ([www.gaaged.org](http://www.gaaged.org)).

### **K. Team Activity (websites may be used with all activities)**

Georgia Agricultural Education Website, Georgia Department of Education ([www.gaaged.org](http://www.gaaged.org)).

National FFA Website, National FFA Organization ([www.ffa.org](http://www.ffa.org)).

Kris Irwin, *Science of Forestry Management*, current edition, Winterville, Georgia: American Association For Vocational Instructional Materials

“Wood Smart – The North American Wood Collection (321201)” (175 Pound Hill Road, Union, ME 04862)

### **L. Supplemental References (may be used with all activities)**

Anderson, David A., Holland I.I., and Rolfe, Gary L., *Forests and Forestry*, current edition. Danville, IL: The Interstate Printers Publishers, Inc.

Burton, L. DeVere, *Introduction to Forestry Science*, current edition, New York, NY: Delmar Publishers, Inc.

Camp, William G., and Daugherty, Thomas R., *Managing Our Natural Resources*, current edition, Albany, NY: Delmar Publishers, Inc.

*International Paper (Union Camp) School Forest Lesson Guide*, current printing, Agricultural Education, Georgia Department of Education, 1758 Twin Towers East, Atlanta, GA 30334.

*One Less Thing* Forestry materials; Alicia Tomlinson