

# 2025 FLORIDA 4-H FOREST ECOLOGY CONTEST SCORESHEET

**Instructions:** This station has 30 tree samples. For each sample (labeled A through DD), identify the plant material and then write the common name in the space next to the appropriate letter. Please print neatly and be sure your answer is legible. Common names must be the ones used on the Florida 4-H Forest Ecology website and must be complete. (E.g., "maple" is not a correct answer for "red maple.") Minor spelling errors (including capitalization) will result in ½ point deduction per tree.

<b>Senior – Tree ID</b>
BADGE NUMBER: _____
TOTAL SCORE: _____/30

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

D. \_\_\_\_\_

E. \_\_\_\_\_

F. \_\_\_\_\_

G. \_\_\_\_\_

H. \_\_\_\_\_

I. \_\_\_\_\_

J. \_\_\_\_\_

K. \_\_\_\_\_

L. \_\_\_\_\_

M. \_\_\_\_\_

N. \_\_\_\_\_

O. \_\_\_\_\_

P. \_\_\_\_\_

Q. \_\_\_\_\_

R. \_\_\_\_\_

S. \_\_\_\_\_

T. \_\_\_\_\_

U. \_\_\_\_\_

V. \_\_\_\_\_

W. \_\_\_\_\_

X. \_\_\_\_\_

Y. \_\_\_\_\_

Z. \_\_\_\_\_

AA. \_\_\_\_\_

BB. \_\_\_\_\_

CC. \_\_\_\_\_

DD. \_\_\_\_\_

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**Instructions:** You will be identifying 30 insect, disease, and stress samples. For each sample (labeled A through DD), find the correct identification in the list below and then write the number in the space next to the appropriate letter. You will receive 1 point for each correct answer.

<b>Senior – Forest Health</b>
BADGE NUMBER: _____
TOTAL SCORE: _____/30

## Insects

- |                             |                          |
|-----------------------------|--------------------------|
| 1. Ambrosia beetle          | 21. Fusiform rust        |
| 2. Black turpentine beetle  | 22. Hispidus canker      |
| 3. Cicadas                  | 23. Hypoxylon canker     |
| 4. Cottonwood leaf beetle   | 24. Laurel wilt          |
| 5. Cypress twig gall midge  | 25. Needlecast           |
| 6. Eastern tent caterpillar | 26. Oak leaf blister     |
| 7. Fall webworm             | 27. Pitch canker         |
| 8. Ips beetle               | 28. Powdery mildew       |
| 9. Pine sawflies            | 29. Sycamore anthracnose |
| 10. Pine tip moth           | 30. Tar spot             |
| 11. Pine webworm            |                          |

12. Scale insects
13. Southern pine beetle
14. Sycamore lacebug
15. Twig girdler

## Diseases

16. Annosus root rot
17. Armillaria root rot
18. Bacterial leaf scorch
19. Cedar-apple rust
20. Fireblight

## Stresses

31. Catface
32. Galls
33. Lightning
34. Mistletoe
35. Witches'-broom

- |          |           |
|----------|-----------|
| A. _____ | P. _____  |
| B. _____ | Q. _____  |
| C. _____ | R. _____  |
| D. _____ | S. _____  |
| E. _____ | T. _____  |
| F. _____ | U. _____  |
| G. _____ | V. _____  |
| H. _____ | W. _____  |
| I. _____ | X. _____  |
| J. _____ | Y. _____  |
| K. _____ | Z. _____  |
| L. _____ | AA. _____ |
| M. _____ | BB. _____ |
| N. _____ | CC. _____ |
| O. _____ | DD. _____ |

2025 FLORIDA 4-H FOREST ECOLOGY CONTEST SCORESHEET

**Map Instructions:** Please provide the correct answer (A, B, C, or D) to each of the five questions displayed on the table. 2 points for each correct answer.

<b>Senior – Map &amp; Compass</b>
BADGE NUMBER: _____
TOTAL SCORE: _____/22

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

<i>Do not write in the scoring box.</i>		
<b>SCORE</b>		
Map symbols subtotal: _____(0-10)		
Line	Bearing (2)	Distance (2)
A-B	_____	_____
B-C	_____	_____
C-A	_____	_____
Compass subtotal: _____(0-12)		
TOTAL: _____(out of 22)		

**Compass Instructions:** Please provide the correct bearing and distance in feet between each pair of points. 12 points possible (4 points per line: 2 points bearing, 2 points distance). ½ point taken off for each increment of 4 degrees or 3 feet in error.

Line	Bearing	Distance
A-B	_____	_____
B-C	_____	_____
C-A	_____	_____

# 2025 FLORIDA 4-H FOREST ECOLOGY CONTEST SCORESHEET

**Instructions:** Please write the correct answer (A, B, C, or D) on your scoresheet. You will receive 1 point for each correct answer.

<b>Senior – Forest Management</b>
BADGE NUMBER: _____
TOTAL SCORE: _____/20

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_

## 2025 FLORIDA 4-H FOREST ECOLOGY CONTEST SCORESHEET

**Instructions:** You will measure 4 standing trees and fill out the table below. For each tree, identify the species and estimate the diameter and merchantable height. Diameter at Breast Height (DBH) should be measured and recorded in even 2-inch diameter classes. Height should be measured in 16-foot logs to the nearest full half-log. Merchantable height should be measured from stump height to either an 8-inch top diameter, a major fork, or a serious defect that affects more than half the tree's diameter at that point.

In addition, you will determine the total volume in the plot and the volume per acre. Ten points will be allowed for the correct volume per acre. The plot acreage and tree volumes can be found in the table below. Remember, the total volume in the plot must be multiplied by a factor (20 for a 1/20-acre plot, 10 for a 1/10-acre plot, 5 for a 1/5-acre plot and 4 for a 1/4-acre plot) to determine the volume per acre. Point allocation will be 10 points for  $\pm 5\%$  of the official volume, 8 points for  $\pm 10\%$ , 6 points for  $\pm 15\%$ , and no points over  $\pm 15\%$ .

The tree measurement volume table is provided on the back of this scoresheet.

<b>Senior – Tree Measurement</b>
BADGE NUMBER: _____
TOTAL SCORE: _____ / 30

Tree #	Species (1 pt)	DBH (2 pts)	Height (2 pts)	Volume	Score
1					
2					
3					
4					
	Total board foot volume in plot				
	Total board foot volume per acre				
a. Subtotal of tree scores (20 points possible)					
b. Score for volume per acre (10 points possible)					
TOTAL score (a + b)					

Plot size: \_\_\_\_\_

## Tree Measurement Volume Table

International ¼ inch Log Rule -- Form Class 78  
**VOLUME (board feet) BY NUMBER OF 16-FOOT LOGS**

DBH	HEIGHT (NUMBER OF 16-FOOT LOGS)								
	1	1½	2	2½	3	3½	4	4½	5
10	36	48	59	66	73	-----	-----	-----	-----
12	56	74	92	106	120	128	137	-----	-----
14	78	105	132	153	174	187	200	-----	-----
16	106	143	180	210	241	263	285	-----	-----
18	136	184	233	274	314	344	374	-----	-----
20	171	234	296	348	401	440	480	511	542
22	211	290	368	434	500	552	603	647	691
24	251	346	441	523	605	664	723	782	840
26	299	414	528	626	725	801	877	949	1,021
28	347	482	616	733	850	938	1,027	1,114	1,201
30	403	560	718	854	991	1,094	1,198	1,306	1,415
32	462	644	826	988	1,149	1,274	1,400	1,518	1,637
34	521	728	934	1,119	1,304	1,447	1,590	1,727	1,864
36	589	826	1,063	1,274	1,485	1,650	1,814	1,974	2,135
38	656	921	1,186	1,428	1,670	1,854	2,038	2,224	2,410
40	731	1,030	1,329	1,598	1,868	2,081	2,294	2,494	2,693