

FORESTRY CONTEST

Contest Description:	4-H'ers will learn how to identify up to twenty (20) tree species from leaves, as well as measuring ten (10) designated trees to determine the board foot volume. Contestants will also be tested on measuring the distance and azimuth or bearing for five lines. Distances must be measured by pacing, and the direction must be determined by use of a handheld, mirror-sighting manual compass. Forestry judging also includes the identification of common name ten (10) insects and ten (10) diseases that impact our forests. The final component is a written test which is developed from the educational support materials.
Superintendent(s):	Robbie Hutchins
Award:	National 4-H Forestry Invitational Contest
Grade/Age Requirement(s):	Due to the contest being a qualifier for a national 4-H contest participants must be 14-18 years old as of January 1.
Team or Individual Contest:	Individual
Number of Entries Per Parish:	Each parish can enter one (1) to eight (8) individuals for a judging contest.

Contest Rules:

1. Refer to Louisiana 4-H University General Rules and Guidelines for a complete set of event rules and guidelines. Explanation of team structure can be found on pages 8-9.
2. Contestants must bring a compass, clip board, calculator, and measuring stick. Cell phones will not be allowed to be used as a calculator.
3. Contestants will be required to identify by common name twenty (20) trees from leaves from the attached tree list. Leaves used for the contest may be either fresh samples or mounted specimens. A color picture may be used as a leaf sample. Trees must be identified by the name given on the tree list. No other name will be accepted. Answers will be scored as totally correct or totally incorrect. No partial credit will be given for identification. Only proper nouns are capitalized. One-fourth (1/4th) point will be deducted for misspelling. The spelling must be the same as that on the tree list, including capitalization.
4. The contestants will be required to measure 10 designated trees to determine the board foot volume. The dbh, to the nearest 2-inch, even-numbered class, and the number of logs, to the nearest ½ log, will be measured with a tree measuring stick. Stickers (23, 24, 25 inch reach) for making tree measuring sticks can be obtained from Dr. Dozier's Office (RNR Building). The designated trees will represent a sample plot of 1/10, 1/5, or ¼ acre. The contestant will be required to give the total board foot volume on one (1) acre, as determined from the sample plot volume of the designated trees. (See attached score sheet.) Thirty bonus points will be given for the correct volume per acre. Point allocation will be 30 points for the +/-5% or the official volume, 20 points for the +/-10%, 10 points for the +/-15% and no points for over +/- 15%. The contestant will also be required to identify each tree by common name.
5. A written test will be given from information contained in the contest study guide.
6. The contestant will be required to measure the distance and azimuth or bearing for five lines. Distances must be measured by pacing and the direction can only be determined by the use of a hand-held, mirror-sighting manual compass (no other type of compass will be allowed). Each line is worth 4 points, 2 points each for compass reading and distance. There will be a 2/10 point deduction for each degree off the correct answer, up to 2 points or 10 degrees off. There will be a 1/10 point deduction for each foot of distance off the correct answer, up to 2 points or 20 feet off.
7. Contestants will be required to identify by common name ten (10) insects from the study guide insect list and ten (10) diseases from the attached disease list. Contestants will be responsible for identifying the

insect or the damage caused by the insect. A color picture may be used for an insect or disease sample. Insects and diseases must be identified by the name given on the attached lists. No other names will be accepted. Answers will be scored as totally correct or totally incorrect. No partial credit will be given for identification. Only proper nouns are capitalized. One-fourth (1/4th) point will be deducted for misspelling. The spelling must be the same as that on the insect and disease list, including capitalization.

1. Score will be determined on the following.
 - a. Tree identification - 20%
 - b. Volume measurements – 25%
 - c. Written test – 15%
 - d. Insect and disease identification – 20%
 - e. Pacing and compass – 20%
 - f. Total – 100%
2. Suggested references:
 - a. 4-H Forestry & Woodworking Project (7-9 grades), Pub. 2531
 - b. 4-H Forestry, Unit 2, Pub. 1645
 - c. Leaf Key to Common Trees in Louisiana, Pub. 1669
 - d. “A Pocket Guide to Louisiana Native Trees”, by Friends of Hilltop Arboretum, available from Area Extension Foresters and Dr. Hallie Dozier.
 - e. Insects and Diseases of Trees in the South, USDA Forest Service General Report R8-GR5.

Other Information

National Contest. The top team will be eligible to compete in the national contest in West Virginia. The national contest team will receive special training.

Contest Resource(s):

- Forestry Judging Contest Study Guide, Revised 2022.