

# Forestry

## Event Rules

All members participating in this Career Development Event must meet the eligibility requirements and adhere to the rules of the Kentucky FFA Association as outlined in the Rules Governing FFA Activities document.

Number of members on a team: Four (All four scores will be used to calculate the team score.)

Official Dress Appropriate: No

Regional Event: No

State Event: April- Green River Lake State Park

The event officials reserve the right to stop a participant at any time when damage to parts or instruments appears to be imminent or safety of the participant is questioned.

No team shall practice Forestry Judging within Green River Lake State Park in the 30 days prior to the contest. Teams found to be in violation of this rule will be disqualified.

## EQUIPMENT

Equipment provided by student:

- Clipboard
- Pen or Pencil
- Biltmore Stick
- Compass (odd years only)
- Binoculars
- Non-programmable calculator
- Insect repellent

Students WILL be in the forest and should dress accordingly. Recommended dress includes long pants, close toed shoes (preferably boots), and rain gear if the forecast calls for rain.



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## WRITTEN EXAMINATION (200 POINTS)

Test will consist of 50 general knowledge questions about forestry terms, measurements, statistics, pests, and other related topics.

Primary references for the examination include the following:

National FFA Forestry Career Development Events Handbook

Forests & Forestry, 4th edition, Holland et al.

U.K. Extension Publications: FOR 2, FOR 3, FOR 4, & FOR 9

Kentucky Division of Forestry <http://www.forestry.ky.gov>

Kentucky Department of Fish and Wildlife Resources <http://fw.ky.gov/>

## TIMBER CRUISING (250 POINTS)

Participants will measure 10 trees.

Participants will record DBH (Diameter Breast Height) to the nearest one-inch class for each tree. Ten (10) points will be awarded for each correct answer. Five (5) points will be awarded if the participant's answer is within 1 inch above or below the official measurement.

Participants will record the merchantable height of each tree rounded down to the nearest ½ log. Ten (10) points will be awarded for each correct answer. Five (5) points will be awarded if the participant's answer is within ½ log of the official measurement. For purposes of this contest a log is 16 feet long. Merchantable Height stops are estimated to the upper point on a tree where it becomes 10 inches in diameter or where a major fork in a tree stem occurs or where a limb has a diameter equal to ½ of the diameter of the tree at that point.

Participants will record the number of board feet in the tree. Volume tables will be provided for the event. Five points will be awarded for each correct measurement of board feet.

The minimum diameters and log lengths will be:

DBH	10 inches
Top Diameter	10 inches DIB
Height	16 feet

The Doyle Log Scale will be used.



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## TREE IDENTIFICATION (200 POINTS)

Participants will identify 25 trees that are native to Kentucky.

The list of possible trees is posted at [www.kyffa.org](http://www.kyffa.org)

## EVEN YEAR PRACTICUMS (300 POINTS)

The following practicums will be used in even numbered years (2022, 2024, etc.)

### Chainsaw Part Identification, Troubleshooting, and Safety (100 points)

This practicum will consist of one or more of the components listed below. Components may utilize photos, video, actual items, written situations, and/or problems.

- Chainsaw parts identification: Each participant will identify parts of a chainsaw (not including internal engine components.)
- Troubleshooting: Participants will identify problems or trouble with the chainsaw or chainsaw components.
- Safety: Participants will identify safety hazards, unsafe practices, and/or proper safety equipment.

### Map Interpretation (100 points)

Participants will answer questions using a furnished United States Geological Survey topographic map. Participants should know the legal description, recognize topographic map symbols, understand the meaning of map symbols, size and location of 40 acres or more in a parcel.

### Forest Products (100 points)

Ten to twenty wood products/samples will be displayed for participants to evaluate and identify its tree species source from the tree identification specimen list. The wood products/samples will be presented as actual samples, pictures/slides, and/or written descriptions. The list of tree specimens is available at [www.kyffa.org](http://www.kyffa.org)



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## ODD YEAR PRACTICUMS (300 POINTS)

The following practicums will be used in odd numbered years (2023, 2025, etc.)

### Tool ID (100 points)

Participants will identify 20 forestry related tools. The tool identification list is posted at [www.kyffa.org](http://www.kyffa.org)

### Compass and Pacing (100 points)

Participants will use a hand compass and pacing (to the nearest full foot) to simulate the determination of the property lines on a tract of timber. The participant will start at any point and record the compass reading and distance to the next point. Azimuth readings shall be recorded.

Ten points will be giving for each correct measurement. Partial credit will be given with a deduction of one point for each two degrees or two feet the participant is off the correct answer.

### Tree Forest Disorders (100 points)

Symptoms of 10-20 tree disorders will be displayed for the participants to identify by common names. The symptoms may be presented in any of the following forms: actual samples, pictures/slides, written descriptions, and/or written case history. The list of possible disorders is available at [www.kyffa.org](http://www.kyffa.org)

## Scoring

Possible score for each participant is 950 points, with a possible team score of 3800 points.

All four team members' scores will count toward the team score.

Teams will be ranked in numerical order on the basis of the final team score.

Individuals will be ranked in numerical order on the basis of the final individual score.

## TIEBREAKER

In case of a tie, the highest individual score on a team will be used to break the tie (for all placings).

