2023 State FFA Forestry Career Development Event

The State FFA Forestry Career Development Event will be conducted for teams of up to four contestants from each participating chapter of whose scores the top **FOUR** will be counted. Participants must come prepared to work outside in adverse weather conditions. They should have **heavy coats**, other warm clothes, **rain gear and footwear**. Contestants are expected to bring their own pencils.

EVENT RULES

1. No team member or team coach shall visit the event facilities to observe plant materials and facilities after May 1. Any team, team member or coach reported and proven to do so will cause the elimination of that team from competing in the State Forestry Career Development event.

2. **Tools and Equipment:** All tools and equipment will be furnished for the event. Participants must use the tools and equipment furnished at the event site.

3. **Written Materials:** 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.

PHASE I: BASIC KNOWLEDGE AND CONCEPTS, GENERAL KNOWLEDGE EXAM (100 POINTS)

Forty-five objective-type multiple-choice questions and five photo or sample identifications of common tree disease/damage agents will be selected from areas of the forestry industry reflected in the event objectives. This phase of the event will test participant's knowledge and understanding of basic principles of forestry. Some questions may also pertain to forestry management/finances, chainsaws and to map interpretation.

TIME: Each individual will be allowed 30 minutes to complete this phase of the event.

SCORING: Each answer has a value of two points, for a total maximum score of 100 points.

POSSIBLE TYPES OF TREE DISEASE / DAMAGE AGENTS

Aphid (inc. Adelgid Aphid)
Beetles
Butt or heart rot
Canker
Chemical damage
Cicada
Damping off
Fire damage
Girdling
Gypsy moth
Ice damage
Leaf spot
Lightning damage
Mechanical logging/construction damage
Needle cast
Nematode
Rust
Sawfly
Scale
Spider mite
Spruce budworm
Sunscald
Tent caterpillar
Wetwood or slime slug
Wind damage
Woodborer

PHASE II: TREE IDENTIFICATION (100 POINTS)

Twenty trees or tree specimens from the following list will be viewed by participants to identify by common names. Each specimen will be designated by a number.

TIME: Each participant will be allowed 30 minutes to complete this phase, or approximately two minutes for each specimen station.

SCORING: Five points will be given for each tree/specimen that is correctly identified.

LIST OF POSSIBLE SPECIMENS

Alder
American Basswood
Apple
Balsam Fir
Balsam Poplar
Beech /American Beech
Big Tooth Aspen / Large-Tooth Aspen
Black Ash / Swamp Ash
Black Cherry
Black Walnut
Box Elder
Cottonwood
Eastern Hemlock
Eastern Hophornbeam/ Ironwood
Elm
Gray Birch
Northern Red Oak / Red Oak
Northern White Cedar / Eastern White Cedar
Northern White Oak / White Oak
Norway Spruce
Quaking Aspen
Red Cedar / Eastern Juniper
Red Maple
Red Pine
Red Spruce
Service Berry / Shad Bush
Striped Maple / Moose Maple
Sugar Maple
Tamarack / Larch / Eastern Larch
White Ash
White Birch / Paper Birch
White Pine / Eastern White Pine
Willow
Yellow Birch

PHASE III: GPS OPERATION (50 points)

The students will be asked to Interpret a cut map and walk and mark the locations of several Points of interest (POI) and measure linear distances and acreage. (The sample area will be no greater than 5 acres). Students will be tested on the following GPS skills:

a. Mark (POI's)
    i. Report on the latitude & longitude of the POI's
b. Measure a cut block
    ii. Report the acreage
c. Measure a stream buffer
    iii. Report the acreage
d. Measure liner distance that involves multiple changes of directions.
    iv. Report in feet

TIME: Each participant will be allowed 30 minutes to complete this portion of the phase III.

SCORING:

TOTAL POSSIBLE SCORE:

Individual: **250 Points**

Team: **1,000 Points** (sum of four designated Official Team individuals)