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# TRACTOR DRIVING



State 4-H O-Rama

Senior 4-H'ers



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Participants in the Tractor Driving Activity proceed directly from county eliminations to the Arkansas 4-H O-Rama. Only one senior winner from each county is eligible. Studying the Petroleum Power manuals, practicing the driving course on the "Score Sheet - 4-H Tractor Driving," and competing at the county event are essential preparation for a contestant.

## OBJECTIVES

Targeted Life Skills: marketable skills, personal safety, problem solving, cooperation.

Opportunity will be provided for faculty to share information about related college degree programs in Ag Systems Technology Management, Biological and Agricultural Engineering, Agricultural Mechanization, or Mechanical Engineering and career options in Ag or Mechanical Engineering, Technology Research, Agricultural Equipment Sales and Services, and Ag Science Education.

To encourage and evaluate participant's knowledge of tractor and implement fundamentals, safe and proper tractor operation, and ability to accurately steer a tractor and trailer.

## ELIGIBILITY

Each county may enter a senior 4-H member in the Arkansas 4-H O-Rama. In addition to the usual registration, the Tractor Driving Activity requires a completed copy of a waiver of responsibility signed by a parent or guardian of the county senior. The waiver is included in the O-Rama Case File available in the county Extension office. It should be returned to Gary Huitink, Extension Engineer, State Office, at least two weeks prior to the Arkansas 4-H O-Rama. The county is responsible to assure that their entry is a 4-H member at least 14 years old but not 19 before January 1 of the current calendar year. This person is selected through a competitive activity or judging procedure.

## **RULES AND JUDGING**

All contestants will be judged on four parts listed below:

- I. Written Examination
- II. Parts Identification
- III. Tractor Safety
- IV. Two-Wheel Trailer Course

Questions on the written exam are taken from all four 4-H member project books: 1) Tractor Basics, R-102, 2) Tractor and Engines & Lubricants, R-103, 3) Tractor Maintenance, R202, and 4) Tractor Systems, Transmissions and Controls, R-302. Parts identification will require knowing the proper name of labeled parts on or from a tractor (if available). Tractor safety is scored during driving; items are described in detail on "Score Sheet – 4-H Tractor Driving." Reasonable substitutions and changes will be made to adapt to time deadlines and available equipment.

## AWARDS

First-place trophy. Second, third, fourth, and fifth places receive ribbons. State winner is eligible to compete at National 4-H Engineering, Science and Leadership Event, West Lafayette, Indiana. Out-of-state trip expense will be covered if funding is available. Anyone who has won the tractor event previously and participated as the state winner in any other national engineering event (such as Automotive) is ineligible. Only two trips to the national engineering event are allowed.

## **PARTICIPANT'S REFERENCES**

4-H Members' Project Books (for sale - <http://pubs.uaex.edu/pubsWebuser.asp>)

## **RESOURCES**

1. 4-H Project Books:
  - a) Tractor Basics, R-102
  - b) Tractor and Engines & Lubricants, R-103
  - c) Tractor Maintenance, R202
  - d) Tractor Systems, Transmissions and Controls, R-302
2. Other educational materials are available from the National Safety Council, local farm Equipment dealers, or vocational agriculture libraries.

## PREPARED BY

Rick Fields, Program Associate – Bio & Ag Engineering

**Note:** Achievements in tractor driving contests should be reported in 4-H record books under Energy Management. When appropriate, this work may also be reported under related areas such as safety, agriculture, field crops, achievement, etc.