

# ANIMAL SCIENCE



District & State 4-H O-Rama  
Junior & Senior 4-H'ers



## OBJECTIVES

**Targeted Life Skills:** Self-esteem, Character, Self-discipline, Self-motivation, Teamwork, Leadership, Cooperation, Planning/Organizing, Critical Thinking, Problem Solving

The opportunity will be provided for participants to display their knowledge of animal genetics, reproductive physiology, production, nutrition, management, and/or marketing practices.

Participants will be encouraged to become familiar with scientific research and its influence on animal production, management, and marketing practices.

4-H'ers will have the opportunity to develop integrity, sportsmanship, cooperation, and the ability to speak in public.

## ELIGIBILITY

**District 4-H O-Rama:** Each county may enter two junior (9-13) and two senior (14-19) members at the District 4-H O-Rama.

**Arkansas 4-H O-Rama:** The Top 7 senior members from the district contests will be eligible to compete at the state contest.

## ACTIVITY

Each participant should be prepared to present an illustrated talk or method demonstration in an area of animal science such as animal genetics, production, nutrition, management, or marketing practices. The presentation can deal with animal species such as beef, dairy, swine, goats, sheep, and other livestock. (Method demonstrations and illustrated talks related to horses must be presented in the "4-H Horse Activity"; talks related to animal health must be presented in the "4-H Vet Science Activity".)

Seniors should give scientific, factual based presentations pertaining to livestock. Scholarly research should be conducted to obtain relevant, factual information. Example suggested topics for seniors include:

- Antibiotics in food
- Grass fed versus grain fed
- Hormones in meat production
- Alternative feed sources
- Natural breeding versus artificial insemination
- Implanting versus non-implanted stocker calves
- Pre-conditioned versus non pre-conditioned
- PEDv in swine

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- African Swine Fever and its implications
- Fake Meat
- Food Waste
- Food Safety
- Current issues
- Nutrition

Example suggested topics for juniors include:

- Antibiotics in food
- Grass fed versus grain fed
- Hormones in meat production
- Artificial Insemination
- Alternative feed sources
- PEDv in swine
- Food Waste
- Food Safety
- Heterosis
- Breeding and Genetics
- Current issues
- Livestock breed differences
- Bos Taurus vs. Bos Indicus
- Nutrition

**\*\*It is best to choose topics that are objective. Choosing topics that are subjective (selection, how to show, etc.) are highly discouraged.\*\***

Illustrated talks should make full use of visuals and experience. A junior will be limited to a two-to-five-minute talk. Senior talks will be from five to eight minutes. The judges reserve the right to ask questions related to the topic discussed in the illustrated talk or method demonstration.

## JUDGING

This activity will be judged on the standard score sheet for method demonstrations and illustrated talks- CES-663.

## AWARDS

**District 4-H O-Rama:** One trophy will be awarded to the high-scoring junior participant and one trophy to the high scoring senior. Second-, third-, fourth-, and fifth-place winners in the junior and senior divisions will receive ribbons.

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**Arkansas 4-H O-Rama:** One trophy will be awarded to the high-scoring senior. Second-, third-, fourth-, and fifth-place winners will receive ribbons.

**PREPARED BY**

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**Note:** Work done in connection with district and state animal science activities should be reported in 4-H Record Books under the related animal species such as beef, swine, dairy, etc. It may also be reported under agriculture.