

Large Animal Management (2023)

Analyze animal production methods for use in animal systems based upon their effectiveness and impacts. [AFNR.HS.22.1](#)

- a** Identify and categorize terms and methods related to animal production (e.g., sustainable, conventional, humanely raised, natural, organic). [AFNR.HS.22.1.A](#)
- b** Identify marketing methods for animal products and services (e.g., conventional, niche markets, locally grown). [AFNR.HS.22.1.B](#)
- c** Assess the impact of animal production methods on end-product qualities (e.g., price, sustainability, marketing, labeling, animal welfare). [AFNR.HS.22.1.C](#)

Justify management techniques that ensure animal welfare. [AFNR.HS.22.2](#)

- a** Distinguish between animal husbandry practices that promote animal welfare and those that do not. [AFNR.HS.22.2.A](#)
- b** Devise, implement, and evaluate safety procedures and plans for working with animals by species using information based on animal behavior and responses. [AFNR.HS.22.2.B](#)
- c** Design animal handling programs and procedures that assure the welfare of animals and prevent abuse or mistreatment. [AFNR.HS.22.2.C](#)

Design feed rations to meet the nutritional needs of animals. [AFNR.HS.22.3](#)

- a** Compare and contrast common types of feedstuffs for various species and the roles they play in the diets of those animals. [AFNR.HS.22.3.A](#)
- b** Determine the relative nutritional value of feedstuffs by evaluating their general quality and condition. [AFNR.HS.22.3.B](#)
- c** Differentiate between nutritional needs of animals in different growth stages and production systems (e.g., maintenance, gestation, natural, organic). [AFNR.HS.22.3.C](#)
- d** Analyze balanced rations for animals based on the animal's growth stage (e.g., maintenance, newborn, gestation, lactation). [AFNR.HS.22.3.D](#)
- e** Demonstrating the relationship between the nutrient requirements and the feedstuffs provided. [AFNR.HS.22.3.E](#)
- f** Analyze the adequacy of feed rations using data from the analysis of feedstuffs, animal requirements, and performance. [AFNR.HS.22.3.F](#)

Analyze biosecurity measures utilized to protect the welfare of animals on a local, state, national, and global level. AFNR.HS.22.4

- a Summarize the importance of biosecurity to the animal industry at multiple levels (e.g., local, state, national, global).** AFNR.HS.22.4.A

- b Analyze procedures at the local, state, and national levels to ensure biosecurity of the animal industry.** AFNR.HS.22.4.B

- c Evaluate a biosecurity plan for an animal production operation.** AFNR.HS.22.4.C

Design animal housing and equipment and handling facilities for the major systems of animal production. AFNR.HS.22.5

- a Differentiate between the types of housing facilities utilized to produce animal species safely and efficiently.** AFNR.HS.22.5.A

- b Analyze designs for an animal facility and prescribe alternative layouts and adjustments for the safe, sustainable, and efficient use of the facility.**
AFNR.HS.22.5.B

- c Design an animal facility focusing on animal requirements, economic efficiency, sustainability, safety, and ease of handling.** AFNR.HS.22.5.C