

Feedyard – 15: an ongoing project aimed to improve safety and health in the cattle feeding industry

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Introduction

- Agriculture sector tops the rank being most hazardous industries to work at. Subsector, beef cattle ranching, farming including feedlots have higher injury.
- Cattle feeding industry is mainly concentrated in the Central states of the US.
- Few research projects on health and safety issues in Cattle feeding industry.
- Feedyard 15 is an innovative projects with the long-term goal of reducing the burden of injuries and illnesses among cattle feedlot workers.

Objective:

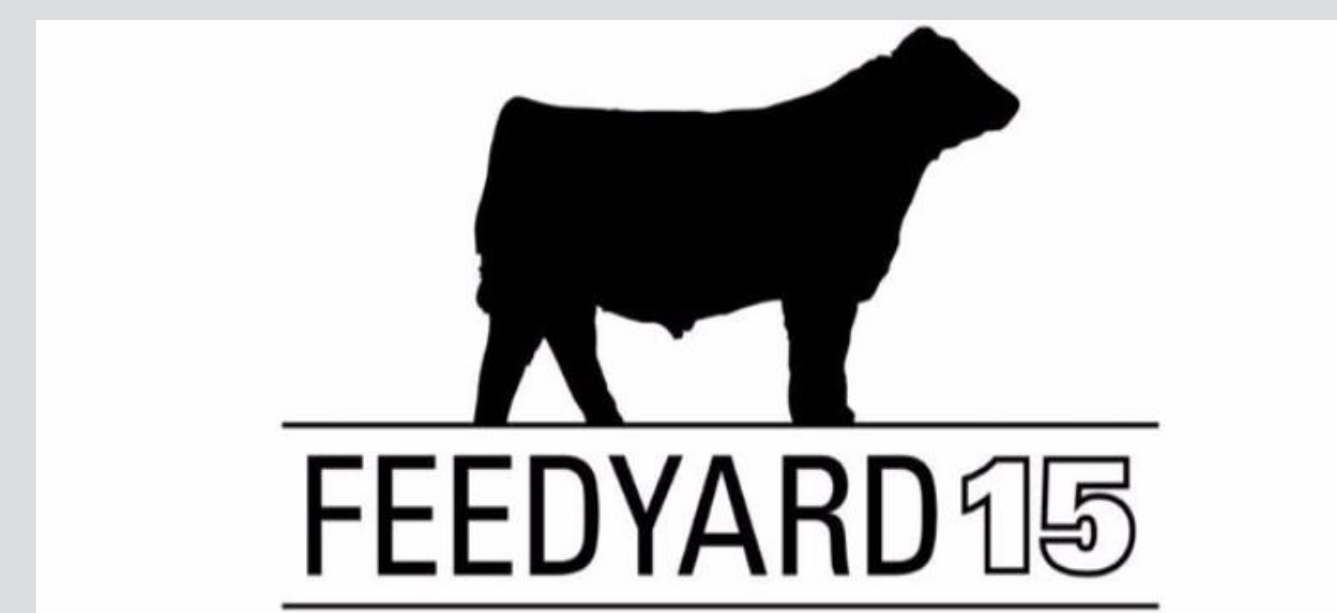
To develop and implement a comprehensive feedyard safety and health training program and evaluate its efficacy.

Methods

- Comprehensive feedyard safety and health training program.
- Participating feedyards provide training on Feedyard 15 topics to their employee.
- The training materials and Quiz are provided into English and Spanish language.
- To support the development of curriculum, team reviews literature and available sources on counts, rates, lost time, cost of injury and illnesses.
- Ethnography study (Job shadowing) is applied to collect qualitative data on injury, illness, prevention, and program impact.
- Workers' compensation data will be reviewed for associated direct and indirect costs to determine the applicability of training to the cattle feeding industry.

Topics

1. Slips Trips and Falls
2. Horsemanship
3. Feedmill Safety
4. Bunker Silos and Silage Piles
5. Cattle Processing



6. Emergency Response
7. Extreme Weather
8. Manure Lagoons
9. Tractors and Loaders
10. ATV-UTV Safety

11. Cattle Handling/Stockmanship
12. Electrical Hazards
13. Chemical Hazards
14. Machine Shop Hazards
15. Mobile Equipment/Autos

Findings

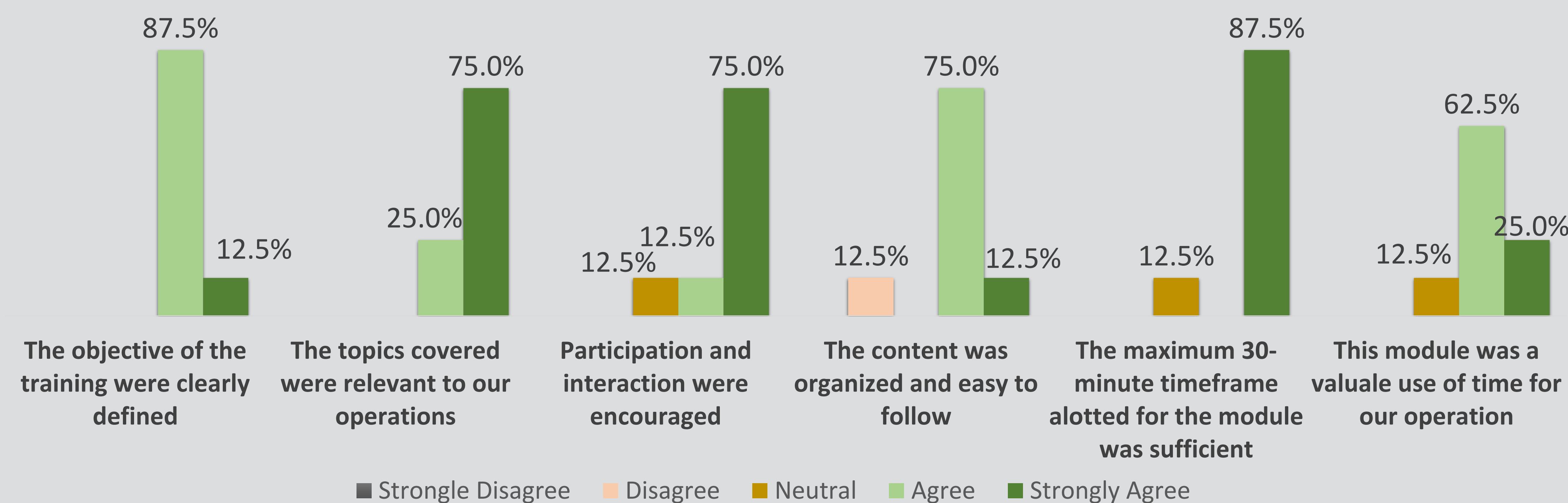


Figure: Module evaluation feedback

- **13 FY** are participating in the program, States: NE, SD, CO, ID, UT, OK & WY
- **7 FY** has started providing training
- Total contact hours: **1,342 hrs**
- **420 employee** has got at least 1 training
- The participating feedyards has **>2200** employee
- The number of cattle on the feedlots ranges from **6,000 to 390,000**

Discussion

- High need of innovative and sustainable preventive measure to limit the high rate and counts of injuries and illnesses.
- A significant concentration of cattle feedlots in the central states and positioning of CS-CASH at UNMC with multiple projects impacting health and safety.
- Feedyard 15 is a first of its kind of project developing safety training modules and evaluating the impact of training through time-series analysis.
- This data driven project will create an evidence-based program model which can be widely implemented.
- This ongoing project is supposed to expand the current knowledge of injury characteristics, burden and prevention.

References

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