**Vaccine Storage and Handling Action Plan**

**Situation**

Despite advances in animal health product technology, overall BRD morbidity and mortality in feedlot cattle has remained stagnant. Research shows that less than 30% of producers have a storage site for vaccines and other pharmaceuticals that maintains the correct temperature range. Even fewer have a system to control temperature at chute-side during administration. Improper storage an administration of vaccines and animal health products reduces efficacy of said products. Effective use of vaccines is an important tool in the effort to reduce the need for antibiotic use in cattle.

**Short-term outcome**

Increase the knowledge of producers of the frequency of improper storage conditions.

Increase knowledge of the potential problems created by improper storage.

Increase knowledge of proper cleaning methods for syringes

Increase knowledge of proper administration of parental animal health products

**Indicators of short-term outcomes**

Producers demonstrate increased knowledge of frequency of improper storage condition and problems created by incorrect storage temperature.

Producers demonstrate increased knowledge of proper cleaning methods for syringes

Producers demonstrate increased knowledge of proper administration of parental animal health products

**Medium term outcome**

Producers maintain a thermometer in refrigerators where vaccines are stored and check the reading regularly.

Producers have a storage system for use chute-side to ensure vaccine quality immediately prior to use.

**Medium term indicators**

Percentage of producers that now have and check a thermometer in their refrigerator.

Percentage of producers that report they now have a chute-side storage system for vaccines.

**Long-term outcomes**

Reduced incidence of disease on cow/calf, stocker, and feedlot operations

**Long-term indicators**

Reduced weaned calf death loss

**Supplemental Resources**

<https://www.uaex.edu/publications/pdf/FSA-3124.pdf>

<http://www.vetfolio.com/immunology/vaccine-transport-storage-and-handling>

<https://store.extension.iastate.edu/product/15324>

<https://www.bqa.org/Media/BQA/Docs/nationalmanual.pdf>