

Meeting the Nutritional Needs of Range Beef Cattle

December 2—3, 2019

Tongue River Valley
Community Center

1100 Main
Dayton, WY



Presented by:
University of Wyoming
Extension
Northeast Area



Purpose of Workshop

To improve beef cattle ranchers understanding as to why their rangeland pastures need be the only source of feed energy for their livestock and how they can optimize supplement feed costs so as to maximize profitability.

Beef cattle ranchers will improve their understanding of their animals nutrient needs throughout the production cycle.

They will gain a better appreciation of what nutrients the land furnishes their livestock and at what levels throughout the year.

Ranchers will be able to develop sound nutritional programs for their livestock that has a positive effect on their reproductive performance, weaning weights, and health.



Johnson County

30 Fairgrounds Road

Buffalo, WY 82834

Phone: (307) 684-7522

Website: www.uwyo.edu/ces/county/johnson

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Registration Form for Meeting the Nutritional Needs of Range Beef Cattle

Name(s) _____

Address _____

Telephone _____

Email address _____

Registration Fee: \$75 first person & \$50 each additional person from ranch

Registration Fee covers break refreshments, lunches, and other school costs

Send check payable to Johnson County Extension to Johnson County Extension, 30 Fairgrounds Road, Buffalo, WY 82834 (Please Register by November 27—Workshop limited to 20)

Meeting the Nutritional Needs of Range Beef Cattle

This workshop is to help ranchers appreciate how the land can be the only source of feed energy for their cowherd. They will learn when during the annual cow/calf cycle the greatest amount of high energy-containing feed is required by their cattle; when range forage will satisfy this need; and how to use the cow's ability to store and relinquish fat energy to avoid having to provide an energy supplement. Participants will appreciate the phrase 'you feed the bugs to feed the cow' with regard to not only protein and energy but also for minerals. In addition, they will comprehend how and when to use body condition scoring to assess the nutrient status of their cattle. The Rancher will leave with a good understanding of the annual nutrient needs of their cattle and how to build more precise, less costly supplements that result in better animal performance.

Meeting the Nutritional Needs of Range Beef Cattle will be a highly interactive workshop to provide an exciting and challenging forum in which to learn. This will include in-depth discussions of the topics and opportunity for questions and answers. There will be hands-on activities and exercises to help stimulate learning and understanding of the material.

Each participant will receive a three-ring binder with the presented information, tables to help assess nutrient needs of cows based on their mature weight, and a spreadsheet program to do all the calculations.

Workshop Topics

Monday Dec 2—10:00 a.m. to 5:00 p.m.

Postpartum Interval (PPI) & Length of Breeding Season; Body Condition, Day length at calving, and Nutrition before & after calving effects on the PPI.

Energy and the Net Energy maintenance system; Energy components in feeds and forages; Dry Matter Intake; Energy content of NE WY rangeland forage in relation to Beef cow production needs.

Cow body weight gain or loss and how the rancher can manage it to minimize winter feeding costs.

Tuesday Dec 3—10:00 a.m. to 5:00 p.m.

Protein Components; Degradable Intake Protein and its relationship to Net Energy maintenance; Non-protein nitrogen.

Cow protein needs for the production year; Protein content of NE WY rangeland forage; Methods to assess protein and energy content of forages and feeds; When insufficient how to determine the amount to provide—ration balancing.

Macro- and Micro-Minerals and what the cow needs through the production year; Mineral content of NE WY rangeland forage; Supplement sources and cost comparison.

Instructor

Blaine Horn — University of Wyoming Rangeland Educator for the Northeast Extension Area. Blaine has conducted studies looking at the nutrient content of rangeland forage and how it meets the needs of beef cattle. In addition, he attended a 'Low Cost Cow/calf Program School' taught by the late Dr. Dick Diven of which this workshop is modeled after. He holds a Ph.D. in Rangeland Ecology.

Testimonials from past participants

"I have been able to lower my supplement costs by only giving my cows what they needed, especially with regard to protein, and based on what I learned I'm shortening the breeding period and moving calving date back."

"The information helped us balance diets in a year when we had to feed cows using a combination of hay and cake instead of just hay and resulted in a savings of \$0.25 per cow per day."

"I used the information to help me more closely monitor what ewes and lambs were fed during shed lambing and the condition of our rangeland".

"I'm more cognizant of the possible nutrient shortages through the year in rangeland forage of our area. I thought the workshop was worthwhile and valuable".

For more information contact:

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