

Lesson 3: The Importance of Meeting Nutritional Needs

Name: _____

NUTRIENT RECOMMENDATIONS**Objective:** Identify and recommend a nutrient solution for Brandon's cows.

Read the case study below. Then fill in the table to help identify the problem. In the "Related Facts" column, list both the components of the nutrient and its functions. Write "accept" or "reject" in the third column to indicate the cause of the problem. Then answer the question.

Brandon's family has a cow-calf operation, and he has a few cows of his own as an SAE project. They have a total of one hundred cows, which were bred to calve in March. Recently they were pregnancy checked, and Brandon and his family learned that 40 percent of the cows were not bred. The cows are being fed fescue hay, and all the cows seem to be eating, but they are still extremely thin. Brandon calls the veterinarian, who reviews his health program and takes samples from the animals. The vet says that the cows are healthy. Brandon is concerned and talks to his FFA advisor, extension specialist, and feed dealer. They suggest that the problem could be related to a nutrient deficiency. Brandon needs advice about what to do.

Possible Causes	Related Facts	Accept/Reject Cause
Water deficiency		
Protein deficiency		
Carbohydrate deficiency		
Fat deficiency		

Possible Causes	Related Facts	Accept/Reject Cause
Vitamin deficiency		
Mineral deficiency		
Decision/Recommendation: What is Brandon’s problem? How can the problem be solved?		