

Lesson 4
Nutrition Quiz

1. According to Table 1. list four nutrients that a producer wishing to background must concern themselves with providing.

Energy, protein, vitamins, and minerals

2. What nutrient is the most critical to support adequate rates of gain?

Energy

3. TDN is replacing what two methods of expressing energy requirements?

Net energy of maintenance and net energy of gain

4. At a TDN concentration of 80% what average daily gain would be expected?

2.5 lb/d

5. If a diet is formulated to supply 12.5% crude protein, based on what you learned about the new system of expressing protein requirements, would you be completely sure this diet is fully balanced? (A Yes or a No is sufficient here).

NO

6. What grain or co-product would most likely complement a backgrounding diet that must be based on hay? (realizing that energy is needed)

Corn OR Condensed Distillers Solubles OR Distillers grains, Wet

7. What are the potential concerns with utilizing dry milling co-products?

Excessive amounts of sulfur

8. What are the potential concerns with feeding small grains?

Small grains need to be processed, but processing them too much can lead to acidosis

9. What are the main disadvantages of the substitution method?

1) using a moderate energy feed to substitute a low-energy forage will result in substitution values greater than the intended DMI, and 2) when selecting a protein feed to balance CP, the

energy content of the protein source must be at least as high as the energy content of the energy feedstuff it is substituting. Also, although this method maximizes forage use, it does not guarantee least cost, because the choice of energy or protein feeds determines ultimate cost.

10. What is the expected return on investment from supplementing ionophores in backgrounding diets?

3 to 1