

### Identifying Nutritional Requirements

**Objective:** Identify the nutritional requirements of animals.

**Using University of Missouri Extension Guides or other sources, answer the following questions to identify the nutritional requirements of animals.**

1. A 500-pound medium-framed steer has an ADG of 3.0.
  - a. What is the percent protein?\_\_\_\_\_
  - b. What percent of TDN is needed?\_\_\_\_\_
  - c. How much dry matter is needed?\_\_\_\_\_
2. What are the recommended allowances for a 25 to 45 pound growing swine?
  - a. What is the expected daily gain?\_\_\_\_\_
  - b. How much crude protein is needed?\_\_\_\_\_
  - c. What is the total phosphorus needed?\_\_\_\_\_
  - d. What percent lysine is needed in the diet?\_\_\_\_\_
3. An 800-pound pregnant yearling heifer in the last third of pregnancy has an ADG of 0.9.
  - a. How much protein is required?\_\_\_\_\_
  - b. What is the calcium requirement?\_\_\_\_\_
  - c. How much dry matter should she intake?\_\_\_\_\_
4. What are the nutritional needs of a lactating sow?
  - a. What is the crude protein requirement?\_\_\_\_\_
  - b. How much valine is needed?\_\_\_\_\_
  - c. What is the calcium requirement?\_\_\_\_\_
  - d. What percent lysine is needed?\_\_\_\_\_

5. What are the nutritional requirements of a dry, pregnant, mature cow in the middle third of pregnancy weighing 1000 pounds?
- a. What is the percent protein required? \_\_\_\_\_
  - b. How much calcium is required? \_\_\_\_\_
  - c. What is the dry matter intake? \_\_\_\_\_
  - d. What is the TDN? \_\_\_\_\_