

Using the Langston Feed calculator

Class Exercise Dairy Goat

Log on to www2.luresext.edu

Select the goat in the middle, Go to Nutrient Calculators, Select Producer Version Calculator

1. Calculate the nutrient requirements for a dry, open, mature Alpine Dairy doe with a 34" heartgirth under intensive management.

A. How much does she weigh? _____

B. Requirements for TDN_____ CP_____ Calcium_____ Phos_____ DMI_____

C. Can she meet her nutrient requirements from Orchardgrass hay? _____

2. Calculate her nutrient requirements to gain 3 lbs/month.

A. Requirements for TDN_____ CP_____ Calcium_____ Phos_____ DMI_____

B. Can she do this on Orchardgrass hay? _____ How Much Sweet Feed _____ is required?

3. Calculate her requirements if she is 125 days pregnant with twins.

A. Requirements for TDN_____ CP_____ Calcium_____ Phos_____ DMI_____

B. How much Orchardgrass hay is required?

4. Calculate her requirements if she is in the 4th week of lactation producing 7 lbs of 3.5% fat and 3.2% protein milk and is 4 years old.

A. Requirements for TDN_____ CP_____ Calcium_____ Phos_____ DMI_____

B. Let's calculate how much Dairy feed, 16% and early bloom Alfalfa it will take to feed her. Do not feed more grain than hay so we do not have a rumen upset problem.

Alfalfa hay _____ Dairy feed _____

C. Will this meet her nutrient requirements? What will happen to her bodyweight?

D. How much weight will she lose?

Answers: 1A. 123 lbs B. 1.71 lbs TDN, .19 lbs CP, 3.85 g P, 2.69 g, 2.60 lbs DMI C. Yes, 3.0 lbs Orchardgrass Hay 2A. 1.90 lbs TDN, .24 lbs CP, 4.5 g Ca, 2.90 g P, 3.00 lbs DMI B. No, 1.2 lbs sweet feed 3A. 2.31 lbs TDN, .36 lbs CP, 5.85 g Ca, 4.09 g P, 4.13 lbs DMI B. 4.7 lbs hay, 4A. 3.98 lbs TDN, .81 lbs CP, 10.21 g Ca, 7.14 g P, 5.38 lbs DMI 4B Hay 3.0 lbs, Dairy feed 3.0 lbs. C. No, she will lose weight. D. 2 lbs per month.