

Results For :

Sample ID :

Description : ORCHARD GRASS HAY

	Analysis As Received	Analysis Dry Basis
Moisture, %	8.33	0.00
Dry Matter, %	91.67	100.00
PROTEIN		
Crude Protein, %	17.8	19.5
FIBERS		
Acid Detergent Fiber, %	25.0	27.3
Neutral Detergent Fiber, %	46.5	50.7
NDFD (digestibility) 48 hr, % of NDF		74
IVTDMD (in vitro true digestibility) 48 hr, %	80.6	87.9
ENERGIES		
TDN Est., %	65.5	71.4
Net Energy Lact, MCal/lb	0.6794	0.7411
Net Energy Maint, MCal/lb	0.6994	0.7629
Net Energy Gain, MCal/lb	0.4449	0.4853
QUALITY VALUE		
Relative Feed Value		124
Relative Forage Quality		158
MINERALS		
*Calcium, % Ca	0.40	0.44
*Phosphorus, % P	0.33	0.36
*Potassium, % K	1.94	2.11
*Magnesium, % Mg	0.29	0.32
*Zinc, ppm Zn	29.6	32.3
*Iron, ppm Fe	155	169
*Manganese, ppm Mn	20	22
*Copper, ppm Cu	6.1	6.7
*Sulfur, % S	0.21	0.23
*Sodium, % Na	0.15	0.16
*Molybdenum, ppm Mo	1.64	1.79
Ash, %	7.53	8.21
OTHER ANALYSIS		
*Nitrate, ppm NO ₃ -N		479
Safety Level	Safe	
Fat, %	2.7	2.9
Starch, %	1.0	1.1
Lignin, %	2.33	2.54
Non Fiber Carbohydrates, %	19.3	21.1
Ethanol-Soluble Carbohydrates, %	9.2	10.1
Water-Soluble Carbohydrates, %	10.5	11.5
*-Result By Wet Chemistry		

Crude Protein Guidelines			
Grass Hay		Alfalfa Hay	
Premium	>13	Premium	20-22
Good	9-13	Good	18-20
Fair	5-9	Fair	16-18
Low	<5	Low	<16

Goats need a *minimum* of 7% protein for body maintenance. Protein needs increase with activity, breeding, pregnancy and nursing.

Forage Quality Guidelines			
RFQ (use for grass hay)		RFV (use for alfalfa)	
Premium	≥ 140	Premium	170-185
Good	110-139	Good	150-170
Fair	90-109	Fair	130-150
Low	≤90	Low	≤ 130

Calcium to Phosphorus ratio should be 2:1 to 1:1.