



CUMBERLAND VALLEY ANALYTICAL SERVICES

Laboratory services for agriculture ... from the field to the feed bunk.

Farm: HUBKA FARMS
Desc: 171E31A ALFALFA
Submitter: HUBKA, CALE
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Copies to: WHITTLE, CHRIS

Lab ID: 22920 032
Sampled: 10/09/2017
Arrived: 10/10/2017
Completed: 10/11/2017
Reported: 10/17/2017

171E31A ALFALFA

SAMPLE INFORMATION

Lab ID: 22920 032 Version: 2.0
Crop Year: 2017 Series:
Feed Type: LEGUME FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 9.8
Dry Matter 90.2

PROTEINS

	% SP	% CP	% DM
Crude Protein			16.4
Adjusted Protein			
Soluble Protein		50.7	8.3
Ammonia (CPE)			
ADF Protein (ADICP)		7.0	1.14
NDF Protein (NDICP)		7.3	1.20
NDR Protein (NDRCP)			
Rumen Degr. Protein		75.4	12.4
Rumen Deg. CP (Strep.G)			

FIBER

	%NDFom	NDFom	% NDF	% DM
		%DM		
ADF			78.2	28.4
aNDF		35.2		36.3
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			20.6	7.49
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	40.9	14.4	39.6	14.4
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	46.9	16.5	45.5	16.5
NDF Digestibility (240 hr)	49.4	17.4	48.0	17.4
uNDF (30 hr)	59.1	20.8	60.4	21.9
uNDF (120 hr)	53.1	18.7	54.5	19.8
uNDF (240 hr)	50.6	17.8	52.0	18.9

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		24.4	8.8
Water Soluble CHO (Sugar)			
Starch		6.4	2.3
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			0.95
Fatty Acids (%Fat)			34.3
Crude Fat			2.77

MINERALS

Ash (%DM)	9.75
Calcium (%DM)	1.83
Phosphorus (%DM)	0.18
Magnesium (%DM)	0.28
Potassium (%DM)	2.19
Sulfur (%DM)	0.24
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Nitrate Ion (%DM)	
Selenium (PPM)	
Molybdenum (PPM)	

QUALITATIVE

Total VFA (%DM)
Lactic Acid (%DM)
Lactic as % of Total VFA
Acetic Acid (%DM)
Butyric Acid (%DM)
1, 2 Propanediol (%DM)

Soil Contamination Probability	Probable low to none
Nitrate Probability	Probable low nitrate level
NIR Statistical Confidence	Excellent prediction potential

ENERGY & INDEX CALCULATIONS

pH	
TDN (%DM)	62.0
Net Energy Lactation (Mcal/lb)	0.63
Net Energy Maintenance (Mcal/lb)	0.61
Net Energy Gain (Mcal/lb)	0.35
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.65
NDF Dig. Rate (Kd, %HR, uNDF)	
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	171
Relative Feed Quality (RFQ)	158
Milk per Ton (lbs/ton)	2915
Dig. Organic Matter Index (lbs/ton)	1232
Non Fiber Carbohydrates (%DM)	36.0
Non Structural Carbohydrates (%DM)	11.1
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	7.9
Summative Index % (Mass Balance)	
Additional sample information, source and lab pictures	



Values in bold were analyzed by wet chemistry methods.

Definitions and explanation of report terms



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