



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS LTD.
Desc: 17A581 ALFALFA
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 22998 053
Sampled: 10/20/2017
Arrived: 10/23/2017
Completed: 10/25/2017
Reported: 10/25/2017

17A581 ALFALFA

SAMPLE INFORMATION

Lab ID: 22998 053 Version: 1.0
Crop Year: 2017 Series:
Feed Type: LEGUME FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 10.7
Dry Matter 89.3

PROTEINS

	% SP	% CP	% DM
Crude Protein			16.9
Adjusted Protein			
Soluble Protein		53.0	8.9
Ammonia (CPE)			
ADF Protein (ADICP)		6.6	1.11
NDF Protein (NDICP)		7.4	1.25
NDR Protein (NDRCP)			
Rumen Degr. Protein		76.5	12.9
Rumen Deg. CP (Strep.G)			

FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			87.4	35.1
aNDF		39.8		40.2
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			20.9	8.39
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	39.7	15.8	39.4	15.8
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	45.7	18.2	45.3	18.2
NDF Digestibility (240 hr)	48.2	19.2	47.7	19.2
uNDF (30 hr)	60.3	24.0	60.6	24.4
uNDF (120 hr)	54.3	21.6	54.7	22.0
uNDF (240 hr)	51.8	20.6	52.3	21.0

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		32.0	10.9
Water Soluble CHO (Sugar)			
Starch		4.4	1.5
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			1.12
Fatty Acids (%Fat)			36.7
Crude Fat			3.05

MINERALS

Ash (%DM)	7.10
Calcium (%DM)	1.43
Phosphorus (%DM)	0.22
Magnesium (%DM)	0.32
Potassium (%DM)	2.10
Sulfur (%DM)	0.28
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)	62.6
Net Energy Lactation (Mcal/lb)	0.64
Net Energy Maintenance (Mcal/lb)	0.62
Net Energy Gain (Mcal/lb)	0.36
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.71
NDF Dig. Rate (Kd, %HR, uNDF)	7.59
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	142
Relative Feed Quality (RFQ)	138
Milk per Ton (lbs/ton)	2979
Dig. Organic Matter Index (lbs/ton)	1224
Non Fiber Carbohydrates (%DM)	34.1
Non Structural Carbohydrates (%DM)	12.4
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	8.8
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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