



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS
Desc: 201K301 1ST CUT ALFALFA
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 28734 070
Sampled: 06/29/2020
Arrived: 06/30/2020
Completed: 07/01/2020
Reported: 07/01/2020

201K301 1ST CUT ALFALFA

SAMPLE INFORMATION			
Lab ID:	28734 070	Version:	1.0
Crop Year:		Series:	
Feed Type:	LEGUME FORAGE	Cutting#:	1
Package:	BASIC NIR		

NIR ANALYSIS RESULTS	
Moisture	11.8
Dry Matter	88.2

PROTEINS	% SP	% CP	% DM
Crude Protein			16.0
Adjusted Protein			
Soluble Protein		40.7	6.5
Ammonia (CPE)	13.2	5.4	0.86
ADF Protein (ADICP)		7.3	1.17
NDF Protein (NDICP)		11.9	1.91
NDR Protein (NDRCP)			
Rumen Degr. Protein		70.3	11.3
Amino Acid Protein, Total			

FIBER	%NDFom	NDFom %DM	% NDF	% DM
ADF			79.8	30.1
aNDF		37.3		37.7
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			17.5	6.61
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	42.9	16.0	42.5	16.0
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	45.6	17.0	45.1	17.0
NDF Digestibility (240 hr)	47.7	17.8	47.2	17.8
uNDF (12 hr)				
uNDF (30 hr)	57.1	21.3	57.5	21.7
uNDF (120 hr)	54.5	20.3	54.9	20.7
uNDF (240 hr)	52.3	19.5	52.8	19.9

CARBOHYDRATES	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		30.2	11.3
Water Soluble CHO (WSC-Sugar)			12.4
Starch		4.3	1.6
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.45
Fatty Acids, Total			1.34
C16:0			0.32
C18:0			0.06
C18:1			0.03
C18:2			0.26
C18:3			0.45
Unsaturated Fatty Acids (RUFAL)			0.74
Fatty Acids (%Fat)			54.7

MINERALS	
Ash (%DM)	8.35
Calcium (%DM)	1.57
Phosphorus (%DM)	0.17
Magnesium (%DM)	0.30
Potassium (%DM)	2.24
Sulfur (%DM)	0.22
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

QUALITATIVE	
pH	
Total VFA (%DM)	
Lactic Acid (%DM)	
Lactic as % of Total VFA	
Acetic Acid (%DM)	
Butyric Acid (%DM)	
1, 2 Propanediol (%DM)	
Nitrate Ion (%DM)	
Soil Contamination Probability	Probable low to none
Nitrate Probability	Probable low nitrate level
NIR Statistical Confidence	Excellent prediction potential

ENERGY & INDEX CALCULATIONS	
TDN (%DM)	62.4
Net Energy Lactation (Mcal/lb)	0.64
Net Energy Maintenance (Mcal/lb)	0.66
Net Energy Gain (Mcal/lb)	0.39
ME (Mcal/lb)	1.06
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.09
NDF Dig. Rate (Kd, %HR, uNDF)	5.2
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	162
Relative Forage Quality (RFQ)	161
Milk per Ton (lbs/ton)	3025
Dig. Organic Matter Index (lbs/ton)	1240
Non Fiber Carbohydrates (%DM)	37.40
Non Structural Carbohydrates (%DM)	12.9
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

Additional sample information, submitted documents and lab pictures linked to QR code.



Values in bold were analyzed by wet chemistry methods.



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