



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS
Desc: 2010K231 1ST CUT ALFALFA
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 28775 049
Sampled: 07/06/2020
Arrived: 07/09/2020
Completed: 07/10/2020
Reported: 07/10/2020

2010K231 1ST CUT ALFALFA

SAMPLE INFORMATION			
Lab ID:	28775 049	Version:	1.0
Crop Year:	2020	Series:	
Feed Type:	LEGUME FORAGE	Cutting#:	1
Package:	BASIC NIR		

NIR ANALYSIS RESULTS	
Moisture	8.6
Dry Matter	91.4

PROTEINS	% SP	% CP	% DM
Crude Protein			12.5
Adjusted Protein			
Soluble Protein		44.8	5.6
Ammonia (CPE)	16.8	7.5	0.94
ADF Protein (ADICP)		8.7	1.09
NDF Protein (NDICP)		9.9	1.24
NDR Protein (NDRCP)			
Rumen Degr. Protein		72.4	9.1
Amino Acid Protein, Total			

FIBER	%NDFom	NDFom %DM	% NDF	% DM
ADF			72.1	35.2
aNDF		47.3		48.8
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			17.0	8.32
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	41.0	19.4	39.8	19.4
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	43.1	20.4	41.9	20.4
NDF Digestibility (240 hr)	45.0	21.3	43.7	21.3
uNDF (12 hr)				
uNDF (30 hr)	59.0	27.9	60.2	29.4
uNDF (120 hr)	56.9	26.9	58.1	28.4
uNDF (240 hr)	55.0	26.0	56.3	27.5

CARBOHYDRATES	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		18.8	6.0
Water Soluble CHO (WSC-Sugar)			10.1
Starch		10.9	3.4
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.25
Fatty Acids, Total			1.16
C16:0			0.26
C18:0			0.05
C18:1			0.02
C18:2			0.22
C18:3			0.31
Unsaturated Fatty Acids (RUFAL)			0.55
Fatty Acids (%Fat)			51.6

MINERALS	
Ash (%DM)	5.53
Calcium (%DM)	1.11
Phosphorus (%DM)	0.18
Magnesium (%DM)	0.20
Potassium (%DM)	1.65
Sulfur (%DM)	0.20
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	Good prediction potential

ENERGY & INDEX CALCULATIONS	
TDN (%DM)	58.6
Net Energy Lactation (Mcal/lb)	0.60
Net Energy Maintenance (Mcal/lb)	0.59
Net Energy Gain (Mcal/lb)	0.33
ME (Mcal/lb)	0.98
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	3.52
NDF Dig. Rate (Kd, %HR, uNDF)	5.2
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	117
Relative Forage Quality (RFQ)	122
Milk per Ton (lbs/ton)	2618
Dig. Organic Matter Index (lbs/ton)	1216
Non Fiber Carbohydrates (%DM)	31.60
Non Structural Carbohydrates (%DM)	9.3
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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