



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS LTD
Desc: 201A41 1ST CUT MIXED HAY
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 29175 038
Sampled: 09/11/2020
Arrived: 09/15/2020
Completed: 09/16/2020
Reported: 09/16/2020

201A41 1ST CUT MIXED HAY

SAMPLE INFORMATION

Lab ID: 29175 038 Version: 1.0
Crop Year: 2020 Series:
Feed Type: MML FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 11.6
Dry Matter 88.4

PROTEINS

	% SP	% CP	% DM
Crude Protein			13.4
Adjusted Protein		96.5	12.9
Soluble Protein		30.8	4.1
Ammonia (CPE)	24.3	7.5	1.00
ADF Protein (ADICP)		13.5	1.80
NDF Protein (NDICP)		45.3	6.05
NDR Protein (NDRCP)			
Rumen Degr. Protein		65.4	8.7
Amino Acid Protein, Total			

FIBER

	% NDF	% DM
ADF	62.8	41.7
aNDF		66.4
aNDFom		62.8
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	7.91	5.25
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (72 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (12 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES

	% Starch	% NFC	% DM
Ethanol Soluble CHO (ESC-Sugar)		29.4	4.9
Water Soluble CHO (WSC-Sugar)			8.1
Starch	14.1		2.4
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.32
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS

Ash (%DM)	7.13
Calcium (%DM)	0.50
Phosphorus (%DM)	0.23
Magnesium (%DM)	0.22
Potassium (%DM)	2.07
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS

TDN (%DM)	57.1
Net Energy Lactation (Mcal/lb)	0.58
Net Energy Maintenance (Mcal/lb)	0.56
Net Energy Gain (Mcal/lb)	0.30
ME (Mcal/lb)	0.95
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	4.8
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	79
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	16.8
Non Structural Carbohydrates (%DM)	7.3
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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