



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS LTD
Desc: 20141 1ST MIXED HAY
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 29136 043
Sampled: 07/17/2020
Arrived: 09/08/2020
Completed: 09/09/2020
Reported: 09/09/2020

20141 1ST MIXED HAY

SAMPLE INFORMATION

Lab ID: 29136 043 Version: 1.0
Crop Year: 2020 Series:
Feed Type: GRASS FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 9.6
Dry Matter 90.4

PROTEINS	% SP	% CP	% DM
Crude Protein			11.4
Adjusted Protein		98.7	11.3
Soluble Protein		33.5	3.8
Ammonia (CPE)	33.8	11.3	1.29
ADF Protein (ADICP)		11.3	1.29
NDF Protein (NDICP)		33.9	3.86
NDR Protein (NDRCP)			
Rumen Degr. Protein		66.8	7.6
Amino Acid Protein, Total			

FIBER	% NDF	% DM
ADF	60.9	36.6
aNDF		60.0
aNDFom		57.2
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	8.30	4.98
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)		35.1	8.2
Water Soluble CHO (WSC-Sugar)			12.4
Starch		12.0	2.8
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.48
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS

Ash (%DM) 6.54
Calcium (%DM) 0.53
Phosphorus (%DM) 0.20
Magnesium (%DM) 0.20
Potassium (%DM) 1.60
Sulfur (%DM)
Sodium (%DM)
Chloride (%DM)
Iron (PPM)
Manganese (PPM)
Zinc (PPM)
Copper (PPM)
Molybdenum (PPM)

ENERGY & INDEX CALCULATIONS

TDN (%DM) 60.0
Net Energy Lactation (Mcal/lb) 0.61
Net Energy Maintenance (Mcal/lb) 0.62
Net Energy Gain (Mcal/lb) 0.35
ME (Mcal/lb) 1.01
AA Protein as % of Total Protein
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)
NDF Dig. Rate (Kd, %HR, uNDF) 4.7
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 94
Relative Forage Quality (RFQ)
Milk per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton)
Non Fiber Carbohydrates (%DM) 23.40
Non Structural Carbohydrates (%DM) 11.0
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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