



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS LTD
Desc: 181A41 MIXED HAY
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 24508 044
Sampled: 07/12/2018
Arrived: 07/17/2018
Completed: 07/19/2018
Reported: 07/19/2018

181A41 MIXED HAY

SAMPLE INFORMATION

Lab ID: 24508 044 Version: 1.0
Crop Year: 2018 Series:
Feed Type: MIXED FORAGE Cutting#: 1
Package: NIR Wet Minerals

NIR ANALYSIS RESULTS

Moisture 9.0
Dry Matter 91.0

PROTEINS

	% SP	% CP	% DM
Crude Protein			12.4
Adjusted Protein		99.2	12.3
Soluble Protein		42.2	5.2
Ammonia (CPE)	4.8	2.0	0.25
ADF Protein (ADICP)		10.8	1.34
NDF Protein (NDICP)		21.9	2.71
NDR Protein (NDRCP)			
Rumen Degr. Protein		71.1	8.8
Rumen Deg. CP (Strep.G)			

FIBER

	% NDF	% DM
ADF	69.8	39.2
aNDF		56.1
aNDFom		55.3
NDR (NDF w/o sulfite)		
peNDF		
Crude Fiber		
Lignin	11.2	6.30
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (48 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES

	% Starch	% NFC	% DM
Ethanol Soluble CHO (Sugar)		33.4	7.7
Water Soluble CHO (Sugar)			10.4
Starch		9.2	2.1
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			
Fatty Acids (%Fat)			
Crude Fat			2.48

MINERALS

Ash (%DM)	8.58
Calcium (%DM)	0.72
Phosphorus (%DM)	0.19
Magnesium (%DM)	0.21
Potassium (%DM)	2.36
Sulfur (%DM)	
Sodium (%DM)	0.04
Chloride (%DM)	
Iron (PPM)	98
Manganese (PPM)	39
Zinc (PPM)	20
Copper (PPM)	6
Nitrate Ion (%DM)	
Selenium (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS

pH	
TDN (%DM)	58.4
Net Energy Lactation (Mcal/lb)	0.59
Net Energy Maintenance (Mcal/lb)	0.55
Net Energy Gain (Mcal/lb)	0.30
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)	97
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	23.2
Non Structural Carbohydrates (%DM)	9.8
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	
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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