



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS LTD
Desc: 18A516 MIXED HAY
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 24549 013
Sampled: 07/18/2018
Arrived: 07/23/2018
Completed: 07/24/2018
Reported: 07/24/2018

18A516 MIXED HAY

SAMPLE INFORMATION

Lab ID: 24549 013 Version: 1.0
Crop Year: 2018 Series:
Feed Type: MIXED FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 13.7
Dry Matter 86.3

PROTEINS

	% SP	% CP	% DM
Crude Protein			10.8
Adjusted Protein			
Soluble Protein		38.3	4.1
Ammonia (CPE)	17.5	6.7	0.72
ADF Protein (ADICP)		11.3	1.22
NDF Protein (NDICP)		29.7	3.19
NDR Protein (NDRCP)			
Rumen Degr. Protein		69.2	7.4
Rumen Deg. CP (Strep.G)			

FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			66.6	33.1
aNDF		48.2		49.7
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			12.0	5.96
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	50.0	24.1	48.5	24.1
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	59.3	28.6	57.4	28.6
NDF Digestibility (240 hr)	63.9	30.8	61.9	30.8
uNDF (30 hr)	50.0	24.1	51.5	25.6
uNDF (120 hr)	40.7	19.6	42.6	21.1
uNDF (240 hr)	36.1	17.4	38.1	18.9

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		32.5	10.6
Water Soluble CHO (Sugar)			11.6
Starch		8.6	2.8
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			1.34
Fatty Acids (%Fat)			44.2
Crude Fat			3.03

MINERALS

Ash (%DM)	7.20
Calcium (%DM)	1.19
Phosphorus (%DM)	0.07
Magnesium (%DM)	0.31
Potassium (%DM)	1.26
Sulfur (%DM)	0.20
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Nitrate Ion (%DM)	
Selenium (PPM)	
Molybdenum (PPM)	

QUALITATIVE

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

ENERGY & INDEX CALCULATIONS

pH	
TDN (%DM)	63.1
Net Energy Lactation (Mcal/lb)	0.64
Net Energy Maintenance (Mcal/lb)	0.63
Net Energy Gain (Mcal/lb)	0.36
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	3.59
NDF Dig. Rate (Kd, %HR, uNDF)	4.2
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	118
Relative Forage Quality (RFQ)	124
Milk per Ton (lbs/ton)	2950
Dig. Organic Matter Index (lbs/ton)	1161
Non Fiber Carbohydrates (%DM)	32.5
Non Structural Carbohydrates (%DM)	13.4
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	7.9
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



Powered by Cumberland Valley Analytical Services, Inc.



4999 Zane A. Miller Drive, Waynesboro, PA 17268
www.foragelab.com | mail@foragelab.com | 301-790-1980 | 800-CVAS-LAB

