



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS LTD
Desc: 18B458 ALFALFA/ORCHARD MIX
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 25307 078
Sampled: 11/21/2018
Arrived: 11/24/2018
Completed: 11/26/2018
Reported: 11/26/2018

18B458 ALFALFA/ORCHARD MIX

SAMPLE INFORMATION

Lab ID: 25307 078 Version: 1.0
Crop Year: 2018 Series:
Feed Type: MIXED FORAGE Cutting#: 2
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 13.6
Dry Matter 86.4

PROTEINS

	% SP	% CP	% DM
Crude Protein			16.9
Adjusted Protein			
Soluble Protein		45.7	7.7
Ammonia (CPE)	8.2	3.7	0.63
ADF Protein (ADICP)		7.0	1.19
NDF Protein (NDICP)		15.6	2.64
NDR Protein (NDRCP)			
Rumen Degr. Protein		72.9	12.3
Rumen Deg. CP (Strep.G)			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			70.7	30.8
aNDF		43.2		43.6
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			12.6	5.50
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	54.0	23.3	53.4	23.2
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	62.1	26.8	61.3	26.7
NDF Digestibility (240 hr)	64.6	27.9	63.9	27.9
uNDF (30 hr)	46.0	19.9	46.7	20.3
uNDF (120 hr)	37.9	16.4	38.7	16.8
uNDF (240 hr)	35.4	15.3	36.1	15.7

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		30.2	9.2
Water Soluble CHO (Sugar)			10.8
Starch		2.4	0.7
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			1.28
Fatty Acids (%Fat)			49.2
Crude Fat			2.60

MINERALS

Ash (%DM)	9.04
Calcium (%DM)	1.17
Phosphorus (%DM)	0.27
Magnesium (%DM)	0.24
Potassium (%DM)	2.89
Sulfur (%DM)	0.28
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 Probable low nitrate level
NIR Statistical Confidence Excellent prediction potential

ENERGY & INDEX CALCULATIONS

pH	
TDN (%DM)	63.2
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)	4.43
NDF Dig. Rate (Kd, %HR, uNDF)	4.8
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	139
Relative Forage Quality (RFQ)	148
Milk per Ton (lbs/ton)	3052
Dig. Organic Matter Index (lbs/ton)	1220
Non Fiber Carbohydrates (%DM)	30.50
Non Structural Carbohydrates (%DM)	9.9
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	6.5
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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4999 Zane A. Miller Drive, Waynesboro, PA 17268
www.foragelab.com | mail@foragelab.com | 301-790-1980 | 800-CVAS-LAB

