



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS LTD
Desc: 191241 ALFALFA
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 26608 016
Sampled: 07/11/2019
Arrived: 07/15/2019
Completed: 07/16/2019
Reported: 07/16/2019

191241 ALFALFA

SAMPLE INFORMATION

Lab ID: 26608 016 Version: 1.0
Crop Year: 2019 Series:
Feed Type: LEGUME FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 11.0
Dry Matter 89.0

PROTEINS

	% SP	% CP	% DM
Crude Protein			14.9
Adjusted Protein			
Soluble Protein		32.2	4.8
Ammonia (CPE)			
ADF Protein (ADICP)		9.6	1.43
NDF Protein (NDICP)		22.4	3.34
NDR Protein (NDRCP)			
Rumen Degr. Protein		66.1	9.8
Rumen Deg. CP (Strep.G)			

FIBER

	%NDFom %DM	NDFom %DM	% NDF	% DM
ADF			74.1	38.9
aNDF		51.0		52.6
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			16.6	8.75
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	42.7	21.8	41.4	21.8
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	49.2	25.1	47.7	25.0
NDF Digestibility (240 hr)	51.7	26.4	50.2	26.4
uNDF (30 hr)	57.3	29.2	58.6	30.8
uNDF (120 hr)	50.8	25.9	52.3	27.5
uNDF (240 hr)	48.3	24.6	49.8	26.2

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		12.3	3.2
Water Soluble CHO (Sugar)			9.4
Starch		9.6	2.5
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			1.35
Fatty Acids (%Fat)			59.5
Crude Fat			2.27

MINERALS

Ash (%DM)	7.90
Calcium (%DM)	1.04
Phosphorus (%DM)	0.15
Magnesium (%DM)	0.29
Potassium (%DM)	1.60
Sulfur (%DM)	0.25
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	Good prediction potential

ENERGY & INDEX CALCULATIONS

pH	
TDN (%DM)	57.0
Net Energy Lactation (Mcal/lb)	0.57
Net Energy Maintenance (Mcal/lb)	0.53
Net Energy Gain (Mcal/lb)	0.27
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	3.66
NDF Dig. Rate (Kd, %HR, uNDF)	4.4
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	104
Relative Forage Quality (RFQ)	102
Milk per Ton (lbs/ton)	2390
Dig. Organic Matter Index (lbs/ton)	1091
Non Fiber Carbohydrates (%DM)	25.70
Non Structural Carbohydrates (%DM)	5.7
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	10.9
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



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

