



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: WEAVER FALLS DAIRY
Desc: 1ST HAYLAGE
Submitter: JONES,JOHN
Account: FOUR STATE FEEDS

Copies to:

Lab ID: 21436 032
Sampled: 02/21/2017
Arrived: 02/23/2017
Completed: 02/24/2017
Reported: 02/24/2017

1ST HAYLAGE

SAMPLE INFORMATION

Lab ID: 21436 032 Version: 1.0
Crop Year: 2016 Series:
Feed Type: LEGUME FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 71.4
Dry Matter 28.6

PROTEINS

	% SP	% CP	% DM
Crude Protein			14.3
Adjusted Protein			
Soluble Protein		57.1	8.1
Ammonia (CPE)	23.3	13.3	1.90
ADF Protein (ADICP)		12.4	1.77
NDF Protein (NDICP)		23.9	3.40
NDR Protein (NDRCP)			
Rumen Degr. Protein		78.6	11.2
Rumen Deg. CP (Strep.G)			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			67.6	40.4
aNDF		57.3		59.7
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			12.0	7.16
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	55.8	32.0	53.6	32.0
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	65.3	37.4	62.6	37.4
NDF Digestibility (240 hr)	68.6	39.3	65.9	39.4
uNDF (30 hr)	44.2	25.3	46.4	27.7
uNDF (120 hr)	34.7	19.9	37.4	22.3
uNDF (240 hr)	31.4	18.0	34.1	20.4

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids		35.2	6.7
Ethanol Soluble CHO (Sugar)		15.4	2.9
Water Soluble CHO (Sugar)			
Starch		18.8	3.6
Soluble Fiber		41.9	7.91
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			2.04
Fatty Acids (%Fat)			49.8
Crude Fat			4.10

MINERALS

Ash (%DM)	6.41
Calcium (%DM)	0.73
Phosphorus (%DM)	0.34
Magnesium (%DM)	0.21
Potassium (%DM)	1.86
Sulfur (%DM)	0.22
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Nitrate Ion (%DM)	
Selenium (PPM)	
Molybdenum (PPM)	

QUALITATIVE

Total VFA (%DM)	6.65
Lactic Acid (%DM)	3.98
Lactic as % of Total VFA	60
Acetic Acid (%DM)	2.11
Butyric Acid (%DM)	0.56
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	4.77
TDN (%DM)	60.5
Net Energy Lactation (mcals/lb)	0.62
Net Energy Maintenance (mcals/lb)	0.59
Net Energy Gain (mcals/lb)	0.33
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.29
NDF Dig. Rate (Kd, %HR, uNDF)	5.26
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	89
Relative Feed Quality (RFQ)	119
Milk per Ton (lbs/ton)	2675
Dig. Organic Matter Index (lbs/ton)	377
Non Fiber Carbohydrates (%DM)	18.9
Non Structural Carbohydrates (%DM)	6.5
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	8.5
Summative Index % (Mass Balance)	101.8
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

