



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: PLEASANT VIEW FARMS
Desc: 3 TIE ALFALFA - SEPT '18
Submitter: LIPTON, JAKE
Account: PLEASANT VIEW FARMS, INC.

Copies to: LIPTON, LOUIS

Lab ID: 25638 103
Sampled: 01/21/2019
Arrived: 01/23/2019
Completed: 01/23/2019
Reported: 01/23/2019

3 TIE ALFALFA - SEPT '18

SAMPLE INFORMATION

Lab ID: 25638 103 Version: 1.0
Crop Year: 2018 Series:
Feed Type: LEGUME FORAGE Cutting#: 2
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 12.6
Dry Matter 87.4

PROTEINS

	% SP	% CP	% DM
Crude Protein			21.2
Adjusted Protein			
Soluble Protein		44.7	9.5
Ammonia (CPE)	17.3	7.7	1.64
ADF Protein (ADICP)		5.8	1.22
NDF Protein (NDICP)		7.9	1.68
NDR Protein (NDRCP)			
Rumen Degr. Protein		72.4	15.3
Rumen Deg. CP (Strep.G)			

FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			84.6	33.3
aNDF		38.1		39.3
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			17.1	6.71
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	44.3	16.9	43.1	16.9
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	46.7	17.8	45.3	17.8
NDF Digestibility (240 hr)	48.8	18.6	47.3	18.6
uNDF (30 hr)	55.7	21.2	57.0	22.4
uNDF (120 hr)	53.3	20.3	54.7	21.5
uNDF (240 hr)	51.2	19.5	52.7	20.7

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		24.7	7.5
Water Soluble CHO (Sugar)			9.8
Starch		4.0	1.2
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			1.38
Fatty Acids (%Fat)			73.0
Crude Fat			1.89

MINERALS

Ash (%DM)	9.08
Calcium (%DM)	1.46
Phosphorus (%DM)	0.28
Magnesium (%DM)	0.37
Potassium (%DM)	1.80
Sulfur (%DM)	0.32
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 moderate nitrate level
NIR Statistical Confidence	Excellent prediction potential

ENERGY & INDEX CALCULATIONS

pH	
TDN (%DM)	61.8
Net Energy Lactation (Mcal/lb)	0.62
Net Energy Maintenance (Mcal/lb)	0.60
Net Energy Gain (Mcal/lb)	0.34
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.04
NDF Dig. Rate (Kd, %HR, uNDF)	5.3
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	149
Relative Forage Quality (RFQ)	151
Milk per Ton (lbs/ton)	2804
Dig. Organic Matter Index (lbs/ton)	1198
Non Fiber Carbohydrates (%DM)	30.30
Non Structural Carbohydrates (%DM)	8.7
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	8.6
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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