



# CUMBERLAND VALLEY ANALYTICAL SERVICES

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

**Farm:** PLEASANT VIEW FARMS  
**Desc:** 3RD CUT ALFALFA BALEAGE - SEPT '18  
**Submitter:** LIPTON, JAKE  
**Account:** PLEASANT VIEW FARMS, INC.

**Copies to:** LIPTON, LOUIS

**Lab ID:** 25638 102  
**Sampled:** 01/21/2019  
**Arrived:** 01/23/2019  
**Completed:** 01/23/2019  
**Reported:** 01/23/2019

## 3RD CUT ALFALFA BALEAGE - SEPT '18

### SAMPLE INFORMATION

Lab ID: 25638 102      Version: 1.0  
Crop Year: 2018      Series:  
Feed Type: LEGUME FORAGE      Cutting#: 3  
Package: BASIC NIR

### NIR ANALYSIS RESULTS

Moisture 47.4  
Dry Matter 52.6

### PROTEINS

	% SP	% CP	% DM
Crude Protein			20.3
Adjusted Protein			
Soluble Protein		46.2	9.4
Ammonia (CPE)	10.8	5.0	1.01
ADF Protein (ADICP)		6.5	1.32
NDF Protein (NDICP)		12.4	2.51
NDR Protein (NDRCP)			
Rumen Degr. Protein		73.1	14.9
Rumen Deg. CP (Strep.G)			

### FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			83.0	30.6
aNDF		34.3		36.9
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			15.7	5.77
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	48.7	16.7	45.2	16.7
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	52.5	18.0	48.7	18.0
NDF Digestibility (240 hr)	54.8	18.8	50.9	18.7
uNDF (30 hr)	51.3	17.6	54.8	20.2
uNDF (120 hr)	47.6	16.3	51.3	18.9
uNDF (240 hr)	45.2	15.5	49.1	18.1

### CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids		11.8	3.4
Ethanol Soluble CHO (Sugar)		31.8	9.2
Water Soluble CHO (Sugar)			12.3
Starch		3.0	0.9
Soluble Fiber		69.7	20.2
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			2.31
Fatty Acids (%Fat)			91.3
Crude Fat			2.53

### MINERALS

Ash (%DM)	13.9
Calcium (%DM)	1.25
Phosphorus (%DM)	0.34
Magnesium (%DM)	0.28
Potassium (%DM)	2.48
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)	3.42
Lactic Acid (%DM)	1.37
Lactic as % of Total VFA	41
Acetic Acid (%DM)	1.65
Butyric Acid (%DM)	0.40
1, 2 Propanediol (%DM)	

Soil Contamination Probability      Probable moderate contamination  
Nitrate Probability      Probable low nitrate level  
NIR Statistical Confidence      Good prediction potential

### ENERGY & INDEX CALCULATIONS

pH	5.26
TDN (%DM)	60.2
Net Energy Lactation (Mcal/lb)	0.60
Net Energy Maintenance (Mcal/lb)	0.58
Net Energy Gain (Mcal/lb)	0.32
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	3.99
NDF Dig. Rate (Kd, %HR, uNDF)	5.2
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	164
Relative Forage Quality (RFQ)	153
Milk per Ton (lbs/ton)	2660
Dig. Organic Matter Index (lbs/ton)	693
Non Fiber Carbohydrates (%DM)	29.00
Non Structural Carbohydrates (%DM)	10.1
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	7.5
Summative Index % (Mass Balance)	103.7
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

