



# CUMBERLAND VALLEY ANALYTICAL SERVICES

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

**Farm:** JW  
**Desc:** JW2-52N ALFALFA  
**Submitter:** BROOK, ADEN  
**Account:** AGRI SALES USA, INC.

**Copies to:**

**Lab ID:** 22457 005  
**Sampled:**  
**Arrived:** 07/26/2017  
**Completed:** 07/26/2017  
**Reported:** 07/26/2017

## JW2-52N ALFALFA

### SAMPLE INFORMATION

Lab ID: 22457 005      Version: 1.0  
Crop Year: 2017      Series:  
Feed Type: LEGUME FORAGE      Cutting#: 2  
Package: BASIC NIR

### NIR ANALYSIS RESULTS

Moisture 9.6  
Dry Matter 90.4

### PROTEINS

	% SP	% CP	% DM
Crude Protein			20.8
Adjusted Protein			
Soluble Protein		41.5	8.6
Ammonia (CPE)	14.4	6.0	1.24
ADF Protein (ADICP)		5.8	1.21
NDF Protein (NDICP)		10.6	2.21
NDR Protein (NDRCP)			
Rumen Degr. Protein		70.7	14.7
Rumen Deg. CP (Strep.G)			

### FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			85.4	29.2
aNDF		33.5		34.2
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			17.4	5.96
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	45.9	15.4	45.0	15.4
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	52.8	17.7	51.7	17.7
NDF Digestibility (240 hr)	55.5	18.6	54.5	18.7
uNDF (30 hr)	54.1	18.1	55.1	18.8
uNDF (120 hr)	47.2	15.8	48.3	16.5
uNDF (240 hr)	44.5	14.9	45.5	15.6

### CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		19.4	6.7
Water Soluble CHO (Sugar)			
Starch		7.3	2.5
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			1.28
Fatty Acids (%Fat)			44.0
Crude Fat			2.91

### MINERALS

Ash (%DM)	9.82
Calcium (%DM)	1.66
Phosphorus (%DM)	0.26
Magnesium (%DM)	0.32
Potassium (%DM)	2.53
Sulfur (%DM)	0.30
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)	65.3
Net Energy Lactation (Mcal/lb)	0.66
Net Energy Maintenance (Mcal/lb)	0.66
Net Energy Gain (Mcal/lb)	0.39
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.51
NDF Dig. Rate (Kd, %HR, uNDF)	7.87
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	180
Relative Feed Quality (RFQ)	168
Milk per Ton (lbs/ton)	3145
Dig. Organic Matter Index (lbs/ton)	1289
Non Fiber Carbohydrates (%DM)	34.5
Non Structural Carbohydrates (%DM)	9.2
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



Powered by Cumberland Valley Analytical Services, Inc.



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

