



# CUMBERLAND VALLEY ANALYTICAL SERVICES

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

**Farm:** DEVRY FORAGES  
**Desc:** #804 N.W 1ST  
**Submitter:** CVAS, ANALYSIS  
**Account:** CVAS ANALYSIS

**Copies to:** NEELS, PETE  
DE KOK, MAKAYLA

**Lab ID:** 36286 368  
**Sampled:** 06/19/2025  
**Arrived:** 06/20/2025  
**Completed:** 06/20/2025  
**Reported:** 06/20/2025

## #804 N.W 1ST

### SAMPLE INFORMATION

Lab ID: 36286 368      Version: 1.0  
Crop Year:                      Series:  
Feed Type: LEGUME FORAGE      Cutting#:  
Package: BASIC NIR

### NIR ANALYSIS RESULTS

Moisture 10.4  
Dry Matter 89.6

### PROTEINS

	% SP	% CP	% DM
Crude Protein			19.0
Adjusted Protein			19.0
Soluble Protein		46.3	8.8
Ammonia (CPE)	21.5	9.9	1.89
ADF Protein (ADICP)		6.4	1.21
NDF Protein (NDICP)		9.9	1.88
NDR Protein (NDRCP)			
Rumen Degr. Protein		73.1	13.9
Amino Acid Protein, Total			

### FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			83.7	35.4
aNDF		41.5		42.3
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			17.5	7.39
NDF Digestibility (12 hr)	27.7	11.5	27.4	11.9
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	46.6	19.4	45.6	19.3
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	49.0	20.4	48.0	20.3
NDF Digestibility (240 hr)	51.2	21.3	50.1	21.2
uNDF (12 hr)	72.3	30.0		
uNDF (30 hr)	53.4	22.2	54.4	23.0
uNDF (120 hr)	51.0	21.2	52.0	22.0
uNDF (240 hr)	48.8	20.3	49.9	21.1

### CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		22.0	6.5
Water Soluble CHO (WSC-Sugar)			9.3
Starch		1.3	0.4
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.14
Fatty Acids, Total			1.16
C16:0			0.32
C18:0			0.05
C18:1			0.03
C18:2			0.23
C18:3			0.31
Unsaturated Fatty Acids (RUFAL)			0.57
Fatty Acids (%Fat)			54.2

### MINERALS

Ash (%DM)	9.09
Calcium (%DM)	1.66
Phosphorus (%DM)	0.25
Magnesium (%DM)	0.38
Potassium (%DM)	2.11
Sulfur (%DM)	0.29
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

### QUALITATIVE

pH  
Total VFA (%DM)  
Lactic Acid (%DM)  
Lactic as % of Total VFA  
Acetic Acid (%DM)  
Butyric Acid (%DM)  
1, 2 Propanediol (%DM)  
Nitrate Ion (%DM)  
Nitrate-Nitrogen, ppm

Soil Contamination Probability	Probable low to none
NIR Statistical Confidence	Excellent prediction potential

### ENERGY & INDEX CALCULATIONS

TDN (%DM)	58.8
Net Energy Lactation (Mcal/lb)	0.60
Net Energy Maintenance (Mcal/lb)	0.59
Net Energy Gain (Mcal/lb)	0.33
ME (Mcal/lb)	0.98
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.68
NDF Dig. Rate (Kd, %HR, uNDF)	5.4
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	135
Relative Forage Quality (RFQ)	140
Milk per Ton (lbs/ton)	2764
Beef per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	1232
ROM (Residual Organic Matter)	29.08
NFC (Non-Fiber Carbohydrates)(%DM)	29.4
NSC (Non-Structural Carbohydrates) ESC (%DM)	6.9
NSC (Non-Structural Carbohydrates) WSC (%DM)	9.7
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

Additional sample information, submitted documents and lab pictures linked to QR code



Values in bold were analyzed by wet chemistry methods.

