



# CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**  
Desc: **#700 2ND CUT DRYLAND**  
Submitter: **CVAS, ANALYSIS**  
Account: **CVAS ANALYSIS**

Copies to: **NEELS, PETE**  
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Lab ID: **35077 405**  
Sampled: **07/29/2024**  
Arrived: **07/30/2024**  
Completed: **08/01/2024**  
Reported: **08/01/2024**

## #700 2ND CUT DRYLAND

### SAMPLE INFORMATION

Lab ID: 35077 405      Version: 1.0  
Crop Year:                      Series:  
Feed Type: LEGUME FORAGE      Cutting#:  
Package: BASIC NIR

### NIR ANALYSIS RESULTS

Moisture 13.1  
Dry Matter 86.9

### PROTEINS

	% SP	% CP	% DM
Crude Protein			19.4
Adjusted Protein			19.4
Soluble Protein		41.1	8.0
Ammonia (CPE)	16.6	6.8	1.32
ADF Protein (ADICP)		6.4	1.23
NDF Protein (NDICP)		11.4	2.21
NDR Protein (NDRCP)			
Rumen Degr. Protein		70.6	13.7
Amino Acid Protein, Total			

### FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			81.9	28.1
aNDF		33.8		34.3
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			18.5	6.34
NDF Digestibility (12 hr)	18.6	6.3	18.5	6.6
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	40.7	13.7	40.6	13.9
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	47.2	15.9	46.8	16.0
NDF Digestibility (240 hr)	49.2	16.6	48.8	16.7
uNDF (12 hr)	81.5	27.5		
uNDF (30 hr)	59.4	20.1	59.4	20.4
uNDF (120 hr)	52.8	17.9	53.2	18.2
uNDF (240 hr)	50.8	17.2	51.2	17.5

### CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		19.8	6.9
Water Soluble CHO (WSC-Sugar)			10.2
Starch		1.6	0.6
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.52
Fatty Acids, Total			1.15
C16:0			0.35
C18:0			0.06
C18:1			0.02
C18:2			0.21
C18:3			0.39
Unsaturated Fatty Acids (RUFAL)			0.62
Fatty Acids (%Fat)			45.6

### MINERALS

Ash (%DM)	11.2
Calcium (%DM)	1.99
Phosphorus (%DM)	0.19
Magnesium (%DM)	0.46
Potassium (%DM)	2.50
Sulfur (%DM)	0.34
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

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

### ENERGY & INDEX CALCULATIONS

TDN (%DM)	61.3
Net Energy Lactation (Mcal/lb)	0.63
Net Energy Maintenance (Mcal/lb)	0.64
Net Energy Gain (Mcal/lb)	0.37
ME (Mcal/lb)	1.03
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.05
NDF Dig. Rate (Kd, %HR, uNDF)	4.5
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	182
Relative Forage Quality (RFQ)	169
Milk per Ton (lbs/ton)	2910
Beef per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	1195
ROM (Residual Organic Matter)	33.32
NFC (Non-Fiber Carbohydrates)(%DM)	34.9
NSC (Non-Structural Carbohydrates) ESC (%DM)	7.5
NSC (Non-Structural Carbohydrates) WSC (%DM)	10.8
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.

