



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**
Desc: **1ST CUT ALFALFA WEST HALF**
Submitter: **CVAS, ANALYSIS**
Account: **CVAS ANALYSIS**

Copies to: **PETE NEELS**

Lab ID: **38328 226**
Sampled: **06/29/2026**
Arrived: **06/30/2026**
Completed:
Reported: **07/02/2026**

917-1ST CUT ALFALFA WEST HALF

SAMPLE INFORMATION

Lab ID: 38328 226 Version: 1.0
Feed Type: LEGUME FORAGE Crop Year:
Package: BASIC NIR Cutting#:

NIR ANALYSIS RESULTS

Moisture 13.8
Dry Matter 86.2

PROTEINS

	% SP	% CP	% DM
Crude Protein			21.8
Adjusted Protein			21.8
Soluble Protein		50.3	11.0
Ammonia (CPE)	14.6	7.3	1.60
ADF Protein (ADICP)		6.0	1.30
NDF Protein (NDICP)		11.2	2.44
NDR Protein (NDRCP)			
Rumen Degr. Protein		75.2	16.4
Amino Acid Protein, Total		65.1	14.19
Lysine			
Methionine			
Isoleucine			
Leucine			
Histidine			
Valine			
Arginine			

FIBER	%NDFom	NDFom %DM	% NDF	% DM
ADF			81.0	30.1
aNDF		36.6		37.1
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			18.6	6.92
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	44.7	16.4	44.6	16.6
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	48.8	17.9	48.5	18.0
NDF Digestibility (240 hr)	51.0	18.7	50.7	18.8
uNDF (12 hr)				
uNDF (24 hr)				
uNDF (30 hr)	55.3	20.2	55.4	20.6
uNDF (120 hr)	51.2	18.7	51.5	19.1
uNDF (240 hr)	49.0	17.9	49.3	18.3

CARBOHYDRATES

	% Fat	% Starch	% NFC	% DM
Silage Acids				
ESC, Sugar			25.3	8.1
WSC, Sugar				10.3
Starch			3.3	1.1
Soluble Starch				
Soluble Fiber			58.5	18.8
Starch Dig. (7 hr, 4 mm)				
Crude Fat				2.39
Fatty Acids, Total	56.9			1.36
C16:0				0.37
C18:0				0.06
C18:1				0.04
C18:2				0.26
C18:3				0.45
Unsaturated Fatty Acids				0.75

MINERALS

Ash (%DM) 8.91
Calcium (%DM) 1.45
Phosphorus (%DM) 0.26
Magnesium (%DM) 0.39
Potassium (%DM) 2.66
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)
Propionic Acid, %DM
Butyric Acid (%DM)
1, 2 Propanediol (%DM)
Nitrate Ion (%DM)
Nitrate-Nitrogen, ppm

Soil Contamination Probability Probable low to none
Soil Contamination (%DM) 3.6
NIR Statistical Confidence Good prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM) 61.7
Net Energy Lactation (Mcal/lb) 0.63
Net Energy Maintenance (Mcal/lb) 0.65
Net Energy Gain (Mcal/lb) 0.38
ME (Mcal/lb) 1.04
AA Protein as % of Total Protein 65.1
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) 4.93
NDF Dig. Rate (Kd, %HR, uNDF) 5.1
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 164
Relative Forage Quality (RFQ) 166
Milk per Ton (lbs/ton) 3041
Milk per Ton 2024(lbs/ton)
Beef per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton) 1221
ROM (Residual Organic Matter) 30.22
NFC (Non-Fiber Carbohydrates)(%DM) 32.2
NSC (Non-Structural Carbohydrates) ESC (%DM) 9.2
NSC (Non-Structural Carbohydrates) WSC (%DM) 11.4
DCAD (meq/100gdm)
Summative Index % (Mass Balance) 98.9

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



Values in bold were analyzed by wet chemistry methods.

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