



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**
Desc: **#932 2ND CUT ALFALFA 460X**
Submitter: **CVAS, ANALYSIS**
Account: **CVAS ANALYSIS**

Copies to: **NEELS, PETE**
BOON, LAMBERT

Lab ID: **39373 215**
Sampled: **08/06/2026**
Arrived: **08/07/2026**
Completed: **08/07/2026**
Reported: **08/07/2026**

#932 2ND CUT ALFALFA 460X

SAMPLE INFORMATION

Lab ID: 39373 215 Version: 1.0
Feed Type: LEGUME FORAGE Crop Year:
Package: BASIC NIR Cutting#:

NIR ANALYSIS RESULTS

Moisture 11.8
Dry Matter 88.2

PROTEINS

	% SP	% CP	% DM
Crude Protein			23.6
Adjusted Protein			23.6
Soluble Protein		49.5	11.7
Ammonia (CPE)	15.5	7.7	1.81
ADF Protein (ADICP)		5.1	1.21
NDF Protein (NDICP)		5.9	1.40
NDR Protein (NDRCP)			
Rumen Degr. Protein		74.7	17.6
Amino Acid Protein, Total		67.0	15.81
Lysine			
Methionine			
Isoleucine			
Leucine			
Histidine			
Valine			
Arginine			

FIBER	%NDFom	NDFom %DM	% NDF	% DM
ADF			86.2	30.4
aNDF		33.0		35.2
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			17.4	6.12
NDF Digestibility (12 hr)	35.1	11.6	32.8	11.9
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	50.0	16.5	47.2	16.6
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	57.6	19.0	54.3	19.1
NDF Digestibility (240 hr)	60.0	19.8	56.6	19.9
uNDF (12 hr)	64.9	21.4		
uNDF (24 hr)				
uNDF (30 hr)	50.0	16.5	52.8	18.6
uNDF (120 hr)	42.4	14.0	45.7	16.1
uNDF (240 hr)	40.0	13.2	43.4	15.3

CARBOHYDRATES

	% Fat	% Starch	% NFC	% DM
Silage Acids				
ESC, Sugar			22.1	6.5
WSC, Sugar				7.8
Starch			6.0	1.8
Soluble Starch				
Soluble Fiber			65.0	19.1
Starch Dig. (7 hr, 4 mm)				
Crude Fat				2.04
Fatty Acids, Total	65.2			1.33
C16:0				0.40
C18:0				0.06
C18:1				0.02
C18:2				0.23
C18:3				0.43
Unsaturated Fatty Acids				0.68

MINERALS

Ash (%DM) 11.1
Calcium (%DM) 1.69
Phosphorus (%DM) 0.38
Magnesium (%DM) 0.39
Potassium (%DM) 2.81
Sulfur (%DM) 0.36
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) 7.3
NIR Statistical Confidence Excellent prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM) 60.5
Net Energy Lactation (Mcal/lb) 0.62
Net Energy Maintenance (Mcal/lb) 0.63
Net Energy Gain (Mcal/lb) 0.36
ME (Mcal/lb) 1.02
AA Protein as % of Total Protein 67.0
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) 4.96
NDF Dig. Rate (Kd, %HR, uNDF) 4.7
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 173
Relative Forage Quality (RFQ) 175
Milk per Ton (lbs/ton) 2890
Milk per Ton 2024(lbs/ton)
Beef per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton) 1277
ROM (Residual Organic Matter) 29.61
NFC (Non-Fiber Carbohydrates)(%DM) 29.4
NSC (Non-Structural Carbohydrates) ESC (%DM) 8.3
NSC (Non-Structural Carbohydrates) WSC (%DM) 9.6
DCAD (meq/100gdm)
Summative Index % (Mass Balance) 97.8

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



Values in bold were analyzed by wet chemistry methods.

Cumberland Valley Analytical Services, Inc.



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