



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**
Desc: **#943 4X4 2ND CUT 97X**
Submitter: **CVAS, ANALYSIS**
Account: **CVAS ANALYSIS**
#943 4X4 2ND CUT 97X

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

Lab ID: **39602 097**
Sampled: **09/02/2026**
Arrived: **09/03/2026**
Completed: **09/04/2026**
Reported: **09/04/2026**

SAMPLE INFORMATION

Lab ID: 39602 097 Version: 1.0
Feed Type: LEGUME FORAGE Crop Year:
Package: BASIC NIR Cutting#:

NIR ANALYSIS RESULTS

Moisture 12.6
Dry Matter 87.4

PROTEINS

	% SP	% CP	% DM
Crude Protein			15.4
Adjusted Protein			15.4
Soluble Protein		48.8	7.5
Ammonia (CPE)	15.9	7.7	1.19
ADF Protein (ADICP)		9.2	1.42
NDF Protein (NDICP)		11.0	1.69
NDR Protein (NDRCP)			
Rumen Degr. Protein		74.4	11.4
Amino Acid Protein, Total		67.1	10.31
Lysine			
Methionine			
Isoleucine			
Leucine			
Histidine			
Valine			
Arginine			

FIBER	%NDFom	NDFom %DM	% NDF	% DM
ADF			81.2	36.6
aNDF		44.4		45.1
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			18.5	8.34
NDF Digestibility (12 hr)	16.0	7.1	16.0	7.5
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	38.0	16.9	37.9	17.1
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	40.7	18.1	40.5	18.3
NDF Digestibility (240 hr)	42.5	18.9	42.2	19.0
uNDF (12 hr)	84.0	37.3		
uNDF (24 hr)				
uNDF (30 hr)	62.1	27.6	62.1	28.0
uNDF (120 hr)	59.4	26.4	59.5	26.8
uNDF (240 hr)	57.6	25.6	57.8	26.0

CARBOHYDRATES

	% Fat	% Starch	% NFC	% DM
Silage Acids				
ESC, Sugar			26.1	8.2
WSC, Sugar				10.5
Starch				
Soluble Starch				
Soluble Fiber			64.2	20.0
Starch Dig. (7 hr, 4 mm)				
Crude Fat				2.17
Fatty Acids, Total	48.9			1.06
C16:0				0.29
C18:0				0.05
C18:1				0.04
C18:2				0.21
C18:3				0.27
Unsaturated Fatty Acids				0.52

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM) 7.87
Calcium (%DM) 1.53
Phosphorus (%DM) 0.22
Magnesium (%DM) 0.33
Potassium (%DM) 1.97
Sulfur (%DM) 0.23
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) 1.1
NIR Statistical Confidence Excellent prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM) 57.5
Net Energy Lactation (Mcal/lb) 0.58
Net Energy Maintenance (Mcal/lb) 0.57
Net Energy Gain (Mcal/lb) 0.31
ME (Mcal/lb) 0.96
AA Protein as % of Total Protein 67.1
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) 3.58
NDF Dig. Rate (Kd, %HR, uNDF) 5.0
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 125
Relative Forage Quality (RFQ) 114
Milk per Ton (lbs/ton) 2581
Milk per Ton 2024(lbs/ton)
Beef per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton) 1129
NFC (Non-Fiber Carbohydrates)(%DM) 31.2
NSC (Non-Structural Carbohydrates) ESC (%DM)
NSC (Non-Structural Carbohydrates) WSC (%DM)
DCAD (meq/100gdm)
Summative Index % (Mass Balance) 79.2

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

