



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**
 Desc: **#902 1ST CUT TIMOTHY**
 Submitter: **Devry Forages**
 Account: **Devry Forages**

Copies to:

Lab ID: **39214 034**
 Sampled: **06/28/2026**
 Arrived: **06/30/2026**
 Completed: **07/01/2026**
 Reported: **07/01/2026**

#902 1ST CUT TIMOTHY

SAMPLE INFORMATION

Lab ID: 39214 034 Version: 1.0
 Feed Type: GRASS FORAGE Crop Year:
 Package: BASIC NIR Cutting#:

NIR ANALYSIS RESULTS

Moisture 10.0
 Dry Matter 90.0

PROTEINS

	% SP	% CP	% DM
Crude Protein			14.0
Adjusted Protein			14.0
Soluble Protein		41.3	5.8
Ammonia (CPE)	21.3	8.8	1.23
ADF Protein (ADICP)		6.7	0.94
NDF Protein (NDICP)		18.3	2.56
NDR Protein (NDRCP)			
Rumen Degr. Protein		70.6	9.9
Amino Acid Protein, Total		66.5	9.31
Lysine			
Methionine			
Isoleucine			
Leucine			
Histidine			
Valine			
Arginine			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			63.5	35.7
aNDF		50.9		56.2
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			7.97	4.48
NDF Digestibility (12 hr)	45.3	23.0	41.0	23.5
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	66.5	33.9	60.7	34.1
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	71.6	36.5	65.4	36.8
NDF Digestibility (240 hr)	75.6	38.5	68.8	38.7
uNDF (12 hr)	54.8	27.9		
uNDF (24 hr)				
uNDF (30 hr)	33.5	17.0	39.3	22.1
uNDF (120 hr)	28.4	14.4	34.6	19.5
uNDF (240 hr)	24.4	12.4	31.2	17.5

CARBOHYDRATES

	% Fat	% Starch	% NFC	% DM
Silage Acids				
ESC, Sugar			45.5	9.5
WSC, Sugar				9.8
Starch			11.1	2.3
Soluble Starch				
Soluble Fiber			34.2	7.12
Starch Dig. (7 hr, 4 mm)				
Crude Fat				3.11
Fatty Acids, Total	48.2			1.50
C16:0				0.29
C18:0				0.02
C18:1				0.04
C18:2				0.26
C18:3				0.73
Unsaturated Fatty Acids				1.03

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM) 8.37
 Calcium (%DM) 0.50
 Phosphorus (%DM) 0.29
 Magnesium (%DM) 0.19
 Potassium (%DM) 2.32
 Sulfur (%DM) 0.22
 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) 7.5
 NIR Statistical Confidence Excellent prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM) 61.0
 Net Energy Lactation (Mcal/lb) 0.62
 Net Energy Maintenance (Mcal/lb) 0.63
 Net Energy Gain (Mcal/lb) 0.37
 ME (Mcal/lb) 1.03
 AA Protein as % of Total Protein 66.5
 NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) 4.27
 NDF Dig. Rate (Kd, %HR, uNDF) 5.6
 Starch Dig. Rate (Kd, %HR, Mertens)
 Relative Feed Value (RFV) 101
 Relative Forage Quality (RFQ) 136
 Milk per Ton (lbs/ton) 2968
 Milk per Ton 2024(lbs/ton)
 Beef per Ton (lbs/ton)
 Dig. Organic Matter Index (lbs/ton) 1343
 ROM (Residual Organic Matter) 22.11
 NFC (Non-Fiber Carbohydrates)(%DM) 20.8
 NSC (Non-Structural Carbohydrates) ESC (%DM) 11.8
 NSC (Non-Structural Carbohydrates) WSC (%DM) 12.1
 DCAD (meq/100gdm)
 Summative Index % (Mass Balance) 94.0

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



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