



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**
Desc: **#927 2ND CUT TIMOTHY**
Submitter: **CVAS, ANALYSIS**
Account: **CVAS ANALYSIS**

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

Lab ID: **39373 175**
Sampled: **08/03/2026**
Arrived: **08/04/2026**
Completed: **08/04/2026**
Reported: **08/04/2026**

#927 2ND CUT TIMOTHY

SAMPLE INFORMATION

Lab ID: 39373 175 Version: 1.0
Feed Type: TIMOTHY FORAGE Crop Year:
Package: BASIC NIR Cutting#:

NIR ANALYSIS RESULTS

Moisture 7.1
Dry Matter 92.9

PROTEINS

	% SP	% CP	% DM
Crude Protein			14.7
Adjusted Protein			14.7
Soluble Protein		37.0	5.5
Ammonia (CPE)	14.3	5.3	0.78
ADF Protein (ADICP)		6.8	1.00
NDF Protein (NDICP)		19.7	2.90
NDR Protein (NDRCP)			
Rumen Degr. Protein		68.5	10.1
Amino Acid Protein, Total		69.2	10.19
Lysine			
Methionine			
Isoleucine			
Leucine			
Histidine			
Valine			
Arginine			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			65.4	36.1
aNDF		49.5		55.2
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			6.87	3.79
NDF Digestibility (12 hr)	53.8	26.6	48.3	27.1
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	69.5	34.4	62.7	34.6
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	73.2	36.2	66.0	36.4
NDF Digestibility (240 hr)	76.4	37.8	68.8	38.0
uNDF (12 hr)	46.2	22.9		
uNDF (24 hr)				
uNDF (30 hr)	30.5	15.1	37.3	20.6
uNDF (120 hr)	26.8	13.3	34.0	18.8
uNDF (240 hr)	23.6	11.7	31.2	17.2

CARBOHYDRATES

	% Fat	% Starch	% NFC	% DM
Silage Acids				
ESC, Sugar			42.7	8.4
WSC, Sugar			1.2	12.2
Starch			12.3	2.4
Soluble Starch				
Soluble Fiber			36.7	7.19
Starch Dig. (7 hr, 4 mm)				
Crude Fat				3.20
Fatty Acids, Total	42.5			1.36
C16:0				0.34
C18:0				0.04
C18:1				0.04
C18:2				0.23
C18:3				0.62
Unsaturated Fatty Acids				0.89

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM) 10.2
Calcium (%DM) 0.58
Phosphorus (%DM) 0.29
Magnesium (%DM) 0.21
Potassium (%DM) 2.56
Sulfur (%DM) 0.21
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) 7.4
NIR Statistical Confidence Good prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM) 60.8
Net Energy Lactation (Mcal/lb) 0.62
Net Energy Maintenance (Mcal/lb) 0.63
Net Energy Gain (Mcal/lb) 0.37
ME (Mcal/lb) 1.02
AA Protein as % of Total Protein 69.2
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) 4.27
NDF Dig. Rate (Kd, %HR, uNDF) 6.0
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 103
Relative Forage Quality (RFQ) 131
Milk per Ton (lbs/ton) 2917
Milk per Ton 2024(lbs/ton)
Beef per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton) 1388
ROM (Residual Organic Matter) 20.51
NFC (Non-Fiber Carbohydrates)(%DM) 19.6
NSC (Non-Structural Carbohydrates) ESC (%DM) 10.8
NSC (Non-Structural Carbohydrates) WSC (%DM) 14.6
DCAD (meq/100gdm)
Summative Index % (Mass Balance) 97.5

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



Cumberland Valley Analytical Services, Inc.

4999 Zane A. Miller Drive, Waynesboro, PA 17268
www.foragelab.com | mail@foragelab.com | 301-790-1980 | 800-CVAS-LAB

