



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**
Desc: **#914 1ST CUT GRASS**
Submitter: **CVAS, ANALYSIS**
Account: **CVAS ANALYSIS**

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

Lab ID: **38328 310**
Sampled: **07/13/2026**
Arrived: **07/14/2026**
Completed: **07/16/2026**
Reported: **07/16/2026**

#914 1ST CUT GRASS

SAMPLE INFORMATION

Lab ID: 38328 310 Version: 1.0
Feed Type: MML FORAGE Crop Year:
Package: BASIC NIR Cutting#:

NIR ANALYSIS RESULTS

Moisture 10.2
Dry Matter 89.8

PROTEINS

	% SP	% CP	% DM
Crude Protein			12.9
Adjusted Protein			12.9
Soluble Protein	42.4		5.5
Ammonia (CPE)			
ADF Protein (ADICP)		9.7	1.25
NDF Protein (NDICP)		15.1	1.95
NDR Protein (NDRCP)			
Rumen Degr. Protein	71.2		9.2
Amino Acid Protein, Total	60.5		7.81
Lysine			
Methionine			
Isoleucine			
Leucine			
Histidine			
Valine			
Arginine			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			73.9	39.5
aNDF		49.4		53.4
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			11.9	6.37
NDF Digestibility (12 hr)	18.4	9.1	17.0	9.6
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	49.5	24.4	46.4	24.8
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	52.1	25.7	48.8	26.1
NDF Digestibility (240 hr)	54.5	26.9	50.9	27.2
uNDF (12 hr)	81.6	40.3		
uNDF (24 hr)				
uNDF (30 hr)	50.5	25.0	53.7	28.7
uNDF (120 hr)	47.9	23.7	51.2	27.4
uNDF (240 hr)	45.5	22.5	49.1	26.2

CARBOHYDRATES

	% Fat	% Starch	% NFC	% DM
Silage Acids				
ESC, Sugar			29.6	6.6
WSC, Sugar				10.2
Starch			10.8	2.4
Soluble Starch				
Soluble Fiber			39.9	8.91
Starch Dig. (7 hr, 4 mm)				
Crude Fat				2.77
Fatty Acids, Total	35.7			0.99
C16:0				0.31
C18:0				0.05
C18:1				0.05
C18:2				0.15
C18:3				0.14
Unsaturated Fatty Acids				0.34

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM) 10.5
Calcium (%DM) 0.81
Phosphorus (%DM) 0.23
Magnesium (%DM) 0.24
Potassium (%DM) 2.15
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) 5.9
NIR Statistical Confidence Good prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM) 55.8
Net Energy Lactation (Mcal/lb) 0.57
Net Energy Maintenance (Mcal/lb) 0.54
Net Energy Gain (Mcal/lb) 0.28
ME (Mcal/lb) 0.92
AA Protein as % of Total Protein 60.5
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) 3.31
NDF Dig. Rate (Kd, %HR, uNDF) 5.5
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 101
Relative Forage Quality (RFQ) 102
Milk per Ton (lbs/ton) 2240
Milk per Ton 2024(lbs/ton)
Beef per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton) 1159
NFC (Non-Fiber Carbohydrates)(%DM) 22.3
NSC (Non-Structural Carbohydrates) ESC (%DM) 9.0
NSC (Non-Structural Carbohydrates) WSC (%DM) 12.6
DCAD (meq/100gdm)
Summative Index % (Mass Balance) 95.3

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

