



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**
Desc: **#922 1ST CUT GRASS 89X**
Submitter: **CVAS, ANALYSIS**
Account: **CVAS ANALYSIS**

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

Lab ID: **39373 089**
Sampled: **07/21/2026**
Arrived: **07/22/2026**
Completed: **07/23/2026**
Reported: **07/23/2026**

#922 1ST CUT GRASS 89X

SAMPLE INFORMATION

Lab ID: 39373 089 Version: 1.0
Feed Type: MIXED FORAGE Crop Year:
Package: BASIC NIR Cutting#:

NIR ANALYSIS RESULTS

Moisture 8.8
Dry Matter 91.2

PROTEINS

	% SP	% CP	% DM
Crude Protein			10.2
Adjusted Protein			10.2
Soluble Protein		41.3	4.2
Ammonia (CPE)	20.1	8.3	0.85
ADF Protein (ADICP)		9.8	1.00
NDF Protein (NDICP)		18.5	1.89
NDR Protein (NDRCP)			
Rumen Degr. Protein		70.7	7.2
Amino Acid Protein, Total		67.2	6.88
Lysine			
Methionine			
Isoleucine			
Leucine			
Histidine			
Valine			
Arginine			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			69.2	38.2
aNDF		52.5		55.2
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			10.8	5.94
NDF Digestibility (12 hr)	31.6	16.6	30.1	17.1
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	50.0	26.3	47.3	26.1
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	55.5	29.2	52.6	29.0
NDF Digestibility (240 hr)	59.7	31.4	56.7	31.3
uNDF (12 hr)	68.4	35.9		
uNDF (24 hr)				
uNDF (30 hr)	50.0	26.2	52.7	29.0
uNDF (120 hr)	44.5	23.3	47.4	26.1
uNDF (240 hr)	40.3	21.1	43.3	23.9

CARBOHYDRATES

	% Fat	% Starch	% NFC	% DM
Silage Acids				
ESC, Sugar			31.1	7.9
WSC, Sugar				13.2
Starch			8.5	2.2
Soluble Starch				
Soluble Fiber			38.4	9.80
Starch Dig. (7 hr, 4 mm)				
Crude Fat				2.29
Fatty Acids, Total	37.6			0.86
C16:0				0.24
C18:0				0.03
C18:1				0.03
C18:2				0.16
C18:3				0.22
Unsaturated Fatty Acids				0.41

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM) 8.71
Calcium (%DM) 0.67
Phosphorus (%DM) 0.18
Magnesium (%DM) 0.19
Potassium (%DM) 1.99
Sulfur (%DM) 0.18
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) 5.0
NIR Statistical Confidence Excellent prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM) 57.3
Net Energy Lactation (Mcal/lb) 0.58
Net Energy Maintenance (Mcal/lb) 0.56
Net Energy Gain (Mcal/lb) 0.31
ME (Mcal/lb) 0.95
AA Protein as % of Total Protein 67.2
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) 3.22
NDF Dig. Rate (Kd, %HR, uNDF) 4.7
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 100
Relative Forage Quality (RFQ) 109
Milk per Ton (lbs/ton) 2429
Milk per Ton 2024(lbs/ton)
Beef per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton) 1186
ROM (Residual Organic Matter) 24.64
NFC (Non-Fiber Carbohydrates)(%DM) 25.5
NSC (Non-Structural Carbohydrates) ESC (%DM) 10.1
NSC (Non-Structural Carbohydrates) WSC (%DM) 15.4
DCAD (meq/100gdm)
Summative Index % (Mass Balance) 97.5

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

