



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **CLAPPERTON RANCH**
Desc: **ALF/GRASS TOP FIELD ROUND**
Submitter: **TNCA BC DAIRY, WEST FORAGES**
Account: **TNCA BC DAIRY**

Copies to: **PETERS, JENILEE**
MCCAULEY, ANN-MARIE

Lab ID: **39407 124**
Sampled: **07/23/2026**
Arrived: **07/27/2026**
Completed: **07/29/2026**
Reported: **07/29/2026**

ALF/GRASS TOP FIELD ROUND

SAMPLE INFORMATION

Lab ID: 39407 124 Version: 1.0
Feed Type: MIXED FORAGE Crop Year:
Package: NIR Wet Minerals Cutting#:

NIR ANALYSIS RESULTS

Moisture 11.4
Dry Matter 88.6

PROTEINS

	% SP	% CP	% DM
Crude Protein			14.3
Adjusted Protein			14.3
Soluble Protein		41.4	5.9
Ammonia (CPE)	25.9	10.7	1.53
ADF Protein (ADICP)		7.3	1.05
NDF Protein (NDICP)		15.7	2.24
NDR Protein (NDRCP)			
Rumen Degr. Protein		70.7	10.1
Amino Acid Protein, Total		64.7	9.25
Lysine			
Methionine			
Isoleucine			
Leucine			
Histidine			
Valine			
Arginine			

FIBER

	% NDF	% DM
ADF	68.2	34.9
aNDF		51.2
aNDFom		50.4
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	11.3	5.78
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (72 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (12 hr)		
uNDF (24 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES

	% Fat	% Starch	% NFC	% DM
ESC, Sugar			28.3	7.5
WSC, Sugar				10.8
Starch			1.6	0.4
Soluble Starch				
Soluble Fiber				
Starch Dig. (7 hr, 4 mm)				
Crude Fat				2.83
Fatty Acids, Total				
C16:0				
C18:0				
C18:1				
C18:2				
C18:3				
Unsaturated Fatty Acids				

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM) 7.22
Calcium (%DM) 1.18
Phosphorus (%DM) 0.26
Magnesium (%DM) 0.30
Potassium (%DM) 2.24
Sulfur (%DM) 0.25
Sodium (%DM) 0.22
Chloride (%DM)
Iron (PPM) 97
Manganese (PPM) 49
Zinc (PPM) 16
Copper (PPM) 11
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
Soil Contamination (%DM) 1.0
NIR Statistical Confidence

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 64.7
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)
NDF Dig. Rate (Kd, %HR, uNDF) 4.8
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 112
Relative Forage Quality (RFQ)
Milk per Ton (lbs/ton)
Milk per Ton 2024(lbs/ton)
Beef per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton)
NFC (Non-Fiber Carbohydrates)(%DM) 26.7
NSC (Non-Structural Carbohydrates) ESC (%DM) 7.9
NSC (Non-Structural Carbohydrates) WSC (%DM) 11.2
DCAD (meq/100gdm)
Summative Index % (Mass Balance)

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



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