



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **CLAPPERTON RANCH**
Desc: **LOWER FIELD ROUNDS**
Submitter: **TNCA BC DAIRY, WEST FORAGES**
Account: **TNCA BC DAIRY**

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

Lab ID: **39098 103**
Sampled: **06/10/2026**
Arrived: **06/15/2026**
Completed: **06/22/2026**
Reported: **06/22/2026**

LOWER FIELD ROUNDS

SAMPLE INFORMATION

Lab ID: 39098 103 Version: 1.0
Feed Type: MML FORAGE Crop Year:
Package: NIR Wet Minerals Cutting#:

NIR ANALYSIS RESULTS

Moisture 14.5
Dry Matter 85.5

PROTEINS

	% SP	% CP	% DM
Crude Protein			15.6
Adjusted Protein			15.6
Soluble Protein		53.1	8.3
Ammonia (CPE)	21.1	11.2	1.74
ADF Protein (ADICP)		7.9	1.23
NDF Protein (NDICP)		10.9	1.70
NDR Protein (NDRCP)			
Rumen Degr. Protein		76.5	11.9
Amino Acid Protein, Total		66.7	10.38
Lysine			
Methionine			
Isoleucine			
Leucine			
Histidine			
Valine			
Arginine			

FIBER

	% NDF	% DM
ADF	76.4	36.0
aNDF		47.1
aNDFom		46.3
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	14.3	6.75
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			28.0	8.2
WSC, Sugar				10.5
Starch			2.4	0.7
Soluble Starch				
Soluble Fiber				
Starch Dig. (7 hr, 4 mm)				
Crude Fat				2.10
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) 7.81
Calcium (%DM) 1.45
Phosphorus (%DM) 0.21
Magnesium (%DM) 0.27
Potassium (%DM) 2.21
Sulfur (%DM) 0.21
Sodium (%DM) 0.07
Chloride (%DM)
Iron (PPM) 136
Manganese (PPM) 33
Zinc (PPM) 17
Copper (PPM) 14
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) 2.8
NIR Statistical Confidence

ENERGY & INDEX CALCULATIONS

TDN (%DM) 59.0
Net Energy Lactation (Mcal/lb) 0.60
Net Energy Maintenance (Mcal/lb) 0.60
Net Energy Gain (Mcal/lb) 0.34
ME (Mcal/lb) 0.99
AA Protein as % of Total Protein 66.7
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) 120
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) 29.2
NSC (Non-Structural Carbohydrates) ESC (%DM) 8.9
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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