



# CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **CLAPPERTON RANCH**  
Desc: **TOP FIELD 1ST CUT JUN 1,2025**  
Submitter: **TNCA BC DAIRY, WEST FORAGES**  
Account: **TNCA BC DAIRY**

Copies to: **PETERS, JENILEE**  
**HASSAN, DAIM UL**

Lab ID: **37109 260**  
Sampled: **06/02/2025**  
Arrived: **06/03/2025**  
Completed: **06/05/2025**  
Reported: **06/05/2025**

## TOP FIELD 1ST CUT JUN 1,2025

### SAMPLE INFORMATION

Lab ID: 37109 260      Version: 1.0  
Crop Year:                      Series:  
Feed Type: MMG FORAGE      Cutting#:  
Package: NIR Wet Minerals

### NIR ANALYSIS RESULTS

Moisture 11.5  
Dry Matter 88.5

### PROTEINS

	% SP	% CP	% DM
Crude Protein			11.2
Adjusted Protein			11.2
Soluble Protein		40.4	4.5
Ammonia (CPE)	31.0	12.5	1.40
ADF Protein (ADICP)		8.3	0.93
NDF Protein (NDICP)		17.9	2.00
NDR Protein (NDRCP)			
Rumen Degr. Protein		70.2	7.8
Amino Acid Protein, Total			

### FIBER

	% NDF	% DM
ADF	61.0	33.2
aNDF		54.4
aNDFom		50.1
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	8.06	4.38
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 (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

### CARBOHYDRATES

	% Starch	% NFC	% DM
Ethanol Soluble CHO (ESC-Sugar)		32.5	8.4
Water Soluble CHO (WSC-Sugar)			10.0
Starch	11.8		3.0
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			3.00
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

Values in bold were analyzed by wet chemistry methods.

### MINERALS

Ash (%DM)	7.64
<b>Calcium (%DM)</b>	<b>1.38</b>
<b>Phosphorus (%DM)</b>	<b>0.21</b>
<b>Magnesium (%DM)</b>	<b>0.33</b>
<b>Potassium (%DM)</b>	<b>2.11</b>
Sulfur (%DM)	0.23
<b>Sodium (%DM)</b>	<b>0.13</b>
Chloride (%DM)	
<b>Iron (PPM)</b>	<b>438.00</b>
<b>Manganese (PPM)</b>	<b>61.00</b>
<b>Zinc (PPM)</b>	<b>21.00</b>
<b>Copper (PPM)</b>	<b>14.00</b>
Molybdenum (PPM)	

### QUALITATIVE

pH  
Total VFA (%DM)  
Lactic Acid (%DM)  
Lactic as % of Total VFA  
Acetic Acid (%DM)  
Butyric Acid (%DM)  
1, 2 Propanediol (%DM)  
Nitrate Ion (%DM)  
Nitrate-Nitrogen, ppm

Soil Contamination Probability  
NIR Statistical Confidence

### ENERGY & INDEX CALCULATIONS

Equine TDN (%DM)	51.3
Equine DE (Mcal/lb)	1.03
Net Energy Lactation (Mcal/lb)	0.63
Net Energy Maintenance (Mcal/lb)	0.65
Net Energy Gain (Mcal/lb)	0.39
ME (Mcal/lb)	1.05
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	5.9
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	108
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Beef per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
NFC (Non-Fiber Carbohydrates)(%DM)	25.8
NSC (Non-Structural Carbohydrates) ESC (%DM)	11.4
NSC (Non-Structural Carbohydrates) WSC (%DM)	13.0
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

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



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