



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: CLAPPERTON RANCH
Desc: 3RD CUT - TOP FIELD - SM SQ
Submitter: TNCA BC DAIRY, WEST FORAGES
Account: TNCA BC DAIRY

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Lab ID: 37486 175
Sampled: 08/10/2025
Arrived: 08/12/2025
Completed: 08/15/2025
Reported: 08/15/2025

3RD CUT - TOPFIELD - SM SQ

SAMPLE INFORMATION

Lab ID: 37486 175 Version: 1.0
Crop Year: MMG FORAGE Series:
Feed Type: NIR Wet Minerals Cutting #:
Package:

NIR ANALYSIS RESULTS

Moisture 6.9
Dry Matter 93.1

PROTEINS	% SP	% CP	% DM
Crude Protein			15.8
Adjusted Protein			15.8
Soluble Protein		33.1	5.2
Ammonia (CPE)	18.2	6.0	0.95
ADF Protein (ADICP)		9.8	1.55
NDF Protein (NDICP)		33.6	5.29
NDR Protein (NDRCP)			10.5
Rumen Degr. Protein		66.6	
Amino Acid Protein, Total			

FIBER	% NDF	% DM
ADF	65.2	36.8
aNDF		56.4
aNDFom		53.9
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin		
NDF Digestibility (12 hr)	9.98	5.63
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)		

Ethanol Soluble CHO (ESC-Sugar)	% Starch	% NFC	% DM
Water Soluble CHO (WSC-Sugar)	13.3	2.7	
Starch		7.6	
Soluble Starch	5.8	1.2	
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			
Fatty Acids, Total			
C16:0		3.33	
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)	9.22
Calcium (%DM)	1.08
Phosphorus (%DM)	0.26
Magnesium (%DM)	0.31
Potassium (%DM)	2.24
Sulfur (%DM)	0.30
Sodium (%DM)	0.14
Chloride (%DM)	145.00
Iron (PPM)	56.00
Manganese (PPM)	19.00
Zinc (PPM)	12.00
Copper (PPM)	
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)	49.9
Equine DE (Mcal/lb)	1.00
Net Energy Lactation (Mcal/lb)	0.60
Net Energy Maintenance (Mcal/lb)	0.59
Net Energy Gain (Mcal/lb)	0.33
ME (Mcal/lb)	0.98
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	
Starch Dig. Rate (Kd, %HR, Mertens)	4.6
Relative Feed Value (RFV)	99
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)	
NSC (Non-Structural Carbohydrates) ESC (%DM)	20.6
NSC (Non-Structural Carbohydrates) WSC (%DM)	3.9
DCAD (meq/100gdm)	8.8
Summative Index % (Mass Balance)	

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



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