



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: CLAPPERTON RANCH
Desc: 2NDCUT-LOWER FIELD-SINGLE TOWER
Submitter: TNCA BC DAIRY, WEST FORAGES
Account: TNCA BC DAIRY

Copies to: PETERS, JENILEE
MCCAULEY, ANN-MARIE

Lab ID: 37486 174
Sampled: 08/10/2025
Arrived: 08/12/2025
Completed: 08/15/2025
Reported: 08/15/2025

2NDCUT-LOWER FIELD-SINGLE TOWER

SAMPLE INFORMATION

Lab ID: 37486 174 Version: 1.0
Crop Year: Series:
Feed Type: MIXED FORAGE Cutting#:
Package: NIR Wet Minerals

NIR ANALYSIS RESULTS

Moisture 8.8
Dry Matter 91.2

PROTEINS % SP % CP % DM

Crude Protein 14.7
Adjusted Protein 14.7
Soluble Protein 31.9 4.7
Ammonia (CPE) 21.8 6.9 1.02
ADF Protein (ADICP) 8.9 1.31
NDF Protein (NDICP) 22.2 3.26
NDR Protein (NDRCP)
Rumen Degr. Protein 65.9 9.7
Amino Acid Protein, Total

FIBER % NDF % DM

ADF 71.6 36.9
aNDF 51.6
aNDFom 50.8
NDR (NDF w/o sulfite)
Crude Fiber
Lignin 12.5 6.47
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) 27.1 6.9
Water Soluble CHO (WSC-Sugar) 10.4
Starch 0.5 0.1
Soluble Starch
Soluble Fiber
Starch Dig. (7 hr, 4 mm)
Crude Fat 2.72
Fatty Acids, Total
C16:0
C18:0
C18:1
C18:2
C18:3
Unsaturated Fatty Acids (RUFAL)
Fatty Acids (%Fat)

MINERALS

Ash (%DM) 8.75
Calcium (%DM) 1.19
Phosphorus (%DM) 0.20
Magnesium (%DM) 0.30
Potassium (%DM) 2.07
Sulfur (%DM) 0.27
Sodium (%DM) 0.05
Chloride (%DM)
Iron (PPM) 107.00
Manganese (PPM) 60.00
Zinc (PPM) 16.00
Copper (PPM) 13.00
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) 50.8
Equine DE (Mcal/lb) 1.02
Net Energy Lactation (Mcal/lb) 0.59
Net Energy Maintenance (Mcal/lb) 0.58
Net Energy Gain (Mcal/lb) 0.32
ME (Mcal/lb) 0.97
AA Protein as % of Total Protein
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)
NDF Dig. Rate (Kd, %HR, uNDF) 5.5
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) 25.5
NSC (Non-Structural Carbohydrates) ESC (%DM) 7.0
NSC (Non-Structural Carbohydrates) WSC (%DM) 10.5
DCAD (meq/100gdm)
Summative Index % (Mass Balance)

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



Values in bold were analyzed by wet chemistry methods.



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4999 Zane A. Miller Drive, Waynesboro, PA 17268
www.foragelab.com | mail@foragelab.com | 301-790-1980 | 800-CVAS-LAB