



# CUMBERLAND VALLEY ANALYTICAL SERVICES

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

**Farm:** CLAPPERTON RANCH  
**Desc:** 2ND CUT TOP FIELD ALFALFA/GRASS  
**Submitter:** SWIFT, MARYLOU  
**Account:** TROUW NUTRITION CANADA-CHILLIWACK

**Copies to:**

**Lab ID:** 30755 052  
**Sampled:** 07/21/2021  
**Arrived:** 07/23/2021  
**Completed:** 07/26/2021  
**Reported:** 07/26/2021

## 2ND CUT TOP FIELD ALFALFA/GRASS

### SAMPLE INFORMATION

Lab ID: 30755 052      Version: 1.0  
Crop Year:                      Series:  
Feed Type: MIXED FORAGE      Cutting#:  
Package: BASIC NIR

### NIR ANALYSIS RESULTS

Moisture 9.0  
Dry Matter 91.0

### PROTEINS

	% SP	% CP	% DM
Crude Protein			16.4
Adjusted Protein			16.4
Soluble Protein		40.0	6.6
Ammonia (CPE)	26.2	10.5	1.72
ADF Protein (ADICP)		7.2	1.18
NDF Protein (NDICP)		13.8	2.26
NDR Protein (NDRCP)			
Rumen Degr. Protein		70.0	11.5
Amino Acid Protein, Total			

### FIBER

	% NDF	% DM
ADF	69.7	31.7
aNDF		45.4
aNDFom		44.7
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	10.9	4.97
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)		27.2	7.6
Water Soluble CHO (WSC-Sugar)			9.7
Starch	4.9		1.4
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.84
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

### MINERALS

Ash (%DM)	9.67
Calcium (%DM)	1.32
Phosphorus (%DM)	0.26
Magnesium (%DM)	0.41
Potassium (%DM)	1.71
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
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

TDN (%DM)	61.4
Net Energy Lactation (Mcal/lb)	0.63
Net Energy Maintenance (Mcal/lb)	0.64
Net Energy Gain (Mcal/lb)	0.38
ME (Mcal/lb)	1.04
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	4.7
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	132
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	27.9
Non Structural Carbohydrates, ESC (%DM)	9.0
Non Structural Carbohydrates, WSC (%DM)	11.1
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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