



# CUMBERLAND VALLEY ANALYTICAL SERVICES

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

**Farm:** HUBKA FARMS LTD  
**Desc:** 202252 2 CUT TIMOTHY  
**Submitter:** HUBKA, CALE  
**Account:** HUBKA FARMS LTD

**Copies to:** WHITTLE, CHRIS

**Lab ID:** 29351 047  
**Sampled:** 09/26/2020  
**Arrived:** 10/13/2020  
**Completed:** 10/14/2020  
**Reported:** 10/14/2020

## 202252 2 CUT TIMOTHY

### SAMPLE INFORMATION

Lab ID: 29351 047      Version: 1.0  
Crop Year: 2020      Series:  
Feed Type: TIMOTHY FORAGE      Cutting#: 2  
Package: BASIC NIR

### NIR ANALYSIS RESULTS

Moisture 11.2  
Dry Matter 88.8

PROTEINS	% SP	% CP	% DM
Crude Protein			13.6
Adjusted Protein			13.6
Soluble Protein		24.4	3.3
Ammonia (CPE)	13.3	3.2	0.44
ADF Protein (ADICP)		9.6	1.30
NDF Protein (NDICP)		40.1	5.44
NDR Protein (NDRCP)			
Rumen Degr. Protein		62.2	8.5
Amino Acid Protein, Total			

### FIBER

	% NDF	% DM
ADF	60.6	40.5
aNDF		66.9
aNDFom		64.7
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	8.19	5.48
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)		36.6	5.8
Water Soluble CHO (WSC-Sugar)			10.0
Starch	8.1		1.3
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.73
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

### MINERALS

Ash (%DM) 6.25  
Calcium (%DM) 0.34  
Phosphorus (%DM) 0.21  
Magnesium (%DM) 0.18  
Potassium (%DM) 1.51  
Sulfur (%DM)  
Sodium (%DM)  
Chloride (%DM)  
Iron (PPM)  
Manganese (PPM)  
Zinc (PPM)  
Copper (PPM)  
Molybdenum (PPM)

### ENERGY & INDEX CALCULATIONS

TDN (%DM) 58.3  
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) 4.6  
Starch Dig. Rate (Kd, %HR, Mertens)  
Relative Feed Value (RFV) 80  
Relative Forage Quality (RFQ)  
Milk per Ton (lbs/ton)  
Dig. Organic Matter Index (lbs/ton)  
Non Fiber Carbohydrates (%DM) 16.0  
Non Structural Carbohydrates (%DM) 7.1  
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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