



# CUMBERLAND VALLEY ANALYTICAL SERVICES

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

**Farm:** HUBKA FARMS LTD  
**Desc:** 201341 1ST CUT MIXED HAY  
**Submitter:** HUBKA, CALE  
**Account:** HUBKA FARMS LTD

**Copies to:** WHITTLE, CHRIS

**Lab ID:** 29175 037  
**Sampled:** 09/11/2020  
**Arrived:** 09/15/2020  
**Completed:** 09/16/2020  
**Reported:** 09/16/2020

## 201341 1ST CUT MIXED HAY

### SAMPLE INFORMATION

Lab ID: 29175 037      Version: 1.0  
Crop Year: 2020      Series:  
Feed Type: MML FORAGE      Cutting#: 1  
Package: BASIC NIR

### NIR ANALYSIS RESULTS

Moisture 12.6  
Dry Matter 87.4

### PROTEINS

	% SP	% CP	% DM
Crude Protein			10.1
Adjusted Protein		98.0	9.9
Soluble Protein		38.6	3.9
Ammonia (CPE)	29.2	11.3	1.14
ADF Protein (ADICP)		12.0	1.21
NDF Protein (NDICP)		23.1	2.34
NDR Protein (NDRCP)			
Rumen Degr. Protein		69.3	7.0
Amino Acid Protein, Total			

### FIBER

	% NDF	% DM
ADF	64.9	37.8
aNDF		58.2
aNDFom		56.4
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	10.6	6.18
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)		31.3	8.0
Water Soluble CHO (WSC-Sugar)			11.9
Starch		12.5	3.2
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.50
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

### MINERALS

Ash (%DM)	5.99
Calcium (%DM)	0.65
Phosphorus (%DM)	0.19
Magnesium (%DM)	0.19
Potassium (%DM)	1.24
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

### ENERGY & INDEX CALCULATIONS

TDN (%DM)	58.8
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)	3.7
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	95
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	25.6
Non Structural Carbohydrates (%DM)	11.2
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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