



# CUMBERLAND VALLEY ANALYTICAL SERVICES

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

**Farm:** HFL  
**Desc:** 181K131 MIXED HAY  
**Submitter:** HUBKA, CALE  
**Account:** HUBKA FARMS LTD

**Copies to:** WHITTLE, CHRIS

**Lab ID:** 24508 051  
**Sampled:** 07/12/2018  
**Arrived:** 07/17/2018  
**Completed:** 07/19/2018  
**Reported:** 07/19/2018

## 181K131 MIXED HAY

### SAMPLE INFORMATION

Lab ID: 24508 051      Version: 1.0  
Crop Year: 2018      Series:  
Feed Type: MIXED FORAGE      Cutting#: 1  
Package: NIR Wet Minerals

### NIR ANALYSIS RESULTS

Moisture 11.9  
Dry Matter 88.1

### PROTEINS

	% SP	% CP	% DM
Crude Protein			13.8
Adjusted Protein		99.4	13.7
Soluble Protein		38.2	5.3
Ammonia (CPE)	12.5	4.8	0.66
ADF Protein (ADICP)		10.6	1.46
NDF Protein (NDICP)		20.9	2.88
NDR Protein (NDRCP)			
Rumen Degr. Protein		69.1	9.5
Rumen Deg. CP (Strep.G)			

### FIBER

	% NDF	% DM
ADF	67.7	32.7
aNDF		48.3
aNDFom		47.5
NDR (NDF w/o sulfite)		
peNDF		
Crude Fiber		
Lignin	14.6	7.03
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (48 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

### CARBOHYDRATES

	% Starch	% NFC	% DM
Ethanol Soluble CHO (Sugar)		23.1	7.0
Water Soluble CHO (Sugar)			9.6
Starch		8.3	2.5
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			
Fatty Acids (%Fat)			
Crude Fat			2.89

### MINERALS

Ash (%DM)	7.51
<b>Calcium (%DM)</b>	<b>1.42</b>
<b>Phosphorus (%DM)</b>	<b>0.13</b>
<b>Magnesium (%DM)</b>	<b>0.31</b>
<b>Potassium (%DM)</b>	<b>1.82</b>
Sulfur (%DM)	
<b>Sodium (%DM)</b>	<b>0.04</b>
Chloride (%DM)	
<b>Iron (PPM)</b>	<b>86</b>
<b>Manganese (PPM)</b>	<b>59</b>
<b>Zinc (PPM)</b>	<b>22</b>
<b>Copper (PPM)</b>	<b>5</b>
Nitrate Ion (%DM)	
Selenium (PPM)	
Molybdenum (PPM)	

### ENERGY & INDEX CALCULATIONS

pH	
TDN (%DM)	61.5
Net Energy Lactation (Mcal/lb)	0.62
Net Energy Maintenance (Mcal/lb)	0.60
Net Energy Gain (Mcal/lb)	0.34
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)	122
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	30.4
Non Structural Carbohydrates (%DM)	9.5
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	
Summative Index % (Mass Balance)	
Additional sample information, source and lab pictures	



Values in bold were analyzed by wet chemistry methods.

Definitions and explanation of report terms



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