



# CUMBERLAND VALLEY ANALYTICAL SERVICES

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

**Farm:** HUBKA FARMS LTD  
**Desc:** 181B111 TIMOTHY MIX  
**Submitter:** HUBKA, CALE  
**Account:** HUBKA FARMS LTD

**Copies to:** WHITTLE, CHRIS

**Lab ID:** 25272 046  
**Sampled:** 11/09/2018  
**Arrived:** 11/14/2018  
**Completed:** 11/19/2018  
**Reported:** 11/19/2018

## 181B111 TIMOTHY MIX

### SAMPLE INFORMATION

Lab ID: 25272 046 Version: 1.0  
Crop Year: 2018 Series:  
Feed Type: TIMOTHY FORAGE Cutting#: 1  
Package: NIR Wet Minerals

### NIR ANALYSIS RESULTS

Moisture 13.1  
Dry Matter 86.9

### PROTEINS

	% SP	% CP	% DM
Crude Protein			10.2
Adjusted Protein			
Soluble Protein		32.0	3.3
Ammonia (CPE)	12.0	3.8	0.39
ADF Protein (ADICP)		7.1	0.72
NDF Protein (NDICP)		21.5	2.19
NDR Protein (NDRCP)			
Rumen Degr. Protein		66.0	6.7
Rumen Deg. CP (Strep.G)			

### FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			64.1	29.8
aNDF		45.5		46.4
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			5.17	2.40
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	62.9	28.6	61.6	28.6
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	68.6	31.2	67.3	31.3
NDF Digestibility (240 hr)	71.7	32.6	70.2	32.6
uNDF (30 hr)	37.1	16.9	38.4	17.8
uNDF (120 hr)	31.4	14.3	32.7	15.2
uNDF (240 hr)	28.3	12.9	29.8	13.8

### CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		48.3	15.8
Water Soluble CHO (Sugar)			17.7
Starch		8.7	2.8
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			1.30
Fatty Acids (%Fat)			57.3
Crude Fat			2.27

### MINERALS

Ash (%DM)	10.6
<b>Calcium (%DM)</b>	<b>0.30</b>
<b>Phosphorus (%DM)</b>	<b>0.25</b>
<b>Magnesium (%DM)</b>	<b>0.17</b>
<b>Potassium (%DM)</b>	<b>2.39</b>
Sulfur (%DM)	0.20
<b>Sodium (%DM)</b>	<b>0.02</b>
Chloride (%DM)	
<b>Iron (PPM)</b>	<b>125</b>
<b>Manganese (PPM)</b>	<b>62</b>
<b>Zinc (PPM)</b>	<b>28</b>
<b>Copper (PPM)</b>	<b>7</b>
Nitrate Ion (%DM)	
Selenium (PPM)	
Molybdenum (PPM)	

### QUALITATIVE

Total VFA (%DM)	
Lactic Acid (%DM)	
Lactic as % of Total VFA	
Acetic Acid (%DM)	
Butyric Acid (%DM)	
1, 2 Propanediol (%DM)	
Soil Contamination Probability	Probable low to none
Nitrate Probability	Probable moderate nitrate level
NIR Statistical Confidence	Good prediction potential

### ENERGY & INDEX CALCULATIONS

pH	
TDN (%DM)	65.1
Net Energy Lactation (Mcal/lb)	0.66
Net Energy Maintenance (Mcal/lb)	0.65
Net Energy Gain (Mcal/lb)	0.39
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	3.79
NDF Dig. Rate (Kd, %HR, uNDF)	5.5
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	132
Relative Forage Quality (RFQ)	168
Milk per Ton (lbs/ton)	3053
Dig. Organic Matter Index (lbs/ton)	1245
Non Fiber Carbohydrates (%DM)	32.70
Non Structural Carbohydrates (%DM)	18.6
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	5.8
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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