



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: PLEASANT VIEW FARMS
Desc: 2ND CUTTING TIMOTHY / ORCHARD
Submitter: LIPTON, JAKE
Account: PLEASANT VIEW FARMS, INC.

Copies to: LIPTON, LOUIS

Lab ID: 27184 087
Sampled: 10/04/2019
Arrived: 10/14/2019
Completed: 10/14/2019
Reported: 10/14/2019

2ND CUTTING TIMOTHY / ORCHARD

SAMPLE INFORMATION			
Lab ID:	27184 087	Version:	1.0
Crop Year:	2019	Series:	
Feed Type:	TIMOTHY FORAGE	Cutting#:	2
Package:	BASIC NIR		

NIR ANALYSIS RESULTS	
Moisture	11.5
Dry Matter	88.5

PROTEINS	% SP	% CP	% DM
Crude Protein			12.4
Adjusted Protein			
Soluble Protein		31.0	3.9
Ammonia (CPE)	10.7	3.3	0.41
ADF Protein (ADICP)		9.7	1.20
NDF Protein (NDICP)		32.2	4.00
NDR Protein (NDRCP)			
Rumen Degr. Protein		65.5	8.1

FIBER	%NDFom	NDFom %DM	% NDF	% DM
ADF			61.0	35.4
aNDF		54.0		58.1
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			7.58	4.40
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	63.1	34.1	58.6	34.0
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	68.7	37.1	63.9	37.1
NDF Digestibility (240 hr)	74.0	40.0	68.8	39.9
uNDF (30 hr)	36.9	19.9	41.4	24.0
uNDF (120 hr)	31.3	16.9	36.1	21.0
uNDF (240 hr)	26.0	14.0	31.2	18.1

CARBOHYDRATES	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		36.8	7.8
Water Soluble CHO (WSC-Sugar)			10.4
Starch	8.2		1.7
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			3.47
Crude Fat			1.33
Fatty Acids, Total			0.29
C16:0			0.03
C18:0			0.04
C18:1			0.26
C18:2			0.53
C18:3			0.83
Unsaturated Fatty Acids (RUFAL)			38.3
Fatty Acids (%Fat)			

MINERALS	
Ash (%DM)	8.98
Calcium (%DM)	0.62
Phosphorus (%DM)	0.28
Magnesium (%DM)	0.27
Potassium (%DM)	2.49
Sulfur (%DM)	0.25
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (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)	
Nitrate Ion (%DM)	
Soil Contamination Probability	Probable low to none
Nitrate Probability	Probable low nitrate level
NIR Statistical Confidence	Excellent prediction potential

ENERGY & INDEX CALCULATIONS	
pH	
Equine TDN (%DM)	49.5
Equine DE (Mcal/lb)	0.99
Net Energy Lactation (Mcal/lb)	0.63
Net Energy Maintenance (Mcal/lb)	0.42
Net Energy Gain (Mcal/lb)	0.17
ME (Mcal/lb)	1.1
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	3.91
NDF Dig. Rate (Kd, %HR, uNDF)	5.1
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	98
Relative Forage Quality (RFQ)	157
Milk per Ton (lbs/ton)	2904
Dig. Organic Matter Index (lbs/ton)	1185
Non Fiber Carbohydrates (%DM)	21.10
Non Structural Carbohydrates (%DM)	12.2
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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