Cumberland Valley Analytical Services

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

Farm: PLEASANT VIEW FARMS
Desc: 2ND CUT SM SQ ORCH/TIM 8/18-9/18
Submitter: LIPTON, JAKE
Account: PLEASANT VIEW FARMS, INC.

Copies to: LIPTON, LOUIS

Lab ID: **24946 180**
Sampled: **09/25/2018**
Arrived: **09/27/2018**
Completed: **09/27/2018**
Reported: **09/27/2018**

2ND CUT SM SQ ORCH/TIM 8/18-9/18

SAMPLE INFORMATION			
Lab ID:	24946 180	Version:	1.0
Crop Year:	2018	Series:	
Feed Type:	ORCHARD GRASS	Cutting#:	2
Package:	BASIC NIR		

NIR ANALYSIS RESULTS	
Moisture	13.1
Dry Matter	86.9

PROTEINS	% SP	% CP	% DM
Crude Protein			11.1
Adjusted Protein			
Soluble Protein		31.4	3.5
Ammonia (CPE)	2.0	0.6	0.07
ADF Protein (ADICP)		10.9	1.21
NDF Protein (NDICP)		35.7	3.95
NDR Protein (NDRCP)			
Rumen Degr. Protein		65.7	7.3
Rumen Deg. CP (Strep.G)			

FIBER	%NDFom	NDFom %DM	% NDF	% DM
ADF			60.1	39.0
aNDF		61.7		64.9
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			7.17	4.65
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	56.3	34.7	53.5	34.7
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	66.5	41.0	63.1	41.0
NDF Digestibility (240 hr)	71.5	44.1	68.0	44.1
uNDF (30 hr)	43.7	27.0	46.5	30.2
uNDF (120 hr)	33.5	20.7	36.9	23.9
uNDF (240 hr)	28.5	17.6	32.0	20.8

CARBOHYDRATES	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		30.1	5.0
Water Soluble CHO (Sugar)			10.2
Starch		8.4	1.4
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			1.30
Fatty Acids (%Fat)			41.4
Crude Fat			3.14

Values in bold were analyzed by wet chemistry methods.

Definitions and explanation of report terms

MINERALS	
Ash (%DM)	8.28
Calcium (%DM)	0.50
Phosphorus (%DM)	0.26
Magnesium (%DM)	0.25
Potassium (%DM)	2.47
Sulfur (%DM)	0.23
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
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 low nitrate level
NIR Statistical Confidence	Excellent prediction potential

ENERGY & INDEX CALCULATIONS	
pH	
Equine TDN (%DM)	45.3
Equine DE (mcal/lb)	0.91
Net Energy Lactation (Mcal/lb)	0.61
Net Energy Maintenance (Mcal/lb)	0.34
Net Energy Gain (Mcal/lb)	0.10
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	3.28
NDF Dig. Rate (Kd, %HR, uNDF)	4.4
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	84
Relative Forage Quality (RFQ)	124
Milk per Ton (lbs/ton)	2555
Dig. Organic Matter Index (lbs/ton)	1070
Non Fiber Carbohydrates (%DM)	16.6
Non Structural Carbohydrates (%DM)	6.4
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	8.7
Summative Index % (Mass Balance)	

Additional sample information, source and lab pictures