



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **WEAVER FALLS**
Desc: **TMR**
Submitter: **JONES, JOHN**
Account: **CVAS**

Copies to:

Lab ID: **12345 285**
Sampled: **09/13/2019**
Arrived: **09/16/2019**
Completed: **09/16/2019**
Reported: **09/16/2019**

TMR

SAMPLE INFORMATION

Lab ID:	26993 285	Version:	1.0
Crop Year:	2019	Series:	
Feed Type:	TMR	Cutting#:	
Package:	BASIC NIR		

NIR ANALYSIS RESULTS

Moisture	53.3
Dry Matter	46.7

PROTEINS

	% SP	% CP	% DM
Crude Protein			14.4
Adjusted Protein			14.4
Soluble Protein		37.7	5.4
Ammonia (CPE)	16.2	6.1	0.88
ADF Protein (ADICP)		5.5	0.79
NDF Protein (NDICP)		19.4	2.80
NDR Protein (NDRCP)			
Rumen Degr. Protein			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			60.4	18.9
aNDF				31.2
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			8.99	2.81
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)			55.6	17.4
NDF Digestibility (30 hr)				
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)				
NDF Digestibility (240 hr)			78.2	24.4
uNDF (30 hr)				
uNDF (120 hr)				
uNDF (240 hr)			21.8	6.8

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		1.6	0.7
Water Soluble CHO (WSC-Sugar)			
Starch		67.0	30.1
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)	72.9		
Crude Fat			4.60
Fatty Acids, Total			3.10
C16:0			0.77
C18:0			0.16
C18:1			0.68
C18:2			1.37
C18:3			0.26
Unsaturated Fatty Acids (RUFAL)			2.31
Fatty Acids (%Fat)			67.4

MINERALS

Ash (%DM)	7.64
Calcium (%DM)	0.90
Phosphorus (%DM)	0.34
Magnesium (%DM)	0.31
Potassium (%DM)	1.23
Sulfur (%DM)	0.22
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	
Nitrate Probability	
NIR Statistical Confidence	

ENERGY & INDEX CALCULATIONS

pH	
TDN (%DM)	74.8
Net Energy Lactation (Mcal/lb)	0.78
Net Energy Maintenance (Mcal/lb)	0.80
Net Energy Gain (Mcal/lb)	0.52
ME (Mcal/lb)	2.9
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	
Starch Dig. Rate (Kd, %HR, Mertens)	19.8
Relative Feed Value (RFV)	
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	44.90
Non Structural Carbohydrates (%DM)	30.8
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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