



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: WEAVER FALLS DAIRY
Desc: 6 TMR
Submitter: JONES,JOHN
Account: FOUR STATE FEEDS

Copies to:

Lab ID: 18343 014
Sampled: 02/22/2017
Arrived: 02/24/2017
Completed: 02/25/2017
Reported: 02/25/2017

6 TMR

SAMPLE INFORMATION

Lab ID: 18343 014 Version: 1.0
Crop Year: 2015 Series:
Feed Type: TMR Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 56.0
Dry Matter 44.0

PROTEINS

	% SP	% CP	% DM
Crude Protein			16.8
Adjusted Protein			16.8
Soluble Protein		47.1	7.9
Ammonia (CPE)	15.3	7.2	1.21
ADF Protein (ADICP)		7.9	1.32
NDF Protein (NDICP)		12.9	2.17
NDR Protein (NDRCP)			
Rumen Degr. Protein			
Rumen Deg. CP (Strep.G)			

FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			67.6	21.7
aNDF				32.1
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			13.8	4.42
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)			51.2	16.4
NDF Digestibility (30 hr)				
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)				
NDF Digestibility (240 hr)			65.0	20.8
uNDF (30 hr)				
uNDF (120 hr)				
uNDF (240 hr)			35.0	11.2

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		10.6	4.4
Water Soluble CHO (Sugar)			
Starch		62.0	25.6
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)	84.6		
Fatty Acids, Total			3.84
Unsaturated Fatty Acids (RUFAL)			2.78
Saturated Fatty Acids			1.06
Crude Fat			5.03

MINERALS

Ash (%DM)	6.96
Calcium (%DM)	0.69
Phosphorus (%DM)	0.43
Magnesium (%DM)	0.31
Potassium (%DM)	1.43
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
Nitrate Probability
NIR Statistical Confidence

ENERGY & INDEX CALCULATIONS

pH	
TDN (%DM)	73.3
Net Energy Lactation (mcal/lb)	0.76
Net Energy Maintenance (mcal/lb)	0.78
Net Energy Gain (mcal/lb)	0.50
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	
Starch Dig. Rate (Kd, %HR, Mertens)	28.5
Relative Feed Value (RFV)	
Relative Feed Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	41.3
Non Structural Carbohydrates (%DM)	30.0
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	4.7
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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