



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: WEAVER FALLS DAIRY
Desc: CORN SILAGE
Submitter: JONES,JOHN
Account: FOUR STATE FEEDS

Copies to:

Lab ID: 21393 143
Sampled: 02/21/2017
Arrived: 02/23/2017
Completed: 02/24/2017
Reported: 02/24/2017

CORN SILAGE

SAMPLE INFORMATION

Lab ID: 21393 143 Version: 1.0
Crop Year: 2016 Series:
Feed Type: CORN SILAGE Cutting#:
Package: NIR Wet Minerals

NIR ANALYSIS RESULTS

Moisture 65.8
Dry Matter 34.2

PROTEINS

	% SP	% CP	% DM
Crude Protein			9.8
Adjusted Protein			
Soluble Protein		52.0	5.1
Ammonia (CPE)	20.7	10.8	1.06
ADF Protein (ADICP)		7.8	0.77
NDF Protein (NDICP)		12.0	1.18
NDR Protein (NDRCP)			
Rumen Degr. Protein		76.0	7.5
Rumen Deg. CP (Strep.G)			

FIBER

	% NDF	% DM
ADF	62.2	23.9
aNDF		38.4
aNDFom		37.9
NDR (NDF w/o sulfite)		
peNDF		
Crude Fiber		
Lignin	7.86	3.02
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (48 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		3.8	1.7
Water Soluble CHO (Sugar)			
Starch		66.2	30.3
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			
Fatty Acids (%Fat)			
Crude Fat			3.16

MINERALS

Ash (%DM)	4.03
Calcium (%DM)	0.25
Phosphorus (%DM)	0.26
Magnesium (%DM)	0.15
Potassium (%DM)	1.18
Sulfur (%DM)	0.13
Sodium (%DM)	0.01
Chloride (%DM)	
Iron (PPM)	143
Manganese (PPM)	36
Zinc (PPM)	41
Copper (PPM)	9
Nitrate Ion (%DM)	
Selenium (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS

pH	3.77
TDN (%DM)	73.4
Net Energy Lactation (mcal/lb)	0.75
Schwab/Shaver NEL (Processed)	0.75
Schwab/Shaver NEL (Unprocessed)	0.71
Net Energy Maintenance (mcal/lb)	0.76
Net Energy Gain (mcal/lb)	0.48
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	
Relative Feed Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	45.7
Non Structural Carbohydrates (%DM)	32.0
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	
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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