



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

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

Copies to:

Regression: PA

Lab ID: 21384 339
Sampled: 02/22/2017
Arrived: 02/24/2017
Completed: 02/27/2017
Reported: 03/10/2017

CORN SILAGE

SAMPLE INFORMATION

Lab ID: 21384 339 Series:
Crop Year: 2016 Version: 1.0
Cutting#:
Feed Type: CORN SILAGE

CHEMISTRY ANALYSIS RESULTS

Moisture 61.2
Dry Matter 38.8

PROTEINS

	% SP	% CP	% DM
Crude Protein			8.5
Adjusted Protein			8.5
Soluble Protein	48.8		4.2
Ammonia (CPE)			
ADF Protein (ADICP)			
NDF Protein (NDICP)			
NDR Protein (NDRCP)			
Rumen Degr. Protein		74.4	6.4
Rumen Deg. CP (Strep.G)			

FIBER

	% NDF	% DM
ADF	60.6	23.4
aNDF		38.7
aNDFom		
NDR (NDF w/o sulfite)		
peNDF		
Crude Fiber		
Lignin		
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (48 hr)		
NDF Digestibility (240 hr)		
uNDF (30 hr)		
uNDF (240 hr)		

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)			
Water soluble CHO (Sugar)			
Starch			
Soluble Fiber			
Starch Digestibility (7 hr)			
Fatty Acids, Total (%DM)			
Crude Fat			
Acid Hydrolysis Fat			

Definitions and explanation of report terms



Additional sample information, source and lab pictures



MINERALS

Ash (%DM)	3.08
Calcium (%DM)	0.32
Phosphorus (%DM)	0.27
Magnesium (%DM)	0.18
Potassium (%DM)	0.87
Sulfur (%DM)	
Sodium (%DM)	0.01
Chloride (%DM)	
Iron (PPM)	81
Manganese (PPM)	35
Zinc (PPM)	22
Copper (PPM)	5
Molybdenum (PPM)	
Selenium (PPM)	
Nitrate Ion (%DM)	

FERMENTATION

pH	3.90
Total VFA	
Lactic Acid (%DM)	
Lactic as % of Total VFA	
Acetic Acid (%DM)	
Propionic Acid (%DM)	
Butyric Acid (%DM)	
Isobutyric Acid (%DM)	
1, 2 Propanediol (%DM)	

ENERGY & INDEX CALCULATIONS

TDN (%DM)	71.4
Net Energy Lactation (mcal/lb)	0.75
Schwab/Shaver NEL (Processed)	0.71
Schwab/Shaver NEL (Unprocessed)	0.65
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, Van Amburgh, iNDF)	
Relative Feed Value (RFV)	
Relative Feed Quality (RFQ)	
Milk per Ton (lbs/ton)	3222
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	47.3
Non Structural Carbohydrates (%DM)	35.0
DCAD (meq/100gdm)	



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