



# 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:** OH

**Lab ID:** 21194 181  
**Sampled:** 02/22/2017  
**Arrived:** 02/24/2017  
**Completed:** 02/27/2017  
**Reported:** 03/10/2017

## CORN SILAGE

### SAMPLE INFORMATION

Lab ID: 21194 181 Series:  
Crop Year: Version: 1.0  
Cutting#:  
Feed Type: CORN SILAGE

### CHEMISTRY ANALYSIS RESULTS

Moisture 77.9  
Dry Matter 22.1

### PROTEINS

	% SP	% CP	% DM
Crude Protein			8.7
Adjusted Protein			8.7
Soluble Protein	56.6		4.9
Ammonia (CPE)			
ADF Protein (ADICP)		5.9	0.51
NDF Protein (NDICP)		8.6	0.74
NDR Protein (NDRCP)			
Rumen Degr. Protein		78.3	6.8
Rumen Deg. CP (Strep.G)			

### FIBER

	% NDF	% DM
ADF	68.2	30.9
aNDF		45.3
aNDFom		
NDR (NDF w/o sulfite)		
peNDF		
Crude Fiber		
Lignin	7.86	3.57
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)		2.5	1.0
Water soluble CHO (Sugar)			
Starch		50.5	20.0
Soluble Fiber			
Starch Digestibility (7 hr)			
Fatty Acids, Total (%DM)			
Crude Fat			2.77
Acid Hydrolysis Fat			

Definitions and explanation of report terms



Additional sample information, source and lab pictures



### MINERALS

Ash (%DM)	4.37
Calcium (%DM)	0.22
Phosphorus (%DM)	0.17
Magnesium (%DM)	0.14
Potassium (%DM)	1.36
Sulfur (%DM)	0.21
Sodium (%DM)	0.02
Chloride (%DM)	0.29
Iron (PPM)	119
Manganese (PPM)	19
Zinc (PPM)	18
Copper (PPM)	6
Molybdenum (PPM)	
Selenium (PPM)	
Nitrate Ion (%DM)	

### FERMENTATION

pH	
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)	69.5
Net Energy Lactation (mcal/lb)	0.71
Schwab/Shaver NEL (Processed)	0.73
Schwab/Shaver NEL (Unprocessed)	0.73
Net Energy Maintenance (mcal/lb)	0.72
Net Energy Gain (mcal/lb)	0.45
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)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	39.6
Non Structural Carbohydrates (%DM)	21.0
DCAD (meq/100gdm)	14.3



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4999 Zane A. Miller Drive, Waynesboro, PA 17268

www.foragelab.com | mail@foragelab.com | 301-790-1980 | 800-CVAS-LAB

