



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: WEAVER FALLS
Desc: CORN SILAGE AOC
Submitter: JONES,JOHN
Account: SUPER GRAIN

Copies to:

Lab ID: 18282 085
Sampled: 06/12/2015
Arrived: 06/15/2015
Completed: 06/15/2015
Reported: 07/06/2015

CORN SILAGE AOC

SAMPLE INFORMATION

Lab ID: 18282 085 Version: 1.0
Crop Year: 2014 Series:
Feed Type: CORN SILAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 71.3
Dry Matter 28.7

PROTEINS

	% SP	% CP	% DM
Crude Protein			8.6
Adjusted Protein			
Soluble Protein		61.9	5.3
Ammonia	25.9	16.0	1.37
ADF Protein (ADICP)		11.2	0.96
NDF Protein (NDICP)		14.3	1.22
NDR Protein (NDRCP)			
Rumen Degr. Protein		81.0	6.9
Rumen Deg. CP (Strep.G)			

FIBER

	%NDFom %DM	NDFom %DM	% NDF	% DM
ADF			64.7	29.6
aNDF		45.2		45.7
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			7.70	3.52
NDF Digestibility (12 hr)			29.0	13.2
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	55.7	25.2	55.2	25.3
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	63.0	28.5	62.5	28.6
NDF Digestibility (240 hr)	74.7	33.8	74.1	33.9
uNDF (30 hr)	44.3	20.0	44.8	20.5
uNDF (120 hr)	37.0	16.7	37.5	17.2
uNDF (240 hr)	25.3	11.4	25.9	11.9

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids		24.8	9.8
Ethanol Soluble CHO (Sugar)		1.8	0.7
Water Soluble CHO (Sugar)			
Starch		69.2	27.4
Soluble Fiber		5.9	2.32
Starch Dig. (7 hr, 4 mm)	77.9		
Fatty Acids, Total			2.79
Fatty Acids (%Fat)			75.6
Crude Fat			3.69

MINERALS

Ash (%DM)	3.68
Calcium (%DM)	0.16
Phosphorus (%DM)	0.24
Potassium (%DM)	1.46
Sulfur (%DM)	0.13
Sodium (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Nitrate Ion (%DM)	
Selenium (PPM)	
Molybdenum (PPM)	

QUALITATIVE

Total VFA (%DM)	10.06
Lactic Acid (%DM)	5.61
Lactic as % of Total VFA	57
Acetic Acid (%DM)	4.22
Butyric Acid (%DM)	
1, 2 Propanediol (%DM)	0.30
Titrateable Acidity (meq/100gm)	9.98

Soil Contamination Probability Probable low to none
Nitrate Probability Probable low nitrate level
NIR Statistical Confidence Excellent prediction potential

ENERGY & INDEX CALCULATIONS

pH	3.82
TDN (%DM)	71.4
Net Energy Lactation (mcal/lb)	0.74
Schwab/Shaver NEL (Processed)	0.76
Schwab/Shaver NEL (Unprocessed)	0.76
Net Energy Maintenance (mcal/lb)	0.75
Net Energy Gain (mcal/lb)	0.48
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	3.55
NDF Dig. Rate (Kd, %HR, uNDF)	4.67
Starch Dig. Rate (Kd, %HR, Mertens)	22.9
Relative Feed Value (RFV)	
Relative Feed Quality (RFQ)	
Milk per Ton (lbs/ton)	3250
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	38.3
Non Structural Carbohydrates (%DM)	28.1
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	4.9
Summative Index %	100.1
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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