



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Type: CORN SILAGE
Farm: WEAVER FALLS
Desc: CORN SILAGE TRENCH 3
JONES,JOHN
SUPER GRAIN

Copies to:

Regression: OH

Lab ID: 18195 075
Sampled: 06/01/2015
Arrived: 06/02/2015
Completed: 06/05/2015
Reported: 06/05/2015

CORN SILAGE TRENCH 3

SAMPLE INFORMATION

Lab ID: 18195 075 Series:
Crop Year: 2014 Version: 1.0
Cutting#:
Feed Type: CORN SILAGE

CHEMISTRY ANALYSIS RESULTS

Moisture 58.8
Dry Matter 41.2

PROTEINS

	% SP	% CP	% DM
Crude Protein			8.4
Adjusted Protein			8.4
Soluble Protein	62.2		5.2
Ammonia			
ADF Protein (ADICP)		9.4	0.79
NDF Protein (NDICP)		10.1	0.85
NDR Protein (NDRCP)			
Rumen Degr. Protein		81.1	6.8
Rumen Deg. CP (Strep.G)			

FIBER

	% NDF	% DM
ADF	61.9	22.9
aNDF		37.1
aNDFom		
NDR (NDF w/o sulfite)		
Crude Fiber		
peNDF		
Lignin	7.44	2.76
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)		1.5	0.7
Water soluble CHO (Sugar)			
Starch		77.6	36.0
Soluble Fiber			
Starch Digestibility (7 hr)			
Fatty Acids, Total (%DM)			
Crude Fat			3.57
Acid Hydrolysis Fat			

Definitions and explanation of report terms



Additional sample information, source and lab pictures



MINERALS

Ash (%DM)	5.45
Calcium (%DM)	0.14
Phosphorus (%DM)	0.27
Magnesium (%DM)	0.13
Potassium (%DM)	1.00
Sulfur (%DM)	0.12
Sodium (%DM)	0.01
Chloride (%DM)	0.13
Iron (PPM)	220
Manganese (PPM)	25
Zinc (PPM)	19
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)	
Titrateable Acidity (meq/100gm)	
1, 2 Propanediol (%DM)	

ENERGY & INDEX CALCULATIONS

TDN (%DM)	73.2
Net Energy Lactation (mcal/lb)	0.77
Schwab/Shaver NEL (Processed)	0.71
Schwab/Shaver NEL (Unprocessed)	0.63
Net Energy Maintenance (mcal/lb)	0.79
Net Energy Gain (mcal/lb)	0.51
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)	2920
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	46.4
Non Structural Carbohydrates (%DM)	36.7
DCAD (meq/100gdm)	14.9



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NIR Data Appendix

FIBER	% NDF	%DM
aNDFom		35.7
NDF Digestibility (12 hr)	31.5	11.9
NDF Digestibility (30 hr)	56.1	21.2
NDF Digestibility (120 hr)	68.1	25.7
NDF Digestibility (240 hr)	71.7	27.1
uNDF (30 hr)	43.9	16.6
uNDF (120 hr)	31.9	12.1
uNDF (240 hr)	28.3	10.7

CARBOHYDRATES	
Soluble Fiber (%DM)	4.08
Starch Digestibility (%Starch)	78.0
Fatty Acids (%Fat)	90.2
Fatty Acids, Total (%DM)	3.22

QUALITATIVE	
Total VFA (%DM)	7.88
Lactic Acid (%DM)	4.61
Lactic as % of Total VFA	59
Acetic Acid (%DM)	3.27
Butyric Acid (%DM)	
1, 2 Propanediol (%DM)	1.79
Titrateable Acidity (meq/100g)	7.21
Nitrate Probability	PROBABLE LOW NITRATE LEVEL
Soil contamination Probability	PROBABLE LOW TO NONE
NIR Statistical Confidence	EXCELLENT PREDICTION POTENTIAL
Summative Index (mass balance)	101.0



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