

**Table 1** Corn silage

Sample information			
NIR analysis results			
Moisture	64.6		
Dry matter	35.4		
Proteins	%SP	%CP	%DM
Crude protein	8.4		
Adjusted protein	8.4		
Soluble protein	61.6		5.2
Ammonia (NPN)	28.7	17.7	1.49
ADF protein (ADICP)	9.5		0.80
NDF protein (NDICP)	12.1		1.02
NDR protein (NDRCP)			
Rumen degr. protein	80.8		6.8
Rumen deg. CP (Strep.G)			
Fiber	%NDF	%DM	
ADF	56.4	18.8	
aNDF	33.4		
aNDFom	32.5		
NDR (NDF without sulfite)			
peNDF			
Crude fiber			
Lignin	7.19	2.40	
NDF digestibility (12 hr)	28.4	9.5	
NDF digestibility (24 hr)			
NDF digestibility (30 hr)	61.5	20.5	
NDF digestibility (48 hr)			
NDF digestibility (240 hr)	73.6	24.6	
Indigestible NDF	26.4	8.8	
Carbohydrates	%Starch	%NFC	%DM
Silage acids	17.7		9.4
Ethanol-soluble CHO (sugar)	1.7		0.9
Water-soluble CHO (sugar)			
Starch	74.1		39.4
Soluble fiber	12.2		6.52
Starch digestibility (7 hr, 4 mm)	79		
Fatty acids, total	2.91		
Crude fat	2.98		
Minerals			
Ash (%DM)	3.00		
Calcium (%DM)	0.21		
Phosphorus (%DM)	0.24		
Magnesium (%DM)	0.14		

Minerals (continued)	
Potassium (%DM)	0.95
Sulfur (%DM)	0.12
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Nitrate ion (%DM)	0.00
Selenium (PPM)	
Molybdenum (PPM)	
Qualitative	
<b>pH</b>	<b>3.80</b>
Total VFA (%DM)	9.42
Lactic acid (%DM)	7.00
Lactic as % of total VFA	74
Acetic acid (%DM)	2.46
Butyric acid (%DM)	
1, 2 propanediol (%DM)	0.29
Titrate acidity (meq/100gm)	9.20
Soil contamination probability	Probable low to none
Nitrate probability	
NIR statistical confidence	Excellent prediction potential
Vomitoxin probability	
Corn silage processing score	
Energy and index calculations	
TDN (%DM)	75.8
Net energy lactation (mcal/lb)	0.79
Net energy maintenance (mcal/lb)	0.82
Net energy gain (mcal/lb)	0.54
NDF dig. rate (kd, %HR, Van Amburgh)	4.18
Starch dig. rate (kd, %HR, Mertens)	23.4
Relative feed value (RFV)	
Relative feed quality (RFQ)	
Milk per ton (lbs/ton)	3,646
Dig. organic matter index (lbs/ton)	596
Non fiber carbohydrates (%DM)	53.2
Non structural carbohydrates (%DM)	40.3
DCAD (meq/100gdm)	
Summative index %	101.6