



### SAMPLE INFORMATION

Lab ID:	Version: 1.0
Crop Year:	Series:
Feed Type: TMR	Cutting#:
Package: BASIC NIR	

### NIR ANALYSIS RESULTS

Moisture	66.5
Dry Matter	33.5

PROTEINS	% SP	% CP	% DM
Crude Protein			15.1
Adjusted Protein			15.1
Soluble Protein		41.4	6.3
Ammonia (CPE)	9.6	4.0	0.60
ADF Protein (ADICP)		11.7	1.77
NDF Protein (NDICP)		20.5	3.09
NDR Protein (NDRCP)			
Rumen Degr. Protein			
Amino Acid Protein, Total			

FIBER	%NDFom	NDFom %DM	% NDF	% DM
ADF			77.2	34.1
aNDF				44.2
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			18.3	8.08
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)			32.7	14.4
NDF Digestibility (30 hr)				
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)				
NDF Digestibility (240 hr)			51.9	22.9
uNDF (12 hr)				
uNDF (30 hr)				
uNDF (120 hr)				
uNDF (240 hr)			48.1	21.3

CARBOHYDRATES	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		20.3	6.4
Water Soluble CHO (WSC-Sugar)		1.2	9.3
Starch		47.6	14.9
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)	63.7		
Crude Fat			4.79
Fatty Acids, Total			2.71
C16:0			0.48
C18:0			0.01
C18:1			0.67
C18:2			1.01
C18:3			0.48
Unsaturated Fatty Acids (RUFAL)			2.16
Fatty Acids (%Fat)			56.6

Values in bold were analyzed by wet chemistry methods.

### MINERALS

Ash (%DM)	7.72
Calcium (%DM)	0.39
Phosphorus (%DM)	0.45
Magnesium (%DM)	0.17
Potassium (%DM)	1.41
Sulfur (%DM)	0.21
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

### QUALITATIVE

pH
Total VFA (%DM)
Lactic Acid (%DM)
Lactic as % of Total VFA
Acetic Acid (%DM)
Butyric Acid (%DM)
1, 2 Propanediol (%DM)
Nitrate Ion (%DM)
Nitrate-Nitrogen, ppm

Soil Contamination Probability
NIR Statistical Confidence

### ENERGY & INDEX CALCULATIONS

TDN (%DM)	61.7
Net Energy Lactation (Mcal/kg)	1.39
Net Energy Maintenance (Mcal/kg)	1.43
Net Energy Gain (Mcal/kg)	0.84
ME (Mcal/kg)	2.3
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	
Starch Dig. Rate (Kd, %HR, Mertens)	15.3
Relative Feed Value (RFV)	
Relative Forage Quality (RFQ)	
Milk per Ton (kg/tonne)	
Beef per Ton (kg/tonne)	
Dig. Organic Matter Index (kg/tonne)	
NFC (Non-Fiber Carbohydrates)(%DM)	31.3
NSC (Non-Structural Carbohydrates) ESC (%DM)	21.3
NSC (Non-Structural Carbohydrates) WSC (%DM)	24.2
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

Additional sample information, submitted documents and lab pictures linked to QR code

