Received: 7/1/2020 **Sampled:** 6/29/2020

Rep: John Smith

Corn Silage 2019

Example Comprehensive Nutrition Analysis Report with 12 hr. NDFD

Moisture: 53.26

Dry Matter: 46.74 (LS = 100.00)

ROCK RIVER LABORATORY, INC.
AGRICULTURAL ANALYSIS
920-261-0446

Protein & Amino Acid	%DM	60d	4 yr
Crude Protein	7.28	7.67	7.80
Total Amino Acid	7.20	7.00	6.94
Sol. CP, % of CP	52.12	60.11	53.90
NH3-N CP Equivalent	0.28	0.55	0.72
NH3-N, % of CP	3.91	7.12	9.26
ADICP	0.64	0.67	0.65
NDICP	1.24	1.00	1.08
ADICP, % of CP	8.74	8.79	8.39
Available CP	6.64	6.99	7.15
Nitrate-N			
Non-Protein Nitrogen			

Calculated Amino Acids			
Lysine, % of CP	3.15	2.91	2.84
Methionine, % of CP	1.99	1.83	1.79
Histidine, % of CP	2.32	2.14	2.09

Minerals & Ash			
Ash	4.57	4.69	4.14
Calcium	0.15	0.18	1.31
Phosphorus	0.22	0.22	0.36
Magnesium	0.12	0.14	0.52
Potassium	1.05	0.98	1.37
Sodium			
Sulfur	0.08	0.09	0.13
Chloride			
Aluminum			
Boron			
Copper			
Iron			
Manganese			
Molybdenum			
Zinc			

Carbohydrates	%DM	60d	4 yr
ADF	26.43	22.88	22.65
aNDF	42.91	39.13	38.02
aNDFom	41.37	37.61	36.68
Lignin	5.19	4.20	3.80
Starch	31.83	32.85	34.34
Sugar (ESC)	1.05	1.19	1.79
Sugar (WSC)	4.49	4.04	4.59
Glucose			
Fructose			
Sucrose			
Lactose			
Mannitol			
Total Sugar			
Crude Fiber			

Fermentation Products			
pH	4.12	3.91	4.09
Lactic Acid	1.94	4.38	3.41
Acetic Acid	1.17	2.34	1.59
Butyric Acid	0.00		0.04
Propionic Acid			
Succinic			
Formic			
Ethanol			
1,2 Propanediol			
1 Propanol			
2,3 Butanediol			
2 Butanol			
2 Propanol			
Total Acids			
Total Alcohols			
Fermentation DM Loss	1.22	2.27	2.71

Fat	%DM	60d	4 yr
Ether Extract	1.97	2.59	2.66
Total Fatty Acid	1.26	1.76	1.80
Acid Hydrolysis			
	% of FA		
Myristic (C14:0)	0.75	0.44	0.39
Palmitic (C16:0)	16.91	14.73	14.79
Stearic (C18:0)	2.04	1.83	1.94
Oleic (C18:1 c9)	17.92	20.25	21.21
Linoleic (C18:2 c9,12)	42.24	46.84	48.06
Linolenic (C18:3 c9,12,15)	8.11	7.82	5.75
RUFAL	68.27	74.91	75.02

Nutrient Digestion, % of nutrient			
tNDFD12	11.58	15.95	
tNDFD30	50.18	59.33	56.28
tNDFD48	58.77	68.05	65.15
tNDFD72			
tNDFD120	65.65	70.36	67.50
tNDFD240	69.21	73.11	73.98
tNDFD30om	53.55	62.32	59.40
tNDFD120om	68.32	72.87	70.11
tNDFD240om	71.72	75.50	76.29
sNDFD24	16.11	21.17	22.90
sNDFD30	22.17	26.90	27.66
sNDFD48	39.66	47.06	47.11
uNDF30, % DM	21.38	16.00	16.72
uNDF240, % DM	13.21	10.59	9.99
in situ rumen starchD 0h	26.08	31.29	23.55
in situ rumen starchD 3h	61.15	75.75	63.96
in situ rumen starchD 7h	75.76	84.10	78.42
in situ rumen starchD 16h	90.47	95.12	89.43
in situ rumen starchD 24h	94.08		
in situ RUP 16h			
RUP intest. dig., % RUP			

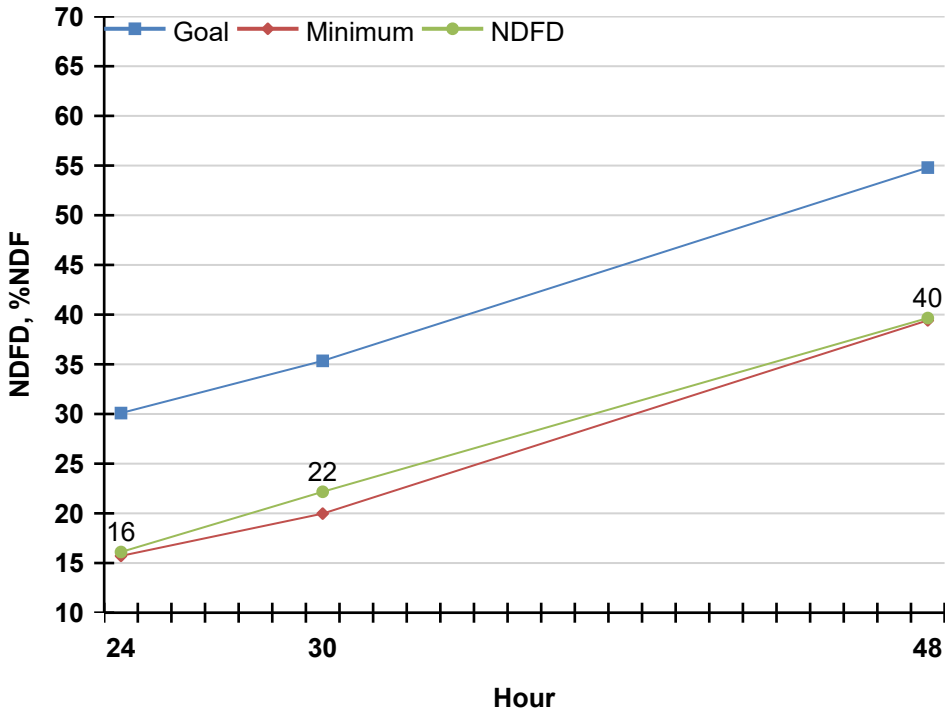
Bold results by wet chemistry

Calculations	%DM	60d	4 yr
Dynamic NDF kd, %/h	3.75	4.29	4.21
Dynamic Starch Kd, %/h	19.79	25.97	22.69
RFV			
RFQ			
TTNDFD, % of NDF	35.16	40.98	41.01
Total Tract Starch Dig			
NFC	44.50	46.93	48.46
DCAD			
Salt			
RDP %CP			

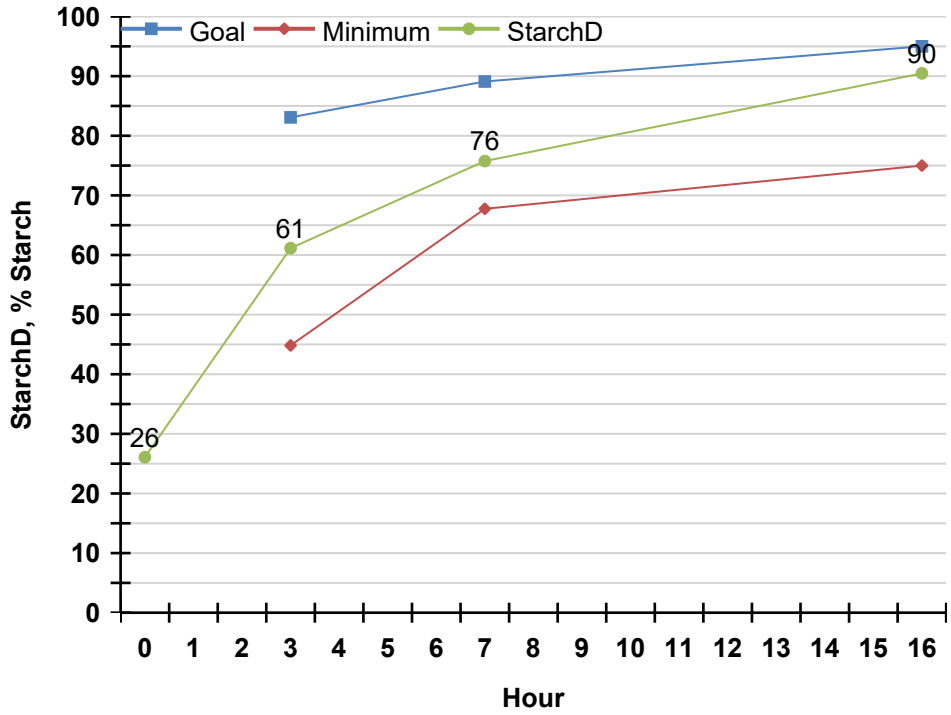
Energy Calculations	TDN	NEL	NEG	NEM
ADF (PA)				
OARDC Dairy				
NRC2001 Dairy				
Milk2006 Dairy	63.99	0.625	0.419	0.689
NRC2016 Beef				
Milk lb/Ton, Milk2006	2763			
Beef lb/Ton, NRC2016				
California TDN 90% DM				

Anti-Nutrients	
Mold	30,000,000
Yeast	400,000
Vomitoxin, ppm	
Aflatoxin, ppb	
Zearalenone, ppb	
Fumonisin, ppm	
T-2, ppb	
Ochratoxin-A, ppb	
Clostridium perfringens	
Enterobacteria	100

NDF Digestion Curve



Starch Digestion Curve

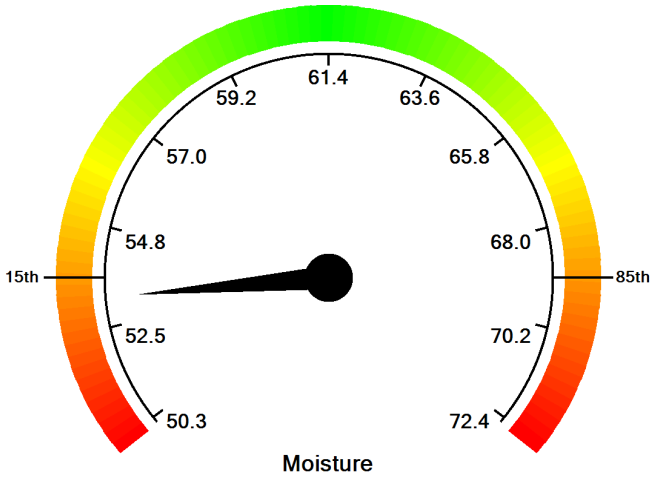


Yeast Count: 400,000 cfu/gr (Low Medium)
Mold Count: >30,000,000 cfu/gr (Very High)
Mold ID: Mucor

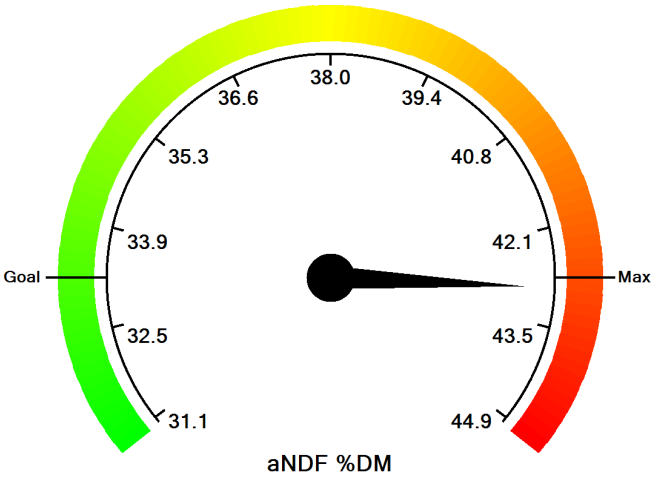
Visual Feed Analysis Report Example

Lab Number 0000001 06/29/2020
Sample ID Corn Silage
Farm Example Acres
Consultant John Smith

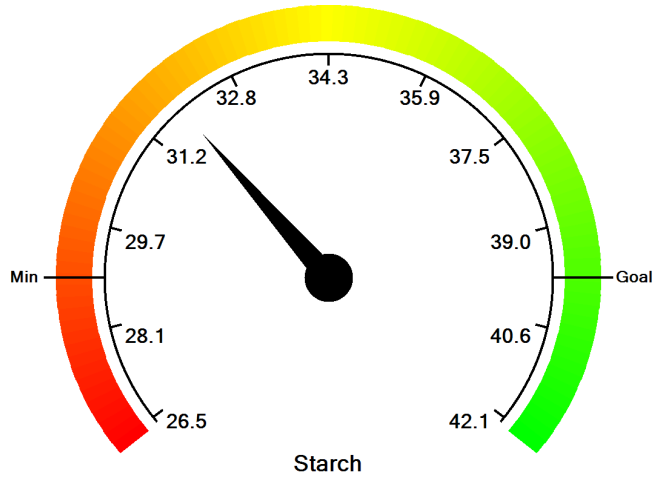
ROCK RIVER LABORATORY, INC.
AGRICULTURAL ANALYSIS



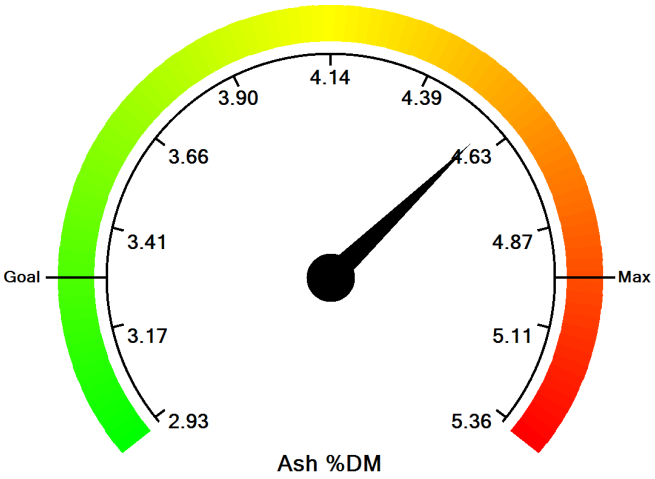
Moisture



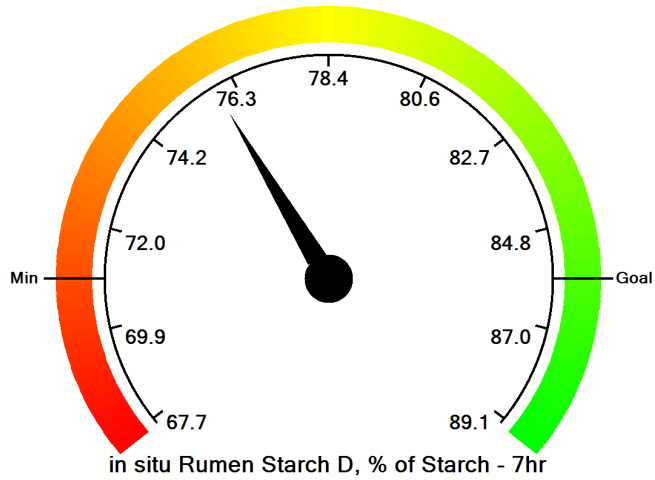
aNDF %DM



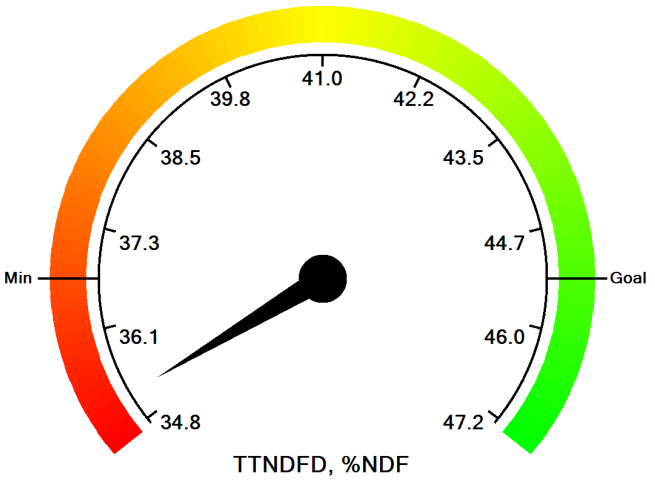
Starch



Ash %DM



in situ Rumen Starch D, % of Starch - 7hr



TTNDFD, %NDF

The Goal corresponds to the 85th percentile and the Minimum corresponds to the 15th percentile.