Received: 10/9/2024 **Sampled:** 10/8/2024 Possible Nitrate-N detected; consider wet chemistry Nitrate-N analysis

Rep: Example Smith

2nd Crop Haylage Bag

Moisture: 62.97

Dry Matter: 37.03

ROCK RIVER LABORATORY, INC.
AGRICULTURAL ANALYSIS

Protein & Amino Acid	%DM	60d	4 yr
Crude Protein	20.75	17.80	18.86
Total Amino Acid	18.62	16.30	16.55
Sol. CP, % of CP	53.94	44.53	44.02
NH3-N CP Equivalent	1.38	1.33	1.27
NH3-N, % of CP	6.63	7.48	6.97
ADICP	0.85	0.64	0.87
NDICP	1.46	1.97	2.12
ADICP, % of CP	4.11	3.56	4.75
Available CP	19.90	17.16	17.99
Nitrate-N, ppm			
Non-Protein Nitrogen			

Calculated Amino Acids			
Lysine, % of CP	5.28	5.33	5.15
Methionine, % of CP	1.67	1.69	1.63
Histidine, % of CP	2.00	2.02	1.95

Minerals & Ash			
Ash	9.69	10.10	10.98
Calcium	1.09	0.89	0.99
Phosphorus	0.25	0.29	0.31
Magnesium	0.21	0.25	0.29
Potassium	2.16	2.56	2.57
Sodium			
Sulfur	0.24	0.22	0.23
Chloride			
Aluminum			
Boron			
Copper			
Iron			
Manganese			
Molybdenum			
Zinc			

Carbohydrates	%DM	60d	4 yr
ADF	38.43	36.14	34.01
aNDF	43.13	47.40	43.88
aNDFom	40.11	43.97	40.22
Lignin	8.30	7.30	6.83
Starch	1.79	1.94	1.96
Sugar (ESC)	3.40	3.59	3.98
Sugar (WSC)	4.10	4.48	5.38
Glucose			
Fructose			
Sucrose			
Lactose			
Mannitol			
Total Sugar			
Crude Fiber			

Fermentation Products			
pH	4.18	4.65	4.79
Lactic Acid	6.81	4.93	3.90
Acetic Acid	1.50	1.30	1.00
Butyric Acid	0.42	0.23	0.22
Propionic Acid			
Succinic			
Formic			
Total Acids			
Ethanol			
1,2 Propanediol			
1 Propanol			
2,3 Butanediol			
2 Butanol			
2 Propanol			
Fermentation DM Loss	2.85	3.28	3.03
Ethyl Lactate			
Ethyl Acetate			

Fat	%DM	60d	4 yr
Ether Extract	2.44	2.80	2.72
Total Fatty Acid	1.52	1.49	1.52
Acid Hydrolysis			
	% of FA		
Myristic (C14:0)	1.83	1.84	1.78
Palmitic (C16:0)	24.36	22.11	20.25
Stearic (C18:0)	3.58	2.53	2.62
Oleic (C18:1 c9)	2.78	5.00	3.86
Linoleic (C18:2 c9,12)	19.66	19.74	20.50
Linolenic (C18:3 c9,12,15)	32.87	36.71	40.90
RUFAL	55.31	61.46	65.26

Nutrient Digestion, % of nutrient			
tNDFD12	20.60	23.60	24.10
tNDFD30	47.09	48.65	46.62
tNDFD48	49.68	58.79	59.00
tNDFD72			
tNDFD120	51.87	59.75	61.04
tNDFD240	55.01	61.24	62.60
tNDFD30om	50.08	51.53	49.23
tNDFD120om	54.81	62.64	63.68
tNDFD240om	57.91	63.92	65.23
sNDFD24	25.72	33.65	33.41
sNDFD30	31.25	40.13	39.66
sNDFD48	46.50	55.20	56.19
uNDF30, % DM	22.82	24.38	23.44
uNDF240, % DM	19.41	18.46	16.26
isSD0			
isSD3			
isSD7			
isSD16			
isSD24			
in situ RUP 16h			
RUP intest. dig., % RUP			

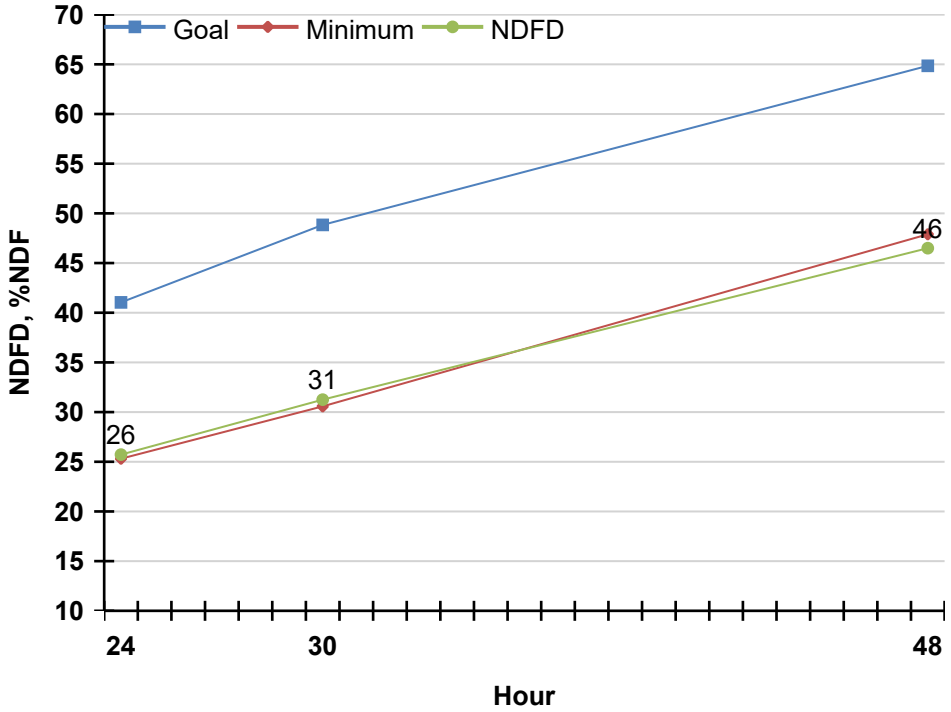
Comprehensive Nutrition Analysis Report

Calculations	%DM	60d	4 yr
Dynamic NDF kd, %/h	6.65	8.44	8.48
Dynamic Starch Kd, %/h			
RFV	127	120	132
RFQ	125	130	143
TTNDFD (UW-Combs), % of NDF	39.57	47.66	48.48
Total Tract Starch Dig			
NFC	25.44	23.64	25.45
DCAD			
Salt			
RDP %CP			

Energy / Particle Size	TDN	NEL	NEG	NEM
ADF (PA)				
OARDC Dairy				
NRC2001 Dairy				
Milk2006 Dairy	59.32	0.615	0.342	0.603
NRC2016 Beef				
Milk/Ton, lb	2727			
Beef lb/Ton				
Milk/Ton, lb (2024)				
Kernel Processing Score				
Berry Processing Score		Mean Particle Size		

Anti-Nutrients
Mold (Guidelines)
Yeast (Guidelines)
DON, ppm
Aflatoxin, ppb
Zearalenone, ppb
Fumonisin, ppm
T-2, ppb
Ochratoxin-A, ppb
Clostridium perfringens
Enterobacteria

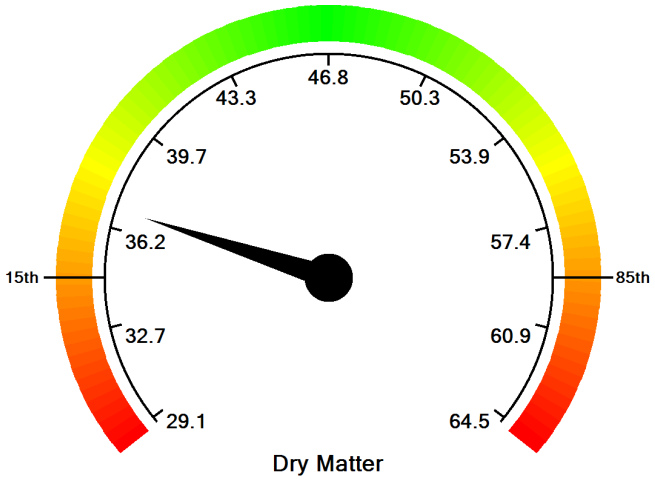
NDF Digestion Curve



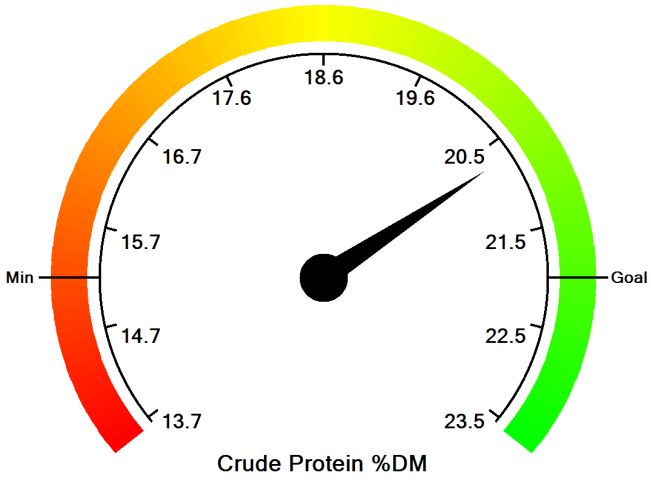
Visual Feed Analysis Report

Lab Number R2D2 10/8/2024
Sample ID 2nd Crop Haylage
Farm Farm ABC
Consultant Example Smith

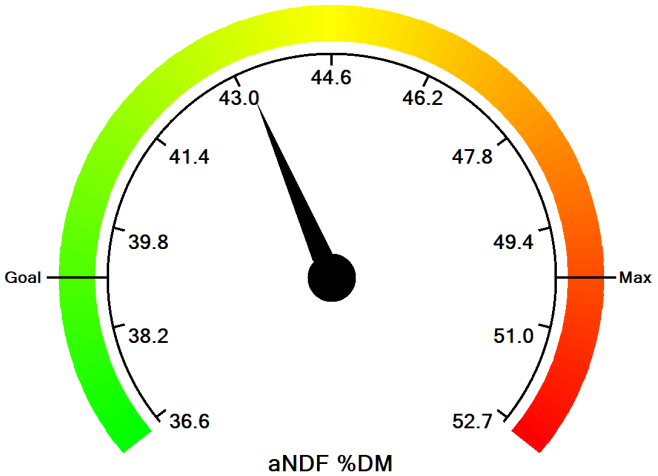
ROCK RIVER LABORATORY, INC.
AGRICULTURAL ANALYSIS



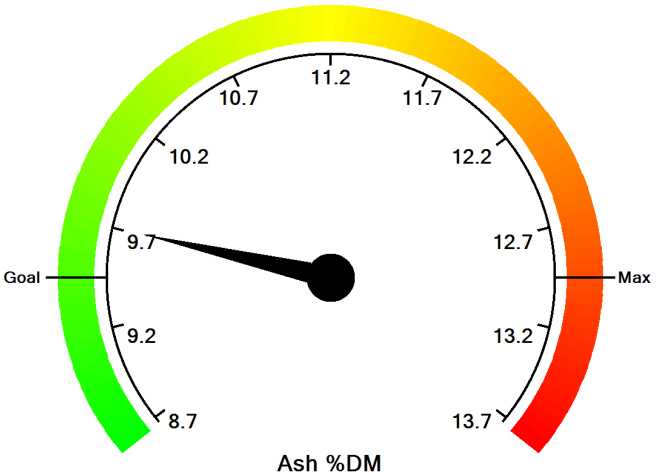
Dry Matter



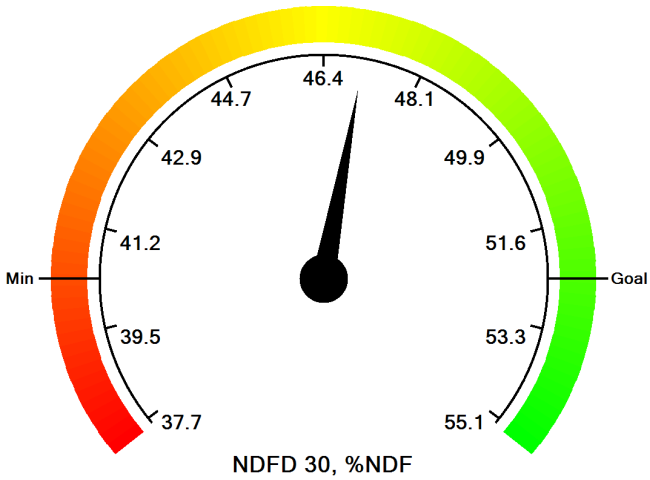
Crude Protein %DM



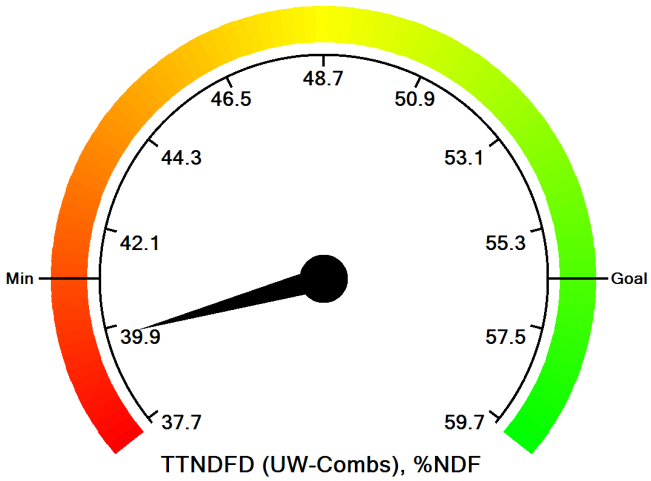
aNDF %DM



Ash %DM



NDFD 30, %NDF



TTNDFD (UW-Combs), %NDF

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