

Received: 7/3/2024 Sampled: 7/3/2024
 Rep: Ryan Heinen Dr Darren Zimmerman
 Ryan Heinen / 7-3-24 Prairie Wet Native Prairie Pasture

Moisture: 72.99
 Dry Matter: 27.01



Protein & Amino Acid	%DM	60d	4 yr
Crude Protein	9.68	14.36	15.22
Total Amino Acid			
Sol. CP, % of CP			
NH3-N CP Equivalent			
NH3-N, % of CP			
ADICP	0.54	0.32	0.61
NDICP	2.43	2.87	2.47
ADICP, % of CP	5.54	2.15	3.91
Available CP	9.14	14.05	14.61
Nitrate-N, ppm			
Non-Protein Nitrogen			

Calculated Amino Acids

Lysine, % of CP			
Methionine, % of CP			
Histidine, % of CP			

Minerals & Ash

Ash	%DM	60d	10.99
Calcium	0.27	0.35	0.42
Phosphorus	0.21	0.33	0.32
Magnesium	0.16	0.19	0.23
Potassium	1.09	2.56	2.61
Sodium			
Sulfur	0.09	0.19	0.21
Chloride			
Aluminum			
Boron			
Copper			
Iron			
Manganese			
Molybdenum			
Zinc			

Carbohydrates	%DM	60d	4 yr
ADF	38.56	34.81	35.52
aNDF	62.54	50.66	53.43
aNDFom			
Lignin	3.88	5.83	5.33
Starch	2.96	4.39	2.34
Sugar (ESC)			
Sugar (WSC)	7.34	11.54	7.71
Glucose			
Fructose			
Sucrose			
Lactose			
Mannitol			
Total Sugar			
Crude Fiber			

Fermentation Products

pH			
Lactic Acid			
Acetic Acid			
Butyric Acid			
Propionic Acid			
Succinic			
Formic			
Total Acids			
Ethanol			
1,2 Propanediol			
1 Propanol			
2,3 Butanediol			
2 Butanol			
2 Propanol			
Fermentation DM Loss			
Ethyl Lactate			
Ethyl Acetate			

Fat	%DM	60d	4 yr
Ether Extract	2.51	3.48	3.27
Total Fatty Acid			
Acid Hydrolysis			
	% of FA		
Myristic (C14:0)			
Palmitic (C16:0)			
Stearic (C18:0)			
Oleic (C18:1 c9)			
Linoleic (C18:2 c9,12)			
Linolenic (C18:3 c9,12,15)			
RUFAL			
Nutrient Digestion, % of nutrient			
tNDFD12			
tNDFD30	53.41	54.69	50.64
tNDFD48			
tNDFD72			
tNDFD120			
tNDFD240			
tNDFD30om			
tNDFD120om			
tNDFD240om			
sNDFD24			
sNDFD30			
sNDFD48			
uNDF30, % DM	29.14	22.23	26.04
uNDF240, % DM			
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			
Dynamic Starch Kd, %/h			
RFV	88	114	106
RFQ			
TTNDFD, % of NDF			
Total Tract Starch Dig			
NFC	21.44	23.72	18.11
DCAD			
Salt			
RDP %CP			

Energy Calculations	TDN	NEL	NEG	NEM
ADF (PA)				
OARDC Dairy				
NRC2001 Dairy	61.86	0.622	0.385	0.650
Milk2006 Dairy				
NRC2016 Beef				
Milk/Ton, lb				
Beef lb/Ton				
Milk/Ton, lb (2024)				

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