

Received: 6/27/2024 Sampled: 6/27/2024

Rep: Ryan Heinen Dr Darren Zimmerman  
Gwenyn Hill Farm / 6-27-24 Heif Pasture

Moisture: 66.25  
Dry Matter: 33.75



Protein & Amino Acid	%DM	60d	4 yr
<b>Crude Protein</b>	<b>7.93</b>	14.36	15.22
Total Amino Acid			
Sol. CP, % of CP			
NH3-N CP Equivalent			
NH3-N, % of CP			
<b>ADICP</b>	<b>0.33</b>	0.32	0.61
<b>NDICP</b>	<b>1.91</b>	2.87	2.47
ADICP, % of CP	4.12	2.15	3.91
Available CP	7.61	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	5.82	9.81	10.99
<b>Calcium</b>	<b>0.28</b>	0.35	0.42
<b>Phosphorus</b>	<b>0.18</b>	0.33	0.32
<b>Magnesium</b>	<b>0.12</b>	0.19	0.23
<b>Potassium</b>	<b>1.29</b>	2.56	2.61
Sodium			
<b>Sulfur</b>	<b>0.09</b>	0.19	0.21
Chloride			
Aluminum			
Boron			
Copper			
Iron			
Manganese			
Molybdenum			
Zinc			

Carbohydrates	%DM	60d	4 yr
<b>ADF</b>	<b>38.32</b>	34.81	35.52
<b>aNDF</b>	<b>64.51</b>	50.66	53.43
aNDFom			
<b>Lignin</b>	<b>3.52</b>	5.83	5.33
<b>Starch</b>	<b>2.90</b>	4.39	2.34
Sugar (ESC)			
<b>Sugar (WSC)</b>	<b>6.58</b>	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
<b>Ether Extract</b>	<b>2.83</b>	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			
<b>tNDFD30</b>	<b>56.48</b>	54.69	50.64
tNDFD48			
tNDFD72			
tNDFD120			
tNDFD240			
tNDFD30om			
tNDFD120om			
tNDFD240om			
sNDFD24			
sNDFD30			
sNDFD48			
<b>uNDF30, % DM</b>	<b>28.07</b>	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	85	114	106
RFQ			
TTNDFD, % of NDF			
Total Tract Starch Dig			
NFC	20.82	23.72	18.11
DCAD			
Salt			
RDP %CP			

Energy Calculations	TDN	NEL	NEG	NEM
ADF (PA)				
OARDC Dairy				
NRC2001 Dairy	62.88	0.624	0.401	0.669
Milk2006 Dairy				
NRC2016 Beef				
Milk/Ton, lb				
Beef lb/Ton				
Milk/Ton, lb (2024)				

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