

## Comprehensive Nutrition Analysis Report



High Group TMR

**Moisture:** 57.66  
**Dry Matter:** 42.34

Protein & Amino Acid	%DM	60d	4 yr
Crude Protein	17.15	16.27	
Total Amino Acid			
Sol. CP, % of CP	43.27		
NH3-N CP Equivalent			
NH3-N, % of CP			
ADICP	0.51	0.67	
NDICP	1.79		
ADICP, % of CP	2.97		
Available CP	16.64		
Nitrate-N			

### Calculated Amino Acids

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

### Minerals & Ash

Ash	9.59	8.12
Calcium		
Phosphorus		
Magnesium		
Potassium		
Sodium		
Sulfur		
Chloride		
Aluminum		
Boron		
Copper		
Iron		
Manganese		
Molybdenum		
Zinc		

Carbohydrates	%DM	60d	4 yr
ADF	20.40	20.54	
aNDF	27.49	30.57	
aNDFom	23.85	28.77	
Lignin	3.36	3.39	
Starch	22.92	26.37	
Sugar (ESC)	4.36	4.91	
Sugar (WSC)	6.00		
Glucose			
Fructose			
Sucrose			
Lactose			
Mannitol			
Crude Fiber			

### Fermentation Products

pH
Lactic Acid
Acetic Acid
Butyric Acid
Propionic Acid
Succinic
Formic
Ethanol
1,2 Propanediol
1 Propanol
2,3 Butanediol
2 Butanol
2 Propanol
Total Acids
Total Alcohols
Fermentation Shrink

Fat	%DM	60d	4 yr
Ether Extract	3.45	3.85	
Total Fatty Acid	2.63		
	% of FA	60d	4 yr
Myristic (C14:0)	0.82		
Palmitic (C16:0)	18.38		
Stearic (C18:0)	2.90		
Oleic (C18:1 c9)	13.35		
Linoleic (C18:2 c9,12)	35.52		
Linolenic (C18:3 c9,12,15)	24.01		
RUFAL	72.88		

### Nutrient Digestion, % of nutrient *\*Prefixes: s=standard, t=traditional*

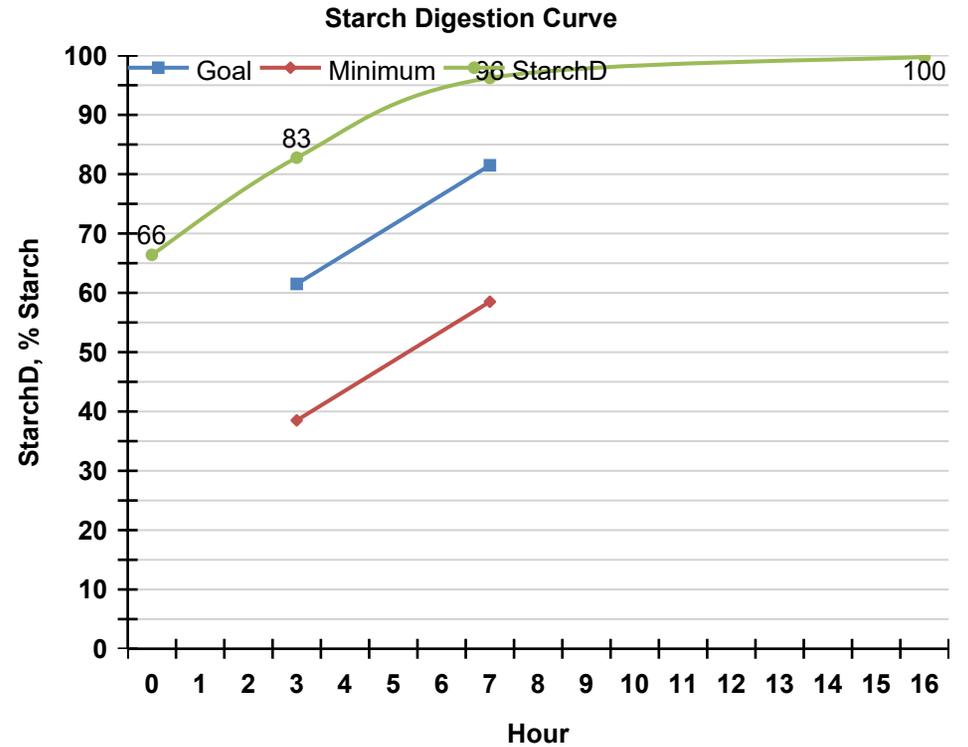
tNDFD30		
tNDFD48		
tNDFD120		
tNDFD240		
tNDFD30om		
tNDFD120om		
tNDFD240om		
sNDFD24		
sNDFD30		
sNDFD48		
uNDF30, % DM		
uNDF240, % DM		
uNDF30om, % DM		
uNDF240om, % DM		
in situ rumen starchD 0h	66.40	
in situ rumen starchD 3h	82.78	50.00
in situ rumen starchD 7h	96.23	70.00
in situ rumen starchD 16h	99.76	
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	39.93		
RFV			
RFQ			
TTNDFD, % of NDF			
Total Tract Starch Dig			
NFC	44.11		
DCAD			
Salt			

Energy Calculations	NEG	NEM
ADF (PA) TDN		
ADF (PA) NEL		
OARDC TDN		
OARDC NEL		
NRC2001 TDN	70.74	0.524 0.807
NRC2001 NEL	0.730	
TDN, Milk2006		
NEL 3x, Milk2006		
Milk/Ton, Milk2006		
California TDN 90% DM		

Anti-Nutrients
Mold
Yeast
Vomitoxin, ppm
Aflatoxin, ppb
Zearalenone, ppb
Fumonisin, ppm
T-2, ppb
Ochratoxin-A, ppb
<i>Clostridium perfringens</i>
<i>Salmonella &amp; Enterococcus</i>



Starch and Fat by wet chemistry

Received: 7/20/2018 Sampled: 7/20/2018

Rep:

GOESER DAIRY / Silage 2017

Protein & Amino Acid	%DM	60d	4 yr
Crude Protein	8.40	8.05	7.65
Total Amino Acid	8.00		
Sol. CP, % of CP	59.46		46.88
NH3-N CP Equivalent	0.78		
NH3-N, % of CP	9.29	11.96	11.96
ADICP	0.83	0.68	0.66
NDICP	1.52		1.19
ADICP, % of CP	9.91		
Available CP	7.56		
Nitrate-N			
Non-Protein Nitrogen			

**Calculated Amino Acids**

Lysine, % of CP	3.04
Methionine, % of CP	1.92
Histidine, % of CP	2.24

**Minerals & Ash**

Ash	5.06	4.37	4.13
Calcium	0.20	0.18	0.23
Phosphorus	0.21	0.22	
Magnesium	0.15	0.14	
Potassium	1.06	1.01	0.92
Sodium			
Sulfur	0.09	0.10	0.11
Chloride			
Aluminum			
Boron			
Copper			
Iron			
Manganese			
Molybdenum			
Zinc			

**Comprehensive Nutrition Analysis Report**

Moisture: 63.84 \$30.00  
 Dry Matter: 36.16



Carbohydrates	%DM	60d	4 yr
ADF	25.19	22.93	
aNDF	41.06	37.32	44.40
aNDFom	39.22	35.89	40.41
Lignin	5.03	3.60	2.77
Starch	29.98	33.68	32.57
Sugar (ESC)	1.67	1.65	1.35
Sugar (WSC)	2.37		3.05
Glucose			
Fructose			
Sucrose			
Lactose			
Mannitol			
Total Sugar			
Crude Fiber			
<b>Fermentation Products</b>			
pH	4.03		4.36
Lactic Acid	3.45	4.31	4.49
Acetic Acid	4.81	2.05	1.94
Butyric Acid	0.00	0.01	0.07
Propionic Acid			
Succinic			
Formic			
Ethanol			
1,2 Propanediol			
1 Propanol			
2,3 Butanediol			
2 Butanol			
2 Propanol			
Total Acids			
Total Alcohols			
Fermentation DM Loss	3.26		3.15

Fat	%DM	60d	4 yr
Ether Extract	2.88	2.75	2.12
Total Fatty Acid	1.83		

**% of FA**

Myristic (C14:0)	0.68
Palmitic (C16:0)	13.78
Stearic (C18:0)	1.92
Oleic (C18:1 c9)	18.77
Linoleic (C18:2 c9,12)	42.38
Linolenic (C18:3 c9,12,15)	9.63
RUFAL	70.77

**Nutrient Digestion, % of nutrient**

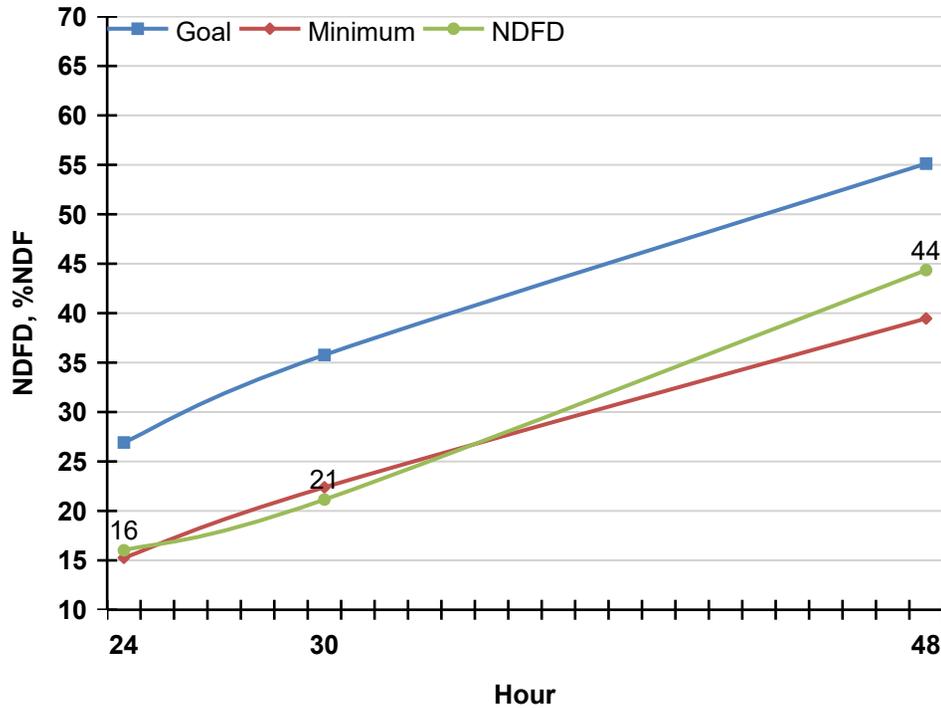
\*Prefixes: s=standard, t=traditional

tNDFD12			
tNDFD30	52.07	58.95	54.06
tNDFD48	61.15	67.27	64.29
tNDFD72			
tNDFD120	62.39	70.50	77.10
tNDFD240	63.63		80.50
tNDFD30om	55.13		
tNDFD120om	65.07		
tNDFD240om	66.26		
sNDFD24	16.02	25.57	21.09
sNDFD30	21.15	29.00	29.08
sNDFD48	44.35	50.00	47.29
uNDF30, % DM	19.68		
uNDF240, % DM	14.93		
in situ rumen starchD 0h	44.04		
in situ rumen starchD 3h	82.09		65.00
in situ rumen starchD 7h	88.11		75.00
in situ rumen starchD 16h	96.92		90.00
in situ RUP 16h			
RUP intest. dig., % RUP			

## Comprehensive Nutrition Analysis Report

Calculations	%DM	60d	4 yr	Energy Calculations		60d	4 yr	NEG	NEM	Anti-Nutrients
Dynamic NDF kd, %/h	4.66			ADF (PA) TDN	69.18			0.500	0.780	Mold
Dynamic Starch Kd, %/h	29.33			ADF (PA) NEL	0.711					Yeast
RFV				OARDC TDN	68.59			0.492	0.770	Vomitoxin, ppm
RFQ				OARDC NEL	0.708					Aflatoxin, ppb
TTNDFD, % of NDF	38.34	43.02	42.84	NRC2001 TDN						Zearalenone, ppb
Total Tract Starch Dig				NRC2001 NEL						Fumonisin, ppm
NFC	44.13			TDN, Milk2006	70.26			0.517	0.799	T-2, ppb
DCAD				NEL 3x, Milk2006	0.693					Ochratoxin-A, ppb
Salt				Milk/Ton, Milk2006	3228					<i>Clostridium perfringens</i>
RDP %CP				California TDN 90% DM						Enterobacteria

### NDF Digestion Curve



### Starch Digestion Curve

