

Phone: 402.463.3522

800.557.7509

Fax: 402,463,8132

1602 Park West Dr. • PO Box 169 • Hastings, NE 68902 www.servitech.com

DUTHWEST GRAIN NEW WG TO ELEVATOR D BOX 220 EW ENGLAND, ND 5864* LL GUSSEY AY, MIXED ATS MILLET 1/06/2023 AS Received N Near Infrared Refi		2023 Ceptified Continue Contin
AY, MIXED ATS MILLET 1/06/2023 50189 As Received N Near Infrared Ref	859	Hans Burken Lab Manager
N Near Infrared Ref	859	S) Analysis
Near Infrared Ref		S) Analysis
	lectance Spectroscopy (NIR	S) Analysis
14.7		
85.3		
8.08	9.47	
8.08	9.47	
0.50	0.59	
2.31	2.71	
18.11	21.22	
32.50	38.08	
51.52	60.37	
49.50	58.00	
3.29	3.85	A STATE OF THE STA
5.66	6.64	
13.87	16.25	
61.43	71.98	
5.07	5.94	
	8.08 8.08 0.50 2.31 18.11 32.50 51.52 49.50 3.29 5.66 13.87 61.43	8.08 9.47 8.08 9.47 0.50 0.59 2.31 2.71 18.11 21.22 32.50 38.08 51.52 60.37 49.50 58.00 3.29 3.85 5.66 6.64 13.87 16.25 61.43 71.98

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Lab No.: 10110		FEED A	ANALYSIS REPORT	Date Reported: 11/07/2023
eed Analysis Results		As Received	100% Dry Matter	
Fat (EE), %	n anni i men	3.09	3.62	
Total Fatty Acid (TFA),	% TFA	1.29	1.51	
Ash, %		6.70	7.85	
Calcium, % Ca		0.30	0.35	
Phosphorus, % P	The second secon	0.24	0.28	
Magnesium, % Mg	A MILION	0.16	0.19	
Potassium, % K		1.86	2.18	
Sulfur, % S		0.19	0.22	
Sugar (ESC), %		6.07	7.11	
Sugar (WSC), %	4.	6.88	8.06	
N.F.C., %		21.23	24.88	
RFV,	·····································	77.99	91.39	
Chloride, % Cl		0.30	0.35	
NEg M	AD 59. cal/lb 0.6 cal/lb 0.2 cal/lb 0.5	24 61.5 1 0.65 6 0.35	3	

NITRATE: LOW (701 - 1400 mg/kg NO3-N): Considered safe to feed for non-pregnant ruminants and horses. Suggest limiting this feedstuff to about 1/2 to 2/3 of the total dry matter intake in diets for pregnant ruminants if nitrate level is at the upper end of this range.

Feeding forages with potentially high nitrate levels requires careful management and observation. Limit access to the high nitrate forage, as necessary, especially if livestock are hungry. Avoid overconsumption by introducing livestock gradually to rations including high nitrate forages. Dilute high nitrate forages with low nitrate feedstuffs as described above to help avoid a toxic dose of nitrate. Feed a balanced ration with adequate energy.

Nitrate levels in standing forages can change between sampling and harvest. Retest harvested and cured forage before feeding to livestock.

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Lab No.: 10110		FEED ANALYSIS REPORT		Date Reported: 11/07/2023	
Feed Analysis Result	ts .	As Received 100% D	ry Matter		
Rating	mg/kg NO3-N	Comments			
Very Low	0-700	Safe			
Low	701-1400	Usually safe			
Medium	1401-2100	Potentially toxic			
High	2101-2800	Very Dangerous			
Very High	2801-3500	Extremely Dangerous			
Extremely High	Over 3500	Extremely Dangerous			
			NO 20 20 10 40		

NITRATE: Servi-Tech Laboratories reports these values as "mg/kg nitrate-nitrogen (mg/kg NO3-N)". Other sources may report values differently. Following are common conversions:

NO3 = NO3-N x 4.43 KNO3 = NO3-N x 7.20 % = mg/kg x 0.0001

USDA HAY QUALITY GUIDELINES: ALFALFA, ALFALFA/MIX (100% dry matter)

QUALITY	RFV	ADF %	NDF %	%CP
Supreme	> 185	< 27	< 34	> 22
Premium	170-185	27-29	34-36	20-22
Good	150-170	29-32	36-40	18-20
Fair	130-150	32-35	40-44	16-18
Utility	< 130	> 35	> 44	< 18

These USDA marketing guidelines are based primarily on alfalfa or alfalfa-grass mix for dairy cattle use. Suggested guidelines for other forages and other livestock uses are given below. Crude protein, visual appearance, intent of sale, end use, and other factors may influence final hay price. Regional pricing information is available from USDA Hay Marketing Service - Hay Reports at: www.ams.usda.gov/market-news/hay-reports

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ınding
for dairy cows

NIRs analysis performed utilizing Feedstuff Equations developed by Dairyland Labs, Inc.