Fax: 402.463.8132

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

Lab No.: 11411	FEED /	ANALYSIS REPORT	Date Reported: 11/10/2025
Send To: 33423	SOUTHWEST GRAIN NEW SWG 170 ELEVATOR RD PO BOX 220 NEW ENGLAND, ND 5864		NFTA NFTA 2025
	BILL GUSSEY	, space	
Feedstuff Description:	HAY		Have Bale
Sample Identification:	LOTT		Notes Breeze
Date Received:	11/07/2025		Hans Burken
Invoice No.:	777515		Lab Manager
PO Number:	1		
eed Analysis Results	As Received	100% Dry Matter	
Nitrate Nitrogen, mg/kg No	O3 N	990	
Miliate Miliogen, mg/kg N	00-IN	330	
	Near Infrared Ref	lectance Spectroscopy (NI	RS) Analysis
Moisture, %	18.3		
Dry Matter, %	81.7		
Crude Protein, %	10.37	12.70	
Adjusted Crude Protein, %	6 10.37	12.70	
AD-ICP, %	1.00	1.23	
ND-ICP (w/Na2SO3), %	1.59	1.95	
Soluble Protein, % CP	20.96	25.67	
ADF, % ADF	34.07	41.73	
aNDF (w/Na2SO3), % ND	F 45.42	55.63	
aNDFom, % aNDFom	42.30	51.81	
Lignin (Sulfuric Acid), %	5.28	6.47	
Lignin % NDF, %	10.20	12.49	
uNDFom240, %	18.97	23.23	
NDFD240, % NDF	45.04	55.16	
Starch, %	8.63	10.57	



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Feed Analysis Results	As Received	100% Dry Matter	
Fat (EE), %	2.37	2.90	
Total Fatty Acid (TFA), % TFA	1.06	1.30	
Ash, %	9.56	11.71	
Calcium, % Ca	0.44	0.54	
Phosphorus, % P	0.23	0.28	
Magnesium, % Mg	0.18	0.22	
Potassium, % K	1.82	2.23	
Sulfur, % S	0.17	0.21	
Sugar (ESC), %	3.05	3.74	
Sugar (WSC), %	4.52	5.54	
N.F.C., %	19.13	23.43	
RFV,	77.00	94.30	
Chloride, % CI	0.44	0.54	
TDN % 5 NEI Meal/lb 0 NEg Mcal/lb 0	ADF 54.97 54.3 0.56 0.56 0.26 0.27 0.52 0.52	1	

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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Feed Analysis Results	As Received 100% Dry Matter		

NITRATE TOXICITY POTENTIAL: ServiTech reports these values as "mg/kg NO3-N" (milligram per kilogram nitrate-nitrogen). Other sources may report toxicity potential differently.

Rating	NO3-N mg/kg	Comments	NO3 ppm	KNO3 ppm	NO3 %
Very Low	0 - 700	Safe	0 - 3000	0 - 5000	0.00 - 0.31
Low	700 - 1400	Usually safe	3000 - 6000	5000 - 10,000	0.31 - 0.62
Medium	1400 - 2100	Potentially toxic	6000 - 9500	10,000 - 15,000	0.62 - 0.93
High	2100 - 2800	Very toxic	9500 - 12,500	15,000 - 20,000	0.93 - 1.24
Very High	2800 - 3500	Highly toxic	12,500 - 15,500	20,000 - 25,000	1.24 - 1.55
Extremely High	Over 3500	Highly toxic	Over 15,000	Over 25,000	Over 1.55

(Note: "mg/kg" and "ppm" are equivalent units; % = mg/kg x 0.0001)

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

QUALITY	RFV	ADF %	NDF %	<u>%CP</u>
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

RFV	SUGGESTED LIVESTOCK USES:		
> 150	Prime dairy cows; fresh and high producers		
125 - 150	Good dairy cows; young heifers; backgrounding		
105 - 125	Good beef cattle; older heifers; marginal for dairy cows		
87 - 105	Maintenance of beef and dairy cows		
75 - 87	May require supplementation		
< 75	Will require supplementation		

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