






1602 Park West Dr. • PO Box 169 • Hastings, NE 68902  
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Lab No.: 11410		FEED ANALYSIS REPORT		Date Reported: 11/10/2025	
<b>Send To:</b> 33423		SOUTHWEST GRAIN NEW ENGLAND SWG 170 ELEVATOR RD PO BOX 220 NEW ENGLAND, ND 58647		 	
<b>Results For:</b> <b>Feedstuff Description:</b> <b>Sample Identification:</b> <b>Date Received:</b>		BILL GUSSEY HAY LOT S 11/07/2025		 Hans Burken Lab Manager	
<b>Invoice No.:</b> <b>PO Number:</b>		777515 4900352482			
Feed Analysis Results      As Received      100% Dry Matter					
Nitrate Nitrogen, mg/kg NO3-N      662					
<b>Near Infrared Reflectance Spectroscopy (NIRS) Analysis</b>					
Moisture, %		12.2			
Dry Matter, %		87.8			
Crude Protein, %		9.31		10.60	
Adjusted Crude Protein, %		9.24		10.52	
AD-ICP, %		0.97		1.11	
ND-ICP (w/Na2SO3), %		1.53		1.74	
Soluble Protein, % CP		20.62		23.49	
ADF, % ADF		38.21		43.52	
aNDF (w/Na2SO3), % NDF		51.57		58.74	
aNDFom, % aNDFom		47.85		54.50	
Lignin (Sulfuric Acid), %		5.22		5.94	
Lignin % NDF, %		9.57		10.90	
uNDFom240, %		18.42		20.98	
NDFD240, % NDF		54.00		61.50	
Starch, %		8.80		10.02	



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Fat (EE), %		2.39	2.72	
Total Fatty Acid (TFA), % TFA		1.15	1.31	
Ash, %		10.20	11.62	
Calcium, % Ca		0.31	0.35	
Phosphorus, % P		0.23	0.26	
Magnesium, % Mg		0.15	0.17	
Potassium, % K		1.96	2.23	
Sulfur, % S		0.14	0.16	
Sugar (ESC), %		3.60	4.10	
Sugar (WSC), %		5.15	5.86	
N.F.C., %		19.94	22.71	
RFV,		76.47	87.10	
Chloride, % Cl		0.47	0.54	
		<u>ADF</u>	<u>OARDC</u>	
TDN	%	52.93	54.39	
NEI	Mcal/lb	0.53	0.55	
NEg	Mcal/lb	0.23	0.26	
NEm	Mcal/lb	0.49	0.51	

**NITRATE: VERY LOW (0 - 700 mg/kg NO<sub>3</sub>-N):** Considered safe to feed for all classes of livestock.



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Feed Analysis Results	As Received	100% Dry Matter

**NITRATE TOXICITY POTENTIAL:** ServiTech reports these values as "mg/kg NO<sub>3</sub>-N" (milligram per kilogram nitrate-nitrogen). Other sources may report toxicity potential differently.

Rating	NO <sub>3</sub> -N mg/kg	Comments	NO <sub>3</sub> ppm	KNO <sub>3</sub> ppm	NO <sub>3</sub> %
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 %	%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](http://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.