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

Phone: 402.463.3522
800.557.7509
Fax: 402.463.8132

Lab No.: 11408

FEED ANALYSIS REPORT

Date Reported: 11/10/2025

Send To:
33423

SOUTHWEST GRAIN NEW ENGLAND
SWG
170 ELEVATOR RD
PO BOX 220
NEW ENGLAND, ND 58647

NFTA 2025 NFTA 2025

Results For:	BILL GUSSEY
Feedstuff Description:	HAY
Sample Identification:	LOT Q
Date Received:	11/07/2025
Invoice No.:	777515
PO Number:	4900352482

Hans Burken
Lab Manager

Feed Analysis Results	As Received	100% Dry Matter
Nitrate Nitrogen, mg/kg NO3-N		1510

Near Infrared Reflectance Spectroscopy (NIRS) Analysis

Moisture, %	12.3	
Dry Matter, %	87.7	
Crude Protein, %	11.14	12.71
Adjusted Crude Protein, %	11.14	12.71
AD-ICP, %	0.86	0.98
ND-ICP (w/Na2SO3), %	1.56	1.78
Soluble Protein, % CP	32.42	36.98
ADF, % ADF	34.53	39.39
aNDF (w/Na2SO3), % NDF	47.21	53.85
aNDFom, % aNDFom	45.04	51.38
Lignin (Sulfuric Acid), %	4.83	5.51
Lignin % NDF, %	9.40	10.72
uNDFom240, %	18.88	21.54
NDFD240, % NDF	50.92	58.08
Starch, %	5.15	5.87

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

Phone: 402.463.3522
800.557.7509
Fax: 402.463.8132

Lab No.: 11408

FEED ANALYSIS REPORT

Date Reported: 11/10/2025

Feed Analysis Results	As Received	100% Dry Matter
Fat (EE), %	2.76	3.15
Total Fatty Acid (TFA), % TFA	1.44	1.64
Ash, %	10.16	11.59
Calcium, % Ca	0.53	0.61
Phosphorus, % P	0.23	0.26
Magnesium, % Mg	0.20	0.23
Potassium, % K	2.60	2.97
Sulfur, % S	0.20	0.23
Sugar (ESC), %	5.85	6.67
Sugar (WSC), %	7.34	8.37
N.F.C., %	20.57	23.46
RFV,	88.16	100.56
Chloride, % Cl	0.88	1.00

		ADF	OARDC
TDN	%	57.64	56.58
NEl	Mcal/lb	0.59	0.57
NEg	Mcal/lb	0.30	0.30
NEm	Mcal/lb	0.56	0.56

NITRATE: MEDIUM (1401 - 2100 mg/kg NO3-N): Suggest limiting this feedstuff to about 1/4 to 1/2 of the total dry matter intake in diets for pregnant ruminants. Suggest limiting this feedstuff to about 1/2 to 2/3 of the total dry matter intake in diets for non-pregnant ruminants. Considered safe for horses.

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.

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

Phone: 402.463.3522
800.557.7509
Fax: 402.463.8132

Lab No.: 11408 **FEED ANALYSIS REPORT** **Date Reported:** 11/10/2025

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 %	%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***

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.