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Lab No.: 10102		FEED ANALYSIS REPORT		Date Reported: 11/07/2023
Send To: 33423	SOUTHWEST GRAIN NEW ENGLAND SWG 170 ELEVATOR PO BOX 220 NEW ENGLAND, ND 58647			
Results For: Feedstuff Description: Sample Identification: Date Received: Invoice No.:	BILL GUSSEY ALFALFA HAY ALFALFA 1B 11/06/2023 750189		 Hans Burken Lab Manager	
Feed Analysis Results As Received 100% Dry Matter				
Near Infrared Reflectance Spectroscopy (NIRS) Analysis				
Moisture, %		12.5		
Dry Matter, %		87.5		
Crude Protein, %		13.55	15.50	
Adjusted Crude Protein, %		13.55	15.50	
AD-ICP, %		1.06	1.21	
ND-ICP (w/Na2SO3), %		2.74	3.13	
Soluble Protein, % CP		19.52	22.32	
ADF, % ADF		36.40	41.62	
aNDF (w/Na2SO3), % NDF		47.28	54.06	
aNDFom, % aNDFom		45.49	52.02	
Lignin (Sulfuric Acid), %		6.46	7.39	
Lignin % NDF, %		12.42	14.21	
uNDFom240, %		21.89	25.03	
NDFD240, % NDF		45.37	51.88	
Starch, %		3.00	3.43	
Fat (EE), %		2.03	2.32	

The reported analytical results apply only to the sample as it was supplied.
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Feed Analysis Results		As Received	100% Dry Matter	
Total Fatty Acid (TFA), % TFA		0.82	0.94	
Ash, %		8.51	9.73	
Calcium, % Ca		0.80	0.91	
Phosphorus, % P		0.26	0.30	
Magnesium, % Mg		0.24	0.27	
Potassium, % K		2.29	2.62	
Sulfur, % S		0.20	0.23	
Sugar (ESC), %		4.03	4.61	
Sugar (WSC), %		5.45	6.23	
N.F.C., %		20.94	23.94	
RFV,		85.00	97.20	
Chloride, % Cl		0.32	0.37	
		<u>ADF</u>	<u>OARDC</u>	
TDN	%	56.48	54.92	
NEI	Mcal/lb	0.58	0.56	
NEg	Mcal/lb	0.28	0.29	
NEm	Mcal/lb	0.54	0.54	

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Lab No.: 10111	FEED ANALYSIS REPORT			Date Reported: 11/07/2023														
Feed Analysis Results	As Received	100% Dry Matter																
USDA HAY QUALITY GUIDELINES: ALFALFA, ALFALFA/MIX (100% dry matter)																		
<u>QUALITY</u>	<u>RFV</u>	<u>ADF %</u>	<u>NDF %</u>	<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														
<p>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</p> <table> <thead> <tr> <th><u>RFV</u></th> <th><u>SUGGESTED LIVESTOCK USES:</u></th> </tr> </thead> <tbody> <tr> <td>> 150</td> <td>Prime dairy cows; fresh and high producers</td> </tr> <tr> <td>125 - 150</td> <td>Good dairy cows; young heifers; backgrounding</td> </tr> <tr> <td>105 - 125</td> <td>Good beef cattle; older heifers; marginal for dairy cows</td> </tr> <tr> <td>87 - 105</td> <td>Maintenance of beef and dairy cows</td> </tr> <tr> <td>75 - 87</td> <td>May require supplementation</td> </tr> <tr> <td>< 75</td> <td>Will require supplementation</td> </tr> </tbody> </table> <p>NIRs analysis performed utilizing Feedstuff Equations developed by Dairyland Labs, Inc.</p>					<u>RFV</u>	<u>SUGGESTED LIVESTOCK USES:</u>	> 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
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