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| Lab No.: 10103 | | 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 2 11/06/2023 750189 | |  Hans Burken Lab Manager | |
| Feed Analysis Results | | As Received | 100% Dry Matter | |
| Near Infrared Reflectance Spectroscopy (NIRS) Analysis | | | | |
| Moisture, % | 16.3 | | | |
| Dry Matter, % | 83.7 | | | |
| Crude Protein, % | 13.78 | | 16.46 | |
| Adjusted Crude Protein, % | 13.78 | | 16.46 | |
| AD-ICP, % | 1.28 | | 1.53 | |
| ND-ICP (w/Na2SO3), % | 2.76 | | 3.30 | |
| Soluble Protein, % CP | 24.17 | | 28.86 | |
| ADF, % ADF | 33.36 | | 39.84 | |
| aNDF (w/Na2SO3), % NDF | 41.03 | | 49.00 | |
| aNDFom, % aNDFom | 38.75 | | 46.27 | |
| Lignin (Sulfuric Acid), % | 6.86 | | 8.19 | |
| Lignin % NDF, % | 14.82 | | 17.70 | |
| uNDFom240, % | 19.91 | | 23.78 | |
| NDFD240, % NDF | 40.71 | | 48.61 | |
| Starch, % | 2.41 | | 2.88 | |
| Fat (EE), % | 2.35 | | 2.81 | |

The reported analytical results apply only to the sample as it was supplied.
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| Lab No.: 10103 | | FEED ANALYSIS REPORT | | Date Reported: 11/07/2023 |
|-------------------------------|---------|-----------------------------|-----------------|---------------------------|
| Feed Analysis Results | | As Received | 100% Dry Matter | |
| Total Fatty Acid (TFA), % TFA | | 0.96 | 1.15 | |
| Ash, % | | 11.29 | 13.48 | |
| Calcium, % Ca | | 1.01 | 1.21 | |
| Phosphorus, % P | | 0.26 | 0.31 | |
| Magnesium, % Mg | | 0.42 | 0.50 | |
| Potassium, % K | | 2.30 | 2.75 | |
| Sulfur, % S | | 0.23 | 0.28 | |
| Sugar (ESC), % | | 4.31 | 5.15 | |
| Sugar (WSC), % | | 5.32 | 6.35 | |
| N.F.C., % | | 20.88 | 24.94 | |
| RFV, | | 92.02 | 109.89 | |
| Chloride, % Cl | | 0.50 | 0.60 | |
| | | ADF | OARDC | |
| TDN | % | 57.86 | 52.12 | |
| NEI | Mcal/lb | 0.59 | 0.53 | |
| NEg | Mcal/lb | 0.31 | 0.25 | |
| NEm | Mcal/lb | 0.56 | 0.51 | |

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| Lab No.: 10102 | 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 |
| <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 | | | | | | | | | | | | | | | | | |
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