

Account No. : 31810

NIR Analysis Report

LYTLE, RUSTY
22781 CROOKED CREEK RD
WALL SD 57790

Invoice No. : 1407070
Date Received : 07/31/2023
Date Reported : 08/02/2023

Lab Number : 5883

Results For : RUSTY LYTLE
Sample ID : M WILLIAMS 2ND CUT - 194
Description : ALFALFA

	Analysis As Received	Analysis Dry Basis
Moisture, %	12.98	0.00
Dry Matter, %	87.02	100.00
PROTEIN		
Crude Protein, %	17.1	19.7
FIBERS		
Acid Detergent Fiber, %	28.2	32.4
Neutral Detergent Fiber, %	32.8	37.7
NDFD (digestibility) 48 hr, % of NDF		46
IVTDMD (in vitro true digestibility) 48 hr, %	70.9	81.5
ENERGIES		
TDN Est., %	50.5	58.0
Net Energy Lact, MCal/lb	0.5140	0.5906
Net Energy Maint, MCal/lb	0.4921	0.5655
Net Energy Gain, MCal/lb	0.2678	0.3078
QUALITY VALUE		
Relative Feed Value		157
Relative Forage Quality		162
MINERALS		
Calcium, % Ca	1.12	1.29
Phosphorus, % P	0.23	0.26
Potassium, % K	2.91	3.34
Magnesium, % Mg	0.23	0.27
Ash, %	8.17	9.39
OTHER ANALYSIS		
Fat, %	1.6	1.8
Starch, %	0.1	0.2
Lignin, %	6.50	7.47
Non Fiber Carbohydrates, %	29.1	33.5
Ethanol-Soluble Carbohydrates, %	5.4	6.2
Water-Soluble Carbohydrates, %	6.9	7.9

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Invoice No. : 1406950
Date Received : 07/28/2023
Date Reported : 08/01/2023

Lab Number : 5776

Results For : RUSTY LYTLE
Sample ID : 1-2ND CUTTING 246
Description : HAY

	Analysis As Received	Analysis Dry Basis
Moisture, %	13.70	0.00
Dry Matter, %	86.30	100.00
PROTEIN		
Crude Protein, %	18.7	21.7
FIBERS		
Acid Detergent Fiber, %	23.3	27.0
Neutral Detergent Fiber, %	29.3	33.9
NDFD (digestibility) 48 hr, % of NDF		49
IVTDMD (in vitro true digestibility) 48 hr, %	72.7	84.2
ENERGIES		
TDN Est., %	53.6	62.1
Net Energy Lact, MCal/lb	0.5487	0.6358
Net Energy Maint, MCal/lb	0.5409	0.6268
Net Energy Gain, MCal/lb	0.3138	0.3636
QUALITY VALUE		
Relative Feed Value		186
Relative Forage Quality		193
MINERALS		
Calcium, % Ca	0.88	1.02
Phosphorus, % P	0.23	0.27
Potassium, % K	2.35	2.72
Magnesium, % Mg	0.29	0.34
Ash, %	8.13	9.42
OTHER ANALYSIS		
Fat, %	1.6	1.9
Starch, %	0.7	0.9
Lignin, %	5.48	6.35
Non Fiber Carbohydrates, %	30.2	35.0
Ethanol-Soluble Carbohydrates, %	6.6	7.7
Water-Soluble Carbohydrates, %	8.2	9.5

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Invoice No. : 1406950
Date Received : 07/28/2023
Date Reported : 08/01/2023

Lab Number : 5778

Results For : RUSTY LYTLE
Sample ID : 3-2ND CUTTING 293
Description : HAY

	Analysis As Received	Analysis Dry Basis
Moisture, %	14.32	0.00
Dry Matter, %	85.68	100.00
PROTEIN		
Crude Protein, %	18.9	22.0
FIBERS		
Acid Detergent Fiber, %	27.3	31.9
Neutral Detergent Fiber, %	33.1	38.7
NDFD (digestibility) 48 hr, % of NDF		46
IVTDMD (in vitro true digestibility) 48 hr, %	68.9	80.4
ENERGIES		
TDN Est., %	50.1	58.4
Net Energy Lact, MCal/lb	0.5099	0.5951
Net Energy Maint, MCal/lb	0.4897	0.5715
Net Energy Gain, MCal/lb	0.2685	0.3133
QUALITY VALUE		
Relative Feed Value		154
Relative Forage Quality		153
MINERALS		
Calcium, % Ca	1.02	1.19
Phosphorus, % P	0.25	0.29
Potassium, % K	2.36	2.76
Magnesium, % Mg	0.25	0.29
Ash, %	9.30	10.85
OTHER ANALYSIS		
Fat, %	1.5	1.7
Starch, %	0.9	1.1
Lignin, %	6.23	7.27
Non Fiber Carbohydrates, %	24.6	28.8
Ethanol-Soluble Carbohydrates, %	4.3	5.0
Water-Soluble Carbohydrates, %	5.7	6.7