WARD Laboratories, Inc.

Ag Testing - Consulting

2018 Certified NIRS by NFTA DM CP ADF NDF

Account No. : 31074

NIR Analysis Report

SIOUX NATION AG CNTR
PO BOX 452
FT PIERRE SD 57532-0452

Invoice No. : 1293538
Date Received : 07/24/2019
Date Reported : 07/25/2019

Lab Number : 4491

Results For : ZAY NORMAN
Sample ID : NORTH ALFALFA
Description : ALFALFA/GRASS

	Analysis As Received	Analysis Dry Basis
Moisture, %	13.77	0.00
Dry Matter, %	86.23	100.00
PROTEIN		
Crude Protein, %	13.9	16.1
FIBERS		
Acid Detergent Fiber, %	31.6	36.7
Neutral Detergent Fiber, %	42.6	49.5
NDFD (digestibility) 48 hr, % of NDF		44
IVTDMD (in vitro true digestibility) 48 hr, %	63.3	73.3
ENERGIES		
TDN Est., %	52.4	60.7
Net Energy Lact, MCal/lb	0.5360	0.6216
Net Energy Maint, MCal/lb	0.5226	0.6061
Net Energy Gain, MCal/lb	0.2973	0.3448
QUALITY VALUE		
Relative Feed Value		113
Relative Forage Quality		121
MINERALS		
Calcium, % Ca	0.99	1.15
Phosphorus, % P	0.18	0.21
Potassium, % K	1.66	1.93
Magnesium, % Mg	0.22	0.25
Ash, %	5.30	6.15
OTHER ANALYSIS		
Fat, %	1.4	1.6
Starch, %	1.5	1.8
Lignin, %	7.34	8.51
Non Fiber Carbohydrates, %	24.0	27.8
Ethanol-Soluble Carbohydrates, %	6.0	7.0
Water-Soluble Carbohydrates, %	6.8	7.9

Reviewed By : Rebecca Kern **7/25/2019** **Copy : 1**

Bus: 308-234-2418
Fax: 308-234-1940
web site
www.wardlab.com
4007 Cherry Ave., P.O. Box 788
Kearney, Nebraska 68848-0788