

Alfalfa - Study

Amway

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***Irrigation Research Foundation -- Yuma, CO -- Circle E
Lab Results from Olsen's Agricultural Laboratory -- McCook, NE***

Planted: Fall 2006

Drilled Population: 17 lbs./acre

fertilizer dry spread 7-31-18-s=8 @375#/acre

03/29/10

Herbicide Applied:

Velpar 1.20 pts/acre

03/29/10

Interlock @ 2oz./acre

Treatment Applied:

APSA 80 @ 15 oz. per acre

04/21/10

Lab Results	1st Cutting 6/1/10		2nd Cutting 7/1/10		3rd Cutting 8/11/10		4th Cutting 9/17/10	
	<i>Rec'd</i>	<i>Dried</i>	<i>Rec'd</i>	<i>Dried</i>	<i>Rec'd</i>	<i>Dried</i>	<i>Rec'd</i>	<i>Dried</i>
Moisture %	17.50	0.00	6.10	0.00	17.10	0.00	11.10	0.00
Dry Matter %	82.50	100.00	93.90	100.00	82.90	100.00	88.90	100.00
Crude Protein %	20.80	25.20	21.40	22.80	23.10	27.90	27.60	31.10
Acid Detergent Fiber %	25.00	30.30	29.90	31.90	26.70	32.20	24.10	27.10
Neutral Detergent Fiber %	27.90	33.80	38.70	41.20	28.50	34.40	24.00	27.00
Digestible NDF %								
Calcium %	1.30	1.58	1.13	1.20	1.12	1.35	1.49	1.68
Phosphorus %	0.30	0.36	0.16	0.17	0.32	0.38	0.32	0.36
Magnesium %	0.20	0.24	0.23	0.25	0.22	0.27	0.28	0.31
Potassium %	2.95	3.57	3.20	3.41	2.84	3.43	3.26	3.67
Heat Damaged Protein %								
Available Protein %								
Digestible Protein Est. %								
TDN Estimated %	54.60	66.20	60.70	64.60	53.30	64.30	62.00	69.70
ENE Est., Therms / cwt								
NE / Lactation, Mcal/lb	0.56	0.68	0.62	0.66	0.55	0.66	0.64	0.72
NE / Maintenance, Mcal/lb	0.57	0.69	0.62	0.66	0.55	0.66	0.66	0.74
NE / Gain, Mcal/lb	0.35	0.42	0.37	0.40	0.33	0.39	0.41	0.46
Relative Feed Value (RFV)	180.00		145.00		173.00		234.00	
Relative Forage Quality (RFQ)								
* Tons per Acre	2.50		1.60		1.00		1.10	
Total Tons per Acre			6.20				Average RFV	183.00

*PLOT EFFECTED BY RAINFALL SECOND, THIRD & FORTH CUTTING
Weather, daytime temperatures and other factors affect data results, as in any year.

The Irrigation Research Foundation strives to record and control these factors where possible.
Not all of these factors are measurable or recognized.