

Garst Seed Co. /6530

www.garstseed.com

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 Applied

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

03/29/10

Herbicide Applied:

Velpar 1.20 pts/acre

03/29/10

Raptor 6 oz./acre & NIS @ 1qt./100 gal.

7/28/10

| 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 % | 18.50 | 0.00 | 7.20 | 0.00 | 23.60 | 0.00 | 13.00 | 0.00 |
| Dry Matter % | 81.50 | 100.00 | 92.80 | 100.00 | 76.40 | 100.00 | 87.00 | 100.00 |
| Crude Protein % | 20.80 | 25.50 | 24.40 | 26.30 | 20.10 | 26.30 | 25.90 | 29.80 |
| Acid Detergent Fiber % | 22.70 | 27.80 | 28.40 | 30.60 | 24.40 | 32.00 | 23.50 | 27.00 |
| Neutral Detergent Fiber % | 26.80 | 32.90 | 33.20 | 35.80 | 28.40 | 37.20 | 24.40 | 28.00 |
| Digestible NDF % | | | | | | | | |
| Calcium % | 1.34 | 1.65 | 1.27 | 1.37 | 0.98 | 1.28 | 1.47 | 1.69 |
| Phosphorus % | 0.26 | 0.32 | 0.30 | 0.32 | 0.32 | 0.42 | 0.30 | 0.35 |
| Magnesium % | 0.21 | 0.26 | 0.25 | 0.27 | 0.21 | 0.28 | 0.23 | 0.26 |
| Potassium % | 2.99 | 3.67 | 3.29 | 3.54 | 2.98 | 3.90 | 3.03 | 3.48 |
| Heat Damaged Protein % | | | | | | | | |
| Available Protein % | | | | | | | | |
| Digestible Protein Est. % | | | | | | | | |
| TDN Estimated % | 56.20 | 68.90 | 61.20 | 65.90 | 49.30 | 64.50 | 60.70 | 69.80 |
| ENE Est., Therms / cwt | | | | | | | | |
| NE / Lactation, Mcal/lb | 0.58 | 0.71 | 0.63 | 0.68 | 0.51 | 0.66 | 0.63 | 0.72 |
| NE / Maintenance, Mcal/lb | 0.59 | 0.73 | 0.63 | 0.68 | 0.51 | 0.66 | 0.64 | 0.74 |
| NE / Gain, Mcal/lb | 0.37 | 0.45 | 0.38 | 0.41 | 0.30 | 0.40 | 0.40 | 0.46 |
| Relative Feed Value (RFV) | 190.00 | | 169.00 | | 160.00 | | 225.00 | |
| Relative Forage Quality (RFQ) | | | | | | | | |
| Tons per Acre | 2.50 | | 1.60 | | 1.00 | | 1.10 | |
| Total Tons per Acre | 6.20 | | | | Average RFV | | 186.00 | |

PLOT SUBJECT TO HIGH WINDS

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.