

Garst Seed Company / 6415

www.garstseed.com

Irrigation Research Foundation -- Yuma, CO -- Circle D

Lab Results from Olsen's Agricultural Laboratory -- McCook, NE

Planted: Fall 2006

Drilled Population: 17 lbs/acre

Herbicide Applied:

3/18/09 Dry Fertilizer: 7-31-18-8 @ 250 #/Acre

3/18/09 Impregnated: Velpar @ 1.5 pnts/Acre

Lab Results	1st Cutting 6/1		2nd Cutting 7/9		3rd Cutting 8/01		4th Cutting 8/29	
	<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 %	21.20	0.00	11.60	0.00	N/A	N/A	14.60	0.00
Dry Matter %	78.80	100.00	88.40	100.00	N/A	N/A	85.50	100.00
Crude Protein %	16.90	21.50	21.70	24.50	N/A	N/A	21.70	25.40
Acid Detergent Fiber %	27.20	34.50	22.30	25.20	N/A	N/A	15.90	18.60
Neutral Detergent Fiber %	31.80	40.30	28.30	32.00	N/A	N/A	19.80	23.10
Digestible Nutrients (TDN) %	48.70	61.80	13.90	15.80	N/A	N/A	9.70	11.40
Fat	N/A	N/A	N/A	N/A	N/A	N/A	2.31	2.71
Ash	N/A	N/A	N/A	N/A	N/A	N/A	11.13	13.03
Lignin	N/A	N/A	N/A	N/A	N/A	N/A	6.20	7.26
Sugar	N/A	N/A	N/A	N/A	N/A	N/A	8.80	10.30
Calcium %	0.97	1.23	1.35	1.52	N/A	N/A	2.03	2.37
Phosphorus %	0.26	0.33	0.33	0.38	N/A	N/A	0.28	0.33
Potassium %	2.55	3.23	2.74	3.10	N/A	N/A	2.14	2.50
Magnesium %	0.17	0.22	0.27	0.30	N/A	N/A	0.26	0.31
Heat Damaged Protein %	n/a	n/a	0.60	0.70	N/A	N/A	0.40	0.50
Available Protein %	n/a	n/a	21.70	24.50	N/A	N/A	21.70	25.40
Digestible Protein Est. %	n/a	n/a	15.20	17.20	N/A	N/A	15.50	18.10
TDN Estimated %	n/a	n/a	63.40	71.70	N/A	N/A	67.30	78.70
ENE Est., Therms / cwt	n/a	n/a	54.30	61.40	N/A	N/A	58.00	67.90
NE / Lactation, Mcal/lb	0.50	0.63	0.66	0.74	N/A	N/A	0.70	0.82
NE / Maintenance, Mcal/lb	0.49	0.62	0.68	0.77	N/A	N/A	0.74	0.87
NE / Gain, Mcal/lb	0.28	0.36	0.43	0.49	N/A	N/A	0.49	0.57
Relative Feed Value (RFV)	143.00		201.60				299.40	
Relative Forage Quality (RFQ)			208.70				303.80	
Tons per Acre	2.40							
Total Tons per Acre			2.40		Average RFV		214.67	

PLOT SUBJECT TO COOL TEMPERATURES, HEAVY PRECIPITATION & EXTREME HAIL
 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.

SECOND CUTTING WAS DESTROYED BY HAIL ON JULY 23RD EFFECTING TONS PER ACRE & AVAILABILITY FOR 3RD CUTTING TEST

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<i>Lab Results</i>	<i>1st Cutting 06/1</i>		<i>2nd Cutting 7/9</i>		<i>3rd Cutting 8/01</i>		<i>4th Cutting 8/29</i>	
	<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 %	16.80	0.00	10.60	0.00	N/A	N/A	14.50	0.00
Dry Matter %	83.20	100.00	89.40	100.00	N/A	N/A	85.50	100.00
Crude Protein %	18.60	22.30	22.70	25.30	N/A	N/A	19.90	23.30
Acid Detergent Fiber %	26.40	31.70	22.50	25.20	N/A	N/A	18.20	21.30
Neutral Detergent Fiber %	32.70	39.30	28.40	31.80	N/A	N/A	21.90	25.60
Total Digestible Nutrients (TDN) %	53.90	64.80	13.30	14.90	N/A	N/A	11.20	13.10
Fat	N/A	N/A	N/A	N/A	N/A	N/A	2.46	2.88
Ash	N/A	N/A	N/A	N/A	N/A	N/A	10.32	12.06
Lignin	N/A	N/A	N/A	N/A	N/A	N/A	5.93	6.94
Sugar	N/A	N/A	N/A	N/A	N/A	N/A	8.48	9.92
Calcium %	1.04	1.25	1.32	1.48	N/A	N/A	1.88	2.19
Phosphorus %	0.28	0.34	0.33	0.37	N/A	N/A	0.28	0.33
Potassium %	2.67	3.21	2.80	3.13	N/A	N/A	2.28	2.67
Magnesium %	0.20	0.24	0.26	0.29	N/A	N/A	0.21	0.24
Heat Damaged Protein %	n/a	n/a	0.60	0.70	N/A	N/A	0.40	0.50
Available Protein %	n/a	n/a	22.70	25.30	N/A	N/A	19.90	23.30
Digestible Protein Est. %	n/a	n/a	15.90	17.80	N/A	N/A	14.30	16.70
TDN Estimated %	n/a	n/a	64.20	71.80	N/A	N/A	65.00	75.90
ENE Est., Therms / cwt	n/a	n/a	55.00	61.50	N/A	N/A	55.90	65.40
NE / Lactation, Mcal/lb	0.55	0.67	0.67	0.75	N/A	N/A	0.68	0.79
NE / Maintenance, Mcal/lb	0.55	0.67	0.69	0.77	N/A	N/A	0.71	0.83
NE / Gain, Mcal/lb	0.33	0.40	0.44	0.49	N/A	N/A	0.46	0.54
Relative Feed Value (RFV)	152.00		202.70				262.50	
Relative Forage Quality (RFQ)			203.50				274.80	
Tons per Acre	2.00							
Total Tons per Acre			2.00		Average RFV		205.73	

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