

# New Mexico 2008 Corn and Sorghum Performance Tests



Agricultural Experiment Station  
Cooperative Extension Service  
College of Agriculture and Home Economics

**New Mexico  
2008  
Corn and Sorghum Performance Tests**

New Mexico State University  
Agricultural Science Centers  
at  
Artesia, Clovis, Farmington, Los Lunas and Tucumcari

Department of Extension Plant Sciences

and

Department of Plant and Environmental Sciences

Agricultural Experiment Station/Cooperative Extension Service  
College of Agricultural, Consumer and Environmental Sciences  
New Mexico State University

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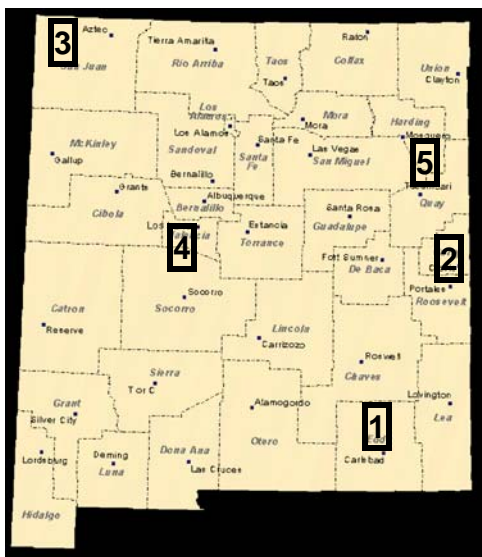
# New Mexico 2008 Corn and Sorghum Performance Tests

## INTRODUCTION

Performance tests for grain corn, grain sorghum, forage corn, forage sorghum and sorghum sudangrass were conducted at the Agricultural Science Centers at Artesia, Clovis, Farmington, Los Lunas and Tucumcari, New Mexico in 2008 (Figure 1). This report contains information from all Agricultural Science Center corn and sorghum tests.

The New Mexico corn and sorghum performance testing program is part of an ongoing program to provide farmers, Extension workers and seed industry personnel with reliable, unbiased, information that will allow a valid comparison of corn and sorghum varieties/hybrids at various locations throughout the state. The state of New Mexico encompasses eight climate zones, all of which have some form of agricultural production (Figure 2). Variability in climate, soils, water and local production practices contribute to the need for crop performance tests throughout the state. Climate data for the Agricultural Science Center testing locations are shown in Table 1. Growers who use this report to make cropping decisions should rely primarily on results from tests near their location or in comparable climate zones.

Figure 1. Corn and sorghum testing locations.



1. Agricultural Science Center at Artesia
2. Agricultural Science Center at Clovis
3. Agricultural Science Center at Farmington
4. Agricultural Science Center at Los Lunas
5. Agricultural Science Center at Tucumcari

Figure 2. Climate zones in New Mexico.

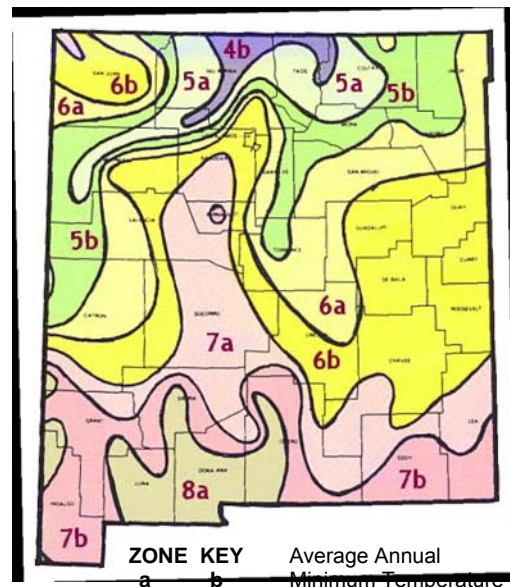


Table 1. Historical average monthly precipitation (inches) and temperatures (°F) for cooperating agricultural science centers.

	Artesia	Clovis	Farmington	Los Lunas	Tucumcari
<b>Precipitation (inches)</b>					
January	0.37	0.36	0.52	0.37	0.37
February	0.42	0.38	0.57	0.43	0.46
March	0.44	0.75	0.77	0.53	0.76
April	0.65	0.82	0.69	0.47	1.13
May	1.09	1.98	0.59	0.46	2.00
June	1.43	2.40	0.21	0.63	1.91
July	1.71	2.74	0.91	1.25	2.61
August	1.72	2.97	1.12	1.74	2.71
September	1.74	1.89	1.09	1.18	1.55
October	1.18	1.62	0.92	1.06	1.28
November	0.55	0.54	0.76	0.49	0.68
December	0.50	0.50	0.47	0.52	0.57
Total	11.79	16.94	8.62	9.12	16.03
<b>Average Temperature (°F)</b>					
January	40.6	37.9	30.6	34.5	38.3
February	45.2	41.6	36.2	40.1	42.1
March	51.8	47.9	43.7	47.0	48.9
April	60.5	56.2	51.2	54.6	57.4
May	69.2	64.9	60.4	63.3	66.2
June	77.4	73.6	70.0	72.1	75.5
July	79.7	76.5	75.5	76.6	79.0
August	78.3	74.7	73.0	74.6	77.3
September	71.6	68.5	65.7	67.2	70.5
October	61.0	58.4	53.7	55.7	59.6
November	48.8	46.3	40.7	43.5	47.4
December	40.8	39.1	31.3	35.0	39.1
Average	60.4	57.1	52.7	55.3	58.4

Source: Western Region Climate Center. <http://www.wrcc.dri.edu/summary/climsmnm.html>

## TEST LOCATIONS

The New Mexico corn and sorghum performance testing program is supported by paid fees from the cooperating companies. Personnel at each location determine which tests will be conducted at their site and seed companies are invited to participate in those tests. Because seed company participation in individual tests and locations is voluntary, many of the hybrids/varieties that are grown in the state are not included in the tests, and different groups of hybrids/varieties are evaluated at the different locations.

A list of seed companies that participated in the 2008 fee-test program and relevant contact information are presented in Appendix A. Additional company names and contacts may be added to the list of prospective companies by contacting the Agricultural Science Center at Clovis, 2346 State Road 288, Clovis, NM 88101, (575) 985-2292, [http://clovis@nmsu.edu](mailto:clovis@nmsu.edu). Entry forms for the 2009 Corn and Sorghum Performance Tests will be mailed to seed companies in February 2009. Additional 2009 entry forms can be obtained from the address above.

## TEST PROCEDURES

In an effort to provide readers with easily accessible information, procedural data for individual tests are presented in the 'Test Description' tables that immediately precede the summary tables of results for the tests. The 'Test Description' tables contain information on location, test design, management practices and growing conditions. Test description tables are designated with an 'A' suffix.

All of the Agricultural Science Center performance tests were replicated randomized complete block designs (RBD). Where appropriate, statistical analyses were used to calculate measures of least significant difference (LSD), coefficient of variability (CV) and F test values. All LSD's are reported at the 95% probability level. For the LSD value to be considered significant, the F test value in that same column must be less than 0.05. If the F test value is greater than 0.05 the LSD is non-significant at the 95% probability level. When the F test value is less than 0.05, it is appropriate to use the LSD value as a measure of the magnitude by which one entry must differ from another to be considered significantly different. The CV is a measure of variability relative to the mean. A CV below 10% generally indicates reliable, uniform data. CV's of 10 to 20% are indicators of normal variability for grain and forage tests.

Yields for the grain tests are presented on a bushel-per-acre or pound-per-acre basis, adjusted to a standard moisture content and bushel weight. Corn yields are calculated at a standard moisture of 15.5% and a bushel weight of 56 lb. Grain sorghum yields are calculated at a standard moisture of 14% and a bushel weight of 56 lb.

Dry and green forage yields reported for the forage tests are in tons per acre. Moisture at harvest was calculated from a representative sample (approximately 1 lb.) from harvested plots. Samples from variety tests at the Agricultural Science Centers were dried in a forced air oven (150°F) for determination of moisture content. Moisture content determinations at Farmington were derived from air-dried samples. Sub-samples of the dried material from all locations were submitted to the University of Wisconsin, Soil and Forage Analysis Laboratory, Marshfield, WI for nutrient composition



analysis using near infrared reflectance spectroscopy (NIRS). For these trials, milk production estimates were calculated using the University of Wisconsin Milk2000 and Milk2006 spreadsheet programs.

## RESULTS

Results for the 2008 corn and sorghum hybrid/variety tests are shown in Tables 2-21. Results are presented in tables designated with 'B' or 'C' suffixes. Within tables, hybrids and varieties are ranked according to grain yield or total dry forage yield. A glossary of terms used in the tables is presented in Appendix B.

### Grain Corn

Entries for grain corn tests were accepted by the Agricultural Science Centers at Clovis, Farmington and Los Lunas.

The Clovis grain corn test contained 25 entries. Mean grain yield was 197 bu/ac and significant yield differences among varieties were observed (Table 2A-B).

Two grain corn tests were conducted at Farmington. The early season grain corn test contained 32 entries. Mean grain yield was 138 bu/ac and yields were different. (Table 3A-B). Farmington's full-season grain corn test consisted of 13 entries. Mean grain yield was 129 bu/ac and yield differences among hybrids were significant (Table 4A-B).

The grain corn test at Los Lunas contained 7 hybrids, which produced a mean grain yield of 275 bu/ac (Table 5A-B). There were no statistical yield differences for grain corn entries at Los Lunas.

### Grain Sorghum

Grain sorghum tests were conducted at the Clovis science center in 2008. The Clovis site contained dryland and limited irrigation trials. It should be noted that the dryland test at Clovis was irrigated once after planting in order to aid in establishment. The researchers recognize that this is not a true 'dryland' representation, but also recognize that no data would be collected if the test did not establish due to drought after planting. A one-time irrigation after planting was deemed more logical than a complete crop disaster yielding no information. Several entries included in the dryland test were part of a larger, regional testing program conducted by Texas A&M in which the Clovis center participates. Although yield results are reported, company contact information and variety characteristics of these entries are not included in this report.

At Clovis, 7 grain sorghum varieties were entered into the limited irrigation test. Mean yield was 53 bu/A (2991 lb/A) for the trial under limited irrigation (<10 in.; Table 6A-B). The dryland grain sorghum test contained 41 entries; mean test yield was 88 bu/A (4927 lb/A) and yields ranged from 58 to 116 bu/A (Tables 7A-B). Excellent in-season precipitation contributed to high yields.

### Forage Corn

Forage corn tests were conducted at the Agricultural Science Centers at Artesia, Clovis, Farmington and Los Lunas. The Artesia forage corn test consisted of 25 entries.

Mean dry forage yield was 6.8 ton/ac and yield and forage quality differences were observed (Table 8A-B).

There were 30 entries in the Clovis forage corn test. Mean dry forage yield was 9.8 ton/A and wet yields averaged 29.8 ton/A (Table 9A-B). Hybrids differed in all yield and nutrient composition parameters.

Eight hybrids were evaluated in the Farmington forage corn test. Dry forage yield averaged 8.0 ton/ac and yields were similar among hybrids (Table 10A-B). Differences were observed for several measures of nutrient composition, but not for yield.

The Los Lunas forage corn test was comprised of 10 hybrids. Mean dry forage yield was 13.2 ton/ac and yields and quality parameters differed among the hybrids (Table 11A-B).

### Forage Sorghum

Entries for irrigated forage sorghum evaluations were accepted at the Agricultural Science Centers at Artesia, Clovis, Los Lunas and Tukumcari. There were 5 entries in the forage sorghum test at Artesia. Mean dry forage yield was 7.0 ton/ac (Table 12A-B). Forage yields and quality estimates were different among the entries.

At Clovis, there were 20 entries in the irrigated forage sorghum test. Mean dry forage yield was 8.7 ton/ac and differences were observed for yield and nutritive parameters (Table 13A-B). A separate dryland forage sorghum trial (16 entries) was conducted at Clovis; and one cutting was obtained. Total dry forage yield was excellent and averaged 5.6 ton/ac for the year (14A-B). Large amounts of in-season rainfall contributed to the high dryland yields. Several experimental sweet sorghums were included in both the irrigated and dryland tests. These sorghums are similar in appearance to conventional forage sorghums, but have high concentrations of sugars in the plant.

Los Lunas had 2 entries in its forage sorghum test. Mean dry forage yield was 8.2 ton/ac (Table 15A-B). None of the yield or quality measurements were significantly different between the varieties.

Tukumcari received 10 entries into the forage sorghum tests (Table 16A-B). Average dry matter yield was 4.0 ton/ac; however, yields and most quality parameters were not different.

### Sorghum Sudangrass

Entries for sorghum sudangrass tests were accepted by the Agricultural Science Centers at Artesia, Clovis, Los Lunas and Tukumcari. At Clovis, a separate dryland sorghum sudangrass trial was conducted, and all plots were harvested at the late boot stage of maturity or later. All plots were harvested twice at all locations except Los Lunas.

There were 6 entries in the sorghum sudangrass test at Artesia. Plots were harvested on July 23 and October 7, and mean dry forage yields were 2.7 and 4.3 ton/ac for first and second harvests, respectively (Table 17A-C). Dry forage yield differences were significant for the second harvest only.

The irrigated sorghum sudangrass test at Clovis contained 15 entries. First harvests were conducted on July 22, July 28, August 4 and August 7 for the grasses, depending

on stage of maturity (late boot/early head) and mean dry forage was 3.8 ton/ac (Table 18A-C). Second cuttings for all plots occurred on October 31. Mean dry forage yield was 4.0 ton/ac at the second cutting. Differences were observed for most measures of yield and nutritive quality at both cuttings. In the dryland sorghum sudangrass trial at Clovis, there were 10 entries and; mean dry yield was 3.2 ton/ac (Table 19A-C) and fresh yields averaged 14.6 ton/ac for the test at the first cutting. A second cutting was possible and dry forage yields were 2.0 ton/ac overall. Total dry forage yield for the year exceeded 5 ton/ac. Similar to the dryland forage sorghum trial, large quantities of rainfall in-season contributed to good yields and quality.

Sorghum sudangrass trials at Los Lunas contained 3 entries and were harvested only once. Mean dry yields were excellent and exceeded 10 ton/ac (Table 20A-B).

The sorghum sudangrass trial at Tucumcari was irrigated with 24 inches of water and contained 20 entries (Table 21A-C). Mean total, dry yield was 2.6 ton/ac, and no differences existed among varieties for most yield and quality parameters.

**Table 2A. New Mexico 2008 Grain Corn Performance Test - Agricultural Science Center at Clovis**

**Investigators:** R.E. Kirksey, M.A. Marsalis, A. Scott, and B. Niece

**Test Description**

<p><b>Location:</b>                  County/Area: Curry                  Longitude: -103.22                  Latitude: 34.60                  Elevation: 4435 ft.                  Soil Name: Olton                  Soil Texture: clay loam                  Soil Depth: &gt;60 in.</p>	<p><b>Management Practices:</b>                  Previous Crop: Wheat                  Planting Date: 24-Apr                  Harvest Date: 9-Oct</p> <p><b>Production Inputs</b></p> <table border="1"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Fertilizer:</b></td> </tr> <tr> <td>Nitrogen</td> <td>270 lb/a</td> <td>28-Feb</td> </tr> <tr> <td>P<sub>2</sub>O<sub>5</sub></td> <td>60 lb/a</td> <td>28-Feb</td> </tr> <tr> <td>S</td> <td>45.6 lb/a</td> <td>28-Feb</td> </tr> <tr> <td>Zn</td> <td>4 qt/a</td> <td>28-Feb</td> </tr> <tr> <td>B</td> <td>2 lb/a</td> <td>28-Feb</td> </tr> <tr> <td colspan="3"><b>Herbicides:</b></td> </tr> <tr> <td>Bicep Lite II Mag</td> <td>3 pt/a</td> <td>26-Apr</td> </tr> <tr> <td>Dual II Mag</td> <td>0.5 pt/a</td> <td>18-Jun</td> </tr> <tr> <td colspan="3"><b>Insecticides:</b></td> </tr> <tr> <td>Onager</td> <td>8 oz/a</td> <td>18-Jun</td> </tr> <tr> <td>Intrepid 2F</td> <td>8 oz/a</td> <td>9-Aug</td> </tr> </tbody> </table>		Rate	Date	<b>Fertilizer:</b>			Nitrogen	270 lb/a	28-Feb	P <sub>2</sub> O <sub>5</sub>	60 lb/a	28-Feb	S	45.6 lb/a	28-Feb	Zn	4 qt/a	28-Feb	B	2 lb/a	28-Feb	<b>Herbicides:</b>			Bicep Lite II Mag	3 pt/a	26-Apr	Dual II Mag	0.5 pt/a	18-Jun	<b>Insecticides:</b>			Onager	8 oz/a	18-Jun	Intrepid 2F	8 oz/a	9-Aug	<p><b>Growing Conditions:</b></p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>34.3</td><td></td><td></td></tr> <tr><td>February</td><td>41.2</td><td>0.20</td><td></td></tr> <tr><td>March</td><td>46.9</td><td>0.10</td><td>1.00</td></tr> <tr><td>April</td><td>53.7</td><td>0.73</td><td>1.80</td></tr> <tr><td>May</td><td>62.5</td><td>1.75</td><td>1.30</td></tr> <tr><td>June</td><td>75.5</td><td>3.95</td><td>6.55</td></tr> <tr><td>July</td><td>73.0</td><td>4.74</td><td>4.20</td></tr> <tr><td>August</td><td>73.0</td><td>3.56</td><td>6.10</td></tr> <tr><td>September</td><td>65.5</td><td>1.02</td><td>0.75</td></tr> <tr><td>October</td><td>56.5</td><td>4.51</td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> <tr> <td>Seasonal Precipitation:</td> <td></td> <td>20.6 in.</td> <td></td> </tr> <tr> <td>Total Irrigation:</td> <td></td> <td>21.7 in.</td> <td></td> </tr> <tr> <td>Date of Last Spring Frost:</td> <td colspan="3">11-May</td> </tr> <tr> <td>Date of First Fall Frost:</td> <td colspan="3">23-Oct</td> </tr> <tr> <td>Frost Free Period:</td> <td colspan="3">165 days</td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January	34.3			February	41.2	0.20		March	46.9	0.10	1.00	April	53.7	0.73	1.80	May	62.5	1.75	1.30	June	75.5	3.95	6.55	July	73.0	4.74	4.20	August	73.0	3.56	6.10	September	65.5	1.02	0.75	October	56.5	4.51		November				December				Seasonal Precipitation:		20.6 in.		Total Irrigation:		21.7 in.		Date of Last Spring Frost:	11-May			Date of First Fall Frost:	23-Oct			Frost Free Period:	165 days		
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<p><b>Test Design:</b>                  Replications: 4                  Plot Length: 20 ft.                  Rows per Plot: 2                  Row Spacing: 30 in.                  Seeding Rate: 32000 seed/a</p>																																																																																																																	

**Table 2B. New Mexico 2008 Grain Corn Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid/Variety Name	Grain Yield bu/a	Moisture		Plant Height in	Ear Height in	Silk Date
			at Harvest %	Test Weight lb/bu			
Integra	IX07640BC	226.9	17.4	56.0	95.5	39.9	13-Jul
Eureka Seeds	ES-7654RR	221.2	19.2	55.6	99.9	39.4	19-Jul
Integra	9673VT3	212.4	18.4	55.0	102.4	41.8	17-Jul
Dyna-Gro/UAP	DG 58 P27	211.5	19.3	55.0	98.4	43.3	17-Jul
Mycogen Seeds	2T789 HX1/LL/RR2	210.8	18.1	55.5	100.9	43.3	18-Jul
Mycogen Seeds	2W814 HX1/LL/RR2	208.2	17.3	57.1	101.9	42.3	15-Jul
Dyna-Gro/UAP	DG 58 P59	207.2	17.1	54.3	98.4	41.3	17-Jul
Integra	9674RB	205.9	18.1	53.8	106.8	40.9	17-Jul
Grand Valley Hybrids	X6V113	205.9	18.3	55.1	91.0	31.5	14-Jul
Monsanto Company	Dekalb DKC67-87 (RR2/YGCB)	201.4	18.2	56.8	104.3	45.8	15-Jul
Mycogen Seeds	2T804 HX1/LL/RR2	199.9	16.8	56.1	99.9	40.9	14-Jul
Dairyland Seed Co., Inc.	Dairyland ST-9116	199.4	17.2	57.1	96.5	45.3	13-Jul
Grand Valley Hybrids	X6RH83	197.2	17.6	55.4	100.9	43.3	18-Jul
Integra	IX07651VT3	196.9	17.8	55.3	90.1	33.5	16-Jul
Eureka Seeds	ST-7679RR	191.0	17.8	54.9	99.4	38.9	16-Jul
Monsanto Company	Dekalb DKC61-69 (VT3)	190.7	15.6	54.8	90.1	37.4	12-Jul
Grand Valley Hybrids	X7V112	190.3	18.1	55.7	92.5	33.5	17-Jul
Mycogen Seeds	2T826 HX1/LL/RR2	189.0	19.0	55.0	99.9	39.9	18-Jul
Mycogen Seeds	2M797 HX1/LL	188.4	17.0	55.6	102.9	44.3	15-Jul
Eureka Seeds	ESX-7133	184.2	17.2	55.3	102.4	42.8	12-Jul
Grand Valley Hybrids	X7RH111	184.1	18.0	54.2	103.8	49.2	14-Jul
Monsanto Company	Dekalb DKC64-79 (VT3)	181.8	15.5	56.6	91.5	34.0	15-Jul
Monsanto Company	Dekalb DKC66-23 (RR2/YGCB)	181.6	17.1	56.6	96.0	36.4	14-Jul
Eureka Seeds	ES-7548VT3	178.9	17.4	54.9	96.0	37.4	14-Jul
Dairyland Seed Co., Inc.	Dairyland ST-9114	157.0	15.5	56.6	95.5	39.4	16-Jul
	Trial Mean	196.9	17.6	55.5	98.3	40.2	15-Jul
	LSD	31.7	0.9	0.9	4.5	3.2	3.0
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05
	CV	11.4	3.7	1.2	3.3	5.7	1.1
	F Test	0.0274	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001



**Table 3B. New Mexico 2008 Early Season Grain Corn Performance Test - Agricultural Science Center at Farmington**

**Results**

Brand/Company Name	Hybrid/Variety Name	Moisture		Test Weight	Plant Height	Ear Height	Plant Population	Silk Date	Days to Silk	Lodging	Relative Maturity
		Yield	Harvest								
		bu/a	%	lb/bu	in	in	plants/a		days	%	days
Monsanto Company	Dekalb DKC52-59 (VT3)	192.4	12.0	58.0	98.0	47.0	31,577	1-Aug	80	23.9	102
Integra	IX08543RB	181.7	12.8	60.0	106.0	49.0	32,131	30-Jul	78	29.4	104
Integra	IX08544	173.1	12.4	58.0	101.0	43.0	31,439	1-Aug	80	48.6	104
Pioneer Hi-Bred Int'l	37K11 (HX1, LL, RR2)	172.8	11.7	58.5	96.0	43.0	30,331	1-Aug	80	3.1	99
Monsanto Company	Dekalb DKC55-24 (VT3)	170.5	12.3	59.4	91.0	43.0	30,192	3-Aug	82	20.8	105
Integra	9530VT3	166.7	12.0	58.1	92.0	48.0	31,577	3-Aug	82	6.6	102
Integra	9511VT3	152.8	12.1	58.2	90.0	41.0	32,824	4-Aug	83	15.2	100
Eureka Seeds	ES-7548VT3	152.4	15.5	55.5	99.0	47.0	31,439	4-Aug	83	33.5	116
Integra	9531RB	151.6	13.4	59.3	99.0	46.0	32,547	31-Jul	79	40.2	100
Integra	IX08483BL	149.6	12.6	59.4	88.0	38.0	33,516	31-Jul	80	6.2	98
Integra	IX08500RB	149.6	12.4	58.5	94.0	45.0	32,547	3-Aug	82	15.3	100
Integra	6602VT3	149.3	12.8	58.2	89.0	39.0	29,223	3-Aug	82	10.7	100
Integra	IXO8491	142.1	11.9	59.6	95.0	43.0	30,608	3-Aug	82	3.2	99
Pioneer Hi-Bred Int'l	35F40 (HX1, LL, RR2)	140.0	12.7	58.3	94.0	43.0	34,486	4-Aug	84	39.1	105
Pioneer Hi-Bred Int'l	36V75 (HX1, LL, RR2)	139.6	14.1	55.4	92.0	39.0	32,962	3-Aug	82	14.5	102
Integra	IX08521RB	138.3	12.2	59.0	96.0	44.0	31,023	30-Jul	79	11.0	102
Pioneer Hi-Bred Int'l	35K03	133.6	13.1	60.6	101.0	39.0	33,101	3-Aug	83	39.2	106
Integra	IX08535RBL	127.7	12.7	59.1	91.0	43.0	32,131	3-Aug	82	5.0	103
Integra	IX08485BL	126.8	13.2	58.3	88.0	36.0	29,638	1-Aug	81	4.7	98
Monsanto Company	Dekalb DKC45-79 (VT3)	126.7	12.1	58.5	92.0	37.0	31,993	1-Aug	80	3.9	95
Integra	IX08532VT3	126.5	11.9	59.9	93.0	45.0	29,223	2-Aug	81	12.3	103
Integra	9520RBC	125.6	13.3	58.7	93.0	46.0	34,070	2-Aug	81	36.6	102
Integra	IX08513HXTR	123.7	11.9	57.1	96.0	44.0	34,347	4-Aug	83	6.8	101
Integra	IX08501HXR	122.3	12.8	58.5	93.0	47.0	32,270	4-Aug	83	29.7	100
Integra	IXO8533BL	119.6	12.5	58.5	93.0	41.0	31,162	31-Jul	79	43.2	103

**Table 3B (cont.). New Mexico 2008 Early Season Grain Corn Performance Test - Agricultural Science Center at Farmington**

**Results**

Brand/Company Name	Hybrid/Variety Name	Moisture		Test Weight	Plant Height	Ear Height	Plant Population	Silk Date	Days to Silk	Lodging	Relative Maturity
		Yield	at Harvest								
		bu/a	%	lb/bu	in	in	plants/a		days	%	days
Monsanto Company	Dekalb DKC50-19 (VT3)	118.4	11.6	59.0	88.0	38.0	32,270	30-Jul	79	39.9	100
Integra	9472R	113.5	12.5	57.5	85.0	39.0	27,422	1-Aug	80	1.3	97
Integra	IX08490RBC	112.1	11.9	56.9	97.0	40.0	32,962	1-Aug	80	13.7	99
Monsanto Company	Dekalb DKC49-32 (VT3)	110.6	11.7	57.7	80.0	38.0	33,101	3-Aug	82	12.2	99
Integra	IX07503HXTR	98.6	13.0	58.1	97.0	47.0	33,793	5-Aug	85	52.0	100
Integra	IX08542RC	95.7	13.0	57.9	93.0	41.0	29,638	30-Jul	79	22.2	104
Integra	IXO8492R	94.8	13.2	58.7	84.0	43.0	31,993	3-Aug	82	17.8	99
	Trial Mean	137.5	12.6	58.4	93.3	42.6	31,798	2-Aug	81.3	20.7	101
	LSD	47.6	0.9	1.5	10.2	7.1	3,218	3.6	3.6	15.9	-
	LSD P>	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-
	CV	21.2	4.4	1.6	6.7	10.2	6.0	0.0	2.7	47.0	-
	F Test	0.0044	<0.0001	<0.0001	0.0041	0.0101	0.0037	0.0291	0.0291	<0.0001	-



**Table 4A. New Mexico 2008 Full Season Grain Corn Performance Test - Agricultural Science Center at Farmington**

Investigators: M.K. O'Neill and C.K. Owen

**Test Description**

Location:	Management Practices:	Growing Conditions:																																																																																																																																				
County/Area: San Juan Longitude: -108.3061 Latitude: 36.6812 Elevation: 5,640 ft. Soil Name: Wall Soil Texture: sandy loam Soil Depth: > 75 in.	Previous Crop: onions Planting Date: 14-May Harvest Date: 20-Nov  Production Inputs <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Rate</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td colspan="3">Fertilizer:</td> </tr> <tr> <td>Nitrogen</td> <td>10 lb/a</td> <td>4-Mar</td> </tr> <tr> <td>Nitrogen</td> <td>43 lb/a</td> <td>23-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>20 lb/a</td> <td>27-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>20 lb/a</td> <td>29-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>18 lb/a</td> <td>8-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>18 lb/a</td> <td>14-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>20 lb/a</td> <td>18-Aug</td> </tr> <tr> <td>Nitrogen</td> <td>20 lb/a</td> <td>22-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>20 lb/a</td> <td>25-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>24 lb/a</td> <td>31-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>18 lb/a</td> <td>6-Aug</td> </tr> <tr> <td>P2O5</td> <td>48 lb/a</td> <td>4-Mar</td> </tr> <tr> <td>K2O</td> <td>56 lb/a</td> <td>4-Mar</td> </tr> <tr> <td>Zn</td> <td>3.6 lb/a</td> <td>4-Mar</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Guardsman Max</td> <td>3 pt/a</td> <td>20-Jun</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td colspan="3">None</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	10 lb/a	4-Mar	Nitrogen	43 lb/a	23-Jun	Nitrogen	20 lb/a	27-Jun	Nitrogen	20 lb/a	29-Jun	Nitrogen	18 lb/a	8-Jul	Nitrogen	18 lb/a	14-Jul	Nitrogen	20 lb/a	18-Aug	Nitrogen	20 lb/a	22-Jul	Nitrogen	20 lb/a	25-Jul	Nitrogen	24 lb/a	31-Jul	Nitrogen	18 lb/a	6-Aug	P2O5	48 lb/a	4-Mar	K2O	56 lb/a	4-Mar	Zn	3.6 lb/a	4-Mar	Herbicides:			Guardsman Max	3 pt/a	20-Jun	Insecticides:			None			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Average Temp. °F</th> <th style="text-align: center;">Precip. in.</th> <th style="text-align: center;">Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td></td><td></td><td></td></tr> <tr><td>February</td><td></td><td></td><td></td></tr> <tr><td>March</td><td></td><td></td><td></td></tr> <tr><td>April</td><td></td><td></td><td></td></tr> <tr><td>May</td><td style="text-align: center;">56.3</td><td style="text-align: center;">0.25</td><td style="text-align: center;">1.4</td></tr> <tr><td>June</td><td style="text-align: center;">69.8</td><td style="text-align: center;">0.13</td><td style="text-align: center;">4.9</td></tr> <tr><td>July</td><td style="text-align: center;">75.2</td><td style="text-align: center;">0.63</td><td style="text-align: center;">8.1</td></tr> <tr><td>August</td><td style="text-align: center;">74.2</td><td style="text-align: center;">0.53</td><td style="text-align: center;">6.0</td></tr> <tr><td>September</td><td style="text-align: center;">65.8</td><td style="text-align: center;">0.28</td><td style="text-align: center;">4.9</td></tr> <tr><td>October</td><td></td><td></td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> <tr> <td>Seasonal Precipitation:</td> <td></td> <td style="text-align: center;">1.82 in.</td> <td></td> </tr> <tr> <td>Total Irrigation:</td> <td></td> <td style="text-align: center;">25.2 in.</td> <td></td> </tr> <tr> <td>Date of Last Spring Freeze:</td> <td colspan="3" style="text-align: center;">14-May</td> </tr> <tr> <td>Date of First Fall Freeze:</td> <td colspan="3" style="text-align: center;">12-Oct</td> </tr> <tr> <td>Frost Free Period:</td> <td colspan="3" style="text-align: center;">150 days</td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March				April				May	56.3	0.25	1.4	June	69.8	0.13	4.9	July	75.2	0.63	8.1	August	74.2	0.53	6.0	September	65.8	0.28	4.9	October				November				December				Seasonal Precipitation:		1.82 in.		Total Irrigation:		25.2 in.		Date of Last Spring Freeze:	14-May			Date of First Fall Freeze:	12-Oct			Frost Free Period:	150 days		
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<b>Test Design:</b> Replications: 3 Plot Length: 18.5 ft. Rows per Plot: 4 Row Spacing: 34 in. Seeding Rate: 35000 seed/a																																																																																																																																						

**Table 4B. New Mexico 2008 Full Season Grain Corn Performance Test - Agricultural Science Center at Farmington**

**Results**

Brand/Company Name	Hybrid/Variety Name	Moisture		Test Weight	Plant Height	Ear Height	Plant Population	Silk Date	Days to Silk	Lodging	Relative Maturity
		Yield	at Harvest								
		bu/a	%	lb/bu	in	in	plants/a		days	%	days
Monsanto Company	Dekalb DKC64-79 (VT3)	166.6	14.2	59.3	97.0	42.0	33,101	3-Aug	81	46.4	114
Mycogen Seeds	2C727 HX1/LL	158.1	13.9	56.0	95.0	41.0	34,070	4-Aug	82	66.2	112
Eureka Seeds	ES-7548VT3	155.5	15.0	55.7	104.0	47.0	30,054	4-Aug	82	38.2	116
Triumph Seed Co., Inc.	3203CbRR	154.2	12.1	58.5	95.0	45.0	33,932	3-Aug	81	34.8	103
Mycogen Seeds	2R693 HX1/LL	149.8	13.0	60.4	94.0	44.0	33,378	8-Aug	86	33.5	109
Mycogen Seeds	2K718 HX1/LL/RR2	139.6	15.0	54.9	102.0	48.0	32,131	10-Aug	88	13.8	111
Monsanto Company	Dekalb DKC61-69 (VT3)	134.0	13.8	56.1	96.0	43.0	32,270	5-Aug	83	39.0	111
Eureka Seeds	ST-7679RR	132.4	15.0	56.1	104.0	42.0	29,915	9-Aug	87	60.0	116
Mycogen Seeds	2T789 HX1/LL/RR2	123.2	14.6	56.4	93.0	49.0	32,408	9-Aug	87	58.8	113
Triumph Seed Co., Inc.	1109VT3	107.4	14.1	56.7	92.0	43.0	30,469	5-Aug	83	52.6	109
Monsanto Company	Dekalb DKC66-23 (RR2/YGCB)	99.8	15.0	56.5	95.0	40.0	33,239	6-Aug	85	68.2	116
Eureka Seeds	ESX-7133	96.0	16.0	56.8	99.0	44.0	29,638	8-Aug	86	76.2	116
Eureka Seeds	ES-7654RR	63.9	15.9	55.3	90.0	41.0	31,577	9-Aug	88	78.6	118
Trial Mean		129.3	14.4	56.8	96.6	43.8	32,014	6-Aug	85	51.3	113
LSD		50.6	1.2	1.5	NS	NS	2,208	2.3	2.3	28.8	-
LSD P>		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-
CV		23.2	4.8	1.6	8.8	8.2	4.1	0.0	1.6	33.3	-
F Test		0.0103	<0.0001	<0.0001	0.6240	0.0977	0.0013	<0.0001	<0.0001	0.0030	-



**Table 5B. New Mexico 2008 Grain Corn Performance Test - Agricultural Science Center at Los Lunas**

**Results**

Brand/Company Name	Hybrid/Variety Name	Moisture		Test Weight	Plant Height	Ear Height	Half Silk Date	Lodging
		Grain Yield	at Harvest					
		bu/a	%	lb/bu	in.	in.		%
Mycogen Seeds	2T804 HX1/LL/RR2	297.7	17.0	57.6	105.3	54.0	25-Jul	0
Mycogen Seeds	2T789 HX1/LL/RR2	285.4	17.1	57.8	104.5	53.3	24-Jul	0
Mycogen Seeds	2W814 HX1/LL/RR2	282.7	17.5	56.8	106.8	54.3	24-Jul	0
Mycogen Seeds	2M797 HX1/LL	278.2	16.5	57.1	105.5	51.0	24-Jul	0
Mycogen Seeds	2T826 HX1/LL/RR2	276.0	17.4	56.6	104.8	50.5	28-Jul	0
Eureka Seeds	ES-7548VT3	275.9	17.5	55.0	104.0	50.8	22-Jul	0
Eureka Seeds	ESX-7133	231.2	17.0	58.4	104.5	51.3	22-Jul	0
	Trial Mean	275.3	17.2	57.1	105.0	52.1	24-Jul	0
	LSD	NS	NS	0.8	NS	NS	1.3	-
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	-
	CV	10.7	6.1	1.0	3.5	5.7	0.0	-
	F Test	0.1176	0.8466	<0.0001	0.9541	0.3577	<0.0001	-

**Table 6A. New Mexico 2008 Limited Irrigated Grain Sorghum Performance Test - Agricultural Science Center at Clovis**

**Investigators:** R.E. Kirksey, M.A. Marsalis, A. Scott, and B. Niece

**Test Description**

<b>Location:</b>	<b>Management Practices:</b>	<b>Growing Conditions:</b>																																																																																																						
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**Table 6B. New Mexico 2008 Grain Sorghum Limited Irrigation Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid/Variety Name	Grain Yield bu/a	Grain Yield lb/a	Moisture at	Test Weight lb/bu	Plant Height in	Head	Heading Date
				Harvest %			Exertion in	
Sorghum Partners, Inc.	X 510	62.0	3472	12.4	55.7	35.5	2.3	23-Aug
Dyna-Gro/UAP	DG 752B	58.9	3296	11.9	54.7	35.5	2.5	25-Aug
Sorghum Partners, Inc.	NK 7633	57.2	3200	12.2	55.1	33.4	3.0	23-Aug
Sorghum Partners, Inc.	NK 5418	56.9	3187	11.5	55.6	33.4	3.8	19-Aug
Dyna-Gro/UAP	DG 762B	52.6	2944	11.5	54.9	35.4	3.3	19-Aug
Dyna-Gro/UAP	DG 772B	47.1	2635	12.3	55.0	36.8	2.9	21-Aug
Sorghum Partners, Inc.	NK 7655	39.3	2201	11.9	53.6	37.5	1.6	26-Aug
	Trial Mean	53.4	2991	11.9	54.9	35.4	2.7	22-Aug
	LSD	NS	NS	0.4	NS	2.0	NS	2.3
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	21.5	21.5	2.5	2.4	3.8	35.1	0.7
	F Test	0.1429	0.1429	0.0013	0.3986	0.0026	0.0811	<0.0001

**Tabel 7A. New Mexico 2008 Dryland Grain Sorghum Performance Test - Agricultural Science Center at Clovis**

Investigators: M.A. Marsalis, A. Scott, and B. Niece

**Test Description**

Location:	Management Practices:	Growing Conditions:																																																																																		
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**Table 7B. New Mexico 2008 Dryland Grain Sorghum Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid	Maturity Class	Yield lb/a	Yield bu/a	Test Weight lb/bu	Head Date	Plant Height in.	Head Exsertion in.	Moisture %
Pioneer Hi-Bred Int'l	86G32	ME	6517	116.4	57.7	18-Aug	33.5	2.2	12.2
DeKalb	DeKalb DKS37-07	ME	6211	110.9	59.5	14-Aug	34.8	3.0	12.6
Pioneer Hi-Bred Int'l	86G32	ME	6190	110.5	57.8	21-Aug	32.0	1.6	12.1
Asgrow	Asgrow Pulsar	E	5816	103.9	58.0	21-Aug	33.6	5.0	12.7
Pioneer Hi-Bred Int'l	85G46	M	5712	102.0	59.5	12-Aug	33.2	2.0	12.3
Sorghum Partners, Inc.	NK5418	M	5632	100.6	59.2	19-Aug	32.0	3.9	12.3
Sorghum Partners, Inc.	X 510	M	5606	100.1	58.0	12-Aug	34.6	3.3	12.7
Sorghum Partners, Inc.	KS585	M	5586	99.7	60.0	16-Aug	32.5	2.2	12.6
DeKalb	DeKalb DK44	M	5532	98.8	59.8	13-Aug	35.2	2.9	12.4
Tx. Agri. Exp. Stat.	ATx2752 x RTx430	ML	5503	98.3	55.8	13-Aug	37.4	1.8	13.2
Sorghum Partners, Inc.	NK4420	ME	5460	97.5	57.9	14-Aug	32.8	3.0	12.5
Dyna-Gro/UAP	DG 762B	M	5390	96.3	58.2	13-Aug	36.9	3.4	12.6
NC+ Hybrids Inc.	NC+ 7C22	M	5293	94.5	59.0	15-Aug	35.7	3.7	12.3
DeKalb	DeKalb DKS29-28	E	5164	92.2	59.3	15-Aug	27.8	2.2	12.1
Dyna-Gro/UAP	DG 752B	M	4994	89.2	55.3	14-Aug	35.3	2.6	12.7
NC+ Hybrids Inc.	NC+ 5B89	E	4976	88.9	58.8	21-Aug	30.3	1.2	12.1
Pioneer Hi-Bred Int'l	85G03	M	4974	88.8	57.4	12-Aug	37.5	2.5	12.9
Sorghum Partners, Inc.	NK7633	ML	4945	88.3	57.2	14-Aug	37.7	4.5	13.1
Tx. Agri. Exp. Stat.	ATx378 x RTx430	ML	4930	88.0	55.0	16-Aug	40.6	3.0	13.3
Pioneer Hi-Bred Int'l	85G46	M	4868	86.9	59.6	17-Aug	33.2	1.2	12.1
Triumph Seed Co., Inc.	TR463	M	4863	86.8	55.7	13-Aug	39.4	3.1	13.0
Triumph Seed Co., Inc.	TR458	M	4784	85.4	58.6	11-Aug	35.6	4.1	12.7
Triumph Seed Co., Inc.	TR459	M	4783	85.4	59.2	13-Aug	34.5	4.7	12.9
Triumph Seed Co., Inc.	TR438	ME	4778	85.3	57.6	12-Aug	36.4	3.0	12.6
Tx. Agri. Exp. Stat.	ATx631 x RTx436	ML	4716	84.2	56.1	12-Aug	41.5	4.3	14.4



**Table 7B (cont.). New Mexico 2008 Dryland Grain Sorghum Performance Test - Agricultural Science Center at Clovis**

**Results**

<b>Brand/Company Name</b>	<b>Hybrid</b>	<b>Maturity Class</b>	<b>Yield</b>	<b>Yield</b>	<b>Test Weight</b>	<b>Head Date</b>	<b>Plant Height</b>	<b>Head Exsertion</b>	<b>Moisture</b>
			lb/a	bu/a	lb/bu		in.	in.	%
Dyna-Gro/UAP	DG 772B	M	4685	83.7	56.6	10-Aug	37.0	3.7	13.0
Sorghum Partners, Inc.	NK7829	ML	4633	82.7	57.5	21-Aug	38.7	3.8	12.4
Tx. Agri. Exp. Stat.	ATx399 x RTx430	ML	4630	82.7	54.1	12-Aug	35.0	1.4	12.5
Sorghum Partners, Inc.	NK 7633	ML	4624	82.6	55.5	14-Aug	36.6	4.6	12.6
Triumph Seed Co., Inc.	TRX02783	M	4587	81.9	58.3	14-Aug	36.1	4.5	12.4
DeKalb	DeKalb DK39Y	ME	4571	81.6	57.8	11-Aug	31.8	5.0	12.5
NC+ Hybrids Inc.	NC+ 6B50	ME	4502	80.4	56.6	16-Aug	35.0	3.1	12.6
Pioneer Hi-Bred Int'l	85G03	M	4470	79.8	56.6	21-Aug	39.0	2.2	13.2
NC+ Hybrids Inc.	NC+ 5B37	E	4292	76.7	59.0	16-Aug	31.1	2.5	12.5
DeKalb	DeKalb DK28E	E	4229	75.5	58.9	17-Aug	28.0	1.7	12.5
Sorghum Partners, Inc.	NK6638	M	4221	75.4	56.2	11-Aug	38.1	2.8	12.5
DynaGro Seed	DG 762B	M	4192	74.9	56.6	15-Aug	34.8	2.8	12.7
Sorghum Partners, Inc.	KS310	E	4139	73.9	58.5	17-Aug	29.1	2.9	12.3
DynaGro Seed	DG 754B	M	4052	72.4	57.7	14-Aug	33.6	2.2	12.8
DynaGro Seed	DG 758B	M	3728	66.6	53.5	14-Aug	37.8	2.5	13.7
Sorghum Partners, Inc.	SP3303	ME	3224	57.6	59.2	13-Aug	30.7	2.2	12.3
	Trial Mean		4927	88.0	57.6	15-Aug	34.8	3.0	12.7
	LSD		1124	20.1	1.8	NS	2.4	1.3	0.7
	LSD P >		0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV		14.0	14.0	2.0	2.3	4.3	27.6	3.2
	F Test		<0.0001	<0.0001	<0.0001	0.3535	<0.0001	<0.0001	<0.0001



**Table 8B. New Mexico 2008 Forage Corn Performance Test - Agricultural Science Center at Artesia**

**Results**

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	NDFD			Ash	NE <sub>l</sub>	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage	at Harvest		NDF	48hr	Starch				
		t/a	t/a	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
Mycogen Seeds	2N804 HX1/LL/RR2	8.6	29.4	70.6	9.8	60.6	61.2	9.7	6.2	0.56	2391	20589
Integra	IX07676HX	8.4	26.9	69.0	8.7	54.4	58.7	21.1	5.4	0.56	2390	20055
Dairyland Seed Co., Inc.	Dairyland DST-11914	7.6	25.6	70.4	9.6	58.8	57.3	13.7	6.4	0.54	2239	16959
Golden Acres Genetics	GA 28Z89	7.5	23.4	67.8	10.3	56.9	59.1	14.7	6.2	0.56	2366	17879
Mycogen Seeds	2H917 RR2	7.4	25.1	70.3	8.9	60.4	59.0	13.1	5.9	0.54	2277	16827
United Agri-Products	CX06517	7.3	23.9	69.5	9.4	59.0	58.4	13.1	6.2	0.55	2285	16659
Golden Acres Genetics	GA 2841RRB	7.2	24.9	71.1	9.5	56.8	58.4	16.6	6.1	0.55	2329	16828
Dyna-Gro/UAP	DG 58P59	7.2	25.7	72.0	9.4	55.8	58.9	17.4	5.8	0.56	2383	17187
Integra	IX07651 VT3	7.1	20.2	65.0	9.6	53.9	60.1	21.7	5.4	0.57	2425	17117
Integra	9691 VT3	6.9	24.3	71.8	9.5	62.5	60.1	10.4	6.4	0.54	2259	15565
Integra	9701 RBC	6.9	22.8	69.9	9.9	61.7	58.0	9.6	6.2	0.54	2219	15223
Integra	9681R	6.8	26.9	74.8	9.8	63.7	56.1	10.4	6.8	0.51	2058	14012
Integra	9674 RB	6.7	23.5	71.7	9.1	57.3	56.8	15.8	5.8	0.55	2290	15255
Integra	IX08650 VT3	6.6	22.9	71.4	10.4	59.2	57.5	11.1	6.0	0.55	2300	15092
Mycogen Seeds	2L844 RR2	6.5	23.8	72.7	9.4	64.5	57.1	8.7	6.5	0.52	2091	13720
Dairyland Seed Co., Inc.	Dairyland ST-9116	6.4	16.1	59.9	8.4	53.7	60.0	24.0	4.9	0.57	2433	15497
Mycogen Seeds	2Q733 HX1/HXRW/LL	6.3	19.3	67.3	9.8	56.4	57.8	15.8	6.8	0.55	2274	14183
Eureka Seeds	ST 7634RR	6.2	22.9	73.1	9.7	62.7	59.4	10.0	6.5	0.53	2214	13732
Dyna-Gro/UAP	DG 58P27	6.2	24.5	74.9	10.3	62.7	56.8	9.4	6.9	0.52	2107	13043
Eureka Seeds	ESX-7133	6.1	20.8	70.5	10.0	57.6	58.4	16.0	5.5	0.55	2339	14445
Integra	IX07640BC	6.1	17.4	63.6	9.8	57.9	57.8	16.5	5.8	0.55	2287	14062
Mycogen Seeds	2Q759 HX1/HXRW/LL/RR2	6.1	16.6	63.2	9.6	58.9	60.7	15.9	6.0	0.55	2325	14113
Dairyland Seed Co., Inc.	Dairyland ST-9114	6.1	20.2	70.1	9.4	56.5	58.1	17.4	5.9	0.55	2325	14238
Mycogen Seeds	2Q716 HX1/HXRW/LL/RR2	5.8	17.2	66.2	9.4	62.0	60.0	12.5	6.2	0.54	2247	13064
Dyna-Gro/UAP	DG 58K81	5.7	19.1	70.5	10.0	63.1	58.8	7.4	6.4	0.53	2205	12551
	Trial Mean	6.8	22.5	69.5	9.6	59.1	58.6	14.1	6.1	0.54	2282	15516
	LSD	1.2	3.6	3.4	0.7	3.6	2.2	4.3	0.6	0.0	153	3181
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	12.4	11.5	3.5	5.2	4.3	2.7	21.8	7.3	2.9	4.7	14.5
	F Test	0.0001	0.0001	0.0001	0.0001	0.0001	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001

**Table 9A. New Mexico 2008 Forage Corn Performance Test - Agricultural Science Center at Clovis**

Investigators: M.A. Marsalis, R.E. Kirksey, B. Niece, and A. Scott

**Test Description**

Location:	Management Practices:	Growing Conditions:																																																																																					
County/Area: Curry Longitude: -103.22 Latitude: 34.60 Elevation: 4435 ft. Soil Name: Olton Soil Texture: clay loam Soil Depth: >60 in.	Previous Crop: fallow Planting Date: 24-Apr Harvest Date: 4-Sep  Production Inputs <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Rate</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td colspan="3">Fertilizer:</td> </tr> <tr> <td>Nitrogen</td> <td style="text-align: center;">270 lb/a</td> <td style="text-align: center;">28-Feb</td> </tr> <tr> <td>P<sub>2</sub>O<sub>5</sub></td> <td style="text-align: center;">60 lb/a</td> <td style="text-align: center;">28-Feb</td> </tr> <tr> <td>S</td> <td style="text-align: center;">45 lb/a</td> <td style="text-align: center;">28-Feb</td> </tr> <tr> <td>Zn</td> <td style="text-align: center;">1 lb/a</td> <td style="text-align: center;">28-Feb</td> </tr> <tr> <td>B</td> <td style="text-align: center;">2 lb/a</td> <td style="text-align: center;">28-Feb</td> </tr> </tbody> </table> Herbicides:  <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Bicep Lite II Mag</td> <td style="text-align: center;">3 pt/a</td> <td style="text-align: center;">26-Apr</td> </tr> <tr> <td>Dual II Mag</td> <td style="text-align: center;">0.5 pt/a</td> <td style="text-align: center;">18-Jun</td> </tr> </tbody> </table> Insecticides:  <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Onager</td> <td style="text-align: center;">8 oz/a</td> <td style="text-align: center;">18-Jun</td> </tr> <tr> <td>Intrepid 2 F</td> <td style="text-align: center;">8 oz/a</td> <td style="text-align: center;">9-Aug</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	270 lb/a	28-Feb	P <sub>2</sub> O <sub>5</sub>	60 lb/a	28-Feb	S	45 lb/a	28-Feb	Zn	1 lb/a	28-Feb	B	2 lb/a	28-Feb	Bicep Lite II Mag	3 pt/a	26-Apr	Dual II Mag	0.5 pt/a	18-Jun	Onager	8 oz/a	18-Jun	Intrepid 2 F	8 oz/a	9-Aug	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Average Temp. °F</th> <th style="text-align: center;">Precip. in.</th> <th style="text-align: center;">Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td></td><td></td><td></td></tr> <tr><td>February</td><td></td><td></td><td></td></tr> <tr><td>March</td><td style="text-align: center;">46.9</td><td style="text-align: center;">0.10</td><td></td></tr> <tr><td>April</td><td style="text-align: center;">53.7</td><td style="text-align: center;">0.73</td><td style="text-align: center;">0.80</td></tr> <tr><td>May</td><td style="text-align: center;">62.5</td><td style="text-align: center;">1.75</td><td style="text-align: center;">1.30</td></tr> <tr><td>June</td><td style="text-align: center;">75.5</td><td style="text-align: center;">3.95</td><td style="text-align: center;">6.55</td></tr> <tr><td>July</td><td style="text-align: center;">73.0</td><td style="text-align: center;">4.74</td><td style="text-align: center;">4.20</td></tr> <tr><td>August</td><td style="text-align: center;">73.0</td><td style="text-align: center;">3.56</td><td style="text-align: center;">5.60</td></tr> <tr><td>September<sup>†</sup></td><td style="text-align: center;">64.8</td><td style="text-align: center;">0.39</td><td></td></tr> <tr><td>October</td><td></td><td></td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table> <sup>†</sup> Sept. 1-4  Seasonal Precipitation: 15.2 in. Total Irrigation: 18.5 in.  Date of Last Spring Frost: 11-May Date of First Fall Frost: 23-Oct Frost Free Period: 165 days		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March	46.9	0.10		April	53.7	0.73	0.80	May	62.5	1.75	1.30	June	75.5	3.95	6.55	July	73.0	4.74	4.20	August	73.0	3.56	5.60	September <sup>†</sup>	64.8	0.39		October				November				December			
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<b>Test Design:</b> Replications: 4 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 32000 seeds/a																																																																																							

**Table 9B. New Mexico 2008 Forage Corn Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	NDF	NDFD		Ash	NE <sub>1</sub>	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage	at Harvest			48hr	Starch				
		t/a	t/a	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
Dairyland Seed Co., Inc.	Dairyland DST-11914	11.4	34.4	66.9	9.2	47.3	59.8	26.5	4.6	0.61	2695	30602
Triumph Seed Co., Inc.	6523X	11.1	33.5	66.6	8.5	45.6	61.3	29.5	4.0	0.62	2767	30713
Triumph Seed Co., Inc.	1802CbRR	11.1	33.1	66.6	8.5	46.6	60.1	27.9	4.2	0.61	2720	30038
Grand Valley Hybrids	24B57H	11.0	33.8	67.5	8.2	47.3	58.3	27.9	4.0	0.61	2671	29347
Monsanto Company	Dekalb DKC67-87 (RR2/YGCB)	10.9	32.0	66.0	8.9	44.7	58.1	29.8	3.8	0.62	2744	29878
Integra	9701 RBC	10.9	31.0	64.9	8.0	48.2	61.2	27.3	4.1	0.61	2714	29432
Mycogen Seeds	2N804 HX1/LL/RR2	10.9	34.7	68.7	8.8	48.1	60.0	24.7	4.6	0.60	2667	28930
Dyna-Gro/UAP	DG 58K81	10.8	30.2	64.1	8.4	43.9	60.2	31.8	4.0	0.62	2762	29754
Grand Valley Hybrids	26T50P	10.5	34.0	69.2	8.4	48.4	57.9	26.7	4.4	0.60	2624	27563
Golden Acres Genetics	GA 28Z89	10.3	32.0	67.6	9.2	46.7	59.3	26.6	4.8	0.60	2674	27594
Eureka Seeds	ST 7634RR	10.3	31.4	67.2	8.9	46.8	60.8	28.0	4.1	0.62	2760	28317
Mycogen Seeds	2H917 RR2	10.2	32.8	68.8	8.7	48.6	60.9	24.7	4.0	0.61	2745	28073
Golden Acres Genetics	GA 2841RRB	10.0	30.3	66.9	8.0	42.1	58.5	34.8	4.0	0.62	2747	27449
Integra	9682R	10.0	31.9	68.7	8.6	47.9	61.4	27.3	4.2	0.61	2713	27045
Integra	9674 RB	9.9	29.1	66.0	8.1	40.5	60.8	35.3	3.6	0.63	2876	28483
Dyna-Gro/UAP	DG 58P27	9.9	31.7	68.9	8.7	45.6	59.0	28.5	4.6	0.61	2710	26750
Mycogen Seeds	2L844 RR2	9.8	32.1	69.7	8.2	49.2	58.6	25.8	4.2	0.60	2623	25707
Dyna-Gro/UAP	DG 58P59	9.7	29.7	67.3	8.2	41.3	60.4	35.3	3.6	0.63	2829	27417
Mycogen Seeds	2Q733 HX1/HXRW/LL	9.7	28.8	66.3	9.0	44.5	57.7	29.1	4.5	0.61	2691	26038
Integra	9691 VT3	9.4	29.2	67.9	8.8	47.9	59.7	26.2	4.1	0.61	2722	25508
Eureka Seeds	ESX-7133	9.3	27.2	65.6	9.7	43.7	60.2	29.0	4.0	0.63	2823	26362
Mycogen Seeds	2Q759 HX1/HXRW/LL/RR2	9.3	25.6	63.9	8.6	43.2	61.4	31.4	4.1	0.62	2815	26088
Grand Valley Hybrids	X7H110	9.1	27.7	67.2	8.5	46.3	58.7	28.2	3.6	0.62	2747	24881
Dairyland Seed Co., Inc.	Dairyland ST-9116	9.0	23.5	61.7	8.1	41.4	62.1	34.8	3.5	0.63	2879	25965
Eureka Seeds	ST 7679RR	9.0	24.9	63.9	8.1	40.5	61.9	37.0	2.9	0.64	2926	26327

**Table 9B (cont.). New Mexico 2008 Forage Corn Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	NDF	NDFD 48hr	Starch	Ash	NE <sub>i</sub>	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage	at Harvest								
		t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a
Triumph Seed Co., Inc.	TRX8892RR	8.7	28.5	69.4	8.7	49.7	60.4	23.8	4.2	0.61	2693	23488
Mycogen Seeds	2Q716 HX1/HXRW/LL/RR2	8.6	24.0	64.4	8.4	44.9	59.9	30.9	4.0	0.62	2759	23626
Monsanto Company	Dekalb DKC61-69 (VT3)	8.4	22.9	63.4	8.7	40.4	58.2	34.8	3.7	0.63	2828	23696
Dairyland Seed Co., Inc.	Dairyland ST-9114	8.2	24.0	65.9	8.7	45.0	56.3	29.7	4.0	0.61	2685	21991
Integra	IX07651 VT3	7.9	29.9	74.4	8.5	45.9	58.3	27.8	4.0	0.61	2716	21347
	Trial Mean	9.8	29.8	66.9	8.6	45.4	59.7	29.4	4.1	0.62	2744	26947
	LSD	1.7	4.0	4.3	0.6	2.2	2.3	3.1	0.6	0.02	111	4886
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	12.5	9.4	4.6	5.1	3.4	2.8	7.6	10.8	1.8	2.9	12.9
	F Test	0.0011	<0.0001	0.0006	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0066



**Table 10B. New Mexico 2008 Forage Corn Performance Test - Agricultural Science Center at Farmington**

**Results**

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	NDF	NDFD		Ash	TDN	NE <sub>l</sub>	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage	at Harvest			48hr	Starch					
		t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
Mycogen Seeds	2Q716 HX1/HXRW/LL/RR2	9.2	28.2	67.4	9.0	37.9	63.4	35.1	4.2	67.1	0.64	2922	27035
Eureka Seeds	ST 7634RR	8.9	32.0	72.2	9.1	40.8	63.8	30.2	4.6	66.3	0.63	2846	25383
Mycogen Seeds	2M695 HX1/HXRW/LL/RR2	8.1	25.5	68.4	8.7	37.9	61.3	35.1	4.5	66.2	0.63	2865	23230
Mycogen Seeds	2Q759 HX1/HXRW/LL/RR2	7.9	26.6	70.6	9.4	39.5	65.6	30.8	4.8	66.0	0.62	2814	22274
Eureka Seeds	ESX-7133	7.8	26.8	70.7	10.1	38.8	64.1	31.5	4.3	66.8	0.63	2893	22668
Mycogen Seeds	2Q733 HX1/HXRW/LL	7.6	27.8	72.4	9.3	41.0	65.1	26.7	5.0	65.3	0.61	2757	21054
Mycogen Seeds	2N804 HX1/LL/RR2	7.4	30.2	75.4	9.4	49.5	65.5	17.7	5.2	63.3	0.58	2573	19038
Mycogen Seeds	2L844 RR2	7.3	29.3	75.0	8.5	50.2	65.3	18.5	4.8	63.4	0.58	2578	18932
	Trial Mean	8.0	28.3	71.5	9.2	42.0	64.3	28.2	4.7	65.5	0.62	2781	22452
	LSD	NS	NS	2.8	0.7	3.4	NS	4.5	0.5	1.9	0.02	144	NS
	LSD P>	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	18.4	13.6	2.7	5.0	5.4	3.9	10.8	7.9	2.0	2.3	3.5	19.7
	F Test	0.5383	0.3386	0.0010	0.0027	<0.0001	0.3012	<0.0001	0.0145	0.0016	<0.0001	0.0001	0.1787



**Table 11A. New Mexico 2008 Forage Corn Performance Test - Agricultural Science Center at Los Lunas**

Investigators: M. Place, L. Swanick, and M.A. Marsalis

**Test Description**

<p><b>Location:</b>                  County/Area: Valencia                  Longitude: -106.45                  Latitude: 34.46                  Elevation: 4840 ft.                  Soil Name: Gila                  Soil Texture: Clay loam                  Soil Depth: 60 in</p>	<p><b>Management Practices:</b>                  Previous Crop: Winter - wheat; summer - fallow                  Planting Date: 19-May                  Harvest Date(s): 16-Sep                  18-Sep</p>	<p><b>Growing Conditions:</b></p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Flood Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>31.6</td><td>0.31</td><td></td></tr> <tr><td>February</td><td>39.2</td><td>0.24</td><td></td></tr> <tr><td>March</td><td>46.5</td><td>0.01</td><td></td></tr> <tr><td>April</td><td>53.1</td><td>0.00</td><td></td></tr> <tr><td>May</td><td>62.9</td><td>1.05</td><td>3.00</td></tr> <tr><td>June</td><td>75.2</td><td>0.63</td><td>6.00</td></tr> <tr><td>July</td><td>77.6</td><td>1.65</td><td>6.00</td></tr> <tr><td>August</td><td>76.0</td><td>1.60</td><td>6.00</td></tr> <tr><td>September</td><td>68.0</td><td>0.17</td><td></td></tr> <tr><td>October</td><td>56.5</td><td>1.22</td><td></td></tr> <tr><td>November '07</td><td>46.6</td><td>0.10</td><td></td></tr> <tr><td>December '07</td><td>35.7</td><td>1.23</td><td></td></tr> <tr><td colspan="2">Seasonal Precipitation:</td><td>4.5 in.</td><td></td></tr> <tr><td colspan="2">Total Irrigation:</td><td>21.0 in.</td><td></td></tr> <tr><td colspan="2">Date of Last Spring Frost:</td><td>3-May</td><td></td></tr> <tr><td colspan="2">Date of First Fall Frost:</td><td>13-Oct</td><td></td></tr> <tr><td colspan="2">Frost Free Period:</td><td>163 days</td><td></td></tr> </tbody> </table>		Average Temp. °F	Precip. in.	Flood Irrigation in.	January	31.6	0.31		February	39.2	0.24		March	46.5	0.01		April	53.1	0.00		May	62.9	1.05	3.00	June	75.2	0.63	6.00	July	77.6	1.65	6.00	August	76.0	1.60	6.00	September	68.0	0.17		October	56.5	1.22		November '07	46.6	0.10		December '07	35.7	1.23		Seasonal Precipitation:		4.5 in.		Total Irrigation:		21.0 in.		Date of Last Spring Frost:		3-May		Date of First Fall Frost:		13-Oct		Frost Free Period:		163 days	
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Frost Free Period:		163 days																																																																								
<p><b>Test Design:</b>                  Replications: 4                  Plot Length: 10 ft.                  Rows per Plot: 2                  Row Spacing: 30 in.                  Seeding Rate: 30000 seed/a</p>	<p><b>Production Inputs</b></p> <table border="1"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> </thead> <tbody> <tr><td colspan="3"><b>Fertilizer:</b></td></tr> <tr><td>33-0-0-11</td><td>130 lb/a</td><td>8-May</td></tr> <tr><td>33-0-0-11</td><td>500 lb/a</td><td>19-Jun</td></tr> <tr><td>Total:</td><td>N P K S</td><td></td></tr> <tr><td></td><td>208 0 0 69</td><td></td></tr> <tr><td colspan="3"><b>Herbicides:</b></td></tr> <tr><td>Atrazine</td><td>3 pt/a</td><td>20-Jun</td></tr> <tr><td>Distinct</td><td>5 oz/a</td><td>20-Jun</td></tr> <tr><td>Pounce</td><td>6 oz/a</td><td>20-Jun</td></tr> </tbody> </table>		Rate	Date	<b>Fertilizer:</b>			33-0-0-11	130 lb/a	8-May	33-0-0-11	500 lb/a	19-Jun	Total:	N P K S			208 0 0 69		<b>Herbicides:</b>			Atrazine	3 pt/a	20-Jun	Distinct	5 oz/a	20-Jun	Pounce	6 oz/a	20-Jun																																											
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**Table 11B. New Mexico 2008 Forage Corn Performance Test - Agricultural Science Center at Los Lunas**

**Results**

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	NDF	NDFD		Ash	Fat	TDN	NE <sub>i</sub>	Milk per Ton	Milk per Acre
		Dry Forage	Green Forage	at Harvest			48hr	Starch						
		t/a	t/a	%	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
Mycogen Seeds	2N804 HX1/LL/RR2	14.9	44.4	66.3	7.9	49.3	62.9	29.6	2.9	2.3	64.9	0.61	2737	41017
Monsanto Company	Dekalb DKC67-87 (RR2/YGCB)	14.5	36.8	60.5	7.9	44.9	62.1	34.4	3.2	2.7	65.4	0.62	2783	40405
Eureka Seeds	ST 7634RR	13.9	38.6	63.9	7.6	44.4	63.1	37.8	2.3	2.7	66.1	0.63	2834	39327
Mycogen Seeds	2Q759 HX1/HXRW/LL/RR2	13.4	33.6	60.0	8.1	39.8	61.7	40.5	1.9	2.8	67.0	0.64	2925	39142
Mycogen Seeds	2Q733 HX1/HXRW/LL	13.5	36.0	62.4	8.4	42.8	63.0	34.8	3.2	2.6	66.4	0.63	2857	38717
Monsanto Company	Dekalb DKC61-69 (VT3)	13.1	33.6	61.1	80.7	38.6	60.1	40.9	2.3	3.0	66.7	0.64	2913	37972
Mycogen Seeds	2L844 RR2	13.6	41.0	66.9	7.4	46.1	61.4	34.4	2.7	2.5	64.7	0.61	2743	37604
Eureka Seeds	ESX-7133	11.7	30.6	61.7	8.4	41.2	60.7	39.0	2.2	2.8	66.2	0.63	2869	33592
Mycogen Seeds	2Q716 HX1/HXRW/LL/RR2	11.8	31.2	62.3	7.6	45.1	62.5	35.5	2.9	2.7	65.4	0.62	2786	33018
Mycogen Seeds	2M695 HX1/HXRW/LL/RR2	11.3	28.7	60.6	7.9	42.5	60.7	38.2	2.4	2.9	65.9	0.63	2842.5	32041
	Trial Mean	13.2	35.4	62.6	7.9	43.5	61.8	36.5	2.6	2.7	65.9	0.63	2829	37284
	LSD	1.9	4.2	2.2	0.5	3.4	NS	4.3	0.8	0.2	NS	0.01	101	5886
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	9.8	8.2	2.4	4.0	5.4	3.9	8.2	20.4	5.9	1.6	1.6	2.5	10.9
	F Test	0.0051	<0.0001	<0.0001	0.0014	<0.0001	0.5960	0.0004	0.0189	0.0001	0.0860	0.0007	0.0048	0.0307

**Table 12A. New Mexico 2008 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Artesia**

**Investigators:** F.E. Contreras-Govea and L. Carrasco

**Test Description**

<b>Location:</b>	<b>Management Practices:</b>	<b>Growing Conditions:</b>
County/Area: Eddy	Previous Crop: Cotton	
Longitude: -104.38	Planting Date: 22-May	
Latitude: 32.75	Harvest Date: 25-Aug	
Elevation: 3348 ft		
Soil Name: Reagan		
Soil Texture: loam		
Soil Depth: >80 in.		
	<b>Production Inputs:</b>	
	<u>Rate</u> <u>Date</u>	
	<b>Fertilizer:</b>	
	Nitrogen            53 lb/a            23-Apr	
	63 lb/a            17-Jun	
	50 lb/a            28-Jul	
	P2O5                60 lb/a            23-Apr	
	K2O                 40 lb/a            23-Apr	
	<b>Herbicides:</b> none	
	<b>Insecticides:</b>	
	Pounce                8 oz/a            19-Jun	
	Intrepid              4 oz/a            26-Jun	
	Pounce                4 oz/a            26-Jun	
	Silkin                 4 oz/a            26-Jun	
	Intrepid              4 oz/a            2-Jul	
	Silkin                 4 oz/a            2-Jul	
	RSA 7+17% Zn      16 oz/a           2-Jul	
	Oberon                4 oz/a            24-Jul	
<b>Test Design:</b>		
Replications: 4		
Plot Length: 25 ft.		
Rows per Plot: 2		
Row Spacing: 40 in.		
Seeding Rate: 78000 seeds/a		
		<u>Average</u>
		Temp    Precip.    Irrigation
		°F        in.        in.
		January
		February
		March            52.4        0.11
		April             59.0        0.00        2.53
		May              68.9        1.00        1.81
		June             81.0        1.12        3.64
		July              78.2        4.22        1.96
		August          77.5        1.79
		September      68.9        2.23
		October
		Precipitation:    10.5
		Total Irrigation: 9.9
		Date of Last Spring Frost: 19-Apr
		Date of First Fall Frost: 23-Oct
		Frost Free Period: 187

**Table 12B. New Mexico 2008 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Artesia**

**Results**

Brand/Company Name	Hybrid/Variety Name	Sorghum <sup>†</sup> Type	Moisture			CP	NDF	NDFD 48hr	Ash	TDN	NE <sub>l</sub>	Milk/Ton	Milk/Acre
			Dry Forage t/a	Green Forage t/a	at Harvest %								
Scott Seed Co.	S.S. Silage	Conv	8.9	35.8	75.1	7.7	63.5	67.0	5.8	7.0	0.55	2361	21032
Dyna-Gro/UAP	DG 710F	Conv	8.7	32.1	72.6	7.8	56.4	62.6	13.5	7.5	0.55	2314	20148
Scott Seed Co.	BMR Gold I	BMR	6.4	24.0	73.2	8.3	58.8	70.7	7.8	7.1	0.57	2517	16159
Eastern Colorado Seeds, LLC	HP 95 BMR	BMR	6.4	22.1	70.4	8.4	57.9	69.4	7.5	7.8	0.56	2415	15423
Eastern Colorado Seeds, LLC	HP 1010 MS BMR	BMR	4.7	21.9	78.5	9.2	59.5	70.9	6.1	8.3	0.57	2540	11937
Trial Mean			7.0	27.2	74.0	8.3	59.2	68.1	8.1	7.5	0.56	2429	16940
LSD			1.9	8.1	3.0	0.5	4.3	2.1	1.7	0.4	0.0	88	4242
LSD P >			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CV			17.4	19.4	2.7	4.0	4.8	2.0	13.4	3.6	1.7	2.4	16.3
F Test			0.0019	0.0078	0.0011	0.0003	0.0413	0.0001	0.0001	0.0001	0.0043	0.0004	0.0033

<sup>†</sup> Type = Conv = Conventional; BMR = Brown Midrib

**Table 13A. New Mexico 2008 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Clovis**

**Investigators:** M.A. Marsalis, R.E. Kirksey, B. Niece, and A. Scott

**Test Description**

Location:	Management Practices:	Growing Conditions:																																																																									
County/Area: Curry Longitude: -103.22 Latitude: 34.60 Elevation: 4435 ft. Soil Name: Olton Soil Texture: clay loam Soil Depth: >60 in.	Previous Crop: fallow Planting Date: 20-May Harvest Date: 25-Sep  Production Inputs <hr/> <table border="1"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td colspan="3">Fertilizer:</td> </tr> <tr> <td>Nitrogen</td> <td>16 lb/a</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>175 lb/a</td> <td>28-Feb</td> </tr> <tr> <td>P<sub>2</sub>O<sub>5</sub></td> <td>50 lb/a</td> <td>28-Feb</td> </tr> <tr> <td>S</td> <td>3 lb/a</td> <td>28-Feb</td> </tr> <tr> <td>Zn</td> <td>0.75 lb/a</td> <td>28-Feb</td> </tr> </tbody> </table> Herbicides: Atrazine 2 pt/a 20-May Glyphosate 1 qt/a 20-May  Insecticides: Intrepid 2F 8 oz/a 9-Aug		Rate	Date	Fertilizer:			Nitrogen	16 lb/a	carryover	Nitrogen	175 lb/a	28-Feb	P <sub>2</sub> O <sub>5</sub>	50 lb/a	28-Feb	S	3 lb/a	28-Feb	Zn	0.75 lb/a	28-Feb	<table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td></td><td></td><td></td></tr> <tr><td>February</td><td></td><td></td><td></td></tr> <tr><td>March</td><td>46.9</td><td></td><td></td></tr> <tr><td>April</td><td>53.7</td><td>0.73</td><td></td></tr> <tr><td>May</td><td>62.5</td><td>1.75</td><td>1.80</td></tr> <tr><td>June</td><td>75.5</td><td>3.95</td><td>2.90</td></tr> <tr><td>July</td><td>73.0</td><td>4.74</td><td>2.60</td></tr> <tr><td>August</td><td>73.0</td><td>3.56</td><td>5.30</td></tr> <tr><td>September<sup>†</sup></td><td>64.8</td><td>1.02</td><td>2.60</td></tr> <tr><td>October</td><td></td><td></td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table> <hr/> <sup>†</sup> Sept. 1-25  Seasonal Precipitation: 15.8 in. Total Irrigation: 15.2 in.  Date of Last Spring Frost: 11-May Date of First Fall Frost: 23-Oct Frost Free Period: 165 days		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March	46.9			April	53.7	0.73		May	62.5	1.75	1.80	June	75.5	3.95	2.90	July	73.0	4.74	2.60	August	73.0	3.56	5.30	September <sup>†</sup>	64.8	1.02	2.60	October				November				December			
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<b>Test Design:</b> Replications: 3 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in.  Seeding Rate: Non-BMR 100,000 seed/a BMR/Sweet Sorghum 90,000 seed/a Sweet Sorghum 75,000 seed/a																																																																											

**Table 13B. New Mexico 2008 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid/Variety Name	Seeding <sup>†</sup> Rate	Sorghum <sup>‡</sup> Type	Moisture			CP	NDF	NDFD 48hr	Ash	TDN	NE <sub>l</sub>	Milk/ Ton	Milk/ Acre
				Dry Forage	Green Forage	at Harvest								
				t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a
Sorghum Partners, Inc.	SS 405	High	Conv	13.1	35.7	63.3	7.4	56.1	60.4	6.3	60.8	0.57	2429	31858
Forage First	FS-5	High	Conv	10.7	30.9	65.4	7.6	50.3	62.0	6.1	61.7	0.57	2480	26664
Scott Seed Co.	S.S. Silage	High	Conv	10.6	30.6	65.4	7.3	50.4	61.1	6.0	62.8	0.59	2583	27354
Dyna-Gro/UAP	DG 710F	High	Conv	9.1	26.2	65.3	6.9	52.5	60.8	6.1	60.6	0.56	2410	21994
Pioneer Hi-Bred Int'l, Inc.	849F	High	Conv	8.8	24.6	64.5	8.2	51.9	58.6	6.1	61.5	0.58	2505	22200
Sweet Sorghum (Exp.)	TAMS-XH013	Low	Sweet	8.8	27.5	68.2	6.8	47.1	67.4	5.4	62.3	0.57	2474	21834
Sweet Sorghum (Exp.)	TAMS-XH010	Med	Sweet	8.7	27.5	68.3	6.6	49.9	65.8	6.1	62.2	0.57	2474	21590
Sweet Sorghum (Exp.)	TAMS-XH018	Med	Sweet	8.7	26.7	67.3	7.0	46.8	68.7	5.4	62.9	0.57	2509	21868
Sweet Sorghum (Exp.)	TAMS-XH013	Med	Sweet	8.3	27.1	69.2	6.8	49.1	67.7	6.2	61.5	0.55	2400	19984
Sweet Sorghum (Exp.)	TAMS-XH010	Low	Sweet	8.1	25.8	68.4	6.7	46.6	68.5	5.7	61.8	0.56	2421	19724
Sweet Sorghum (Exp.)	TAMS-XH005	Low	Sweet	8.1	24.1	66.9	6.7	46.5	66.7	6.1	60.9	0.55	2366	19179
Eastern Colorado Seeds, LLC	HP 95 BMR	Med	BMR	8.1	21.5	62.4	7.7	53.5	65.0	6.9	63.6	0.59	2592	20882
Coffey Forage Seeds, Inc.	FS 6810	Med	BMR	8.0	25.3	68.4	7.8	47.5	68.0	6.3	63.9	0.58	2588	20819
Sorghum Partners, Inc.	NK 300	High	Conv	7.8	22.4	65.2	7.4	52.7	60.0	7.0	61.5	0.58	2492	19427
Eastern Colorado Seeds, LLC	HP 1010 MS BMR	Med	BMR	7.8	26.8	71.1	8.2	50.9	69.0	6.7	63.8	0.58	2564	19911
Richardson Seed, Ltd.	Dairy Master BMR	Med	BMR	7.7	23.7	67.5	7.5	52.0	71.4	6.1	64.9	0.58	2609	20184
Sorghum Partners, Inc.	HIKANE II	High	Conv	7.6	25.9	70.6	7.4	50.4	65.9	6.5	61.8	0.56	2440	18501
Sweet Sorghum (Exp.)	TAMS-XH018	Low	Sweet	7.2	24.1	69.9	6.9	49.4	68.2	5.9	61.9	0.56	2419	17436
Scott Seed Co.	BMR Gold I	Med	BMR	7.1	20.5	65.7	7.4	53.3	70.0	6.1	64.4	0.58	2584	18240
Sweet Sorghum (Exp.)	TAMS-XH005	Med	Sweet	6.9	23.2	70.1	6.7	49.8	67.6	5.8	61.7	0.56	2415	16717
Trial Mean				8.7	26.5	67.1	7.2	50.4	65.4	6.1	62.3	0.57	2488	21724
LSD				1.7	3.3	4.3	0.7	3.9	3.3	0.7	1.4	0.02	119	4933
LSD P >				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CV				12.1	7.5	3.9	5.7	4.7	3.1	7.2	1.4	2.1	2.9	13.8
F Test				<0.0001	<0.0001	0.0077	0.0001	0.0004	<0.0001	0.0047	<0.0001	0.0032	0.0012	<0.0001

† Seeding rates = High = 100,000; Med = 90,000; Low = 75,000

‡ Type = Conv = Conventional; BMR = Brown Midrib; Sweet = Sweet Sorghum

**Table 14A. New Mexico 2008 Dryland Forage Sorghum Performance Test - Agricultural Science Center at Clovis**

**Investigators:** M.A. Marsalis, R.E. Kirksey, B. Niece, and A. Scott

**Test Description**

Location:	Management Practices:	Growing Conditions:																																																																									
County/Area: Curry Longitude: -103.22 Latitude: 34.60 Elevation: 4435 ft. Soil Name: Olton Soil Texture: clay loam Soil Depth: >60 in.	Previous Crop: fallow Planting Date: 20-May Harvest Date: 25-Sep  Production Inputs <hr/> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Rate</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td colspan="3">Fertilizer:</td> </tr> <tr> <td>Nitrogen</td> <td>51 lb/a</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>60 lb/a</td> <td>20-May</td> </tr> <tr> <td>P<sub>2</sub>O<sub>5</sub></td> <td>lb/a</td> <td></td> </tr> <tr> <td>S</td> <td>lb/a</td> <td></td> </tr> <tr> <td>Zn</td> <td>lb/a</td> <td></td> </tr> </tbody> </table> Herbicides: Atrazine 2 pt/a 20-May Glyphosate 1 qt/a 20-May  Insecticides: Intrepid 2F 8 oz/a 9-Aug		Rate	Date	Fertilizer:			Nitrogen	51 lb/a	carryover	Nitrogen	60 lb/a	20-May	P <sub>2</sub> O <sub>5</sub>	lb/a		S	lb/a		Zn	lb/a		<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Average Temp. °F</th> <th style="text-align: center;">Precip. in.</th> <th style="text-align: center;">Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td></td><td></td><td></td></tr> <tr><td>February</td><td></td><td></td><td></td></tr> <tr><td>March</td><td style="text-align: center;">46.9</td><td></td><td></td></tr> <tr><td>April</td><td style="text-align: center;">53.7</td><td style="text-align: center;">0.73</td><td></td></tr> <tr><td>May</td><td style="text-align: center;">62.5</td><td style="text-align: center;">1.75</td><td></td></tr> <tr><td>June</td><td style="text-align: center;">75.5</td><td style="text-align: center;">3.95</td><td></td></tr> <tr><td>July</td><td style="text-align: center;">73.0</td><td style="text-align: center;">4.74</td><td></td></tr> <tr><td>August</td><td style="text-align: center;">73.0</td><td style="text-align: center;">3.56</td><td></td></tr> <tr><td>September<sup>†</sup></td><td style="text-align: center;">64.8</td><td style="text-align: center;">1.02</td><td></td></tr> <tr><td>October</td><td></td><td></td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table> <hr/> <sup>†</sup> Sept. 1-25  Seasonal Precipitation: 15.8 in. Total Irrigation: 0.0 in.  Date of Last Spring Frost: 11-May Date of First Fall Frost: 23-Oct Frost Free Period: 165 days		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March	46.9			April	53.7	0.73		May	62.5	1.75		June	75.5	3.95		July	73.0	4.74		August	73.0	3.56		September <sup>†</sup>	64.8	1.02		October				November				December			
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May	62.5	1.75																																																																									
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July	73.0	4.74																																																																									
August	73.0	3.56																																																																									
September <sup>†</sup>	64.8	1.02																																																																									
October																																																																											
November																																																																											
December																																																																											
<b>Test Design:</b> Replications: 3 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in.  Seeding Rate: Non-BMR 60,000 seed/a BMR/Sweet Sorghum 60,000 seed/a Sweet Sorghum 45,000 seed/a																																																																											

**Table 14B. New Mexico 2008 Dryland Forage Sorghum Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid/Variety Name	Seeding <sup>†</sup> Rate	Sorghum <sup>‡</sup> Type	Moisture			CP	NDF	NDFD 48hr	Ash	TDN	NE <sub>i</sub>	Milk/ Ton	Milk/ Acre
				Dry Forage	Green Forage	at Harvest								
				t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a
Forage First	FS-5	High	Conv	6.9	18.8	63.3	7.5	46.7	64.2	5.9	62.2	0.57	2502	17291
Sweet Sorghum (Exp.)	TAMS-XH018	High	Sweet	6.4	18.2	64.6	6.2	42.5	71.2	5.4	61.8	0.55	2407	15428
Sweet Sorghum (Exp.)	TAMS-XH010	High	Sweet	5.9	16.5	64.0	6.4	41.5	69.5	5.0	63.0	0.57	2526	14991
Coffey Forage Seeds, Inc.	FS 6810	High	BMR	5.9	17.6	66.8	7.2	42.6	71.5	6.0	63.4	0.57	2534	14862
Sorghum Partners, Inc.	HIKANE II	High	Conv	5.8	16.7	65.1	7.2	45.7	66.6	5.6	63.4	0.58	2577	14939
Dyna-Gro/UAP	DG 710F	High	BMR	5.8	17.2	66.7	7.8	47.7	64.5	6.1	62.1	0.57	2490	14363
Eastern Colorado Seeds, LLC	HP 95 BMR	High	BMR	5.7	15.0	61.6	7.5	47.0	68.7	6.5	64.1	0.58	2599	14922
Sweet Sorghum (Exp.)	TAMS-XH005	High	Sweet	5.7	16.0	64.5	6.2	43.2	71.4	5.3	62.5	0.56	2454	14035
Sweet Sorghum (Exp.)	TAMS-XH013	High	Sweet	5.5	16.4	66.1	6.4	44.2	70.9	5.7	61.9	0.55	2413	13336
Sorghum Partners, Inc.	NK 300	High	Conv	5.4	13.8	60.7	7.3	48.5	63.3	6.2	61.9	0.57	2489	13534
Sweet Sorghum (Exp.)	TAMS-XH013	Low	Sweet	5.4	15.5	65.5	6.1	43.2	70.5	5.4	62.1	0.56	2433	13041
Sweet Sorghum (Exp.)	TAMS-XH018	Low	Sweet	5.1	14.7	65.4	6.0	42.8	73.0	5.2	62.5	0.56	2444	12446
Sweet Sorghum (Exp.)	TAMS-XH005	Low	Sweet	5.0	14.3	65.1	6.4	44.2	69.3	5.5	61.6	0.55	2408	11996
Sweet Sorghum (Exp.)	TAMS-XH010	Low	Sweet	4.8	14.5	66.9	6.2	45.3	70.6	5.3	62.3	0.56	2441	11755
Richardson Seed, Ltd.	Dairy Master BMR	High	BMR	4.5	13.8	67.4	6.8	48.3	75.8	6.2	64.4	0.57	2530	11397
Eastern Colorado Seeds, LLC	HP 1010 MS BMR	High	BMR	4.5	14.8	69.7	7.6	49.5	72.1	7.2	63.9	0.57	2536	11402
Trial Mean				5.6	16.1	65.3	6.9	45.4	69.0	5.8	62.7	0.57	2489	13926
LSD				0.8	2.2	2.7	0.6	3.3	2.6	0.6	1.5	NS	NS	1987
LSD P >				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
CV				8.1	8.1	2.5	4.9	4.4	2.3	6.6	1.4	2.4	3.3	8.6
F Test				<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0069	0.1020	0.1570	<0.0001

<sup>†</sup> Seeding rates = High = 60,000; Low = 45,000

<sup>‡</sup> Type = Conv = Conventional; BMR = Brown Midrib; Sweet = Sweet Sorghum



**Table 15A. New Mexico 2008 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Los Lunas**

Investigators: M. Place, L. Swanick, and M.A. Marsalis

**Test Description**

<p><b>Location:</b>                  County/Area: Valencia                  Longitude: -106.45                  Latitude: 34.46                  Elevation: 4840 ft.                  Soil Name: Gila Clay Loam                  Soil Texture: Clay loam                  Soil Depth: 60 in</p> <p><b>Test Design:</b>                  Replications: 4                  Plot Length: 10 ft.                  Rows per Plot: 2                  Row Spacing: 30 in.                  Seeding Rate: 70000 seed/a</p>	<p><b>Management Practices:</b>                  Previous Crop: Winter - wheat; summer - fallow                  Planting Date: 19-May                  Harvest Date(s): 11-Sep</p> <p><b>Production Inputs</b></p> <table border="1"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td><b>Fertilizer:</b></td> <td></td> <td></td> </tr> <tr> <td></td> <td>33-0-0-11</td> <td>130 lb/a</td> </tr> <tr> <td></td> <td>33-0-0-11</td> <td>500 lb/a</td> </tr> <tr> <td>Total:</td> <td>N    P    K    S</td> <td></td> </tr> <tr> <td></td> <td>208   0    0    69</td> <td></td> </tr> </tbody> </table> <p><b>Herbicides:</b>                  Atrazine                      3 pt/a                      20-Jun</p>		Rate	Date	<b>Fertilizer:</b>				33-0-0-11	130 lb/a		33-0-0-11	500 lb/a	Total:	N    P    K    S			208   0    0    69		<p><b>Growing Conditions:</b></p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Flood Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>31.6</td><td>0.31</td><td></td></tr> <tr><td>February</td><td>39.2</td><td>0.24</td><td></td></tr> <tr><td>March</td><td>46.5</td><td>0.01</td><td></td></tr> <tr><td>April</td><td>53.1</td><td>0.00</td><td></td></tr> <tr><td>May</td><td>62.9</td><td>1.05</td><td>3.00</td></tr> <tr><td>June</td><td>75.2</td><td>0.63</td><td>6.00</td></tr> <tr><td>July</td><td>77.6</td><td>1.65</td><td>6.00</td></tr> <tr><td>August</td><td>76.0</td><td>1.60</td><td>6.00</td></tr> <tr><td>September</td><td>68.0</td><td>0.17</td><td></td></tr> <tr><td>October</td><td>56.5</td><td>1.22</td><td></td></tr> <tr><td>November '07</td><td>46.6</td><td>0.10</td><td></td></tr> <tr><td>December '07</td><td>35.7</td><td>1.23</td><td></td></tr> </tbody> </table> <p>Seasonal Precipitation: 4.5 in.                  Total Irrigation: 21.0 in.</p> <p>Date of Last Spring Frost: 3-May                  Date of First Fall Frost: 13-Oct                  Frost Free Period: 163 days</p>		Average Temp. °F	Precip. in.	Flood Irrigation in.	January	31.6	0.31		February	39.2	0.24		March	46.5	0.01		April	53.1	0.00		May	62.9	1.05	3.00	June	75.2	0.63	6.00	July	77.6	1.65	6.00	August	76.0	1.60	6.00	September	68.0	0.17		October	56.5	1.22		November '07	46.6	0.10		December '07	35.7	1.23	
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**Table 15B. New Mexico 2008 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Los Lunas**

<b>Results</b>													
<b>Brand/Company Name</b>	<b>Hybrid/Variety Name</b>	<b>Dry Forage</b>	<b>Green Forage</b>	<b>Moisture at Harvest</b>	<b>CP</b>	<b>NDF</b>	<b>NDFD 48hr</b>	<b>Ash</b>	<b>TDN</b>	<b>NE<sub>L</sub></b>	<b>Milk per Ton</b>	<b>Milk per Acre</b>	<b>RFQ</b>
		t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
Eastern Colorado Seeds, LLC	HP 95 BMR	8.3	25.5	67.3	7.7	57.9	68.8	6.8	64.9	0.59	2628	21988	110
Eastern Colorado Seeds, LLC	HP 1010 MS BMR	8.1	30.3	73.2	8.5	59.8	71.1	7.6	65.8	0.59	2649	21638	107
	Trial Mean	8.2	27.9	70.2	8.1	58.9	69.9	7.2	65.3	0.59	2638	21813	108
	LSD	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	LSD P>	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	16.5	8.7	4.5	8.4	3.6	2.1	12.8	2.3	2.6	4.0	20.2	5.5
	F Test	0.8477	0.0693	0.0772	0.1810	0.2873	0.1230	0.3171	0.4929	0.9141	0.8012	0.9175	0.6096

**Table 16A. New Mexico 2008 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Tucumcari**

**Investigators:** L.M. Lauriault, R.E. Kirksey, P.L. Cooksey, R. Brake, C. Henson, S. Jennings, and L.F. Perkins

**Test Description**

<b>Location:</b>	<b>Management Practices:</b>	<b>Growing Conditions:</b>																																																																																																		
County/Area: Quay Longitude: -103.69 Latitude: 35.12 Elevation: 4091 ft. Soil Name: Canez Soil Texture: fine sandy loam Soil Depth: >60 in.	Previous Crop: sorghum forage Planting Date: 22-May Harvest Date: 23-Oct  <hr/> <b>Production Inputs</b> <hr/> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 20%; text-align: center;">Rate</th> <th style="width: 20%; text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Fertilizer:</b></td> </tr> <tr> <td style="padding-left: 20px;">Nitrogen</td> <td style="text-align: center;">100 lb/a</td> <td style="text-align: center;">20-May</td> </tr> <tr> <td colspan="3"><b>Herbicides:</b></td> </tr> <tr> <td style="padding-left: 20px;">Aatrex 80W</td> <td style="text-align: center;">2.5 lb/a</td> <td style="text-align: center;">20-May</td> </tr> <tr> <td style="padding-left: 20px;">Clarity</td> <td style="text-align: center;">0.5 pt/a</td> <td style="text-align: center;">16-Jul</td> </tr> </tbody> </table>		Rate	Date	<b>Fertilizer:</b>			Nitrogen	100 lb/a	20-May	<b>Herbicides:</b>			Aatrex 80W	2.5 lb/a	20-May	Clarity	0.5 pt/a	16-Jul	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 15%; text-align: center;">Average Temp. °F</th> <th style="width: 15%; text-align: center;">Precip. in.</th> <th style="width: 10%; text-align: center;">Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td></td><td></td><td></td></tr> <tr><td>February</td><td></td><td></td><td></td></tr> <tr><td>March</td><td></td><td></td><td></td></tr> <tr><td>April</td><td></td><td></td><td></td></tr> <tr><td>May</td><td style="text-align: center;">66.0</td><td style="text-align: center;">2.50</td><td style="text-align: center;">6.00</td></tr> <tr><td>June</td><td style="text-align: center;">79.0</td><td style="text-align: center;">2.04</td><td style="text-align: center;">6.00</td></tr> <tr><td>July</td><td style="text-align: center;">80.0</td><td style="text-align: center;">5.64</td><td></td></tr> <tr><td>August</td><td style="text-align: center;">76.0</td><td style="text-align: center;">3.61</td><td style="text-align: center;">6.00</td></tr> <tr><td>September</td><td style="text-align: center;">69.0</td><td style="text-align: center;">0.58</td><td style="text-align: center;">6.00</td></tr> <tr><td>October</td><td style="text-align: center;">59.0</td><td style="text-align: center;">2.91</td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> <tr><td colspan="4"><hr/></td></tr> <tr> <td style="padding-left: 40px;">Seasonal Precipitation:</td> <td></td> <td style="text-align: center;">17.3 in.</td> <td></td> </tr> <tr> <td style="padding-left: 40px;">Total Irrigation:</td> <td></td> <td style="text-align: center;">24.0 in.</td> <td></td> </tr> <tr><td colspan="4"> </td></tr> <tr> <td style="padding-left: 40px;">Date of Last Spring Frost:</td> <td></td> <td style="text-align: center;">3-May</td> <td></td> </tr> <tr> <td style="padding-left: 40px;">Date of First Fall Frost:</td> <td></td> <td style="text-align: center;">23-Oct</td> <td></td> </tr> <tr> <td style="padding-left: 40px;">Frost Free Period:</td> <td></td> <td style="text-align: center;">173 days</td> <td></td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March				April				May	66.0	2.50	6.00	June	79.0	2.04	6.00	July	80.0	5.64		August	76.0	3.61	6.00	September	69.0	0.58	6.00	October	59.0	2.91		November				December				<hr/>				Seasonal Precipitation:		17.3 in.		Total Irrigation:		24.0 in.		 				Date of Last Spring Frost:		3-May		Date of First Fall Frost:		23-Oct		Frost Free Period:		173 days	
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**Table 16B. New Mexico 2008 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Tucumcari**

**Results**

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	ADF	NDF	NDFD 48hr	Ash	TDN	NE <sub>L</sub> Mcal/lb	RFV	RFQ
		Dry Forage t/a	Green Forage t/a	at Harvest %									
Eastern Colorado Seeds	HP300 BMR PPS	5.8	14.6	60.2	3.5	37.4	56.1	61.5	16.3	59.9	0.61	99	76
Richardson Seeds	Sweeter'N Honey II	5.2	12.9	61.8	3.2	36.7	56.4	58.3	13.2	60.7	0.62	100	77
Richardson Seeds	Pacesetter	5.0	14.5	65.5	4.2	35.7	56.6	56.5	8.0	61.9	0.63	101	96
Eastern Colorado Seeds	HP1010 MS BMR	3.8	11.0	65.4	5.5	33.0	54.5	68.0	8.0	65.0	0.67	108	125
Richardson Seeds	Silo700D	3.6	9.5	62.2	3.5	34.0	53.2	60.3	7.8	63.8	0.66	110	99
Eastern Colorado Seeds	HP95 BMR	3.5	8.0	57.2	5.1	33.3	52.6	64.3	8.0	64.6	0.66	112	119
Richardson Seeds	Pacesetter BMR	3.5	10.9	67.4	5.5	35.0	57.0	65.3	11.0	62.7	0.64	101	106
Coffey Forage Seed	FSG6810	3.4	8.4	60.8	4.2	33.2	51.0	64.5	12.7	64.7	0.67	115	95
Richardson Seeds	Sweeter'N Honey BMR	2.9	8.0	62.9	4.8	35.3	58.3	63.8	8.7	62.3	0.64	98	106
Richardson Seeds	BundleKing BMR	2.5	7.3	66.2	4.7	31.8	51.2	69.5	8.2	66.3	0.68	117	122
	Trial Mean	4.0	10.5	63.0	4.7	34.5	54.7	63.2	10.2	63.2	0.65	106	102
	LSD	NS	NS	NS	NS	NS	2.6	2.6	NS	NS	NS	8	NS
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	42.2	40.6	6.4	24.0	42.2	30.0	2.6	43.1	2.6	2.9	4.9	21.2
	F Test	0.3975	0.3739	0.1266	0.5755	0.0830	0.0068	0.0001	0.2995	0.0817	0.0868	0.0236	0.5789

**Table 17A. New Mexico 2008 Irrigated Sorghum x Sudangrass Performance Test - Agricultural Science Center at Artesia**

**Investigators:** F.E. Contreras-Govea and L. Carrasco

**Test Description**

<b>Location:</b>		<b>Management Practices:</b>			<b>Growing Conditions:</b>		
County/Area:	Eddy	Previous Crop:	Cotton		Average		
Longitude:	-104.38	Planting Date:	5/22/2008		Temp	Precip.	Irrigation
Latitude:	32.75	Harvest Date:	7/23/2008		°F	in.	in.
Elevation:	3348 ft	Second Harvest	10/7/2008				
Soil Name:	Reagan	<b>Production Inputs:</b>					
Soil Texture:	loam						
Soil Depth:	>80 in.						
			Rate	Date			
		<b>Fertilizer:</b>					
		Nitrogen	53 lb/a	23-Apr	January		
			63 lb/a	17-Jun	February		
			67 lb/a	28-Jul	March	52.4	0.11
					April	59.0	0.00 2.53
					May	68.9	1.00 1.81
					June	81.0	1.12 1.49
		P2O5	60 lb/a	23-Apr	July	78.2	4.22 0.83
		K2O	40 lb/a	23-Apr	August	77.5	1.79 1.28
					September	68.9	2.23
					October		
		<b>Herbicides:</b> None					
		<b>Insecticides:</b>					
		Pounce	8 oz/a	19-Jun	Precipitation:	10.5	
		Intrepid	4 oz/a	26-Jun	Total Irrigation:	7.94	
		Pounce	4 oz/a	26-Jun			
		Silkin	4 oz/a	26-Jun	Date of Last Spring Frost:	19-Apr	
		Intrepid	4 oz/a	2-Jul	Date of First Fall Frost:	23-Oct	
		Silkin	4 oz/a	2-Jul	Frost Free Period:	187	
		RSA 7+17% Zn	16 oz/a	2-Jul			
		Oberon	4 oz/a	24-Jul			
		Intrepid	4 oz/a	26-Aug			
		Pounce	4 oz/a	26-Aug			
		Silkin	4 oz/a	26-Aug			

**Table 17B. New Mexico 2008 Irrigated Sorghum x Sudangrass Performance Test - Agricultural Science Center at Artesia**

Brand/Company Name	Hybrid/Variety Name	Dry Forage			Green Forage			Moisture		Milk per Ton		Milk per Acre	
		1st Cut	2nd Cut	Total	1st Cut	2nd Cut	Total	1st Cut	2nd Cut	1st Cut	2nd Cut	1st Cut	2nd Cut
		t/a	t/a	t/a	t/a	t/a	t/a	%	%	lb/t	lb/t	lb/ac	lb/ac
Scott Seed Co.	BMR Gold II	3.2	5.6	8.8	23.4	28.3	51.8	86.5	80.2	1796	1551	5719	8896
Dyna-Gro/UAP	DG Danny Boy	2.8	4.9	7.7	24.0	30.1	54.1	88.4	83.9	2074	1689	5774	8274
Eastern Colorado Seeds, LLC	HP 300 BMR PS	2.6	4.8	7.3	22.3	28.5	50.7	88.6	83.3	2149	1750	5495	8258
Eastern Colorado Seeds, LLC	HP 200 BMR	2.5	4.7	7.2	19.1	23.5	42.6	86.8	80.5	2302	1887	5771	8977
Scott Seed Co.	Premium Stock LS	2.6	3.0	5.6	23.5	18.5	42.0	88.9	83.7	1929	1599	5035	4811
Eastern Colorado Seeds, LLC	HP 3030 DW BMR	2.5	3.0	5.5	18.6	16.5	35.1	86.3	82.1	2505	1829	6315	5287
	Trial Mean	2.7	4.3	7.0	21.8	24.2	46.0	87.6	82.3	2126	1717	5685	7417
	LSD	NS	1.6	1.8	3.6	6.5	7.8	1.3	2.3	202	NS	NS	NS
	LSD>	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	12.9	23.9	16.7	11.1	17.8	11.2	1.0	1.9	6.3	10.8	15.1	31.9
	F test	0.1100	0.0112	0.0087	0.0183	0.0015	0.0008	0.0010	0.0096	<0.0001	0.1408	0.4819	0.0788

**Table 17C. New Mexico 2008 Irrigated Sorghum x Sudangrass Performance Test - Agricultural Science Center at Artesia**

Brand/Company Name	Hybrid/Variety Name	Crude Protein		NDF		NDFD-48		Ash		TDN		Nel	
		1st Cut	2nd Cut	1st Cut	2nd Cut	1st Cut	2nd Cut	1st Cut	2nd Cut	1st Cut	2nd Cut	1st Cut	2nd Cut
		%	%	%	%	%	%	%	%	%	%	Mcal/lb	Mcal/lb
Scott Seed Co.	BMR Gold II	9.9	8.5	70.0	68.3	50.7	44.5	11.8	10.9	48.0	45.5	0.48	0.45
Dyna-Gro/UAP	DG Danny Boy	10.7	8.3	67.9	70.5	56.0	49.5	13.2	12.1	51.2	46.7	0.52	0.47
Eastern Colorado Seeds, LLC	HP 300 BMR PS	11.5	8.3	66.5	70.6	55.7	50.0	12.6	11.2	52.3	47.5	0.53	0.48
Eastern Colorado Seeds, LLC	HP 200 BMR	12.2	9.0	65.1	64.9	56.9	47.6	11.9	10.0	54.3	49.8	0.55	0.50
Scott Seed Co.	Premium Stock LS	10.6	9.0	68.6	68.8	52.9	45.5	12.5	10.8	49.6	46.1	0.50	0.46
Eastern Colorado Seeds, LLC	HP 3030 DW BMR	12.7	9.2	62.8	68.0	59.6	49.9	12.3	11.9	56.8	48.6	0.58	0.49
	Trial Mean	11.3	8.7	66.8	68.5	55.3	47.8	12.4	11.1	52.0	47.4	0.52	0.47
	LSD	1.3	NS	2.3	3.0	3.0	2.9	0.9	NS	2.5	NS	0.03	NS
	LSD>	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	7.4	6.9	2.3	2.9	3.6	4.0	5.0	9.6	3.2	5.0	3.6	5.5
	F test	0.0026	0.2331	0.0001	0.0100	0.0003	0.0022	0.0496	0.1283	<0.0001	0.1662	<0.0001	0.1194

**Table 18A. New Mexico 2008 Irrigated Sorghum x Sudangrass Performance Test - Agricultural Science Center at Clovis**

**Investigators:** M.A. Marsalis, R.E. Kirksey, B. Niece, and A. Scott

**Test Description**

<b>Location:</b>	<b>Management Practices:</b>	<b>Growing Conditions:</b>																																																									
County/Area: Curry Longitude: -103.22 Latitude: 34.60 Elevation: 4435 ft. Soil Name: Olton Soil Texture: clay loam Soil Depth: >60 in.	Previous Crop: fallow Planting Date: 20-May  <table border="0"> <tr> <td></td> <td style="text-align: center;"><u>1st Cutting</u></td> <td style="text-align: center;"><u>2nd Cutting</u></td> </tr> <tr> <td>Harvest Dates:</td> <td style="text-align: center;">22-Jul</td> <td style="text-align: center;">31-Oct</td> </tr> <tr> <td></td> <td style="text-align: center;">28-Jul</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">4-Aug</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">7-Aug</td> <td></td> </tr> </table> <table border="0"> <tr> <td colspan="3"><u>Production Inputs</u></td> </tr> <tr> <td></td> <td style="text-align: center;"><u>Rate</u></td> <td style="text-align: center;"><u>Date</u></td> </tr> </table> Fertilizer:  <table border="0"> <tr> <td>Nitrogen</td> <td style="text-align: center;">17 lb/a</td> <td style="text-align: center;">carryover</td> </tr> <tr> <td>Nitrogen</td> <td style="text-align: center;">70 lb/a</td> <td style="text-align: center;">27-Feb</td> </tr> <tr> <td>Nitrogen</td> <td style="text-align: center;">50 lb/a</td> <td style="text-align: center;">21-Aug</td> </tr> <tr> <td>P2O5</td> <td style="text-align: center;">50 lb/a</td> <td style="text-align: center;">27-Feb</td> </tr> <tr> <td>S</td> <td style="text-align: center;">10 lb/a</td> <td style="text-align: center;">27-Feb</td> </tr> <tr> <td>Zn</td> <td style="text-align: center;">0.5 lb/a</td> <td style="text-align: center;">27-Feb</td> </tr> </table> Herbicides: <table border="0"> <tr> <td>Atrazine</td> <td style="text-align: center;">2 pt/a</td> <td style="text-align: center;">20-May</td> </tr> </table> Insecticides: <table border="0"> <tr> <td>Intrepid</td> <td style="text-align: center;">8 oz/a</td> <td style="text-align: center;">9-Aug</td> </tr> </table>		<u>1st Cutting</u>	<u>2nd Cutting</u>	Harvest Dates:	22-Jul	31-Oct		28-Jul			4-Aug			7-Aug		<u>Production Inputs</u>				<u>Rate</u>	<u>Date</u>	Nitrogen	17 lb/a	carryover	Nitrogen	70 lb/a	27-Feb	Nitrogen	50 lb/a	21-Aug	P2O5	50 lb/a	27-Feb	S	10 lb/a	27-Feb	Zn	0.5 lb/a	27-Feb	Atrazine	2 pt/a	20-May	Intrepid	8 oz/a	9-Aug	<table border="0"> <tr> <td></td> <td style="text-align: center;"><u>Average</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;"><u>Temp.</u></td> <td style="text-align: center;"><u>Precip.</u></td> <td style="text-align: center;"><u>Irrigation</u></td> </tr> <tr> <td></td> <td style="text-align: center;">°F</td> <td style="text-align: center;">in.</td> <td style="text-align: center;">in.</td> </tr> </table> January February March 46.9 April 53.7 0.73 May 62.5 1.75 1.80 June 75.5 3.95 2.90 July 73.0 4.74 2.60 August 73.0 3.56 5.30 September 64.8 1.02 2.60 October 4.51 November December  Seasonal Precipitation: 20.3 in. Total Irrigation: 15.2 in.  Date of Last Spring Frost: 11-May Date of First Fall Frost: 23-Oct Frost Free Period: 165 days		<u>Average</u>				<u>Temp.</u>	<u>Precip.</u>	<u>Irrigation</u>		°F	in.	in.
	<u>1st Cutting</u>	<u>2nd Cutting</u>																																																									
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**Table 18B. New Mexico 2008 Irrigated Sorghum x Sudangrass Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid/Variety Name	Cutting 1					Cutting 2					Total Dry Forage t/a		
		Dry Forage t/a	Green Forage t/a	Moisture at Harvest		Milk/Ton lb/t	Milk/Acre lb/a	Dry Forage t/a	Green Forage t/a	Moisture at Harvest			Milk/Ton lb/t	Milk/Acre lb/a
				%						%				
Curtis and Curtis Seed, Inc.	Triplegainer BMR	5.6	23.5	76.1		3001	16857	4.1	18.4	77.4		2567	10661	9.8
Dyna-Gro/UAP	DG Danny Boy	5.3	24.8	78.4		2876	15568	4.4	20.6	78.6		2601	11449	9.8
Scott Seed Co.	BMR Gold II	3.9	21.4	81.7		2259	8837	5.2	18.5	72.0		2638	13670	9.1
Sorghum Partners, Inc.	Sordan 79	3.1	17.9	82.8		2557	7922	5.8	19.1	69.8		2557	14860	8.9
Sorghum Partners, Inc.	Sordan Headless	4.8	27.0	82.3		2657	12706	4.1	16.2	74.7		2536	10439	8.9
Sorghum Partners, Inc.	Trudan Headless	4.4	23.2	81.0		2698	11885	4.4	16.1	72.8		2470	10794	8.8
Eastern Colorado Seeds, LLC	HP 200 BMR	4.1	19.6	79.0		2190	9027	4.1	14.5	71.7		2729	11150	8.2
Eastern Colorado Seeds, LLC	HP 300 BMR PS	4.3	24.5	82.6		2953	12545	3.6	17.9	80.1		2524	9038	7.8
Scott Seed Co.	Premium Stock LS	4.2	27.4	84.6		2711	11469	3.5	15.0	76.9		2426	8429	7.7
Coffey Forage Seeds, Inc.	EXP 3017	2.3	15.0	84.5		2782	6483	4.6	12.3	62.4		2844	13182	7.0
Curtis and Curtis Seed, Inc.	Wondergraze	2.2	13.6	84.1		2628	5722	4.5	14.6	69.0		2398	10926	6.7
Eastern Colorado Seeds, LLC	HP 3030 DW BMR	3.6	16.7	78.5		2942	10553	3.1	10.9	71.3		2652	8244	6.7
Sorghum Partners, Inc.	Trudan BMR	3.5	17.9	80.6		2883	9985	3.2	12.3	73.7		2587	8405	6.7
Coffey Forage Seeds, Inc.	EXP 2017	2.7	14.8	81.6		2152	5863	3.6	11.7	68.7		2905	10590	6.4
Coffey Forage Seeds, Inc.	EXP 2017 DW	3.4	17.6	80.6		2853	9778	2.4	9.7	75.3		2476	5901	5.8
	Trial Mean	3.8	20.3	81.2		2676	10347	4.0	15.2	73.0		2594	10515	7.9
	LSD	0.9	1.9	3.8		199	2992	0.6	1.8	3.0		232	2288	1.3
	LSD P >	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.05		0.05	0.05	0.05
	CV	14.6	5.7	2.8		4.5	17.3	8.8	6.9	2.4		5.4	13.0	9.6
	F Test	<0.0001	<0.0001	0.0022		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		0.0041	<0.0001	<0.0001

**Table 18C. New Mexico 2008 Irrigated Sorghum x Sudangrass Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid/Variety Name	Cutting 1							Cutting 2						
		NDFD							NDFD						
		CP	ADF	NDF	48hr	Ash	TDN	NE <sub>l</sub>	CP	ADF	NDF	48hr	Ash	TDN	NE <sub>l</sub>
%	%	%	%	%	%	Mcal/lb	%	%	%	%	%	%	Mcal/lb		
Curtis and Curtis Seed, Inc.	Triplegainer BMR	10.4	32.5	57.5	72.6	8.2	61.6	0.63	11.0	34.9	62.1	66.3	8.6	56.2	0.57
Dyna-Gro/UAP	DG Danny Boy	10.0	33.6	59.3	70.8	8.1	60.1	0.61	10.5	34.5	61.4	66.2	8.4	56.7	0.58
Scott Seed Co.	BMR Gold II	9.5	40.3	70.0	62.0	6.4	52.4	0.53	8.9	34.1	62.2	65.7	7.2	57.2	0.58
Sorghum Partners, Inc.	Sordan 79	13.1	34.0	60.7	63.0	7.4	56.4	0.57	8.0	34.9	62.6	62.6	6.4	56.5	0.57
Sorghum Partners, Inc.	Sordan Headless	9.1	36.2	61.1	65.2	7.3	57.6	0.59	9.1	35.3	62.8	63.4	7.1	56.1	0.57
Sorghum Partners, Inc.	Trudan Headless	9.9	35.2	60.8	65.5	7.0	58.1	0.59	8.6	35.8	63.8	62.7	7.1	55.2	0.56
Eastern Colorado Seeds, LLC	HP 200 BMR	14.6	36.5	66.3	59.2	7.3	51.7	0.52	9.2	32.3	60.2	66.2	7.3	58.4	0.60
Eastern Colorado Seeds, LLC	HP 300 BMR PS	9.4	34.0	58.7	71.2	7.5	61.1	0.63	9.7	37.6	64.8	66.9	8.3	55.5	0.56
Scott Seed Co.	Premium Stock LS	9.9	35.0	59.9	66.3	7.7	58.2	0.59	10.3	35.6	63.2	62.5	7.9	54.6	0.55
Coffey Forage Seeds, Inc.	EXP 3017	13.0	31.3	58.8	68.0	8.0	59.0	0.60	8.2	31.4	59.5	67.8	6.9	59.9	0.61
Curtis and Curtis Seed, Inc.	Wondergraze	11.1	33.8	60.7	64.1	7.1	57.3	0.58	8.8	34.7	62.6	60.2	7.2	54.5	0.55
Eastern Colorado Seeds, LLC	HP 3030 DW BMR	9.8	31.8	57.6	70.4	7.8	61.0	0.63	11.7	31.8	58.6	65.5	8.6	57.5	0.59
Sorghum Partners, Inc.	Trudan BMR	11.9	31.0	55.4	68.2	8.4	60.4	0.62	11.2	33.3	60.2	64.9	8.4	56.6	0.58
Coffey Forage Seeds, Inc.	EXP 2017	15.4	36.3	66.7	59.4	7.7	51.2	0.52	9.7	29.9	56.5	67.7	7.4	60.8	0.62
Coffey Forage Seeds, Inc.	EXP 2017 DW	12.1	30.3	56.7	69.0	8.6	59.9	0.61	11.9	33.8	62.2	64.8	8.9	55.1	0.56
	Trial Mean	11.3	34.1	60.7	66.3	7.6	57.7	0.59	9.8	34.0	61.5	64.9	7.7	56.7	0.58
	LSD	2.2	2.2	2.9	3.6	1.0	2.5	0.03	1.2	2.2	3.6	3.0	0.6	3.0	0.03
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	11.9	3.9	2.9	3.3	7.6	2.5	2.8	7.2	3.9	3.5	2.7	4.7	3.1	3.4
	F Test	<0.0001	<0.0001	<0.0001	<0.0001	0.0061	<0.0001	<0.0001	<0.0001	<0.0001	0.0058	0.0003	<0.0001	0.0050	0.0041

**Table 19A. New Mexico 2008 Dryland Sorghum x Sudangrass Performance Test - Agricultural Science Center at Clovis**

**Investigators:** M.A. Marsalis, R.E. Kirksey, B. Niece, and A. Scott

**Test Description**

<b>Location:</b>	<b>Management Practices:</b>	<b>Growing Conditions:</b>																																																												
County/Area: Curry Longitude: -103.22 Latitude: 34.60 Elevation: 4435 ft. Soil Name: Olton Soil Texture: clay loam Soil Depth: >60 in.	Previous Crop: fallow Planting Date: 20-May  <table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: center;"><u>1st Cutting</u></td> <td style="text-align: center;"><u>2nd Cutting</u></td> </tr> <tr> <td>Harvest Dates:</td> <td style="text-align: center;">28-Jul</td> <td style="text-align: center;">31-Oct</td> </tr> <tr> <td></td> <td style="text-align: center;">1-Aug</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">4-Aug</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">12-Aug</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">22-Aug</td> <td></td> </tr> </table> <table border="0" style="width: 100%;"> <tr> <td colspan="3"><u>Production Inputs</u></td> </tr> <tr> <td></td> <td style="text-align: center;"><u>Rate</u></td> <td style="text-align: center;"><u>Date</u></td> </tr> </table> Fertilizer:  <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">Nitrogen</td> <td style="text-align: center;">12 lb/a</td> <td style="text-align: center;">carryover</td> </tr> <tr> <td style="padding-left: 20px;">Nitrogen</td> <td style="text-align: center;">60 lb/a</td> <td style="text-align: center;">20-May</td> </tr> <tr> <td style="padding-left: 20px;">P2O5</td> <td style="text-align: center;">50 lb/a</td> <td style="text-align: center;">27-Feb</td> </tr> <tr> <td style="padding-left: 20px;">S</td> <td style="text-align: center;">10 lb/a</td> <td style="text-align: center;">27-Feb</td> </tr> <tr> <td style="padding-left: 20px;">Zn</td> <td style="text-align: center;">0.5 lb/a</td> <td style="text-align: center;">27-Feb</td> </tr> </table> Herbicides: <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">Atrazine</td> <td style="text-align: center;">2 pt/a</td> <td style="text-align: center;">20-May</td> </tr> <tr> <td style="padding-left: 20px;">Glyphosate</td> <td style="text-align: center;">1 qt/a</td> <td style="text-align: center;">20-May</td> </tr> </table> Insecticides: <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">Intrepid</td> <td style="text-align: center;">8 oz/a</td> <td style="text-align: center;">9-Aug</td> </tr> </table>		<u>1st Cutting</u>	<u>2nd Cutting</u>	Harvest Dates:	28-Jul	31-Oct		1-Aug			4-Aug			12-Aug			22-Aug		<u>Production Inputs</u>				<u>Rate</u>	<u>Date</u>	Nitrogen	12 lb/a	carryover	Nitrogen	60 lb/a	20-May	P2O5	50 lb/a	27-Feb	S	10 lb/a	27-Feb	Zn	0.5 lb/a	27-Feb	Atrazine	2 pt/a	20-May	Glyphosate	1 qt/a	20-May	Intrepid	8 oz/a	9-Aug	<table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: center;"><u>Average</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;"><u>Temp.</u></td> <td style="text-align: center;"><u>Precip.</u></td> <td style="text-align: center;"><u>Irrigation</u></td> </tr> <tr> <td></td> <td style="text-align: center;">°F</td> <td style="text-align: center;">in.</td> <td style="text-align: center;">in.</td> </tr> </table> January February March            46.9 April            53.7            0.73 May            62.5            1.75 June            75.5            3.95 July            73.0            4.74 August           73.0            3.56 September      64.8            1.02 October                    4.51 November December		<u>Average</u>				<u>Temp.</u>	<u>Precip.</u>	<u>Irrigation</u>		°F	in.	in.
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<b>Test Design:</b> Replications: 3 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in.  Seeding Rate: 128000 seeds/a		           Seasonal Precipitation: 20.3 in. Total Irrigation: 0.0 in.  Date of Last Spring Frost: 11-May Date of First Fall Frost: 23-Oct Frost Free Period: 165 days																																																												

**Table 19B. New Mexico 2008 Dryland Sorghum x Sudangrass Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid/Variety Name	Cutting 1					Cutting 2					Total Dry Forage t/a
		Dry Forage t/a	Green Forage t/a	Moisture		Milk/Acre lb/a	Dry Forage t/a	Green Forage t/a	Moisture		Milk/Acre lb/a	
				at Harvest %	Milk/Ton lb/t				at Harvest %	Milk/Ton lb/t		
Coffey Forage Seeds, Inc.	EXP 2017	4.8	12.5	62.2	3296	15719	1.6	4.7	65.9	3005	4760	6.4
Coffey Forage Seeds, Inc.	EXP 3017	2.9	12.6	76.7	3217	9439	3.0	7.4	58.7	3232	9832	6.0
Sorghum Partners, Inc.	Sordan 79	3.1	14.5	78.8	2105	6436	2.9	8.0	63.8	3142	9068	6.0
Eastern Colorado Seeds, LLC	HP 200 BMR	2.8	15.0	81.3	3282	9252	3.1	8.8	64.9	3065	9444	5.9
Curtis and Curtis Seed, Inc.	Wondergraze	2.6	12.4	79.4	2119	5426	3.1	8.0	61.1	3106	9626	5.7
Curtis and Curtis Seed, Inc.	Triplegainer BMR	3.9	19.0	79.6	3347	13023	1.7	4.3	59.7	2829	4853	5.6
Dyna-Gro/UAP	DG Danny Boy	3.6	18.7	80.6	3243	11763	1.6	3.9	59.9	2813	4358	5.2
Eastern Colorado Seeds, LLC	HP 3030 DW BMR	2.9	13.9	78.9	3159	9314	1.1	2.7	59.9	2889	3139	4.0
Coffey Forage Seeds, Inc.	EXP 2017 DW	2.9	12.9	77.5	3248	9490	1.1	2.7	59.5	2941	3173	4.0
Eastern Colorado Seeds, LLC	HP 300 BMR PS	2.6	13.9	81.6	3247	8340	1.4	3.4	60.2	2898	3919	3.9
	Trial Mean	3.2	14.6	77.7	3026	9820	2.0	5.4	61.4	2991	6217	5.3
	LSD	1.2	3.2	4.2	172	3603	0.5	1.5	3.6	95	1601	1.4
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	21.4	12.7	3.1	3.3	21.4	15.1	16.6	3.4	1.9	15.0	16.0
	F Test	0.0202	0.0014	<0.0001	<0.0001	0.0005	<0.0001	<0.0001	0.0030	<0.0001	<0.0001	0.0087

**Table 19C. New Mexico 2008 Dryland Sorghum x Sudangrass Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid/Variety Name	Cutting 1							Cutting 2						
		NDFD							NDFD						
		CP	ADF	NDF	48hr	Ash	TDN	NE <sub>i</sub>	CP	ADF	NDF	48hr	Ash	TDN	NE <sub>i</sub>
%	%	%	%	%	%	Mcal/lb	%	%	%	%	%	%	Mcal/lb		
Coffey Forage Seeds, Inc.	EXP 2017	12.3	28.1	50.4	75.6	8.4	65.5	0.67	11.9	29.0	54.7	70.2	8.0	61.9	0.64
Coffey Forage Seeds, Inc.	EXP 3017	10.5	30.1	53.4	74.9	8.0	64.4	0.66	8.9	28.4	54.6	73.0	6.4	64.8	0.67
Sorghum Partners, Inc.	Sordan 79	13.4	39.6	67.5	57.5	6.8	50.7	0.51	8.6	29.7	55.3	70.7	6.2	63.8	0.66
Eastern Colorado Seeds, LLC	HP 200 BMR	10.3	29.5	52.8	74.9	7.4	65.3	0.67	9.6	29.2	56.1	71.1	7.0	62.6	0.64
Curtis and Curtis Seed, Inc.	Wondergraze	13.3	40.0	68.6	58.4	6.6	50.8	0.51	7.9	29.9	54.9	69.2	6.2	63.4	0.65
Curtis and Curtis Seed, Inc.	Triplegainer BMR	9.8	27.7	51.3	76.6	8.0	66.1	0.68	13.2	30.6	55.8	68.1	8.8	59.7	0.61
Dyna-Gro/UAP	DG Danny Boy	10.4	28.6	53.3	75.3	7.9	64.7	0.67	13.0	30.8	55.9	67.7	8.8	59.5	0.61
Eastern Colorado Seeds, LLC	HP 3030 DW BMR	11.3	28.4	53.1	73.8	8.4	63.7	0.65	13.2	29.8	54.7	68.1	8.5	60.5	0.62
Coffey Forage Seeds, Inc.	EXP 2017 DW	11.6	26.8	51.8	74.5	8.0	64.9	0.67	13.2	28.6	53.5	67.8	8.2	61.2	0.63
Eastern Colorado Seeds, LLC	HP 300 BMR PS	11.0	28.7	52.2	75.3	8.3	64.8	0.67	13.0	30.7	55.6	69.1	8.5	60.5	0.62
	Trial Mean	11.4	30.7	55.4	71.7	7.8	62.1	0.64	11.3	29.7	55.1	69.5	7.7	61.8	0.63
	LSD	1.6	1.3	1.6	3.3	0.7	2.1	0.02	0.6	1.0	NS	1.7	0.5	1.2	0.01
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	8.1	2.5	1.7	2.7	5.0	2.0	2.2	3.3	2.0	2.0	1.5	4.1	1.1	1.2
	F Test	0.0011	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	0.0004	0.2201	<0.0001	<0.0001	<0.0001	<0.0001

**Table 20A. New Mexico 2008 Sorghum x Sudangrass Performance Test - Agricultural Science Center at Los Lunas**

Investigators: M. Place, L. Swanick, and M.A. Marsalis

**Test Description**

<b>Location:</b>	<b>Management Practices:</b>	<b>Growing Conditions:</b>																																																																																																					
County/Area: Valencia Longitude: -106.45 Latitude: 34.46 Elevation: 4840 ft. Soil Name: Gila Clay Loam Soil Texture: Clay loam Soil Depth: 60 in	Previous Crop: Winter - wheat; summer - fallow Planting Date: 19-May Harvest Date(s): 11-Sep  <b>Production Inputs</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;">Rate</th> <th style="width: 25%; text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Fertilizer:</b></td> </tr> <tr> <td>33-0-0-11</td> <td style="text-align: center;">130 lb/a</td> <td style="text-align: center;">8-May</td> </tr> <tr> <td>33-0-0-11</td> <td style="text-align: center;">500 lb/a</td> <td style="text-align: center;">19-Jun</td> </tr> <tr> <td>Total:</td> <td style="text-align: center;"> <table border="0" style="display: inline-table; vertical-align: middle;"> <tr> <td style="padding: 0 5px;">N</td> <td style="padding: 0 5px;">P</td> <td style="padding: 0 5px;">K</td> <td style="padding: 0 5px;">S</td> </tr> <tr> <td style="text-align: center;">208</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">69</td> </tr> </table> </td> <td></td> </tr> <tr> <td colspan="3"><b>Herbicides:</b></td> </tr> <tr> <td>Atrazine</td> <td style="text-align: center;">3 pt/a</td> <td style="text-align: center;">20-Jun</td> </tr> </tbody> </table>		Rate	Date	<b>Fertilizer:</b>			33-0-0-11	130 lb/a	8-May	33-0-0-11	500 lb/a	19-Jun	Total:	<table border="0" style="display: inline-table; vertical-align: middle;"> <tr> <td style="padding: 0 5px;">N</td> <td style="padding: 0 5px;">P</td> <td style="padding: 0 5px;">K</td> <td style="padding: 0 5px;">S</td> </tr> <tr> <td style="text-align: center;">208</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">69</td> </tr> </table>	N	P	K	S	208	0	0	69		<b>Herbicides:</b>			Atrazine	3 pt/a	20-Jun	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%; text-align: center;">Average Temp. °F</th> <th style="width: 20%; text-align: center;">Precip. in.</th> <th style="width: 30%; text-align: center;">Flood Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td style="text-align: center;">31.6</td><td style="text-align: center;">0.31</td><td></td></tr> <tr><td>February</td><td style="text-align: center;">39.2</td><td style="text-align: center;">0.24</td><td></td></tr> <tr><td>March</td><td style="text-align: center;">46.5</td><td style="text-align: center;">0.01</td><td></td></tr> <tr><td>April</td><td style="text-align: center;">53.1</td><td style="text-align: center;">0.00</td><td></td></tr> <tr><td>May</td><td style="text-align: center;">62.9</td><td style="text-align: center;">1.05</td><td style="text-align: center;">3.00</td></tr> <tr><td>June</td><td style="text-align: center;">75.2</td><td style="text-align: center;">0.63</td><td style="text-align: center;">6.00</td></tr> <tr><td>July</td><td style="text-align: center;">77.6</td><td style="text-align: center;">1.65</td><td style="text-align: center;">6.00</td></tr> <tr><td>August</td><td style="text-align: center;">76.0</td><td style="text-align: center;">1.60</td><td style="text-align: center;">6.00</td></tr> <tr><td>September</td><td style="text-align: center;">68.0</td><td style="text-align: center;">0.17</td><td></td></tr> <tr><td>October</td><td style="text-align: center;">56.5</td><td style="text-align: center;">1.22</td><td></td></tr> <tr><td>November '07</td><td style="text-align: center;">46.6</td><td style="text-align: center;">0.10</td><td></td></tr> <tr><td>December '07</td><td style="text-align: center;">35.7</td><td style="text-align: center;">1.23</td><td></td></tr> <tr> <td colspan="2" style="text-align: right;">Seasonal Precipitation:</td> <td style="text-align: center;">4.5 in.</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;">Total Irrigation:</td> <td style="text-align: center;">21.0 in.</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;">Date of Last Spring Frost:</td> <td style="text-align: center;">3-May</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;">Date of First Fall Frost:</td> <td style="text-align: center;">13-Oct</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;">Frost Free Period:</td> <td style="text-align: center;">163 days</td> <td></td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Flood Irrigation in.	January	31.6	0.31		February	39.2	0.24		March	46.5	0.01		April	53.1	0.00		May	62.9	1.05	3.00	June	75.2	0.63	6.00	July	77.6	1.65	6.00	August	76.0	1.60	6.00	September	68.0	0.17		October	56.5	1.22		November '07	46.6	0.10		December '07	35.7	1.23		Seasonal Precipitation:		4.5 in.		Total Irrigation:		21.0 in.		Date of Last Spring Frost:		3-May		Date of First Fall Frost:		13-Oct		Frost Free Period:		163 days	
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**Table 20B. New Mexico 2008 Sorghum x Sudangrass Performance Test - Agricultural Science Center at Los Lunas**

**Results**

Brand/Company Name	Hybrid/Variety Name	Dry Forage	Green Forage	Moisture		CP	ADF	NDF	NDFD 48hr	Ash	TDN	NE <sub>L</sub>	Milk per Ton	Milk per Acre	RFQ
				at Harvest	%										
		t/a	t/a	%	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a		
Eastern Colorado Seeds, LLC	HP 300 BMR PS	12.0	50.1	76.0	8.5	36.7	64.8	68.5	8.3	56.3	0.6	2592	31172	110	
Eastern Colorado Seeds, LLC	HP 200 BMR	11.7	36.5	67.9	8.5	30.0	53.9	62.3	6.6	60.7	0.6	2859	33484	85	
Eastern Colorado Seeds, LLC	HP 3030 DW BMR	6.7	25.5	74.0	10.2	34.1	61.5	67.0	8.8	56.6	0.6	2601	17290	90	
Trial Mean		10.1	37.4	72.6	9.0	33.6	60.1	65.9	7.9	57.9	0.6	2684	27315	95	
LSD		2.8	9.7	1.7	1.4	4.0	6.5	2.8	1.6	NS	NS	NS	8745	17	
LSD P>		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
CV		15.9	15.0	1.3	8.6	6.8	6.2	2.5	11.8	3.9	4.3	6.0	18.5	10.5	
F Test		0.0055	0.0025	0.0001	0.0339	0.0168	0.0158	0.0045	0.0331	0.0611	0.0611	0.0961	0.0080	0.0244	

**Table 21A. New Mexico 2008 Irrigated Sorghum x Sudangrass Performance Test - Agricultural Science Center at Tucumcari**

**Investigators:** L.M. Lauriault, R.E. Kirksey, P.L. Cooksey, R. Brake, C. Henson, S. Jennings, and L.F. Perkins

**Test Description**

<p><b>Location:</b>                  County/Area: Quay                  Longitude: -103.69                  Latitude: 35.12                  Elevation: 4091 ft.                  Soil Name: Canwz                  Soil Texture: fine sandy loam                  Soil Depth: &gt;60 in.</p> <p><b>Test Design:</b>                  Replications: 4                  Plot Length: 15 ft.                  Rows per Plot: 8                  Row Spacing: 6 in.                  Seeding Rate: 25 lb/a</p>	<p><b>Management Practices:</b>                  Previous Crop: sorghum forage                  Planting Date: 22-May                  Harvest Date: 13-Aug 21-Oct</p> <p><b>Production Inputs</b></p> <table border="1"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Fertilizer:</b></td> </tr> <tr> <td>Nitrogen</td> <td>100 lb/a</td> <td>20-May</td> </tr> <tr> <td colspan="3"><b>Herbicides:</b></td> </tr> <tr> <td>Aatrex 80W</td> <td>2.5 lb/a</td> <td>20-May</td> </tr> <tr> <td>Clarity</td> <td>1/2 pt/a</td> <td>16-Jul</td> </tr> </tbody> </table>		Rate	Date	<b>Fertilizer:</b>			Nitrogen	100 lb/a	20-May	<b>Herbicides:</b>			Aatrex 80W	2.5 lb/a	20-May	Clarity	1/2 pt/a	16-Jul	<p><b>Growing Conditions:</b></p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td></td><td></td><td></td></tr> <tr><td>February</td><td></td><td></td><td></td></tr> <tr><td>March</td><td></td><td></td><td></td></tr> <tr><td>April</td><td></td><td></td><td></td></tr> <tr><td>May</td><td>66.0</td><td>2.50</td><td>6.00</td></tr> <tr><td>June</td><td>79.0</td><td>2.04</td><td>6.00</td></tr> <tr><td>July</td><td>80.0</td><td>5.64</td><td></td></tr> <tr><td>August</td><td>76.0</td><td>3.61</td><td>6.00</td></tr> <tr><td>September</td><td>69.0</td><td>0.58</td><td>6.00</td></tr> <tr><td>October</td><td>59.0</td><td>2.91</td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table> <p>Seasonal Precipitation: 17.3 in.                  Total Irrigation: 24.0 in.</p> <p>Date of Last Spring Frost: 3-May                  Date of First Fall Frost: 23-Oct                  Frost Free Period: 173 days</p>		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March				April				May	66.0	2.50	6.00	June	79.0	2.04	6.00	July	80.0	5.64		August	76.0	3.61	6.00	September	69.0	0.58	6.00	October	59.0	2.91		November				December			
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**Table 21B. New Mexico 2008 Irrigated Sorghum x Sudangrass Performance Test - Agricultural Science Center at Tucumcari**

**Results**

Brand/Company Name	Hybrid/Variety Name	Cutting 1			Cutting 2			Total Dry Forage
		Dry Forage	Green Forage	Moisture at Harvest	Dry Forage	Green Forage	Moisture at Harvest	
		t/a	t/a	%	t/a	t/a	%	t/a
Coffey Forage Seeds, Inc.	Exp3017	1.8	7.3	75.5	1.6	6.8	75.7	3.4
Eastern Colorado Seeds, LLC	HP95 BMR	1.8	8.1	77.4	1.3	5.1	73.9	3.2
Richardson Seed, Ltd.	Sweeter'N Honey II	1.6	6.3	74.8	1.5	5.7	73.2	3.1
Richardson Seed, Ltd.	Silo700D	1.5	6.3	75.8	1.4	4.9	72.0	2.9
Richardson Seed, Ltd.	Sweeter'N Honey BMR	2.0	7.3	72.9	0.8	3.1	72.6	2.8
Eastern Colorado Seeds, LLC	HP3030 DW BMR	1.3	5.3	76.0	1.5	5.5	72.4	2.8
Curtis and Curtis Seed, Inc.	WonderGraze	1.4	5.5	74.4	1.3	5.1	73.3	2.7
Eastern Colorado Seeds, LLC	HP200 BMR	1.5	5.8	75.0	1.2	4.7	74.3	2.6
Eastern Colorado Seeds, LLC	HP1010 MS BMR	1.5	6.0	75.9	1.1	4.1	73.2	2.6
Eastern Colorado Seeds, LLC	HP300 BMR PPS	1.4	4.9	72.2	1.1	4.4	74.2	2.5
Sorghum Partners, Inc.	Sordan Headless	0.9	3.7	75.4	1.6	5.7	71.8	2.5
Sorghum Partners, Inc.	Sordan79	1.3	4.9	73.6	1.1	4.2	72.9	2.4
Curtis and Curtis Seed, Inc.	TripleGainer	1.3	5.4	75.6	1.0	3.7	71.9	2.3
Coffey Forage Seeds, Inc.	Exp2017 DW	1.1	4.6	77.3	1.2	4.9	74.6	2.3
Coffey Forage Seeds, Inc.	Exp2017	1.3	5.4	76.1	1.0	3.8	73.4	2.3
Richardson Seed, Ltd.	Pacesetter BMR	1.4	5.5	75.3	0.9	3.5	74.0	2.3
Seed, Inc.	Ribbon Grazer	1.5	5.9	74.7	0.7	2.9	74.3	2.2
Richardson Seed, Ltd.	BundleKing BMR	1.4	5.3	73.4	0.7	2.7	72.8	2.1
Richardson Seed, Ltd.	Pacesetter	1.4	5.6	75.5	0.7	2.8	74.3	2.1
Coffey Forage Seeds, Inc.	FSG6810	1.3	5.8	78.7	0.8	3.2	75.3	2.1
	Trial Mean	1.4	5.7	75.3	1.1	4.3	73.5	2.6
	LSD	NS	NS	NS	NS	NS	NS	NS
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	32.2	26.6	3.3	48.1	49.6	3.0	25.7
	F Test	0.3991	0.2347	0.0669	0.3819	0.4115	0.3665	0.4849

**Table 21C. New Mexico 2008 Irrigated Sorghum x Sudangrass Performance Test - Agricultural Science Center at Tucumcari**

**Results**

Brand/Company Name	Hybrid/Variety Name	Cutting 1							Cutting 2						
		NDFD							NDFD						
		CP	ADF	NDF	48hr	TDN	NE <sub>1</sub>	RFQ	CP	ADF	NDF	48hr	TDN	NE <sub>1</sub>	RFQ
		%	%	%	%	%	Mcal/lb	%	%	%	%	%	Mcal/lb		
Coffey Forage Seeds, Inc.	Exp3017	10.2	37.9	60.8	60.0	59.3	0.61	109	8.7	39.1	60.0	61.3	58.0	0.59	110
Eastern Colorado Seeds, LLC	HP95 BMR	10.4	37.4	61.4	57.5	59.9	0.61	109	8.0	38.7	59.8	60.3	58.5	0.60	111
Richardson Seed, Ltd.	Sweeter'N Honey II	11.0	37.9	61.8	54.8	59.5	0.61	105	8.9	39.8	59.8	60.8	57.2	0.58	107
Richardson Seed, Ltd.	Silo700D	9.1	38.6	61.2	59.8	58.6	0.60	108	8.4	39.8	61.0	59.8	57.2	0.58	103
Richardson Seed, Ltd.	Sweeter'N Honey BMR	10.8	38.4	62.6	56.0	58.8	0.60	103	8.5	39.2	59.2	60.5	57.9	0.59	110
Eastern Colorado Seeds, LLC	HP3030 DW BMR	9.8	37.9	62.0	55.3	59.4	0.61	101	8.0	40.4	60.5	62.0	56.5	0.57	104
Curtis and Curtis Seed, Inc.	WonderGraze	9.3	39.2	62.4	56.0	58.0	0.59	100	8.1	39.0	60.2	61.8	58.1	0.59	109
Eastern Colorado Seeds, LLC	HP200 BMR	8.9	39.6	62.3	55.8	57.4	0.58	99	8.0	39.6	60.4	61.0	57.4	0.58	107
Eastern Colorado Seeds, LLC	HP1010 MS BMR	9.6	38.0	61.8	56.3	59.3	0.61	105	7.8	40.3	60.2	60.3	56.6	0.58	105
Eastern Colorado Seeds, LLC	HP300 BMR PPS	9.3	38.2	61.2	58.0	59.0	0.60	106	7.4	38.8	59.4	63.5	58.3	0.59	110
Sorghum Partners, Inc.	Sordan Headless	9.3	39.2	62.6	57.5	57.9	0.59	101	6.4	41.0	60.9	60.8	55.8	0.57	94
Sorghum Partners, Inc.	Sordan79	10.0	38.8	61.9	60.0	58.4	0.60	102	7.7	38.9	59.1	64.0	58.2	0.59	112
Curtis and Curtis Seed, Inc.	TripleGainer	9.0	37.8	60.4	55.8	59.5	0.61	105	7.1	40.5	60.8	60.5	56.4	0.57	103
Coffey Forage Seeds, Inc.	Exp2017 DW	9.5	37.8	60.1	56.0	59.4	0.61	105	7.6	39.9	60.8	60.5	57.1	0.58	106
Coffey Forage Seeds, Inc.	Exp2017	10.4	37.6	61.3	59.0	59.7	0.61	107	8.0	39.8	60.3	62.5	57.2	0.58	108
Richardson Seed, Ltd.	Pacesetter BMR	10.0	38.3	61.3	57.0	58.9	0.60	103	8.2	39.4	60.0	59.3	57.6	0.59	107
Seed, Inc.	Ribbon Grazer	8.8	39.4	62.4	55.3	57.7	0.59	98	8.2	39.7	60.3	62.0	57.2	0.58	109
Richardson Seed, Ltd.	BundleKing BMR	9.6	39.0	63.6	55.3	58.1	0.59	101	8.0	39.0	59.4	63.0	58.1	0.59	112
Richardson Seed, Ltd.	Pacesetter	8.9	38.0	61.4	56.0	59.3	0.61	106	7.4	39.9	60.2	64.5	57.1	0.58	108
Coffey Forage Seeds, Inc.	FSG6810	9.2	38.6	61.2	60.0	58.5	0.60	107	8.0	38.8	59.2	60.3	58.3	0.59	109
	Trial Mean	9.6	38.4	61.7	57.1	58.8	0.60	104	7.9	39.6	60.1	61.5	57.4	0.59	107
	LSD	NS	1.2	NS	NS	1.4	0.02	NS	NS	NS	NS	NS	NS	NS	NS
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	11.1	2.2	2.4	5.3	1.7	1.8	5.5	13.1	3.4	1.9	5.4	2.7	3.0	6.3
	F Test	0.1847	0.0170	0.2428	0.2528	0.0159	0.0154	0.0820	0.4822	0.4168	0.1498	0.6814	0.4150	0.4157	0.0852

## Appendix A

### Companies and Contact Information for Participants in the Agricultural Science Center Fee-Test Program

## New Mexico 2008 Grain Corn Hybrid Performance Test

Company/Brand Name	Hybrid/Variety Name	Relative Maturity (days)
<b>Dairyland Seed Co., Inc.</b> P.O. Box 958 West Bend, WI 53095 (262) 626-3080 Sherry Peters	<b>Full Season:</b>	
	Dairyland ST-9114	114
	Dairyland ST-9116	116
<b>DOW/Mycogen Seeds</b> 8401 Shady Lake Dr. Canyon, TX 79105 (806) 367-4521 Peter Hill	<b>Full Season:</b>	
	2T789 HX1/LL/RR2	114
	2T804 HX1/LL/RR2	114
	2M797 HX1/LL	115
	2W814 HX1/LL/RR2	115
	2T826 HX1/LL/RR2	115
	2R693 HX1/LL	109
	2K718 HX1/LL/RR2	111
2C727 HX1/LL	112	
<b>Dyna-Gro Seed (UAP Southwest)</b> 3492 Long Prairie Road, Suite 200 Flower Mound, TX 75022 (318) 282-9804 Shawn Carter	<b>Full Season:</b>	
	DG 58P27	119
	DG 58P59	116
<b>Eureka Seeds, Inc.</b> P.O. Box 1866 Woodland, CA 95776 (530) 661-6995 Craig Sharp	<b>Full Season:</b>	
	ES-7654 RR	118
	ST-7679 RR	116
	ESX-7133	116
	ES-7548 VT3	116
	<b>Early Season:</b> ES-7548 VT3	116
<b>Grand Valley Hybrids</b> 840 23 Road Grand Junction, CO 81505 (970) 216-0635 Bill Rooks	<b>Full Season:</b>	
	X6RH83	113
	X7RH111	117
	X7V112	117
	X6V113	114

## New Mexico 2008 Grain Corn Hybrid Performance Test (cont.)

Company/Brand Name	Hybrid/Variety Name	Relative Maturity (days)
<b>Integra/Wilbur Ellis</b>	<b>Full Season:</b>	
5601 White Fence Road	9674RB	117
Canyon, TX 79015	9673VT3	117
(806) 341-0333	IXO7651VT3	115
Steve Kerns	IXO7640BC	114
	IX8650VT3	115
	IXO7675HX	117
	<b>Early Season:</b>	
	IXO8491	99
	IXO8490RBC	99
	9531RB	100
	9511VT3	100
	IXO8521RB	102
	9520RBC	102
	9530VT3	102
	IXO8532VT3	103
	IXO8543RB	104
	IXO8542RC	104
	IXO8483BL	98
	IXO8513HXTR	101
	IXO8544	104
	IXO8492R	99
	IXO8500RB	100
	IXO7503HXTR	100
	IXO8533BL	103
	IXO8535RBL	103
	9472R	97
	IXO8485BL	98
	IXO8501HXR	100
	6602VT3	100
<hr/>		
<b>Monsanto Company</b>	<b>Full Season:</b>	
800 N. Lindbergh Blvd.	Dekalb DKC 64-79 (VT3)	114
St. Louis, MO 63137	Dekalb DKC 61-69 (VT3)	111
(815) 754-4809	Dekalb DKC 66-23 (RR2/YGCB)	116
Diane Freeman	Dekalb DKC 67-87 (RR2/YGCB)	117
	<b>Early Season:</b>	
	Dekalb DKC 52-59 (VT3)	102
	Dekalb DKC 50-19 (VT3)	100
	Dekalb DKC 55-24 (VT3)	105
	Dekalb DKC 49-32 (VT3)	99
	Dekalb DKC 45-79 (VT3)	95

## New Mexico 2008 Grain Corn Hybrid Performance Test (cont.)

<b>Company/Brand Name</b>	<b>Hybrid/Variety Name</b>	<b>Relative Maturity</b> (days)
<b>Pioneer Hi-Bred International, Inc.</b>	<b>Early Season:</b>	
8100 S. 15th St.	35F40 (HX1/LL/RR2)	105
Lincoln, NE 68516	36V75 (HX1,LL,RR2)	102
(402) 613-0817	37K11 (HX1,LL,RR2)	99
Neal Hoss	35K03	106
<hr/>		
<b>Triumph Seed Co., Inc.</b>	<b>Full Season:</b>	
P.O. Box 1050	3203CbRR	103
Ralls, TX 79357	1109VT3	109
888-521-7333		
Ben Benton		

## New Mexico 2008 Forage Corn Hybrid Performance Test

<b>Company/Brand Name</b>	<b>Hybrid/Variety Name</b>	<b>Relative Maturity (days)</b>
<b>Dairyland Seed Co., Inc.</b> P.O. Box 958 West Bend, WI 53095 (262) 626-3080 Sherry Peters	Dairyland ST-11914	119
	Dairyland ST-9114	114
	Dairyland ST-9116	116
<b>DOW/Mycogen Seeds</b> 8401 Shady Lake Dr. Canyon, TX 79105 (806) 367-4521 Peter Hill	2H917 RR2	123
	2L844 RR2	119
	2N804 HX1/LL/RR2	116
	2Q759 HX1/HXRW/LL/RR2	113
	2Q733 HX1/HXRW/LL	113
	2Q716 HX1/HXRW/LL/RR2	110
	2M695 HX1/HXRWLL/RR2	110
<b>Dyna-Gro Seed (UAP Southwest)</b> 3492 Long Prairie Road, Suite 200 Flower Mound, TX 75022 (318) 282-9804 Shawn Carter	DG 58K81	117
	DG 58P27	119
	DG 58P59	116
	DG CXO 6517	117
<b>Eureka Seeds, Inc.</b> P.O. Box 1866 Woodland, CA 95776 (530) 661-6995 Craig Sharp	ESX-7133	117
	ST 7634 RR	118
	ST 7679 RR	116
<b>Golden Acres Genetics</b> P.O. Box 579 Buchanan Dam, TX 78609 (512) 793-5205 James Allison	GA 2841 RRB	117
	GA 28Z89	118
<b>Grand Valley Hybrids</b> 840 23 Road Grand Junction, CO 81505 (970) 216-0635 Bill Rooks	26T50P	120
	X7H110	117
	24B57H	117

## New Mexico 2008 Forage Corn Hybrid Performance Test (cont.)

<b>Company/Brand Name</b>	<b>Hybrid/Variety Name</b>	<b>Relative Maturity (days)</b>
<b>Integra/Wilbur Ellis</b>	9674 RB	117
5601 White Fence Road	9682R	118
Canyon, TX 79015	9691 VT3	119
(806) 341-0333	9701 RBC	120
Steve Kerns	IX07651 VT3	115
	IX07675HX	117
	IX07640BC	114
	IX08650 VT3	114
<hr/>		
<b>Monsanto Company</b>		
800 N. Lindbergh Blvd.	Dekalb DKC 61-69 (VT3)	111
St. Louis, MO 63137	Dekalb DKC 67-87 (RR2/YGCB)	117
(815) 754-4809	Dekalb DKC 69-71 (RR2/YGCB)	119
Diane Freeman		
<hr/>		
<b>Triumph Seed Co., Inc.</b>		
P.O. Box 1050	1802CbRR	118
Ralls, TX 79357	TRX8852HXTRR	112
888-521-7333	TRX8892RR	123
Ben Benton		



## New Mexico 2008 Grain Sorghum Hybrid Performance Test

<b>Company/Brand Name</b>	<b>Hybrid/Variety Name</b>	<b>Maturity Group*</b>
<b>Dyna-Gro Seed (UAP Southwest)</b> 3492 Long Prairie Road, Suite 200 Flower Mound, TX 75022 (318) 282-9804 Shawn Carter	<b>Limited Irrigation:</b>	
	DG 752B	M
	DG762B	M
	DG772B	M
	<b>Dryland:</b>	
	DG 752B	M
	DG762B	M
	DG772B	M
	<b>Sorghum Partners, Inc.</b> P.O. Box 189 New Deal, TX 79350 (806) 746-5566 David Thomas	<b>Limited Irrigation:</b>
NK7633		ML
X510		M
NK7655		ML
NK5418		M
<b>Dryland:</b>		
NK7633		ML
X510	M	
<b>Pioneer Hi-Bred International, Inc.</b> 8100 S. 15th St. Lincoln, NE 68516 (402) 613-0817 Neal Hoss	<b>Dryland:</b>	
	86G32	ME
	85G46	M
	85G03	M

\* E=early, ME=medium early, ML=medium late, L=late or PS=photoperiod sensitive

## New Mexico 2008 Forage Sorghum Hybrid Performance Test

Company/Brand Name	Hybrid/Variety Name	Maturity Group*	Brown Midrib
<b>Coffey Forage Seeds, Inc.</b> 2106 South Date Street Plainview, TX 79072 (806) 293-5304 Brad Smith	<b>Irrigated:</b> FS6810	ML	Y
	<b>Dryland:</b> FS6810	ML	Y
<b>Dyna-Gro Seed (UAP Southwest)</b> 3492 Long Prairie Road, Suite 200 Flower Mound, TX 75022 (318) 282-9804 Shawn Carter	<b>Dryland:</b> DG 710F		
	DG FXO 7350		
	DG FXO 8115		
	<b>Irrigated:</b> DG 710F		
	DG FXO 7350		
	DG FXO 8115		
<b>Eastern Colorado Seeds, LLC</b> P.O. Box 546 Burlington, CO 80807 (719) 342-9316 Clay Smith	<b>Dryland:</b> HP 1010 MS BMR	ML	Y
	HP 95 BMR	M	Y
	<b>Irrigated:</b> HP 1010 MS BMR	ML	Y
	HP 95 BMR	M	Y
<b>Forage First/Land O'Lakes, Inc.</b> P.O. Box 64101 St. Paul, MN 55164	<b>Dryland:</b> FS-5	M	N
	<b>Irrigated:</b> FS-5	M	N
<b>Pioneer Hi-Bred International, Inc.</b> 8100 South 15th St. Lincoln, NE 68516 (402) 613-0817 Neal Hoss	<b>Irrigated:</b> 849F	M	N
<b>Richardson Seed, Ltd.</b> P.O. Box 60 Vega, TX 79092 Chuck Cielencki	<b>Dryland:</b> Dairy Master BMR	ML	Y
	<b>Irrigated:</b> Dairy Master BMR	ML	Y

## New Mexico 2008 Forage Sorghum Hybrid Performance Test (cont.)

Company/Brand Name	Hybrid/Variety Name	Maturity Group*	Brown Midrib
<b>Scott Seed Co.</b> Box 1732 Hereford, TX 79045 (806) 364-3484 Coby Kriegshauser	<b>Irrigated:</b>		
	S.S. Silage	ML	N
	BMR Gold I	ML	Y
<b>Seed, Inc.</b> P.O. Box 60 Sunray, TX 79086	<b>Irrigated:</b>		
	Ribbon Grazer		
<b>Sorghum Partners, Inc.</b> P.O. Box 189 New Deal, TX 79350 (806) 746-5566 David Thomas	<b>Irrigated:</b>		
	NK 300	E	N
	HIKANE II	E	N
	SS 405	L	N
	<b>Dryland:</b>		
	NK 300	E	N
HIKANE II	E	N	

\* E=early, ME=medium early, ML=medium late, L=late or PS=photoperiod sensitive

## New Mexico 2008 Sorghum X Sudangrass Hybrid Performance Test

Company/Brand Name	Hybrid/Variety Name	Maturity Group*	Brown Midrib
<b>Coffey Forage Seeds, Inc.</b> 2106 South Date Street Plainview, TX 79072 (806) 293-5304 Brad Smith	<b>Dryland:</b>		
	EXP 2017 DW	ME	Y
	EXP 2017	M	Y
	EXP 3017	M	Y
	<b>Irrigated:</b>		
	EXP 2017 DW	ME	Y
	EXP 2017	M	Y
	EXP 3017	M	Y
<b>Curtis and Curtis Seed, Inc.</b> 4500 N. Prince Clovis, NM 88101 (575) 762-4759 Chad Howard	<b>Dryland:</b>		
	Wondergraze		N
	Triplegainer BMR		Y
	<b>Irrigated:</b>		
Wondergraze		N	
	Triplegainer BMR		Y
<b>Dyna-Gro Seed UAP</b> 3492 Long Prairie Road, Suite 200 Flower Mound, TX 75022 (318) 282-9804 Shawn Carter	<b>Dryland:</b>		
	DG Danny Boy		Y
	<b>Irrigated:</b>		
	DG Danny Boy		Y
<b>Eastern Colorado Seeds, LLC</b> P.O. Box 546 Burlington, CO 80807 (719) 342-9316 Clay Smith	<b>Dryland:</b>		
	HP 200 BMR	M	Y
	HP 300 BMR PPS	PS	Y
	HP 3030 DW BMR	M	Y
	<b>Irrigated:</b>		
	HP 200 BMR	M	Y
	HP 300 BMR PPS	PS	Y
	HP 3030 DW BMR	M	Y
<b>Scott Seed Co.</b> Box 1732 Hereford, TX 79045 (806) 364-3484 Coby Kriegshauser	<b>Irrigated:</b>		
	BMR Gold II	ML	Y
	Premium Stock LS	PS	N
<b>Sorghum Partners, Inc.</b> P.O. Box 189 New Deal, TX 79350 (806) 746-5566 David Thomas	<b>Dryland:</b>		
	Sordan 79	M	N
	<b>Irrigated:</b>		
	Sordan 79	M	N
	Sordan Headless	PS	N
	Trudan BMR	PS	Y
	Trudan Headless	PS	N

\* E=early, ME=medium early, ML=medium late, L=late or PS=photoperiod sensitive

Appendix B  
Glossary of Terms

ADF (Acid Detergent Fiber): ADF consists primarily of cellulose, lignin and acid detergent fiber crude protein. In the past ADF was used as a predictor of indigestibility of forages, however in recent years, research has indicated that ADF is not as strongly correlated with decreased digestibility as once thought.

Ash: Ash is the percentage of residue (minerals) remaining after all organic matter in a sample has been completely incinerated.

CP (Crude Protein): CP is termed 'crude' because it is not a direct measurement of protein. CP is an estimation of total protein based on the nitrogen content of a sample. This fraction consists of non-protein nitrogen as well.

Days to Half Silk: Days to Half Silk is the number of days from planting until 50% of plants have begun to show silks.

Dry Forage: Dry Forage is green forage converted to a 100% dry matter basis by deducting the amount of Moisture at Harvest.

Ear Height: Ear Height is the average distance from the ground to the base of the ear.

Green Forage: Green Forage is the harvested yield from the entire plot area, except for the basal part of the stem and the roots, multiplied by a conversion factor to convert the harvested plot yield to a per acre equivalent.

Grain Yield: Grain Yield is the harvested grain yield adjusted to a standard moisture and a standard bushel weight then converted to a per acre equivalent. For grain corn, the standard moisture is 15.5% and the standard bushel weight is 56 pounds.

Lodging: Lodging is a visual estimate of the percentage of plants with stalks broken below the head or leaning at an angle in excess of 45 degrees.

Milk/acre (Milk production per acre): Milk/acre is Milk/ton multiplied by Dry Forage (ton/ac).

Milk/ton (Milk production per ton of dry matter forage): Milk/ton is an index of forage quality. Milk/ton is calculated from the Milk2000 Excel spreadsheet <http://www.uwex.edu/ces/forage/pubs/milk2000.xls> (accessed Jan. 12, 2005). This index uses forage analyses (CP, NDF, NDFD 48hr, Starch and non-fiber carbohydrate) to estimate energy content, and DMI and NDFD 48hr to predict milk/ton. Forage corn quality was predicted using the new Milk2006 program.

Moisture at Harvest: Moisture at Harvest is the percentage of the green forage sample or grain sample weight that is moisture at the time of harvest.

NDF (Neutral Detergent Fiber): NDF is an estimate of the total fiber content of the forage. The NDF or cell wall fraction contains cellulose, hemicellulose and lignin. NDF

gives the best estimate of the total fiber content of the feed and is associated with feed intake.

NDFD 48hr (Neutral Detergent Fiber Digestibility - 48hr): NDFD 48hr is a measure of 48 hr digestibility of the NDF component. The NDFD 48 hr procedure employs a 48-hour *in vitro* fermentation. NDFD 48hr is expressed as a percent of NDF.

NE<sub>L</sub> (Net Energy for Lactation): NE<sub>L</sub> is the energy value of feeds for lactating cows.

N Removal: N Removal is the total amount of nitrogen, in pounds per acre, that is removed from the field at harvest.  $N \text{ Removal} = \text{dry forage (t/a)} \times 2000 \times N (\%)$ ; where  $N (\%) = CP (\%) / 6.25$ .

Plant Height: Plant Height is the average height of the plant measured from the ground to the top of the canopy at harvest.

Population: Population is the number of plants per acre based on a count of the number of plants in a plot converted to a per-acre equivalent.

RFV (Relative Feed Value): RFV is an index that estimates the overall quality of the forage to a ruminant. The equation uses ADF to estimate the digestible dry matter content of the forage. This is then combined with an estimate of dry matter intake, which is an estimate of the amount of forage an animal will eat in a given time period. RFV is the most widely used forage quality index in the United States. It is scaled so that full-bloom alfalfa hay would score 100. Typically, hay must score above 150 RFV to be considered 'dairy quality' hay.

RFQ (Relative Forage Quality): RFQ is similar to RFV in that it is an estimate of overall quality of a forage, but it differs in the way it is calculated. It takes total digestible nutrients (TDN) into account rather than DDM calculated from ADF values. This TDN, combined with dry matter intake (DMI), is derived from *in vitro* estimates of digestible fiber. The RFQ value is considered an improved method over RFV and is rapidly becoming the new 'standard' in forage quality testing.

Silk Date: Silk Date is the date when 50% of plants have begun to show silks.

Starch: Starch is the percentage of starch in the forage.

TDN (Total Digestible Nutrients): TDN represents the sum of digestible crude protein, digestible carbohydrates, digestible nitrogen-free extract and digestible fat. TDN is highly correlated with the energy content of the feed and is used in calculations of net energy values.

Test Weight: Test Weight is the bushel weight equivalent of a sample of grain.