

New Mexico 2006 Corn and Sorghum Performance Tests



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

**New Mexico
2006
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 Agriculture and Home Economics
New Mexico State University

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Table of Contents

Introduction	1
Test Locations	3
Test Procedures	3
Results	4
Grain Corn	4
Forage Corn	4
Forage Sorghum	4
Sorghum Sudangrass and Sorghum Sudangrass/Millet	5
Forage Sorghum/Sorghum Sudangrass	5
Grain Sorghum	5
Appendix A. Companies and Contact Information for Paid Participants in the Agricultural Science Center Fee-Test Program	60
Appendix B. Glossary of Terms	69

List of Tables

Table 1. Historical average monthly precipitation (inches) and temperatures (°F) for cooperating agricultural science centers	2
Table 2A-B. New Mexico 2006 grain corn performance test - Agricultural Science Center at Clovis	7
Table 3A-B. New Mexico 2006 early season grain corn performance test - Agricultural Science Center at Farmington	10
Table 4A-B. New Mexico 2006 full season grain corn performance test - Agricultural Science Center at Farmington	13
Table 5A-B. New Mexico 2006 grain corn performance test - Agricultural Science Center at Los Lunas	15
Table 6A-B. New Mexico 2006 early season forage corn performance test - Agricultural Science Center at Artesia	17
Table 7A-B. New Mexico 2006 full season forage corn performance test - Agricultural Science Center at Artesia	19
Table 8A-B. New Mexico 2006 forage corn performance test - Agricultural Science Center at Clovis	21
Table 9A-C. New Mexico 2006 forage corn performance test - Agricultural Science Center at Farmington	24
Table 10A-B. New Mexico 2006 forage corn performance test - Agricultural Science Center at Los Lunas	29
Table 11A-B. New Mexico 2006 forage sorghum performance test - Agricultural Science Center at Artesia	32

Table 12A-B. New Mexico 2006 forage sorghum performance test - Agricultural Science Center at Clovis.....	34
Table 13A-B. New Mexico 2006 forage sorghum performance test - Agricultural Science Center at Los Lunas	37
Table 14A-C. New Mexico 2006 sorghum sudangrass performance test - Agricultural Science Center at Artesia	39
Table 15A-C. New Mexico 2006 sorghum sudangrass/millet performance test - Agricultural Science Center at Clovis.....	42
Table 16A-C. New Mexico 2006 dryland forage sorghum/sorghum sudangrass performance test - Agricultural Science Center at Tukumcari	45
Table 17A-B. New Mexico 2006 full irrigation grain sorghum performance test - Agricultural Science Center at Clovis.....	48
Table 18A-B. New Mexico 2006 limited irrigation grain sorghum performance test - Agricultural Science Center at Clovis.....	50
Table 19A-B. New Mexico 2006 irrigated grain sorghum performance test - Agricultural Science Center at Los Lunas	52
Table 20A-B. New Mexico 2006 full irrigation grain sorghum performance test - Agricultural Science Center at Tukumcari.....	54
Table 21A-B. New Mexico 2006 limited irrigation grain sorghum performance test - Agricultural Science Center at Tukumcari.....	56
Table 22A-B. New Mexico 2006 dryland grain sorghum performance test - Agricultural Science Center at Tukumcari.....	58

List of Figures

Figure 1. Corn and sorghum testing locations.....	1
Figure 2. Climate zones in New Mexico	1

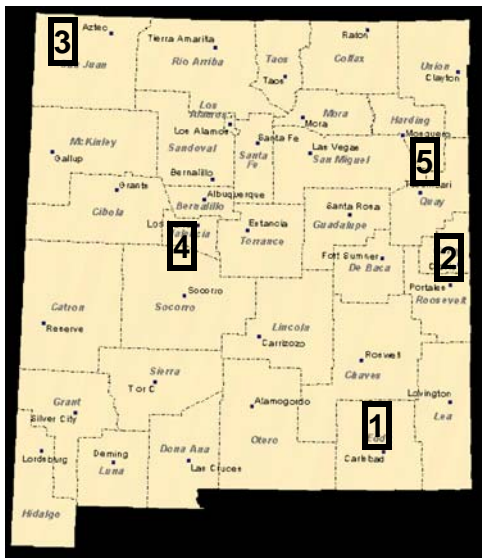
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INTRODUCTION

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 2006 (Figure 1). In addition, on-farm forage corn and sorghum x sudangrass strip trials were conducted at several locations throughout the state. This report contains only information from the Agricultural Science Center 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.

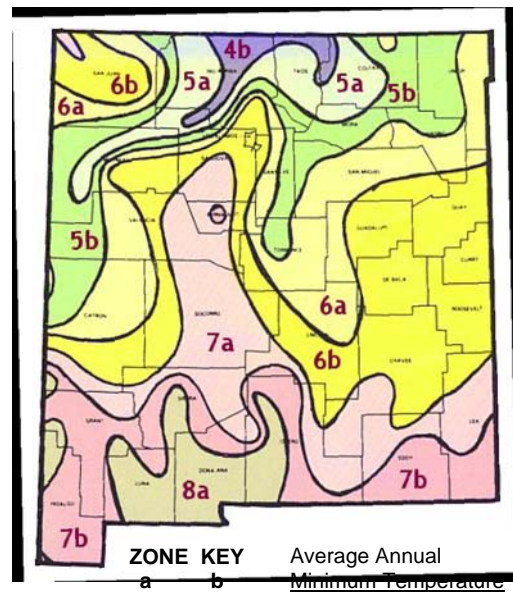


Table 1. Historical average monthly precipitation (inches) and temperatures (°F) for cooperating agricultural science centers.					
	Artesia	Clovis	Farmington	Los Lunas	Tucumcari
Precipitation (inches)					
January	0.40	0.35	0.49	0.37	0.37
February	0.42	0.38	0.57	0.43	0.47
March	0.45	0.69	0.74	0.53	0.74
April	0.61	0.84	0.70	0.47	1.14
May	1.25	1.99	0.57	0.46	2.02
June	1.45	2.39	0.21	0.63	1.90
July	1.60	2.81	0.88	1.24	2.63
August	1.77	2.97	1.15	1.71	2.70
September	1.77	1.85	1.09	1.19	1.56
October	1.20	1.64	0.91	1.07	1.29
November	0.51	0.56	0.81	0.50	0.69
December	0.47	0.48	0.44	0.49	0.55
Total	11.90	16.97	8.56	9.09	16.05
Average Temperature (°F)					
January	40.2	38.1	31.0	34.7	38.4
February	44.9	41.6	36.3	40.1	42.0
March	51.6	47.8	43.6	46.9	48.9
April	60.4	56.2	51.1	54.5	57.4
May	69.4	65.0	60.2	63.1	66.1
June	77.6	73.6	69.8	71.9	75.4
July	79.9	76.5	75.4	76.5	78.9
August	78.3	74.7	72.9	74.5	77.2
September	71.4	68.6	65.8	67.2	70.5
October	60.9	58.4	53.8	55.7	59.5
November	48.8	46.3	40.5	43.4	47.3
December	40.9	39.1	31.3	35.0	39.1
Average	60.4	57.2	52.6	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 2006 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, (505) 985-2292, clovis@nmsu.edu. Entry forms for the 2007 corn and sorghum performance tests will be mailed to seed companies in January 2007. Additional 2007 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 (RCB) designs. 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 2006 corn and sorghum hybrid/variety tests are shown in Tables 2-22. Results are presented on 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 24 entries. Mean grain yield was 256 bu/ac and significant yield differences were observed (Table 2A-B).

Two grain corn tests were conducted at Farmington. The early season grain corn test contained 22 entries. Mean grain yield was 165 bu/ac and yields were different. (Table 3A-B). Farmington's full-season grain corn test consisted of 14 entries. Mean grain yield was 181 bu/ac and yield differences among hybrids were not significant (Table 4A-B).

The grain corn test at Los Lunas contained 8 hybrids, which produced a mean grain yield of 279 bu/ac (Table 5A-B). There were yield differences for grain corn entries at Los Lunas.

Forage Corn

Forage corn tests were conducted at the Agricultural Science Centers at Artesia, Clovis, Farmington and Los Lunas.

Two forage corn tests were conducted at Artesia. The Artesia early season forage corn test consisted of 16 entries. Mean dry forage yield was 11.3 ton/ac and yield and forage quality differences were observed (Table 6A-B). Artesia's late season forage corn test consisted of 16 entries. Dry forage averaged 7.6 ton/ac for the trial; however no differences occurred among yields (Table 7A-B).

There were 32 entries in the Clovis forage corn test. Mean dry forage yield was 12.2 ton/ac (Table 8A-B). Hybrids differed in nutrient composition and yield.

Twenty-eight hybrids were evaluated in the Farmington forage corn test. Dry forage yield averaged 7.2 ton/ac and yields varied among hybrids (Table 9A-C). Differences were observed for most measures of nutrient composition.

The Los Lunas forage corn test was comprised of 26 hybrids. Mean dry forage yield was 10.1 ton/ac and dry forage yields did not differ among the hybrids (Table 10A-B).

Forage Sorghum

Entries for irrigated forage sorghum evaluations were accepted at the Agricultural Science Centers at Artesia, Clovis and Los Lunas. There were 8 entries in the forage

sorghum test at Artesia. Mean dry forage yield was 7.4 ton/ac (Table 11A-B). Forage yields were not different among the entries.

At Clovis, there were 24 entries in the forage sorghum test. Mean dry forage yield was 7.3 ton/ac and differences were observed for yield and nutritive parameters (Table 12A-B).

Los Lunas had two entries in its forage sorghum test. Mean dry forage yield was 8.2 ton/ac (Table 13A-B). Yield and quality parameters were not different between the two entries.

Sorghum Sudangrass and Sorghum Sudangrass/Millet

Entries for sorghum sudangrass tests were accepted by the Agricultural Science Centers at Artesia and Clovis. At Clovis, sorghum sudangrasses and millets were combined together in the same trial and were harvested at the late boot stage of maturity. All plots were harvested twice at both locations.

There were five entries in the sorghum sudangrass test at Artesia. Plots were harvested on July 7 and August 28 and mean dry forage yields were 4.2 and 6.1 ton/ac for first and second harvests, respectively (Table 14A-C). Forage yield differences were not significant for the first harvest, but were significant for the second.

The sorghum sudangrass/millet test at Clovis contained 15 entries, 12 sorghum sudangrasses and 3 pearl millets. First harvests were conducted on July 27, July 31 and August 7 for the grasses, and mean dry forage was 3.9 ton/ac (Table 15A-C). Second cuttings for all plots occurred on October 3. Mean dry forage yield was 3.4 ton/ac at the second cutting. Differences were observed for most measures of nutritive quality.

Forage Sorghum and Sorghum Sudangrass

A combined irrigated forage sorghum-sorghum sudangrass test, containing 10 entries, was established at the Agricultural Science Center at Tukumcari. The test was planted on May 16 and harvested on July 26 and October 13. Dry forage yields averaged 2.2 ton/ac and 1.6 ton/ac for the first and second cuttings, respectively (Table 16A-C). Differences occurred for yields and most nutritive value parameters.

Grain Sorghum

Grain sorghum tests were conducted at Clovis, Los Lunas, and Tukumcari science centers in 2006. Clovis and Tukumcari sites contained both limited and full irrigation trials, and Los Lunas tested grain sorghum only under full irrigation. Tukumcari had a dryland test also. It should be noted that the dryland test at Tukumcari 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.

At Clovis, 16 grain sorghum varieties were entered into the full irrigation test and 7 into the limited trial. Mean yields were 111 and 81 bu/ac for the full and limited irrigation

trials, respectively (Table 17A-B). Under full irrigation (14.4 in.), yields ranged from 70 to 158 bu/ac. The limited irrigation trial was watered with 8.9 inches of in-season irrigation, and yields ranged from 63 to 112 bu/ac (Table 18A-B).

The Los Lunas grain sorghum test contained two entries in 2006 (Table 19A-B). Mean yield was 167 bu/ac, and no differences were observed between the two varieties.

The full irrigated grain sorghum test at Tucumcari was irrigated three times during the growing season and resulted in a mean 86 bu/ac for the four entries (Table 20A-B). A total of 18 inches of water was applied. The limited irrigated test was irrigated twice in-season (12 inches total) and yielded an average 80 bu/ac (Table 21A-B). The one irrigation of 6 inches after planting in the dryland trial aided in establishment; however, it is uncertain whether or not it contributed to substantially improving overall yields, which averaged 34 bu/ac (Table 22A-B).

Table 2A. New Mexico 2006 Grain Corn Performance Test - Agricultural Science Center at Clovis

Investigators: R.E. Kirksey, M.A. Marsalis, A. Scott, and N. Pryor

Test Description

Location:	Management Practices:	Growing Conditions:
County/Area: Curry	Previous Crop: Fallow	
Longitude: -103.22	Planting Date: 25-Apr	
Latitude: 34.60	Harvest Date: 20-Oct	
Elevation: 4435 ft.		
Soil Name: Olton		
Soil Texture: clay loam		
Soil Depth: >60 in.		
	Production Inputs	
	<u>Rate</u> <u>Date</u>	
	Fertilizer:	
	Nitrogen 285 lb/a 21-Apr	
	P ₂ O ₅ 60 lb/a 21-Apr	
	S 48 lb/a 21-Apr	
	Chelated Zn 0.74 lb/a 21-Apr	
	Herbicides:	
	Bicep Lite II Mag 1.5 qts/a 26-Apr	
	Permit 1 oz/a 8-Jun	
	Insecticides:	
	Comite II 1.5 pt/a 8-Jun	
	Intrepid 6 oz/a 31-Jul	
	Oberon 8.5 oz/a 31-Jul	
Test Design:		
Replications: 4		
Plot Length: 20 ft.		
Rows per Plot: 2		
Row Spacing: 30 in.		
Seeding Rate: 32,000 seed/a		
		<u>Average</u>
		Temp. Precip. Irrigation
		°F in. in.
		January 42.8 0.00
		February 40.9 0.09
		March 48.0 0.61
		April 59.8 0.25 4.50
		May 68.5 0.56 2.00
		June 76.0 0.68 8.50
		July 77.0 0.66 7.85
		August 73.0 4.89 2.00
		September 67.5 1.90
		October 55.0 1.78
		November 47.0 0.06
		December 36.0 1.20
		Seasonal Precipitation: 10.7 in.
		Total Irrigation: 24.9 in.
		Date of Last Spring Frost: 25-Apr
		Date of First Fall Frost: 13-Oct
		Frost Free Period: 171 days

Table 2B. New Mexico 2006 Grain Corn Performance Test - Agricultural Science Center at Clovis**Results**

Brand/Company Name	Hybrid/Variety Name	Grain Yield bu/a	Moisture	Test Weight lb/bu	Plant Height in	Ear Height in
			at Harvest %			
Garst Seed Co.	8247YG1	295.2	18.5	58.9	121.3	48.8
Dyna-Gro Seed	58P59	274.7	18.4	56.1	115.5	45.5
Eureka Seeds	X5087RR	274.6	18.6	56.6	122.3	53.0
Grand Valley Hybrids	14B75	270.0	18.3	58.8	115.8	52.5
Dyna-Gro Seed	58P60	268.2	19.1	58.3	111.3	51.8
NC+ Hybrids	NC+ 6361RB	267.2	19.6	55.4	113.0	47.0
Grand Valley Hybrids	X7RP12	261.2	16.7	60.6	118.3	45.0
Dyna-Gro Seed	58K40	260.9	20.6	56.9	123.0	57.3
Dyna-Gro Seed	58K22	260.7	18.5	58.1	119.3	53.3
Eureka Seeds	X6033RR	260.6	17.4	58.5	116.5	47.8
Grand Valley Hybrids	X6H25	258.0	17.1	57.2	114.5	44.8
Garst Seed Co.	8377YG1/RR	256.8	17.9	57.5	113.0	43.8
Dyna-Gro Seed	CX05917	256.8	17.0	59.4	115.8	46.8
NC+ Hybrids	NC+ 6125RBD	255.5	18.8	58.1	107.8	40.8
Monsanto	Dekalb DKC 66-23 (RR2/YGCB)	248.8	17.3	58.1	111.0	40.0
Dyna-Gro Seed	CX05819	247.5	18.9	58.1	113.0	50.0
Dyna-Gro Seed	58K02	247.0	18.9	56.9	112.3	47.5
Grand Valley Hybrids	25P00	246.4	18.7	56.3	110.8	41.8
Grand Valley Hybrids	23P95	245.4	17.2	58.3	106.8	37.3
Monsanto	Dekalb DKC 64-81 (YGCB)	243.4	17.2	58.4	103.0	37.5

Table 2B (cont.). New Mexico 2006 Grain Corn Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Grain Yield	Moisture		Test Weight	Plant Height	Ear Height
			at Harvest	%			
		bu/a			lb/bu	in	in
Dyna-Gro Seed	CX05516	240.8	17.7		59.6	117.0	45.5
Dyna-Gro Seed	CX06319	240.1	20.2		57.1	107.0	43.5
Monsanto	Asgrow RX752 RR/YG	235.4	17.4		57.7	107.3	38.8
Eureka Seeds	7539RR	225.1	16.7		59.1	110.8	40.3
	Trial Mean	255.8	18.2		57.9	113.6	45.8
	LSD	29.8	1.1		1.2	6.6	4.6
	LSD P >	0.05	0.05		0.05	0.05	0.05
	CV	8.3	4.3		1.4	4.1	7.2
	F Test	0.0133	<0.0001		<0.0001	<0.0001	<0.0001

Table 3A. New Mexico 2006 Early Season Grain Corn Performance Test - Agricultural Science Center at Farmington

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

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: small grain Planting Date: 17-May Harvest Date: 7-Dec <hr/> 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>10 lb/a</td> <td>24-Mar</td> </tr> <tr> <td>Nitrogen</td> <td>19 lb/a</td> <td>14-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>32 lb/a</td> <td>21-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>30 lb/a</td> <td>29-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>30 lb/a</td> <td>11-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>39 lb/a</td> <td>19-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>39 lb/a</td> <td>7-Aug</td> </tr> <tr> <td>P2O5</td> <td>52 lb/a</td> <td>24-Mar</td> </tr> <tr> <td>K2O</td> <td>60 lb/a</td> <td>24-Mar</td> </tr> <tr> <td>S</td> <td>6 lb/a</td> <td>24-Mar</td> </tr> <tr> <td>Zn</td> <td>1 lb/a</td> <td>24-Mar</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Bicep Lite II Mag</td> <td>2.5 pt/a</td> <td>26-May</td> </tr> <tr> <td>Lo Vol 6</td> <td>2 oz/a</td> <td>26-May</td> </tr> <tr> <td>Clarity</td> <td>2 oz/a</td> <td>26-May</td> </tr> <tr> <td colspan="3">Insecticides: None</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	10 lb/a	24-Mar	Nitrogen	19 lb/a	14-Jun	Nitrogen	32 lb/a	21-Jun	Nitrogen	30 lb/a	29-Jun	Nitrogen	30 lb/a	11-Jul	Nitrogen	39 lb/a	19-Jul	Nitrogen	39 lb/a	7-Aug	P2O5	52 lb/a	24-Mar	K2O	60 lb/a	24-Mar	S	6 lb/a	24-Mar	Zn	1 lb/a	24-Mar	Herbicides:			Bicep Lite II Mag	2.5 pt/a	26-May	Lo Vol 6	2 oz/a	26-May	Clarity	2 oz/a	26-May	Insecticides: None			<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>65.1</td><td>0.09</td><td>1.00</td></tr> <tr><td>June</td><td>74.3</td><td>0.24</td><td>5.20</td></tr> <tr><td>July</td><td>77.6</td><td>1.90</td><td>8.00</td></tr> <tr><td>August</td><td>72.6</td><td>0.79</td><td>9.70</td></tr> <tr><td>September</td><td>61.1</td><td>1.38</td><td>3.10</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>4.40 in.</td> <td></td> </tr> <tr> <td>Total Irrigation</td> <td></td> <td>27.0 in.</td> <td></td> </tr> <tr> <td>Date of Last Spring Freeze</td> <td colspan="2">20-Apr</td> <td></td> </tr> <tr> <td>Date of First Fall Freeze</td> <td colspan="2">23-Sep</td> <td></td> </tr> <tr> <td>Frost Free Period</td> <td colspan="2">156 days</td> <td></td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March				April				May	65.1	0.09	1.00	June	74.3	0.24	5.20	July	77.6	1.90	8.00	August	72.6	0.79	9.70	September	61.1	1.38	3.10	October				November				December				Seasonal Precipitation		4.40 in.		Total Irrigation		27.0 in.		Date of Last Spring Freeze	20-Apr			Date of First Fall Freeze	23-Sep			Frost Free Period	156 days		
	Rate	Date																																																																																																																														
Fertilizer:																																																																																																																																
Nitrogen	10 lb/a	24-Mar																																																																																																																														
Nitrogen	19 lb/a	14-Jun																																																																																																																														
Nitrogen	32 lb/a	21-Jun																																																																																																																														
Nitrogen	30 lb/a	29-Jun																																																																																																																														
Nitrogen	30 lb/a	11-Jul																																																																																																																														
Nitrogen	39 lb/a	19-Jul																																																																																																																														
Nitrogen	39 lb/a	7-Aug																																																																																																																														
P2O5	52 lb/a	24-Mar																																																																																																																														
K2O	60 lb/a	24-Mar																																																																																																																														
S	6 lb/a	24-Mar																																																																																																																														
Zn	1 lb/a	24-Mar																																																																																																																														
Herbicides:																																																																																																																																
Bicep Lite II Mag	2.5 pt/a	26-May																																																																																																																														
Lo Vol 6	2 oz/a	26-May																																																																																																																														
Clarity	2 oz/a	26-May																																																																																																																														
Insecticides: None																																																																																																																																
	Average Temp. °F	Precip. in.	Irrigation in.																																																																																																																													
January																																																																																																																																
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September	61.1	1.38	3.10																																																																																																																													
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Total Irrigation		27.0 in.																																																																																																																														
Date of Last Spring Freeze	20-Apr																																																																																																																															
Date of First Fall Freeze	23-Sep																																																																																																																															
Frost Free Period	156 days																																																																																																																															

Table 3B. New Mexico 2006 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
Dyna-Gro Seed	56P24	193.1	14.1	54.1	98	46	32028	9-Aug	83	1	108
Dyna-Gro Seed	55P86	190.5	13.3	54.9	103	46	33949	6-Aug	80	7	104
Eureka Seeds	X6033RR	188.0	15.5	54.8	111	47	31643	11-Aug	85	7	116
NC+ Hybrids	NC+ 3801R	179.2	12.6	53.2	105	46	30490	10-Aug	84	3	107
NC+ Hybrids	NC+ 1773RB	177.9	12.0	55.8	87	37	33309	6-Aug	80	0	97
Garst Seed Co.	7663YG1/RR	177.7	12.9	54.8	105	41	31899	7-Aug	81	3	109
Pioneer Hi-Bred Int. Inc.	36K69 (HX1/LL/RR2)	176.0	13.0	56.4	94	35	32028	4-Aug	78	0	103
Pioneer Hi-Bred Int. Inc.	36W67 (HX1/LL)	172.2	13.0	54.8	100	36	32156	4-Aug	78	0	102
Dyna-Gro Seed	55P41	171.9	12.3	54.7	101	39	29850	8-Aug	82	11	101
Garst Seed Co.	8688GT	169.9	13.5	56.1	98	35	31771	5-Aug	79	0	104
Monsanto	Dekalb DKC55-82 (RR2)	168.5	12.9	56.4	101	47	32668	9-Aug	83	4	105
Monsanto	Dekalb DKC52-40 (RR2/YGPL)	166.4	11.8	54.4	92	36	33693	7-Aug	81	0	102
Monsanto	Dekalb DKC58-19 (RR2)	165.5	12.9	54.9	100	41	32668	6-Aug	80	9	108
Monsanto	Dekalb DKC51-39 (RR2/YGPL)	164.4	11.8	54.0	88	34	31643	5-Aug	79	2	101
Monsanto	Dekalb DKC48-53 (RR2/YGCB)	159.8	12.0	54.4	93	38	30746	2-Aug	76	10	98
NC+ Hybrids	NC+ 2163RB	154.3	12.3	54.7	103	39	29209	6-Aug	80	6	100
Eureka Seeds	7539RR	153.9	15.5	51.9	100	35	33693	11-Aug	85	5	116
Pioneer Hi-Bred Int. Inc.	38H65 (HX1/LL/RR2)	147.8	12.5	55.0	85	34	31899	1-Aug	75	0	99
Pioneer Hi-Bred Int. Inc.	37D26 (HX1/LL/RR2)	147.5	11.8	55.1	92	41	29978	2-Aug	76	7	97
NC+ Hybrids	NC+ 1993RB	146.0	12.6	54.8	96	35	32540	7-Aug	81	5	100

Table 3B (cont.). New Mexico 2006 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
Garst Seed Co.	8745YG1/RR	143.1	12.4	54.5	101	35	32540	6-Aug	80	7	101
Dyna-Gro Seed	57P69	125.0	12.2	53.5	105	38	30490	8-Aug	82	0	112
	Trial Mean	165.4	12.9	54.7	98	39	31859	6-Aug	80	4	104
	LSD	35.5	0.8	1.7	11	10	2632	3	3	ns	-
	LSD P>	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-
	CV	13.0	3.8	1.9	6.7	14.9	5.0	0.9	2.5	116.6	-
	F Test	0.0421	<0.0001	0.0016	0.0010	0.0456	0.0301	<0.0001	<0.0001	0.0686	-

Table 4A. New Mexico 2006 Full Season Grain Corn Performance Test - Agricultural Science Center at Farmington

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

Test Description

Location:	Management Practices:	Growing Conditions:
County/Area: San Juan	Previous Crop: small grain	
Longitude: -108.3061	Planting Date: 18-May	
Latitude: 36.6812	Harvest Date: 8-Dec	
Elevation: 5,640 ft.		
Soil Name: Wall		
Soil Texture: sandy loam		
Soil Depth: > 75 in.		
	<u>Production Inputs</u>	
	Rate Date	
	Fertilizer:	
	Nitrogen 10 lb/a 24-Mar	
	Nitrogen 19 lb/a 14-Jun	
	Nitrogen 32 lb/a 21-Jun	
	Nitrogen 30 lb/a 29-Jun	
	Nitrogen 30 lb/a 11-Jul	
	Nitrogen 39 lb/a 19-Jul	
	Nitrogen 39 lb/a 7-Aug	
	P2O5 52 lb/a 24-Mar	
	K2O 60 lb/a 24-Mar	
	S 6 lb/a 24-Mar	
	Zn 1 lb/a 24-Mar	
	Herbicides:	
	Bicep Lite II Mag 2.5 pt/a 26-May	
	Lo Vol 6 2 oz/a 26-May	
	Clarity 2 oz/a 26-May	
	Insecticides: None	
		Average
		Temp. Precip. Irrigation
		°F in. in.
		January
		February
		March
		April
		May 65.1 0.09 1.00
		June 74.3 0.24 5.20
		July 77.6 1.90 8.00
		August 72.6 0.79 9.70
		September 61.1 1.38 3.10
		October
		November
		December
		Seasonal Precipitation: 4.40 in.
		Total Irrigation: 27.0 in.
		Date of Last Spring Freeze: 20-Apr
		Date of First Fall Freeze: 23-Sep
		Frost Free Period: 156 days

Test Design:

Replications: 3
 Plot Length: 20 ft.
 Rows per Plot: 4
 Row Spacing: 34 in.
 Seeding Rate: 35000 seed/a

Table 4B. New Mexico 2006 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
Dyna-Gro Seed	58P59	211.5	15.7	51.5	117	52	30234	10-Aug	83	14	116
Garst Seed Co.	8377YG1/RR	197.2	14.6	54.3	106	45	33309	8-Aug	81	2	115
Dyna-Gro Seed	CXO5917	197.0	15.1	53.4	119	57	31387	14-Aug	87	5	116
Dyna-Gro Seed	57P12	190.8	16.0	51.4	113	47	30618	11-Aug	84	9	116
Pioneer Hi-Bred Int. Inc.	35F38	190.7	14.3	57.2	103	35	31387	4-Aug	78	0	104
Garst Seed Co.	8534YG1/GT	187.2	13.6	54.3	100	43	32796	5-Aug	78	1	108
Pioneer Hi-Bred Int. Inc.	35A31 (HX1/LL)	186.9	14.1	57.4	108	38	29850	8-Aug	81	0	104
Dyna-Gro Seed	CXO5819	183.3	16.2	53.9	115	60	30875	11-Aug	84	9	116
Dyna-Gro Seed	CXO6715	179.6	13.1	53.3	110	43	29593	9-Aug	82	1	116
Pioneer Hi-Bred Int. Inc.	34A16 (HX1/LL)	177.7	14.8	55.7	104	38	35230	10-Aug	83	3	110
NC+ Hybrids	NC+ 4947RB	167.3	15.0	53.3	102	39	31387	8-Aug	82	5	111
Eureka Seeds	X5087RR	162.5	17.7	50.1	119	53	23316	14-Aug	87	6	.
Dyna-Gro Seed	57K39	156.4	14.4	51.6	108	46	32028	11-Aug	84	2	115
Dyna-Gro Seed	CXO5516	146.6	17.2	52.4	108	48	28825	15-Aug	88	5	116
	Trial Mean	181.0	15.1	53.6	109	46	30773	10-Aug	83	4	113
	LSD	ns	1.8	2.5	9	7	3184	4	4	7	-
	LSD P>	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	-
	CV	14.3	7.2	2.8	4.8	8.8	6.2	1.1	2.9	103.4	-
	F Test	0.2200	0.0006	0.0001	0.0008	<0.0001	<0.0001	0.0002	0.0002	0.0288	-

Table 5A. New Mexico 2006 Grain Corn Performance Test - Agricultural Science Center at Los Lunas

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

Test Description

Location:	Management Practices:	Growing Conditions:																																																																																
County/Area: Valencia Longitude: -106.45 Latitude: 34.46 Elevation: 4840 ft. Soil Name: Gila Soil Texture: Coarse loam Soil Depth: 60 in.	Previous Crop: Alfalfa Planting Date: 9-May Harvest Date: 3-Oct <hr/> 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 style="text-align: center;">51 lb/a</td> <td style="text-align: center;">22-Feb</td> </tr> <tr> <td>Nitrogen</td> <td style="text-align: center;">106 lb/a</td> <td style="text-align: center;">24-May</td> </tr> <tr> <td>Nitrogen</td> <td style="text-align: center;">155 lb/a</td> <td style="text-align: center;">8-Jun</td> </tr> <tr> <td>P2O5</td> <td style="text-align: center;">25 lb/a</td> <td style="text-align: center;">22-Feb</td> </tr> <tr> <td>K2O</td> <td style="text-align: center;">25 lb/a</td> <td style="text-align: center;">22-Feb</td> </tr> <tr> <td>K2O</td> <td style="text-align: center;">128 lb/a</td> <td style="text-align: center;">28-Mar</td> </tr> </tbody> </table> Herbicides: Bladex 1 qt/a 9-May Clarity 8 oz/a 9-May Atrazine 1 qt/a 9-May Atrazine 1 qt/a 2-Jun Distint 4 oz/a 2-Jun		Rate	Date	Fertilizer:			Nitrogen	51 lb/a	22-Feb	Nitrogen	106 lb/a	24-May	Nitrogen	155 lb/a	8-Jun	P2O5	25 lb/a	22-Feb	K2O	25 lb/a	22-Feb	K2O	128 lb/a	28-Mar	<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 style="text-align: center;">36.5</td><td style="text-align: center;">0.03</td><td></td></tr> <tr><td>February</td><td style="text-align: center;">41.3</td><td style="text-align: center;">0.00</td><td></td></tr> <tr><td>March</td><td style="text-align: center;">47.4</td><td style="text-align: center;">0.28</td><td></td></tr> <tr><td>April</td><td style="text-align: center;">59.0</td><td style="text-align: center;">0.05</td><td></td></tr> <tr><td>May</td><td style="text-align: center;">68.3</td><td style="text-align: center;">0.00</td><td style="text-align: center;">6.00</td></tr> <tr><td>June</td><td style="text-align: center;">76.1</td><td style="text-align: center;">0.86</td><td style="text-align: center;">6.00</td></tr> <tr><td>July</td><td style="text-align: center;">79.1</td><td style="text-align: center;">2.49</td><td style="text-align: center;">6.00</td></tr> <tr><td>August</td><td style="text-align: center;">74.2</td><td style="text-align: center;">2.84</td><td style="text-align: center;">3.00</td></tr> <tr><td>September</td><td style="text-align: center;">64.1</td><td style="text-align: center;">0.51</td><td style="text-align: center;">6.00</td></tr> <tr><td>October</td><td style="text-align: center;">55.2</td><td style="text-align: center;">1.59</td><td></td></tr> <tr><td>November '05</td><td style="text-align: center;">44.7</td><td style="text-align: center;">0.00</td><td></td></tr> <tr><td>December '05</td><td style="text-align: center;">35.6</td><td style="text-align: center;">0.08</td><td></td></tr> </tbody> </table> <table style="width: 100%;"> <tr> <td style="width: 60%;">Seasonal Precipitation</td> <td style="text-align: right;">6.8 in.</td> </tr> <tr> <td>Total Irrigation</td> <td style="text-align: right;">27.0 in.</td> </tr> </table> Date of Last Spring Frost: 21-Apr Date of First Fall Frost: 19-Sep Frost Free Period: 151 days		Average Temp. °F	Precip. in.	Irrigation in.	January	36.5	0.03		February	41.3	0.00		March	47.4	0.28		April	59.0	0.05		May	68.3	0.00	6.00	June	76.1	0.86	6.00	July	79.1	2.49	6.00	August	74.2	2.84	3.00	September	64.1	0.51	6.00	October	55.2	1.59		November '05	44.7	0.00		December '05	35.6	0.08		Seasonal Precipitation	6.8 in.	Total Irrigation	27.0 in.
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Total Irrigation	27.0 in.																																																																																	
Test Design: Replications: 4 Plot Length: 10 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 30000 seed/a																																																																																		

Table 5B. New Mexico 2006 Grain Corn Performance Test - Agricultural Science Center at Los Lunas

Results

Brand/Company Name	Hybrid/Variety Name	Moisture		Test Weight	Plant Height	Ear Height	Silk Date	Lodging
		Grain Yield	at Harvest					
		bu/a	%	lb/bu	in	in		%
NC+ Hybrids	NC+ 5433RB	308.3	20.1	54.8	91	43	13-Jul	0
Eureka Seeds	X6033RR	301.4	20.8	56.0	98	51	16-Jul	0
Eureka Seeds	7539RR	300.1	19.1	54.4	91	40	14-Jul	0
Monsanto	Dekalb DKC64-81(YGCB)	279.2	19.9	56.8	81	35	13-Jul	0
Monsanto	Asgrow RX752RR/YG	272.8	17.9	56.8	87	36	12-Jul	4.5
NC+ Hybrids	NC+ 6125RBD	267.4	21.9	55.2	91	41	17-Jul	0
Monsanto	Dekalb DKC66-23(RR2/YGCB)	256.7	19.5	55.6	93	37	13-Jul	0
Eureka Seeds	X5087RR	248.0	20.6	54.4	94	52	18-Jul	0
	Trial Mean	279.2	20.0	55.5	91	42	14-Jul	0.6
	LSD	38.6	1.4	1.5	8	5	1	3
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	9.4	4.8	1.8	6.0	8.4	0.5	346.0
	F Test	0.0296	0.0004	0.0078	0.0118	<0.0001	<0.0001	0.0381

Table 6A. New Mexico 2006 Early Forage Corn Performance Test - Agricultural Science Center at Artesia

Investigators: R. Flynn and C.A. French

Test Description

<p>Location: County/Area: Eddy Longitude: -104.38 Latitude: 32.75 Elevation: 3348 ft. Soil Name: Reeves Soil Texture: loam Soil Depth: 60 in.</p> <p>Test Design: Replications: 4 Plot Length: 25 ft. Rows per Plot: 2 Row Spacing: 40 in. Seeding Rate: 39000 seeds/a</p>	<p>Management Practices: Previous Crop: Cotton</p> <p>Planting Date: 18-Apr Harvest Date: 25-Aug</p> <p>Production Inputs</p> <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>191 lb/a</td> <td>22-May 31-May 14-Jun</td> </tr> <tr> <td>P2O5</td> <td>64 lb/a</td> <td>15-Mar</td> </tr> </tbody> </table> <p>Herbicides: None</p> <p>Insecticides: None</p>		Rate	Date	Fertilizer:			Nitrogen	191 lb/a	22-May 31-May 14-Jun	P2O5	64 lb/a	15-Mar	<p>Growing Conditions:</p> <table border="1"> <thead> <tr> <th></th> <th colspan="3">Average</th> </tr> <tr> <th></th> <th>Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>44.1</td><td>0.00</td><td></td></tr> <tr><td>February</td><td>45.4</td><td>0.21</td><td></td></tr> <tr><td>March</td><td>53.7</td><td>0.35</td><td>7.00</td></tr> <tr><td>April</td><td>64.2</td><td>0.18</td><td>5.00</td></tr> <tr><td>May</td><td>73.2</td><td>0.16</td><td>7.10</td></tr> <tr><td>June</td><td>79.2</td><td>1.57</td><td>5.60</td></tr> <tr><td>July</td><td>80.7</td><td>1.24</td><td>2.70</td></tr> <tr><td>August</td><td>78.4</td><td>2.61</td><td></td></tr> <tr><td>September</td><td>66.9</td><td>3.16</td><td></td></tr> <tr><td>October</td><td>59.7</td><td>1.04</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: 10.5 Total Irrigation: 27.4</p> <p>Date of Last Spring Frost: 25-Mar Date of First Fall Frost: 28-Oct Frost Free Period: 217 days</p>		Average				Temp. °F	Precip. in.	Irrigation in.	January	44.1	0.00		February	45.4	0.21		March	53.7	0.35	7.00	April	64.2	0.18	5.00	May	73.2	0.16	7.10	June	79.2	1.57	5.60	July	80.7	1.24	2.70	August	78.4	2.61		September	66.9	3.16		October	59.7	1.04		November				December			
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December																																																																						

Table 6B. New Mexico 2006 Early Forage Corn Performance Test - Agricultural Science Center at Artesia

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	NDFD			Ash	TDN	NE _l	Milk Per Ton	Milk Per Acre	N Uptake
		Dry Forage	Green Forage	at Harvest		NDF	48hr	Starch						
		t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/ac	lb/A	
NC+ Hybrids	NC+6361RB	14.2	32.1	55.9	8.8	44.5	55.0	30.3	7.2	64.1	0.622	2759	39313	268
NC+ Hybrids	NC+7373RB	13.7	34.6	60.8	9.0	48.7	56.1	25.9	6.4	63.6	0.613	2709	37180	266
Dyna-Gro Seed	58P60	12.7	29.5	57.0	9.3	46.9	55.6	26.0	7.9	62.7	0.603	2639	33364	256
Eureka Seeds	7634RR	12.4	29.1	57.5	9.0	46.1	53.8	29.5	7.6	62.7	0.607	2652	32669	242
Dyna-Gro Seed	58P59	12.3	29.0	57.4	8.5	46.2	53.3	28.6	7.4	62.3	0.605	2634	32546	227
Dyna-Gro Seed	CXO6319	12.2	31.2	60.9	9.0	43.7	58.6	28.7	6.9	66.3	0.640	2895	35397	238
Dyna-Gro Seed	58K22	11.6	32.7	64.5	8.5	50.8	56.6	24.1	7.1	62.1	0.593	2580	29784	213
Garst Seed Co.	8247YG1	11.5	26.3	56.6	9.0	45.6	55.1	30.5	7.3	63.4	0.614	2705	31127	223
Dyna-Gro Seed	58K02	11.3	29.6	61.7	8.9	43.8	55.7	31.0	7.6	64.3	0.622	2764	31178	218
Eureka Seeds	X6033RRYGCB	11.1	26.4	58.1	8.9	48.9	56.9	25.1	7.5	62.7	0.600	2630	29269	214
Eureka Seeds	7679RR	10.9	25.2	56.6	8.8	43.3	56.0	31.0	7.1	65.1	0.632	2828	30959	206
Dyna-Gro Seed	CXO5819	10.7	24.9	56.5	9.2	46.3	53.2	28.0	7.2	62.5	0.607	2648	28363	213
NC+ Hybrids	NC+6125RBD	10.3	23.1	55.4	8.6	43.3	58.0	31.4	6.5	66.6	0.645	2923	30001	190
Dyna-Gro Seed	58K40	10.2	27.7	63.2	8.8	49.8	53.2	26.2	7.1	60.9	0.588	2528	25776	194
Dyna-Gro Seed	CXO5516	8.5	23.0	63.3	9.4	51.2	55.7	23.2	8.0	60.5	0.576	2465	18855	169
Dyna-Gro Seed	CXO5917	7.8	21.6	63.6	8.9	50.0	52.8	24.9	7.9	59.8	0.575	2442	19140	151
	Trial Mean	11.3	27.9	59.3	8.9	46.8	55.4	27.8	7.3	63.1	0.61	2675	30308	218
	LSD	2.1	4.3	4.0	ns	4.9	3.3	5.5	0.8	2.5	0.03	192	6594	43
	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	12.7	10.7	7.3	5.9	7.3	4.2	14.0	8.0	2.8	3.4	5.0	15.3	14.0
	F Test	<0.0001	<0.0001	<0.0001	0.499	0.0072	0.0184	0.0392	0.0069	<0.0001	0.0003	<0.0001	<0.0001	<0.0001

Table 7A. New Mexico 2006 Late Forage Corn Performance Test - Agricultural Science Center at Artesia

Investigators: R. Flynn and C.A. French

Test Description

<p>Location:</p> <p>County/Area: Eddy Longitude: -104.38 Latitude: 32.75 Elevation: 3348 ft. Soil Name: Reeves Soil Texture: loam Soil Depth: 60 in.</p>	<p>Management Practices:</p> <p>Previous Crop: Cotton</p> <p>Planting Date: 13-Jun Harvest Date: 25-Sep</p> <p>Production Inputs</p> <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>123 lb/a</td> <td>26-Jul</td> </tr> <tr> <td>P2O5</td> <td>64 lb/a</td> <td>15-Mar</td> </tr> </tbody> </table> <p>Herbicides: None</p> <p>Insecticides: None</p>		Rate	Date	Fertilizer:			Nitrogen	123 lb/a	26-Jul	P2O5	64 lb/a	15-Mar	<p>Growing Conditions:</p> <table border="1"> <thead> <tr> <th></th> <th colspan="3">Average</th> </tr> <tr> <th></th> <th>Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>44.1</td><td>0.00</td><td></td></tr> <tr><td>February</td><td>45.4</td><td>0.21</td><td>8.50</td></tr> <tr><td>March</td><td>53.7</td><td>0.35</td><td></td></tr> <tr><td>April</td><td>64.2</td><td>0.18</td><td>4.60</td></tr> <tr><td>May</td><td>73.2</td><td>0.16</td><td></td></tr> <tr><td>June</td><td>79.2</td><td>1.57</td><td>3.70</td></tr> <tr><td>July</td><td>80.7</td><td>1.24</td><td>7.50</td></tr> <tr><td>August</td><td>78.4</td><td>2.61</td><td></td></tr> <tr><td>September</td><td>66.9</td><td>3.16</td><td></td></tr> <tr><td>October</td><td>59.7</td><td>1.04</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: 10.5 in. Total Irrigation: 24.3 in.</p> <p>Date of Last Spring Frost: 25-Mar Date of First Fall Frost: 28-Oct Frost Free Period: 217 days</p>		Average				Temp. °F	Precip. in.	Irrigation in.	January	44.1	0.00		February	45.4	0.21	8.50	March	53.7	0.35		April	64.2	0.18	4.60	May	73.2	0.16		June	79.2	1.57	3.70	July	80.7	1.24	7.50	August	78.4	2.61		September	66.9	3.16		October	59.7	1.04		November				December			
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<p>Test Design:</p> <p>Replications: 4 Plot Length: 25 ft. Rows per Plot: 2 Row Spacing: 40 in. Seeding Rate: 39000 seeds/a</p>																																																																						

Table 7B. New Mexico 2006 Late Forage Corn Performance Test - Agricultural Science Center at Artesia

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	NDFD			Ash	TDN	NE ₁	Milk Per Ton	Milk Per Acre	N Uptake
		Dry Forage	Green Forage	at Harvest		NDF	48hr	Starch						
		t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/ac	lb/A	
Dyna-Gro Seed	58P59	9.5	22.2	57.4	10.2	47.5	54.8	30.6	7.5	62.2	0.60	2614	24917	306
Dyna-Gro Seed	CXO5917	8.7	23.6	63.6	11.1	53.8	57.2	21.8	8.1	60.2	0.57	2423	21328	304
Dyna-Gro Seed	58K02	8.6	22.3	61.7	10.4	52.4	53.7	24.2	7.7	59.3	0.57	2400	20932	284
Dyna-Gro Seed	CXO5819	8.5	19.8	56.5	10.8	52.3	53.3	23.4	7.8	59.0	0.56	2379	20520	295
NC+Hybrids	NC+6361RB	8.2	18.7	55.9	10.0	48.6	54.2	30.0	7.4	61.5	0.59	2564	21384	260
Garst Seed Co.	8247YG1	8.1	18.7	56.6	10.2	50.9	55.5	26.1	7.9	60.7	0.58	2486	20102	265
Eureka Seeds	7634RR	7.8	18.4	57.7	10.8	49.6	55.1	27.5	7.6	61.3	0.59	2540	20092	270
Dyna-Gro Seed	58P60	7.3	17.1	57.0	10.7	52.3	52.1	24.5	7.5	58.7	0.56	2370	17390	251
NC+Hybrids	NC+7373RB	7.3	18.5	60.8	10.4	47.9	55.6	29.9	7.3	62.7	0.60	2644	19142	243
Dyna-Gro Seed	CXO6319	7.3	18.6	60.9	10.4	47.3	53.7	28.3	7.3	62.0	0.60	2606	18856	243
NC+Hybrids	NC+6125RBD	7.2	16.2	55.4	10.7	49.3	56.7	26.6	7.3	62.5	0.60	2617	18932	245
Eureka Seeds	7679RR	6.9	15.6	56.2	10.4	55.1	54.6	21.6	7.8	58.4	0.55	2322	16005	227
Eureka Seeds	X6033RRYGCB	6.7	16.1	58.5	10.6	50.9	56.4	25.6	7.6	61.4	0.58	2528	17104	224
Dyna-Gro Seed	58K40	6.6	18.0	63.2	10.6	51.5	52.5	24.5	8.2	58.6	0.56	2356	15292	231
Dyna-Gro Seed	58K22	6.3	18.0	64.5	11.1	50.4	54.4	24.3	7.8	60.5	0.58	2482	15718	226
Dyna-Gro Seed	CXO5516	6.0	16.4	63.3	10.7	50.8	54.8	26.5	7.7	60.6	0.58	2483	15144	204
	Trial Mean	7.6	18.6	59.3	10.6	50.7	54.7	26.0	7.6	60.6	0.58	2488	18928	255
	LSD	ns	ns	4.2	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	0.05
	CV	22.6	21.4	5.0	9.2	9.4	4.6	23.9	9.4	4.8	5.7	8.7	26.6	23.5
	F Test	0.2533	0.2008	<0.0001	0.9633	0.5926	0.2394	0.6743	0.9112	0.4896	0.5865	0.5471	0.3427	0.4343

Table 8A. New Mexico 2006 Forage Corn Performance Test - Agricultural Science Center at Clovis

Investigators: M.A. Marsalis, R.E. Kirksey, N. Pryor, 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: 26-Apr Harvest Date: 11-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>68 lb/a</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>285 lb/a</td> <td>21-Apr</td> </tr> <tr> <td>P₂O₅</td> <td>60 lb/a</td> <td>21-Apr</td> </tr> <tr> <td>S</td> <td>47 lb/a</td> <td>21-Apr</td> </tr> <tr> <td>Zn</td> <td>1.5 lb/a</td> <td>21-Apr</td> </tr> </tbody> </table> Herbicides: Bicep Lite II Mag pt/a Insecticides: Dimethoate 4E pt/a Oberon oz/ac Tracer oz/ac		Rate	Date	Fertilizer:			Nitrogen	68 lb/a	carryover	Nitrogen	285 lb/a	21-Apr	P ₂ O ₅	60 lb/a	21-Apr	S	47 lb/a	21-Apr	Zn	1.5 lb/a	21-Apr	<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 style="text-align: center;">42.8</td><td style="text-align: center;">0.00</td><td></td></tr> <tr><td>February</td><td style="text-align: center;">40.9</td><td style="text-align: center;">0.09</td><td></td></tr> <tr><td>March</td><td style="text-align: center;">48.0</td><td style="text-align: center;">0.61</td><td></td></tr> <tr><td>April</td><td style="text-align: center;">59.8</td><td style="text-align: center;">0.25</td><td style="text-align: center;">4.50</td></tr> <tr><td>May</td><td style="text-align: center;">68.5</td><td style="text-align: center;">0.56</td><td style="text-align: center;">3.00</td></tr> <tr><td>June</td><td style="text-align: center;">76.0</td><td style="text-align: center;">0.68</td><td style="text-align: center;">8.50</td></tr> <tr><td>July</td><td style="text-align: center;">77.0</td><td style="text-align: center;">0.66</td><td style="text-align: center;">7.75</td></tr> <tr><td>August</td><td style="text-align: center;">73.0</td><td style="text-align: center;">4.89</td><td style="text-align: center;">3.25</td></tr> <tr><td>September</td><td style="text-align: center;">67.5</td><td style="text-align: center;">1.90</td><td></td></tr> <tr><td>October</td><td style="text-align: center;">55.0</td><td style="text-align: center;">1.78</td><td></td></tr> <tr><td>November</td><td style="text-align: center;">47.0</td><td style="text-align: center;">0.06</td><td></td></tr> <tr><td>December</td><td style="text-align: center;">36.0</td><td style="text-align: center;">1.20</td><td></td></tr> </tbody> </table> Seasonal Precipitation 8.9 in. Total Irrigation 27.0 in. Date of Last Spring Frost: 25-Apr Date of First Fall Frost: 13-Oct Frost Free Period: 171 days		Average Temp. °F	Precip. in.	Irrigation in.	January	42.8	0.00		February	40.9	0.09		March	48.0	0.61		April	59.8	0.25	4.50	May	68.5	0.56	3.00	June	76.0	0.68	8.50	July	77.0	0.66	7.75	August	73.0	4.89	3.25	September	67.5	1.90		October	55.0	1.78		November	47.0	0.06		December	36.0	1.20	
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Test Design: Replications: 4 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 32000 seed/a																																																																											

Table 8B. New Mexico 2006 Forage Corn Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	NDF	NDFD		Ash	TDN	NE _i	Milk/ Ton	Milk/ Acre
		Dry Forage	Green Forage	at Harvest			48hr	Starch					
		t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
Eureka Seeds	7634RR	13.7	34.1	59.8	7.9	49.1	50.5	24.6	6.5	59.1	0.57	2407	32909
Monsanto	Dekalb DKC 69-71 (RR2/YGCB)	13.6	33.0	58.7	7.6	50.0	45.8	25.2	6.5	55.6	0.55	2183	29748
Triumph Seed Co., Inc.	1866 Bt	13.1	33.2	60.6	7.8	50.4	51.5	24.1	6.9	59.0	0.57	2395	31229
Grand Valley Hybrids	26B57	13.0	36.8	64.6	8.4	48.1	51.0	24.7	6.7	61.5	0.60	2597	33808
Dyna-Gro Seed	58K22	13.0	34.9	62.9	8.3	45.1	52.3	29.0	6.0	63.3	0.62	2720	35287
Dyna-Gro Seed	58K40	12.9	36.2	64.3	8.5	49.1	52.5	24.0	5.8	62.4	0.61	2654	34294
Dyna-Gro Seed	CXO 6717	12.9	30.1	57.3	8.1	45.7	52.8	28.3	6.0	60.2	0.58	2468	31753
Grand Valley Hybrids	X7RP12	12.7	29.2	56.5	8.0	48.0	48.3	25.7	6.6	56.7	0.55	2242	28440
Grand Valley Hybrids	X7B28	12.7	29.9	57.2	8.0	45.2	52.5	28.4	6.0	60.2	0.58	2468	31468
Eureka Seeds	X5115RR YGCB	12.6	33.9	62.9	8.1	48.1	51.8	25.6	5.0	62.5	0.61	2668	33459
NC+ Hybrids	NC+ 7373RB	12.6	35.7	64.7	8.8	48.4	53.8	24.7	6.0	63.4	0.62	2720	34289
Monsanto	Dekalb DKC 66-80 (RR2)	12.5	32.3	61.4	7.9	48.4	53.0	25.2	6.1	61.3	0.59	2555	31796
Golden Acres Genetics	GA 2993 RRB	12.4	33.9	63.4	8.3	47.0	51.5	26.0	6.5	61.8	0.61	2613	32294
Grand Valley Hybrids	14B75	12.4	33.4	62.9	8.2	48.1	50.8	24.7	6.5	60.6	0.59	2530	31183
NC+ Hybrids	NC+ 6361RBD	12.3	33.2	63.1	8.6	42.6	53.0	29.6	6.2	64.5	0.63	2806	34348
NC+ Hybrids	NC+ 7402R	12.3	34.8	64.8	8.4	48.2	48.3	26.2	6.2	60.3	0.60	2543	31152
Dyna-Gro Seed	58P60	12.2	31.0	60.6	8.3	43.5	51.5	29.3	6.3	62.1	0.61	2627	32123
Golden Acres Genetics	GA 2995 RR	12.1	36.0	66.3	8.3	50.6	50.0	23.5	6.7	60.5	0.59	2537	30718
Garst Seed Company	8247Y61	12.1	31.6	61.6	9.0	42.5	54.3	29.5	6.3	63.8	0.62	2735	33116
Grand Valley Hybrids	26B50	12.1	34.0	64.2	8.5	48.1	52.0	24.5	6.4	62.1	0.61	2636	31982

Table 8B (cont.). New Mexico 2006 Forage Corn Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	NDF	NDFD		Ash	TDN	NE _i	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage	at Harvest			48hr	Starch					
		t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
Dyna-Gro Seed	58K56	12.1	33.8	64.2	9.0	48.9	48.8	22.8	6.2	60.2	0.59	2525	30451
Eureka Seeds	7625RR YGCB	11.8	32.9	64.1	8.4	47.4	52.5	25.0	6.8	62.0	0.60	2619	31046
Golden Acres Genetics	GA 2841 RRB	11.7	33.4	65.1	8.9	45.5	53.0	26.8	6.5	63.8	0.63	2754	32124
Dyna-Gro Seed	CXO 6319	11.7	30.8	61.9	8.4	43.6	54.8	29.2	6.6	63.8	0.62	2730	31925
Dyna-Gro Seed	CXO 5819	11.6	28.7	59.7	8.9	45.7	50.3	26.8	6.5	60.3	0.59	2502	28250
NC+ Hybrids	NC+ 6125RBD	11.6	29.1	60.1	8.4	43.3	55.5	27.4	6.2	63.8	0.62	2723	31632
Dyna-Gro Seed	CXO 5917	11.5	29.9	61.4	8.0	46.2	48.8	27.3	6.3	60.0	0.59	2487	28733
Dyna-Gro Seed	CXO 5516	11.4	27.7	58.9	8.1	44.1	50.8	30.1	5.6	61.2	0.60	2563	29208
Eureka Seeds	X6033RR YGCB	11.3	27.5	58.8	8.8	45.1	51.8	26.9	6.4	60.7	0.59	2514	28411
Monsanto	Dekalb DKC 66-23 (RR2/YGCB)	11.3	28.5	60.4	8.7	45.3	52.5	27.0	6.8	61.1	0.59	2540	28636
Eureka Seeds	7679RR	11.2	29.4	61.8	8.2	43.2	54.0	29.8	6.1	63.8	0.62	2744	30796
Triumph Seed Co., Inc.	1416 Bt	10.8	26.4	59.1	7.9	41.3	52.5	32.3	5.7	62.8	0.61	2666	28753
Dyna-Gro Seed	58K02	10.7	28.7	62.6	8.4	43.7	54.0	29.1	6.0	64.3	0.63	2783	29857
	Trial Mean	12.2	31.9	61.5	8.3	46.3	51.8	26.9	6.3	61.5	0.60	2581	31417
	LSD	1.1	2.7	2.2	0.7	2.7	3.4	3.2	0.6	2.1	0.02	138	2883
	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	6.4	6.1	2.6	5.6	4.1	4.7	8.6	7.1	2.4	2.3	3.8	6.5
	F Test	<0.0001	<0.0001	<0.0001	0.0013	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

Table 9A. New Mexico 2006 Forage Corn Performance Test - Agricultural Science Center at Farmington

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

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: small grain Planting Date: 23-May Harvest Date: 20-Sep <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: left;">Production Inputs</th> </tr> <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>24-Mar</td> </tr> <tr> <td>Nitrogen</td> <td>19 lb/a</td> <td>14-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>32 lb/a</td> <td>21-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>30 lb/a</td> <td>29-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>30 lb/a</td> <td>11-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>39 lb/a</td> <td>19-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>39 lb/a</td> <td>7-Aug</td> </tr> <tr> <td>P2O5</td> <td>52 lb/a</td> <td>24-Mar</td> </tr> <tr> <td>K2O</td> <td>60 lb/a</td> <td>24-Mar</td> </tr> <tr> <td>S</td> <td>6 lb/a</td> <td>24-Mar</td> </tr> <tr> <td>Zn</td> <td>1 lb/a</td> <td>24-Mar</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Bicep Lite II Mag</td> <td>2.5 pt/a</td> <td>26-May</td> </tr> <tr> <td>Lo Vol 6</td> <td>2 oz/a</td> <td>26-May</td> </tr> <tr> <td>Clarity</td> <td>2 oz/a</td> <td>26-May</td> </tr> <tr> <td colspan="3">Instecticides: None</td> </tr> </tbody> </table>	Production Inputs				Rate	Date	Fertilizer:			Nitrogen	10 lb/a	24-Mar	Nitrogen	19 lb/a	14-Jun	Nitrogen	32 lb/a	21-Jun	Nitrogen	30 lb/a	29-Jun	Nitrogen	30 lb/a	11-Jul	Nitrogen	39 lb/a	19-Jul	Nitrogen	39 lb/a	7-Aug	P2O5	52 lb/a	24-Mar	K2O	60 lb/a	24-Mar	S	6 lb/a	24-Mar	Zn	1 lb/a	24-Mar	Herbicides:			Bicep Lite II Mag	2.5 pt/a	26-May	Lo Vol 6	2 oz/a	26-May	Clarity	2 oz/a	26-May	Instecticides: 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;">65.1</td><td style="text-align: center;">0.09</td><td style="text-align: center;">1.00</td></tr> <tr><td>June</td><td style="text-align: center;">74.3</td><td style="text-align: center;">0.24</td><td style="text-align: center;">5.20</td></tr> <tr><td>July</td><td style="text-align: center;">77.6</td><td style="text-align: center;">1.90</td><td style="text-align: center;">8.00</td></tr> <tr><td>August</td><td style="text-align: center;">72.6</td><td style="text-align: center;">0.79</td><td style="text-align: center;">9.70</td></tr> <tr><td>September</td><td style="text-align: center;">61.1</td><td style="text-align: center;">1.38</td><td style="text-align: center;">3.10</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 style="text-align: right;">Seasonal Precipitation</td> <td></td> <td style="text-align: center;">4.40 in.</td> <td></td> </tr> <tr> <td style="text-align: right;">Total Irrigation</td> <td></td> <td style="text-align: center;">27.0 in.</td> <td></td> </tr> <tr> <td style="text-align: right;">Date of Last Spring Freeze</td> <td></td> <td style="text-align: center;">20-Apr</td> <td></td> </tr> <tr> <td style="text-align: right;">Date of First Fall Freeze</td> <td></td> <td style="text-align: center;">23-Sep</td> <td></td> </tr> <tr> <td style="text-align: right;">Frost Free Period</td> <td></td> <td style="text-align: center;">156 days</td> <td></td> </tr> </tbody> </table>				Average Temp. °F	Precip. in.	Irrigation in.	January				February				March				April				May	65.1	0.09	1.00	June	74.3	0.24	5.20	July	77.6	1.90	8.00	August	72.6	0.79	9.70	September	61.1	1.38	3.10	October				November				December				Seasonal Precipitation		4.40 in.		Total Irrigation		27.0 in.		Date of Last Spring Freeze		20-Apr		Date of First Fall Freeze		23-Sep		Frost Free Period		156 days	
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Test Design: Replications: 3 Plot Length: 20 ft. Rows per Plot: 4 Row Spacing: 34 in. Seeding Rate: 35000 seed/a																																																																																																																																					

Table 9B. New Mexico 2006 Forage Corn Performance Test - Agricultural Science Center at Farmington

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	NDF	NDFD		Ash	TDN	NE _l	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage	at Harvest			48hr	Starch					
		t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
BASF Plant Sciences	827278	9.4	31.0	69.6	8.9	47.8	64.3	28.1	6.0	69.4	0.66	3080	28969
BASF Plant Sciences	299582	8.6	28.5	70.1	8.4	50.8	59.5	28.7	5.5	66.4	0.64	2896	24758
Eureka Seeds	7634RR	8.5	30.6	72.1	8.8	56.0	65.3	19.7	6.1	66.4	0.62	2816	24044
BASF Plant Sciences	554730	8.2	26.5	69.3	8.7	50.0	64.8	26.8	5.9	68.9	0.66	3031	24890
BASF Plant Sciences	5546	8.0	24.6	67.5	8.1	44.6	66.2	34.4	5.5	71.7	0.69	3252	26035
BASF Plant Sciences	832707	8.0	27.0	70.1	8.6	51.2	65.3	26.4	5.8	68.9	0.65	3018	24040
BASF Plant Sciences	771326	7.8	27.3	71.4	8.5	53.3	61.5	23.0	5.7	65.9	0.63	2839	21526
BASF Plant Sciences	806148	7.8	26.9	71.4	9.3	49.4	66.7	24.0	6.1	69.0	0.65	3015	23654
Dyna-Gro Seed	CXO5917	7.7	28.9	73.5	8.4	54.9	60.2	22.2	6.1	64.3	0.61	2711	20798
BASF Plant Sciences	554709	7.6	24.1	68.7	8.6	47.6	68.0	29.4	5.9	71.2	0.68	3183	24637
Dyna-Gro Seed	55P41	7.6	22.7	66.5	7.9	48.6	63.5	29.8	5.5	68.3	0.65	3002	22803
BASF Plant Sciences	864973	7.5	27.0	72.4	8.8	52.7	63.9	22.2	6.2	66.9	0.63	2879	21440
BASF Plant Sciences	827268	7.3	24.5	70.3	9.2	50.2	68.0	26.7	5.8	70.5	0.67	3117	22914
BASF Plant Sciences	780943	7.2	23.9	69.5	7.8	56.3	62.1	20.9	5.6	65.3	0.62	2765	19996
Dyna-Gro Seed	CXO5819	7.1	26.9	73.0	8.4	51.4	63.5	26.7	5.9	67.7	0.64	2948	21111
BASF Plant Sciences	866221	7.1	25.5	71.9	9.3	52.8	74.3	20.9	6.2	72.4	0.67	3174	22226
Dyna-Gro Seed	56P24	7.1	24.6	71.1	8.6	50.6	68.9	26.3	6.3	70.4	0.66	3098	22057
Dyna-Gro Seed	CXO5516	7.1	25.4	72.7	8.8	57.1	66.7	19.9	6.2	67.1	0.62	2834	20256
BASF Plant Sciences	827121	7.0	23.0	69.7	8.2	49.1	63.5	29.3	5.5	69.0	0.66	3056	21282
Dyna-Gro Seed	55P86	6.9	21.9	68.4	7.8	48.3	66.4	27.3	5.7	69.9	0.66	3097	21502

Table 9B (cont.). New Mexico 2006 Forage Corn Performance Test - Agricultural Science Center at Farmington

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	NDF	NDFD		Ash	TDN	NE _l	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage	at Harvest			48hr	Starch					
		t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
Eureka Seeds	X6033RRYGCB	6.8	25.6	73.5	8.2	59.0	60.2	19.0	6.1	62.5	0.59	2567	17355
BASF Plant Sciences	866222	6.6	23.4	71.7	8.4	57.2	64.3	19.8	6.2	65.4	0.61	2741	18232
Dyna-Gro Seed	57P12	6.3	23.8	73.7	8.6	56.6	64.0	20.7	6.3	65.4	0.61	2749	17076
BASF Plant Sciences	554729	6.3	21.4	71.1	9.1	49.4	65.6	27.3	5.8	69.5	0.66	3062	19668
BASF Plant Sciences	780937	6.1	22.4	72.7	8.9	55.2	64.5	20.0	6.2	66.2	0.62	2812	17096
Eureka Seeds	X5115RRYGCB	6.1	24.2	75.1	9.4	59.7	64.1	18.6	6.7	63.9	0.59	2619	15678
Eureka Seeds	7625RRYGCB	5.4	22.7	76.1	9.1	58.7	67.1	14.8	6.5	66.0	0.61	2740	14756
Dyna-Gro Seed	57P69	4.4	15.4	71.0	8.4	52.7	61.5	26.2	5.7	66.2	0.63	2854	12687
	Trial Mean	7.2	25.0	71.2	8.6	52.5	64.8	24.3	6.0	67.7	0.64	2927	21125
	LSD	1.8	5.5	3.8	ns	6.5	5.2	6.9	0.6	4.5	0.04	317	6684
	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	15.6	13.5	3.3	8.5	7.6	4.9	17.4	5.8	4.1	4.4	6.6	19.3
	F Test	0.0031	0.0016	0.0010	0.3760	0.0003	0.0006	0.0001	0.0033	0.0024	0.0014	0.0016	0.0033

Table 9C. New Mexico 2006 Forage Corn Performance Test - Agricultural Science Center at Farmington

Results

Brand/Company Name	Hybrid/Variety Name	Plant Height	Ear Height	Plant Population	Silk Date	Days to Silk	Relative Maturity
		in	in	plants/a		days	days
BASF Plant Sciences	827278	98	40	41559	14-Aug	84	107
BASF Plant Sciences	299582	105	42	37967	13-Aug	83	105
Eureka Seeds	7634RR	103	67	31811	23-Aug	92	118
BASF Plant Sciences	554730	97	58	37454	15-Aug	85	112
BASF Plant Sciences	5546	91	27	33350	11-Aug	81	106
BASF Plant Sciences	832707	98	59	36941	15-Aug	84	113
BASF Plant Sciences	771326	100	55	36941	16-Aug	86	113
BASF Plant Sciences	806148	93	41	32324	15-Aug	85	109
Dyna-Gro Seed	CXO5917	99	63	32324	20-Aug	89	116
BASF Plant Sciences	554709	94	39	35915	14-Aug	83	106
Dyna-Gro Seed	55P41	88	66	36428	14-Aug	83	101
BASF Plant Sciences	864973	98	60	32837	15-Aug	84	112
BASF Plant Sciences	827268	94	36	32837	13-Aug	82	111
BASF Plant Sciences	780943	104	30	31811	23-Aug	92	110
Dyna-Gro Seed	CXO5819	108	65	31298	17-Aug	86	116
BASF Plant Sciences	866221	89	53	31811	16-Aug	86	112
Dyna-Gro Seed	56P24	87	46	35402	14-Aug	83	108
Dyna-Gro Seed	CXO5516	98	60	31298	20-Aug	90	116
BASF Plant Sciences	827121	95	35	31811	13-Aug	82	108
Dyna-Gro Seed	55P86	86	54	35915	14-Aug	83	104

Table 9C. New Mexico 2006 Forage Corn Performance Test - Agricultural Science Center at Farmington

Results

Brand/Company Name	Hybrid/Variety Name	Plant Height	Ear Height	Plant Population	Silk Date	Days to Silk	Relative Maturity
		in	in	plants/a		days	days
Eureka Seeds	X6033RRYGCB	109	68	32837	17-Aug	86	116
BASF Plant Sciences	866222	100	52	33350	19-Aug	88	114
Dyna-Gro Seed	57P12	87	49	32324	17-Aug	86	116
BASF Plant Sciences	554729	92	37	28219	16-Aug	85	109
BASF Plant Sciences	780937	96	58	32837	19-Aug	88	113
Eureka Seeds	X5115RRYGCB	106	65	31298	25-Aug	94	118
Eureka Seeds	7625RRYGCB	92	61	29245	23-Aug	92	120
Dyna-Gro Seed	57P69	88	47	26680	16-Aug	85	112
	Trial Mean	96	51	33386	16-Aug	86	111
	LSD	12	ns	ns	ns	3	-
	LSD P>	0.05	0.05	0.05	0.05	0.05	-
	CV	7.5	34.6	16.7	0.0	2.5	-
	F Test	0.0021	0.1460	0.5221	0.9570	<0.0001	-

Table 10A. New Mexico 2006 Forage Corn Performance Test - Agricultural Science Center at Los Lunas

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

Test Description

Location:	Management Practices:	Growing Conditions:																																																																																
County/Area: Valencia Longitude: -106.45 Latitude: 34.46 Elevation: 4840 ft. Soil Name: Gila Soil Texture: Coarse loam Soil Depth: 60 in.	Previous Crop: Alfalfa Planting Date: 9-May Harvest Dates: 23-Aug 31-Aug 25-Aug 5-Sep 30-Aug 6-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;">51 lb/a</td> <td style="text-align: center;">22-Feb</td> </tr> <tr> <td>Nitrogen</td> <td style="text-align: center;">106 lb/a</td> <td style="text-align: center;">24-May</td> </tr> <tr> <td>Nitrogen</td> <td style="text-align: center;">155 lb/a</td> <td style="text-align: center;">8-Jun</td> </tr> <tr> <td>P2O5</td> <td style="text-align: center;">25 lb/a</td> <td style="text-align: center;">22-Feb</td> </tr> <tr> <td>K2O</td> <td style="text-align: center;">25 lb/a</td> <td style="text-align: center;">22-Feb</td> </tr> <tr> <td>K2O</td> <td style="text-align: center;">128 lb/a</td> <td style="text-align: center;">28-Mar</td> </tr> </tbody> </table> Herbicides: Bladex 1 qt/a 9-May Clarity 8 oz/a 9-May Atrazine 1 qt/a 9-May Atrazine 1 qt/a 2-Jun Distint 4 oz/a 2-Jun		Rate	Date	Fertilizer:			Nitrogen	51 lb/a	22-Feb	Nitrogen	106 lb/a	24-May	Nitrogen	155 lb/a	8-Jun	P2O5	25 lb/a	22-Feb	K2O	25 lb/a	22-Feb	K2O	128 lb/a	28-Mar	<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 style="text-align: center;">36.5</td><td style="text-align: center;">0.03</td><td></td></tr> <tr><td>February</td><td style="text-align: center;">41.3</td><td style="text-align: center;">0.00</td><td></td></tr> <tr><td>March</td><td style="text-align: center;">47.4</td><td style="text-align: center;">0.28</td><td></td></tr> <tr><td>April</td><td style="text-align: center;">59.0</td><td style="text-align: center;">0.05</td><td></td></tr> <tr><td>May</td><td style="text-align: center;">68.3</td><td style="text-align: center;">0.00</td><td style="text-align: center;">6.00</td></tr> <tr><td>June</td><td style="text-align: center;">76.1</td><td style="text-align: center;">0.86</td><td style="text-align: center;">6.00</td></tr> <tr><td>July</td><td style="text-align: center;">79.1</td><td style="text-align: center;">2.49</td><td style="text-align: center;">6.00</td></tr> <tr><td>August</td><td style="text-align: center;">74.2</td><td style="text-align: center;">2.84</td><td style="text-align: center;">3.00</td></tr> <tr><td>September</td><td style="text-align: center;">64.1</td><td style="text-align: center;">0.51</td><td style="text-align: center;">3.00</td></tr> <tr><td>October</td><td style="text-align: center;">55.2</td><td style="text-align: center;">1.59</td><td></td></tr> <tr><td>November '05</td><td style="text-align: center;">44.7</td><td style="text-align: center;">0.00</td><td></td></tr> <tr><td>December '05</td><td style="text-align: center;">35.6</td><td style="text-align: center;">0.08</td><td></td></tr> </tbody> </table> <table style="width: 100%;"> <tr> <td style="text-align: right;">Seasonal Precipitation</td> <td style="text-align: right;">6.7 in.</td> </tr> <tr> <td style="text-align: right;">Total Irrigation</td> <td style="text-align: right;">24.0 in.</td> </tr> </table> Date of Last Spring Frost: 21-Apr Date of First Fall Frost: 19-Sep Frost Free Period: 151 days		Average Temp. °F	Precip. in.	Irrigation in.	January	36.5	0.03		February	41.3	0.00		March	47.4	0.28		April	59.0	0.05		May	68.3	0.00	6.00	June	76.1	0.86	6.00	July	79.1	2.49	6.00	August	74.2	2.84	3.00	September	64.1	0.51	3.00	October	55.2	1.59		November '05	44.7	0.00		December '05	35.6	0.08		Seasonal Precipitation	6.7 in.	Total Irrigation	24.0 in.
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Test Design: Replications: 4 Plot Length: 10 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 30000 seed/a																																																																																		

Table 10B. New Mexico 2006 Forage Corn Performance Test - Agricultural Science Center at Los Lunas

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	ADF	NDF	NDFD			Ash	Milk/Ton	Milk/Acre	RFV
		Dry Forage	Green Forage	at Harvest				48hr	Starch					
		t/a	t/a	%	%	%	%	%	%	%	lb/t	lb/a		
Eureka Seeds	X5115RRYGCB	11.7	36.9	68.4	9.1	28.5	49.7	57.0	28.4	5.1	2797	32869	125	
Monsanto	Dekalb DKC69-71(RR2/YGCB)	11.7	34.6	65.9	8.2	28.1	49.0	58.0	29.0	5.3	2828	33037	128	
BASF Plant Sciences	864973	11.3	31.7	64.5	8.9	25.9	44.2	55.8	31.4	5.5	2904	32778	145	
Eureka Seeds	7634RR	11.3	36.7	69.3	9.3	25.7	45.6	61.5	29.5	5.2	3032	34292	141	
BASF Plant Sciences	780943	10.9	30.8	64.1	7.9	32.6	53.9	55.5	24.4	5.8	2553	27882	111	
NC+ Hybrids	NC+ 7373RB	10.9	38.3	71.3	9.2	27.2	46.9	57.0	31.1	5.2	2857	31177	137	
Monsanto	Dekalb DKC66-80(RR2)	10.6	35.4	70.0	9.2	27.0	46.7	59.5	29.3	5.2	2953	31253	135	
NC+ Hybrids	NC+ 5433RB	10.6	32.0	66.7	8.7	24.2	42.8	59.0	34.6	5.1	3074	32570	154	
BASF Plant Sciences	827268	10.5	31.4	66.6	10.3	25.1	43.3	55.8	31.1	5.4	2956	31099	151	
BASF Plant Sciences	827278	10.2	33.1	69.6	9.7	27.0	43.4	56.5	31.9	6.5	2887	29245	146	
Eureka Seeds	X6033RRYGCB	10.2	31.8	67.8	9.3	28.5	48.6	54.0	30.0	5.8	2713	27684	128	
BASF Plant Sciences	554709	10.0	29.0	65.5	9.9	25.8	43.7	54.0	30.1	5.6	2895	28874	146	
BASF Plant Sciences	806148	10.0	29.5	66.1	9.0	26.2	44.9	54.8	32.8	5.7	2854	28523	142	
NC+ Hybrids	NC+ 6125RBD	10.0	32.7	69.3	9.3	26.0	44.3	56.5	33.1	5.5	2926	29337	146	
NC+ Hybrids	NC+ 6361RB	10.0	32.2	68.7	9.0	27.3	45.1	59.3	30.8	5.5	2963	29341	141	
BASF Plant Sciences	771326	9.8	32.5	69.8	10.2	28.5	48.5	56.5	27.9	6.0	2760	27019	128	
BASF Plant Sciences	827121	9.7	27.1	64.4	9.6	25.2	44.5	58.8	28.7	5.0	3024	29254	146	
BASF Plant Sciences	866222	9.7	27.3	64.3	8.7	28.4	49.3	57.0	30.0	5.6	2759	26551	126	
BASF Plant Sciences	832707	9.5	30.5	69.1	10.7	26.4	45.9	57.0	28.1	5.8	2871	27402	139	
BASF Plant Sciences	299582	9.4	30.0	68.8	10.3	28.0	48.4	52.3	28.0	5.6	2675	25181	129	

Table 10B (cont.). New Mexico 2006 Forage Corn Performance Test - Agricultural Science Center at Los Lunas

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	ADF	NDF	NDFD 48hr	Starch	Ash	Milk/Ton	Milk/Acre	RFV
		Dry Forage	Green Forage	at Harvest									
		t/a	t/a	%	%	%	%	%	%	lb/t	lb/a		
BASF Plant Sciences	780937	9.4	30.2	68.4	9.3	28.1	45.5	58.3	30.9	6.0	2889	26873	137
BASF Plant Sciences	866221	9.4	30.6	69.3	9.4	26.2	45.6	66.3	28.0	5.9	3106	29061	140
Monsanto	Dekalb DKC66-23(RR2/YGCB)	9.4	28.5	66.9	8.4	24.1	41.4	58.8	35.6	5.1	3105	29117	158
BASF Plant Sciences	554730	9.3	29.3	68.5	9.8	27.9	48.6	56.0	26.6	6.0	2744	25462	129
BASF Plant Sciences	554729	8.7	27.3	68.0	9.9	27.6	47.1	56.5	27.4	5.4	2855	24684	134
BASF Plant Sciences	5546	7.9	23.9	66.9	9.1	26.6	45.3	55.0	31.3	5.5	2851	22485	141
	Trial Mean	10.1	31.3	67.6	9.3	27.0	46.2	57.2	30.0	5.5	2878	28963	138
	LSD	ns	5.2	4.0	0.8	3.1	4.0	4.9	4.5	0.8	220	5947	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
	CV	14.1	11.8	4.2	5.8	8.1	6.2	6.1	10.6	9.8	5.4	14.6	8.5
	F Test	0.0562	<0.0001	0.0113	<0.0001	0.0011	<0.0001	0.0014	0.0016	0.0498	0.0002	0.0194	<0.0001

Table 11A. New Mexico 2006 Forage Sorghum Performance Test - Agricultural Science Center at Artesia

Investigators: R. Flynn and C.A. French

Test Description

Location:	Management Practices:	Growing Conditions:																																																																				
County/Area: Eddy Longitude: -104.38 Latitude: 32.75 Elevation: 3348 ft. Soil Name: Reeves Soil Texture: loam Soil Depth: 32 in.	Previous Crop: Cotton Planting Date: 19-May Harvest Date: 25-Aug <hr/> Production Inputs <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">Fertilizer:</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-Jul</td> </tr> <tr> <td style="padding-left: 20px;">P2O5</td> <td style="text-align: center;">65 lb/a</td> <td style="text-align: center;">15-Mar</td> </tr> </tbody> </table> Herbicides: None Insecticides: None		Rate	Date	Fertilizer:			Nitrogen	100 lb/a	20-Jul	P2O5	65 lb/a	15-Mar	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 20%; text-align: center;">Average Temp. °F</th> <th style="width: 15%; text-align: center;">Precip. in.</th> <th style="width: 15%; text-align: center;">Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td style="text-align: center;">44.1</td><td style="text-align: center;">0.00</td><td></td></tr> <tr><td>February</td><td style="text-align: center;">45.4</td><td style="text-align: center;">0.21</td><td></td></tr> <tr><td>March</td><td style="text-align: center;">53.7</td><td style="text-align: center;">0.35</td><td style="text-align: center;">7.00</td></tr> <tr><td>April</td><td style="text-align: center;">64.2</td><td style="text-align: center;">0.18</td><td style="text-align: center;">5.04</td></tr> <tr><td>May</td><td style="text-align: center;">73.2</td><td style="text-align: center;">0.16</td><td style="text-align: center;">5.17</td></tr> <tr><td>June</td><td style="text-align: center;">79.2</td><td style="text-align: center;">1.57</td><td style="text-align: center;">6.01</td></tr> <tr><td>July</td><td style="text-align: center;">80.7</td><td style="text-align: center;">1.24</td><td style="text-align: center;">6.07</td></tr> <tr><td>August</td><td style="text-align: center;">78.4</td><td style="text-align: center;">2.61</td><td></td></tr> <tr><td>September</td><td style="text-align: center;">66.9</td><td style="text-align: center;">3.16</td><td></td></tr> <tr><td>October</td><td style="text-align: center;">59.7</td><td style="text-align: center;">1.04</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> <table style="width: 100%;"> <tr> <td style="width: 60%;">Seasonal Precipitation</td> <td style="text-align: center;">8.7 in.</td> </tr> <tr> <td style="padding-left: 20px;">Total Irrigation</td> <td style="text-align: center;">22.3 in.</td> </tr> </table> Date of Last Spring Frost: 25-Mar Date of First Fall Frost: 28-Oct Frost Free Period: 217 days		Average Temp. °F	Precip. in.	Irrigation in.	January	44.1	0.00		February	45.4	0.21		March	53.7	0.35	7.00	April	64.2	0.18	5.04	May	73.2	0.16	5.17	June	79.2	1.57	6.01	July	80.7	1.24	6.07	August	78.4	2.61		September	66.9	3.16		October	59.7	1.04		November				December				Seasonal Precipitation	8.7 in.	Total Irrigation	22.3 in.
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Test Design: Replications: 4 Plot Length: 25 ft. Rows per Plot: 2 Row Spacing: 40 in. Seeding Rate: 104000 seeds/a																																																																						

Table 11B. New Mexico 2006 Forage Sorghum Variety Trial - Agricultural Science Center at Artesia

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	ADF	NDF	NDFD 48hr	Ash	TDN	NE _l	Milk/Ton	Milk/Acre	N Uptake
		Dry Forage t/a	Green Forage t/a	at Harvest %										
Dyna-Gro Seed	727 F ST	8.2	24.8	67.5	9.3	46.6	60.5	72.5	9.7	58.7	0.60	2790	23186	162
Dyna-Gro Seed	710 F	7.8	24.9	68.8	8.6	47.7	61.5	71.4	8.7	58.7	0.60	2779	21529	142
Scott Seed Co.	BMR GOLD II	7.8	26.0	70.3	9.7	45.8	62.5	68.4	8.5	56.9	0.58	2631	20313	162
Seed Resource	FS 515 HQ	7.6	25.7	70.4	10.3	43.2	60.4	69.5	9.3	57.7	0.59	2694	20638	170
Scott Seed Co.	BMR GOLD I	7.4	26.1	71.3	10.5	45.8	60.9	71.3	9.6	58.0	0.59	2734	20224	170
NC+Hybrids	Nutri-Choice II	7.4	26.6	72.4	10.7	44.4	60.5	70.3	9.9	57.5	0.59	2689	19873	173
Seed Resource	BMR 106	7.3	24.9	71.0	9.5	45.5	61.1	70.5	9.2	57.9	0.59	2716	19842	148
Dyna-Gro Seed	727 F	6.8	25.6	73.1	10.6	44.2	60.8	70.2	8.7	58.2	0.59	2737	18791	157
Scott Seed Co.	BMR GOLD III	6.5	22.1	71.4	9.8	47.1	62.7	70.5	8.6	57.7	0.59	2707	17922	135
	Mean	7.4	25.2	70.7	9.9	45.6	61.2	70.5	9.1	57.9	0.59	2720	20257	158
	LSD	ns	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	0.05
	CV	20.0	15.6	12.6	11.1	6.0	3.3	3.5	12.2	3.3	3.6	5.5	21.4	22.9
	F Test	0.8576	0.8810	0.5393	0.1542	0.3852	0.6493	0.5502	0.5091	0.9377	0.9377	0.8952	0.8549	0.8059

Table 12A. New Mexico 2006 Forage Sorghum Performance Test - Agricultural Science Center at Clovis

Investigators: M.A. Marsalis, R.E. Kirksey, N. Pryor, 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: 7-Jun Harvest Date: 26-Sep <hr/> Production Inputs <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">Fertilizer:</td> </tr> <tr> <td>Nitrogen</td> <td>110 lb/a</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>50 lb/a</td> <td>6-Jun</td> </tr> <tr> <td>P₂O₅</td> <td>40 lb/a</td> <td>6-Jun</td> </tr> <tr> <td>S</td> <td>7 lb/a</td> <td>6-Jun</td> </tr> <tr> <td>Zn</td> <td>1 lb/a</td> <td>6-Jun</td> </tr> </tbody> </table> Herbicides: Atrazine 2 pt/a 7-Jun		Rate	Date	Fertilizer:			Nitrogen	110 lb/a	carryover	Nitrogen	50 lb/a	6-Jun	P ₂ O ₅	40 lb/a	6-Jun	S	7 lb/a	6-Jun	Zn	1 lb/a	6-Jun	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;"></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: 45%; text-align: center;">Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td style="text-align: center;">42.8</td><td style="text-align: center;">0.00</td><td></td></tr> <tr><td>February</td><td style="text-align: center;">40.9</td><td style="text-align: center;">0.09</td><td></td></tr> <tr><td>March</td><td style="text-align: center;">48.0</td><td style="text-align: center;">0.61</td><td></td></tr> <tr><td>April</td><td style="text-align: center;">59.8</td><td style="text-align: center;">0.25</td><td></td></tr> <tr><td>May</td><td style="text-align: center;">68.5</td><td style="text-align: center;">0.56</td><td style="text-align: center;">1.30</td></tr> <tr><td>June</td><td style="text-align: center;">76.0</td><td style="text-align: center;">0.68</td><td style="text-align: center;">3.75</td></tr> <tr><td>July</td><td style="text-align: center;">77.0</td><td style="text-align: center;">0.66</td><td style="text-align: center;">8.00</td></tr> <tr><td>August</td><td style="text-align: center;">73.0</td><td style="text-align: center;">4.89</td><td style="text-align: center;">2.15</td></tr> <tr><td>September</td><td style="text-align: center;">67.5</td><td style="text-align: center;">1.90</td><td></td></tr> <tr><td>October</td><td style="text-align: center;">55.0</td><td style="text-align: center;">1.78</td><td></td></tr> <tr><td>November</td><td style="text-align: center;">47.0</td><td style="text-align: center;">0.06</td><td></td></tr> <tr><td>December</td><td style="text-align: center;">36.0</td><td style="text-align: center;">1.20</td><td></td></tr> </tbody> </table> Seasonal Precipitation 8.1 in. Total Irrigation 15.2 in. Date of Last Spring Frost: 25-Apr Date of First Fall Frost: 13-Oct Frost Free Period: 171 days		Average Temp. °F	Precip. in.	Irrigation in.	January	42.8	0.00		February	40.9	0.09		March	48.0	0.61		April	59.8	0.25		May	68.5	0.56	1.30	June	76.0	0.68	3.75	July	77.0	0.66	8.00	August	73.0	4.89	2.15	September	67.5	1.90		October	55.0	1.78		November	47.0	0.06		December	36.0	1.20	
	Rate	Date																																																																									
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Test Design: Replications: 4 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: Non-BMR 192000 lb/a BMR 96000 lb/a																																																																											

Table 12B. New Mexico 2006 Forage Sorghum Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	ADF	NDF	NDFD 48hr	Ash	TDN	NE _i	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage	at Harvest									
		t/a	t/a	%	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a
Triumph Seed Co., Inc.	Super Sile 30	9.2	29.3	68.8	9.7	41.9	58.3	67.5	7.7	58.0	0.59	2703	24830
Seed Resource	FS 515 HQ	9.1	24.1	61.9	8.2	45.2	61.0	66.4	9.2	55.7	0.57	2532	23189
Scott Seed Co.	SS Silage	8.9	28.3	68.4	9.4	40.4	57.9	67.6	6.4	59.2	0.60	2791	24976
NC+ Hybrids	Nutri-Choice II	8.6	25.5	65.4	8.4	45.3	61.3	66.3	9.6	54.8	0.56	2467	21425
Garrison & Townsend, Inc.	24213	8.5	26.7	67.9	9.9	38.7	56.3	72.4	8.8	60.6	0.62	2925	24889
Richardson Seed	Silo 700 D	7.8	19.6	60.4	9.0	44.4	60.0	67.9	9.7	56.1	0.57	2575	20197
Dyna-Gro Seed	710 F	7.6	19.0	59.8	7.7	45.0	62.5	64.5	9.3	53.6	0.54	2364	18195
Sharp Bros	Canex II	7.6	22.5	66.1	8.8	38.1	55.2	69.6	7.0	61.5	0.63	2975	22651
NC+ Hybrids	Nutri-Cane II	7.5	21.6	65.1	8.0	39.4	57.1	71.8	8.1	60.7	0.62	2928	22191
Dyna-Gro Seed	727 F	7.4	22.9	67.1	9.6	39.1	56.7	71.7	9.2	59.6	0.61	2852	21278
Garrison & Townsend, Inc.	23402	7.4	25.4	70.9	10.0	37.2	55.2	72.9	7.9	61.7	0.63	3011	22271
Sorghum Partners	Hi Kane II	7.3	19.9	63.5	8.6	39.3	56.6	69.8	7.6	60.3	0.62	2889	20964
Sorghum Partners	NK 300	7.3	16.8	56.7	7.9	45.9	62.1	66.6	9.9	54.7	0.55	2458	17896
Garrison & Townsend, Inc.	23419	7.1	16.5	56.3	7.1	45.4	63.6	67.9	10.2	54.7	0.55	2472	17920
Scott Seed Co.	BMR Gold I	7.1	21.7	67.5	8.5	41.9	59.9	68.8	8.7	57.1	0.58	2653	18787
Warner Seeds Inc.	Sweet Bee Sterile II	7.1	19.6	63.8	8.1	40.4	57.7	68.8	7.8	59.3	0.60	2814	20011
Garrison & Townsend, Inc.	991021	6.9	21.1	67.2	8.7	41.4	59.3	71.7	9.9	58.1	0.59	2748	19036
Dyna-Gro Seed	727 F ST	6.5	22.9	71.4	9.9	37.9	56.3	72.6	7.8	61.1	0.63	2968	19349
Garrison & Townsend, Inc.	991005	6.4	18.3	65.0	7.7	43.8	60.6	69.1	10.4	56.2	0.57	2588	16571
Richardson Seed	Bundle King BMR	6.3	19.9	68.3	9.8	42.3	61.6	67.5	6.9	57.1	0.58	2646	16711

Table 12B (cont.). New Mexico 2006 Forage Sorghum Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	ADF	NDF	NDFD 48hr	Ash	TDN	NE _i	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage	at Harvest									
		t/a	t/a	%	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a
Seed Resource	BMR 106	6.0	16.3	63.4	7.6	42.8	62.0	68.0	6.9	58.1	0.59	2714	16544
Sharp Bros	Canex 208 BMR	5.9	16.7	64.4	7.2	42.9	61.6	68.4	7.5	57.9	0.59	2706	16058
Walter Mass	Millennium BMR	5.8	18.0	67.6	8.2	41.2	59.9	69.4	6.7	59.2	0.61	2807	16402
Richardson Seed	Dairy Master BMR	5.7	18.3	68.6	8.4	40.5	59.2	70.3	6.8	60.0	0.61	2862	16322
	Trial Mean	7.3	21.3	65.2	8.6	41.7	59.3	69.1	8.3	58.1	0.59	2727	19944
	LSD	1.4	4.8	3.2	1.0	2.6	3.2	2.5	1.0	2.7	0.03	210	4855
	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	13.8	15.8	3.5	8.3	4.5	3.9	2.6	8.5	3.3	3.6	5.5	17.3
	F Test	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0004

Table 13A. New Mexico 2006 Forage Sorghum Performance Test - Agricultural Science Center at Los Lunas

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

Test Description

Location:

County/Area: Valencia
 Longitude: -106.45
 Latitude: 34.46
 Elevation: 4840 ft.
 Soil Name: Belen
 Soil Texture: Clay loam
 Soil Depth: 60 in.

Test Design:

Replications: 4
 Plot Length: 10 ft.
 Rows per Plot: 2
 Row Spacing: 30 in.
 Seeding Rate: 70000 seed/a

Management Practices:

Previous Crop: Alfalfa
 Planting Date: 9-May
 Harvest Dates: 23-Aug

Production Inputs

	Rate	Date
Fertilizer:		
Nitrogen	51 lb/a	22-Feb
Nitrogen	106 lb/a	24-May
Nitrogen	155 lb/a	8-Jun
P2O5	25 lb/a	22-Feb
K2O	25 lb/a	22-Feb
K2O	128 lb/a	28-Mar

Herbicides:

Clarity 8 oz/a 9-May
 Atrazine 1 qt/a 2-Jun

Growing Conditions:

	Average Temp. °F	Precip. in.	Irrigation in.
January	36.5	0.03	
February	41.3	0.00	
March	47.4	0.28	
April	59.0	0.05	
May	68.3	0.00	6.00
June	76.1	0.86	6.00
July	79.1	2.49	6.00
August	74.2	2.84	3.00
September	64.1	0.51	3.00
October	55.2	1.59	
November '05	44.7	0.00	
December '05	35.6	0.08	

Seasonal Precipitation 6.7 in.
 Total Irrigation 24.0 in.

Date of Last Spring Frost: 21-Apr
 Date of First Fall Frost: 19-Sep
 Frost Free Period: 151 days

Table 13B. New Mexico 2006 Forage Sorghum Performance Test - Agricultural Science Center at Los Lunas

Results

Brand/Company Name	Hybrid/Variety Name	Dry Forage t/a	Green Forage t/a	Moisture	CP %	ADF %	NDF %	NDFD 48 hr %	Ash %	TDN %	Milk/ton lbs/t	Milk/acre lbs/a	RFV
				at Harvest %									
NC+ Hybrids	Nutri-Choice II	9.2	36.3	74.7	9.5	40.5	65.2	68.9	9.4	55.1	2503	23138	82
NC+ Hybrids	Nutri-Cane II	7.2	34.1	78.8	9.8	40.1	65.3	64.6	7.8	53.6	2369	17221	82
	Trial Mean	8.2	35.2	76.8	9.6	40.3	65.3	66.7	8.6	54.4	2435	20180	82
	LSD	ns	ns	ns	ns	ns	ns	3.1	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	20.7	17.4	3.8	3.9	5.8	5.1	2.1	11.9	5.2	8.6	28.5	7.8
	F Test	0.1959	0.6427	0.1398	0.313	0.8040	0.9688	0.0206	0.1253	0.5196	0.4352	0.2416	0.9595

Table 14A. New Mexico 2006 Sorghum x Sudangrass Performance Test - Agricultural Science Center at Artesia

Investigators: R.P. Flynn, C.A. French

Test Description

Location:	Management Practices:	Growing Conditions:																																																																				
County/Area: Eddy Longitude: -104.38 Latitude: 32.75 Elevation: 3348 ft. Soil Name: Reeves Soil Texture: loam Soil Depth: 32 in.	Previous Crop: Cotton Planting Date: 19-May Harvest Dates: 7-Jul First Harvest 28-Aug Second Harvest <hr/> 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>Fertilizer:</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Nitrogen</td> <td style="text-align: center;">82 lb/a</td> <td style="text-align: center;">20-Jul</td> </tr> <tr> <td style="padding-left: 20px;">P2O5</td> <td style="text-align: center;">64 lb/a</td> <td style="text-align: center;">15-Mar</td> </tr> </tbody> </table> Herbicides: None Insecticides: None		Rate	Date	Fertilizer:			Nitrogen	82 lb/a	20-Jul	P2O5	64 lb/a	15-Mar	<hr/> <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 style="text-align: center;">44.1</td><td></td><td></td></tr> <tr><td>February</td><td style="text-align: center;">45.4</td><td style="text-align: center;">0.21</td><td></td></tr> <tr><td>March</td><td style="text-align: center;">53.7</td><td style="text-align: center;">0.35</td><td style="text-align: center;">7.00</td></tr> <tr><td>April</td><td style="text-align: center;">64.2</td><td style="text-align: center;">0.18</td><td style="text-align: center;">5.72</td></tr> <tr><td>May</td><td style="text-align: center;">73.2</td><td style="text-align: center;">0.16</td><td style="text-align: center;">5.17</td></tr> <tr><td>June</td><td style="text-align: center;">79.2</td><td style="text-align: center;">1.57</td><td style="text-align: center;">6.01</td></tr> <tr><td>July</td><td style="text-align: center;">80.7</td><td style="text-align: center;">1.24</td><td></td></tr> <tr><td>August</td><td style="text-align: center;">78.4</td><td style="text-align: center;">2.61</td><td style="text-align: center;">6.31</td></tr> <tr><td>September</td><td style="text-align: center;">66.9</td><td style="text-align: center;">3.16</td><td></td></tr> <tr><td>October</td><td style="text-align: center;">59.7</td><td style="text-align: center;">1.04</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/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Seasonal Precipitation</td> <td style="text-align: right;">5.6 in.</td> </tr> <tr> <td style="padding-left: 20px;">Total Irrigation</td> <td style="text-align: right;">17.5 in.</td> </tr> </table> Date of Last Spring Frost: 25-Mar Date of First Fall Frost: 28-Oct Frost Free Period: 217 days		Average Temp. °F	Precip. in.	Irrigation in.	January	44.1			February	45.4	0.21		March	53.7	0.35	7.00	April	64.2	0.18	5.72	May	73.2	0.16	5.17	June	79.2	1.57	6.01	July	80.7	1.24		August	78.4	2.61	6.31	September	66.9	3.16		October	59.7	1.04		November				December				Seasonal Precipitation	5.6 in.	Total Irrigation	17.5 in.
	Rate	Date																																																																				
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Seasonal Precipitation	5.6 in.																																																																					
Total Irrigation	17.5 in.																																																																					
Test Design: Replications: 4 Plot Length: 25 ft. Rows per Plot: 2 Row Spacing: 40 in. Seeding Rate: 104000 seeds/a																																																																						

Table 14B. New Mexico 2006 Sorghum x Sudangrass Test - Agricultural Science Center at Artesia

Results

Brand/Company Name	Hybrid/Variety Name	Dry Forage		Green Forage		Moisture at Harvest		Milk per Ton			Milk/Acre			N Uptake			
		1st Cut	2nd Cut	Total	1st Cut	2nd Cut	1st Cut	2nd Cut	1st Cut	2nd Cut	Ave	1st Cut	2nd Cut	Total	1st Cut	2nd Cut	Total
		t/a	t/a	t/a	t/a	t/a	%	%	lb/t	lb/t	lb/t	lb/a	lb/a	lb/a	lb/A	lb/A	lb/A
Dyna-Gro Seed	Dynagrazer BMR	4.4	7.3	11.6	16.5	25.8	73.4	71.9	2114	2150	2132	9292	15616	24908	147	322	469
Dyna-Gro Seed	Dynagrazer	4.3	7.0	11.3	16.3	22.2	73.7	68.4	2288	2042	2165	9792	14314	24106	144	285	429
Dyna-Gro Seed	Danny Boy BMR	4.1	6.5	10.6	15.4	23.8	73.3	72.8	2221	2029	2125	9175	13152	22327	141	259	400
Scott Seed Co.	Premium Stock LS	4.4	5.1	9.4	16.4	19.6	73.2	74.2	2221	1854	2038	9717	9351	19068	147	196	343
Scott Seed Co.	SS Silage	3.8	4.9	8.8	15.4	18.4	75.1	73.4	2170	2042	2106	8332	10020	18351	133	195	328
	Trial Mean	4.2	6.1	10.3	16.0	22.0	73.7	72.1	2203	2023	2113	9262	12491	21752	143	252	394
	LSD	ns	1.1	1.1	ns	3.8	ns	1.6	105	ns	ns	ns	2746	2512	ns	60	59
	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	0.05	0.05
	CV	10.3	12.1	6.9	11.2	11.3	3.5	3.7	3.1	6.4	3.5	11.7	14.3	7.5	10.7	15.6	9.7
	F Test	0.4052	0.0015	0.0004	0.8297	0.0074	0.0727	<0.0001	0.0364	0.0818	0.2415	0.3730	0.0012	0.0003	0.6672	0.0022	0.0011

Table 14C. New Mexico 2006 Sorghum x Sudangrass Test - Agricultural Science Center at Artesia

Results

Brand/Company Name	Hybrid/Variety Name	Crude Protein		ADF		NDF		NDFD-48		Ash		TDN		NE _i		
		1st Cut	2nd Cut	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
Dyna-Gro Seed	Dynagrazer BMR	15.5	13.8	48.1	50.1	65.6	66.9	65.5	65.5	12.6	11.4	50.0	50.5	0.50	0.51	
Dyna-Gro Seed	Dynagrazer	15.6	12.7	46.7	51.9	63.7	68.3	66.9	65.1	12.3	12.0	52.2	49.0	0.53	0.49	
Dyna-Gro Seed	Danny Boy BMR	15.9	12.5	47.0	52.8	64.4	70.4	66.5	67.3	12.2	12.5	51.4	48.6	0.52	0.49	
Scott Seed Co.	Premium Stock LS	15.5	12.2	47.1	54.1	64.2	71.4	65.7	64.1	11.8	12.1	51.4	46.5	0.52	0.46	
Scott Seed Co.	SS Silage	16.0	12.4	47.7	52.2	65.6	68.5	67.4	65.6	13.0	11.9	50.6	49.0	0.51	0.49	
Trial Mean		15.7	12.7	47.3	52.2	64.7	69.1	66.4	65.5	12.4	12.0	51.1	48.7	0.51	0.49	
LSD		ns	ns	ns	2.4	ns	3.0	1.2	2.0	ns	ns	1.4	ns	0.02	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		3.1	7.2	2.2	2.9	1.6	2.8	1.0	2.0	5.1	8.3	1.8	3.6	2.0	4.0	
F Test		0.4746	0.1515	0.3559	0.0333	0.0813	0.0405	0.0079	0.0483	0.1188	0.6616	0.0343	0.0894	0.0343	0.0894	

Table 15A. New Mexico 2006 Sorghum x Sudangrass and Millet Performance Test - Agricultural Science Center at Clovis

Investigators: M.A. Marsalis, R.E. Kirksey, N. Pryor, 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: 7-Jun *Harvest Dates: 27-Jul 1st Harvests 31-Jul 7-Aug 3-Oct 2nd Harvest 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>127 lb/a</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>18 lb/a</td> <td>22-May</td> </tr> <tr> <td>Nitrogen</td> <td>82 lb/a</td> <td>22-May</td> </tr> <tr> <td>Nitrogen</td> <td>50 lb/a</td> <td>7-Aug</td> </tr> <tr> <td>P2O5</td> <td>60 lb/a</td> <td>22-May</td> </tr> <tr> <td>S</td> <td>15 lb/a</td> <td>22-May</td> </tr> <tr> <td>Zn</td> <td>1 lb/a</td> <td>22-May</td> </tr> </tbody> </table> Herbicides: Aatrex 2 pt/a 7-Jun Insecticides: None *Harvests at early boot or at 40" tall		Rate	Date	Fertilizer:			Nitrogen	127 lb/a	carryover	Nitrogen	18 lb/a	22-May	Nitrogen	82 lb/a	22-May	Nitrogen	50 lb/a	7-Aug	P2O5	60 lb/a	22-May	S	15 lb/a	22-May	Zn	1 lb/a	22-May	<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>42.8</td><td>0.00</td><td></td></tr> <tr><td>February</td><td>40.9</td><td>0.09</td><td></td></tr> <tr><td>March</td><td>48.0</td><td>0.61</td><td></td></tr> <tr><td>April</td><td>59.8</td><td>0.25</td><td></td></tr> <tr><td>May</td><td>68.5</td><td>0.56</td><td></td></tr> <tr><td>June</td><td>76.0</td><td>0.68</td><td>4.55</td></tr> <tr><td>July</td><td>77.0</td><td>0.66</td><td>5.85</td></tr> <tr><td>August</td><td>73.0</td><td>4.89</td><td>2.60</td></tr> <tr><td>September</td><td>67.5</td><td>1.90</td><td>1.00</td></tr> <tr><td>October</td><td>55.0</td><td>1.78</td><td></td></tr> <tr><td>November</td><td>47.0</td><td>0.06</td><td></td></tr> <tr><td>December</td><td>36.0</td><td>1.20</td><td></td></tr> </tbody> </table> Seasonal Precipitation 8.1 in. Total Irrigation 14.0 in. Date of Last Spring Frost: 25-Apr Date of First Fall Frost: 13-Oct Frost Free Period: 171 days		Average Temp. °F	Precip. in.	Irrigation in.	January	42.8	0.00		February	40.9	0.09		March	48.0	0.61		April	59.8	0.25		May	68.5	0.56		June	76.0	0.68	4.55	July	77.0	0.66	5.85	August	73.0	4.89	2.60	September	67.5	1.90	1.00	October	55.0	1.78		November	47.0	0.06		December	36.0	1.20	
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Test Design: Replications: 4 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 320000 seed/a																																																																																	

Table 15B. New Mexico 2006 Sorghum x Sudangrass and Millet Performance Test - Agricultural Science Center at Clovis.

Results

Brand/Company Name	Hybrid/Variety Name	Dry Forage		Green Forage			Moisture at Harvest		Milk per ton			Milk per acre		
		1st Cut	2nd Cut	Total	1st Cut	2nd Cut	1st Cut	2nd Cut	1st Cut	2nd Cut	Ave	1st Cut	2nd Cut	Total
		t/a	t/a	t/a	t/a	t/a	%	%	lb/t	lb/t	lb/t	lb/a	lb/a	lb/a
Seed Resource	SS 206 BMR	4.3	4.0	8.3	20.6	19.2	79.4	79.0	2892	2285	2588	12324	9229	21553
Dyna-Gro Seed	Dynagrazer BMR	4.1	4.2	8.3	22.8	21.3	82.0	80.2	2871	2565	2719	11813	10828	22640
Seed Resource	SS 200 BMR	3.2	4.9	8.1	19.4	21.1	83.7	76.9	2872	2447	2659	9105	11909	21014
Scott Seed Co.	BMR Gold II	5.0	3.1	8.1	24.5	15.7	79.7	80.2	2847	2513	2680	14154	7852	22006
Richardson Seed	Sweeter N Honey II	5.2	2.5	7.7	27.0	12.8	80.6	80.5	2604	2387	2496	13675	6032	19707
Dyna-Gro Seed	Danny Boy BMR	5.0	2.6	7.6	29.3	16.3	82.7	84.2	2757	2246	2502	13924	5864	19788
Scott Seed Co.	BMR Gold III	3.3	4.2	7.5	21.3	22.7	84.8	81.6	2913	2310	2612	9501	9647	19148
Filler	Filler	2.9	4.6	7.5	18.4	21.0	84.3	77.8	2693	2258	2475	7794	10490	18284
Seed Resource	SS 204 BMR	3.6	3.7	7.3	20.6	18.3	82.6	80.0	2871	2221	2546	10384	8087	18470
Dyna-Gro Seed	Dynagrazer	2.6	4.5	7.1	15.6	19.2	83.1	76.5	2875	2391	2633	7621	10831	18452
Seed Resource	MilHy 300	4.6	2.4	7.0	26.7	7.7	82.8	67.5	2847	2520	2684	13014	5973	18986
Scott Seed Co.	Premium Stock LS	3.6	3.2	6.8	24.9	16.8	85.6	80.7	2594	2484	2539	9294	8018	17313
Seed Resource	MilHy 500	4.0	2.4	6.4	25.7	11.3	84.3	78.8	2855	2438	2646	11429	5845	17273
Seed Resource	MilHy 400	3.5	2.3	5.8	21.0	10.3	83.5	77.7	2848	2585	2717	9851	5915	15766
Richardson Seed	Sweeter N Honey BMR	3.6	2.0	5.6	17.8	10.0	79.6	80.4	2868	2480	2674	10262	4862	15125
	Trial Mean	3.9	3.4	7.3	22.4	16.2	82.6	78.8	2814	2409	2611	10943	8092	19035
	LSD	0.6	1.0	1.3	2.8	4.1	2.3	7.2	150	162	122	1871	2510	3508
	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	11.7	20.2	12.4	8.9	17.5	1.9	6.4	3.7	4.7	3.3	12.0	21.7	12.9
	F Test	<0.0001	<0.0001	0.0007	<0.0001	<0.0001	<0.0001	0.0306	0.0004	<0.0001	0.0005	<0.0001	<0.0001	0.0021

Table 15C. New Mexico 2006 Sorghum x Sudangrass and Millet Performance Test - Agricultural Science Center at Clovis.

Results

Brand/Company Name	Hybrid/Variety Name	Crude Protein		ADF		NDF		NDFD-48		Ash		TDN		NE _i	
		1st Cut	2nd Cut	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
Seed Resource	SS 206 BMR	12.9	11.8	34.3	44.2	58.4	63.6	69.1	63.7	6.8	9.5	60.5	52.5	0.62	0.53
Dyna-Gro Seed	Dynagrazer BMR	13.4	12.8	33.2	39.9	56.6	58.5	68.7	66.6	7.7	9.9	60.2	56.1	0.62	0.57
Seed Resource	SS 200 BMR	14.7	11.4	33.4	42.7	57.6	62.3	68.8	64.2	7.8	8.1	60.2	54.7	0.62	0.56
Scott Seed Co.	BMR Gold II	12.5	13.3	34.1	40.9	58.1	59.9	68.8	66.2	7.0	9.7	59.8	55.5	0.61	0.56
Richardson Seed	Sweeter N Honey II	11.7	13.4	37.7	41.9	61.1	60.1	65.9	63.6	7.7	10.0	56.8	54.0	0.58	0.55
Dyna-Gro Seed	Danny Boy BMR	13.8	13.7	35.3	44.4	59.1	63.6	69.4	65.7	9.0	11.6	58.5	51.8	0.60	0.52
Scott Seed Co.	BMR Gold III	17.1	12.3	32.5	44.0	55.8	63.5	71.0	66.1	9.6	10.7	60.6	52.6	0.62	0.53
Filler	Filler	14.3	11.9	36.3	43.7	59.3	62.3	67.0	61.6	8.2	9.0	57.9	52.4	0.59	0.53
Seed Resource	SS 204 BMR	14.1	12.0	34.6	45.0	58.7	64.0	69.1	62.7	7.1	9.6	60.2	51.8	0.62	0.52
Dyna-Gro Seed	Dynagrazer	15.1	11.6	32.9	42.3	55.8	60.8	68.2	62.4	8.2	8.5	60.3	54.2	0.62	0.55
Seed Resource	MilHy 300	15.8	15.1	34.5	40.2	56.5	56.7	69.5	65.4	8.6	10.8	59.8	55.6	0.61	0.57
Scott Seed Co.	Premium Stock LS	13.6	12.2	37.1	41.6	60.9	60.3	67.1	64.9	9.0	9.1	56.5	55.2	0.57	0.56
Seed Resource	MilHy 500	17.8	15.3	34.0	41.1	54.8	57.5	70.8	66.9	10.5	13.0	59.8	54.3	0.61	0.55
Seed Resource	MilHy 400	17.0	15.8	34.9	38.9	56.3	54.6	72.0	68.3	10.2	13.1	59.6	56.2	0.61	0.57
Richardson Seed	Sweeter N Honey BMR	13.6	13.3	34.6	41.7	58.0	60.3	70.5	66.2	8.3	10.0	60.0	55.0	0.61	0.56
Trial Mean		14.5	13.1	34.6	42.2	57.8	60.5	69.1	65.0	8.4	10.2	59.4	54.1	0.61	0.55
LSD		1.5	0.8	2.4	1.9	2.8	2.4	2.2	1.6	0.9	1.0	1.9	2.1	0.02	0.02
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		7.4	4.3	4.9	3.2	3.4	2.8	2.2	1.7	7.8	6.7	2.3	2.8	2.5	3.0
F Test		<0.0001	<0.0001	0.0022	<0.0001	0.0006	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	0.0004	0.0001	0.0004	0.0001

Table 16A. New Mexico 2005 Irrigated Sorghum x Sudangrass and Forage Sorg. Performance Test - Agric. Science Center at Tucumcari

Investigators: L.M. Lauriault, R.E. Kirksey, P.L. Cooksey, T. Elam, C. Henson, M.L. Mead, and L.F. Perkins

Test Description

Location:	Management Practices:	Growing Conditions:																																																																																																			
County/Area: Quay Longitude: -104.60 Latitude: 35.18 Elevation: 4191 ft. Soil Name: Canez Soil Texture: fine sandy loam Soil Depth: >60 in.	Previous Crop: sudangrass Planting Date: 16-May Harvest Dates: 26-Jul 13-Oct 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 style="padding-left: 20px;">Nitrogen</td> <td style="text-align: center;">114 lb/a</td> <td style="text-align: center;">26-Apr</td> </tr> <tr> <td style="padding-left: 20px;">P2O5</td> <td style="text-align: center;">52 lb/a</td> <td style="text-align: center;">26-Apr</td> </tr> <tr> <td colspan="3">Herbicides:</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;">27-Apr</td> </tr> <tr> <td style="padding-left: 20px;">2,4-D</td> <td style="text-align: center;">2 pt/ac</td> <td style="text-align: center;">27-Jun</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td style="padding-left: 20px;">none</td> <td></td> <td></td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	114 lb/a	26-Apr	P2O5	52 lb/a	26-Apr	Herbicides:			Aatrex 80W	2.5 lb/a	27-Apr	2,4-D	2 pt/ac	27-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;">71</td><td style="text-align: center;">1.14</td><td style="text-align: center;">6.0</td></tr> <tr><td>June</td><td style="text-align: center;">80</td><td style="text-align: center;">1.72</td><td></td></tr> <tr><td>July</td><td style="text-align: center;">81</td><td style="text-align: center;">3.22</td><td style="text-align: center;">6.0</td></tr> <tr><td>August</td><td style="text-align: center;">77</td><td style="text-align: center;">5.10</td><td></td></tr> <tr><td>September</td><td style="text-align: center;">66</td><td style="text-align: center;">1.42</td><td></td></tr> <tr><td>October</td><td style="text-align: center;">59</td><td style="text-align: center;">1.08</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 style="padding-left: 20px;">Seasonal Precipitation</td> <td></td> <td style="text-align: center;">11.5 in.</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Total Irrigation</td> <td></td> <td></td> <td style="text-align: center;">12.0 in.</td> </tr> <tr> <td>Date of Last Spring Frost:</td> <td colspan="3" style="text-align: center;">24-Mar</td> </tr> <tr> <td>Date of First Fall Frost:</td> <td colspan="3" style="text-align: center;">27-Oct</td> </tr> <tr> <td>Frost Free Period:</td> <td colspan="3" style="text-align: center;">217 days</td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March				April				May	71	1.14	6.0	June	80	1.72		July	81	3.22	6.0	August	77	5.10		September	66	1.42		October	59	1.08		November				December				Seasonal Precipitation		11.5 in.		Total Irrigation			12.0 in.	Date of Last Spring Frost:	24-Mar			Date of First Fall Frost:	27-Oct			Frost Free Period:	217 days		
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Table 16B. New Mexico 2006 Irrigated Sorghum x Sudangrass and Forage Sorg. Performance Test - Agric. Science Center at Tukumcari

Results

Brand/Company Name	Hybrid/Variety Name	Type	Harvest 1					Harvest 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	
Seed Resource	BMR106	FS	2.5	11.1	78.0	2911	7196	0.8	3.2	74.6	2890	3086	3.25
Richardson Seed	BundleKing BMR	FS	1.7	8.5	80.2	2749	4512	0.2	0.9	74.4	3041	2907	1.88
Seed Resource	FS555	FS	2.5	14.0	82.1	2746	6767	0.5	1.9	75.2	2945	1809	2.94
Seed, Inc.	Hegari	FS	1.9	9.1	79.6	2805	5156	1.1	4.5	74.1	3139	6955	2.96
Seed Resource	PS210BMR	SxS	1.8	10.2	83.0	2745	4807	1.8	7.0	75.3	2703	4769	3.50
Seed, Inc.	Ribbon Grazer	SxS	2.6	11.5	77.7	2766	7110	3.2	11.2	71.8	2847	8942	5.75
Seed Resource	SS200BMR	FS	2.0	8.6	77.3	2924	5783	2.1	8.3	74.7	2813	5879	4.06
Seed Resource	SS204BMR	FS	2.2	10.3	78.3	2837	6360	2.5	9.3	73.1	2863	7036	4.72
Seed Resource	SS206BMR	FS	2.5	11.4	78.3	2916	7118	1.1	3.7	71.7	2788	3906	3.51
Richardson Seed	Sweeter'N Honey II	SxS	2.1	10.9	80.7	2737	5677	2.8	11.2	74.7	2822	7882	4.85
	Trial Mean		2.2	10.6	79.5	2813	6049	1.6	6.1	73.9	2856	5664	3.74
	LSD		0.6	3.5	ns	ns	2088	1.0	4.5	ns	ns	ns	1.27
	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		18.3	21.2	2.9	5.1	22.2	44.3	46.7	3.0	4.9	34.3	21.87
	F Test		0.0125	0.0372	0.2351	0.6050	0.0497	0.0025	0.0056	0.6475	0.4867	0.2137	0.0021

Table 16C. New Mexico 2006 Irrigated Sorghum x Sudangrass and Forage Sorg. Performance Test - Agric. Science Center at Tucumcari

Results

Brand/Company Name	Hybrid/Variety Name	Type	Harvest 1						Harvest 2					
			CP %	ADF %	NDF %	Ash %	TDN %	NE _i Mcal/lb	CP %	ADF %	NDF %	Ash %	TDN %	NE _i Mcal/lb
Seed Resource	BMR106	FS	15.9	39.5	55.3	8.3	60.9	0.62	12.5	42.1	57.9	6.4	60.6	0.62
Richardson Seed	BundleKing BMR	FS	16.0	41.8	58.3	8.6	58.7	0.60	12.7	40.3	55.7	6.9	62.4	0.64
Seed Resource	FS555	FS	15.5	42.5	57.5	8.8	58.7	0.60	12.4	41.8	56.5	7.5	61.1	0.63
Seed, Inc.	Hegari	FS	14.9	41.5	57.0	8.3	59.5	0.61	10.8	39.6	55.2	5.8	63.7	0.65
Seed Resource	PS210BMR	SxS	17.2	40.2	55.8	10.0	58.6	0.60	13.0	43.3	58.4	9.4	57.9	0.59
Seed, Inc.	Ribbon Grazer	SxS	14.2	41.7	57.4	8.2	58.9	0.60	12.8	40.9	56.7	6.7	60.2	0.62
Seed Resource	SS200BMR	FS	14.8	40.7	56.7	7.5	61.0	0.62	12.6	42.7	58.6	6.6	59.7	0.61
Seed Resource	SS204BMR	FS	14.6	41.9	57.5	8.4	59.7	0.61	11.7	43.0	58.2	7.0	60.2	0.62
Seed Resource	SS206BMR	FS	15.4	40.2	55.8	8.0	60.9	0.62	11.6	42.3	58.7	6.6	59.4	0.61
Richardson Seed	Sweeter'N Honey II	SxS	15.3	42.0	57.6	8.7	58.6	0.60	12.5	41.2	56.9	6.5	60.0	0.61
	Trial Mean		15.4	41.2	56.9	8.5	59.5	0.61	12.3	49.5	57.5	7.0	60.1	0.62
	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		8.4	5.6	5.2	9.2	3.1	3.4	9.9	5.2	4.7	11.8	3.0	3.3
	F Test		0.2892	0.7012	0.8875	0.2163	0.5925	0.6029	0.4579	0.8414	0.8495	0.4318	0.5127	0.5126

Table 17A. New Mexico 2006 Full Irrigated Grain Sorghum Performance Test - Agricultural Science Center at Clovis

Investigators: R.E. Kirksey, M.A. Marsalis, A. Scott, and N. Pryor

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: Cotton Planting Date: 19-May Harvest Date: 6-Nov <hr/> 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 style="padding-left: 20px;">Nitrogen</td> <td style="text-align: center;">15 lb/a</td> <td style="text-align: center;">15-Dec-05</td> </tr> <tr> <td style="padding-left: 20px;">P₂O₅</td> <td style="text-align: center;">70 lb/a</td> <td style="text-align: center;">15-Dec-05</td> </tr> <tr> <td style="padding-left: 20px;">S</td> <td style="text-align: center;">20 lb/a</td> <td style="text-align: center;">15-Dec-05</td> </tr> <tr> <td style="padding-left: 20px;">Zn</td> <td style="text-align: center;">5 lb/a</td> <td style="text-align: center;">15-Dec-05</td> </tr> </tbody> </table> Herbicides: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding-left: 20px;">Aatrex</td> <td style="text-align: center;">2 pt/a</td> <td style="text-align: center;">19-May</td> </tr> </table> Insecticides: <hr/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding-left: 20px;">None</td> </tr> </table>		Rate	Date	Fertilizer:			Nitrogen	15 lb/a	15-Dec-05	P ₂ O ₅	70 lb/a	15-Dec-05	S	20 lb/a	15-Dec-05	Zn	5 lb/a	15-Dec-05	Aatrex	2 pt/a	19-May	None	<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 style="text-align: center;">42.8</td><td style="text-align: center;">0.00</td><td></td></tr> <tr><td>February</td><td style="text-align: center;">40.9</td><td style="text-align: center;">0.09</td><td></td></tr> <tr><td>March</td><td style="text-align: center;">48.0</td><td style="text-align: center;">0.61</td><td></td></tr> <tr><td>April</td><td style="text-align: center;">59.8</td><td style="text-align: center;">0.25</td><td></td></tr> <tr><td>May</td><td style="text-align: center;">68.5</td><td style="text-align: center;">0.56</td><td style="text-align: center;">1.30</td></tr> <tr><td>June</td><td style="text-align: center;">76.0</td><td style="text-align: center;">0.68</td><td style="text-align: center;">2.25</td></tr> <tr><td>July</td><td style="text-align: center;">77.0</td><td style="text-align: center;">0.66</td><td style="text-align: center;">9.40</td></tr> <tr><td>August</td><td style="text-align: center;">73.0</td><td style="text-align: center;">4.89</td><td style="text-align: center;">1.40</td></tr> <tr><td>September</td><td style="text-align: center;">67.5</td><td style="text-align: center;">1.90</td><td></td></tr> <tr><td>October</td><td style="text-align: center;">55.0</td><td style="text-align: center;">1.78</td><td></td></tr> <tr><td>November</td><td style="text-align: center;">47.0</td><td style="text-align: center;">0.06</td><td></td></tr> <tr><td>December</td><td style="text-align: center;">36.0</td><td style="text-align: center;">1.20</td><td></td></tr> </tbody> </table> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding-left: 20px;">Seasonal Precipitation:</td> <td style="text-align: right;">10.5 in.</td> </tr> <tr> <td style="padding-left: 40px;">Total Irrigation:</td> <td style="text-align: right;">14.4 in.</td> </tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding-left: 20px;">Date of Last Spring Frost:</td> <td style="text-align: right;">25-Apr</td> </tr> <tr> <td style="padding-left: 20px;">Date of First Fall Frost:</td> <td style="text-align: right;">13-Oct</td> </tr> <tr> <td style="padding-left: 40px;">Frost Free Period:</td> <td style="text-align: right;">171 days</td> </tr> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January	42.8	0.00		February	40.9	0.09		March	48.0	0.61		April	59.8	0.25		May	68.5	0.56	1.30	June	76.0	0.68	2.25	July	77.0	0.66	9.40	August	73.0	4.89	1.40	September	67.5	1.90		October	55.0	1.78		November	47.0	0.06		December	36.0	1.20		Seasonal Precipitation:	10.5 in.	Total Irrigation:	14.4 in.	Date of Last Spring Frost:	25-Apr	Date of First Fall Frost:	13-Oct	Frost Free Period:	171 days
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Table 17B. New Mexico 2006 Full Irrigated Grain Sorghum Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company	Name	Hybrid/Variety Name	Grain Yield bu/a	Grain Yield lb/a	Moisture		Plant Height in	Head Exertion in	Lodging %	Heading Date
					at Harvest %	Test Weight lb/bu				
Dyna-Gro Seed		X1743	157.7	8831	12.0	56.4	43.6	6.7	1.5	30-Jul
NC+ Hybrids		NC+ 7B51	136.1	7621	12.8	60.2	45.1	9.8	0.3	25-Jul
Dyna-Gro Seed		X1755	128.2	7180	12.5	60.2	44.8	9.8	1.3	27-Jul
Garrison & Townsend, Inc		23194	128.1	7175	12.7	60.7	52.4	15.2	1.5	27-Jul
NC+ Hybrids		NC+ 7R83	127.6	7144	12.8	59.9	53.0	12.3	27.5	31-Jul
Dyna-Gro Seed		GXO 6170	124.8	6990	12.5	61.3	49.5	8.2	1.0	25-Jul
Garrison & Townsend, Inc		25128	121.5	6805	12.6	59.4	43.0	7.6	1.0	24-Jul
Dyna-Gro Seed		GXO 6428	112.7	6314	12.7	59.7	45.1	9.4	0.3	24-Jul
Garrison & Townsend, Inc		24656	112.1	6278	12.3	58.0	40.3	8.3	0.0	21-Jul
Dyna-Gro Seed		740 C	106.2	5949	12.2	59.4	43.4	8.9	0.0	21-Jul
Garrison & Townsend, Inc		99396	99.7	5583	12.6	59.5	39.5	9.8	0.3	22-Jul
Richardson Seed		Sprint W	92.9	5201	11.9	58.7	41.3	10.3	0.0	21-Jul
Garrison & Townsend, Inc		23012	90.5	5070	12.1	59.3	36.2	6.9	0.0	20-Jul
NC+ Hybrids		NC+ 8R18	88.2	4940	12.8	60.6	57.6	13.4	54.5	1-Aug
Richardson Seed		Sprint II	70.8	3967	13.0	58.0	42.3	10.0	0.3	17-Jul
Richardson Seed		RS225	70.4	3943	12.5	58.7	41.7	5.1	0.0	21-Jul
		Trial Mean	110.5	6187	12.5	59.4	44.9	9.5	5.6	24-Jul
		LSD	38.0	2128	0.3	1.3	4.6	2.5	23.0	2.2
		LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
		CV	24.2	24.2	1.7	1.5	7.1	18.8	288.9	0.7
		F Test	0.0011	0.0011	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001

Table 18A. New Mexico 2006 Limited Irrigated Grain Sorghum Performance Test - Agricultural Science Center at Clovis

Investigators: R.E. Kirksey, M.A. Marsalis, A. Scott, and N. Pryor

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: Cotton Planting Date: 19-May Harvest Date: 6-Nov <hr/> 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 style="text-align: center;">15 lb/a</td> <td style="text-align: center;">15-Dec-05</td> </tr> <tr> <td>P₂O₅</td> <td style="text-align: center;">70 lb/a</td> <td style="text-align: center;">15-Dec-05</td> </tr> <tr> <td>S</td> <td style="text-align: center;">20 lb/a</td> <td style="text-align: center;">15-Dec-05</td> </tr> <tr> <td>Zn</td> <td style="text-align: center;">5 lb/a</td> <td style="text-align: center;">15-Dec-05</td> </tr> </tbody> </table> Herbicides: Aatrex 2 pts/a 19-May Insecticides: None		Rate	Date	Fertilizer:			Nitrogen	15 lb/a	15-Dec-05	P ₂ O ₅	70 lb/a	15-Dec-05	S	20 lb/a	15-Dec-05	Zn	5 lb/a	15-Dec-05	<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 style="text-align: center;">42.8</td><td style="text-align: center;">0.00</td><td></td></tr> <tr><td>February</td><td style="text-align: center;">40.9</td><td style="text-align: center;">0.09</td><td></td></tr> <tr><td>March</td><td style="text-align: center;">48.0</td><td style="text-align: center;">0.61</td><td></td></tr> <tr><td>April</td><td style="text-align: center;">59.8</td><td style="text-align: center;">0.25</td><td></td></tr> <tr><td>May</td><td style="text-align: center;">68.5</td><td style="text-align: center;">0.56</td><td style="text-align: center;">1.30</td></tr> <tr><td>June</td><td style="text-align: center;">76.0</td><td style="text-align: center;">0.68</td><td style="text-align: center;">1.25</td></tr> <tr><td>July</td><td style="text-align: center;">77.0</td><td style="text-align: center;">0.66</td><td style="text-align: center;">5.60</td></tr> <tr><td>August</td><td style="text-align: center;">73.0</td><td style="text-align: center;">4.89</td><td style="text-align: center;">0.70</td></tr> <tr><td>September</td><td style="text-align: center;">67.5</td><td style="text-align: center;">1.90</td><td></td></tr> <tr><td>October</td><td style="text-align: center;">55.0</td><td style="text-align: center;">1.78</td><td></td></tr> <tr><td>November</td><td style="text-align: center;">47.0</td><td style="text-align: center;">0.06</td><td></td></tr> <tr><td>December</td><td style="text-align: center;">36.0</td><td style="text-align: center;">1.20</td><td></td></tr> </tbody> </table> Seasonal Precipitation: 10.5 in. Total Irrigation: 8.9 in. Date of Last Spring Frost: 25-Apr Date of First Fall Frost: 13-Oct Frost Free Period: 171 days		Average Temp. °F	Precip. in.	Irrigation in.	January	42.8	0.00		February	40.9	0.09		March	48.0	0.61		April	59.8	0.25		May	68.5	0.56	1.30	June	76.0	0.68	1.25	July	77.0	0.66	5.60	August	73.0	4.89	0.70	September	67.5	1.90		October	55.0	1.78		November	47.0	0.06		December	36.0	1.20	
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Test Design: Replications: 4 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 80000 seed/a																																																																								

Table 18B. New Mexico 2006 Limited Irrigated Grain Sorghum Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Grain Yield	Grain Yield	Moisture	Test Weight	Plant Height	Head Exertion	Lodging	Heading Date
				at Harvest					
		bu/a	lb/a	%	lb/bu	in	in	%	
Dyna-Gro Seed	X1743	112.1	6278	12.8	57.8	31.9	2.5	1.0	4-Aug
Dyna-Gro Seed	X1755	88.7	4965	13.9	57.6	33.1	3.4	0.0	29-Jul
NC+ Hybrids	NC+ 6B50	86.5	4842	13.5	58.0	32.1	2.4	0.3	22-Jul
NC+ Hybrids	NC+ 7B51	77.3	4327	13.3	57.8	31.7	4.5	4.0	25-Jul
NC+ Hybrids	NC+ 7C22	73.3	4107	13.3	57.9	32.2	1.6	1.5	23-Jul
Dyna-Gro Seed	740 C	69.5	3892	13.3	57.0	36.7	3.5	0.8	22-Jul
Dyna-Gro Seed	732 B	62.5	3502	13.3	58.7	31.2	2.1	3.0	23-Jul
	Trial Mean	81.4	4559	13.3	57.8	33	2.9	1.5	26-Jul
	LSD	17.2	962	0.4	ns	ns	1.3	3.3	3.0
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	14.2	14.2	1.9	1.9	9.6	31.1	148.4	1.0
	F Test	0.0003	0.0003	0.0006	0.5245	0.2610	0.0026	0.1632	<0.0001

Table 19A. New Mexico 2006 Grain Sorghum Performance Test - Agricultural Science Center at Los Lunas

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

Test Description

Location:		Management Practices:			Growing Conditions:			
County/Area:	Valencia	Previous Crop:	Alfalfa		Average			
Longitude:	-106.45	Planting Date:	9-May		Temp. Precip. Irrigation			
Latitude:	34.46	Harvest Date:	4-Oct		of in. in.			
Elevation:	4840 ft.				January	36.5	0.03	
Soil Name:	Belen				February	41.3	0.00	
Soil Texture:	clay loam				March	47.4	0.28	
Soil Depth:	60 in.				April	59.0	0.05	
					May	68.3	0.00	6.00
					June	76.1	0.86	6.00
					July	79.1	2.49	6.00
					August	74.2	2.84	3.00
					September	64.1	0.51	6.00
					October	55.2	1.59	
					November '05	44.7	0.00	
					December '05	35.6	0.08	
					Seasonal Precipitation		6.7 in.	
					Total Irrigation		27.0 in.	
					Date of Last Spring Frost:	21-Apr		
					Date of First Fall Frost:	19-Sep		
					Frost Free Period:	151 days		

Test Design:

Replications: 4
 Plot Length: 10 ft.
 Rows per Plot: 2
 Row Spacing: 30 in.
 Seeding Rate: 70000 seed/a

Production Inputs

	Rate	Date
--	------	------

Fertilizer:

Nitrogen	51 lb/a	22-Feb
Nitrogen	106 lb/a	24-May
Nitrogen	155 lb/a	8-Jun
P2O5	25 lb/a	22-Feb
K2O	25 lb/a	22-Feb
K2O	128 lb/a	28-Mar

Herbicides:

Clarity	8 oz/a	9-May
Atrazine	1 qt/a	2-Jun

Table 19B. New Mexico 2006 Grain Sorghum Performance Test - Agricultural Science Center at Los Lunas

Results								
Brand/Company Name	Hybrid/Variety Name	Grain Yield	Grain Yield	Moisture at Harvest	Test Weight	Plant Height	Head Exertion	Lodging
		bu/a	lb/ac	%	lb/bu	in	in	%
NC+ Hybrids	NC+ 7R83	172.4	9653	14.4	59.2	40.0	6.8	0
NC+ Hybrids	NC+ 6B50	162.5	9098	12.5	59.6	37.3	6.0	0
	Trial Mean	167.4	9376	13.5	59.4	38.7	6.4	0
	LSD	ns	ns	0.8	ns	ns	ns	-
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	-
	CV	13.6	13.6	2.7	2.4	11.4	29.2	-
	F Test	0.5804	0.5804	0.0052	0.7177	0.4429	0.6084	-

Table 20A. New Mexico 2006 Full Irrigation Grain Sorghum Performance Test - Agric. Science Center at Tucumcari

Investigators: L.M. Lauriault, R.E. Kirksey, P.L. Cooksey, T. Elam, C. Henson, M.L. Mead, and L.F. Perkins

Test Description

Location:		Management Practices:			Growing Conditions:																																																																										
County/Area:	Quay	Previous Crop:	sudangrass																																																																												
Longitude:	-104.60	Planting Date:	17-May																																																																												
Latitude:	35.18	Harvest Dates:	2-Nov																																																																												
Elevation:	4191 ft.																																																																														
Soil Name:	Canez																																																																														
Soil Texture:	fine sandy loam																																																																														
Soil Depth:	>60 in.																																																																														
		Production Inputs																																																																													
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Table 20B. New Mexico 2006 Full Irrigation Grain Sorghum Performance Test - Agric. Science Center at Tucumcari

Results

Brand/Company Name	Hybrid/Variety Name	Grain Yield bu/a	Grain Yield lb/a	Moisture	Test Weight lb/bu	Heading Date	Head Fill %
				at Harvest %			
NC+ Hybrids	8R18	121.4	6801	9.1	57.5	30-Jul	95.0
NC+ Hybrids	6B50	96.4	5401	9.4	52.8	24-Jul	90.0
NC+ Hybrids	7R83	79.3	4439	9.8	57.1	31-Jul	71.7
NC+ Hybrids	7B51	48.7	2727	10.2	55.5	1-Aug	72.5
	Trial Mean	85.7	4797	9.6	55.9	29-Jul	81.1
	LSD	ns	ns	ns	1.9	ns	ns
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05
	CV	44.2	44.2	11.1	1.5	11.1	11.5
	F Test	0.3809	0.3809	0.7321	0.0273	0.1228	0.2681

Table 21A. New Mexico 2006 Limited Irrigation Grain Sorghum Performance Test - Agric. Science Center at Tucumcari

Investigators: L.M. Lauriault, R.E. Kirksey, P.L. Cooksey, T. Elam, C. Henson, M.L. Mead, and L.F. Perkins

Test Description

Location:	Management Practices:	Growing Conditions:																																																																														
County/Area: Quay Longitude: -104.60 Latitude: 35.18 Elevation: 4191 ft. Soil Name: Canez Soil Texture: fine sandy loam Soil Depth: >60 in.	Previous Crop: sudangrass Planting Date: 17-May Harvest Dates: 2-Nov Production Inputs <table data-bbox="772 657 1285 914"><thead><tr><th></th><th>Rate</th><th>Date</th></tr></thead><tbody><tr><td>Fertilizer:</td><td></td><td></td></tr><tr><td> Nitrogen</td><td>103 lb/a</td><td>26-Apr</td></tr><tr><td> P2O5</td><td>52 lb/a</td><td>26-Apr</td></tr><tr><td>Herbicides:</td><td></td><td></td></tr><tr><td> Dual Magnum</td><td>2 pt/ac</td><td>27-Apr</td></tr><tr><td>Insecticides:</td><td></td><td></td></tr><tr><td> none</td><td></td><td></td></tr></tbody></table>		Rate	Date	Fertilizer:			Nitrogen	103 lb/a	26-Apr	P2O5	52 lb/a	26-Apr	Herbicides:			Dual Magnum	2 pt/ac	27-Apr	Insecticides:			none			<table data-bbox="1360 492 1852 976"><thead><tr><th></th><th>Average Temp. °F</th><th>Precip. in.</th><th>Furrow 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>71</td><td>1.14</td><td>6.0</td></tr><tr><td>June</td><td>80</td><td>1.72</td><td></td></tr><tr><td>July</td><td>81</td><td>3.22</td><td>6.0</td></tr><tr><td>August</td><td>77</td><td>5.10</td><td></td></tr><tr><td>September</td><td>66</td><td>1.42</td><td></td></tr><tr><td>October</td><td>59</td><td>1.08</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>				Average Temp. °F	Precip. in.	Furrow Irrigation in.	January				February				March				April				May	71	1.14	6.0	June	80	1.72		July	81	3.22	6.0	August	77	5.10		September	66	1.42		October	59	1.08		November				December			
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Table 21B. New Mexico 2006 Limited Irrigation Grain Sorghum Performance Test - Agric. Science Center at Tucumcari

Results

Brand/Company Name	Hybrid/Variety Name	Grain Yield bu/a	Grain Yield lb/a	Moisture	Test Weight lb/bu	Heading Date	Head Fill %
				at Harvest %			
NC+ Hybrids	5B89	89.2	4996	8.5	55.4	14-Jul	70.0
NC+ Hybrids	7C22	87.3	4888	9.3	56.0	25-Jul	90.0
NC+ Hybrids	7B51	85.6	4796	8.6	56.4	26-Jul	88.8
NC+ Hybrids	6B50	58.6	3284	8.7	54.8	19-Jul	65.0
	Trial Mean	79.7	4465	87.0	55.6	21-Jul	77.7
	LSD	ns	ns	ns	ns	5	14.3
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05
	CV	27.5	27.5	7.7	4.4	1.6	11.3
	F Test	0.2398	0.2398	0.5683	0.8121	0.0027	0.0050

Table 22A. New Mexico 2006 Dryland Grain Sorghum Performance Test - Agric. Science Center at Tucumcari

Investigators: L.M. Lauriault, R.E. Kirksey, P.L. Cooksey, T. Elam, C. Henson, M.L. Mead, and L.F. Perkins

Test Description

<p>Location: County/Area: Quay Longitude: -104.60 Latitude: 35.18 Elevation: 4191 ft. Soil Name: Canez Soil Texture: fine sandy loam Soil Depth: >60 in.</p>	<p>Management Practices: Previous Crop: sudangrass Planting Date: 17-May Harvest Dates: 2-Nov</p>	<p>Growing Conditions:</p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Furrow 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>71</td><td>1.14</td><td>6.0</td></tr> <tr><td>June</td><td>80</td><td>1.72</td><td></td></tr> <tr><td>July</td><td>81</td><td>3.22</td><td></td></tr> <tr><td>August</td><td>77</td><td>5.10</td><td></td></tr> <tr><td>September</td><td>66</td><td>1.42</td><td></td></tr> <tr><td>October</td><td>59</td><td>1.08</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>		Average Temp. °F	Precip. in.	Furrow Irrigation in.	January				February				March				April				May	71	1.14	6.0	June	80	1.72		July	81	3.22		August	77	5.10		September	66	1.42		October	59	1.08		November				December			
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Table 22B. New Mexico 2006 Dryland Grain Sorghum Performance Test - Agric. Science Center at Tucumcari

Results

Brand/Company Name	Hybrid/Variety Name	Grain Yield bu/a	Grain Yield lb/a	Moisture	Test Weight lb/bu	Heading Date	Head Fill %
				at Harvest %			
NC+ Hybrids	7C22	43.3	2423	10.4	54.3	22-Jul	70.0
NC+ Hybrids	5B89	35.1	1966	9.9	52.7	14-Jul	51.7
NC+ Hybrids	7B51	33.0	1849	9.5	54.6	23-Jul	75.0
NC+ Hybrids	6B50	29.0	1625	10.5	49.9	22-Jul	42.5
	Trial Mean	33.8	1895	10.0	52.5	20-Jul	58.8
	LSD	ns	ns	ns	ns	5	ns
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05
	CV	53.1	53.1	6.7	3.9	1.4	38.9
	F Test	0.6118	0.6118	0.3183	0.3700	0.0240	0.2769

Appendix A

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

New Mexico 2006 Grain Corn Hybrid Performance Test

Company/Brand Name	Hybrid/Variety Name	Relative Maturity (days)
Eureka Seeds, Inc. P.O. Box 1866 Woodland, CA 95776 (530) 661-6995 Craig Sharp	Early Season:	
	7539RR	116
	X6033RR	116
	Full Season:	
	X5087RR	118
	X6033RR	116
	7539RR	116
Garst Seed Company 403 W. Illinois Greensburg, KS 67054 (620) 723-2454 Jeff Schaefer	Early Season:	
	7663YG1/RR	109
	8688 GT	104
	8745YG1/RR	101
	Full Season:	
	8247YG1	117
	8377YG1/RR	115
	8534YG1/GT	108
Grand Valley Hybrids 840 23 Road Grand Junction, CO 81505 (970) 243-3115 Mark Harris	Full Season:	
	23P95	115
	X6H25	113
	25P00	117
	X7RP12	118
	14B75	118
Monsanto 4312 Carol Ave. Cortland, IL 60112 (815) 754-4809 Diane Freeman	Early Season:	
	Dekalb DKC 48-53 (RR2/YGCB)	98
	Dekalb DKC 51-39 (RR2/YGPL)	101
	Dekalb DKC 52-40 (RR2/YGPL)	102
	Dekalb DKC 55-82 (RR2)	105
	Dekalb DKC 58-19 (RR2)	108
	Full Season:	
	Dekalb DKC 66-23 (RR2/YGCB)	116
Dekalb DKC 64-81 (YGCB)	114	
	Asgrow RX752 RR/YG	112
NC+ Hybrids 3820 N. 56th St. Lincoln, NE 68504 (620) 694-7400 Kris Young	Early Season:	
	NC+ 3801R	107
	NC+ 1773RB	97
	NC+ 2163RB	100
	Nc+ 1993RB	100
	Full Season:	
	NC+ 6361RB	116
	NC+ 6125RBD	116
NC+ 4947RB	111	
	NC+ 5433RB	114

New Mexico 2006 Grain Corn Hybrid Performance Test (continued)

Company/Brand Name	Hybrid/Variety Name	Relative Maturity (days)
Pioneer Hi-Bred International, Inc. 390 Union Blvd., Suite 500A Lakewood, CO 80228 (303) 716-3960 Brad Lance	Early Season:	
	36K69 (HX1/LL/RR2)	103
	36W67 (HX1/LL)	103
	38H65 (HX1/LL/RR2)	99
	37D26 (HX1/LL/RR2)	98
	Full Season:	
	34A16 (HX1/LL)	110
	35A31 (HX1/LL)	105
	35F38	104
	UAP Southwest 101 East Corporate Drive, Suite 180 Lewisville, TX 75067 (469) 261-8340 John Griffin	Early Season:
Dyna-Gro 57P69		112
Dyna-Gro 55P86		104
Dyna-Gro 55P24		102
Dyna-Gro 55P41		101
Full Season:		
Dyna-Gro 58P59		116
Dyna-Gro CXO 5516		116
Dyna-Gro CXO 5917		116
Dyna-Gro 57P12		116
Dyna-Gro 57K39		115
Dyna-Gro CXO 6715		116
Dyna-Gro CXO 5819		116
Dyna-Gro 58K22		118
Dyna-Gro 58P60		118
Dyna-Gro CXO 6319		119
Dyna-Gro 58K02	118	
Dyna-Gro 58K40	118	

New Mexico 2006 Forage Corn Hybrid Performance Test

Company/Brand Name	Hybrid/Variety Name	Relative Maturity (days)
BASF Plant Sciences	BPS 299582	105
4033 Kensington Place	BPS 554709	106
Owensboro, KY 42301	BPS 5546	106
(270) 683-1975	BPS 827278	107
Tom Hayden	BPS 827121	108
	BPS 554729	109
	BPS 806148	109
	BPS 780943	110
	BPS 827268	111
	BPS 554730	112
	BPS 866221	112
	BPS 864973	112
	BPS 832707	113
	BPS 780937	113
	BPS 771326	113
	BPS 866222	114
Eureka Seeds, Inc.	X6033RR YGCB	116
P.O. Box 1866	X5115RR YGCB	118
Woodland, CA 95776	7634RR	118
(530) 661-6995	7625RR YGCB	120
Craig Sharp	7679RR	118
Garst Seed Company	8247YG1	117
403 W. Illinois		
Greensburg, KS 67054		
(620) 723-2454		
Jeff Schaefer		
Golden Acres genetics	GA 2995 RR	120
P.O. Box 579	GA 2993 RRB	120
Buchanan Dam, TX 78609	GA 2841 RRB	117
(512) 793-5205		
Grand Valley Hybrids	26B50	122
840 23 Road	X7RP12	118
Grand Junction, CO 81505	26B57	122
(970) 243-3115	14B75	118
Mark Harris	X7B28	119
Monsanto	Dekalb DKC 69-71 (RR2/YGCB)	119
4312 Carol Ave.	Dekalb DKC 66-80 (RR2)	116
Cortland, IL 60112	Dekalb DKC 66-23 (RR2/YGCB)	116
(815) 754-4809		
Diane Freeman		

New Mexico 2006 Forage Corn Hybrid Performance Test (continued)

Company/Brand Name	Hybrid/Variety Name	Relative Maturity (days)
NC+ Hybrids	NC+ 6125RBD	116
3820 N. 56th St.	NC+ 6361RB	116
Lincoln, NE 68504	NC+ 7373RB	120
(620) 694-7400	NC+ 5433RB	114
Kris Young	NC+ 7402R	120
Triumph Seed Co., Inc.	1416 Bt	114
P.O. Box 1050	1866 Bt	118
Ralls, TX 79357		
(806)530-4789		
Ben Benton		
UAP Southwest	58K40	119
101 East Corporate Drive, Suite 180	58K56	119
Lewisville, TX 75067	CXO 6319	119
(469) 261-8340	58K22	118
John Griffin	CXO 5917	116
	CXO 6717	118
	58K02	118
	58P60	118
	CXO 5516	116
	CXO 5819	116
	58P59	116
	57P12	116
	55P41	101
	56P24	108
	55P86	104
	57P69	

New Mexico 2006 Grain Sorghum Hybrid Performance Test

Company/Brand Name	Hybrid/Variety Name	Maturity Group*
Garrison & Townsend, Inc.	Full Irrigation:	
P.O. Box 2420	23194	
Hereford, TX 79045	23012	
(806) 364-0560	99396	
Bill Townsend	25128	
NC+ Hybrids	Full Irrigation:	
3820 N. 56th St.	NC+ 8R18	ML
Lincoln, NE 68504	NC+ 7R83	M
(620) 694-7400	NC+ 7B51	M
Kris Young	NC+ 6B50	ME
	Limited Irrigation:	
	NC+ 6B50	ME
	NC+ 7C22	M
	NC+ 7B51	M
	Dryland:	
	NC+ 7C22	M
	NC+ 5B89	E
Richardson Seed, Ltd.	Full Irrigation:	
P.O. Box 60	RS225	M
Vega, TX 79092	Sprint II	ME
(806) 267-2379	Sprint W	ME
Chuck Cielencki		
UAP Southwest	Full Irrigation:	
101 East Corporate Drive, Suite 180	740 C	ME
Lewisville, TX 75067	X1755	M
(469) 261-8340	X1743	M
John Griffin	GXO 6428	M
	GXO 6170	ML
	Limited Irrigation:	
	740 C	ME
	732 B	E
	X1743	M
	X1755	M

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

New Mexico 2006 Forage Sorghum Hybrid Performance Test

Company/Brand Name	Hybrid/Variety Name	Maturity Group*	Brown Midrib
Garrison & Townsend, Inc.	23402	ML	Y
P.O. Box 2420	991005	ME	Y
Hereford, TX 79045	23419	M	Y
(806) 364-0560	24213	ML	Y
Bill Townsend	991021	M	Y
NC+ Hybrids	Nutri-Cane II	M	N
3820 N. 56th St.	Nutri-Choice II	ML	N
Lincoln, NE 68504			
(620) 694-7400			
Kris Young			
Richardson Seed, Ltd.	Dairy Master BMR	ML	Y
P.O. Box 60	Bundle King BMR	L	Y
Vega, TX 79092	Silo 700 D	ML	N
(806) 267-2379			
Chuck Cielencki			
Scott Seed Co.	BMR Gold I	M	Y
Box 1732	SS Silage	M	N
Hereford, TX 79045			
(806) 364-3484			
Coby Kriegshauser			
Seed Resource	BMR 106	M	Y
P.O. Box 326	FS 515 HQ	ML	N
Tulia, TX 79088			
(806) 995-3882			
Chick Childress			
Sharp Brothers Seed Co.	Canex BMR 208		Y
104 E. 4th St.	Canex II		N
Greeley, CO 80631			
1-800-421-4234			
Sorghum Partners, Inc.	NK 300		N
403 S. Monroe	HiKane II		N
P.O. Box 189			
New Deal, TX 79350			
David Thomas			
Triumph Seed Co., Inc.	Super Sile 30	ML	N
P.O. Box 1050			
Ralls, TX 79357			
1-800-530-4789			
Ben Benton			

New Mexico 2006 Forage Sorghum Hybrid Performance Test (continued)

Company/Brand Name	Hybrid/Variety Name	Maturity Group*	Brown Midrib
UAP Southwest	Dyna-Gro 710 F	M	N
101 East Corporate Drive, Suite 180	Dyna-Gro 727 F ST	M	Y
Lewisville, TX 75067	Dyna-Gro 727 F	M	Y
(469) 261-8340			
John Griffin			
Walter Moss Seed Co., Ltd.	Millennium BMR		Y
P.O. Box 21114			
Waco, TX 76702			
(254) 840-4774			
Warner Seeds, Inc.	Sweet Bee Sterile II		N
P.O. Box 1877			
Hereford, TX 79045			
(806) 364-4470			
Steve Kerns			

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New Mexico 2006 Sorghum X Sudangrass/ Millet Hybrid Performance Test

Company/Brand Name	Hybrid/Variety Name	Maturity Group*	Brown Midrib
Ricahrdson Seed 3095 Co. Rd 26 Vega, TX 79092 (806)267-2523 Vince Barkley	Sweeter N Honey II	L	N
	Sweeter N Honey BMR	M	Y
Scott Seed Co. Box 1732 Hereford, TX 79045 (806) 364-3484 Coby Kriegshauser	BMR Gold III	PS	Y
	Premium Stock LS	PS	N
	BMR Gold II	M	Y
Seed Resource P.O. Box 326 Tulia, TX 79088 (806) 995-3882 Chick Childress	SS 200 BMR	M	Y
	SS 204 BMR	M	Y
	SS 206 BMR	M	Y
	MilHy 300	M	N
	MilHy 400	M	N
	MilHy 500	M	N
UAP Southwest 101 East Corporate Drive, Suite 180 Lewisville, TX 75067 (469) 261-8340 John Griffin	Danny Boy BMR	PS	Y
	Dynagrazer BMR	M	Y
	Dynagrazer	M	N

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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_L (Net Energy for Lactation): NE_L 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 RVF to be considered 'dairy quality' hay.

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.