



New Mexico

2005 Corn
and Sorghum
Performance Tests



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

**New Mexico
2005
Corn and Sorghum Performance Tests**

New Mexico State University
Agricultural Science Centers
at
Artesia, Clovis, Farmington, Los Lunas and Tatum
and
Department of Extension Plant Sciences

Agricultural Experiment Station/Cooperative Extension Service
College of Agriculture and Home Economics
New Mexico State University

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Thanks to:

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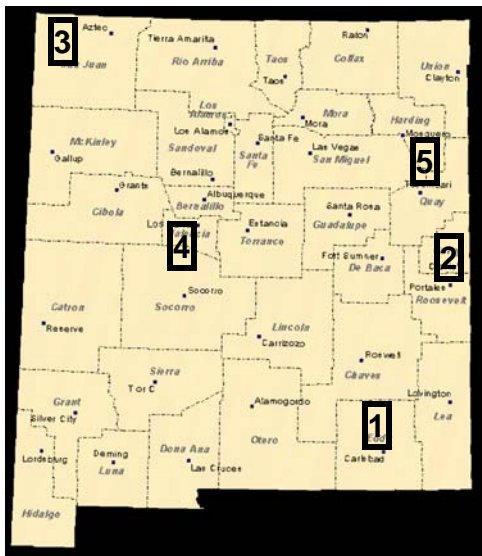
New Mexico 2005 Corn and Sorghum Performance Tests

INTRODUCTION

Performance tests for grain corn, forage corn, forage sorghum and sorghum x sudangrass were conducted at the Agricultural Science Centers at Artesia, Clovis, Farmington, Los Lunas and Tucumcari, New Mexico in 2005 (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.

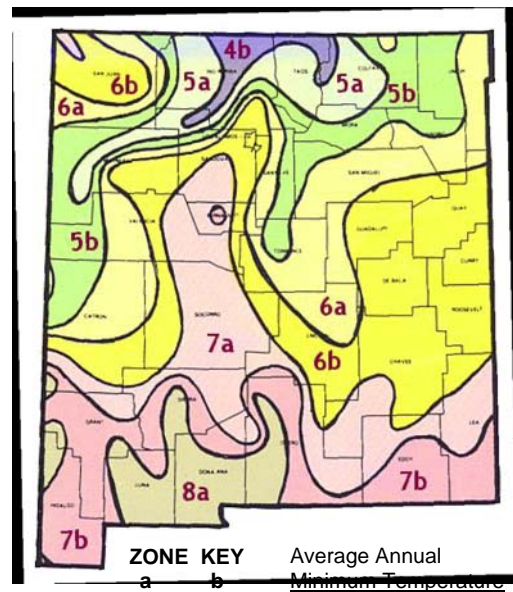
The New Mexico corn and sorghum performance testing program is part of an ongoing program to provide farmers, Extension workers and seed industry personnel with reliable, unbiased, information that will allow a valid comparison of corn and sorghum varieties/hybrids at various locations throughout the 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.



- | | | |
|---|-------------|--------------------------|
| 4 | Dark Purple | -25 to 20F |
| 5 | Light Green | -20 to -15 / -15 to -10F |
| 6 | Yellow | -10 to -5 / -5 to 0F |
| 7 | Pink | 0 to -5 / -5 to 10F |
| 8 | Olive Green | 10 to 15F |

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	0.36	0.50	0.38	0.37
February	0.43	0.39	0.59	0.44	0.47
March	0.45	0.70	0.74	0.54	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	1.21	1.64	0.91	1.07	1.29
November	0.51	0.57	0.84	0.51	0.70
December	0.48	0.49	0.45	0.50	0.56
Total	11.93	17.00	8.63	9.13	16.08
Average Temperature (°F)					
January	40.2	38.0	30.9	34.6	38.3
February	44.9	41.6	36.3	40.1	42.0
March	51.5	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	53.7	55.7	59.5
November	48.8	46.3	40.4	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 2005 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 2006 corn and sorghum performance tests will be mailed to seed companies in January 2006. Additional 2006 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 (corn) 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.

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 spectrophotometry (NIRS). For these trials, milk

production estimates were calculated using the University of Wisconsin Milk2000 spreadsheet program.

RESULTS

Results for the 2005 corn and sorghum hybrid/variety tests are shown in Tables 2-16. 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 25 entries. Mean grain yield was 257 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 16 entries. Mean grain yield was 186 bu/ac and yields were different. (Table 3A-B). Farmington's full-season grain corn test consisted of 13 entries. Mean grain yield was 271 bu/ac and yield differences among hybrids were not significant (Table 4A-B).

The grain corn test at Los Lunas contained 9 hybrids, which produced a mean grain yield of 200 bu/ac (Table 5A-B). There were no 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 10 entries. Mean dry forage yield was 8.02 ton/ac and yield and forage quality differences were observed (Table 6A-C). Artesia's full season forage corn test consisted of 25 entries. Dry forage averaged 8.40 ton/ac for the trial and yield and forage quality differences occurred (Table 7A-C).

There were 48 entries in the Clovis forage corn test. Mean dry forage yield was 11.85 ton/ac (Table 8A-B). Hybrids differed in nutrient composition and yield.

Thirty-one hybrids were evaluated in the Farmington forage corn test. Dry forage yield averaged 11.00 ton/ac and yields were similar for all 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 8.61 ton/ac and dry forage yields differed 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 7 entries in the forage sorghum test at Artesia. Mean dry forage yield was 7.30 ton/ac (Table 11A-B). Forage yields were different among the entries.

At Clovis, there were 8 entries in the forage sorghum test. Mean dry forage yield was 9.80 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 8.94 ton/ac (Table 13A-B). Yields were different between the two entries for both dry and green forage.

Sorghum x Sudangrass and Sorghum x Sudangrass/Millet

Entries for sorghum x sudangrass tests were accepted by the Agricultural Science Centers at Artesia and Clovis. At Clovis, sorghum x 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 Artesia and three times at Clovis.

There were three entries in the sorghum x sudangrass test at Artesia. Plots were harvested on August 8 and October 3 and mean dry forage yields were 6.58 and 3.98 ton/ac for first and second harvests, respectively (Table 14A-C). Forage yield differences were not significant for either harvest.

The sorghum x sudangrass/millet test at Clovis contained 13 entries, 8 sorghum x sudangrasses, 4 pearl millets, and 1 German foxtail millet. First harvests were conducted on July 18 and July 28 for sorghum x sudangrass and millet plots, respectively and mean dry forage was 1.90 ton/ac (Table 15A-C). Second and third cuttings for all plots occurred on August 18 and September 15, respectively. Mean dry forage yields were 1.78 and 1.57 ton/ac for the second and third cuttings, respectively. Differences were observed for some measures of nutritive quality.

Forage Sorghum and Sorghum x Sudangrass

A combined dryland forage sorghum-sorghum x sudangrass test, containing 7 entries, was established at the Agricultural Science Center at Tucumcari. The test was planted on May 20 and harvested on October 24. Dry forage yields averaged 2.61 ton/ac for the one cutting that was obtained (Table 16A-B). Differences occurred for yields and most nutritive value parameters.

Table 2A. New Mexico 2005 Grain Corn Performance Test - Agricultural Science Center at Clovis

Investigators: R.E. Kirksey, M.A. Marsalis, C.A. Werner, 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: 29-Apr Harvest Date: 4-Oct 5-Oct Production Inputs <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>47 lb/a</td> <td>2-May</td> </tr> <tr> <td>Nitrogen</td> <td>50 lb/a</td> <td>20-May</td> </tr> <tr> <td>Nitrogen</td> <td>118 lb/a</td> <td>1-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>110 lb/a</td> <td>11-Jul</td> </tr> <tr> <td>P₂O₅</td> <td>60 lb/a</td> <td>20-May</td> </tr> <tr> <td>S</td> <td>10 lb/a</td> <td>20-May</td> </tr> <tr> <td>Zn</td> <td>1.5 lb/a</td> <td>20-May</td> </tr> </tbody> </table> Herbicides: Bicep Lite II Mag 3 pt/a 2-May Insecticides: Dimethoate 4E 1 pt/a 18-Aug Oberon 8 oz/ac 18-Aug Tracer 3 oz/ac 18-Aug		Rate	Date	Fertilizer:			Nitrogen	47 lb/a	2-May	Nitrogen	50 lb/a	20-May	Nitrogen	118 lb/a	1-Jul	Nitrogen	110 lb/a	11-Jul	P ₂ O ₅	60 lb/a	20-May	S	10 lb/a	20-May	Zn	1.5 lb/a	20-May	<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>55.1</td><td>0.8</td><td></td></tr> <tr><td>May</td><td>63.9</td><td>1.9</td><td>3.5</td></tr> <tr><td>June</td><td>75.3</td><td>0.5</td><td>6.0</td></tr> <tr><td>July</td><td>77.3</td><td>1.3</td><td>12.6</td></tr> <tr><td>August</td><td>86.6</td><td>5.0</td><td>5.7</td></tr> <tr><td>September</td><td>71.9</td><td>1.9</td><td>2.8</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 colspan="2">Seasonal Precipitation:</td><td>11.3 in.</td><td></td></tr> <tr><td colspan="2">Total Irrigation:</td><td>30.5 in.</td><td></td></tr> <tr><td colspan="2">Date of Last Spring Frost:</td><td>12-Apr</td><td></td></tr> <tr><td colspan="2">Date of First Fall Frost:</td><td>14-Nov</td><td></td></tr> <tr><td colspan="2">Frost Free Period:</td><td>216 days</td><td></td></tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March				April	55.1	0.8		May	63.9	1.9	3.5	June	75.3	0.5	6.0	July	77.3	1.3	12.6	August	86.6	5.0	5.7	September	71.9	1.9	2.8	October				November				December				Seasonal Precipitation:		11.3 in.		Total Irrigation:		30.5 in.		Date of Last Spring Frost:		12-Apr		Date of First Fall Frost:		14-Nov		Frost Free Period:		216 days	
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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 2B. New Mexico 2005 Grain Corn Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Grain	Moisture	Test	Silk Date	Lodging
		Yield at Harvest	%	Weight		
		bu/a	%	lb/bu		%
UAP Southwest	Dyna-Gro DG 58P59	300.2	19.5	54.6	15-Jul	0.0
Monsanto	Dekalb DKC69-71 (RR2/YGCB)	293.8	21.5	57.4	17-Jul	0.0
Garst Seed Co.	8377 YG1/RR	282.1	19.4	56.6	12-Jul	0.0
Warner Seeds, Inc.	W4705B	279.6	20.1	54.7	14-Jul	0.0
UAP Southwest	Dyna-Gro CX03518	271.9	21.2	57.4	16-Jul	0.0
UAP Southwest	Dyna-Gro DG 58K22	271.2	19.0	57.1	17-Jul	0.7
UAP Southwest	Dyna-Gro CX05618	269.8	21.2	56.7	17-Jul	1.1
Grand Valley Hybrids	25P00	263.6	19.4	54.9	13-Jul	0.0
Grand Valley Hybrids	14B95	262.8	19.1	55.3	15-Jul	0.0
Grand Valley Hybrids	23P95	262.1	18.2	57.4	11-Jul	0.0
UAP Southwest	Dyna-Gro DG 58K40	261.0	20.9	56.7	17-Jul	0.4
UAP Southwest	Dyna-Gro CX04319	260.5	20.6	54.4	16-Jul	1.6
Warner Seeds, Inc.	WXC1201	260.3	20.0	57.5	12-Jul	0.0
Eureka Seeds, Inc.	Seed Tec 7539 RR	255.9	18.2	56.4	12-Jul	0.0
UAP Southwest	Dyna-Gro CX04219	255.0	20.8	55.3	15-Jul	0.0
Warner Seeds, Inc.	W4676B	252.2	19.4	55.0	16-Jul	0.0
UAP Southwest	Dyna-Gro CX04520	252.0	21.4	56.4	16-Jul	0.0
Grand Valley Hybrids	14B69	251.3	19.8	57.4	12-Jul	0.0
Warner Seeds, Inc.	W4602B	248.4	18.8	56.7	11-Jul	0.4
Monsanto	Dekalb DKC63-62 (RR2)	246.8	17.8	58.9	12-Jul	1.3

Table 2B (continued). New Mexico 2005 Grain Corn Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Grain	Moisture	Test	Silk Date	Lodging
		Yield at Harvest	%	Weight		
		bu/a	%	lb/bu		%
Warner Seeds, Inc.	W4600B	237.3	17.7	57.6	12-Jul	0.0
Monsanto	Asgrow RX752RR2/YG	232.3	18.2	57.5	11-Jul	0.4
UAP Southwest	Dyna-Gro CX03318	232.1	21.2	56.8	17-Jul	0.4
Grand Valley Hybrids	13B53	217.8	17.3	59.0	13-Jul	0.0
Eureka Seeds, Inc.	Seed Tec X3054	199.5	19.5	55.4	13-Jul	0.0
	Trial Mean	256.8	19.6	56.5	12-Jul	0.3
	LSD	26.7	0.8	1.0	0.9	0.8
	LSD P >	0.05	0.05	0.05	0.05	0.05
	CV	7.36	3.05	1.26	0.32	218.25
	F Test	<0.0001	<0.0001	<0.0001	<0.0001	0.0003

Table 3A. New Mexico 2005 Early Season Grain Corn Performance Test - Agricultural Science Center at Farmington

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

Test Description

Location:	Management Practices:	Growing Conditions:
County/Area: San Juan	Previous Crop: fallow	
Longitude: -108.31	Planting Date: 11-May	
Latitude: 36.68	Harvest Date: 29-Nov	
Elevation: 5640 ft.		
Soil Name: Wall		
Soil Texture: sandy loam		
Soil Depth: > 75 in.		
	<u>Production Inputs</u>	
	Rate Date	
	Fertilizer:	
	Nitrogen 10 lb/a 16-Mar	
	Nitrogen 35 lb/a 6-Apr	
	Nitrogen 30 lb/a 18-Jun	
	Nitrogen 33 lb/a 26-Jun	
	Nitrogen 30 lb/a 1-Jul	
	Nitrogen 23 lb/a 13-Jul	
	Nitrogen 23 lb/a 21-Jul	
	Nitrogen 28 lb/a 27-Jul	
	Nitrogen 28 lb/a 3-Aug	
	P ₂ O ₅ 52 lb/a 16-Mar	
	K ₂ O 60 lb/a 16-Mar	
	Herbicides:	
	Bicep Lite II Mag 2.5 pt/a 17-May	
	Lo Vol 6 2 oz/a 17-May	
	Clarity 2 oz/a 17-May	
	Insecticides:	
	None	
		Average
		Temp. Precip. Irrigation
		°F in. in.
		January
		February
		March
		April
		May 62.5 0.55 1.8
		June 68.9 0.11 4.2
		July 79.2 0.52 8.7
		August 73.2 1.84 5.7
		September 68.4 0.48 2.7
		October
		November
		December
		Seasonal Precipitation: 3.50 in.
		Total Irrigation: 26.6 in.
		Date of Last Spring Freeze: 22-Apr
		Date of First Fall Freeze: 31-Oct
		Frost Free Period: 192 days
Test Design:		
Replications: 4		
Plot Length: 20 ft.		
Rows per Plot: 4		
Row Spacing: 34 in.		
Seeding Rate: 35000 seed/a		

Table 3B. New Mexico 2005 Early Season Grain Corn Performance Test - Agricultural Science Center at Farmington

Results

Brand/Company Name	Hybrid/Variety Name	Grain	Moisture	Test		Lodging	Ear	Plant	Population
		Yield	at Harvest	Weight	Silk Date		Height	Height	
		bu/a	%	lb/bu		%	in	in	plants/a
Monsanto	Asgrow RX674RR2	239.3	12.9	59.2	29-Jul	0	35	91	32866
Garst Seed Co.	8461	233.7	12.8	58.9	26-Jul	0	38	99	26139
Monsanto	Dekalb DKC 55-82	218.5	12.0	60.4	28-Jul	0	40	96	27677
UAP Southwest	Dyna-Gro DG 56P24	209.0	12.5	58.4	27-Jul	0	44	99	28253
Monsanto	Dekalb DKC 58-80	196.8	12.4	59.1	26-Jul	0	40	90	30368
Wilbur-Ellis Co.	NC+ 2163 RB	195.3	12.4	58.9	28-Jul	0	32	86	24794
Monsanto	Dekalb DKC 52-40	190.6	11.9	60.1	26-Jul	0	38	84	27677
Pioneer Hi-Bred International, Inc.	Pioneer Brand 36K67	178.7	12.5	59.4	27-Jul	0	36	89	22872
UAP Southwest	Dyna-Gro DG 55P41	178.7	12.4	58.3	26-Jul	0	35	89	29599
Pioneer Hi-Bred International, Inc.	Pioneer Brand 35Y62	178.6	12.8	59.8	28-Jul	0	40	93	29599
Wilbur-Ellis Co.	Harvest Bounty HB 9461	178.2	11.6	59.2	23-Jul	0	38	89	27485
Pioneer Hi-Bred International, Inc.	Pioneer Brand 35A30	172.8	12.5	60.0	29-Jul	0	38	99	27869
Wilbur-Ellis Co.	NC+ 3534B	159.9	12.1	58.9	26-Jul	0	39	90	21526
Garst Seed Co.	8881RR	159.2	11.7	59.8	23-Jul	0	39	92	33058
Wilbur-Ellis Co.	Harvest Bounty HB 9531	150.3	12.3	60.3	27-Jul	0	36	85	24217
UAP Southwest	Dyna-Gro DG 56P80	137.6	12.5	59.2	25-Jul	0	35	83	25947
	Trial Mean	186.1	12.3	59.4	26-Jul	0	38	91	27497
	LSD	54.2	0.5	0.7	1.7		5	9	5203
	LSD P >	0.05	0.05	0.05	0.05		0.05	0.05	0.05
	CV	20.46	2.85	0.78	0.56		9.99	6.70	13.29
	F Test	0.0174	<0.0001	<0.0001	<0.0001		0.0210	0.0024	0.0015

Table 4A. New Mexico 2005 Full Season Grain Corn Performance Test - Agricultural Science Center at Farmington

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

Test Description

Location:	Management Practices:	Growing Conditions:
County/Area: San Juan	Previous Crop: fallow	
Longitude: -108.31	Planting Date: 11-May	
Latitude: 36.68	Harvest Date: 12-Dec	
Elevation: 5640 ft.		
Soil Name: Wall		
Soil Texture: sandy loam		
Soil Depth: > 75 in.		
	Production Inputs	
	<u>Rate</u> <u>Date</u>	
	Fertilizer:	
	Nitrogen 10 lb/a 16-Mar	
	Nitrogen 35 lb/a 6-Apr	
	Nitrogen 30 lb/a 18-Jun	
	Nitrogen 33 lb/a 26-Jun	
	Nitrogen 30 lb/a 1-Jul	
	Nitrogen 23 lb/a 13-Jul	
	Nitrogen 23 lb/a 21-Jul	
	Nitrogen 28 lb/a 27-Jul	
	Nitrogen 28 lb/a 3-Aug	
	P2O5 52 lb/a 16-Mar	
	K2O 60 lb/a 16-Mar	
	Herbicides:	
	Bicep Lite II Mag 2.5 pt/a 17-May	
	Lo Vol 6 2 oz/a 17-May	
	Clarity 2 oz/a 17-May	
	Insecticides:	
	None	
		<u>Average</u>
		Temp. Precip. Irrigation
		°F in. in.
		January
		February
		March
		April
		May 62.5 0.55 1.8
		June 68.9 0.11 4.2
		July 79.2 0.52 8.7
		August 73.2 1.84 5.7
		September 68.4 0.48 2.7
		October
		November
		December
		Seasonal Precipitation: 3.5 in.
		Total Irrigation: 26.6 in.
Test Design:		
Replications: 4		
Plot Length: 20 ft.		
Rows per Plot: 4		
Row Spacing: 34 in.		
Seeding Rate: 35000 seed/a		
		Date of Last Spring Freeze: 22-Apr
		Date of First Fall Freeze: 31-Oct
		Frost Free Period: 192 days

Table 4B. New Mexico 2005 Full Season Grain Corn Performance Test - Agricultural Science Center at Farmington

Results

Brand/Company Name	Hybrid/Variety Name	Grain	Moisture	Test	Silk Date	Lodging	Ear	Plant	Population
		Yield	at Harvest	Weight			Height	Height	
		bu/a	%	lb/bu			in	in	plants/a
UAP Southwest	Dyna-Gro CX05516	331.4	14.1	60.7	30-Jul	0	44	107	31550
UAP Southwest	Dyna-Gro DG 58P59	318.4	14.5	57.8	29-Jul	0	43	101	28856
Pioneer Hi-Bred International, Inc.	Pioneer Brand 34A15	313.5	14.6	61.4	28-Jul	0	35	95	33473
Monsanto	Dekalb DKC 63-62 (RR2)	295.2	14.3	58.6	30-Jul	0	35	89	31165
Garst Seed Co.	8377YG1/RR	290.0	14.1	58.9	29-Jul	0	42	99	33089
Pioneer Hi-Bred International, Inc.	Pioneer Brand 34B99	278.1	12.7	60.5	28-Jul	0	34	95	33858
UAP Southwest	Dyna-Gro DG 57P12	271.1	14.5	58.1	30-Jul	0	41	101	33089
Eureka Seed, Inc.	Seed Tec 7539RR	263.4	13.9	58.9	28-Jul	0	41	96	31165
Monsanto	Dekalb DKC 60-19 (RR2/YGCB)	244.8	13.8	60.0	27-Jul	0	35	83	30780
UAP Southwest	Dyna-Gro CX05019	233.5	14.2	60.0	30-Jul	0	41	95	26933
Eureka Seed, Inc.	Seed Tec X3054	232.6	14.2	58.6	31-Jul	0	34	95	26548
Pioneer Hi-Bred International, Inc.	Pioneer Brand 33N56	226.9	12.5	62.1	31-Jul	0	35	89	32319
UAP Southwest	Dyna-Gro CX05014	218.6	14.2	60.3	29-Jul	0	39	97	32319
Trial Mean		270.6	14.0	59.7	29-Jul	0	38	95	31165
LSD		ns	1.2	1.0	ns		7	10	ns
LSD P >		0.05	0.05	0.05	0.05		0.05	0.05	0.05
CV		20.96	5.83	1.12	0.94		12.93	7.62	20.36
F Test		0.0932	0.0151	<0.0001	0.1876		0.0269	0.0108	0.8600

Table 5A. New Mexico 2005 Grain Corn Performance Test - Agricultural Science Center at Los Lunas

Investigators: L.M. English, L. Swanick, and D.A. McWilliams

Test Description

<p>Location: County/Area: Valencia Longitude: -106.75 Latitude: 34.77 Elevation: 4840 ft. Soil Name: Gila Soil Texture: coarse loam Soil Depth: 60 in.</p> <p>Test Design: Replications: 4 Plot Length: 10 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 30000 seed/a</p>	<p>Management Practices: Previous Crop: alfalfa Planting Date: 13-May Harvest Date: 13-Oct</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>91 lb/a</td> <td>28-Apr</td> </tr> <tr> <td>Nitrogen</td> <td>66 lb/a</td> <td>25-May</td> </tr> <tr> <td>Nitrogen</td> <td>92 lb/a</td> <td>14-Jun</td> </tr> <tr> <td>P₂O₅</td> <td>45 lb/a</td> <td>28-Apr</td> </tr> <tr> <td>K₂O</td> <td>45 lb/a</td> <td>28-Apr</td> </tr> </tbody> </table> <p>Herbicides: Bladex 1 qt/a 13-May Atrazine 1 qt/a 13-May</p> <p>Insecticides: None</p>		Rate	Date	Fertilizer:			Nitrogen	91 lb/a	28-Apr	Nitrogen	66 lb/a	25-May	Nitrogen	92 lb/a	14-Jun	P ₂ O ₅	45 lb/a	28-Apr	K ₂ O	45 lb/a	28-Apr	<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>40.3</td><td>1.4</td><td></td></tr> <tr><td>February</td><td>43.2</td><td>1.6</td><td></td></tr> <tr><td>March</td><td>46.6</td><td>0.8</td><td></td></tr> <tr><td>April</td><td>54.7</td><td>0.5</td><td></td></tr> <tr><td>May</td><td>65.3</td><td>0.0</td><td>6.0</td></tr> <tr><td>June</td><td>72.4</td><td>0.3</td><td>6.0</td></tr> <tr><td>July</td><td>79.2</td><td>0.3</td><td>9.0</td></tr> <tr><td>August</td><td>75.7</td><td>0.4</td><td>6.0</td></tr> <tr><td>September</td><td>70.8</td><td>1.7</td><td>3.0</td></tr> <tr><td>October</td><td>57.8</td><td>1.0</td><td></td></tr> <tr><td>November</td><td>43.3</td><td>0.9</td><td></td></tr> <tr><td>December</td><td>34.6</td><td>0.5</td><td></td></tr> </tbody> </table> <p>Seasonal Precipitation: 3.2 in. Total Irrigation: 30.0 in.</p> <p>Date of Last Spring Frost: 13-Apr Date of First Fall Frost: 30-Oct Frost Free Period: 199 days</p>		Average				Temp. °F	Precip. in.	Irrigation in.	January	40.3	1.4		February	43.2	1.6		March	46.6	0.8		April	54.7	0.5		May	65.3	0.0	6.0	June	72.4	0.3	6.0	July	79.2	0.3	9.0	August	75.7	0.4	6.0	September	70.8	1.7	3.0	October	57.8	1.0		November	43.3	0.9		December	34.6	0.5	
	Rate	Date																																																																													
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Table 5B. New Mexico 2005 Grain Corn Performance Test - Agricultural Science Center at Los Lunas

Results

Brand/Company Name	Hybrid/Variety Name	Grain	Moisture	Test	Silk Date	Lodging	Ear	Plant	Population
		Yield	at Harvest	Weight			Height	Height	
		bu/a	%	lb/bu			in	in	plant/a
Grand Valley Hybrids	25P00	228.4	15.3	56.0	18-Jul	1	47	107	28750
Grand Valley Hybrids	14B69	226.8	15.3	57.6	18-Jul	4	52	111	30056
Grand Valley Hybrids	13B53	203.9	14.6	59.6	18-Jul	0	49	106	26136
Grand Valley Hybrids	23P95	203.7	14.0	58.0	18-Jul	0	49	102	31363
Grand Valley Hybrids	14B95	197.5	15.6	55.6	19-Jul	7	55	109	25700
Eureka Seed, Inc.	Seed Tec X3054	195.0	14.9	55.6	19-Jul	37	45	104	29185
Monsanto	Dekalb DKC69-71 (RR2-YG-CB)	193.3	14.6	58.0	22-Jul	0	52	113	28314
Monsanto	Dekalb DKC63-62 (RR2)	187.5	14.3	56.0	18-Jul	16	48	100	29621
Eureka Seed, Inc.	Seed Tec 7539 RR	159.3	15.8	56.4	18-Jul	27	46	106	29621
Trial Mean		199.5	14.9	57.0	18-Jul	10.4	49	106	28750
LSD		ns	ns	1.8		13.9	5.2	ns	ns
LSD P >		0.05	0.05	0.05		0.05	0.05	0.05	0.05
CV		16.98	8.26	2.17		91.87	7.20	5.77	8.78
F Test		0.2094	0.4736	0.0010		<0.0001	0.0122	0.1008	0.0783

Table 6A. New Mexico 2005 Early Season 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 Planting Date: 21-Apr Harvest Date: 5-Aug</p> <p><u>Production Inputs</u></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>190 lb/ac</td> <td>13-Jun 8-Jul</td> </tr> <tr> <td>P₂O₅</td> <td>116 lb/ac</td> <td>21-Mar</td> </tr> </tbody> </table> <p>Herbicides: None</p> <p>Insecticides: None</p>		Rate	Date	Fertilizer:			Nitrogen	190 lb/ac	13-Jun 8-Jul	P ₂ O ₅	116 lb/ac	21-Mar	<p>Growing Conditions:</p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>44.7</td><td>0.6</td><td></td></tr> <tr><td>February</td><td>45.1</td><td>1.6</td><td></td></tr> <tr><td>March</td><td>50.7</td><td>0.7</td><td></td></tr> <tr><td>April</td><td>57.9</td><td>0.1</td><td>2.2</td></tr> <tr><td>May</td><td>67.6</td><td>1.7</td><td></td></tr> <tr><td>June</td><td>77.3</td><td>0.2</td><td>10.3</td></tr> <tr><td>July</td><td>79.9</td><td>0.1</td><td>11.5</td></tr> <tr><td>August</td><td>77.3</td><td>2.9</td><td></td></tr> <tr><td>September</td><td>74.2</td><td>0.1</td><td></td></tr> <tr><td>October</td><td>60.9</td><td></td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table> <p>Seasonal Precipitation: 8.0 in. Total Irrigation: 24.0 in.</p> <p>Date of Last Spring Frost: 12-Apr Date of First Fall Frost: 1-Nov Frost Free Period: 203 days</p>		Average Temp. °F	Precip. in.	Irrigation in.	January	44.7	0.6		February	45.1	1.6		March	50.7	0.7		April	57.9	0.1	2.2	May	67.6	1.7		June	77.3	0.2	10.3	July	79.9	0.1	11.5	August	77.3	2.9		September	74.2	0.1		October	60.9			November				December			
	Rate	Date																																																																
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October	60.9																																																																	
November																																																																		
December																																																																		
<p>Test Design:</p> <p>Replications: 4 Plot Length: 25 ft. Rows per Plot: 2 Row Spacing: 40 in. Seeding Rate: 36000 seeds/a</p>																																																																		

Table 6B. New Mexico 2005 Early Season Forage Corn Performance Test - Agricultural Science Center at Artesia

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	ADF	NDF	NDFD		Ash	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage	at Harvest				48hr	Starch			
		t/a	t/a	%	%	%	%	%	%	lb/t	lb/a	
BASF Plant Sciences	BPS X308	9.31	29.58	68.5	8.90	29.5	49.5	57.7	25.4	5.55	3238	30128
BASF Plant Sciences	BPS X336	8.83	30.73	71.3	9.50	26.4	45.0	58.4	30.1	6.20	3387	29904
BASF Plant Sciences	BPS X257	8.31	31.25	73.5	9.95	28.3	47.9	56.6	27.2	5.77	3239	26885
BASF Plant Sciences	BPS X266	8.17	29.30	72.1	10.04	27.7	47.2	55.3	28.0	6.31	3181	26009
BASF Plant Sciences	BPS X349	7.93	29.43	73.0	10.10	28.4	47.6	56.8	25.8	6.46	3219	25534
BASF Plant Sciences	BPS X248	7.91	28.72	72.4	10.32	27.4	47.2	55.9	26.7	5.93	3222	25511
Monsanto	Dekalb DKC63-62 (RR2)	7.79	27.91	72.0	10.11	27.0	46.4	58.3	26.3	6.24	3320	25863
BASF Plant Sciences	BPS X251	7.48	29.74	74.7	9.99	29.4	49.1	54.0	26.9	6.26	3054	22834
BASF Plant Sciences	BPS X263	7.27	28.78	74.8	10.01	28.7	48.8	54.1	25.8	5.92	3085	22411
BASF Plant Sciences	BPS X274	7.15	30.44	76.5	10.75	30.7	51.2	57.9	20.4	6.86	3098	22150
	Trial Mean	8.02	29.59	72.9	9.96	28.4	48.0	56.5	26.3	6.15	3204	25723
	LSD	0.86	ns	2.2	0.63	2.2	3.1	ns	3.5	0.52	159	2996
	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	7.36	6.17	2.09	4.36	5.25	4.48	3.90	9.30	5.84	3.43	8.03
	F Test	0.0004	0.3252	<0.0001	0.0005	0.0127	0.0244	0.0534	0.0021	0.0015	0.0046	<0.0001

Table 6C. New Mexico 2005 Early Season Forage Corn Performance Test - Agricultural Science Center at Artesia

Results

Brand/Company Name	Hybrid/Variety Name	TDN		N		Plant	Days to
		%	Mcal/lb	lb/A	plants/a	Height	Half Silk
						in	days
BASF Plant Sciences	BPS X308	67.1	0.69	265	37244	118	73
BASF Plant Sciences	BPS X336	69.1	0.71	268	30383	100	68
BASF Plant Sciences	BPS X257	67.3	0.69	265	33323	107	68
BASF Plant Sciences	BPS X266	66.6	0.69	263	36917	105	69
BASF Plant Sciences	BPS X349	67.0	0.69	256	38224	108	68
BASF Plant Sciences	BPS X248	67.1	0.69	261	35937	103	68
Monsanto	Dekalb DKC63-62 (RR2)	68.2	0.70	252	35284	105	72
BASF Plant Sciences	BPS X251	65.1	0.67	239	36917	107	69
BASF Plant Sciences	BPS X263	65.4	0.67	233	40184	108	70
BASF Plant Sciences	BPS X274	65.2	0.67	246	38877	105	70
	Trial Mean	66.8	0.69	255	36329	107	69
	LSD	2.0	0.02	ns	ns	4	1
	LSD P>	0.05	0.05	0.05	0.05	0.05	0.05
	CV	2.02	2.18	8.93	11.52	2.80	1.41
	F Test	0.0037	0.0037	0.4007	0.1088	<0.0001	<0.0001

Table 7A. New Mexico 2005 Full Season 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 Planting Date: 21-Apr Harvest Date: 10-Aug</p>	<p>Growing Conditions:</p>																																																																			
<p>Test Design:</p> <p>Replications: 4 Plot Length: 25 ft. Rows per Plot: 2 Row Spacing: 40 in. Seeding Rate: 36000 seeds/a</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>190 lb/ac</td> <td>13-Jun</td> </tr> <tr> <td></td> <td></td> <td>8-Jul</td> </tr> <tr> <td>P₂O₅</td> <td>116 lb/ac</td> <td>21-Mar</td> </tr> </tbody> </table> <p>Herbicides: None</p> <p>Insecticides: None</p>		Rate	Date	Fertilizer:			Nitrogen	190 lb/ac	13-Jun			8-Jul	P ₂ O ₅	116 lb/ac	21-Mar	<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>44.7</td><td>0.6</td><td></td></tr> <tr><td>February</td><td>45.1</td><td>1.6</td><td></td></tr> <tr><td>March</td><td>50.7</td><td>0.7</td><td></td></tr> <tr><td>April</td><td>57.9</td><td>0.1</td><td>2.2</td></tr> <tr><td>May</td><td>67.6</td><td>1.7</td><td></td></tr> <tr><td>June</td><td>77.3</td><td>0.2</td><td>10.3</td></tr> <tr><td>July</td><td>79.9</td><td>0.1</td><td>11.5</td></tr> <tr><td>August</td><td>77.3</td><td>2.9</td><td></td></tr> <tr><td>September</td><td>74.2</td><td>0.1</td><td></td></tr> <tr><td>October</td><td>60.9</td><td></td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January	44.7	0.6		February	45.1	1.6		March	50.7	0.7		April	57.9	0.1	2.2	May	67.6	1.7		June	77.3	0.2	10.3	July	79.9	0.1	11.5	August	77.3	2.9		September	74.2	0.1		October	60.9			November				December			
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Table 7B. New Mexico 2005 Full Season Forage Corn Performance Test - Agricultural Science Center at Artesia

Results

Brand/Company Name	Hybrid/Variety Name	Moisture		at Harvest	CP	ADF	NDFD			Ash	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage				NDF	48hr	Starch			
		t/a	t/a	%	%	%	%	%	%	lb/t	lb/a	
Warner Seeds, Inc.	WXC1201	9.39	30.05	68.8	9.42	28.53	47.15	53.37	29.96	6.81	3059	28773
UAP Southwest	Dyna Gro CX03518	9.21	32.74	72.0	9.88	30.20	50.41	54.47	25.45	7.13	2968	27519
Grand Valley Hybrids	26B57	9.18	31.82	71.0	9.62	29.37	48.54	54.88	27.02	6.96	3067	28182
Monsanto	Dekalb DKC69-71 (RR2/YGCB)	9.14	31.64	71.1	9.49	30.64	50.01	52.22	27.26	7.28	2867	26235
Warner Seeds, Inc.	W4675BR	9.14	32.94	72.3	9.96	28.05	46.12	55.35	29.40	6.68	3183	29078
UAP Southwest	Dyna Gro DG 58P59	8.98	33.29	73.0	9.46	28.35	45.93	56.31	29.46	6.65	3220	29030
Grand Valley Hybrids	25B93	8.98	32.29	72.2	10.06	29.56	48.31	54.77	27.00	7.12	3034	27166
Warner Seeds, Inc.	W4602B	8.89	30.42	70.8	10.07	25.70	43.65	54.68	32.09	6.61	3256	28908
UAP Southwest	Dyna Gro CX04520	8.68	28.92	69.9	10.03	27.01	45.56	54.48	29.63	7.16	3135	27170
UAP Southwest	Dyna Gro DG 58K22	8.43	31.47	73.2	9.57	31.41	50.87	57.21	23.90	6.71	3084	26011
Monsanto	Dekalb DKC66-80 (RR2)	8.35	30.98	73.0	9.44	30.76	50.47	54.48	26.81	6.57	2998	25017
UAP Southwest	Dyna Gro CX05618	8.34	32.59	74.4	9.90	30.99	51.11	58.02	23.47	6.86	3108	25955
Eureka Seeds, Inc.	Seed Tec 7634 RR	8.26	31.39	73.6	9.94	30.37	49.40	54.54	25.87	7.17	2998	24776
Grand Valley Hybrids	25R96	8.25	32.09	74.3	9.87	31.07	50.73	54.53	24.31	7.08	2947	24298
UAP Southwest	Dyna Gro DG 58K40	8.17	31.60	74.2	9.93	30.08	49.19	56.52	25.96	6.47	3132	25576
BASF Plant Science	BPSX326	8.13	29.01	72.0	10.20	26.70	45.02	57.75	29.92	6.76	3317	27002
Eureka Seeds, Inc.	Seed Tec 7624 RR	8.11	31.62	74.4	10.58	27.79	45.49	57.20	27.52	7.10	3245	26345
Grand Valley Hybrids	26R50	7.99	32.14	75.0	9.71	31.09	50.46	57.14	27.34	6.71	3106	24786
Warner Seeds, Inc.	W4705B	7.97	30.95	74.2	9.70	29.78	47.59	57.59	27.39	6.86	3206	25551
Garst Seed Co.	8270 RR	7.94	30.45	74.1	9.99	29.38	48.96	55.57	27.60	6.54	3099	24786

Table 7B (cont.). New Mexico 2005 Full Season Forage Corn Performance Test - Agricultural Science Center at Artesia

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	ADF	NDFD		Starch	Ash	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage	at Harvest			NDF	48hr				
		t/a	t/a	%	%	%	%	%	%	lb/t	lb/a	
Monsanto	Asgrow RX940RR2	7.92	31.23	74.6	10.06	30.94	50.62	56.01	24.32	6.65	3046	24160
UAP Southwest	Dyna Gro CX04319	7.81	29.36	73.4	9.82	27.82	45.65	54.39	29.20	6.83	3143	24558
Eureka Seeds, Inc.	Seed Tec X3054	7.70	27.80	72.3	9.98	27.58	45.07	56.00	30.47	6.50	3258	25123
UAP Southwest	Dyna Gro CX03318	7.49	29.70	74.8	10.44	31.37	51.91	57.04	22.89	7.25	3014	22605
UAP Southwest	Dyna Gro CX04219	7.35	25.98	71.5	9.55	30.57	49.19	53.94	26.52	7.08	2972	21865
	Trial Mean	8.40	30.80	72.7	9.87	29.33	48.19	55.46	27.29	6.84	3100	26055
	LSD	0.94	2.85	2.1	ns	2.24	3.18	2.85	3.07	0.57	191	3540
	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	7.92	6.58	2.02	4.65	5.43	4.68	3.65	7.98	5.96	4.36	9.65
	F Test	0.0002	0.0001	<0.0001	0.0558	<0.0001	<0.0001	0.0035	<0.0001	0.0535	0.0006	0.0033

Table 7C. New Mexico 2005 Full Season Forage Corn Performance Test - Agricultural Science Center at Artesia

Results

Brand/Company Name	Hybrid/Variety Name	TDN		N		Plant Height in	Days to Half Silk
		%	Mcal/lb	lb/a	plants/a		
Warner Seeds, Inc.	WXC1201	65.2	0.67	285	32017	110	74
UAP Southwest	Dyna Gro CX03518	63.8	0.66	289	32343	109	75
Grand Valley Hybrids	26B57	65.1	0.67	283	33323	107	75
Monsanto	Dekalb DKC69-71 (RR2/YGCB)	62.7	0.64	277	30056	107	77
Warner Seeds, Inc.	W4675BR	66.6	0.69	289	32997	107	74
UAP Southwest	Dyna Gro DG 58P59	67.1	0.69	271	30383	110	76
Grand Valley Hybrids	25B93	64.7	0.67	290	32017	111	76
Warner Seeds, Inc.	W4602B	67.8	0.70	287	29403	107	73
UAP Southwest	Dyna Gro CX04520	66.1	0.68	279	26463	105	75
UAP Southwest	Dyna Gro DG58K22	65.0	0.67	257	31690	107	77
Monsanto	Dekalb DKC66-80 (RR2)	64.2	0.66	251	27606	104	75
UAP Southwest	Dyna Gro CX05618	65.3	0.67	264	32017	107	78
Eureka Seeds, Inc.	Seed Tec 7634 RR	64.2	0.66	262	30056	111	76
Grand Valley Hybrids	25R96	63.5	0.65	260	32997	108	77
UAP Southwest	Dyna Gro DG 58K40	65.8	0.68	258	27770	109	77
BASF Plant Science	BPSX326	68.2	0.71	264	31690	101	73
EurekaSeed	Seed Tec 7624 RR	67.3	0.69	274	29076	103	78
Grand Valley Hybrids	26R50	65.4	0.67	248	33650	111	76
Warner Seeds, Inc	W4705B	66.7	0.69	247	28096	106	76
Garst Seed Co.	8270 RR	65.5	0.67	252	31363	103	76

Table 7C (cont.). New Mexico 2005 Full Season Forage Corn Performance Test - Agricultural Science Center at Artesia

Results

Brand/Company Name	Hybrid/Variety Name	TDN		N		Plant	Days to
		%	Mcal/lb	Removal	Population	Height	Half Silk
				lb/a	plants/a	in	days
Monsanto	Asgrow RX940RR2	64.7	0.67	255	31690	111	76
UAP Southwest	Dyna Gro CX04319	66.2	0.68	245	29730	106	75
Eureka Seeds, Inc.	Seed Tec X3054	67.6	0.70	245	28096	105	75
UAP Southwest	Dyna Gro CX03318	64.1	0.66	249	32997	107	76
UAP Southwest	Dyna Gro CX04219	63.9	0.66	224	27116	105	75
	Trial Mean	65.5	0.67	264	30565	99	75
	LSD	2.4	ns	32	ns	5	3
	LSD P>	0.05	0.05	0.05	0.05	0.05	0.05
	CV	2.62	2.83	8.64	12.44	3.41	2.56
	F Test	0.0003	0.6747	0.0036	0.2422	0.0038	0.0002

Table 8A. New Mexico 2005 Forage Corn Performance Test - Agricultural Science Center at Clovis

Investigators: M.A. Marsalis, R.E. Kirksey, C.A. Werner, and A. Scott

Test Description

<p>Location: County/Area: Curry Longitude: -103.22 Latitude: 34.60 Elevation: 4435 ft. Soil Name: Olton Soil Texture: clay loam Soil Depth: >60 in.</p> <p>Test Design: Replications: 4 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 32000 seed/a</p>	<p>Management Practices: Previous Crop: fallow Planting Date: 29-Apr Harvest Date: 8-Sep 9-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>47 lb/a</td> <td>2-May</td> </tr> <tr> <td>Nitrogen</td> <td>50 lb/a</td> <td>20-May</td> </tr> <tr> <td>Nitrogen</td> <td>118 lb/a</td> <td>1-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>110 lb/a</td> <td>11-Jul</td> </tr> <tr> <td>P₂O₅</td> <td>60 lb/a</td> <td>20-May</td> </tr> <tr> <td>S</td> <td>10 lb/a</td> <td>20-May</td> </tr> <tr> <td>Zn</td> <td>1.5 lb/a</td> <td>20-May</td> </tr> </tbody> </table> <p>Herbicides: Bicep Lite II Mag 3 pt/a 2-May</p> <p>Insecticides: Dimethoate 4E 1 pt/a 18-Aug Oberon 8 oz/a 18-Aug Tracer 3 oz/a 18-Aug</p>		Rate	Date	Fertilizer:			Nitrogen	47 lb/a	2-May	Nitrogen	50 lb/a	20-May	Nitrogen	118 lb/a	1-Jul	Nitrogen	110 lb/a	11-Jul	P ₂ O ₅	60 lb/a	20-May	S	10 lb/a	20-May	Zn	1.5 lb/a	20-May	<p>Growing Conditions:</p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td></td><td></td><td></td></tr> <tr><td>February</td><td></td><td></td><td></td></tr> <tr><td>March</td><td></td><td></td><td></td></tr> <tr><td>April</td><td>55.1</td><td>0.8</td><td></td></tr> <tr><td>May</td><td>63.9</td><td>1.9</td><td>3.5</td></tr> <tr><td>June</td><td>75.3</td><td>0.5</td><td>6.0</td></tr> <tr><td>July</td><td>77.3</td><td>1.3</td><td>12.6</td></tr> <tr><td>August</td><td>86.6</td><td>5.0</td><td>5.7</td></tr> <tr><td>September</td><td>71.9</td><td>1.9</td><td></td></tr> <tr><td>October</td><td></td><td></td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table> <p>Seasonal Precipitation: 11.3 in. Total Irrigation: 27.7 in.</p> <p>Date of Last Spring Frost: 12-Apr Date of First Fall Frost: 14-Nov Frost Free Period: 216 days</p>		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March				April	55.1	0.8		May	63.9	1.9	3.5	June	75.3	0.5	6.0	July	77.3	1.3	12.6	August	86.6	5.0	5.7	September	71.9	1.9		October				November				December			
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Table 8B. New Mexico 2005 Forage Corn Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Moisture		at Harvest	CP	ADF	NDF	NDFD		Ash	Milk/ Ton	Milk/ Acre	RFV
		Dry Forage	Green Forage					48hr	Starch				
		t/a	t/a	%	%	%	%	%	%	%	lb/t	lb/a	
Garst Seed Co.	8270 RR	13.19	36.05	63.3	8.92	26.6	47.8	51.8	30.3	5.71	2929	38642	133
Monsanto	Dekalb DKC69-71 (RR2/YGCB)	13.07	32.45	59.7	8.38	26.8	49.2	49.3	32.3	6.32	2579	33694	130
UAP Southwest	Dyna-Gro DG 58K40	12.82	36.21	64.6	8.84	28.1	49.9	51.4	29.3	5.86	2871	36710	126
Golden Acres Genetics	GA 2995 RR	12.80	36.75	65.2	8.57	29.2	50.1	51.3	29.4	6.15	2866	36677	123
Wilbur Ellis Co.	HB 9671 RR	12.78	37.41	65.9	9.03	28.6	50.5	52.7	26.7	5.69	2949	37660	123
Golden Acres Genetics	GA 2841 RRB	12.74	35.88	64.4	8.78	26.1	46.2	54.0	34.0	6.31	3065	39002	138
Grand Valley Hybrids	26B57	12.70	34.58	63.3	8.75	27.2	48.3	51.1	31.8	6.29	2853	36244	131
Golden Acres Genetics	GA X-6511 LLHx	12.68	36.05	64.8	8.80	27.5	49.8	52.7	28.6	5.90	2948	37388	126
UAP Southwest	Dyna-Gro CX04219	12.62	34.03	62.8	8.94	26.2	46.5	53.1	31.5	6.09	2980	37635	137
UAP Southwest	Dyna-Gro CX05618	12.62	36.58	64.9	8.40	29.0	52.6	53.5	28.6	6.25	2852	36008	118
Grand Valley Hybrids	26R50	12.62	33.98	62.8	8.57	28.5	49.9	53.2	29.4	6.12	2875	36310	125
Eureka Seeds, Inc.	Seed Tec 7634 RR	12.59	34.03	62.9	8.76	28.5	51.5	53.2	29.5	6.65	2810	35383	121
UAP Southwest	Dyna-Gro CX03518	12.58	33.71	62.5	8.52	28.7	52.9	55.0	26.7	6.78	2825	35637	118
UAP Southwest	Dyna-Gro DG 58K22	12.52	34.40	63.5	8.16	27.4	48.0	52.5	32.4	5.83	2948	36200	132
Monsanto	Dekalb DKC66-80 (RR2)	12.41	33.38	62.8	8.81	27.8	48.6	51.3	30.8	5.77	2847	35321	129
Triumph Seed Co., Inc.	1866 Bt	12.24	32.29	61.9	8.35	28.0	50.5	53.4	31.5	6.29	2809	34350	124
Warner Seeds, Inc.	W4675BR	12.23	33.05	62.9	9.06	25.2	45.1	53.3	35.0	5.99	3050	37260	143
UAP Southwest	Dyna-Gro CX04319	12.22	32.89	62.9	8.51	26.5	47.7	54.0	32.1	6.17	2964	36274	133
Grand Valley Hybrids	25B93	12.20	33.16	63.1	8.65	25.5	45.3	54.7	33.1	5.51	3133	38228	142
UAP Southwest	Dyna-Gro DG 58P59	12.19	33.87	63.9	8.81	25.5	45.0	53.2	34.5	5.86	3106	37824	143
UAP Southwest	Dyna-Gro CX04520	12.17	33.43	63.7	9.13	25.9	47.6	52.9	31.3	6.14	2978	36140	135
Grand Valley Hybrids	25R96	12.17	35.45	65.4	8.74	29.3	53.0	54.4	27.1	6.18	2911	35418	117
Triumph Seed Co., Inc.	1416 Bt	12.07	30.11	60.0	8.73	24.2	42.8	53.7	35.5	5.86	2991	36013	154
Golden Acres Genetics	GA X-6501 Bt	12.03	34.63	65.2	8.30	28.3	50.5	51.4	29.9	6.14	2856	34357	124

Table 8B (cont.). New Mexico 2005 Forage Corn Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Moisture		at Harvest	CP	ADF	NDF	NDFD		Ash	Milk/ Ton	Milk/ Acre	RFV
		Dry Forage	Green Forage					48hr	Starch				
		t/a	t/a	%	%	%	%	%	%	%	lb/t	lb/a	
Monsanto	Dekalb DKC63-62 (RR2)	12.00	30.22	59.9	9.09	25.0	45.0	51.7	32.9	6.17	2848	34121	144
Monsanto	Asgrow RX940RR2	11.99	34.74	65.4	8.81	28.9	50.6	53.2	26.0	5.61	2958	35418	123
Wilbur Ellis Co.	HB 9681	11.85	34.19	65.3	8.94	27.6	49.6	53.9	29.5	5.71	3031	35876	127
Warner Seeds, Inc.	W4705B	11.82	32.22	63.0	8.53	25.7	46.3	56.4	33.8	6.20	3126	37025	138
Wilbur Ellis Co.	NC+ 7117	11.73	35.39	66.9	9.19	27.4	47.5	52.3	29.6	6.60	3005	35262	134
Eureka Seeds, Inc.	Seed Tec 7624 RR	11.69	33.21	64.8	9.23	27.0	47.5	52.7	30.2	6.70	2967	34655	133
BASF Plant Sciences	BPS X308	11.59	26.74	56.7	8.27	27.3	47.6	55.1	28.9	5.51	2831	32792	132
BASF Plant Sciences	BPS X336	11.46	26.63	56.8	8.76	24.5	44.9	54.3	34.9	6.34	2790	31971	145
Warner Seeds, Inc	WXC1201	11.45	29.12	60.9	8.97	27.7	49.8	51.2	29.6	6.24	2710	31080	126
BASF Plant Sciences	BPS X326	11.45	28.70	60.1	8.87	26.3	47.4	54.0	32.1	6.33	2851	32596	135
UAP Southwest	Dyna-Gro CX03318	11.43	32.51	64.8	9.02	27.5	49.9	53.4	28.1	6.51	2944	33632	126
Warner Seeds, Inc.	W4602B	11.28	27.94	59.1	8.82	23.8	44.0	51.9	35.9	5.83	2876	32623	149
Wilbur Ellis Co.	NC+ 7401	11.27	34.90	67.7	9.03	29.7	51.7	51.3	26.7	6.46	2839	31930	118
BASF Plant Sciences	BPS X274	11.21	32.02	65.1	10.15	27.6	47.9	50.2	27.9	6.80	2874	32198	131
Wilbur Ellis Co.	HB 9661 YGCB	11.14	30.00	62.8	8.68	25.0	45.4	53.6	34.6	5.80	3039	33717	143
Monsanto	Dekalb DKC64-81 (YGCB)	11.08	27.01	58.9	8.84	26.4	48.1	54.1	32.1	6.37	2788	30885	132
BASF Plant Sciences	BPS X349	11.07	27.66	60.0	9.54	26.4	46.8	50.9	31.5	6.72	2746	30402	136
Eureka Seeds, Inc.	Seed Tec X3054	10.80	29.78	63.8	9.19	25.3	45.1	53.2	34.0	5.97	3088	33276	143
BASF Plant Sciences	BPS X257	10.78	27.55	60.9	9.64	25.3	43.8	48.4	32.7	6.09	2813	30293	147
BASF Plant Sciences	BPS X266	10.65	26.08	59.2	9.62	25.6	45.3	49.6	31.5	6.48	2713	28835	142

Table 8B (cont.). New Mexico 2005 Forage Corn Performance Test - Agricultural Science Center at Clovis

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		
BASF Plant Sciences	BPS X251	10.63	26.52	59.9	9.06	26.8	48.1	51.9	30.8	6.12	2780	29531	132
NMSU - ASC Clovis	NC+ 5423 B	10.20	26.08	61.0	9.03	26.2	48.8	55.4	31.0	6.36	2914	29732	131
BASF Plant Sciences	BPS X248	10.16	25.70	60.5	9.57	26.8	47.1	50.0	28.9	6.36	2734	27702	134
BASF Plant Sciences	BPS X263	9.65	26.52	63.7	9.69	26.5	47.5	49.1	29.8	6.73	2790	26755	134
	Trial Mean	11.85	32.00	62.7	8.90	26.9	48.0	52.6	30.9	6.16	2897	34316	132
	LSD	1.09	3.24	2.56	0.40	2.1	3.6	3.5	3.8	0.48	141	3410	13
	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	6.63	7.25	2.92	3.22	5.64	5.41	4.76	8.72	5.61	3.48	7.11	7.11
	F Test	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0017	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

Table 9A. New Mexico 2005 Forage Corn Performance Trial - Agricultural Science Center at Farmington

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

Test Description

<p>Location:</p> <p>County/Area: San Juan Longitude: -108.31 Latitude: 36.68 Elevation: 5640 ft. Soil Name: Wall Soil Texture: sandy loam Soil Depth: > 75 in.</p> <p>Test Design:</p> <p>Replications: 4 Plot Length: 20 ft. Rows per Plot: 4 Row Spacing: 34 in. Seeding Rate: 35000 seed/a</p>	<p>Management Practices:</p> <p>Previous Crop: fallow Planting Date: 12-May Harvest Date: 12-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>10 lb/a</td> <td>16-Mar</td> </tr> <tr> <td>Nitrogen</td> <td>35 lb/a</td> <td>6-Apr</td> </tr> <tr> <td>Nitrogen</td> <td>30 lb/a</td> <td>18-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>33 lb/a</td> <td>26-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>30 lb/a</td> <td>1-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>23 lb/a</td> <td>13-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>23 lb/a</td> <td>21-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>28 lb/a</td> <td>27-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>28 lb/a</td> <td>3-Aug</td> </tr> <tr> <td>P₂O₅</td> <td>52 lb/a</td> <td>16-Mar</td> </tr> <tr> <td>K₂O</td> <td>60 lb/a</td> <td>16-Mar</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Bicep Lite II Mag</td> <td>2.5 pt/a</td> <td>17-May</td> </tr> <tr> <td>Lo Vol 6</td> <td>2 oz/a</td> <td>17-May</td> </tr> <tr> <td>Clarity</td> <td>2 oz/a</td> <td>17-May</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td></td> <td>None</td> <td></td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	10 lb/a	16-Mar	Nitrogen	35 lb/a	6-Apr	Nitrogen	30 lb/a	18-Jun	Nitrogen	33 lb/a	26-Jun	Nitrogen	30 lb/a	1-Jul	Nitrogen	23 lb/a	13-Jul	Nitrogen	23 lb/a	21-Jul	Nitrogen	28 lb/a	27-Jul	Nitrogen	28 lb/a	3-Aug	P ₂ O ₅	52 lb/a	16-Mar	K ₂ O	60 lb/a	16-Mar	Herbicides:			Bicep Lite II Mag	2.5 pt/a	17-May	Lo Vol 6	2 oz/a	17-May	Clarity	2 oz/a	17-May	Insecticides:				None		<p>Growing Conditions:</p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td></td><td></td><td></td></tr> <tr><td>February</td><td></td><td></td><td></td></tr> <tr><td>March</td><td></td><td></td><td></td></tr> <tr><td>April</td><td></td><td></td><td></td></tr> <tr><td>May</td><td>62.5</td><td>0.55</td><td>1.8</td></tr> <tr><td>June</td><td>68.9</td><td>0.11</td><td>4.2</td></tr> <tr><td>July</td><td>79.2</td><td>0.52</td><td>8.7</td></tr> <tr><td>August</td><td>73.2</td><td>1.84</td><td>5.7</td></tr> <tr><td>September</td><td>68.4</td><td>0.48</td><td>2.7</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>3.5 in.</td> <td></td> </tr> <tr> <td>Total Irrigation:</td> <td></td> <td>26.6 in.</td> <td></td> </tr> <tr> <td>Date of Last Spring Freeze:</td> <td>22-Apr</td> <td></td> <td></td> </tr> <tr> <td>Date of First Fall Freeze:</td> <td>31-Oct</td> <td></td> <td></td> </tr> <tr> <td>Frost Free Period:</td> <td>192 days</td> <td></td> <td></td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March				April				May	62.5	0.55	1.8	June	68.9	0.11	4.2	July	79.2	0.52	8.7	August	73.2	1.84	5.7	September	68.4	0.48	2.7	October				November				December				Seasonal Precipitation:		3.5 in.		Total Irrigation:		26.6 in.		Date of Last Spring Freeze:	22-Apr			Date of First Fall Freeze:	31-Oct			Frost Free Period:	192 days		
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Table 9B. New Mexico 2005 Forage Corn Performance Test - Agricultural Science Center at Farmington

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		
UAP Southwest	Dyna-Gro CX05019	13.31	38.48	65.4	7.86	28.9	49.7	60.5	31.3	6.30	3244	43000	125	
UAP Southwest	Dyna-Gro DG 55P41	12.75	34.63	63.3	8.15	25.7	44.4	62.2	34.6	5.86	3509	44585	145	
UAP Southwest	Dyna-Gro CX05516	12.69	37.57	66.2	8.17	29.0	49.2	60.5	31.4	6.04	3280	41452	126	
Eureka Seeds, Inc.	Seed Tec X3054	12.32	42.42	71.0	8.96	28.4	47.0	62.7	31.7	6.50	3409	41882	132	
Monsanto	Dekalb DKC64-81 (YGCB)	12.05	33.09	63.9	8.43	26.1	45.4	62.8	33.5	6.22	3477	41691	142	
Eureka Seeds, Inc.	Seed Tec 7634 RR	11.69	38.58	69.6	8.40	31.0	53.4	62.3	26.3	6.51	3212	37445	113	
BASF Plant Sciences	BPS X326	11.56	35.98	67.7	8.20	25.7	45.1	61.2	34.6	5.83	3462	40011	143	
UAP Southwest	Dyna-Gro 56P24	11.55	33.48	65.4	8.53	25.0	43.7	62.5	35.5	6.04	3524	40588	148	
BASF Plant Sciences	BPS X251	11.47	31.99	63.9	8.23	26.5	47.5	59.7	31.3	5.64	3349	38418	134	
BASF Plant Sciences	BPS X245	11.39	31.99	64.3	8.94	25.6	45.2	58.1	34.6	5.82	3334	37946	143	
Monsanto	Dekalb DKC66-80 (RR2)	11.37	39.15	70.5	8.34	29.8	51.2	62.2	29.3	6.10	3284	37548	121	
Wilbur-Ellis Co.	NC+ 7401	11.34	41.08	72.4	8.70	32.6	54.5	60.0	24.5	6.36	3075	34877	109	
UAP Southwest	Dyna-Gro CX05014	11.30	35.40	68.0	8.40	27.0	46.2	59.7	32.0	5.90	3350	37934	137	
UAP Southwest	Dyna-Gro DG 57P12	11.20	36.85	69.6	8.37	29.8	50.3	60.3	29.8	6.13	3234	36027	122	
BASF Plant Sciences	BPS X299	10.97	27.66	60.3	8.00	27.3	48.0	62.2	31.4	5.86	3411	37356	131	
BASF Plant Sciences	BPS X248	10.91	32.61	66.6	8.84	25.1	44.3	60.1	34.4	5.58	3460	37783	148	
BASF Plant Sciences	BPS X274	10.83	35.07	69.1	8.49	29.3	51.3	61.9	28.1	6.14	3299	35805	120	
UAP Southwest	Dyna-Gro 56P80	10.75	28.86	62.8	8.06	24.6	42.5	59.5	38.2	5.62	3472	37267	153	

Table 9B (cont.). New Mexico 2005 Forage Corn Performance Test - Agricultural Science Center at Farmington

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		
BASF Plant Sciences	BPS X257	10.7	33.0	67.2	9.70	25.4	45.8	63.1	33.0	6.0	3516	37666	141
BASF Plant Sciences	BPS X308	10.7	28.7	62.6	8.14	29.9	51.3	60.8	27.1	5.9	3241	34866	120
Dow Agro Science	Mycogen F2F581	10.7	28.0	61.7	8.83	24.7	43.8	63.6	33.7	6.1	3576	38308	148
Eureka Seeds, Inc.	Seed Tec 7624RR	10.6	42.1	74.9	9.19	29.0	52.2	62.7	26.1	6.9	3220	33859	118
UAP Southwest	Dyna-Gro DG 58P59	10.5	41.3	74.1	8.43	28.1	48.1	60.4	31.0	6.1	3313	34722	131
BASF Plant Sciences	BPS X336	10.4	31.6	66.9	8.65	26.5	46.9	61.7	32.5	6.3	3393	35210	137
Monsanto	Dekalb DKC63-62 (RR2)	10.4	30.2	65.5	8.41	28.8	49.9	62.3	29.7	6.3	3325	34480	124
BASF Plant Sciences	BPS X295	9.8	31.1	68.2	8.39	27.4	46.9	61.7	31.4	6.2	3384	32616	134
BASF Plant Sciences	BPS X349	9.8	29.3	66.7	8.84	28.2	49.8	61.4	28.4	6.4	3301	32320	126
BASF Plant Sciences	BPS X243	9.8	26.7	63.3	9.43	27.5	50.0	60.7	26.7	6.4	3257	31709	126
Dow Agro Science	Mycogen F2F797	9.7	37.4	74.2	9.52	29.5	53.1	71.5	23.0	6.4	3668	35553	116
BASF Plant Sciences	BPS X266	9.5	27.8	65.9	8.72	27.4	49.3	61.1	29.8	6.0	3329	31863	129
BASF Plant Sciences	BPS X263	9.5	29.2	67.5	9.25	27.8	49.5	63.6	28.0	6.1	3414	31973	127
	Trial Mean	11.0	33.9	67.1	8.60	27.7	48.2	61.7	30.7	6.1	3365	36992	131
	LSD	ns	7.99	3.94	0.97	3.27	5	4.08	5.16	0.55	266.68	ns	18
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	18.65	16.78	4.18	8.02	8.41	7.14	4.71	11.94	6.49	5.64	18.54	9.62
	F Test	0.6337	0.0002	<0.0001	0.0185	0.0001	<0.0001	0.0009	<0.0001	0.0023	0.0234	0.5016	<0.0001

Table 9C. New Mexico 2005 Forage Corn Performance Test - Agricultural Science Center at Farmington

Results

Brand/Company Name	Hybrid/Variety Name	Plant Height	Ear Height	Population	Silk Date
		in	in	plants/a	
UAP Southwest	Dyna-Gro CX05019	110	47	38481	2-Aug
UAP Southwest	Dyna-Gro DG 55P41	104	39	38481	31-Jul
UAP Southwest	Dyna-Gro CX05516	110	44	37326	4-Aug
Eureka Seeds, Inc.	Seed Tec X3054	116	47	37326	2-Aug
Monsanto	Dekalb DKC64-81 (YGCB)	99	36	43098	31-Jul
Eureka Seeds, Inc.	Seed Tec 7634 RR	109	48	39250	5-Aug
BASF Plant Sciences	BPS X326	104	38	39250	1-Aug
UAP Southwest	Dyna-Gro 56P24	101	44	33093	31-Jul
BASF Plant Sciences	BPS X251	106	45	39635	30-Jul
BASF Plant Sciences	BPS X245	107	41	32708	31-Jul
Monsanto	Dekalb DKC66-80 (RR2)	109	49	35787	3-Aug
Wilbur-Ellis Co.	NC+ 7401	109	48	30015	6-Aug
UAP Southwest	Dyna-Gro CX05014	106	39	33478	3-Aug
UAP Southwest	Dyna-Gro DG 57P12	109	43	32324	3-Aug
BASF Plant Sciences	BPS X299	107	33	41174	31-Jul
BASF Plant Sciences	BPS X248	102	46	34633	31-Jul
BASF Plant Sciences	BPS X274	112	48	38865	3-Aug
UAP Southwest	Dyna-Gro 56P80	92	36	33863	30-Jul

Table 9C (cont.). New Mexico 2005 Forage Corn Performance Test - Agricultural Science Center at Farmington

Results

Brand/Company Name	Hybrid/Variety Name	Plant Height	Ear Height	Population	Silk Date
		in	in	plants/a	
BASF Plant Sciences	BPS X257	102	41	33093	2-Aug
BASF Plant Sciences	BPS X308	117	43	34248	3-Aug
Dow Agro Science	Mycogen F2F581	89	36	41174	29-Jul
Eureka Seeds, Inc.	Seed Tec 7624 RR	103	44	38096	5-Aug
UAP Southwest	Dyna-Gro DG 58P59	104	41	32324	3-Aug
BASF Plant Sciences	BPS X336	100	43	36557	31-Jul
Monsanto	Dekalb DKC63-62 (RR2)	103	43	38481	2-Aug
BASF Plant Sciences	BPS X295	98	39	35402	30-Jul
BASF Plant Sciences	BPS X349	101	46	38481	1-Aug
BASF Plant Sciences	BPS X243	103	45	32324	30-Jul
Dow Agro Science	Mycogen F2F797	106	47	38865	4-Aug
BASF Plant Sciences	BPS X266	99	41	35017	2-Aug
BASF Plant Sciences	BPS X263	106	45	39635	31-Jul
	Trial Mean	104.0	43.0	36532	1-Aug
	LSD	8.87	5.65	ns	2.23
	LSD P >	0.05	0.05	0.05	0.05
	CV	6.05	9.43	14.47	0.75
	F Test	<0.0001	<0.0001	0.0759	<0.0001

Table 10A. New Mexico 2005 Forage Corn Performance Test - Agricultural Science Center at Los Lunas

Investigators: L.M. English, L. Swanick, and D.A. McWilliams

Test Description

<p>Location:</p> <p>County/Area: Valencia Longitude: -106.75 Latitude: 34.77 Elevation: 4840 ft. Soil Name: Gila Soil Texture: coarse loam Soil Depth: 60 in.</p> <p>Test Design:</p> <p>Replications: 4 Plot Length: 10 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 30,000 seed/a</p>	<p>Management Practices:</p> <p>Previous Crop: bottle brush grass Planting Date: 12-May Harvest Date: 3-Oct</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>90 lb/a</td> <td>28-Apr</td> </tr> <tr> <td>Nitrogen</td> <td>82 lb/a</td> <td>24-May</td> </tr> <tr> <td>Nitrogen</td> <td>92 lb/a</td> <td>14-Jun</td> </tr> <tr> <td>P₂O₅</td> <td>45 lb/a</td> <td>28-Apr</td> </tr> <tr> <td>K₂O</td> <td>45 lb/a</td> <td>28-Apr</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Bladex</td> <td>1 qt/a</td> <td>12-May</td> </tr> <tr> <td>Atrazine</td> <td>1 qt/a</td> <td>12-May</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td>None</td> <td></td> <td></td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	90 lb/a	28-Apr	Nitrogen	82 lb/a	24-May	Nitrogen	92 lb/a	14-Jun	P ₂ O ₅	45 lb/a	28-Apr	K ₂ O	45 lb/a	28-Apr	Herbicides:			Bladex	1 qt/a	12-May	Atrazine	1 qt/a	12-May	Insecticides:			None			<p>Growing Conditions:</p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>40.3</td><td>1.4</td><td></td></tr> <tr><td>February</td><td>43.2</td><td>1.6</td><td></td></tr> <tr><td>March</td><td>46.6</td><td>0.8</td><td></td></tr> <tr><td>April</td><td>54.7</td><td>0.5</td><td></td></tr> <tr><td>May</td><td>65.3</td><td>0.0</td><td>6.0</td></tr> <tr><td>June</td><td>72.4</td><td>0.3</td><td>6.0</td></tr> <tr><td>July</td><td>79.2</td><td>0.3</td><td>9.0</td></tr> <tr><td>August</td><td>75.7</td><td>0.4</td><td>9.0</td></tr> <tr><td>September</td><td>70.8</td><td>1.7</td><td>3.0</td></tr> <tr><td>October</td><td>57.8</td><td>1.0</td><td></td></tr> <tr><td>November</td><td>43.3</td><td>0.9</td><td></td></tr> <tr><td>December</td><td>34.6</td><td>0.5</td><td></td></tr> <tr> <td>Seasonal Precipitation:</td> <td></td> <td>3.2 in.</td> <td></td> </tr> <tr> <td>Total Irrigation:</td> <td></td> <td>33.0 in.</td> <td></td> </tr> <tr> <td>Date of Last Spring Frost:</td> <td colspan="3">13-Apr</td> </tr> <tr> <td>Date of First Fall Frost:</td> <td colspan="3">30-Oct</td> </tr> <tr> <td>Frost Free Period:</td> <td colspan="3">199 days</td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January	40.3	1.4		February	43.2	1.6		March	46.6	0.8		April	54.7	0.5		May	65.3	0.0	6.0	June	72.4	0.3	6.0	July	79.2	0.3	9.0	August	75.7	0.4	9.0	September	70.8	1.7	3.0	October	57.8	1.0		November	43.3	0.9		December	34.6	0.5		Seasonal Precipitation:		3.2 in.		Total Irrigation:		33.0 in.		Date of Last Spring Frost:	13-Apr			Date of First Fall Frost:	30-Oct			Frost Free Period:	199 days		
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Table 10B. New Mexico 2005 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	Population	Ear Height
		Dry Forage	Green Forage	at Harvest				48hr	Starch					
		t/a	t/a	%	%	%	%	%	%	lb/t	lb/a	plants/a	in	
Grand Valley Hybrids	25B93	10.76	18.60	38.2	8.58	24.1	41.8	48.4	36.7	5.46	3169	40917	29621	44
BASF Plant Sciences	BPS X308	10.36	16.73	36.7	7.01	29.8	52.4	55.0	25.1	5.16	3058	34038	30928	39
Monsanto	Asgrow RX940RR2	10.17	18.86	45.6	8.70	21.6	38.1	45.8	39.4	5.06	3243	35183	27443	47
BASF Plant Sciences	BPS X349	10.03	14.93	31.0	8.38	24.3	38.5	43.0	33.5	5.34	3115	32333	31363	46
Grand Valley Hybrids	25R96	9.86	14.89	31.5	7.38	31.2	51.4	49.1	25.7	5.93	2768	23918	27878	52
Eureka Seeds, Inc.	Seed Tec 7634RR	9.51	13.99	30.5	6.51	37.4	56.8	46.2	20.7	7.17	2313	20076	28750	48
BASF Plant Sciences	BPS X266	9.36	14.56	34.3	8.93	23.4	40.9	46.6	36.0	5.51	3159	33080	30928	44
BASF Plant Sciences	BPS X251	9.11	14.32	32.8	8.63	24.5	42.3	49.2	34.9	5.05	3253	30224	28750	43
Monsanto	Dekalb DKC66-80 (RR2)	9.10	15.58	38.5	7.53	22.9	38.7	43.1	42.1	5.32	3098	34603	30928	50
Grand Valley Hybrids	26R50	9.08	13.69	31.4	6.90	35.1	57.1	41.1	23.7	7.58	2017	17284	28750	52
Monsanto	DKC69-71 (RR2/YGCB)	8.77	10.13	13.2	6.44	38.4	58.6	40.0	19.0	7.52	1863	17795	30056	48
BASF Plant Sciences	BPS X336	8.74	12.20	27.5	7.61	23.7	39.8	50.4	38.5	5.70	3302	34206	29185	42
Monsanto	DKC63-62 (RR2)	8.57	12.80	30.1	8.21	24.1	42.5	48.1	34.1	5.18	3150	33958	30928	40
Monsanto	DKC64-81 (YGCB)	8.56	12.00	27.8	6.29	39.6	60.7	48.3	15.5	8.35	2172	15684	30928	38
Eureka Seeds, Inc.	Seed Tec X3054	8.54	12.95	33.2	7.74	24.3	40.7	47.4	37.8	5.28	3181	25704	28750	37
Grand Valley Hybrids	26B57	8.53	13.74	33.2	8.35	25.0	39.7	40.8	33.8	6.21	2891	25323	30928	43
Eureka Seeds, Inc.	Seed Tec 7624 RR	8.39	16.37	47.3	9.48	26.1	38.0	46.6	33.5	6.13	3174	24348	30056	46
BASF Plant Sciences	BPS X326	8.16	12.34	31.8	7.68	24.6	42.7	42.5	36.5	5.44	2880	24048	29621	38
BASF Plant Sciences	BPS X299	8.12	13.88	41.5	6.88	35.0	57.5	53.9	20.3	5.22	2789	24603	28750	32
BASF Plant Sciences	BPS X245	7.98	15.30	47.8	8.20	27.4	50.4	43.7	28.2	5.95	2576	18499	31799	45

Table 10B (cont.). New Mexico 2005 Forage Corn Performance Test - Agricultural Science Center at Los Lunas

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	ADF	NDFD			Ash	Milk/Ton	Milk/Acre	Population	Ear Height
		Dry Forage t/a	Green Forage t/a	at Harvest %			NDF %	48hr %	Starch %					
BASF Plant Sciences	BPS X263	7.50	12.38	39.0	9.17	20.2	35.8	39.0	42.9	5.38	3071	22757	30492	42
BASF Plant Sciences	BPS X274	7.49	14.35	47.2	9.24	23.6	36.6	39.2	34.1	6.48	2942	22564	30492	46
BASF Plant Sciences	BPS X243	7.18	11.68	38.5	11.61	34.8	57.8	52.0	10.2	7.45	2527	18804	30056	41
BASF Plant Sciences	BPS X295	6.82	10.76	35.7	7.98	29.9	51.1	54.7	24.5	6.05	3017	21842	29621	37
BASF Plant Sciences	BPS X257	6.66	10.15	35.6	8.83	37.7	59.5	48.2	12.9	7.38	2280	13955	25265	43
BASF Plant Sciences	BPS X248	6.58	10.91	39.7	8.35	32.3	52.1	51.2	21.6	6.78	2786	14376	30492	42
	Trial Mean	8.61	13.77	35.4	8.10	28.5	47.0	46.7	29.3	6.10	2838	25389	29721	43
	LSD	1.67	4.05	14.2									ns	5
	LSD P >	0.05	0.05	0.05									0.05	0.05
	CV	13.76	20.88	28.50									8.27	8.54
	F Test	<0.0001	0.0009	0.0052									0.1551	<0.0001

Table 11A. New Mexico 2005 Forage Sorghum Performance Test - Agricultural Science Center at Artesia

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

Test Description

<p>Location:</p> <p>County/Area: Eddy Longitude: -104.37 Latitude: 32.75 Elevation: 3348 ft. Soil Name: Reeves Soil Texture: loam Soil Depth: 32 in.</p> <p>Test Design:</p> <p>Replications: 8 Plot Length: 25 ft. Rows per Plot: 2 Row Spacing: 40 in. Seeding Rate: 72000 seed/a</p>	<p>Management Practices:</p> <p>Previous Crop: cotton Planting Date: 17-May Harvest Dates: 8-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>140 lb/a</td> <td>13-Jun 8-Jul</td> </tr> <tr> <td>P₂O₅</td> <td>116 lb/a</td> <td>21-Mar</td> </tr> </tbody> </table> <p>Herbicides: None</p> <p>Insecticides: None</p>		Rate	Date	Fertilizer:			Nitrogen	140 lb/a	13-Jun 8-Jul	P ₂ O ₅	116 lb/a	21-Mar	<p>Growing Conditions:</p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td></td><td></td><td></td></tr> <tr><td>February</td><td></td><td></td><td></td></tr> <tr><td>March</td><td></td><td></td><td>4.2</td></tr> <tr><td>April</td><td></td><td></td><td>2.2</td></tr> <tr><td>May</td><td>67.6</td><td>1.7</td><td></td></tr> <tr><td>June</td><td>77.3</td><td>0.2</td><td>7.8</td></tr> <tr><td>July</td><td>79.9</td><td>0.1</td><td>9.9</td></tr> <tr><td>August</td><td>77.3</td><td>2.9</td><td></td></tr> <tr><td>September</td><td>74.2</td><td>0.1</td><td></td></tr> <tr><td>October</td><td>60.9</td><td>1.1</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: 3.3 in. Total Irrigation: 19.9 in.</p> <p>Date of Last Spring Frost: 12-Apr Date of First Fall Frost: 1-Nov Frost Free Period: 203 days</p>		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March			4.2	April			2.2	May	67.6	1.7		June	77.3	0.2	7.8	July	79.9	0.1	9.9	August	77.3	2.9		September	74.2	0.1		October	60.9	1.1		November				December			
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Table 11B. New Mexico 2005 Forage Sorghum Performance Test - Agricultural Science Center at Artesia

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	ADF	NDF	NDFD 48hr	TDN	Ash	Milk/ Ton	Milk/ Acre	NE _L	Plant Height
		Dry Forage	Green Forage	at Harvest										
		t/a	t/a	%	%	%	%	%	%	%	lb/t	lb/a	Mcal/lb	in
Kelly Green Seeds, Inc.	F104	8.09	29.29	72.39	8.65	36.4	66.2	75.9	68.5	8.80	3482	28186	0.708	91
UAP Southwest	Dyna-Gro 710F	7.90	30.29	73.93	8.26	37.3	67.9	70.8	64.9	8.75	3189	25192	0.644	118
Seed Resource	BMR106	7.60	30.03	74.70	9.06	33.7	65.1	82.4	73.0	8.97	3850	29266	0.759	112
Seed Resource	FS 515 HQ	7.29	27.24	73.21	8.50	34.4	65.5	82.3	73.7	8.14	3900	28423	0.767	104
UAP Southwest	Dyna-Gro FX04012	6.81	27.85	75.53	8.91	33.9	66.2	85.3	74.4	9.37	3967	27039	0.774	110
UAP Southwest	Dyna-Gro FX05100	6.77	28.59	76.32	8.33	39.2	70.7	72.4	64.4	9.48	3159	21410	0.662	87
Garst Seed Co.	Garst 325	6.53	29.68	78.02	8.03	39.9	73.5	72.1	63.7	9.47	3105	20273	0.655	81
	Trial Mean	7.29	29.00	74.9	8.53	36.4	67.9	77.3	69.0	9.00	3522	25684	0.710	100
	LSD	0.57	1.65	1.21	0.32	0.9	1.7	1.9	1.4	0.51	112	2165	0.032	5
	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	7.78	5.64	1.61	3.70	2.39	2.52	2.46	2.01	7.47	3.16	8.38	4.47	5.28
	F Test	<0.0001	0.0031	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

Table 12B. New Mexico 2005 Forage Sorghum Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	ADF	NDF	NDFD 48hr	TDN	Ash	Milk/Ton	Milk/Acre	RFV
		Dry Forage	Green Forage	at Harvest									
		t/a	t/a	%	%	%	%	%	%	%	lb/t	lb/a	
UAP Southwest	Dyna-Gro 710F	11.75	27.78	57.7	5.43	35.9	59.3	67.5	61.1	5.39	2927	34375	96
Garst Seed Co.	Garst Hi-Energy II	10.90	30.71	64.6	4.87	38.5	63.3	66.0	57.1	6.68	2628	28766	87
Seed Resource	FS 515 HQ	10.68	24.99	57.3	4.75	37.8	62.3	68.7	58.5	7.50	2747	29256	89
UAP Southwest	Dyna-Gro FX05100	9.30	24.56	62.1	5.88	36.2	61.3	71.3	61.1	6.44	2956	27535	92
Garst Seed Co.	Garst 325	9.19	25.81	64.3	5.52	39.6	64.7	67.4	56.2	8.00	2573	23681	84
UAP Southwest	Dyna-Gro FX04012	9.14	26.90	66.1	6.16	35.5	61.1	73.0	60.6	7.66	2930	26863	93
Kelly Green Seeds, Inc.	KGS 105	8.79	21.67	59.4	5.11	38.5	62.3	67.4	56.5	8.66	2599	22849	88
Seed Resource	BMR 106	8.66	21.35	59.5	6.13	34.3	59.6	70.6	62.6	5.26	3059	26464	97
	Trial Mean	9.80	25.47	61.4	5.48	37.0	61.7	69.0	59.2	6.95	2802	27474	91
	LSD	1.29	2.28	2.8	0.90	1.9	2.8	2.1	2.4	1.27	186	4319	6
	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	8.92	6.10	3.06	11.17	3.42	3.09	2.07	2.79	12.48	4.51	10.69	4.60
	F Test	0.0003	<0.0001	<0.0001	0.0184	<0.0001	0.0101	<0.0001	<0.0001	<0.0001	<0.0001	0.0007	0.0017

Table 13A. New Mexico 2005 Forage Sorghum Performance Test - Agricultural Science Center at Los Lunas

Investigators: L.M. English, L. Swanick, and D.A. McWilliams

Test Description

<p>Location: County/Area: Valencia Longitude: -106.75 Latitude: 34.77 Elevation: 4840 ft. Soil Name: Gila Soil Texture: coarse loam Soil Depth: 60 in.</p> <p>Test Design: Replications: 4 Plot Length: 10 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 70,000 seed/a</p>	<p>Management Practices: Previous Crop: bottle brush grass Planting Date: 12-May Harvest Date: 4-Oct</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>90 lb/a</td> <td>28-Apr</td> </tr> <tr> <td>Nitrogen</td> <td>82 lb/a</td> <td>24-May</td> </tr> <tr> <td>Nitrogen</td> <td>92 lb/a</td> <td>14-Jun</td> </tr> <tr> <td>P₂O₅</td> <td>45 lb/a</td> <td>28-Apr</td> </tr> <tr> <td>K₂O</td> <td>45 lb/a</td> <td>28-Apr</td> </tr> </tbody> </table> <p>Herbicides: Clarity 8 oz/a 12-May</p> <p>Insecticides: None</p>		Rate	Date	Fertilizer:			Nitrogen	90 lb/a	28-Apr	Nitrogen	82 lb/a	24-May	Nitrogen	92 lb/a	14-Jun	P ₂ O ₅	45 lb/a	28-Apr	K ₂ O	45 lb/a	28-Apr	<p>Growing Conditions:</p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>40.3</td><td>1.4</td><td></td></tr> <tr><td>February</td><td>43.2</td><td>1.6</td><td></td></tr> <tr><td>March</td><td>46.6</td><td>0.8</td><td></td></tr> <tr><td>April</td><td>54.7</td><td>0.5</td><td></td></tr> <tr><td>May</td><td>65.3</td><td>0.0</td><td>6.0</td></tr> <tr><td>June</td><td>72.4</td><td>0.3</td><td>6.0</td></tr> <tr><td>July</td><td>79.2</td><td>0.3</td><td>9.0</td></tr> <tr><td>August</td><td>75.7</td><td>0.4</td><td>9.0</td></tr> <tr><td>September</td><td>70.8</td><td>1.7</td><td>3.0</td></tr> <tr><td>October</td><td>57.8</td><td>1.0</td><td></td></tr> <tr><td>November</td><td>43.3</td><td>0.9</td><td></td></tr> <tr><td>December</td><td>34.6</td><td>0.5</td><td></td></tr> </tbody> </table> <p>Seasonal Precipitation: 4.2 in. Total Irrigation: 33.0 in.</p> <p>Date of Last Spring Frost: 13-Apr Date of First Fall Frost: 30-Oct Frost Free Period: 199 days</p>		Average Temp. °F	Precip. in.	Irrigation in.	January	40.3	1.4		February	43.2	1.6		March	46.6	0.8		April	54.7	0.5		May	65.3	0.0	6.0	June	72.4	0.3	6.0	July	79.2	0.3	9.0	August	75.7	0.4	9.0	September	70.8	1.7	3.0	October	57.8	1.0		November	43.3	0.9		December	34.6	0.5	
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Table 13B. New Mexico 2005 Forage Sorghum Performance Test - Agricultural Science Center at Los Lunas

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	ADF	NDF	NDFD 48hr	TDN	Ash	Milk/Ton	Milk/Acre	Plant Height
		Dry Forage t/a	Green Forage t/a	at Harvest %									
Seed Resource	BMR 106	9.89	30.70	67.8	6.14	46.7	72.6	59.5	47.9	6.80	1920	20539	87.0
Seed Resource	FS 515 HQ	8.00	24.33	67.1	7.66	48.7	70.1	60.4	46.9	8.60	1854	16128	60.8
	Trial Mean	8.94	27.51	67.4	6.90	47.7	71.4	59.9	47.4	7.70	1887	18334	73.9
	LSD	0.34	1.89	ns									8.2
	LSD P >	0.05	0.05	0.05									0.05
	CV	1.68	3.06	1.20									4.90
	F Test	0.0004	0.0017	0.2916									0.0020

Table 14B. New Mexico 2005 Sorghum x Sudangrass Performance Test - Agricultural Science Center at Artesia

Results

Brand/Company Name	Hybrid/Variety Name	Harvest 1					Harvest 2						
		Dry Forage	Green Forage	Moisture at harvest		Milk/ton	Milk/acre	Dry Forage	Green Forage	Moisture at harvest		Milk/ton	Milk/acre
				%	lb/t					%	lb/t		
		t/a	t/a	%	lb/t	lb/a	t/a	t/a	%	lb/t	lb/a		
UAP Southwest	Danny Boy BMR	6.76	25.70	73.7	2521	17088	3.94	15.32	74.2	2167	7772		
Seed Resource	SS 200 BMR	6.57	24.35	72.9	2562	16854	3.77	14.96	74.7	2252	8475		
Seed Resource	SS 204 BMR	6.41	26.59	75.7	2453	15745	4.23	16.93	74.8	2204	9315		
	Trial Mean	6.58	25.54	74.1	2512	16563	3.98	15.73	74.6	2208	8520		
	LSD	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		
	CV	9.77	7.81	3.77	4.54	12.98	15.22	16.78	2.63	4.29	23.65		
	F Test	0.5603	0.1133	0.1664	0.1911	0.4342	0.3395	0.3136	0.7793	0.2308	0.3375		

Table 14C. New Mexico 2005 Sorghum x Sudangrass Performance Test - Agricultural Science Center at Artesia

Results

Brand/Company Name	Hybrid/Variety Name	Harvest 1						Harvest 2					
		CP	ADF	NDF	Ash	TDN	NE _L	CP	ADF	NDF	Ash	TDN	NE _L
		%	%	%	%	%	Mcal/lb	%	%	%	%	%	Mcal/lb
UAP Southwest	DannyBoy BMR	12.02	37.9	62.9	8.18	55.7	0.57	12.07	41.7	66.0	12.02	50.7	0.51
Seed Resource	SS 200 BMR	11.96	37.7	62.6	7.28	56.3	0.57	12.00	40.7	64.9	11.04	51.9	0.52
Seed Resource	SS 204 BMR	12.13	39.3	64.3	8.86	54.7	0.55	11.93	41.6	65.7	12.11	51.1	0.52
	Trial Mean	12.03	38.3	63.3	8.10	55.6	0.56	12.00	41.3	65.5	11.72	51.2	0.52
	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	5.50	4.58	2.94	17.22	2.91	3.19	5.41	2.99	2.24	8.20	2.48	1.94
	F Test	0.8797	0.1915	0.1818	0.1106	0.1563	0.1563	0.9086	0.2833	0.3207	0.0799	0.1867	0.1807

Table 15A. New Mexico 2005 Sorghum x Sudangrass and Millet Performance Test - Agricultural Science Center at Clovis

Investigators: M.A. Marsalis, R.E. Kirksey, C.A. Werner, and A. Scott

Test Description

<p>Location: County/Area: Curry Longitude: -103.22 Latitude: 34.60 Elevation: 4435 ft. Soil Name: Olton Soil Texture: clay loam Soil Depth: >60 in.</p>	<p>Management Practices: Previous Crop: fallow Planting Date: 8-Jun *Harvest Dates: 18-Jul 28-Jul 18-Aug 15-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>50 lb/a</td> <td>16-May</td> </tr> <tr> <td>Nitrogen</td> <td>30 lb/a</td> <td>10-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>60 lb/a</td> <td>29-Jul</td> </tr> <tr> <td>P₂O₅</td> <td>60 lb/a</td> <td>16-May</td> </tr> <tr> <td>S</td> <td>10 lb/a</td> <td>16-May</td> </tr> <tr> <td>Zn</td> <td>1.5 lb/a</td> <td>16-May</td> </tr> </tbody> </table> <p>Herbicides: Atrazine 2 pt/a 10-Jun</p> <p>Insecticides: None</p> <p>*Harvests at early boot or at 40" tall</p>		Rate	Date	Fertilizer:			Nitrogen	50 lb/a	16-May	Nitrogen	30 lb/a	10-Jun	Nitrogen	60 lb/a	29-Jul	P ₂ O ₅	60 lb/a	16-May	S	10 lb/a	16-May	Zn	1.5 lb/a	16-May	<p>Growing Conditions:</p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td></td><td></td><td></td></tr> <tr><td>February</td><td></td><td></td><td></td></tr> <tr><td>March</td><td></td><td></td><td></td></tr> <tr><td>April</td><td></td><td></td><td></td></tr> <tr><td>May</td><td>63.9</td><td>1.9</td><td></td></tr> <tr><td>June</td><td>75.3</td><td>0.5</td><td>4.0</td></tr> <tr><td>July</td><td>77.3</td><td>1.3</td><td>5.9</td></tr> <tr><td>August</td><td>86.6</td><td>5.0</td><td>3.9</td></tr> <tr><td>September</td><td>71.9</td><td>1.6</td><td>0.7</td></tr> <tr><td>October</td><td></td><td></td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table> <p>Seasonal Precipitation: 8.4 in. Total Irrigation: 14.4 in.</p> <p>Date of Last Spring Frost: 12-Apr Date of First Fall Frost: 14-Nov Frost Free Period: 216 days</p>		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March				April				May	63.9	1.9		June	75.3	0.5	4.0	July	77.3	1.3	5.9	August	86.6	5.0	3.9	September	71.9	1.6	0.7	October				November				December			
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<p>Test Design: Replications: 4 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in. Seeding Rate: 20 lb/a</p>																																																																														

Table 15B. New Mexico 2005 Sorghum x Sudangrass and Millet Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Harvest 1						Harvest 2							
		Dry Forage	Green Forage	Moisture		Milk/ton	Milk/acre	RFV	Dry Forage	Green Forage	Moisture		Milk/ton	Milk/acre	RFV
				at harvest	%						at harvest	%			
t/a	t/a	%	lb/t	lb/a	t/a	t/a	%	lb/t	lb/a						
Kelly Green Seeds, Inc.	4-S	1.86	11.88	84.3	2998	5716	109	1.78	11.30	84.5	2927	5186	105		
Kelly Green Seeds, Inc.	4-S BMR	1.91	12.41	84.5	2920	5551	108	1.99	12.65	84.5	2735	5458	98		
Seed Resource	SS 204 BMR	1.56	9.97	84.3	3053	4767	113	2.42	12.54	80.8	2826	6873	101		
Seed Resource	SS 200 BMR	1.68	10.81	84.5	2989	5038	109	2.10	12.66	83.5	2744	5746	96		
UAP Southwest	Danny Boy BMR	1.77	12.03	85.3	3040	5375	112	1.85	12.03	84.8	2749	5104	99		
Triumph Seed Co. Inc.	SuperSweet 12	2.00	13.57	85.0	2917	5779	105	1.83	11.39	83.8	2703	4920	98		
Richardson Seed	Sweeter-N-Honey II	1.62	11.06	85.5	2924	4875	109	1.71	12.27	86.3	2745	4692	100		
Seed, Inc.	Ribbon Grazer	1.96	11.80	83.3	2915	6007	106	1.93	12.16	83.5	2611	5033	93		
Seed Resource	Mil Hy 300	2.89	17.82	83.8	2810	8100	105	1.08	7.87	86.3	3006	3258	118		
Seed Resource	Mil Hy 400	2.01	12.37	83.8	2894	5639	109	1.51	9.18	83.8	3036	4625	117		
Seed Resource	Mil Hy 500	2.15	12.74	83.3	2845	6115	108	1.44	9.53	84.8	2871	4117	107		
Kelly Green Seeds, Inc.	HY-PER-MIL (Pearl Millet)	2.06	12.29	83.3	2869	5687	109	1.70	8.66	80.8	2868	4886	109		
Kelly Green Seeds, Inc.	German Foxtail	1.26	6.95	82.0	2925	3697	117	.	.	.	.	.	.
	Trial Mean	1.90	11.98	84.0	2931	5557	109	1.78	11.02	83.9	2818	4992	103		
	LSD	0.33	2.30	1.5	ns	1256	ns	0.57	2.03	ns	170	1712	9		
	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	12.06	13.40	1.20	3.46	13.64	4.53	22.18	12.81	3.23	4.20	23.83	6.34		
	F Test	<0.0001	<0.0001	0.0012	0.0524	<0.0001	0.0972	0.0075	<0.0001	0.1304	0.0003	0.0437	<0.0001		

Table 15B (cont.). New Mexico 2005 Sorghum x Sudangrass and Millet Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Harvest 3					RFV
		Moisture			Milk/ton	Milk/acre	
		Dry Forage	Green Forage	at harvest			
t/a	t/a	%	lb/t	lb/a			
Kelly Green Seeds, Inc.	4-S	1.38	7.57	82.0	3036	4177	113
Kelly Green Seeds, Inc.	4-S BMR	1.64	9.37	82.5	2890	4752	106
Seed Resource	SS 204 BMR	1.50	8.76	83.0	2922	4380	107
Seed Resource	SS 200 BMR	1.56	8.69	82.3	2878	4488	107
UAP Southwest	Danny Boy BMR	1.48	8.83	83.3	2763	4096	105
Triumph Seed Co. Inc.	Super Sweet 12	1.31	8.34	84.5	2834	3676	103
Richardson Seed	Sweeter-N-Honey II	1.40	8.07	82.5	2850	3993	106
Seed, Inc.	Ribbon Grazer	1.73	9.84	82.0	2848	4917	103
Seed Resource	Mil Hy 300	2.01	10.55	81.0	2874	5754	109
Seed Resource	Mil Hy 400	1.57	8.01	80.5	3000	4698	118
Seed Resource	Mil Hy 500	1.69	9.25	81.5	2830	4748	109
Kelly Green Seeds, Inc.	HY-PER-MIL (Pearl Millet	1.65	8.54	80.8	2775	4557	106
Kelly Green Seeds, Inc.	German Foxtail	.	.	.	.	.	.
	Trial Mean	1.57	8.82	82.1	2875	4520	108
	LSD	ns	ns	1.6	ns	1050	ns
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05
	CV	16.36	15.32	1.37	4.66	16.14	6.14
	F Test	0.0430	0.1707	0.0009	0.1976	0.0457	0.1605

Table 15C. New Mexico 2005 Sorghum x Sudangrass and Millet Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Harvest 1						Harvest 2					
		CP	ADF	NDF	Ash	TDN	NE _L	CP	ADF	NDF	Ash	TDN	NE _L
		%	%	%	%	%	Mcal/lb	%	%	%	%	%	Mcal/lb
Kelly Green Seeds, Inc.	4-S	16.29	31.9	54.8	8.54	61.8	0.64	18.17	34.1	55.4	9.81	60.6	0.62
Kelly Green Seeds, Inc.	4-S BMR	16.15	32.5	55.0	9.01	60.8	0.63	16.55	36.3	57.7	10.09	58.2	0.59
Seed Resource	SS 204 BMR	18.34	30.9	53.3	8.98	62.5	0.64	17.67	34.6	57.4	9.21	59.4	0.61
Seed Resource	SS 200 BMR	17.29	31.4	55.3	9.04	61.6	0.63	16.64	36.2	59.1	9.07	58.4	0.60
UAP Southwest	Danny Boy BMR	18.06	31.1	53.7	10.14	62.1	0.64	17.99	35.4	57.8	10.92	58.3	0.60
Triumph Seed Co. Inc.	Super Sweet 12	15.51	32.8	56.0	9.50	60.6	0.62	16.90	35.5	58.6	10.24	57.7	0.59
Richardson Seed	Sweeter-N-Honey II	16.16	32.2	54.4	9.78	60.7	0.62	16.88	36.2	56.8	10.07	58.4	0.59
Seed, Inc.	Ribbon Grazer	16.29	32.6	55.4	9.44	60.6	0.62	16.41	37.6	59.8	9.84	56.6	0.58
Seed Resource	Mil Hy 300	15.77	33.7	55.4	11.30	59.0	0.61	19.34	31.6	50.9	12.48	61.3	0.63
Seed Resource	Mil Hy 400	18.59	32.2	54.4	11.68	60.1	0.62	20.63	31.0	51.6	12.06	61.8	0.63
Seed Resource	Mil Hy 500	16.83	32.5	55.1	11.75	59.4	0.61	18.09	33.8	54.8	11.06	59.8	0.61
Kelly Green Seeds, Inc.	HY-PER-MIL (Pearl Millet)	17.11	32.2	54.5	11.37	59.8	0.61	18.58	33.7	53.7	12.69	59.6	0.61
Kelly Green Seeds, Inc.	German Foxtail	17.79	29.4	52.6	13.92	60.2	0.62	.	.	.	.	.	.
	Trial Mean	16.95	31.9	54.6	10.35	60.7	0.62	17.82	34.7	56.1	10.63	59.2	0.60
	LSD	1.94	2.4	ns	1.02	2.2	0.02	1.63	2.4	3.3	1.60	2.2	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
	CV	6.89	4.57	3.03	5.95	2.18	2.26	6.37	4.75	4.14	10.47	2.57	2.80
	F Test	0.0059	0.0407	0.2592	<0.0001	0.0210	0.0147	0.0001	<0.0001	<0.0001	0.0002	0.0009	0.0005

Table 15C (cont.). New Mexico 2005 Sorghum x Sudangrass and Millet Performance Test - Agricultural Science Center at Clovis

Results

Brand/Company Name	Hybrid/Variety Name	Harvest 3					
		CP	ADF	NDF	Ash	TDN	NE _L
		%	%	%	%	%	Mcal/lb
Kelly Green Seeds, Inc.	4-S	17.48	32.1	52.7	9.63	62.1	0.64
Kelly Green Seeds, Inc.	4-S BMR	16.39	34.0	55.0	8.97	60.4	0.62
Seed Resource	SS 204 BMR	17.62	33.3	54.9	8.96	60.8	0.62
Seed Resource	SS 200 BMR	17.09	33.6	54.9	9.35	60.2	0.62
UAP Southwest	Danny Boy BMR	17.27	33.8	55.3	10.74	58.6	0.60
Triumph Seed Co. Inc.	Super Sweet 12	16.39	34.5	56.3	9.66	59.6	0.61
Richardson Seed Seed, Inc.	Sweeter-N-Honey II Ribbon Grazer	17.00 16.22	33.5 33.8	55.1 56.4	9.87 8.75	59.8 59.8	0.61 0.61
Seed Resource	Mil Hy 300	15.33	32.9	53.9	9.74	60.1	0.62
Seed Resource	Mil Hy 400	18.16	30.4	51.9	11.27	61.4	0.63
Seed Resource	Mil Hy 500	17.59	32.9	54.0	11.07	59.3	0.61
Kelly Green Seeds, Inc.	HY-PER-MIL (Pearl Millet)	16.28	34.4	54.5	10.24	58.8	0.60
Kelly Green Seeds, Inc.	German Foxtail	.	.	.	.	.	.
	Trial Mean	16.90	33.3	54.6	9.85	60.1	0.61
	LSD	1.46	ns	ns	1.08	ns	ns
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05
	CV	5.99	4.93	4.38	7.60	2.87	3.24
	F Test	0.0228	0.0734	0.3113	0.0002	0.2280	0.2468

Table 16A. New Mexico 2005 Dryland Forage Sorghum/Sorghum x Sudangrass Performance Test - Agricultural Science Center at Tucumcari

Investigators: L.M. Lauriault, R.E. Kirksey, P.L. Cooksey, B. Griggs, 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: sandy loam Soil Depth: >60 in.</p>	<p>Management Practices: Previous Crop: sudangrass Planting Date: 20-May Harvest Date: 24-Oct</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>114 lb/a</td> <td>13-May</td> </tr> <tr> <td>P₂O₅</td> <td>52 lb/a</td> <td>13-May</td> </tr> <tr> <td colspan="3">Herbicides:</td> </tr> <tr> <td>Aatrex 80W</td> <td>2.5 lb/a</td> <td>18-May</td> </tr> <tr> <td colspan="3">Insecticides:</td> </tr> <tr> <td colspan="3">None</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	114 lb/a	13-May	P ₂ O ₅	52 lb/a	13-May	Herbicides:			Aatrex 80W	2.5 lb/a	18-May	Insecticides:			None			<p>Growing Conditions:</p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td></td><td></td><td></td></tr> <tr><td>February</td><td></td><td></td><td></td></tr> <tr><td>March</td><td></td><td></td><td></td></tr> <tr><td>April</td><td></td><td></td><td></td></tr> <tr><td>May</td><td>65.0</td><td>2.4</td><td></td></tr> <tr><td>June</td><td>77.0</td><td>0.1</td><td></td></tr> <tr><td>July</td><td>80.0</td><td>3.0</td><td></td></tr> <tr><td>August</td><td>76.0</td><td>4.5</td><td></td></tr> <tr><td>September</td><td>73.5</td><td>4.3</td><td></td></tr> <tr><td>October</td><td>60.0</td><td>0.6</td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> <tr><td colspan="2">Seasonal Precipitation:</td><td>11.9 in.</td><td></td></tr> <tr><td colspan="2">Total Irrigation:</td><td>0.0 in.</td><td></td></tr> <tr><td colspan="2">Date of Last Spring Frost:</td><td>1-Apr</td><td></td></tr> <tr><td colspan="2">Date of First Fall Frost:</td><td>20-Nov</td><td></td></tr> <tr><td colspan="2">Frost Free Period:</td><td>233 days</td><td></td></tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January				February				March				April				May	65.0	2.4		June	77.0	0.1		July	80.0	3.0		August	76.0	4.5		September	73.5	4.3		October	60.0	0.6		November				December				Seasonal Precipitation:		11.9 in.		Total Irrigation:		0.0 in.		Date of Last Spring Frost:		1-Apr		Date of First Fall Frost:		20-Nov		Frost Free Period:		233 days	
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<p>Test Design: Replications: 4 Plot Length: 20 ft. Rows per Plot: 8 Row Spacing: 7 in. Seeding Rate: 10 lb/a</p>																																																																																																		

**Table 16B. New Mexico 2005 Dryland Forage Sorghum/Sorghum x Sudangrass Performance Test -
Agricultural Science Center at Tucumcari**

Results

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	ADF	NDF	NDFD 48hr	TDN	Ash	Milk/ Ton	Milk/ Acre	RFV
		Dry Forage t/a	Green Forage t/a	at Harvest %									
Seed Resource	SS 204 BMR	3.29	9.15	64.2	8.00	37.0	63.6	63.1	55.8	6.80	2510	8229	88
Seed Resource	FS 555	3.18	10.55	69.9	8.70	35.4	60.6	65.1	57.2	8.30	2640	8421	94
Seed Resource	SS 206 BMR	3.03	8.00	62.1	7.40	36.9	62.6	63.9	55.7	7.80	2511	7589	90
Seed Resource	PS 210 BMR	2.87	9.60	70.1	9.40	35.5	60.9	67.6	57.3	8.70	2652	7623	94
Richardson Seed Seed, Inc.	Sweeter'n Honey II	2.67	7.86	65.9	8.00	36.5	61.6	62.6	56.3	6.60	2546	6802	91
Seed Resource	Ribbon Grazer	1.75	4.85	63.9	6.60	39.8	66.6	63.7	53.8	7.50	2374	4169	81
Seed Resource	BMR 106	1.51	4.27	65.2	8.20	35.7	60.0	65.9	57.3	7.80	2641	3962	95
	Trial Mean	2.61	7.76	65.9	8.00	36.7	62.2	64.5	56.2	7.60	2553	6685	90
	LSD	0.53	1.38	2.5	1.0	1.9	3.2	2.3	2.1	NS	153	1453	7
	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	13.78	12.00	2.59	8.18	3.56	3.47	2.44	2.49	14.57	4.04	14.63	5.08
	F Test	0.0001	0.0001	0.0001	0.0005	0.0020	0.0062	0.0040	0.0237	0.1361	0.0127	0.0001	0.0035

Appendix A

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

New Mexico 2005 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	Full Season:	
	SeedTec X3054	118
	SeedTec 7539 RR	116
Garst Seed Company 403 W. Illinois Greensburg, KS 67054 (620) 723-2454 Jeff Schaefer	Early Season:	
	8461	110
	8881RR	95
	Full Season: 8377YG1/RR	115
Grand Valley Hybrids 840 23 Road Grand Junction, CO 81505 (970) 243-3115 Mark Harris	Full Season:	
	25P00	117
	14B95	117
	14B69	117
	23P95	115
	13B53	115
Monsanto 4312 Carol Ave. Cortland, IL 60112 (815) 754-4809 Diane Freeman	Early Season:	
	Asgrow RX674RR2	109
	Dekalb DKC 58-80	108
	Dekalb DKC 55-82	105
	Dekalb DKC 52-40	102
	Full Season:	
	Asgrow RX752RR2/YG	112
	Dekalb DKC 69-71 (RR2/YGCB)	119
	Dekalb DKC 63-62 (RR2)	113
	Dekalb DKC 60-19 (RR2/YGCB)	110
Pioneer Hi-Bred International, Inc. 390 Union Blvd., Suite 500A Lakewood, CO 80228 (303) 716-3960 Brad Lance	Early Season:	
	Pioneer Brand 35Y62	106
	Pioneer Brand 35A30	104
	Pioneer Brand 36K67	102
	Full Season:	
	Pioneer Brand 33N56	112
	Pioneer Brand 34B99	109
Pioneer Brand 34A15	108	

New Mexico 2005 Grain Corn Hybrid Performance Test (continued)

Company/Brand Name	Hybrid/Variety Name	Relative Maturity (days)
UAP Southwest	Early Season:	
101 East Corporate Drive, Suite 180	Dyna-Gro DG 56P80	107
Lewisville, TX 75067	Dyna-Gro DG 56P24	107
(469) 261-8340	Dyna-Gro DG 55P41	102
John Griffin	Full Season:	
	Dyna-Gro CX04319	119
	Dyna-Gro CX04219	119
	Dyna-Gro DG 58K40	118
	Dyna-Gro DG 58K22	118
	Dyna-Gro CX04520	118
	Dyna-Gro CX03518	118
	Dyna-Gro CX03318	118
	Dyna-Gro DG 58P59	116
	Dyna-Gro DG 57P12	116
	Dyna-Gro CX05618	116
	Dyna-Gro CX05516	116
	Dyna-Gro CX05019	116
	Dyna-Gro CX05014	114
Warner Seeds, Inc.	Full Season:	
P.O. Box 1877	W4705B	119
Hereford, TX 79045	WXC1201	117
(806)-481-3810	W4676B	116
Jeff Sharrock	W4602B	115
	W4600B	114
Wilbur Ellis Co.	Early Season:	
NAPI Fertilizer	HB 9461	96
P.O. Box 5370	HB 9531	103
Farmington, NM 87499	NC+ 3534	106
	NC+ 2163	100

New Mexico 2005 Forage Corn Hybrid Performance Test

Company/Brand Name	Hybrid/Variety Name	Relative Maturity (days)
BASF Plant Sciences	BPS X326	115
4033 Kensington Place	BPS X266	113
Owensboro, KY 42301	BPS X274	113
(270) 683-1975	BPS X257	112
Tom Hayden	BPS X263	112
	BPS X251	110
	BPS X308	110
	BPS X248	109
	BPS X349	109
	BPS X336	109
	BPS X299	108
	BPS X295	106
	BPS X243	105
	BPS X245	105
Eureka Seeds, Inc.	SeedTec X3054	118
P.O. Box 1866	SeedTec 7634 RR	118
Woodland, CA 95776	SeedTec 7624 RR	118
(530) 661-6995		
Craig Sharp		
Garst Seed Company	8270 RR	118
403 W. Illinois		
Greensburg, KS 67054		
(620) 723-2454		
Jeff Schaefer		
Golden Acres Genetics	GA 2995 RR	120
P.O. Box 579	GA X-6501 Bt	120
Buchanan Dam, TX 78609	GA X-6511 LLHx	120
(512) 793-5205	GA 2841 RRB	117
James Allison		
Grand Valley Hybrids	26B57	120
840 23 Road	26R50	120
Grand Junction, CO 81505	25R96	119
(970) 243-3115	25B93	118
Mark Harris		
Monsanto	Asgrow RX940RR2	121
4312 Carol Ave.	Dekalb DKC 69-71 (RR2/YGCB)	119
Cortland, IL 60112	Dekalb DKC66-80 (RR2)	116
(815) 754-4809	Dekalb DKC64-81 (YGCB)	114
Diane Freeman	Dekalb DKC63-62 (RR2)	113

New Mexico 2005 Forage Corn Hybrid Performance Test (continued)

Company/Brand Name	Hybrid/Variety Name	Relative Maturity (days)
NMSU-ASC Clovis 2346 SR 288 Clovis, NM 88101 (505)985-2292 Mark Marsalis	NC+ 5423 B	114
Triumph Seed Co., Inc. P.O. Box 1050 Ralls, TX 79357 (806)530-4789 Ben Benton	1866 Bt 1416 Bt	117 113
UAP Southwest 101 East Corporate Drive, Suite 180 Lewisville, TX 75067 (469) 261-8340 John Griffin	Dyna-Gro CX04219 Dyna-Gro CX04319 Dyna-Gro DG 58K40 Dyna-Gro DG 58K22 Dyna-Gro CX04520 Dyna-Gro CX03518 Dyna-Gro CX03318 Dyna-Gro DG 58P59 Dyna-Gro DG 57P12 Dyna-Gro CX05618 Dyna-Gro CX05516 Dyna-Gro CX05019 Dyna-Gro CX05014 Dyna-Gro 56P80 Dyna-Gro 56P24 Dyna-Gro DG 55P41	119 119 118 118 118 118 118 116 116 116 116 116 116 114 107 107 102
Warner Seeds, Inc. P.O. Box 1877 Hereford, TX 79045 (806)-481-3810 Jeff Sharrock	W4705B W4675BR WXC1201 W4602B	119 118 117 115
Wilbur Ellis Co. P.O. Box 552 Farwell, TX 79325 (806) 481-3346 Scott Terry	HB 9681 HB 9671 RR HB 9661 YGCB NC+ 7401 NC+ 7117	118 117 116 119 119
Wilbur Ellis Co. NAPI Fertilizer P.O. Box 5370 Farmington, NM 87499	NC+ 7401	119

New Mexico 2005 Forage Sorghum Hybrid Performance Test

Company/Brand Name	Hybrid/Variety Name	Maturity Group*	Brown Midrib
Garst Seed Co. 403 W. Illinois Greensburg, KS 67054 (620) 723-2454 Jeff Schaefer	Garst 325 Hi-Energy II	ML	No
Kelly Green Seeds, Inc. P.O. Box 916 Farwell, TX 79325 (806) 481-3810 Jeff Sharrock	KGS 105 F104	L ML	No No
Seed Resource P.O. Box 326 Tulia, TX 79088 (806) 995-3882 Chick Childress	BMR 106 FS 515 HQ	M M	Yes No
UAP Southwest 101 East Corporate Drive, Suite 180 Lewisville, TX 75067 (469) 261-8340 John Griffin	Dyna-Gro FX05100 Dyna-Gro FX04012 Dyna-Gro 710F	M M	Yes Yes

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

New Mexico 2005 Sorghum X Sudangrass/ Millet Hybrid Performance Test

Company/Brand Name	Hybrid/Variety Name	Maturity Group*	Brown Midrib
Kelly Green Seeds, Inc. P.O. Box 916 Farwell, TX 79325 (806) 481-3810 Jeff Sharrock	4-S 4-S BMR German Foxtail HY-PER-MIL (Pearl Millet)	ME ME	No Yes
Richardson Seed 3095 Co. Rd 26 Vega, TX 79092 (806)267-2523 Vince Barkley	Sweeter-n-Honey II	L	No
Seed Inc. P.O. Box 60 Sunray, TX 79086 (800)687-2891 Ricky Rutherton	Ribbon Grazer	M	No
Seed Resource P.O. Box 326 Tulia, TX 79088 (806) 995-3882 Chick Childress	SS 204 BMR SS 200 BMR Mil Hy 300 Mil Hy 400 Mil Hy 500	M M	Yes Yes
Triumph Seed Company, Inc. P.O. Box 1050 Ralls, TX 79357 (806)530-4789 Ben Benton	SuperSweet 12	L	No
UAP Southwest 101 East Corporate Drive, Suite 180 Lewisville, TX 75067 (469) 261-8340 John Griffin	Danny Boy BMR	M	Yes

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

**New Mexico 2005 Forage Sorghum/Sorghum X Sudangrass Hybrid
Performance Test**

Company/Brand Name	Hybrid/Variety Name	Maturity Group*	Brown Midrib
Richardson Seed 3095 Co. Rd. 26 Vega, TX 79092 (806) 267-2523 Vince Barkley	Sweeter-n-Honey II	L	No
Seed, Inc. P.O. Box 60 Sunray, TX 79086 (800) 687-2891 Ricky Rutherton	Ribbon Grazer	M	No
Seed Resource P.O. Box 326 Tulia, TX 79088 (806) 995-3882 Chick Childress	SS 204 BMR SS 206 BMR BMR 106 FS 555 PS 210 BMR	M M M L L	Yes Yes Yes No Yes

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

Appendix B
Glossary of Terms

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

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

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

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

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

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

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

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

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

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

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

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.