

# **New Mexico** **2021 Corn and Sorghum** Performance Tests



**College of Agricultural, Consumer and Environmental Sciences**  
Agricultural Experiment Station | Cooperative Extension Service

**New Mexico  
2021  
Corn and Sorghum Performance Tests**

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

Department of Extension Plant Sciences

and

Department of Plant and Environmental Sciences

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

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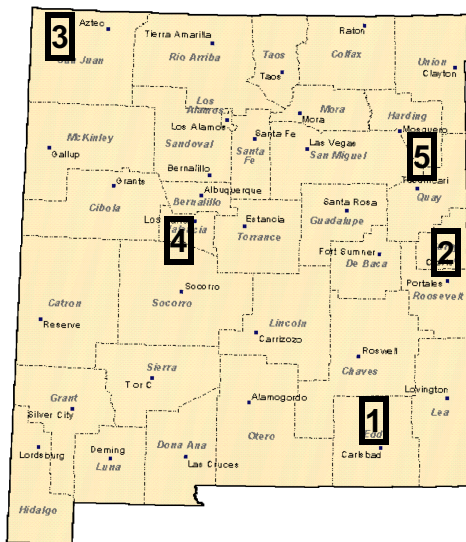
# New Mexico 2021 Corn and Sorghum Performance Tests

## INTRODUCTION

Performance tests for grain corn, grain sorghum, forage corn, forage sorghum and sorghum sudangrass were conducted at the Agricultural Science Centers at Artesia, Clovis, Farmington, and Tucumcari New Mexico in 2021 (Figure 1). This report contains information from all Agricultural Science Center corn and sorghum tests; however, it is possible that not all locations contain every test listed above.

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

Figure 1. Corn and sorghum testing locations.



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

Figure 2. Climate zones in New Mexico.

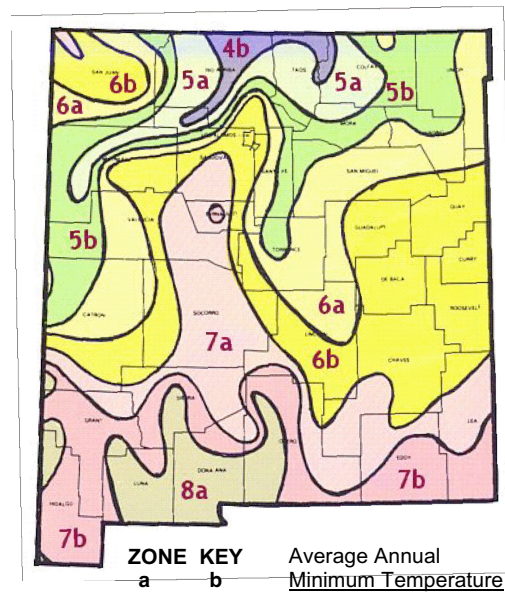


Table 1. Historical average monthly precipitation (inches) and temperatures (°F) for cooperating agricultural science centers.					
	Artesia	Clovis	Farmington	Los Lunas	Tucumcari
<b>Precipitation (inches)</b>					
January	0.39	0.36	0.56	0.38	0.37
February	0.41	0.39	0.55	0.41	0.46
March	0.41	0.70	0.66	0.47	0.74
April	0.61	0.80	0.62	0.49	1.09
May	1.06	1.98	0.62	0.46	1.96
June	1.39	2.37	0.24	0.56	1.87
July	1.77	2.87	0.86	1.37	2.62
August	1.68	3.07	1.07	1.65	2.69
September	1.82	1.92	1.05	1.16	1.52
October	1.21	1.79	0.86	1.05	1.30
November	0.54	0.52	0.69	0.49	0.65
December	0.50	0.45	0.53	0.52	0.59
Total	11.63	17.11	8.31	8.95	15.91
<b>Average Temperature (°F)</b>					
January	40.5	37.6	30.4	34.5	38.5
February	45.3	41.3	36.2	40.2	42.3
March	52.0	48.0	44.0	47.3	49.4
April	60.5	56.1	51.2	54.9	57.7
May	69.2	64.6	60.0	63.4	66.3
June	77.7	74.0	70.5	72.7	75.8
July	79.9	76.5	75.7	77.0	79.2
August	78.5	74.8	73.4	74.8	77.4
September	71.7	68.6	66.1	67.5	70.8
October	61.0	58.2	53.8	55.9	59.7
November	48.8	46.4	41.0	43.5	47.6
December	40.8	38.8	31.3	35.1	39.4
Average	60.4	57.0	52.8	55.7	58.8
Source: Western Region Climate Center: <a href="http://www.wrcc.dri.edu/summary/climsmnm.html">http://www.wrcc.dri.edu/summary/climsmnm.html</a>					

## 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 2021 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 Los Lunas, 1036 Miller Rd, Los Lunas, NM 87031, (505) 865-7340, <http://loslunassc.nmsu.edu/>. Entry forms for the 2022 Corn and Sorghum Performance Tests will be mailed to seed companies in February 2022. Additional 2022 entry forms can be obtained from the address above.

## TEST PROCEDURES

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

All of the Agricultural Science Center performance tests were replicated randomized complete block designs (RBD). Where appropriate, statistical analyses were used to calculate measures of least significant difference (LSD), coefficient of variation (CV) and F test values. All LSD's are reported at the 95% probability level. If the F test value is greater than 0.05 the LSD is not used. 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 data or methodology. CV's of 10 to 20 are indicators of normal variability for grain and forage tests.

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

Dry and green (fresh) 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 (125-150°F) for determination of moisture content. Sub-samples of the dried material from all locations were submitted to an NFTA-certified forage testing laboratory for nutrient composition analysis using near infrared reflectance spectroscopy (NIRS). For several of these trials, milk production estimates



were calculated using the University of Wisconsin Milk2000 and Milk2006 spreadsheet programs.

## RESULTS

Results for the 2021 corn and sorghum variety tests are shown in **Tables 2-16** below. Test procedures for each test are presented in tables designated with an 'A' at each location. Results are presented in tables designated with 'B' or 'C' suffixes. Within tables, hybrids and varieties are ranked according to grain yield or total dry forage yield. A glossary of terms used in the tables is presented in Appendix B.

**A grain sorghum test was planted, but not harvested at Tucumcari. It did not produce grain due to low precipitation during the heading and grain filling period and despite heavy rain in July that produced significant early vegetative growth.**

**In addition, lack of irrigation supply combined with a lack of timely rainfall, led to poor performance of forage trials at Tucumcari, and hence, low yields and high CVs for those trials.**

**Table 2A. New Mexico 2021 Grain Corn Performance Test - Agricultural Science Center at Clovis**

Investigators: A. Mesbah, A. Scott, and B. Niece

**Test Description**

<p><b>Location:</b></p> <p>County/Area: Curry          Longitude: -103.22          Latitude: 34.60          Elevation: 4435 ft.          Soil Name: Olton          Soil Texture: clay loam          Soil Depth: &gt;60 in.</p>	<p><b>Management Practices:</b></p> <p>Previous Crop: fallow          Planting Date: 20-May          Harvest Date: 28-Oct</p> <p><b>Production Inputs</b></p> <table border="1"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Fertilizer:</b></td> </tr> <tr> <td>Nitrogen</td> <td>15 lb/ac</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>70 lb/ac</td> <td>6-Apr</td> </tr> <tr> <td>Zn</td> <td>4 qt/ac</td> <td>6-Apr</td> </tr> <tr> <td>Phos</td> <td>65 lb/ac</td> <td>6-Apr</td> </tr> <tr> <td>S</td> <td>22 lb/ac</td> <td>6-Apr</td> </tr> <tr> <td>Nitrogen</td> <td>91.2 lb/ac</td> <td>21-May</td> </tr> <tr> <td>Sulfur</td> <td>16.5 lb/ac</td> <td>21-May</td> </tr> <tr> <td colspan="3"><b>Herbicides:</b></td> </tr> <tr> <td>Roundup PowerMax</td> <td>1 qt/ac</td> <td>7-Apr</td> </tr> <tr> <td>DiFlex</td> <td>8 oz/ac</td> <td>7-Apr</td> </tr> <tr> <td>Panther</td> <td>20 oz/ac</td> <td>7-Apr</td> </tr> <tr> <td>Roundup PowerMax</td> <td>1 qt/ac</td> <td>21-May</td> </tr> <tr> <td>Atrazine</td> <td>2 pt/ac</td> <td>21-May</td> </tr> <tr> <td>Balance Flex</td> <td>2 oz/ac</td> <td>21-May</td> </tr> <tr> <td>Warrant</td> <td>2 qt/ac</td> <td>21-May</td> </tr> <tr> <td>DiFlex</td> <td>8 oz/ac</td> <td>23-Jun</td> </tr> <tr> <td>Warrant</td> <td>2 qt/ac</td> <td>23-Jun</td> </tr> <tr> <td colspan="3"><b>Insecticides:</b></td> </tr> <tr> <td>Prevathon</td> <td>14 oz/ac</td> <td>23-Jun</td> </tr> <tr> <td>Oberon</td> <td>8 oz/ac</td> <td>23-Jun</td> </tr> <tr> <td>Onager</td> <td>16 oz/ac</td> <td>5-Aug</td> </tr> <tr> <td>Prevathon</td> <td>20 oz/ac</td> <td>5-Aug</td> </tr> </tbody> </table>		Rate	Date	<b>Fertilizer:</b>			Nitrogen	15 lb/ac	carryover	Nitrogen	70 lb/ac	6-Apr	Zn	4 qt/ac	6-Apr	Phos	65 lb/ac	6-Apr	S	22 lb/ac	6-Apr	Nitrogen	91.2 lb/ac	21-May	Sulfur	16.5 lb/ac	21-May	<b>Herbicides:</b>			Roundup PowerMax	1 qt/ac	7-Apr	DiFlex	8 oz/ac	7-Apr	Panther	20 oz/ac	7-Apr	Roundup PowerMax	1 qt/ac	21-May	Atrazine	2 pt/ac	21-May	Balance Flex	2 oz/ac	21-May	Warrant	2 qt/ac	21-May	DiFlex	8 oz/ac	23-Jun	Warrant	2 qt/ac	23-Jun	<b>Insecticides:</b>			Prevathon	14 oz/ac	23-Jun	Oberon	8 oz/ac	23-Jun	Onager	16 oz/ac	5-Aug	Prevathon	20 oz/ac	5-Aug	<p><b>Growing Conditions:</b></p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>36.4</td><td>0.17</td><td></td></tr> <tr><td>February</td><td>35.4</td><td>0.06</td><td></td></tr> <tr><td>March</td><td>47.3</td><td>0.06</td><td></td></tr> <tr><td>April</td><td>53.6</td><td>0.22</td><td>7.50</td></tr> <tr><td>May</td><td>64.1</td><td>1.17</td><td>3.30</td></tr> <tr><td>June</td><td>74.9</td><td>3.95</td><td>2.20</td></tr> <tr><td>July</td><td>74.0</td><td>5.59</td><td>4.10</td></tr> <tr><td>August</td><td>74.0</td><td>2.24</td><td>4.10</td></tr> <tr><td>September</td><td>73.0</td><td>0.86</td><td>3.10</td></tr> <tr><td>October 1-28</td><td>66.0</td><td>0.00</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>24.3 in.</td> <td></td> </tr> <tr> <td>Total Irrigation:</td> <td></td> <td>14.0 in.</td> <td></td> </tr> <tr> <td>Date of Last Spring Frost:</td> <td></td> <td>22-Apr</td> <td></td> </tr> <tr> <td>Date of First Fall Frost:</td> <td></td> <td>20-Oct</td> <td></td> </tr> <tr> <td>Frost Free Period:</td> <td></td> <td>181 days</td> <td></td> </tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January	36.4	0.17		February	35.4	0.06		March	47.3	0.06		April	53.6	0.22	7.50	May	64.1	1.17	3.30	June	74.9	3.95	2.20	July	74.0	5.59	4.10	August	74.0	2.24	4.10	September	73.0	0.86	3.10	October 1-28	66.0	0.00		November				December				Seasonal Precipitation:		24.3 in.		Total Irrigation:		14.0 in.		Date of Last Spring Frost:		22-Apr		Date of First Fall Frost:		20-Oct		Frost Free Period:		181 days	
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<p><b>Test Design:</b></p> <p>Replications: 3          Plot Length: 20 ft.          Rows per Plot: 2          Row Spacing: 30 in.          Seeding Rate: 27,000 seed/a</p>																																																																																																																																																		

**Table 2B. New Mexico 2021 Grain Corn Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid/Variety Name	Relative Maturity	Grain Yield bu/a	Grain Yield lb/a	Moisture	Test Weight lb/bu
					at Harvest %	
Dyna-Gro Seed	D52DC82	112	232.8	13037	11.3	53.8
Dyna-Gro Seed	D57TC29	117	229.8	12869	12.2	60.0
Dyna-Gro Seed	D54SS34	114	225.6	12635	11.7	63.2
Dyna-Gro Seed	D54SS74	114	223.4	12507	11.4	61.2
Dyna-Gro Seed	D55VC80	115	219.2	12274	11.7	59.8
Dyna-Gro Seed	D57VC17	117	218.1	12211	12.2	62.8
Dyna-Gro Seed	D54VC14	114	217.9	12204	11.4	61.4
Dyna-Gro Seed	D58VC65	118	210.8	11805	11.7	62.8
Dyna-Gro Seed	D53TC19	113	207.7	11628	11.2	61.1
	Trial Mean		220.6	12352	11.6	60.7
	LSD (P > 0.05)		NS	NS	0.4	NS
	CV		6.8	6.8	2.0	5.3
	F Test		0.5367	0.5363	0.0005	0.0674

**Table 3A. New Mexico 2021 Early Season Grain Corn Performance Test - Agricultural Science Center at Farmington**

**Investigators:** Djaman, K. (PI), M.M. West, and D. Begay

**Test Description**

<b>Location:</b>	<b>Management Practices:</b>	<b>Growing Conditions:</b>																																																																																																																					
County/Area: San Juan Longitude: -108.3061 Latitude: 36.6812 Elevation: 5,640 ft. Soil Name: Wall Soil Texture: sandy loam Soil Depth: > 75 in.	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**Table 3B. New Mexico 2021 Early Season Grain Corn Performance Test - Agricultural Science Center at Farmington**

**Results**

<b>Brand/Company Name</b>	<b>Hybrid/Variety Name</b>	<b>Grain Yield</b>	<b>Moisture at Harvest</b>	<b>Test Weight</b>	<b>Plant Height</b>	<b>Ear Height</b>	<b>Silk Date</b>	<b>Plant Population</b>
		bu/a	%	lb/bu	in	in		
Dyna-Gro Seed	D45TC55	334.5	13.6	58.5	110	46	26-Jul	34,464
Dyna-Gro Seed	D43SS81	329.4	13.6	58.7	106	43	26-Jul	37,861
Dyna-Gro Seed	D51VC41	318.6	13.8	58.8	105	43	27-Jul	36,917
Dyna-Gro Seed	D50VC09	316.3	13.7	59.0	108	45	27-Jul	37,026
Dyna-Gro Seed	D48QZ22	312.1	14.6	57.3	104	41	28-Jul	34,521
Dyna-Gro Seed	D49SS70	297.3	13.4	59.0	105	45	26-Jul	38,405
Dyna-Gro Seed	D44SS54	295.1	14.1	59.0	110	47	27-Jul	37,026
Dyna-Gro Seed	D50VC78	283.8	13.6	58.9	104	44	26-Jul	35,284
Dyna-Gro Seed	D51SS61	283.8	14.0	58.6	104	43	27-Jul	36,807
	Trial Mean	307.9	13.8	58.6	106	44	27-Jul	36,479
	LSD (0.05)	NS	NS	1.0	NS	NS		NS
	CV %	10.8	4.8	1.1	4.3	7.8		7.9
	F Test	0.2980	0.3349	0.0297	0.3434	0.3023		0.4953

**Table 4A. New Mexico 2021 Full Season Grain Corn Performance Test - Agricultural Science Center at Farmington**

**Investigators:** Djaman, K. (PI), M.M. West, and D. Begay

**Test Description**

<b>Location:</b>	<b>Management Practices:</b>	<b>Growing Conditions:</b>																																																																																											
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<b>Test Design:</b> Replications: 4 Plot Length: 20 ft. Rows per Plot: 4 Row Spacing: 30 in.  Seeding Rate: 36,590 seeds/a Harvest area: 2 row 20 feet long																																																																																													

**Table 4B. New Mexico 2021 Full Season Grain Corn Performance Test - Agricultural Science Center at Farmington**

**Results**

Brand/Company Name	Hybrid/Variety Name	Grain Yield bu/a	Moisture	Test Weight lb/bu	Plant Height in	Ear Height in	Silk Date	Plant Population
			at Harvest %					
Dyna-Gro Seed	D54VC14	347.5	15.6	57.7	112	50	29-Jul	36,699
Dyna-Gro Seed	D52DC82	341.2	15.8	57.1	112	49	28-Jul	34,957
Dyna-Gro Seed	D54SS34	337.0	15.6	58.9	108	48	29-Jul	35,066
Dyna-Gro Seed	D55VC80	331.9	15.8	59.1	112	48	29-Jul	37,135
Dyna-Gro Seed	D57TC29	317.1	16.0	58.3	110	48	29-Jul	37,462
Dyna-Gro Seed	D57VC17	311.3	16.1	57.5	113	50	29-Jul	34,630
Dyna-Gro Seed	D58VC65	310.3	15.2	58.8	106	47	28-Jul	36,808
Dyna-Gro Seed	D54SS74	293.4	16.1	58.5	106	46	29-Jul	37,679
Dyna-Gro Seed	D53TC19	275.6	16.2	59.0	114	50	28-Jul	33,922
	Trial Mean	318.4	15.8	58.3	110.3	48.4	28-Jul	36,040
	LSD (0.05)	NS	NS	NS	NS	NS		NS
	CV %	12.5	5.8	1.7	7.3	10.4		12.3
	F Test	0.2412	0.8553	0.0890	0.8024	0.8897		0.9124

**Table 5A. New Mexico 2021 Grain Corn Performance Test - Rex E. Kirksey Agricultural Science Center at Tucumcari**

**Investigators:** L.M. Lauriault, G. Martinez, J. Box, P.A. Cooksey, J. Jennings, and S. Jennings

**Test Description**

<b>Location:</b>	<b>Management Practices:</b>	<b>Growing Conditions:</b>																																																																																																
County/Area: Quay Longitude: -103.68 Latitude: 35.20 Elevation: 4086 ft. Soil Name: Canez Soil Texture: Fine sandy loam Soil Depth: >60 in.	Previous Crop: Fallow Planting Date: 28-Jun Harvest Date: 20-Oct  <hr/> <b>Production Inputs</b> <hr/> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="width: 10%; text-align: center;">Rate</th> <th style="width: 10%; text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Fertilizer:</b></td> </tr> <tr> <td style="padding-left: 40px;">Nitrogen</td> <td style="text-align: center;">0 lb/a</td> <td></td> </tr> <tr> <td style="padding-left: 40px;">P2O5</td> <td style="text-align: center;">0 lb/a</td> <td></td> </tr> <tr> <td colspan="3"><b>Herbicides:</b></td> </tr> <tr> <td style="padding-left: 40px;">Roundup Power Max</td> <td style="text-align: center;">3% vol/vol</td> <td style="text-align: center;">1-Jul</td> </tr> <tr> <td style="padding-left: 40px;">Brimstone</td> <td style="text-align: center;">4 pts/A</td> <td style="text-align: center;">1-Jul</td> </tr> <tr> <td style="padding-left: 40px;">Bicep Lite II Magnum</td> <td style="text-align: center;">2 qt/A</td> <td style="text-align: center;">6-Jul</td> </tr> </tbody> </table>		Rate	Date	<b>Fertilizer:</b>			Nitrogen	0 lb/a		P2O5	0 lb/a		<b>Herbicides:</b>			Roundup Power Max	3% vol/vol	1-Jul	Brimstone	4 pts/A	1-Jul	Bicep Lite II Magnum	2 qt/A	6-Jul	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%; text-align: center;">Average Temp. °F</th> <th style="width: 20%; text-align: center;">Precip. in.</th> <th style="width: 30%; text-align: center;">Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td style="text-align: center;">39</td><td style="text-align: center;">0.18</td><td></td></tr> <tr><td>February</td><td style="text-align: center;">36</td><td style="text-align: center;">0.10</td><td></td></tr> <tr><td>March</td><td style="text-align: center;">50</td><td style="text-align: center;">1.52</td><td></td></tr> <tr><td>April</td><td style="text-align: center;">57</td><td style="text-align: center;">0.13</td><td></td></tr> <tr><td>May</td><td style="text-align: center;">67</td><td style="text-align: center;">2.12</td><td></td></tr> <tr><td>June</td><td style="text-align: center;">78</td><td style="text-align: center;">1.22</td><td style="text-align: center;">0.00</td></tr> <tr><td>July</td><td style="text-align: center;">77</td><td style="text-align: center;">6.51</td><td style="text-align: center;">0.00</td></tr> <tr><td>August</td><td style="text-align: center;">79</td><td style="text-align: center;">2.19</td><td style="text-align: center;">0.00</td></tr> <tr><td>September</td><td style="text-align: center;">75</td><td style="text-align: center;">0.55</td><td style="text-align: center;">0.00</td></tr> <tr><td>October</td><td style="text-align: center;">62</td><td style="text-align: center;">0.98</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 style="text-align: center;">13.6 in.</td><td></td></tr> <tr><td colspan="2">Total Seasonal Irrigation</td><td style="text-align: center;">0.0 in.</td><td></td></tr> <tr><td colspan="2">Date of Last Spring Frost:</td><td colspan="2" style="text-align: center;">21-Apr</td></tr> <tr><td colspan="2">Date of First Fall Frost:</td><td colspan="2" style="text-align: center;">12-Nov</td></tr> <tr><td colspan="2">Frost Free Period:</td><td colspan="2" style="text-align: center;">205 days</td></tr> </tbody> </table>		Average Temp. °F	Precip. in.	Irrigation in.	January	39	0.18		February	36	0.10		March	50	1.52		April	57	0.13		May	67	2.12		June	78	1.22	0.00	July	77	6.51	0.00	August	79	2.19	0.00	September	75	0.55	0.00	October	62	0.98		November				December				Seasonal Precipitation		13.6 in.		Total Seasonal Irrigation		0.0 in.		Date of Last Spring Frost:		21-Apr		Date of First Fall Frost:		12-Nov		Frost Free Period:		205 days	
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**Table 5B. New Mexico 2021 Grain Corn Performance Test - Rex E. Kirksey Agricultural Science Center at Tucumcari**

**Results**

<b>Brand/Company Name</b>	<b>Hybrid/Variety Name</b>	<b>Relative Maturity</b>	<b>Grain Yield Adjusted to 15.5% Moisture</b> bu/ac	<b>Moisture at Evaluation</b> %	<b>Test wt.</b> lb/bu
Dyna-Gro Seed	D58VC65	118	15.7	27.9	52.0
Dyna-Gro Seed	D51SS61	111	13.7	28.5	51.4
Dyna-Gro Seed	D45TC55	105	11.7	23.9	51.9
Dyna-Gro Seed	D48QZ22	108	11.6	24.8	54.9
Dyna-Gro Seed	D51VC41	111	10.4	20.1	51.3
Dyna-Gro Seed	D53TC19	113	10.3	23.1	58.1
Dyna-Gro Seed	D50VC09	109	10.1	20.0	48.6
Dyna-Gro Seed	D52DC82	112	8.7	27.5	51.4
Dyna-Gro Seed	D43SS81	103	6.4	17.3	51.9
Dyna-Gro Seed	D49SS70	109	6.1	24.6	51.6
Dyna-Gro Seed	D57TC29	117	6.1	28.4	53.9
Dyna-Gro Seed	D50VC78	110	5.6	23.0	52.6
Dyna-Gro Seed	D44SS54	104	2.4	29.2	49.5
Dyna-Gro Seed	D54SS74	114	1.9	29.8	47.1
Dyna-Gro Seed	D55VC80	115	1.1	25.9	51.5
Dyna-Gro Seed	D57VC17	117	0.7	45.2	41.6
		Trial Mean	7.5	24.9	51.9
		LSD P < 0.05	NS	6.8	5.2
		CV	63.5	8.0	3.6
		F Test	0.5818	0.0003	0.0007

**Table 6A. New Mexico 2021 Irrigated Forage Corn Performance Test - Agricultural Science Center at Artesia**

**Investigators:** R. Flynn, R. Pacheco, M. Lopez, S. Bustillos, and C. Hill

**Test Description**

<p><b>Location:</b></p> <p>County/Area: Eddy          Longitude: -104.22          Latitude: 32.45          Elevation: 3356 ft.          Soil Name: Pima          Soil Texture: silt loam          Soil Depth: 32 in.</p> <p><b>Test Design:</b></p> <p>Replications: 4          Plot Length: 20 ft.          Rows per Plot: 2          Row Spacing: 40 in.</p> <p>Seeding Rate: 32,000 seed/a</p>	<p><b>Management Practices:</b></p> <p>Previous Crop: alfalfa          Planting Date: 12-May          Harvest Date: 24-Aug</p> <p><b>Production Inputs</b></p> <table border="1"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Fertilizer:</b></td> </tr> <tr> <td>Nitrogen</td> <td>20 lb/a</td> <td>25-Apr</td> </tr> <tr> <td>Nitrogen</td> <td>225 lb/a</td> <td>23-Jul</td> </tr> <tr> <td>P2O5</td> <td>96 lb/a</td> <td>25-Apr</td> </tr> </tbody> </table> <p><b>Herbicides:</b></p> <table border="1"> <tbody> <tr> <td>Rifle</td> <td>16 oz/a</td> <td>13-Jun</td> </tr> </tbody> </table> <p><b>Insecticides:</b></p> <p>None</p>		Rate	Date	<b>Fertilizer:</b>			Nitrogen	20 lb/a	25-Apr	Nitrogen	225 lb/a	23-Jul	P2O5	96 lb/a	25-Apr	Rifle	16 oz/a	13-Jun	<p><b>Growing Conditions:</b></p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>40.0</td><td>0.25</td><td></td></tr> <tr><td>February</td><td>41.4</td><td>0.27</td><td></td></tr> <tr><td>March</td><td>52.0</td><td>0.03</td><td></td></tr> <tr><td>April</td><td>58.2</td><td>1.30</td><td>1.55</td></tr> <tr><td>May</td><td>70.9</td><td>1.00</td><td>4.12</td></tr> <tr><td>June</td><td>80.0</td><td>4.31</td><td>8.74</td></tr> <tr><td>July</td><td>78.2</td><td>1.71</td><td>9.93</td></tr> <tr><td>August</td><td>77.8</td><td>1.91</td><td>3.61</td></tr> <tr><td>September</td><td>74.4</td><td>0.39</td><td></td></tr> <tr><td>October</td><td>62.1</td><td>0.92</td><td></td></tr> <tr><td>November</td><td>51.2</td><td>0.09</td><td></td></tr> <tr><td>December</td><td>50.0</td><td>0.00</td><td></td></tr> </tbody> </table> <p>Seasonal Precipitation 10.23 in.          Total Irrigation 27.94 in.</p> <p>Date of Last Spring Frost: 1-Apr          Date of First Fall Frost: 29-Oct          Frost Free Period: 211 days</p>		Average Temp. °F	Precip. in.	Irrigation in.	January	40.0	0.25		February	41.4	0.27		March	52.0	0.03		April	58.2	1.30	1.55	May	70.9	1.00	4.12	June	80.0	4.31	8.74	July	78.2	1.71	9.93	August	77.8	1.91	3.61	September	74.4	0.39		October	62.1	0.92		November	51.2	0.09		December	50.0	0.00	
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**Table 6B. New Mexico 2021 Irrigated Forage Corn Performance Test - Agricultural Science Center at Artesia**

**Results**

Brand/Company Name	Hybrid/Variety Name	Moisture			CP	ADF	NDF	Ash	TDN	NE <sub>i</sub>	NFC	RFV
		Dry Forage	Green Forage	at Harvest								
		t/a	t/a	%	%	%	%	%	Mcal/lb	%		
Dyna-Gro Seed	D57VC17	10.8	28.2	61.7	9.2	21.5	38.7	3.9	72.8	0.778	46.6	174
Bayer/Dekalb	DKC70-64	10.8	30.2	64.4	9.1	24.0	40.7	4.5	71.1	0.747	44.2	161
Wilbur-Ellis/Integra	Integra 6880 VT2P	10.3	28.0	63.2	7.6	24.8	41.5	3.5	70.5	0.737	45.7	156
Wilbur-Ellis/Integra	Integra CX001117 TRE	10.1	27.3	63.1	8.7	21.1	37.1	3.9	73.1	0.783	48.6	182
Bayer/Dekalb	DKC67-66	10.0	28.4	65.0	9.0	22.1	39.0	3.9	72.4	0.770	46.6	171
Dyna-Gro Seed	D55VC80	9.7	27.7	64.8	8.4	24.8	42.3	3.9	70.4	0.736	44.1	153
Wilbur-Ellis/Integra	Integra CX001118 VT2P	9.6	29.4	67.3	8.8	23.8	40.7	4.3	71.2	0.750	45.0	161
Wilbur-Ellis/Integra	Integra 9678 VT2P	9.4	26.3	63.9	9.2	23.4	40.4	4.2	71.4	0.754	44.6	163
Dyna-Gro Seed	D53TC19	9.3	25.7	63.7	8.8	23.1	39.9	4.2	71.7	0.758	45.6	166
Bayer/Dekalb	DKC61-80	9.3	25.6	63.6	8.2	25.3	42.2	4.4	70.1	0.730	43.9	153
Dyna-Gro Seed	D57TC29	9.1	24.5	62.6	8.2	22.9	39.6	3.8	71.8	0.760	46.7	168
Wilbur-Ellis/Integra	Integra 6695 TRE	9.0	25.6	64.8	9.3	21.1	37.3	4.1	73.1	0.782	47.7	181
Dyna-Gro Seed	D52DC82	9.0	24.0	62.4	7.7	22.4	37.9	3.9	72.1	0.766	49.2	176
Dyna-Gro Seed	D58VC65	9.0	25.9	65.5	7.9	24.2	41.0	3.6	70.9	0.744	46.0	161
Wilbur-Ellis/Integra	Integra 6621 SS	8.9	26.4	66.4	9.4	23.7	40.9	4.6	71.2	0.750	43.6	161
Wilbur-Ellis/Integra	Integra 6720 SS	8.7	23.8	63.4	8.8	22.6	38.9	4.2	72.0	0.764	46.6	171
Bayer/Dekalb	DKC64-44	8.7	23.4	62.8	8.4	22.5	38.8	3.8	72.1	0.765	47.5	172
Wilbur-Ellis/Integra	Integra 6811 VT2P	8.7	22.3	60.9	7.6	24.9	41.6	3.7	70.4	0.735	45.6	157
Dyna-Gro Seed	D58QC72	8.6	24.9	65.6	8.1	25.3	41.3	4.3	70.1	0.730	45.0	156
Wilbur-Ellis/Integra	Integra 6891 3110	8.6	23.0	63.0	7.2	27.5	44.0	4.1	68.6	0.703	43.7	143
Dyna-Gro Seed	D58VC90	8.1	25.2	68.0	7.7	25.3	41.6	4.1	70.1	0.730	45.1	156
Wilbur-Ellis/Integra	Integra 6641 SS	7.9	22.7	65.4	8.3	23.7	39.6	4.1	71.3	0.751	46.7	166
Dyna-Gro Seed	D54VC14	7.7	20.6	62.4	6.9	24.7	40.6	3.7	70.5	0.738	47.4	160
Wilbur-Ellis/Integra	Integra 6709 VT2P	7.4	27.8	72.3	7.3	22.6	37.5	4.1	72.0	0.763	49.7	177
	Trial Mean	9.1	25.7	64.4	8.3	23.6	40.1	4.0	71.3	0.751	46.1	164
	LSD (P < 0.05)	NS	4.8	NS	NS	NS	NS	NS	NS	NS	NS	NS
	CV	17.2	13.3	6.4	12.2	8.9	6.0	10.5	2.1	3.5	5.5	8.0
	F Test	0.2178	0.0171	0.1598	0.1197	0.0834	0.0929	0.2844	0.0858	0.0848	0.1621	0.0775

**Table 7A. New Mexico 2021 Forage Corn Performance Test - Agricultural Science Center at Clovis**

**Investigators:** A. Mesbah, A. Scott, and B. Niece

**Test Description**

<b>Location:</b>	<b>Management Practices:</b>	<b>Growing Conditions:</b>		
County/Area: Curry	Previous Crop: fallow	Average		
Longitude: -103.22	Planting Date: 20-May	Temp.	Precip.	Irrigation
Latitude: 34.60	Harvest Date: 31-Aug	°F	in.	in.
Elevation: 4435 ft.	<b>Production Inputs</b>			
Soil Name: Olton	Rate	Date		
Soil Texture: clay loam	<b>Fertilizer:</b>			
Soil Depth: >60 in.	Nitrogen	15 lb/ac	carryover	January
	Nitrogen	70 lb/ac	6-Apr	February
	Zn	4 qt/ac	6-Apr	March
	Phos	65 lb/ac	6-Apr	April
	S	22 lb/ac	6-Apr	May
	Nitrogen	91.2 lb/ac	21-May	June
	Sulfur	16.5 lb/ac	21-May	July
				August
				September
				October
				November
				December
				Seasonal Precipitation: 13.2 in.
				Total Irrigation: 20.2 in.
				Date of Last Spring Frost: 22-Apr
				Date of First Fall Frost: 20-Oct
				Frost Free Period: 181 days
<b>Test Design:</b>	<b>Herbicides:</b>			
Replications: 3	Roundup PowerMax	1 qt/ac	7-Apr	
Plot Length: 20 ft.	DiFlexx	8 oz/ac	7-Apr	
Rows per Plot: 2	Panther	20 oz/ac	7-Apr	
Row Spacing: 30 in.	Roundup PowerMax	1 qt/ac	21-May	
Seeding Rate: 27,000 seed/a	Atrazine	2 pt/ac	21-May	
	Balance Flex	2 oz/ac	21-May	
	Warrant	2 qt/ac	21-May	
	DiFlexx	8 oz/ac	23-Jun	
	Warrant	2 qt/ac	23-Jun	
	<b>Insecticides:</b>			
	Prevathon	14 oz/ac	23-Jun	
	Oberon	8 oz/ac	23-Jun	
	Onager	16 oz/ac	5-Aug	
	Prevathon	20 oz/ac	5-Aug	

**Table 7B. New Mexico 2021 Forage Corn Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid/Variety Name	65% Moisture			CP	ADF	NDF	NDFD		Ash	TDN	NE <sub>l</sub>	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage	at Harvest				30hr	Starch					
		t/a	t/a	%	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
Dyna-Gro Seed	D57TC29	8.7	24.8	72.0	8.0	27.0	49.9	54.3	16.8	4.8	64.7	0.665	3143	27239
Dyna-Gro Seed	D54VC14	8.6	24.6	72.8	8.8	28.0	50.1	51.1	17.4	5.0	66.0	0.679	3223	27803
Bayer/Dekalb	DKC61-80	8.6	24.6	69.9	8.9	24.8	46.0	53.2	21.6	4.8	66.5	0.684	3248	27903
BH Genetics	BH 8704VIP3110	8.6	24.5	73.5	9.1	25.8	47.9	52.9	17.7	4.7	64.6	0.663	3113	26675
BH Genetics	X21042	8.6	24.4	73.0	8.9	26.4	48.1	53.1	19.4	4.6	65.8	0.677	3197	27326
Wilbur-Ellis/Integra	Integra 6891 3110	8.5	24.2	72.3	9.4	26.1	48.1	52.7	17.2	5.1	64.6	0.663	3112	26400
Dyna-Gro Seed	D58VC65	8.5	24.2	70.7	9.7	24.3	46.3	53.9	21.0	4.4	67.3	0.693	3312	27990
Dyna-Gro Seed	D55VC80	8.4	24.0	72.7	8.3	27.2	50.1	53.8	18.8	4.5	66.8	0.688	3293	27685
Wilbur-Ellis/Integra	Integra 6880 VT2P	8.3	23.8	72.9	9.0	25.8	47.2	53.1	20.6	4.7	66.5	0.685	3251	27060
Wilbur-Ellis/Integra	Integra 6641 SS	8.3	23.6	74.1	8.8	25.5	47.0	51.7	20.8	4.5	65.6	0.675	3182	26305
Bayer/Dekalb	DKC70-64	8.3	23.6	73.6	9.4	28.1	50.5	51.3	16.6	4.9	65.4	0.673	3171	26218
BH Genetics	BY 8705VIP3110	8.2	23.6	72.9	8.8	26.5	48.9	53.6	18.4	4.9	65.9	0.678	3217	26534
Wilbur-Ellis/Integra	Integra 6695 TRE	8.2	23.5	73.0	8.7	25.4	46.4	53.3	24.0	4.6	68.9	0.711	3437	28306
Dyna-Gro Seed	D57VC17	8.2	23.5	71.6	9.4	25.7	46.6	51.3	20.7	5.1	65.9	0.678	3198	26323
Wilbur-Ellis/Integra	Integra 6720 SS	8.2	23.4	71.7	9.1	25.7	47.3	52.8	21.0	4.6	66.9	0.689	3283	26919
Wilbur-Ellis/Integra	Integra CX001117 TRE	8.2	23.4	73.5	8.7	24.8	46.2	54.0	22.5	4.4	67.0	0.690	3291	26977
BH Genetics	BH 8732VT2P	8.2	23.4	72.0	9.1	24.1	44.1	52.8	24.4	4.7	67.7	0.698	3331	27231
Dyna-Gro Seed	D53TC19	8.2	23.3	73.2	8.9	28.2	51.1	52.4	16.7	4.8	65.7	0.676	3195	26105
Dyna-Gro Seed	D58VC90	8.1	23.3	73.3	8.5	25.8	46.6	54.9	23.7	4.6	68.6	0.708	3413	27805
Bayer/Dekalb	DKC67-66	8.1	23.3	72.5	8.8	26.9	49.4	53.3	18.6	4.5	66.0	0.679	3214	26165
BH Genetics	BH 8703VIP3110	8.0	23.0	71.8	8.8	26.2	48.6	53.2	19.9	4.6	67.0	0.689	3290	26460
Wilbur-Ellis/Integra	Integra CX001118 VT2P	8.0	22.9	73.6	8.8	27.4	49.6	52.1	15.9	5.5	63.7	0.653	3050	24451
BH Genetics	BH 8400PCE	8.0	22.9	74.0	8.2	25.8	46.3	52.1	23.8	5.0	67.6	0.696	3329	26665
Dyna-Gro Seed	D52DC82	8.0	22.8	74.4	8.1	26.9	48.2	54.2	21.0	4.9	67.2	0.692	3311	26378
BH Genetics	XP 8670TRE	7.9	22.7	72.9	8.7	26.5	48.8	51.2	20.2	4.5	66.4	0.684	3245	25738
Wilbur-Ellis/Integra	Integra 6709 VT2P	7.9	22.6	73.1	8.5	26.9	49.5	52.9	17.9	4.7	65.4	0.672	3178	25078
BH Genetics	X20044VIP3110	7.9	22.4	71.6	9.0	25.8	47.4	52.4	20.9	4.6	66.9	0.689	3284	25801
Wilbur-Ellis/Integra	Integra 6811 VT2P	7.8	22.4	72.2	9.0	26.3	48.2	52.4	21.8	4.4	68.2	0.703	3371	26459
Wilbur-Ellis/Integra	Integra 6621 SS	7.8	22.3	73.6	9.4	26.0	46.8	51.3	20.8	5.0	66.3	0.682	3223	25124
Wilbur-Ellis/Integra	Integra 9678 VT2P	7.8	22.2	74.1	9.5	27.3	49.1	50.3	19.0	5.0	66.4	0.683	3232	25137
Dyna-Gro Seed	D58QC72	7.7	22.0	72.2	9.1	26.2	47.6	54.7	20.6	4.8	68.5	0.706	3413	26347
BH Genetics	BH 8690VIP3111	7.7	22.0	72.9	9.0	26.4	47.9	50.8	20.9	4.9	67.1	0.691	3289	25283
Bayer/Dekalb	DKC64-44	7.7	21.9	71.9	8.7	25.4	46.6	52.7	22.4	4.3	67.6	0.697	3338	25618
	Trial Mean	8.2	23.3	72.7	8.9	26.2	47.9	52.7	20.1	4.7	66.5	0.685	3254	26530
	LSD	0.5	1.5	1.4	0.6	2.0	2.6	1.5	3.0	NS	2.0	0.022	146	NS
	LSD P >	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	CV	4.0	4.0	1.2	4.3	4.6	3.4	1.8	9.2	8.0	1.8	2.0	2.7	5.3
	F Test	0.0019	0.0019	<0.0001	<0.0001	0.0061	0.0002	<0.0001	<0.0001	0.1614	<0.0001	<0.0001	<0.0001	0.1550

**Table 8A. New Mexico 2021 Forage Corn Performance Test - Agricultural Science Center at Farmington**

**Investigators:** Djaman, K. (PI), M.M. West, and D. Begay

**Test Description**

<p><b>Location:</b></p> <p>County/Area: San Juan          Longitude: -108.3061          Latitude: 36.6812          Elevation: 5,640 ft.          Soil Name: Wall          Soil Texture: sandy loam          Soil Depth: &gt; 75 in.</p> <p><b>Test Design:</b></p> <p>Replications: 4          Plot Length: 20 ft.          Rows per Plot: 4          Row Spacing: 30 in.</p> <p>Seeding Rate: 36,569 seeds/a          Harvest area: 1 row 10 feet long</p>	<p><b>Management Practices:</b></p> <p>Previous Crop: Pivot 6:          Planting Date: 19-May          Harvest Date: 23-Sep</p> <p><b>Production Inputs</b></p> <table border="1"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Fertilizer:</b></td> </tr> <tr> <td>Nitrogen</td> <td>68.75</td> <td>1-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>68.75</td> <td>12-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>68.75</td> <td>16-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>68.75</td> <td>19-Jul</td> </tr> <tr> <td>Total Nitrogen</td> <td>275</td> <td></td> </tr> <tr> <td>P<sub>2</sub>O<sub>5</sub></td> <td>0</td> <td></td> </tr> <tr> <td>K<sub>2</sub>O</td> <td>0</td> <td></td> </tr> <tr> <td>ZnSO<sub>4</sub></td> <td>0</td> <td></td> </tr> </tbody> </table> <p><b>Herbicides:</b></p> <table> <tr> <td></td> <td>oz/a</td> <td></td> </tr> <tr> <td>Bicep Mag II</td> <td>2.1 qt/a</td> <td>20-May</td> </tr> <tr> <td>Super Spread MSO</td> <td>oz/a</td> <td></td> </tr> </table>		Rate	Date	<b>Fertilizer:</b>			Nitrogen	68.75	1-Jul	Nitrogen	68.75	12-Jul	Nitrogen	68.75	16-Jul	Nitrogen	68.75	19-Jul	Total Nitrogen	275		P <sub>2</sub> O <sub>5</sub>	0		K <sub>2</sub> O	0		ZnSO <sub>4</sub>	0			oz/a		Bicep Mag II	2.1 qt/a	20-May	Super Spread MSO	oz/a		<p><b>Growing Conditions:</b></p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>30</td><td>0.37</td><td></td></tr> <tr><td>February</td><td>35</td><td>0.39</td><td></td></tr> <tr><td>March</td><td>41</td><td>0.66</td><td></td></tr> <tr><td>April</td><td>52</td><td>0.07</td><td></td></tr> <tr><td>May</td><td>61</td><td>0.02</td><td>2.0</td></tr> <tr><td>June</td><td>73</td><td>0.21</td><td>8.3</td></tr> <tr><td>July</td><td>77</td><td>0.36</td><td>11.9</td></tr> <tr><td>August</td><td>73</td><td>0.37</td><td>7.4</td></tr> <tr><td>September</td><td>66</td><td>0.51</td><td>4.0</td></tr> <tr><td>October</td><td>52</td><td>0.35</td><td></td></tr> <tr><td>November</td><td>44</td><td>0.09</td><td></td></tr> <tr><td>December</td><td>34</td><td>0.85</td><td></td></tr> </tbody> </table> <p>Seasonal Precipitation 1.5 in.          Total Irrigation 33.5 in.</p> <p>Date of Last Spring Frost: 24-May          Date of First Fall Frost: 13-Oct          Frost Free Period: 142 days</p>		Average Temp. °F	Precip. in.	Irrigation in.	January	30	0.37		February	35	0.39		March	41	0.66		April	52	0.07		May	61	0.02	2.0	June	73	0.21	8.3	July	77	0.36	11.9	August	73	0.37	7.4	September	66	0.51	4.0	October	52	0.35		November	44	0.09		December	34	0.85	
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**Table 8B. New Mexico 2021 Forage Corn Performance Test - Agricultural Science Center at Farmington**

**Results**

Brand/Company Name	Hybrid/Variety Name	Moisture					CP	NDFD			Ash	TDN	Milk/Ton	Milk/Acre
		Dry Forage	Green Forage	at Harvest	Plant Height	Ear Height		NDF	48hr	Starch				
		t/a	t/a	%	in	in	%	%	%	%	%	lb/t	lb/a	
Dyna-Gro Seed	D58QC72	16.0	37.9	57.8	102	43	7.6	39.4	62.1	33.8	4.2	66.6	2,893	46,192
Dyna-Gro Seed	D55VC80	15.8	42.9	63.2	101	41	8.2	41.2	62.0	30.4	3.9	66.7	2,900	46,059
Dyna-Gro Seed	D52DC82	14.5	39.6	63.4	98	44	7.9	42.2	63.5	29.8	4.4	66.4	2,856	41,423
Dyna-Gro Seed	D58VC65	13.7	36.2	62.1	99	42	7.9	42.2	63.8	27.9	4.3	65.2	2,759	37,788
Dyna-Gro Seed	D53TC19	13.5	37.5	63.7	105	45	7.8	42.2	62.7	29.4	4.4	65.8	2,815	37,874
Dyna-Gro Seed	D58VC90	13.0	33.4	61.2	100	45	8.0	40.2	62.6	31.6	4.3	66.5	2,874	37,433
Dyna-Gro Seed	D57VC17	12.7	35.3	64.2	102	42	7.5	41.3	63.3	31.6	4.0	67.0	2,907	36,953
Dyna-Gro Seed	D54VC14	11.7	31.5	62.5	97	40	7.9	41.6	63.7	30.4	4.0	66.8	2,892	33,982
Dyna-Gro Seed	D57TC29	11.4	30.4	62.1	94	42	7.9	40.3	62.9	33.5	4.1	66.6	2,888	32,827
	Trial Mean	13.6	36.1	62.2	100	43	7.9	41.2	63.0	30.9	4.2	66.4	2,865	38,948
	LSD (0.05)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	CV %	23.1	22.5	4.1	6.6	11.2	5.7	6.6	1.7	11.2	9.2	1.6	3.1	23.2
	F Test	0.4172	0.4943	0.0571	0.4799	0.8993	0.5955	0.7907	0.2238	0.3417	0.4503	0.4079	0.3282	0.3954

**Table 9A. New Mexico 2021 Forage Corn Performance Test - Rex E. Kirksey Agricultural Science Center at Tucumcari**

**Investigators:** L.M. Lauriault, G. Martinez, J. Box, P.A. Cooksey, J. Jennings, and S. Jennings

**Test Description**

Location:	Management Practices:	Growing Conditions:																																																																													
County/Area: Quay Longitude: -103.68 Latitude: 35.20 Elevation: 4086 ft. Soil Name: Canez Soil Texture: Fine sandy loam Soil Depth: >60 in.	Previous Crop: Fallow Planting Date: 2-Jul Harvest Date: 6-Oct  <hr/> Production Inputs <hr/> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Rate</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td colspan="3">Fertilizer:</td> </tr> <tr> <td style="padding-left: 20px;">Nitrogen</td> <td style="text-align: center;">0 lb/a</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">P2O5</td> <td style="text-align: center;">0 lb/a</td> <td></td> </tr> </tbody> </table> Herbicides:  <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="padding-left: 20px;">Roundup Power Max</td> <td style="text-align: center;">3% vol/vol</td> <td style="text-align: center;">1-Jul</td> </tr> <tr> <td style="padding-left: 40px;">Brimstone</td> <td style="text-align: center;">4 pts/A</td> <td style="text-align: center;">1-Jul</td> </tr> <tr> <td style="padding-left: 20px;">Bicep Lite II Magnum</td> <td style="text-align: center;">2 qt/A</td> <td style="text-align: center;">6-Jul</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	0 lb/a		P2O5	0 lb/a		Roundup Power Max	3% vol/vol	1-Jul	Brimstone	4 pts/A	1-Jul	Bicep Lite II Magnum	2 qt/A	6-Jul	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Average Temp. °F</th> <th style="text-align: center;">Precip. in.</th> <th style="text-align: center;">Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td style="text-align: center;">39</td><td style="text-align: center;">0.18</td><td style="text-align: center;">0.00</td></tr> <tr><td>February</td><td style="text-align: center;">36</td><td style="text-align: center;">0.10</td><td style="text-align: center;">0.00</td></tr> <tr><td>March</td><td style="text-align: center;">50</td><td style="text-align: center;">1.52</td><td style="text-align: center;">0.00</td></tr> <tr><td>April</td><td style="text-align: center;">57</td><td style="text-align: center;">0.13</td><td style="text-align: center;">0.00</td></tr> <tr><td>May</td><td style="text-align: center;">67</td><td style="text-align: center;">2.12</td><td style="text-align: center;">0.00</td></tr> <tr><td>June</td><td style="text-align: center;">78</td><td style="text-align: center;">1.22</td><td style="text-align: center;">0.00</td></tr> <tr><td>July</td><td style="text-align: center;">77</td><td style="text-align: center;">6.51</td><td style="text-align: center;">0.00</td></tr> <tr><td>August</td><td style="text-align: center;">79</td><td style="text-align: center;">2.19</td><td style="text-align: center;">0.00</td></tr> <tr><td>September</td><td style="text-align: center;">75</td><td style="text-align: center;">0.55</td><td style="text-align: center;">0.00</td></tr> <tr><td>October</td><td style="text-align: center;">62</td><td style="text-align: center;">0.98</td><td style="text-align: center;">0.00</td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table>  <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="padding-left: 20px;">Seasonal Precipitation</td> <td style="text-align: center;">11.5 in.</td> </tr> <tr> <td style="padding-left: 20px;">Total Seasonal Irrigation</td> <td style="text-align: center;">0.0 in.</td> </tr> </tbody> </table> Date of Last Spring Frost: 21-Apr Date of First Fall Frost: 12-Nov Frost Free Period: 205 days		Average Temp. °F	Precip. in.	Irrigation in.	January	39	0.18	0.00	February	36	0.10	0.00	March	50	1.52	0.00	April	57	0.13	0.00	May	67	2.12	0.00	June	78	1.22	0.00	July	77	6.51	0.00	August	79	2.19	0.00	September	75	0.55	0.00	October	62	0.98	0.00	November				December				Seasonal Precipitation	11.5 in.	Total Seasonal Irrigation	0.0 in.
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**Table 9B. New Mexico 2021 Forage Corn Performance Test - Rex E. Kirksey Agricultural Science Center at Tucumcari**

**Results**

Brand/Company Name	Hybrid/Variety Name	65% Moisture			CP	NDF	NDFD		Ash	TDN	NE <sub>l</sub>	Milk/Ton	Milk/Acre
		Dry Forage	Adj. Green Forage	Moisture at Harvest			48hr	Starch					
		t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
Bayer/Dekalb	DKC67-66	0.6	1.5	57.6	10.8	67.1	48.8	2.5	4.3	61.7	0.488	1849	971
Wilbur-Ellis/Integra	Integra 6695 TRE	0.6	1.5	64.6	11.3	63.6	53.5	2.6	3.8	64.6	0.507	2005	1045
Wilbur-Ellis/Integra	Integra CX001118 VT2	0.6	1.7	59.7	10.7	65.3	51.8	2.2	4.7	62.6	0.488	1871	1023
Dyna-Gro Seed	D52DC82	0.5	1.1	55.5	11.0	68.5	51.8	1.1	4.2	61.0	0.505	1983	924
Dyna-Gro Seed	D53TC19	0.5	1.2	57.6	10.7	67.5	51.0	1.2	4.0	61.4	0.496	1919	969
Dyna-Gro Seed	D57TC29	0.5	1.2	59.6	10.5	68.7	52.3	1.0	3.8	61.1	0.503	1971	951
Dyna-Gro Seed	D58VC65	0.5	1.1	53.6	11.4	68.2	47.8	1.0	5.2	60.1	0.490	1855	925
Dyna-Gro Seed	D58VC90	0.5	1.4	59.7	10.1	66.0	49.0	2.0	4.5	62.1	0.478	1789	924
Bayer/Dekalb	DKC70-64	0.5	1.4	51.9	11.1	68.1	50.0	1.0	4.6	60.8	0.488	1859	1010
Wilbur-Ellis/Integra	Integra 6621 SS	0.5	1.2	53.3	11.0	68.4	51.5	2.6	4.1	61.2	0.498	1937	904
Wilbur-Ellis/Integra	Integra 6811 VT2P	0.5	1.3	58.1	10.3	66.1	48.8	1.9	4.6	61.5	0.478	1788	847
Wilbur-Ellis/Integra	Integra 9678 VT2P	0.5	1.1	54.4	12.0	67.0	50.3	1.2	5.2	61.0	0.492	1886	882
Dyna-Gro Seed	D54VC14	0.4	1.0	52.8	10.6	69.0	49.0	1.2	4.4	60.5	0.479	1799	755
Dyna-Gro Seed	D55VC80	0.4	1.0	53.1	10.8	69.1	51.5	1.4	4.7	60.9	0.497	1930	817
Dyna-Gro Seed	D57VC17	0.4	1.0	57.7	10.9	67.6	51.5	1.2	4.0	62.4	0.505	1981	781
Dyna-Gro Seed	D58QC72	0.4	1.0	64.0	11.0	67.9	52.3	0.7	4.8	61.9	0.505	1981	731
Bayer/Dekalb	DKC61-80	0.4	0.8	48.6	11.2	70.7	49.5	0.7	4.5	59.7	0.493	1886	726
Bayer/Dekalb	DKC64-44	0.4	0.7	51.0	11.3	68.3	48.3	1.4	4.5	61.0	0.488	1847	667
Wilbur-Ellis/Integra	Integra 6641 SS	0.4	0.8	52.6	11.8	68.7	48.0	0.4	5.1	60.4	0.493	1880	738
Wilbur-Ellis/Integra	Integra 6891 3110	0.4	1.1	56.4	12.9	68.2	54.3	0.1	5.2	62.1	0.522	2110	908
Wilbur-Ellis/Integra	Integra CX001117 TRE	0.4	1.1	60.8	9.8	67.4	52.0	1.4	4.0	61.6	0.486	1862	781
Wilbur-Ellis/Integra	Integra 6709 VT2P	0.3	0.8	53.6	10.5	68.2	50.3	1.4	4.8	61.1	0.493	1895	585
Wilbur-Ellis/Integra	Integra 6720 SS	0.3	0.7	53.1	11.4	69.9	51.5	0.5	4.5	60.9	0.507	1991	600
Wilbur-Ellis/Integra	Integra 6880 VT2P	0.3	1.0	59.1	11.7	69.9	49.5	0.5	4.3	61.2	0.498	1923	686
Trial Mean		0.4	1.1	56.2	11.0	67.9	50.6	1.3	4.5	61.4	0.494	1908	840
LSD P < 0.05		NS	NS	NS	NS	NS	3.8	NS	NS	NS	NS	178	NS
CV		60.4	67.8	15.6	17.4	4.9	5.4	120.5	15.4	3.4	3.6	6.6	57.6
F Test		0.9967	0.9771	0.6479	0.9739	0.6225	0.0566	0.7279	0.0802	0.5939	0.1638	0.1017	0.9989

**Table 10A. New Mexico 2021 Dryland Grain Sorghum Performance Test - Agricultural Science Center at Clovis**

**Investigators:** A. Mesbah, A. Scott, and B. Niece

**Test Description**

<p><b>Location:</b>                  County/Area: Curry                  Longitude: -103.22                  Latitude: 34.60                  Elevation: 4435 ft.                  Soil Name: Olton                  Soil Texture: clay loam                  Soil Depth: &gt;60 in.</p> <p><b>Test Design:</b>                  Replications: 3                  Plot Length: 20 ft.                  Rows per Plot: 2                  Row Spacing: 30 in.                  Seeding Rate: 29000 seed/ac</p>	<p><b>Management Practices:</b>                  Previous Crop: fallow                  Planting Date: 8-Jun                  Harvest Date: 28-Oct</p> <p><b>Production Inputs</b></p> <table border="1"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Fertilizer:</b></td> </tr> <tr> <td>Nitrogen</td> <td>30 lb/ac</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>50 lb/ac</td> <td>6-Apr</td> </tr> <tr> <td>Phosphorus</td> <td>30 lb/ac</td> <td>6-Apr</td> </tr> <tr> <td>S</td> <td>7.4 lb/ac</td> <td>6-Apr</td> </tr> <tr> <td>Chelated Zn</td> <td>2 qt/ac</td> <td>6-Apr</td> </tr> <tr> <td colspan="3"><b>Herbicides:</b></td> </tr> <tr> <td>Atrazine</td> <td>1.5 pt/ac</td> <td>9-Jun</td> </tr> <tr> <td>Warrant</td> <td>2 qt/ac</td> <td>9-Jun</td> </tr> <tr> <td>Buccaneer</td> <td>1.5 qt/ac</td> <td>9-Jun</td> </tr> <tr> <td>Sharpen</td> <td>1.5 oz/ac</td> <td>9-Jun</td> </tr> <tr> <td>Huskie</td> <td>1 pt/ac</td> <td>14-Jul</td> </tr> <tr> <td>Atrazine</td> <td>1 pt/ac</td> <td>14-Jul</td> </tr> <tr> <td>Warrant</td> <td>1.5 qt/ac</td> <td>14-Jul</td> </tr> <tr> <td colspan="3"><b>Insecticides:</b></td> </tr> <tr> <td>Onager</td> <td>8 oz/ac</td> <td>16-Aug</td> </tr> <tr> <td>Oberon</td> <td>8 oz/ac</td> <td>16-Aug</td> </tr> <tr> <td>Prevathon</td> <td>14 oz/ac</td> <td>16-Aug</td> </tr> <tr> <td>Sivanto</td> <td>7 oz/ac</td> <td>16-Aug</td> </tr> </tbody> </table>		Rate	Date	<b>Fertilizer:</b>			Nitrogen	30 lb/ac	carryover	Nitrogen	50 lb/ac	6-Apr	Phosphorus	30 lb/ac	6-Apr	S	7.4 lb/ac	6-Apr	Chelated Zn	2 qt/ac	6-Apr	<b>Herbicides:</b>			Atrazine	1.5 pt/ac	9-Jun	Warrant	2 qt/ac	9-Jun	Buccaneer	1.5 qt/ac	9-Jun	Sharpen	1.5 oz/ac	9-Jun	Huskie	1 pt/ac	14-Jul	Atrazine	1 pt/ac	14-Jul	Warrant	1.5 qt/ac	14-Jul	<b>Insecticides:</b>			Onager	8 oz/ac	16-Aug	Oberon	8 oz/ac	16-Aug	Prevathon	14 oz/ac	16-Aug	Sivanto	7 oz/ac	16-Aug	<p><b>Growing Conditions:</b></p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>36.4</td><td>0.17</td><td></td></tr> <tr><td>February</td><td>35.4</td><td>0.06</td><td></td></tr> <tr><td>March</td><td>47.3</td><td>0.06</td><td></td></tr> <tr><td>April</td><td>53.6</td><td>0.22</td><td>4.0</td></tr> <tr><td>May</td><td>64.1</td><td>1.17</td><td></td></tr> <tr><td>June</td><td>74.9</td><td>3.95</td><td></td></tr> <tr><td>July</td><td>74.0</td><td>5.59</td><td></td></tr> <tr><td>August</td><td>74.0</td><td>2.24</td><td></td></tr> <tr><td>September</td><td>73.0</td><td>0.86</td><td></td></tr> <tr><td>October 1-28</td><td>66.0</td><td>0.00</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: 14.0 in.                  Total Irrigation: 4.0 in.</p> <p>Date of Last Spring Frost: 22-Apr                  Date of First Fall Frost: 20-Oct                  Frost Free Period: 181 days</p>		Average Temp. °F	Precip. in.	Irrigation in.	January	36.4	0.17		February	35.4	0.06		March	47.3	0.06		April	53.6	0.22	4.0	May	64.1	1.17		June	74.9	3.95		July	74.0	5.59		August	74.0	2.24		September	73.0	0.86		October 1-28	66.0	0.00		November				December			
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**Table 10B. New Mexico 2021 Dryland Grain Sorghum Performance Test - Agricultural Science Center at Clovis**

**Results**

Brand/Company Name	Hybrid/Variety Name	Relative Maturity	Grain Yield	Grain Yield	Moisture at Harvest	Test Weight
			lb/a	bu/a	%	lb/bu
Dyna-Gro Seed	M72GB71	MF	6101	109.0	7.2	61.1
Sorghum Partners	251	E	5958	106.4	7.5	60.1
Dyna-Gro Seed	GX21965	MF	5332	95.2	7.7	61.1
Dyna-Gro Seed	GX20970	MF	5243	93.7	6.7	60.7
Dyna-Gro Seed	M60GB31	ME	5088	90.9	7.3	60.1
Dyna-Gro Seed	M67GB87	M	5026	89.8	7.0	59.5
Dyna-Gro Seed	GX20998	M	4918	87.8	6.3	58.8
Sorghum Partners	SP 43M80	ME	4743	84.7	8.1	61.1
Dyna-Gro Seed	GX20973	ME	4647	83.0	7.4	60.4
Dyna-Gro Seed	M59GB94	E	4617	82.5	7.2	61.2
Dyna-Gro Seed	M59GB57	E	4566	81.5	6.8	58.7
Dyna-Gro Seed	M63GB78	M	4551	81.3	5.5	60.2
Dyna-Gro Seed	M60GB88	ME	4529	80.9	7.2	59.2
Sorghum Partners	SP 68M57	M	4470	79.8	6.1	59.1
Dyna-Gro Seed	M71GR91	MF	4305	76.9	6.1	61.3
Dyna-Gro Seed	M54GR24	VE	3190	57.0	6.4	59.1
Sorghum Partners	SP 25C10	E	2734	48.8	6.7	57.4
		Trial Mean	4707	84.0	6.9	59.9
		LSD (P > 0.05)	NS	NS	NS	NS
		CV	17.8	17.8	11.2	1.8
		F Test	0.0965	0.0965	0.2251	0.0854

**Table 11A. New Mexico 2021 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Artesia**

**Investigators:** R. Flynn, R. Pacheco, M. Lopez, and C. Hill

**Test Description**

<p><b>Location:</b></p> <p>County/Area: Eddy          Longitude: -104.22          Latitude: 32.45          Elevation: 3356 ft.          Soil Name: Pima          Soil Texture: silt loam          Soil Depth: 32 in.</p> <p><b>Test Design:</b></p> <p>Replications: 4          Plot Length: 20 ft.          Rows per Plot: 2          Row Spacing: 40 in.</p> <p>Seeding Rate: 63,000 seed/a</p>	<p><b>Management Practices:</b></p> <p>Previous Crop: cotton          Planting Date: 23-Jun          Harvest Date: 24-Aug</p> <p><b>Production Inputs</b></p> <table border="1"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Fertilizer:</b></td> </tr> <tr> <td>Nitrogen</td> <td>100 lb/a</td> <td>25-Apr</td> </tr> <tr> <td>Nitrogen</td> <td>100 lb/a</td> <td>23-Jul</td> </tr> <tr> <td>P<sub>2</sub>O<sub>5</sub></td> <td>96 lb/a</td> <td>25-Apr</td> </tr> </tbody> </table> <p><b>Herbicides:</b></p> <p>None</p> <p><b>Insecticides:</b></p> <p>None</p>		Rate	Date	<b>Fertilizer:</b>			Nitrogen	100 lb/a	25-Apr	Nitrogen	100 lb/a	23-Jul	P <sub>2</sub> O <sub>5</sub>	96 lb/a	25-Apr	<p><b>Growing Conditions:</b></p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>40.0</td><td>0.25</td><td></td></tr> <tr><td>February</td><td>41.4</td><td>0.27</td><td></td></tr> <tr><td>March</td><td>52.0</td><td>0.03</td><td></td></tr> <tr><td>April</td><td>58.2</td><td>1.30</td><td>1.55</td></tr> <tr><td>May</td><td>70.9</td><td>1.00</td><td>4.12</td></tr> <tr><td>June</td><td>80.0</td><td>4.31</td><td>8.74</td></tr> <tr><td>July</td><td>78.2</td><td>1.71</td><td>9.93</td></tr> <tr><td>August</td><td>77.8</td><td>1.91</td><td>3.61</td></tr> <tr><td>September</td><td>74.4</td><td>0.39</td><td></td></tr> <tr><td>October</td><td>62.1</td><td>0.92</td><td></td></tr> <tr><td>November</td><td>51.2</td><td>0.09</td><td></td></tr> <tr><td>December</td><td>50.0</td><td>0.00</td><td></td></tr> </tbody> </table> <p>Seasonal Precipitation <sup>█</sup> 10.23 in.          Total Irrigation 27.94 in.</p> <p>Date of Last Spring Frost: 1-Apr          Date of First Fall Frost: 29-Oct          Frost Free Period: 211 days</p>		Average Temp. °F	Precip. in.	Irrigation in.	January	40.0	0.25		February	41.4	0.27		March	52.0	0.03		April	58.2	1.30	1.55	May	70.9	1.00	4.12	June	80.0	4.31	8.74	July	78.2	1.71	9.93	August	77.8	1.91	3.61	September	74.4	0.39		October	62.1	0.92		November	51.2	0.09		December	50.0	0.00	
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**Table 11B. New Mexico 2021 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Artesia**

**Results**

Brand/Company Name	Hybrid/Variety Name	Sorghum <sup>†</sup> Type	Maturity <sup>§</sup> Group	Brown Midrib	Moisture			CP	ADF	NDF	NDFD		Ash	TDN	NE <sub>l</sub>	RFQ
					Dry Forage	Green Forage	at Harvest				30hr	IVTDMD				
					t/a	t/a	%				%	%				
Dyna-Gro Seed	5 Star	FS	ME	N	6.0	16.0	62.3	5.1	30.9	50.0	58.8	79.1	6.2	67.4	0.696	118
Dyna-Gro Seed	F72FS05	FS	ME	N	6.0	17.8	66.3	4.5	36.3	61.9	54.5	72.3	7.3	61.1	0.626	91
Dyna-Gro Seed	F74FS23 BMR	FS	M	Y	5.9	20.8	70.7	4.0	34.7	57.3	63.8	77.4	8.4	63.0	0.647	101
Dyna-Gro Seed	F72FS25 BMR	FS	M	Y	5.7	17.3	66.8	5.6	34.7	58.1	59.3	74.5	8.8	63.0	0.647	105
Dyna-Gro Seed	Sweet Ton	FS	MF	N	5.7	15.0	62.3	6.0	27.4	44.6	66.5	83.8	5.9	71.3	0.740	143
Dyna-Gro Seed	FX21865	FS	MF	N	5.6	15.1	62.8	5.0	34.9	58.0	54.3	72.6	8.6	62.8	0.644	94
Dyna-Gro Seed	Super Sile 20	FS	MF	N	5.4	17.3	69.0	5.0	34.6	58.2	53.3	73.2	7.2	63.1	0.649	97
Dyna-Gro Seed	Super Sile 30	FS	ME	N	5.1	16.6	69.3	3.9	36.5	61.5	54.8	73.0	7.0	60.9	0.624	89
Dyna-Gro Seed	GX20998	GS	M		5.1	10.9	52.9	6.4	31.1	51.5	50.5	73.9	8.2	67.1	0.693	106
Dyna-Gro Seed	M72GB71	GS	MF		5.1	11.8	57.0	6.9	32.4	53.4	51.0	73.1	8.4	65.6	0.676	107
Dyna-Gro Seed	F71FS72 BMR	FS	E	Y	5.0	12.9	61.7	6.3	29.9	49.7	62.3	79.2	6.6	68.5	0.709	132
Dyna-Gro Seed	GX21965	GS	MF		4.9	11.3	58.6	6.9	32.6	53.3	50.8	73.1	9.1	65.4	0.674	105
Dyna-Gro Seed	F74FS72 BMR	FS	MF	Y	4.9	13.8	64.2	4.3	35.7	59.0	59.8	74.7	8.3	61.9	0.635	97
Dyna-Gro Seed	M63GB78	GS	M		4.5	9.8	54.4	7.1	32.2	52.8	51.5	73.5	8.8	65.8	0.679	108
Dyna-Gro Seed	FX21815	FS	ME	N	4.5	9.7	53.7	6.8	31.4	52.2	52.0	74.2	8.1	66.7	0.688	111
Dyna-Gro Seed	GX20970	GS	MF		4.3	8.9	51.7	6.2	32.5	52.7	51.3	73.3	9.0	65.5	0.675	102
Dyna-Gro Seed	M60GB31	GS	ME		4.2	9.2	57.8	8.1	29.4	50.5	46.5	73.2	6.9	69.0	0.714	117
Dyna-Gro Seed	FX21842	FS	MF	N	4.2	13.7	69.5	3.2	36.6	61.9	56.5	74.3	6.9	60.8	0.623	85
Dyna-Gro Seed	GX20973	GS	ME		4.1	8.7	54.9	6.3	29.6	48.2	50.8	74.6	8.1	68.8	0.712	109
Dyna-Gro Seed	M59GB94	GS	E		4.0	8.7	53.5	5.9	32.7	53.1	52.8	74.1	8.6	65.3	0.673	103
Dyna-Gro Seed	M71GR91	GS	MF		4.0	9.1	57.3	6.5	31.7	51.0	52.8	75.3	8.2	66.4	0.685	111
Dyna-Gro Seed	M60GB88	GS	ME		3.8	7.4	52.1	5.7	31.8	52.3	48.5	73.1	7.4	66.4	0.684	101
Mojo Seed	Pearl	FS	M	N	3.7	11.0	65.4	5.0	34.5	57.3	60.8	76.6	7.8	63.2	0.649	107
Dyna-Gro Seed	F70FS91 BMR	FS	E	Y	3.7	10.3	64.1	5.7	35.2	57.9	62.8	77.6	8.1	62.4	0.641	115
Dyna-Gro Seed	GX20987 (M67GB87)	GS	M		3.5	8.0	57.8	6.0	30.8	49.4	52.5	76.0	8.4	67.5	0.697	110
Dyna-Gro Seed	M54GR24	GS	VE		3.0	6.4	52.8	7.8	32.1	51.0	47.8	73.2	9.3	66.0	0.680	108
Dyna-Gro Seed	M59GB57	GS	E		2.8	5.5	52.5	7.5	29.9	48.7	47.3	75.1	7.8	68.5	0.708	114
				Trial Mean	4.6	12.0	59.9	5.8	32.7	53.9	54.5	75.0	7.9	65.3	0.673	107
				LSD (P < 0.05)	1.5	4.8	4.5	1.4	3.4	5.2	4.6	2.9	1.6	3.8	0.043	15
				CV	13.8	18.4	5.3	17.8	7.3	6.9	6.1	2.8	14.2	4.2	4.5	10.1
				F Test	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0007	<0.0001	<0.0001	<0.0001

<sup>†</sup> Sorghum Type: FS=Forage Sorghum, BD = Brachytic Dwarf, GS = Grain Sorghum, SxS = Sorghum-Sudangrass Hybrid, PM = Pearl Millet

<sup>§</sup>Maturity Group: E = Early, M = Medium, F = Full, L = Late, PS = Photoperiod Sensitive

Brown Midrib Trait: BMR (Y) = Brown Midrib, Conv (N) = Conventional

**Table 12A. New Mexico 2021 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Clovis**

**Investigators:** A. Mesbah, A. Scott, and B. Niece

**Test Description**

<b>Location:</b>	<b>Management Practices:</b>	<b>Growing Conditions:</b>
County/Area: Curry	Previous Crop: fallow	
Longitude: -103.22	Planting Date: 24-May	
Latitude: 34.60	Harvest Date: 14-Sep	
Elevation: 4435 ft.		
Soil Name: Olton		
Soil Texture: clay loam		
Soil Depth: >60 in.		
	<b>Production Inputs</b>	
	<u>Rate</u> <u>Date</u>	
	<b>Fertilizer:</b>	
	Nitrogen            10 lb/ac            carryover	
	Nitrogen            55 lb/ac            6-Apr	
	Phos                 30 lb/ac            6-Apr	
	S                     8.3 lb/ac            6-Apr	
	Chelated Zn        2 qt/ac             6-Apr	
	Nitrogen            45.6 lb/ac         25-May	
	Sulfur               8.3 lb/ac            25-May	
	<b>Herbicides:</b>	
	Atrazine            1.5 pt/ac            25-May	
	Warrant            2 qt/ac             25-May	
	Glyphosate        1.5 qt/ac            25-May	
	Huskie             1 pt/ac             14-Jul	
	Atrazine            1 pt/ac             14-Jul	
	Warrant            1.5 qt/ac            14-May	
	<b>Insecticides:</b>	
	Onager             8 oz/ac             16-Aug	
	Oberon             8 oz/ac             16-Aug	
	Prevathon         14 oz/ac            16-Aug	
	Sivanto             7 oz/ac             16-Aug	
<b>Test Design:</b>		
Replications: 3		
Plot Length: 20 ft.		
Rows per Plot: 2		
Row Spacing: 30 in.		
Seeding Rate: 75,000 seed/a		
		Average
		Temp.            Precip.            Irrigation
		°F                  in.                  in.
		January            36.4            0.17
		February          35.4            0.06
		March             47.3            0.06
		April              53.6            0.22            8.00
		May                64.1            1.17            1.00
		June               74.9            3.95            1.00
		July                74.0            5.59            1.00
		August            74.0            2.24            1.90
		September        73.0            0.86            0.00
		October
		November
		December
		Seasonal Precipitation: 14.0 in.
		Total Irrigation: 12.9 in.
		Date of Last Spring Frost: 22-Apr
		Date of First Fall Frost: 20-Oct
		Frost Free Period: 181 days

**Table 12B. New Mexico 2021 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Clovis - Results**

**Results**

Brand/Company Name	Hybrid/Variety Name	Sorghum Type	Maturity Group	Brown Midrib	Moisture							NDFD 30hr	Ash	TDN	NE <sub>i</sub>	Milk/Ton	Milk/Acre
					Dry Forage	Green Forage	at Harvest	CP	ADF	NDF	NDF						
					t/a	t/a	%	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
Dyna-Gro Seed	5 Star	FS	ME	N	10.5	30.1	60.8	7.4	32.3	53.3	56.3	5.5	66.7	0.687	3285	34616	
Sorghum Partners	SS405	FS	MF	N	10.3	29.3	65.1	7.2	34.4	57.5	52.0	4.8	65.9	0.678	3217	33041	
Dyna-Gro Seed	Super Sile 20	FS	MF	N	9.7	27.6	64.7	7.5	31.9	53.2	53.5	5.6	66.0	0.679	3222	31156	
Dyna-Gro Seed	Super Sile 30	FS	ME	N	9.6	27.5	63.8	7.0	32.6	54.7	53.5	5.6	65.0	0.668	3158	30404	
Dyna-Gro Seed	F72FS05	FS	ME	N	9.4	26.9	61.0	7.6	31.2	52.9	55.2	4.7	68.0	0.701	3374	31713	
Dyna-Gro Seed	F70FS91 BMR	FS	E	Y	9.0	25.8	54.0	8.0	28.9	48.5	59.1	5.5	70.1	0.725	3566	32234	
Wilbur-Ellis	Integra 38F80	FS	ML	N	8.6	24.6	64.7	8.0	32.3	52.9	54.5	5.8	68.4	0.705	3409	29400	
Mojo Seed	Opal	FS	ML	N	8.6	24.5	62.3	7.2	33.4	55.1	55.0	6.2	68.5	0.707	3425	29290	
Dyna-Gro Seed	FX21842	FS	MF	N	8.5	24.2	65.5	7.9	32.2	53.2	54.7	5.9	68.0	0.701	3387	28739	
Dyna-Gro Seed	Sweet Ton MS	FS	MF	N	8.4	24.1	66.5	7.3	29.4	49.8	57.2	5.4	65.5	0.673	3205	27031	
Wilbur-Ellis	Integra 34F95	FS	ME	Y	8.3	23.8	64.9	8.2	27.8	48.8	60.7	4.9	68.4	0.706	3443	28585	
Sorghum Partners	NK300	FS	ME	N	7.8	22.2	65.6	7.6	33.3	54.0	53.8	5.5	67.9	0.700	3370	26181	
Sorghum Partners	SP 3905 BD BMR	FS	ME	Y	7.7	21.9	61.3	8.1	29.6	48.3	59.1	5.0	71.0	0.735	3635	27879	
Wilbur-Ellis	Integra 33F70	FS	L	Y	7.2	20.4	64.8	8.2	31.4	51.6	55.8	5.8	69.4	0.717	3513	25197	
Dyna-Gro Seed	F72FS25 BMR	FS	M	Y	7.1	20.2	68.6	8.1	33.2	53.5	56.8	6.5	68.7	0.709	3458	24389	
Sorghum Partners	SP 3904 BD BMR	FS	MF	Y	6.6	19.0	66.6	8.5	31.3	50.8	57.5	6.5	68.6	0.708	3451	22910	
Mojo Seed	Pearl	FS	M	N	6.6	19.0	70.5	8.8	31.3	54.4	53.2	4.9	66.1	0.680	3238	21488	
Dyna-Gro Seed	FX21865	FS	MF	N	6.5	18.7	62.8	7.6	35.3	55.3	57.6	6.8	69.3	0.716	3511	22971	
Dyna-Gro Seed	F74FS72 BMR	FS	MF	Y	5.7	16.3	70.6	9.1	32.4	52.2	54.3	6.4	68.4	0.706	3431	19561	
Dyna-Gro Seed	F71FS72 BMR	FS	E	Y	5.7	16.2	65.7	7.8	31.6	51.3	57.4	5.8	69.8	0.721	3544	20069	
Dyna-Gro Seed	F74FS23 BMR	FS	M	Y	5.6	16.0	69.0	6.6	32.3	51.1	57.6	6.6	68.6	0.708	3450	19355	
Dyna-Gro Seed	FX21815	FS	ME	N	5.5	15.8	65.7	8.1	34.2	55.1	55.6	6.6	67.6	0.697	3370	18630	
Trial Mean					7.9	22.5	64.7	7.8	31.9	52.6	55.9	5.7	68.0	0.701	3394	26584	
LSD					0.9	2.7	2.0	0.9	NS	4.6	2.4	1.1	2.5	0.028	186	3753	
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					7.3	7.3	1.9	6.8	7.7	5.3	2.6	11.6	2.3	2.4	3.3	8.6	
F Test					<0.0001	<0.0001	<0.0001	0.0002	0.0816	0.0141	<0.0001	0.0030	0.0008	0.0008	0.0001	<0.0001	

† Sorghum Type: FS=Forage Sorghum, BD = Brachytic Dwarf, SxS = Sorghum-Sudangrass Hybrid, HPM = Hybrid Pearl Millet

§Maturity Group: E = Early, M = Medium, F = Full, L = Late, PS = Photoperiod Sensitive

Brown Midrib Trait: BMR = (Y) Brown Midrib, (N) Conv = Conventional

**Table 13A. New Mexico 2021 Dryland Forage Sorghum Performance Test - Agricultural Science Center at Clovis**

**Investigators:** A. Mesbah, A. Scott, and B. Niece

**Test Description**

<b>Location:</b>	<b>Management Practices:</b>	<b>Growing Conditions:</b>
County/Area: Curry	Previous Crop: fallow	
Longitude: -103.22	Planting Date: 8-Jun	
Latitude: 34.60	Harvest Date: 14-Sep	
Elevation: 4435 ft.		
Soil Name: Olton		
Soil Texture: clay loam		
Soil Depth: >60 in.		
	<b>Production Inputs</b>	
	<u>Rate</u> <u>Date</u>	
	<b>Fertilizer:</b>	
	Nitrogen            30 lb/ac            carryover	
	Nitrogen            50 lb/ac            6-Apr	
	Phosphorus        30 lb/ac            6-Apr	
	S                      7.4 lb/ac            6-Apr	
	Chelated Zn        2 qt/ac              6-Apr	
	<b>Herbicides:</b>	
	Atrazine            1.5 pt/ac            9-Jun	
	Warrant            2 qt/ac              9-Jun	
	Buccaneer        1.5 qt/ac            9-Jun	
	Sharpon            1.5 oz/ac            9-Jun	
	Huskie              1 pt/ac              14-Jul	
	Atrazine            1 pt/ac              14-Jul	
	Warrant            1.5 qt/ac            14-Jul	
	<b>Insecticides:</b>	
	Onager              8 oz/ac              16-Aug	
	Oberon             8 oz/ac              16-Aug	
	Prevathon        14 oz/ac            16-Aug	
	Sivanto             7 oz/ac              16-Aug	
<b>Test Design:</b>		
Replications: 3		
Plot Length: 20 ft.		
Rows per Plot: 2		
Row Spacing: 30 in.		
Seeding Rate: 50,000 seed/a		
		Average
		Temp.            Precip.            Irrigation
		°F                  in.                  in.
		January            36.4            0.17
		February          35.4            0.06
		March              47.3            0.06
		April               53.6            0.22              4.00
		May                64.1            1.17
		June                74.9            3.95
		July                74.0            5.59
		August            74.0            2.24
		September       73.0            0.86
		October
		November
		December
		Seasonal Precipitation: 14.0 in.
		Total Irrigation: 4.0 in.
		Date of Last Spring Frost: 22-Apr
		Date of First Fall Frost: 20-Oct
		Frost Free Period: 181 days



**Table 13B. New Mexico 2021 Dryland Forage Sorghum Performance Test - Agricultural Science Center at Clovis - Results**

**Results**

Brand/Company Name	Hybrid/Variety Name	Sorghum Type	Maturity Group	Brown Midrib	Dry Forage	Green Forage	Moisture		CP	ADF	NDF	NDFD 30hr	Ash	TDN	NE <sub>i</sub>	Milk/Ton	Milk/Acre
							Harvest	%									
					t/a	t/a	%	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
Dyna-Gro Seed	Super Sile 30	FS	ME	N	5.5	15.8	68.1	8.4	28.2	50.7	55.8	6.6	64.9	0.667	3178	17547	
Dyna-Gro Seed	5 Star	FS	ME	N	5.2	14.7	67.0	7.9	29.0	51.9	57.2	5.6	68.9	0.712	3456	17804	
Dyna-Gro Seed	F70FS91 BMR	FS	E	Y	4.9	14.0	58.9	8.1	29.7	51.8	57.3	6.3	69.1	0.714	3491	17037	
Dyna-Gro Seed	Super Sile 20	FS	MF	N	4.8	13.6	67.5	8.7	28.3	50.8	54.6	5.9	66.0	0.679	3245	15490	
Dyna-Gro Seed	F72FS05	FS	ME	N	4.8	13.6	64.3	9.2	28.8	51.4	53.6	5.7	65.1	0.669	3174	15109	
Dyna-Gro Seed	F71FS72 BMR	FS	E	Y	4.6	13.0	63.1	8.7	29.3	51.8	54.7	5.8	67.6	0.697	3358	15315	
Dyna-Gro Seed	FX21842	FS	MF	N	4.5	12.9	67.1	8.9	30.0	53.0	55.3	6.3	68.5	0.707	3430	15468	
Mojo Seed	Pearl	FS	M	N	4.5	12.8	65.8	9.2	32.0	52.2	55.9	5.8	67.0	0.691	3318	14910	
Dyna-Gro Seed	F72FS25 BMR	FS	M	Y	4.4	12.6	67.9	9.1	27.5	49.7	58.1	4.7	70.9	0.734	3624	15959	
Dyna-Gro Seed	F74FS72 BMR	FS	MF	Y	4.3	12.3	69.6	9.1	26.9	48.9	54.2	4.9	66.5	0.685	3280	14145	
Dyna-Gro Seed	Sweet Ton MS	FS	MF	N	4.3	12.2	64.9	8.0	27.1	49.2	57.5	4.6	69.6	0.719	3502	14888	
Dyna-Gro Seed	FX21865	FS	MF	N	4.1	11.7	65.6	9.6	27.7	49.7	57.3	5.9	69.3	0.716	3498	14237	
Dyna-Gro Seed	F74FS23 BMR	FS	M	Y	3.7	10.7	66.4	8.8	27.2	48.1	55.3	5.7	66.8	0.688	3306	12389	
Dyna-Gro Seed	FX21815	FS	ME	N	3.6	10.2	65.5	9.1	30.1	52.9	55.6	5.8	67.3	0.693	3330	11882	
Trial Mean					4.5	12.9	65.8	8.8	28.7	51.0	55.9	5.7	67.7	0.698	3371	15155	
LSD					0.5	1.4	1.2	NS	NS	NS	NS	NS	NS	NS	NS	1776	
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					6.6	6.6	1.0	8.9	8.1	4.4	4.0	14.3	3.6	3.9	5.5	7.0	
F Test					<0.0001	<0.0001	<0.0001	0.3112	0.3787	0.2263	0.3590	0.1622	0.1530	0.1518	0.1571	<0.0001	

† Sorghum Type: FS=Forage Sorghum, BD = Brachytic Dwarf, SxS = Sorghum-Sudangrass Hybrid, HPM = Hybrid Pearl Millet

§Maturity Group: E = Early, M = Medium, F = Full, L = Late, PS = Photoperiod Sensitive

Brown Midrib Trait: BMR = (Y) Brown Midrib, (N) Conv = Conventional

**Table 14A. New Mexico 2021 Forage Sorghum Performance Test - Rex E. Kirksey Agricultural Science Center at Tucumcari**

**Investigators:** L.M. Lauriault, G. Martinez, J. Box, P. Cooksey, J. Jennings, and S. Jennings

**Test Description**

Location:	Management Practices:	Growing Conditions:																																																																									
County/Area: Quay Longitude: -103.68 Latitude: 35.20 Elevation: 4086 ft. Soil Name: Canez Soil Texture: Fine sandy loam Soil Depth: >60 in.	Previous Crop: Fallow Planting Date: 28-Jun Harvest Dates: 6-Oct  Production Inputs <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Rate</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td>Fertilizer:</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td style="padding-left: 20px;">Nitrogen</td> <td style="text-align: center;">0 lb/a</td> <td style="text-align: center;">carryover</td> </tr> <tr> <td style="padding-left: 20px;">Nitrogen</td> <td style="text-align: center;">0 lb/a</td> <td></td> </tr> </tbody> </table> Herbicides:  <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="padding-left: 20px;">Roundup Power Max</td> <td style="text-align: center;">3% vol/vol</td> <td style="text-align: center;">1-Jul</td> </tr> <tr> <td style="padding-left: 40px;">Brimstone</td> <td style="text-align: center;">4 pts/A</td> <td style="text-align: center;">1-Jul</td> </tr> <tr> <td style="padding-left: 20px;">Bicep Lite II Magnum</td> <td style="text-align: center;">2 qt/A</td> <td style="text-align: center;">6-Jul</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:	0		Nitrogen	0 lb/a	carryover	Nitrogen	0 lb/a		Roundup Power Max	3% vol/vol	1-Jul	Brimstone	4 pts/A	1-Jul	Bicep Lite II Magnum	2 qt/A	6-Jul	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Average Temp. °F</th> <th style="text-align: center;">Precip. in.</th> <th style="text-align: center;">Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td style="text-align: center;">39</td><td style="text-align: center;">0.18</td><td style="text-align: center;">0.00</td></tr> <tr><td>February</td><td style="text-align: center;">36</td><td style="text-align: center;">0.10</td><td style="text-align: center;">0.00</td></tr> <tr><td>March</td><td style="text-align: center;">50</td><td style="text-align: center;">1.52</td><td style="text-align: center;">0.00</td></tr> <tr><td>April</td><td style="text-align: center;">57</td><td style="text-align: center;">0.13</td><td style="text-align: center;">0.00</td></tr> <tr><td>May</td><td style="text-align: center;">67</td><td style="text-align: center;">2.12</td><td style="text-align: center;">0.00</td></tr> <tr><td>June</td><td style="text-align: center;">78</td><td style="text-align: center;">1.22</td><td style="text-align: center;">0.00</td></tr> <tr><td>July</td><td style="text-align: center;">77</td><td style="text-align: center;">6.51</td><td style="text-align: center;">0.00</td></tr> <tr><td>August</td><td style="text-align: center;">79</td><td style="text-align: center;">2.19</td><td style="text-align: center;">0.00</td></tr> <tr><td>September</td><td style="text-align: center;">75</td><td style="text-align: center;">0.55</td><td style="text-align: center;">0.00</td></tr> <tr><td>October</td><td style="text-align: center;">62</td><td style="text-align: center;">0.98</td><td style="text-align: center;">0.00</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> Seasonal Precipitation  13.6 in. Total Irrigation  0.0 in.  Date of Last Spring Frost: 21-Apr Date of First Fall Frost: 12-Nov Frost Free Period: 205 days		Average Temp. °F	Precip. in.	Irrigation in.	January	39	0.18	0.00	February	36	0.10	0.00	March	50	1.52	0.00	April	57	0.13	0.00	May	67	2.12	0.00	June	78	1.22	0.00	July	77	6.51	0.00	August	79	2.19	0.00	September	75	0.55	0.00	October	62	0.98	0.00	November				December			
	Rate	Date																																																																									
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<b>Test Design:</b> Replications: 4 Plot Length: 20 ft. Rows per Plot: 2 Row Spacing: 30 in.  Seeding Rate: 80,000 seeds/ac																																																																											

**Table 14B. New Mexico 2021 Forage Sorghum Performance Test - Rex E. Kirksey Agricultural Science Center at Tucumcari**

**Results**

Brand/Company Name	Hybrid/Variety Name	Sorghum <sup>†</sup> Type	Maturity Group	Brown Midrib	65% Moisture			CP	NDF	NDFD 48hr	Starch	Ash	TDN	NE <sub>i</sub>	Milk/Ton	Milk/Acre
					Dry Forage	Green Forage	Adj. Moisture at Harvest									
					t/a	t/a	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
Dyna-Gro Seed	SuperSile 30	FS	ME	N	1.6	4.4	65.1	11.3	54.3	64.3	2.0	4.3	70.8	0.485	1931	2980
Dyna-Gro Seed	F72FS05	FS	ME	N	1.5	4.2	62.0	11.4	52.2	64.8	2.8	4.2	72.2	0.484	1899	2763
Dyna-Gro Seed	FX21865	FS	MF	N	1.5	4.2	62.9	11.4	53.5	66.3	2.5	5.4	70.9	0.493	1990	2936
Dyna-Gro Seed	SweetTon MS	FS	MF	N	1.4	3.9	61.4	9.5	49.2	68.3	5.4	3.4	73.7	0.466	1833	2480
Dyna-Gro Seed	F74FS23 BMR	FS	M	Y	1.3	3.6	66.0	11.3	51.0	71.3	2.6	4.4	73.3	0.491	1997	2513
Dyna-Gro Seed	SuperSile 20	FS	MF	N	1.3	3.7	66.7	11.1	53.6	64.3	2.2	4.4	70.9	0.478	1888	2415
Dyna-Gro Seed	F70FS91 BMR	FS	E	Y	1.2	3.5	62.3	11.1	52.4	68.0	2.8	5.0	71.3	0.491	1992	2401
Mojo Seed	Pearl	FS	M	N	1.2	3.4	63.0	11.2	53.6	67.0	2.5	4.7	71.2	0.500	2007	2357
Dyna-Gro Seed	5 Star	FS	ME	N	1.1	3.2	64.5	11.3	54.2	64.0	2.0	3.9	71.1	0.481	1901	2112
Dyna-Gro Seed	F74FS72 BMR	FS	MF	Y	1.1	3.2	63.2	11.4	52.7	68.8	2.2	4.0	72.2	0.495	2023	2270
Dyna-Gro Seed	FX21842	FS	MF	N	1.0	2.8	63.0	11.1	53.9	62.5	2.3	4.3	70.8	0.480	1859	1787
Dyna-Gro Seed	F71FS72 BMR	FS	E	Y	0.9	2.7	60.5	10.8	53.6	65.8	3.2	4.1	71.1	0.489	1968	1818
Dyna-Gro Seed	FX21815	FS	ME	N	0.9	2.5	62.2	11.7	53.6	63.0	2.5	4.1	71.7	0.492	1940	1648
Dyna-Gro Seed	F72FS25 BMR	FS	M	Y	0.7	1.9	62.1	11.5	52.1	69.0	2.2	3.9	72.2	0.492	2000	1310
Trial Mean					1.2	3.4	63.2	11.1	52.9	66.2	2.6	4.3	71.7	0.487	1945	2271
LSD P < 0.05					NS	NS	2.5	0.8	1.7	4.1	0.9	NS	1.3	0.013	77	NS
CV					31.4	31.7	2.8	5.3	2.3	4.4	24.2	21.4	1.3	1.8	2.8	31.2
F Test					0.0602	0.0680	0.0004	0.0025	0.0001	0.0025	0.0001	0.3571	0.0003	0.0005	0.0001	0.0602

<sup>†</sup> Sorghum Type: FS=Forage Sorghum, BD = Brachytic Dwarf, SxS = Sorghum-Sudangrass Hybrid, HPM = Hybrid Pearl Millet

<sup>§</sup>Maturity Group: E = Early, M = Medium, F = Full, PS = Photoperiod Sensitive

Brown Midrib Trait: BMR = (Y) Brown Midrib, (N) Conv = Conventional

**Table 15A. New Mexico 2021 Irrigated Sorghum x Sudangrass Performance Test - Agricultural Science Center at Artesia**

**Investigators:** R. Flynn, R. Pacheco, M. Lopez, and C. Hill

**Test Description**

<p><b>Location:</b></p> <p>County/Area: Eddy          Longitude: -104.22          Latitude: 32.45          Elevation: 3356 ft.          Soil Name: Pima          Soil Texture: silt loam          Soil Depth: 32 in.</p> <p><b>Test Design:</b></p> <p>Replications: 4          Plot Length: 20 ft.          Rows per Plot: 2          Row Spacing: 40 in.</p> <p>Seeding Rate: 63,000 seed/a</p>	<p><b>Management Practices:</b></p> <p>Previous Crop: cotton          Planting Date: 25-Jun          Harvest Date: 24-Aug</p> <p><b>Production Inputs</b></p> <table border="1"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Fertilizer:</b></td> </tr> <tr> <td>Nitrogen</td> <td>100 lb/a</td> <td>25-Apr</td> </tr> <tr> <td>Nitrogen</td> <td>100 lb/a</td> <td>23-Jul</td> </tr> <tr> <td>P<sub>2</sub>O<sub>5</sub></td> <td>96 lb/a</td> <td>25-Apr</td> </tr> </tbody> </table> <p><b>Herbicides:</b></p> <p>None</p> <p><b>Insecticides:</b></p> <p>None</p>		Rate	Date	<b>Fertilizer:</b>			Nitrogen	100 lb/a	25-Apr	Nitrogen	100 lb/a	23-Jul	P <sub>2</sub> O <sub>5</sub>	96 lb/a	25-Apr	<p><b>Growing Conditions:</b></p> <table border="1"> <thead> <tr> <th></th> <th>Average Temp. °F</th> <th>Precip. in.</th> <th>Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>40.0</td><td>0.25</td><td></td></tr> <tr><td>February</td><td>41.4</td><td>0.27</td><td></td></tr> <tr><td>March</td><td>52.0</td><td>0.03</td><td></td></tr> <tr><td>April</td><td>58.2</td><td>1.30</td><td>1.55</td></tr> <tr><td>May</td><td>70.9</td><td>1.00</td><td>4.12</td></tr> <tr><td>June</td><td>80.0</td><td>4.31</td><td>8.74</td></tr> <tr><td>July</td><td>78.2</td><td>1.71</td><td>9.93</td></tr> <tr><td>August</td><td>77.8</td><td>1.91</td><td>3.61</td></tr> <tr><td>September</td><td>74.4</td><td>0.39</td><td></td></tr> <tr><td>October</td><td>62.1</td><td>0.92</td><td></td></tr> <tr><td>November</td><td>51.2</td><td>0.09</td><td></td></tr> <tr><td>December</td><td>50.0</td><td>0.00</td><td></td></tr> </tbody> </table> <p>Seasonal Precipitation  10.23 in.          Total Irrigation 27.94 in.</p> <p>Date of Last Spring Frost: 1-Apr          Date of First Fall Frost: 29-Oct          Frost Free Period: 211 days</p>		Average Temp. °F	Precip. in.	Irrigation in.	January	40.0	0.25		February	41.4	0.27		March	52.0	0.03		April	58.2	1.30	1.55	May	70.9	1.00	4.12	June	80.0	4.31	8.74	July	78.2	1.71	9.93	August	77.8	1.91	3.61	September	74.4	0.39		October	62.1	0.92		November	51.2	0.09		December	50.0	0.00	
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**Table 15B. New Mexico 2021 Irrigated Sorghum x Sudangrass Performance Test - Agricultural Science Center at Artesia**

**Results**

Brand/Company Name	Hybrid/Variety Name	Sorghum <sup>†</sup> Type	Maturity <sup>§</sup> Group	Brown Midrib	Moisture			NDFD					Ash	TDN	NE <sub>l</sub>	RFQ
					Dry Forage	Green Forage	at Harvest	CP	ADF	NDF	30hr	IVTDMD				
					t/a	t/a	%	%	%	%	%	%	%	%		
Dyna-Gro Seed	Fullgraze II	SxS	MF	N	8.4	22.5	62.9	3.3	34.2	60.6	59.8	75.9	4.6	63.6	0.654	105
Sorghum Partners	Sordan Headless	SxS	PS	N	7.8	26.1	70.3	5.0	33.3	54.2	68.0	82.1	5.9	64.6	0.665	123
Dyna-Gro Seed	Danny Boy II BMR	SxS	PS	Y	7.1	26.0	72.3	4.8	32.3	54.8	75.8	84.3	6.0	65.7	0.677	136
Dyna-Gro Seed	Fullgraze II BMR	SxS	MF	Y	6.6	20.8	69.0	4.3	32.1	55.8	70.0	81.1	5.3	66.0	0.680	130
Dyna-Gro Seed	Dynagraze II BMR	SxS	ME	Y	6.5	18.6	65.2	4.3	34.4	56.9	61.3	77.4	7.1	63.3	0.651	106
Dyna-Gro Seed	Sweet Ton MS	FS	MF	N	6.4	19.7	67.9	6.1	27.8	45.3	73.3	86.2	6.1	70.9	0.735	148
Sorghum Partners	Sordan 79	SxS	M	N	5.5	16.9	68.5	4.2	39.3	62.7	48.8	67.6	8.6	57.8	0.589	80
Sorghum Partners	SP 4555	SxS	M	Y	5.4	16.0	66.1	4.8	38.0	60.3	57.3	72.2	9.4	59.2	0.605	91
Dyna-Gro Seed	Super Sweet 10	SxS	ME	N	5.1	14.7	66.0	4.8	37.5	59.2	50.8	70.8	8.2	59.8	0.612	93
Dyna-Gro Seed	First Graze	SxS	ME	N	5.1	14.6	64.8	5.1	37.3	57.7	53.3	71.8	8.8	60.1	0.615	91
Sorghum Partners	SP 4105	SxS	PS	Y	5.0	18.9	74.2	5.6	36.1	57.9	62.3	77.3	8.9	61.4	0.629	114
Dyna-Gro Seed	Dynagraze II	SxS	ME	N	4.9	14.7	66.0	4.3	37.5	58.8	52.0	70.9	9.0	59.8	0.611	89
Trial Mean					6.1	19.1	67.8	4.7	35.0	57.0	61.0	76.5	7.3	62.7	0.643	109
LSD (P < 0.05)					1.4	3.9	3.0	0.8	2.2	3.2	5.4	3.3	0.9	2.5	0.028	13
CV					15.3	14.1	3.1	11.8	4.4	3.9	6.1	3.0	8.7	2.8	3.1	8.3
F Test					<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

<sup>†</sup> Sorghum Type: FS=Forage Sorghum, BD = Brachytic Dwarf, GS = Grain Sorghum, SxS = Sorghum-Sudangrass Hybrid, PM = Pearl Millet

<sup>§</sup>Maturity Group: E = Early, M = Medium, F = Full, L = Late, PS = Photoperiod Sensitive

Brown Midrib Trait: BMR (Y) = Brown Midrib, Conv (N) = Conventional

**Table 16A. New Mexico 2021 Forage Sorghum & Sorghum x Sudan Performance Test - Rex E. Kirksey Agricultural Science Center at Tucumcari**

**Investigators:** L.M. Lauriault, G. Martinez, J. Box, P. Cooksey, J. Jennings, and S. Jennings

**Test Description**

Location:	Management Practices:	Growing Conditions:																																																																																					
County/Area: Quay Longitude: -103.68 Latitude: 35.20 Elevation: 4086 ft. Soil Name: Canez Soil Texture: Fine sandy loam Soil Depth: >60 in.	Previous Crop: Fallow Planting Date: 6-Jul Harvest Dates: 6-Oct  Production Inputs <hr/> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Rate</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td colspan="3">Fertilizer:</td> </tr> <tr> <td style="padding-left: 40px;">Nitrogen</td> <td style="text-align: center;">lb/a</td> <td style="text-align: center;">carryover</td> </tr> <tr> <td style="padding-left: 40px;">Nitrogen</td> <td style="text-align: center;">0 lb/a</td> <td></td> </tr> </tbody> </table> Herbicides:  <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="padding-left: 40px;">Roundup Power Max</td> <td style="text-align: center;">3% vol/vol</td> <td style="text-align: center;">1-Jul</td> </tr> <tr> <td style="padding-left: 80px;">Brimstone</td> <td style="text-align: center;">4 pts/A</td> <td style="text-align: center;">1-Jul</td> </tr> <tr> <td style="padding-left: 40px;">Bicep Lite II Magnum</td> <td style="text-align: center;">2 qt/A</td> <td style="text-align: center;">6-Jul</td> </tr> </tbody> </table>		Rate	Date	Fertilizer:			Nitrogen	lb/a	carryover	Nitrogen	0 lb/a		Roundup Power Max	3% vol/vol	1-Jul	Brimstone	4 pts/A	1-Jul	Bicep Lite II Magnum	2 qt/A	6-Jul	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Average Temp. °F</th> <th style="text-align: center;">Precip. in.</th> <th style="text-align: center;">Irrigation in.</th> </tr> </thead> <tbody> <tr><td>January</td><td style="text-align: center;">39</td><td style="text-align: center;">0.18</td><td style="text-align: center;">0.00</td></tr> <tr><td>February</td><td style="text-align: center;">36</td><td style="text-align: center;">0.10</td><td style="text-align: center;">0.00</td></tr> <tr><td>March</td><td style="text-align: center;">50</td><td style="text-align: center;">1.52</td><td style="text-align: center;">0.00</td></tr> <tr><td>April</td><td style="text-align: center;">57</td><td style="text-align: center;">0.13</td><td style="text-align: center;">0.00</td></tr> <tr><td>May</td><td style="text-align: center;">67</td><td style="text-align: center;">2.12</td><td style="text-align: center;">0.00</td></tr> <tr><td>June</td><td style="text-align: center;">78</td><td style="text-align: center;">1.22</td><td style="text-align: center;">0.00</td></tr> <tr><td>July</td><td style="text-align: center;">77</td><td style="text-align: center;">6.51</td><td style="text-align: center;">0.00</td></tr> <tr><td>August</td><td style="text-align: center;">79</td><td style="text-align: center;">2.19</td><td style="text-align: center;">0.00</td></tr> <tr><td>September</td><td style="text-align: center;">75</td><td style="text-align: center;">0.55</td><td style="text-align: center;">0.00</td></tr> <tr><td>October</td><td style="text-align: center;">62</td><td style="text-align: center;">0.98</td><td style="text-align: center;">0.00</td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="padding-left: 40px;">Seasonal Precipitation</td> <td style="text-align: center;">11.5 in.</td> </tr> <tr> <td style="padding-left: 40px;">Total Irrigation</td> <td style="text-align: center;">0.0 in.</td> </tr> </tbody> </table> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="padding-left: 40px;">Date of Last Spring Frost:</td> <td style="text-align: center;">21-Apr</td> </tr> <tr> <td style="padding-left: 40px;">Date of First Fall Frost:</td> <td style="text-align: center;">12-Nov</td> </tr> <tr> <td style="padding-left: 40px;">Frost Free Period:</td> <td style="text-align: center;">205 days</td> </tr> </tbody> </table>				Average Temp. °F	Precip. in.	Irrigation in.	January	39	0.18	0.00	February	36	0.10	0.00	March	50	1.52	0.00	April	57	0.13	0.00	May	67	2.12	0.00	June	78	1.22	0.00	July	77	6.51	0.00	August	79	2.19	0.00	September	75	0.55	0.00	October	62	0.98	0.00	November				December				Seasonal Precipitation	11.5 in.	Total Irrigation	0.0 in.	Date of Last Spring Frost:	21-Apr	Date of First Fall Frost:	12-Nov	Frost Free Period:	205 days
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<b>Test Design:</b> Replications: 4 Plot Length: 20 ft. Rows per Plot: 8 Row Spacing: 6 in.  Seeding Rate: 25 lb/ac																																																																																							

**Table 16B. New Mexico 2021 Forage Sorghum & Sorghum x Sudan Performance Test - Rex E. Kirksey Agricultural Science Center at Tucumcari**

**Results**

Brand/Company Name	Hybrid/Variety Name	Sorghum <sup>†</sup> Type	Maturity Group	Brown Midrib	Dry Forage	65% Moisture Adj. Moisture		CP	NDF	NDFD			Ash	TDN	NE <sub>i</sub>	Milk/Ton	Milk/Acre
						Green Forage	at Harvest			48hr	Starch	%					
					t/a	t/a	%	%	%	%	%	%	%	Mcal/lb	lb/t	lb/a	
Dyna-Gro Seed	Dynagraze II BMR	SxS	ME	Y	1.6	4.6	61.7	12.1	54.9	65.0	2.0	4.2	70.7	0.507	2078	3304	
Dyna-Gro Seed	Fullgraze II BMR	SxS	MF	Y	1.6	4.5	64.4	12.4	54.8	64.5	1.7	4.3	71.4	0.504	2055	3227	
Dyna-Gro Seed	SuperSweet 10	SxS	ME	N	1.6	4.7	59.9	11.1	56.0	59.5	2.6	3.6	69.5	0.485	1901	3112	
Dyna-Gro Seed	First Graze	SxS	ME	N	1.5	4.3	61.0	11.3	55.2	61.8	2.5	3.9	70.3	0.489	1942	2899	
Dyna-Gro Seed	Fullgraze II	SxS	MF	N	1.5	4.1	63.7	11.1	55.7	63.3	1.9	3.3	70.9	0.493	1971	2856	
Dyna-Gro Seed	Danny Boy II BMR	SxS	PS	Y	1.2	3.5	64.4	12.9	53.9	67.0	1.5	5.0	71.0	0.513	2127	2597	
Dyna-Gro Seed	Dynagraze II	SxS	ME	N	1.1	3.2	60.9	11.4	56.2	59.5	2.2	3.6	69.4	0.493	1908	2152	
Mojo Seed	Pearl	FS	M	N	1.1	3.0	62.7	12.9	55.3	63.5	1.2	4.7	70.7	0.506	2087	2144	
Dyna-Gro Seed	SweetTon MS	FS	MF	N	1.1	3.2	63.3	11.7	52.1	68.3	1.4	4.3	71.7	0.485	1956	2175	
Trial Mean					1.4	3.9	62.5	11.9	54.9	63.6	1.9	4.1	70.6	0.497	2003	2718	
LSD P < 0.05					NS	NS	2.3	0.7	1.5	3.4	0.8	0.9	1.2	0.009	65	NS	
CV					31.3	30.9	2.5	4.1	1.9	3.7	28.7	15.5	1.2	1.2	2.2	30.5	
F Test					0.3376	0.0386	0.0018	0.0001	0.0004	0.0001	0.0104	0.0168	0.0100	0.0001	0.0001	0.2980	

<sup>†</sup> Sorghum Type: FS=Forage Sorghum, BD = Brachytic Dwarf, SxS = Sorghum-Sudangrass Hybrid, HPM = Hybrid Pearl Millet

<sup>§</sup>Maturity Group: E = Early, M = Medium, F = Full, PS = Photoperiod Sensitive

Brown Midrib Trait: BMR = (Y) Brown Midrib, (N) Conv = Conventional

## Appendix A

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



## New Mexico 2021 Grain Corn Hybrid Performance Test

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<b>Company/Brand Name</b>	<b>Hybrid/Variety Name</b>	<b>Relative Maturity</b>
<b>Dyna-Gro Seed</b>	D52DC82	112
P.O. Box 38, 103 E. Mill Rd	D53TC19	113
Artesia, NM 88210	D54SS34	114
Shawn Carter	D54SS74	114
318-282-9804	D54VC14	114
	D55VC80	115
	D57TC29	117
	D57VC17	117
	D58VC65	118
	D43SS81	103
	D44SS54	104
	D45TC55	105
	D48QZ22	108
	D49SS70	109
	D50VC09	109
	D50VC78	110
	D51VC41	111
	D51SS61	111

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## New Mexico 2021 Forage Corn Hybrid Performance Test

<b>Company/Brand Name</b>	<b>Hybrid/Variety Name</b>	<b>Relative Maturity</b>
<b>Bayer/Dekalb</b> 23751 Hix Rd Canyon, TX 79015 Kyle Lawles 806-445-4716	DKC67-66	117
	DKC70-64	120
	DKC64-44	114
	DKC61-80	111
<b>BH Genetics</b> 5933 FM 1157 Ganado, TX 77962 Travis Janak	BH 8400PCE	114
	BH 8732VT2P	117
	BH 8690VIP3111	116
	BH 8703VIP3110	117
	BY 8705VIP3110	117
	X20044VIP3110	114
	XP 8670TRE	116
	X21042	114
	BH 8704VIP3110	117
<b>Dyna-Gro Seed</b> P.O. Box 38, 103 E. Mill Rd Artesia, NM 88210 Shawn Carter 318-282-9804	D52DC82	112
	D53TC19	113
	D54VC14	114
	D55VC80	115
	D57TC29	117
	D57VC17	117
	D58VC65	118
	D58VC90	118
	D58QC72	118
<b>Wilbur-Ellis/Integra</b> 87194 494th Ave. O'Neill, NE 68763 Aaron Peterson 402-290-0373	Integra 6621 SS	116
	Integra 6641 SS	116
	Integra 6695 TRE	116
	Integra 6709 VT2P	117
	Integra 6720 SS	117
	Integra 9678 VT2P	117
	Integra 6811 VT2P	118
	Integra 6880 VT2P	118
	Integra 6891 3110	118
	Integra CX001118 VT2P	118
Integra CX001117 TRE	117	

## New Mexico 2021 Grain Sorghum Hybrid Performance Test

Company/Brand Name	Hybrid/Variety Name	Maturity Group*
<b>Dyna-Gro Seed</b> P.O. Box 38, 103 E. Mill Rd Artesia, NM 88210 Shawn Carter 318-282-9804	M54GR24	VE
	M59GB57	E
	M59GB94	E
	M60GB31	ME
	M60GB88	ME
	GX20973	ME
	M63GB78	M
	GX20998	M
	M67GB87	M
	GX20970	MF
	GX21965	MF
	M71GR91	MF
	M72GB71	MF
<b>S&amp;W Seed Co. / Sorghum Partners</b> 2101 Ken Pratt Blvd, Suite 201 Longmont, CO 80501 Scott Staggborg 720-647-8180	SP 25C10	E
	SP 43M80	ME
	SP 68M57	M
	SP 251	E

\*E=early, ME=medium early, ML or MF=medium late or medium full, L=late / F=full

## New Mexico 2021 Forage Sorghum/SxS Hybrid Performance Test (Single Cut)

Company/Brand Name	Hybrid/Variety Name	Forage Type	Maturity Group*	Brown Midrib
<b>Dyna-Gro Seed</b> P.O. Box 38, 103 E. Mill Rd Artesia, NM 88210 Shawn Carter 318-282-9804	F70FS91 BMR	FS	E	Y
	F71FS72 BMR	FS	E	Y
	5 Star	FS	ME	N
	F72FS05	FS	ME	N
	FX21815	FS	ME	N
	Super Sile 30	FS	ME	N
	F72FS25 BMR	FS	M	Y
	F74FS23 BMR	FS	M	Y
	F74FS72 BMR	FS	MF	Y
	Sweet Ton MS	FS	MF	N
	Super Sile 20	FS	MF	N
	FX21865	FS	MF	N
	FX21842	FS	MF	N
<b>Mojo Seed Enterprises</b> P.O. Box 1716 Hereford, TX 79045 Jerry O'Rear 806-445-6442	Pearl	FS	M	N
	Opal	FS	ML	N
<b>S&amp;W Seed Co. / Sorghum Partners</b> 2101 Ken Pratt Blvd, Suite 201 Longmont, CO 80501 Scott Staggenborg 720-647-8180	NK300	FS	ME	N
	SS405	FS	MF	N
	SP 3904 BD BMR	FS	MF	Y
	SP 3905 BD BMR	FS	ME	Y
<b>Wilbur-Ellis/Integra</b> 87194 494th Ave. O'Neill, NE 68763 Aaron Peterson 402-290-0373	Integra 38F80	FS	ML	N
	Integra 33F70	FS	L	Y
	Integra 34F95	FS	ME	Y

\*E=early, ME=medium early, ML or MF=medium late or medium full, L=late / F=full, PS=photoperiod sensitive

## New Mexico 2021 Forage Sorghum/SxS Hybrid Performance Test (Multi Cut \*\*)

Company/Brand Name	Hybrid/Variety Name	Forage Type	Maturity Group*	Brown Midrib
<b>Dyna-Gro Seed</b> P.O. Box 38, 103 E. Mill Rd Artesia, NM 88210 Shawn Carter 318-282-9804	Danny Boy II BMR	SxS	PS	Y
	First Graze	SxS	ME	
	Super Sweet 10	SxS	ME	
	Dynagraze II	SxS	ME	
	Dynagraze II BMR	SxS	ME	Y
	Fullgraze II	SxS	MF	
	Fullgraze II BMR	SxS	MF	Y
	Sweet Ton MS	FS	MF	
<b>S&amp;W Seed Co. / Sorghum Partners</b> 2101 Ken Pratt Blvd, Suite 201 Longmont, CO 80501 Scott Staggenborg 720-647-8180	SP 4105	SxS	PPS	Y
	SP 4555	SxS	M	Y
	Sordan 79	SxS	M	N
	Sordan Headless	SxS	PPS	N

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\*\* All trials were cut only once in 2021.

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 Silk: Days to 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.

IVTDMD: In vitro true dry matter digestibility.

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 nutritive value. Milk/ton is calculated from the Milk2006 Excel spreadsheet <http://www.uwex.edu/ces/forage/pubs/milk2006.xls>. 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 (Neutral Detergent Fiber Digestibility – 30 or 48hr):** NDFD is a measure of either 30-hr or 48-hr digestibility of the NDF component. The NDFD procedure employs an *in vitro* fermentation. NDFD is expressed as a percent of NDF.

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

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

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

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

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

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

**Silk Date:** Silk Date is the date when 50% of ears have silks fully emerged.

**Starch:** Starch is the percentage of starch in the ground forage sample.

**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.





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