

**New Mexico  
2017  
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

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Thanks to:

B. Niece and A. Scott, Senior Research Assistant and Farm/Ranch Manager, respectively, Agricultural Science Center at Clovis  
M.M. West, Agricultural Research Scientist, Agricultural Science Center at Farmington  
C. Havlik and M. Place, Senior Research Assistant and Farm/Ranch Manager, respectively, Agricultural Science Center at Los Lunas  
R. Pacheco and S. Bustillos, Research Assistant and Farm Supervisor, respectively, Agricultural Science Center at Artesia  
J. Box, A. Cunningham, P. Cooksey, J. Jennings, S. Jennings, and H. A. Williams, Farm/Ranch Manager, Sr. Research Assistant, Assoc. Admin. Assistant, and Senior Farm Laborers, respectively, Agricultural Science Center at Tucumcari

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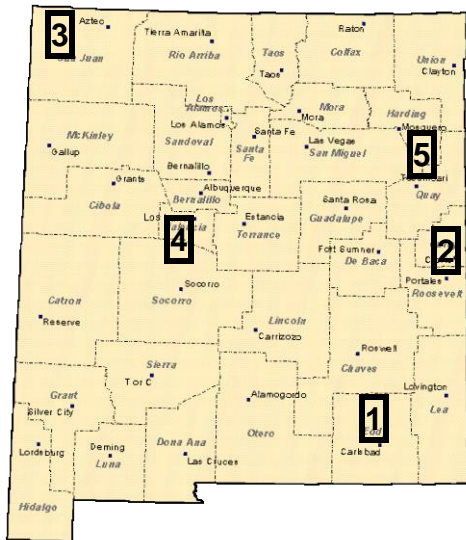
# New Mexico 2017 Corn and Sorghum Performance Tests

## INTRODUCTION

Performance tests for grain corn, grain sorghum, forage corn, forage sorghum and sorghum sudangrass were conducted at the Agricultural Science Centers at Artesia, Clovis, Farmington, Los Lunas, and Tucumcari New Mexico in 2017 (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.

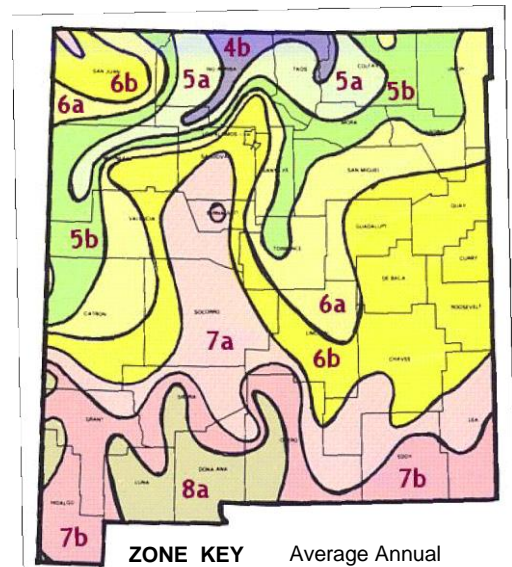


Table 1. Historical average monthly precipitation (inches) and temperatures (°F) for cooperating agricultural science centers.

|                                 | Artesia | Clovis | Farmington | Los Lunas | Tucumcari |
|---------------------------------|---------|--------|------------|-----------|-----------|
| <b>Precipitation (inches)</b>   |         |        |            |           |           |
| January                         | 0.39    | 0.35   | 0.53       | 0.36      | 0.37      |
| February                        | 0.42    | 0.38   | 0.56       | 0.41      | 0.47      |
| March                           | 0.43    | 0.72   | 0.71       | 0.50      | 0.75      |
| April                           | 0.62    | 0.81   | 0.63       | 0.46      | 1.10      |
| May                             | 1.20    | 1.93   | 0.55       | 0.46      | 1.97      |
| June                            | 1.40    | 2.39   | 0.20       | 0.61      | 1.87      |
| July                            | 1.76    | 2.75   | 0.87       | 1.25      | 2.62      |
| August                          | 1.67    | 3.03   | 1.06       | 1.70      | 2.70      |
| September                       | 1.81    | 1.84   | 1.02       | 1.17      | 1.53      |
| October                         | 1.16    | 1.66   | 0.92       | 1.04      | 1.28      |
| November                        | 0.53    | 0.52   | 0.72       | 0.46      | 0.66      |
| December                        | 0.51    | 0.50   | 0.48       | 0.52      | 0.57      |
| Total                           | 11.88   | 16.89  | 8.25       | 8.93      | 15.90     |
| <b>Average Temperature (°F)</b> |         |        |            |           |           |
| January                         | 40.5    | 37.7   | 30.3       | 34.3      | 38.5      |
| February                        | 45.2    | 41.3   | 36.2       | 40.2      | 42.3      |
| March                           | 52.0    | 48.0   | 44.0       | 47.2      | 49.4      |
| April                           | 60.5    | 56.2   | 51.0       | 54.8      | 57.7      |
| May                             | 69.1    | 64.5   | 60.0       | 63.4      | 66.3      |
| June                            | 77.7    | 74.0   | 70.5       | 72.7      | 75.8      |
| July                            | 79.8    | 76.5   | 75.7       | 76.9      | 79.2      |
| August                          | 78.4    | 74.8   | 73.3       | 74.8      | 77.4      |
| September                       | 71.7    | 68.5   | 66.0       | 67.4      | 70.7      |
| October                         | 61.1    | 58.3   | 54.0       | 55.9      | 59.7      |
| November                        | 48.9    | 46.5   | 42.0       | 43.6      | 47.7      |
| December                        | 40.8    | 38.8   | 31.3       | 35.1      | 39.4      |
| Average                         | 60.4    | 57.0   | 52.8       | 55.7      | 58.7      |

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

## TEST LOCATIONS

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

A list of seed companies that participated in the 2017 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 2018 Corn and Sorghum Performance Tests will be mailed to seed companies in February 2018. Additional 2018 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 (150°F) for determination of moisture content. Moisture content determinations at Farmington were derived from air-dried samples. Sub-samples of the dried material from all locations were submitted to an NFTA-certified forage testing laboratory for nutrient composition analysis using near infrared

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

## RESULTS

Results for the 2017 corn and sorghum variety tests are shown in Tables 2-15 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.

**The grain sorghum test at Tucumcari was not harvested due to extensive bird damage; the multi-cut forage sorghum/sorghum x sudangrass test at Tucumcari was not harvested due to poor plant establishment.**



**Table 2A. New Mexico 2017 Grain 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<br>Longitude: -103.22<br>Latitude: 34.60<br>Elevation: 4435 ft.<br>Soil Name: Olton<br>Soil Texture: clay loam<br>Soil Depth: >60 in. | Previous Crop: fallow<br>Planting Date: 18-May<br>Harvest Date: 30-Oct<br><br><b>Production Inputs</b><br><table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Rate</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Fertilizer:</b></td> </tr> <tr> <td>Nitrogen</td> <td>36 lb/a</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>15 lb/a</td> <td>18-Apr</td> </tr> <tr> <td>P<sub>2</sub>O<sub>5</sub></td> <td>50 lb/a</td> <td>18-Apr</td> </tr> <tr> <td>Zn</td> <td>3 qt/ac</td> <td>18-Apr</td> </tr> <tr> <td>Nitrogen</td> <td>152 lb/ac</td> <td>at plant</td> </tr> <tr> <td>S</td> <td>27.5 lb/ac</td> <td>at plant</td> </tr> <tr> <td>Nitrogen</td> <td>50 lb/ac</td> <td>2-Aug</td> </tr> <tr> <td>S</td> <td>9 lb/ac</td> <td>2-Aug</td> </tr> <tr> <td colspan="3"><b>Herbicides:</b></td> </tr> <tr> <td>Atrazine</td> <td>1 pt/a</td> <td>at plant</td> </tr> <tr> <td>Balance Flex</td> <td>2 oz/ac</td> <td>at plant</td> </tr> <tr> <td>Diflex</td> <td>8 oz/ac</td> <td>at plant</td> </tr> <tr> <td>Charger Basic</td> <td>1 pt/ac</td> <td>at plant</td> </tr> <tr> <td>Glyphosate</td> <td>40 oz/ac</td> <td>at plant</td> </tr> <tr> <td>Diflex</td> <td>10 oz/ac</td> <td>20-Jun</td> </tr> <tr> <td>Brawl</td> <td>1 pt/ac</td> <td>20-Jun</td> </tr> <tr> <td colspan="3"><b>Insecticides:</b></td> </tr> <tr> <td>Onager</td> <td>14 oz/ac</td> <td>20-Jun</td> </tr> <tr> <td>Belt SC</td> <td>3 oz/ac</td> <td>3-Aug</td> </tr> <tr> <td>Oberon</td> <td>8 oz/ac</td> <td>3-Aug</td> </tr> </tbody> </table> |                            | Rate              | Date | <b>Fertilizer:</b> |  |  | Nitrogen | 36 lb/a | carryover | Nitrogen | 15 lb/a | 18-Apr | P <sub>2</sub> O <sub>5</sub> | 50 lb/a | 18-Apr | Zn | 3 qt/ac | 18-Apr | Nitrogen | 152 lb/ac | at plant | S | 27.5 lb/ac | at plant | Nitrogen | 50 lb/ac | 2-Aug | S | 9 lb/ac | 2-Aug | <b>Herbicides:</b> |  |  | Atrazine | 1 pt/a | at plant | Balance Flex | 2 oz/ac | at plant | Diflex | 8 oz/ac | at plant | Charger Basic | 1 pt/ac | at plant | Glyphosate | 40 oz/ac | at plant | Diflex | 10 oz/ac | 20-Jun | Brawl | 1 pt/ac | 20-Jun | <b>Insecticides:</b> |  |  | Onager | 14 oz/ac | 20-Jun | Belt SC | 3 oz/ac | 3-Aug | Oberon | 8 oz/ac | 3-Aug | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Average<br/>Temp.<br/>°F</th> <th style="text-align: center;">Precip.<br/>in.</th> <th style="text-align: center;">Irrigation<br/>in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>36.5</td><td></td><td></td></tr> <tr><td>February</td><td>45.8</td><td></td><td></td></tr> <tr><td>March</td><td>51.7</td><td></td><td></td></tr> <tr><td>April</td><td>55.5</td><td></td><td></td></tr> <tr><td>May 1-18</td><td>61.4</td><td>1.24</td><td>0.05</td></tr> <tr><td>June</td><td>74.1</td><td>1.02</td><td>1.80</td></tr> <tr><td>July</td><td>77.0</td><td>2.18</td><td>6.50</td></tr> <tr><td>August</td><td>71.0</td><td>7.87</td><td>0.21</td></tr> <tr><td>September</td><td>67.0</td><td>4.13</td><td>0.80</td></tr> <tr><td>October</td><td>56.5</td><td>2.04</td><td>0.00</td></tr> <tr><td>November</td><td>50.0</td><td></td><td></td></tr> <tr><td>December</td><td>38.0</td><td></td><td></td></tr> <tr> <td>Seasonal Precipitation:</td> <td></td> <td>18.5 in.</td> <td></td> </tr> <tr> <td>Total Irrigation:</td> <td></td> <td>9.4 in.</td> <td></td> </tr> <tr> <td>Date of Last Spring Frost:</td> <td></td> <td>1-May</td> <td></td> </tr> <tr> <td>Date of First Fall Frost:</td> <td></td> <td>10-Oct</td> <td></td> </tr> <tr> <td>Frost Free Period:</td> <td></td> <td>162 days</td> <td></td> </tr> </tbody> </table> |  | Average<br>Temp.<br>°F | Precip.<br>in. | Irrigation<br>in. | January | 36.5 |  |  | February | 45.8 |  |  | March | 51.7 |  |  | April | 55.5 |  |  | May 1-18 | 61.4 | 1.24 | 0.05 | June | 74.1 | 1.02 | 1.80 | July | 77.0 | 2.18 | 6.50 | August | 71.0 | 7.87 | 0.21 | September | 67.0 | 4.13 | 0.80 | October | 56.5 | 2.04 | 0.00 | November | 50.0 |  |  | December | 38.0 |  |  | Seasonal Precipitation: |  | 18.5 in. |  | Total Irrigation: |  | 9.4 in. |  | Date of Last Spring Frost: |  | 1-May |  | Date of First Fall Frost: |  | 10-Oct |  | Frost Free Period: |  | 162 days |  |
|  | Rate  | Date                       |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| <b>Fertilizer:</b>   |   |                            |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Nitrogen   | 36 lb/a   | carryover                  |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Nitrogen   | 15 lb/a   | 18-Apr                     |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| P <sub>2</sub> O <sub>5</sub>  | 50 lb/a   | 18-Apr                     |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Zn   | 3 qt/ac   | 18-Apr                     |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Nitrogen   | 152 lb/ac   | at plant                   |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| S  | 27.5 lb/ac  | at plant                   |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Nitrogen   | 50 lb/ac  | 2-Aug                      |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| S  | 9 lb/ac   | 2-Aug                      |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| <b>Herbicides:</b>   |   |                            |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Atrazine   | 1 pt/a  | at plant                   |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Balance Flex   | 2 oz/ac   | at plant                   |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Diflex   | 8 oz/ac   | at plant                   |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Charger Basic  | 1 pt/ac   | at plant                   |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Glyphosate   | 40 oz/ac  | at plant                   |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Diflex   | 10 oz/ac  | 20-Jun                     |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Brawl  | 1 pt/ac   | 20-Jun                     |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| <b>Insecticides:</b>   |   |                            |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Onager   | 14 oz/ac  | 20-Jun                     |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Belt SC  | 3 oz/ac   | 3-Aug                      |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Oberon   | 8 oz/ac   | 3-Aug                      |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
|  | Average<br>Temp.<br>°F  | Precip.<br>in.             | Irrigation<br>in. |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| January  | 36.5  |                            |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| February   | 45.8  |                            |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| March  | 51.7  |                            |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| April  | 55.5  |                            |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| May 1-18   | 61.4  | 1.24                       | 0.05              |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| June   | 74.1  | 1.02                       | 1.80              |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| July   | 77.0  | 2.18                       | 6.50              |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| August   | 71.0  | 7.87                       | 0.21              |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| September  | 67.0  | 4.13                       | 0.80              |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| October  | 56.5  | 2.04                       | 0.00              |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| November   | 50.0  |                            |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| December   | 38.0  |                            |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Seasonal Precipitation:  |   | 18.5 in.                   |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Total Irrigation:  |   | 9.4 in.                    |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Date of Last Spring Frost:   |   | 1-May                      |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Date of First Fall Frost:  |   | 10-Oct                     |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Frost Free Period:   |   | 162 days                   |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| <b>Test Design:</b><br>Replications: 3<br>Plot Length: 20 ft.<br>Rows per Plot: 2<br>Row Spacing: 30 in.<br>Seeding Rate: 27,000 seed/a                  |   |                            |                   |      |                    |  |  |          |         |           |          |         |        |                               |         |        |    |         |        |          |           |          |   |            |          |          |          |       |   |         |       |                    |  |  |          |        |          |              |         |          |        |         |          |               |         |          |            |          |          |        |          |        |       |         |        |                      |  |  |        |          |        |         |         |       |        |         |       |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |          |      |      |      |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |      |          |      |  |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |

**Table 2B. New Mexico 2017 Grain Corn Performance Test - Agricultural Science Center at Clovis**

**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> |
|---------------------------|----------------------------|--------------------|----------------------------|--------------------|---------------------|-------------------|------------------|
|                           |                            | bu/a               | %                          | lb/bu              | in                  | in                |                  |
| Syngenta Seeds            | G15Q98-3000 GT             | 289.3              | 16.0                       | 60.6               | 120.1               | 53.2              | 25-Jul           |
| Dyna-Gro Seed             | D55VP77 RIB                | 274.8              | 16.0                       | 61.8               | 105.4               | 53.4              | 21-Jul           |
| Pioneer                   | 1197                       | 274.4              | 15.8                       | 60.9               | 114.6               | 52.1              | 26-Jul           |
| Syngenta Seeds            | G11B63                     | 272.2              | 16.0                       | 60.6               | 106.8               | 47.2              | 24-Jul           |
| Pioneer                   | 1151                       | 265.6              | 16.0                       | 62.8               | 121.0               | 46.4              | 24-Jul           |
| Dyna-Gro Seed             | D58VC37 RIB                | 262.5              | 16.0                       | 62.1               | 120.1               | 49.6              | 22-Jul           |
| Dyna-Gro Seed             | D57VP51 RIB                | 260.0              | 15.8                       | 62.9               | 120.7               | 46.7              | 19-Jul           |
| Syngenta Seeds            | N76A-3000 GT               | 251.0              | 15.9                       | 58.8               | 107.5               | 44.0              | 25-Jul           |
| Pioneer                   | 1602                       | 246.4              | 16.0                       | 62.8               | 121.4               | 51.2              | 23-Jul           |
| Pioneer                   | 1625                       | 244.8              | 16.1                       | 62.4               | 116.1               | 47.6              | 22-Jul           |
| Dyna-Gro Seed             | D54VC52 RIB                | 243.4              | 15.8                       | 62.9               | 115.4               | 52.4              | 19-Jul           |
| Dyna-Gro Seed             | D52SS91                    | 243.1              | 15.9                       | 61.5               | 104.5               | 55.9              | 22-Jul           |
| Dyna-Gro Seed             | D57VP75VT3P                | 242.8              | 16.0                       | 60.9               | 115.2               | 53.5              | 22-Jul           |
| Syngenta Seeds            | G18 D87-3111               | 241.1              | 16.1                       | 62.3               | 113.0               | 52.2              | 22-Jul           |
| Syngenta Seeds            | N73Y-3111                  | 238.6              | 15.9                       | 58.4               | 112.3               | 49.2              | 24-Jul           |
| Dyna-Gro Seed             | D58QC72 RIB                | 227.6              | 16.2                       | 62.5               | 119.2               | 42.3              | 25-Jul           |
|                           | Trial Mean                 | 254.8              | 15.9                       | 61.4               | 114.6               | 49.8              | 23-Jul           |
|                           | LSD (P > 0.05)             | 34.8               | 0.3                        | 0.6                | 2.8                 | 2.3               | 3                |
|                           | CV                         | 8.2                | 1.3                        | 0.6                | 1.4                 | 2.7               | 1.0              |
|                           | F Test                     | 0.0500             | <.0001                     | <.0001             | <.0001              | <.0001            | 0.0056           |

**Table 3A. New Mexico 2017 Early Season Grain Corn Performance Test - Agricultural Science Center at Farmington**

**Investigators:** O'Neill, M.K., M.M. West, and D. Begay

**Test Description**

| <b>Location:</b>   | <b>Management Practices:</b>   | <b>Growing Conditions:</b> |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
|--|--|----------------------------|-------------------|------|--------------------|--|--|--------------|-----------|-------|----------|-----------|--------|----------|-----------|-------|----------|-----------|-------|----------|-----------|--------|----------|-----------|--------|----------|-----------|-------|----------|-----------|--------|----------|-----------|--------|----------|-----------|--------|----------|-----------|--------|----------|-----------|--------|----------|-----------|-------|-----------------------|-------------------|--|-----------------------------------|---------|-------|----------------------|---------|-------|-------------------|--------|-------|--------------------|--|--|---------|---------|--------|-----------|--------|--------|------------------|-----------|--------|--|--|------------------------|----------------|-------------------|---------|--|--|--|----------|--|--|--|-------|--|--|--|-------|--|--|--|-----|------|------|-----|------|------|------|-----|------|------|------|-----|--------|------|------|-----|-----------|------|------|-----|---------|------|------|--|----------|--|--|--|----------|--|--|--|------------------------|--|---------|--|------------------|--|----------|--|----------------------------|--------|--|--|---------------------------|--------|--|--|--------------------|----------|--|--|
| County/Area: San Juan<br>Longitude: -108.306<br>Latitude: 36.6812<br>Elevation: 5,640 ft.<br>Soil Name: Wall<br>Soil Texture: sandy loam<br>Soil Depth: > 75 in.                 | Previous Crop: 2016 fallow, 2015 W. Wheat<br>Planting Date: 15-May<br>Harvest Date: 16-Nov<br><br>Production Inputs<br><table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Rate</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Fertilizer:</b></td> </tr> <tr> <td>Dry Nitrogen</td> <td>12.5 lb/a</td> <td>1-May</td> </tr> <tr> <td>Nitrogen</td> <td>17.5 lb/a</td> <td>17-May</td> </tr> <tr> <td>Nitrogen</td> <td>17.5 lb/a</td> <td>2-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>17.5 lb/a</td> <td>9-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>25.0 lb/a</td> <td>19-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>25.0 lb/a</td> <td>22-Jun</td> </tr> <tr> <td>Nitrogen</td> <td>25.0 lb/a</td> <td>6-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>25.0 lb/a</td> <td>13-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>12.5 lb/a</td> <td>19-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>12.5 lb/a</td> <td>20-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>12.5 lb/a</td> <td>27-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>12.5 lb/a</td> <td>28-Jul</td> </tr> <tr> <td>Nitrogen</td> <td>25.0 lb/a</td> <td>4-Aug</td> </tr> <tr> <td><b>Total Nitrogen</b></td> <td><b>240.0 lb/a</b></td> <td></td> </tr> <tr> <td>Dry P<sub>2</sub>O<sub>5</sub></td> <td>59 lb/a</td> <td>1-May</td> </tr> <tr> <td>Dry K<sub>2</sub>O</td> <td>68 lb/a</td> <td>1-May</td> </tr> <tr> <td>ZnSO<sub>4</sub></td> <td>0 lb/a</td> <td>1-May</td> </tr> <tr> <td colspan="3"><b>Herbicides:</b></td> </tr> <tr> <td>DiFlexx</td> <td>16 oz/a</td> <td>18-Jun</td> </tr> <tr> <td>Aatrex 4L</td> <td>1 qt/a</td> <td>18-Jun</td> </tr> <tr> <td>Super Spread MSO</td> <td>12.8 oz/a</td> <td>18-Jun</td> </tr> </tbody> </table> |                            | Rate              | Date | <b>Fertilizer:</b> |  |  | Dry Nitrogen | 12.5 lb/a | 1-May | Nitrogen | 17.5 lb/a | 17-May | Nitrogen | 17.5 lb/a | 2-Jun | Nitrogen | 17.5 lb/a | 9-Jun | Nitrogen | 25.0 lb/a | 19-Jun | Nitrogen | 25.0 lb/a | 22-Jun | Nitrogen | 25.0 lb/a | 6-Jul | Nitrogen | 25.0 lb/a | 13-Jul | Nitrogen | 12.5 lb/a | 19-Jul | Nitrogen | 12.5 lb/a | 20-Jul | Nitrogen | 12.5 lb/a | 27-Jul | Nitrogen | 12.5 lb/a | 28-Jul | Nitrogen | 25.0 lb/a | 4-Aug | <b>Total Nitrogen</b> | <b>240.0 lb/a</b> |  | Dry P <sub>2</sub> O <sub>5</sub> | 59 lb/a | 1-May | Dry K <sub>2</sub> O | 68 lb/a | 1-May | ZnSO <sub>4</sub> | 0 lb/a | 1-May | <b>Herbicides:</b> |  |  | DiFlexx | 16 oz/a | 18-Jun | Aatrex 4L | 1 qt/a | 18-Jun | Super Spread MSO | 12.8 oz/a | 18-Jun | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Average<br/>Temp.<br/>°F</th> <th style="text-align: center;">Precip.<br/>in.</th> <th style="text-align: center;">Irrigation<br/>in.</th> </tr> </thead> <tbody> <tr><td>January</td><td></td><td></td><td></td></tr> <tr><td>February</td><td></td><td></td><td></td></tr> <tr><td>March</td><td></td><td></td><td></td></tr> <tr><td>April</td><td></td><td></td><td></td></tr> <tr><td>May</td><td style="text-align: center;">58.3</td><td style="text-align: center;">0.31</td><td style="text-align: center;">2.4</td></tr> <tr><td>June</td><td style="text-align: center;">73.4</td><td style="text-align: center;">0.02</td><td style="text-align: center;">6.2</td></tr> <tr><td>July</td><td style="text-align: center;">77.4</td><td style="text-align: center;">2.51</td><td style="text-align: center;">6.5</td></tr> <tr><td>August</td><td style="text-align: center;">73.4</td><td style="text-align: center;">0.11</td><td style="text-align: center;">4.8</td></tr> <tr><td>September</td><td style="text-align: center;">66.7</td><td style="text-align: center;">1.57</td><td style="text-align: center;">1.8</td></tr> <tr><td>October</td><td style="text-align: center;">54.6</td><td style="text-align: center;">0.08</td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> <tr> <td>Seasonal Precipitation</td> <td></td> <td style="text-align: center;">4.6 in.</td> <td></td> </tr> <tr> <td>Total Irrigation</td> <td></td> <td style="text-align: center;">21.7 in.</td> <td></td> </tr> <tr> <td>Date of Last Spring Frost:</td> <td colspan="3" style="text-align: right;">19-May</td> </tr> <tr> <td>Date of First Fall Frost:</td> <td colspan="3" style="text-align: right;">25-Sep</td> </tr> <tr> <td>Frost Free Period:</td> <td colspan="3" style="text-align: right;">129 days</td> </tr> </tbody> </table> |  | Average<br>Temp.<br>°F | Precip.<br>in. | Irrigation<br>in. | January |  |  |  | February |  |  |  | March |  |  |  | April |  |  |  | May | 58.3 | 0.31 | 2.4 | June | 73.4 | 0.02 | 6.2 | July | 77.4 | 2.51 | 6.5 | August | 73.4 | 0.11 | 4.8 | September | 66.7 | 1.57 | 1.8 | October | 54.6 | 0.08 |  | November |  |  |  | December |  |  |  | Seasonal Precipitation |  | 4.6 in. |  | Total Irrigation |  | 21.7 in. |  | Date of Last Spring Frost: | 19-May |  |  | Date of First Fall Frost: | 25-Sep |  |  | Frost Free Period: | 129 days |  |  |
|  | Rate   | Date                       |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| <b>Fertilizer:</b>   |  |                            |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Dry Nitrogen   | 12.5 lb/a  | 1-May                      |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Nitrogen   | 17.5 lb/a  | 17-May                     |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Nitrogen   | 17.5 lb/a  | 2-Jun                      |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Nitrogen   | 17.5 lb/a  | 9-Jun                      |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Nitrogen   | 25.0 lb/a  | 19-Jun                     |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Nitrogen   | 25.0 lb/a  | 22-Jun                     |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Nitrogen   | 25.0 lb/a  | 6-Jul                      |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Nitrogen   | 25.0 lb/a  | 13-Jul                     |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Nitrogen   | 12.5 lb/a  | 19-Jul                     |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Nitrogen   | 12.5 lb/a  | 20-Jul                     |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Nitrogen   | 12.5 lb/a  | 27-Jul                     |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Nitrogen   | 12.5 lb/a  | 28-Jul                     |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Nitrogen   | 25.0 lb/a  | 4-Aug                      |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| <b>Total Nitrogen</b>  | <b>240.0 lb/a</b>  |                            |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Dry P <sub>2</sub> O <sub>5</sub>  | 59 lb/a  | 1-May                      |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Dry K <sub>2</sub> O   | 68 lb/a  | 1-May                      |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| ZnSO <sub>4</sub>  | 0 lb/a   | 1-May                      |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| <b>Herbicides:</b>   |  |                            |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| DiFlexx  | 16 oz/a  | 18-Jun                     |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Aatrex 4L  | 1 qt/a   | 18-Jun                     |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Super Spread MSO   | 12.8 oz/a  | 18-Jun                     |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
|  | Average<br>Temp.<br>°F   | Precip.<br>in.             | Irrigation<br>in. |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| January  |  |                            |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| February   |  |                            |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| March  |  |                            |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| April  |  |                            |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| May  | 58.3   | 0.31                       | 2.4               |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| June   | 73.4   | 0.02                       | 6.2               |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| July   | 77.4   | 2.51                       | 6.5               |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| August   | 73.4   | 0.11                       | 4.8               |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| September  | 66.7   | 1.57                       | 1.8               |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| October  | 54.6   | 0.08                       |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| November   |  |                            |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| December   |  |                            |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Seasonal Precipitation   |  | 4.6 in.                    |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Total Irrigation   |  | 21.7 in.                   |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Date of Last Spring Frost:   | 19-May   |                            |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Date of First Fall Frost:  | 25-Sep   |                            |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| Frost Free Period:   | 129 days   |                            |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |
| <b>Test Design:</b><br>Replications: 4<br>Plot Length: 20 ft.<br>Rows per Plot: 4<br>Row Spacing: 30 in.<br><br>Seeding Rate: 36,590 seeds/a<br>Harvest area: 2 row 20 feet long |  |                            |                   |      |                    |  |  |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |          |           |        |          |           |        |          |           |        |          |           |       |                       |                   |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |  |  |                        |                |                   |         |  |  |  |          |  |  |  |       |  |  |  |       |  |  |  |     |      |      |     |      |      |      |     |      |      |      |     |        |      |      |     |           |      |      |     |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |         |  |                  |  |          |  |                            |        |  |  |                           |        |  |  |                    |          |  |  |

**Table 3B. New Mexico 2017 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><br>bu/a | <b>Moisture at Harvest</b><br>% | <b>Test Weight</b><br>lb/bu | <b>Plant Height</b><br>in | <b>Ear Height</b><br>in | <b>Silk Date</b> | <b>Plant Population</b><br>#/ac |
|--------------------------------|----------------------------|----------------------------|---------------------------------|-----------------------------|---------------------------|-------------------------|------------------|---------------------------------|
| Dyna-Gro Seed                  | D39DC43 RIB                | 235.8                      | 11.0                            | 59.1                        | 99                        | 38                      | 25-Jul           | 34,521                          |
| Syngenta Seeds                 | G03C84-3120                | 231.6                      | 10.6                            | 58.2                        | 102                       | 45                      | 28-Jul           | 33,650                          |
| DuPont Pioneer                 | P0157AM                    | 231.0                      | 11.5                            | 60.2                        | 106                       | 42                      | 28-Jul           | 31,254                          |
| Syngenta Seeds                 | G05B91-3010                | 226.4                      | 11.0                            | 59.1                        | 106                       | 46                      | 27-Jul           | 31,037                          |
| Mycogen Seeds Dow AgroSciences | MY04Y97                    | 215.2                      | 10.9                            | 57.7                        | 100                       | 41                      | 28-Jul           | 31,363                          |
| DuPont Pioneer                 | P0365AM                    | 213.6                      | 11.2                            | 59.3                        | 108                       | 42                      | 28-Jul           | 29,948                          |
| Dyna-Gro Seed                  | D41SS71 RIB                | 213.2                      | 10.9                            | 59.2                        | 104                       | 47                      | 28-Jul           | 33,759                          |
| Mycogen Seeds Dow AgroSciences | MY00J47                    | 212.4                      | 11.4                            | 59.3                        | 101                       | 42                      | 26-Jul           | 34,848                          |
| Syngenta Seeds                 | G97N86-3110                | 211.7                      | 10.5                            | 59.8                        | 103                       | 48                      | 24-Jul           | 33,106                          |
| DuPont Pioneer                 | P9608AM                    | 211.0                      | 10.8                            | 60.0                        | 103                       | 39                      | 26-Jul           | 33,432                          |
| Mycogen Seeds Dow AgroSciences | MY97R57                    | 210.5                      | 11.3                            | 59.1                        | 98                        | 38                      | 25-Jul           | 32,017                          |
| Syngenta Seeds                 | G01D24-3120                | 209.9                      | 11.1                            | 57.6                        | 104                       | 44                      | 26-Jul           | 33,541                          |
| Mycogen Seeds Dow AgroSciences | MY01D87                    | 206.5                      | 11.6                            | 60.4                        | 101                       | 43                      | 24-Jul           | 32,997                          |
| DuPont Pioneer                 | P9998AM                    | 204.1                      | 10.9                            | 59.3                        | 100                       | 39                      | 27-Jul           | 32,452                          |
| Dyna-Gro Seed                  | D44VC36 RIB                | 203.8                      | 10.9                            | 59.0                        | 104                       | 43                      | 28-Jul           | 33,759                          |
| AgVenture                      | EXP157997AM                | 199.6                      | 10.8                            | 58.9                        | 105                       | 45                      | 28-Jul           | 31,363                          |
| AgVenture                      | EXP163027YHB               | 198.7                      | 10.8                            | 59.7                        | 104                       | 42                      | 27-Jul           | 32,126                          |
| Syngenta Seeds                 | G96V99-3120                | 196.9                      | 11.0                            | 59.1                        | 108                       | 45                      | 26-Jul           | 33,323                          |
| DuPont Pioneer                 | P9697AM                    | 196.7                      | 10.8                            | 59.3                        | 104                       | 39                      | 25-Jul           | 30,601                          |
| Rob See Co                     | IC5203-3120                | 196.3                      | 10.8                            | 60.6                        | 108                       | 49                      | 27-Jul           | 32,126                          |
| AgVenture                      | EXP167047CYXR              | 194.5                      | 10.8                            | 59.6                        | 104                       | 42                      | 27-Jul           | 26,136                          |
| Rob See Co                     | IC4848-3000GT              | 193.5                      | 10.7                            | 57.6                        | 102                       | 40                      | 27-Jul           | 32,997                          |
| Syngenta Seeds                 | G95D32-3110                | 192.7                      | 11.0                            | 60.1                        | 106                       | 41                      | 25-Jul           | 34,195                          |
| Syngenta Seeds                 | G98L17-3000GT              | 192.1                      | 11.0                            | 57.6                        | 107                       | 46                      | 27-Jul           | 34,086                          |
| DuPont Pioneer                 | P0589AM                    | 192.1                      | 10.9                            | 59.4                        | 100                       | 40                      | 27-Jul           | 32,452                          |
| Syngenta Seeds                 | G06Z97-3102                | 185.1                      | 10.8                            | 59.2                        | 101                       | 43                      | 26-Jul           | 32,561                          |
| Mycogen Seeds Dow AgroSciences | MY05C67                    | 183.9                      | 11.0                            | 58.9                        | 110                       | 49                      | 29-Jul           | 33,323                          |
| Rob See Co                     | IC5296-3120                | 181.0                      | 11.2                            | 57.9                        | 105                       | 42                      | 27-Jul           | 32,670                          |
| DuPont Pioneer                 | P0657AM                    | 180.0                      | 11.5                            | 60.1                        | 109                       | 43                      | 28-Jul           | 29,839                          |
| Dyna-Gro Seed                  | D45SS65 RIB                | 179.5                      | 10.8                            | 60.7                        | 104                       | 50                      | 25-Jul           | 34,086                          |
| Rob See Co                     | RC5112-3011A               | 176.8                      | 11.0                            | 59.0                        | 111                       | 44                      | 27-Jul           | 32,561                          |
| Mycogen Seeds Dow AgroSciences | MY02J57                    | 174.0                      | 11.2                            | 58.4                        | 109                       | 42                      | 25-Jul           | 32,126                          |
| Rob See Co                     | IC4570-3110                | 169.2                      | 10.9                            | 60.9                        | 104                       | 39                      | 24-Jul           | 32,561                          |
|                                | <b>Trial Mean</b>          | <b>200.6</b>               | <b>11.0</b>                     | <b>59.2</b>                 | <b>104</b>                | <b>43</b>               | <b>26-Jul</b>    | <b>32,449</b>                   |
|                                | <b>LSD</b>                 | <b>NS</b>                  | <b>0.3</b>                      | <b>1.0</b>                  | <b>NS</b>                 | <b>7</b>                | <b>-</b>         | <b>2,270</b>                    |
|                                | <b>LSD P &gt;</b>          | <b>0.05</b>                | <b>0.05</b>                     | <b>0.05</b>                 | <b>0.05</b>               | <b>0.05</b>             | <b>-</b>         | <b>0.05</b>                     |
|                                | <b>CV</b>                  | <b>20.0</b>                | <b>2.2</b>                      | <b>1.2</b>                  | <b>5.5</b>                | <b>12.1</b>             | <b>-</b>         | <b>5.0</b>                      |
|                                | <b>F Test</b>              | <b>0.7220</b>              | <b>0.0001</b>                   | <b>0.0001</b>               | <b>0.1299</b>             | <b>0.0493</b>           | <b>-</b>         | <b>0.0001</b>                   |

**Table 4A. New Mexico 2017 Full Season Grain Corn Performance Test - Agricultural Science Center at Farmington**

**Investigators:** O'Neill, M.K., M.M. West, and D. Begay

**Test Description**

| <b>Location:</b>   | <b>Management Practices:</b>  | <b>Growing Conditions:</b>  |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
|--|---|---|------------|---------------|--------------------|------------|----------|--------------|-----------|-------|----------|-----------|--------|----------|-----------|-------|----------|-----------|-------|----------|-----------|--------|----------|-----------|--------|----------|-----------|-------|----------|-----------|--------|----------|-----------|--------|-----------|-----------|--------|----------|-----------|--------|----------|-----------|----------|----------|-----------|-------|----------------|------------|--|-----------------------------------|---------|-------|----------------------|---------|-------|-------------------|--------|-------|--------------------|--|--|---------|---------|--------|-----------|--------|--------|------------------|-----------|--------|---|------------------------|---------|--|------------------|----------|--|--|--|--|----------------------------|--------|--|---------------------------|--------|--|--------------------|----------|--|
| County/Area: San Juan<br>Longitude: -108.306<br>Latitude: 36.6812<br>Elevation: 5,640 ft.<br>Soil Name: Wall<br>Soil Texture: sandy loam<br>Soil Depth: > 75 in. | Previous Crop: 2016 fallow, 2015 W. Wheat<br>Planting Date: 15-May<br>Harvest Date: 16-Nov  | <table border="1"> <thead> <tr> <th></th> <th>Average Temp.</th> <th>Precip.</th> <th>Irrigation</th> </tr> <tr> <th></th> <th>°F</th> <th>in.</th> <th>in.</th> </tr> </thead> </table>  |            | Average Temp. | Precip.            | Irrigation |          | °F           | in.       | in.   |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
|  | Average Temp.   | Precip.   | Irrigation |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
|  | °F  | in.   | in.        |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| <b>Test Design:</b>  | <b>Production Inputs</b>  | <table border="1"> <tbody> <tr><td>January</td><td></td><td></td><td></td></tr> <tr><td>February</td><td></td><td></td><td></td></tr> <tr><td>March</td><td></td><td></td><td></td></tr> <tr><td>April</td><td></td><td></td><td></td></tr> <tr><td>May</td><td>58.3</td><td>0.31</td><td>2.4</td></tr> <tr><td>June</td><td>73.4</td><td>0.02</td><td>6.2</td></tr> <tr><td>July</td><td>77.4</td><td>2.51</td><td>6.5</td></tr> <tr><td>August</td><td>73.4</td><td>0.11</td><td>4.8</td></tr> <tr><td>September</td><td>66.7</td><td>1.57</td><td>1.8</td></tr> <tr><td>October</td><td>54.6</td><td>0.08</td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table> | January    |               |                    |            | February |              |           |       | March    |           |        |          | April     |       |          |           | May   | 58.3     | 0.31      | 2.4    | June     | 73.4      | 0.02   | 6.2      | July      | 77.4  | 2.51     | 6.5       | August | 73.4     | 0.11      | 4.8    | September | 66.7      | 1.57   | 1.8      | October   | 54.6   | 0.08     |           | November |          |           |       | December       |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| January  |   |   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| February   |   |   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| March  |   |   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| April  |   |   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| May  | 58.3  | 0.31  | 2.4        |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| June   | 73.4  | 0.02  | 6.2        |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| July   | 77.4  | 2.51  | 6.5        |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| August   | 73.4  | 0.11  | 4.8        |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| September  | 66.7  | 1.57  | 1.8        |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| October  | 54.6  | 0.08  |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| November   |   |   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| December   |   |   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Replications: 4<br>Plot Length: 20 ft.<br>Rows per Plot: 4<br>Row Spacing: 30 in.  | <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>Dry Nitrogen</td><td>12.5 lb/a</td><td>1-May</td></tr> <tr><td>Nitrogen</td><td>17.5 lb/a</td><td>17-May</td></tr> <tr><td>Nitrogen</td><td>17.5 lb/a</td><td>2-Jun</td></tr> <tr><td>Nitrogen</td><td>17.5 lb/a</td><td>9-Jun</td></tr> <tr><td>Nitrogen</td><td>25.0 lb/a</td><td>19-Jun</td></tr> <tr><td>Nitrogen</td><td>25.0 lb/a</td><td>22-Jun</td></tr> <tr><td>Nitrogen</td><td>25.0 lb/a</td><td>6-Jul</td></tr> <tr><td>Nitrogen</td><td>25.0 lb/a</td><td>13-Jul</td></tr> <tr><td>Nitrogen</td><td>12.5 lb/a</td><td>19-Jul</td></tr> <tr><td>Nitrogen</td><td>12.5 lb/a</td><td>20-Jul</td></tr> <tr><td>Nitrogen</td><td>12.5 lb/a</td><td>27-Jul</td></tr> <tr><td>Nitrogen</td><td>12.5 lb/a</td><td>28-Jul</td></tr> <tr><td>Nitrogen</td><td>25.0 lb/a</td><td>4-Aug</td></tr> <tr><td>Total Nitrogen</td><td>240.0 lb/a</td><td></td></tr> <tr><td>Dry P<sub>2</sub>O<sub>5</sub></td><td>59 lb/a</td><td>1-May</td></tr> <tr><td>Dry K<sub>2</sub>O</td><td>68 lb/a</td><td>1-May</td></tr> <tr><td>ZnSO<sub>4</sub></td><td>0 lb/a</td><td>1-May</td></tr> <tr><td colspan="3"><b>Herbicides:</b></td></tr> <tr><td>DiFlexx</td><td>16 oz/a</td><td>18-Jun</td></tr> <tr><td>Aatrex 4L</td><td>1 qt/a</td><td>18-Jun</td></tr> <tr><td>Super Spread MSO</td><td>12.8 oz/a</td><td>18-Jun</td></tr> </tbody> </table> |   | Rate       | Date          | <b>Fertilizer:</b> |            |          | Dry Nitrogen | 12.5 lb/a | 1-May | Nitrogen | 17.5 lb/a | 17-May | Nitrogen | 17.5 lb/a | 2-Jun | Nitrogen | 17.5 lb/a | 9-Jun | Nitrogen | 25.0 lb/a | 19-Jun | Nitrogen | 25.0 lb/a | 22-Jun | Nitrogen | 25.0 lb/a | 6-Jul | Nitrogen | 25.0 lb/a | 13-Jul | Nitrogen | 12.5 lb/a | 19-Jul | Nitrogen  | 12.5 lb/a | 20-Jul | Nitrogen | 12.5 lb/a | 27-Jul | Nitrogen | 12.5 lb/a | 28-Jul   | Nitrogen | 25.0 lb/a | 4-Aug | Total Nitrogen | 240.0 lb/a |  | Dry P <sub>2</sub> O <sub>5</sub> | 59 lb/a | 1-May | Dry K <sub>2</sub> O | 68 lb/a | 1-May | ZnSO <sub>4</sub> | 0 lb/a | 1-May | <b>Herbicides:</b> |  |  | DiFlexx | 16 oz/a | 18-Jun | Aatrex 4L | 1 qt/a | 18-Jun | Super Spread MSO | 12.8 oz/a | 18-Jun | <table border="1"> <tbody> <tr><td>Seasonal Precipitation</td><td>4.6 in.</td><td></td></tr> <tr><td>Total Irrigation</td><td>21.7 in.</td><td></td></tr> <tr><td colspan="3"> </td></tr> <tr><td>Date of Last Spring Frost:</td><td>19-May</td><td></td></tr> <tr><td>Date of First Fall Frost:</td><td>25-Sep</td><td></td></tr> <tr><td>Frost Free Period:</td><td>129 days</td><td></td></tr> </tbody> </table> | Seasonal Precipitation | 4.6 in. |  | Total Irrigation | 21.7 in. |  |  |  |  | Date of Last Spring Frost: | 19-May |  | Date of First Fall Frost: | 25-Sep |  | Frost Free Period: | 129 days |  |
|  | Rate  | Date  |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| <b>Fertilizer:</b>   |   |   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Dry Nitrogen   | 12.5 lb/a   | 1-May   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Nitrogen   | 17.5 lb/a   | 17-May  |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Nitrogen   | 17.5 lb/a   | 2-Jun   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Nitrogen   | 17.5 lb/a   | 9-Jun   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Nitrogen   | 25.0 lb/a   | 19-Jun  |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Nitrogen   | 25.0 lb/a   | 22-Jun  |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Nitrogen   | 25.0 lb/a   | 6-Jul   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Nitrogen   | 25.0 lb/a   | 13-Jul  |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Nitrogen   | 12.5 lb/a   | 19-Jul  |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Nitrogen   | 12.5 lb/a   | 20-Jul  |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Nitrogen   | 12.5 lb/a   | 27-Jul  |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Nitrogen   | 12.5 lb/a   | 28-Jul  |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Nitrogen   | 25.0 lb/a   | 4-Aug   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Total Nitrogen   | 240.0 lb/a  |   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Dry P <sub>2</sub> O <sub>5</sub>  | 59 lb/a   | 1-May   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Dry K <sub>2</sub> O   | 68 lb/a   | 1-May   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| ZnSO <sub>4</sub>  | 0 lb/a  | 1-May   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| <b>Herbicides:</b>   |   |   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| DiFlexx  | 16 oz/a   | 18-Jun  |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Aatrex 4L  | 1 qt/a  | 18-Jun  |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Super Spread MSO   | 12.8 oz/a   | 18-Jun  |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Seasonal Precipitation   | 4.6 in.   |   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Total Irrigation   | 21.7 in.  |   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
|  |   |   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Date of Last Spring Frost:   | 19-May  |   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Date of First Fall Frost:  | 25-Sep  |   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |
| Frost Free Period:   | 129 days  |   |            |               |                    |            |          |              |           |       |          |           |        |          |           |       |          |           |       |          |           |        |          |           |        |          |           |       |          |           |        |          |           |        |           |           |        |          |           |        |          |           |          |          |           |       |                |            |  |                                   |         |       |                      |         |       |                   |        |       |                    |  |  |         |         |        |           |        |        |                  |           |        |   |                        |         |  |                  |          |  |  |  |  |                            |        |  |                           |        |  |                    |          |  |

**Table 4B. New Mexico 2017 Full Season Grain Corn Performance Test - Agricultural Science Center at Farmington**

**Results**

| Brand/Company Name | Hybrid/Variety Name | Grain Yield<br>bu/a | Moisture        | Test Weight<br>lb/bu | Plant Height<br>in | Ear Height<br>in | Silk Date | Plant Population<br>#/ac |
|--------------------|---------------------|---------------------|-----------------|----------------------|--------------------|------------------|-----------|--------------------------|
|                    |                     |                     | at Harvest<br>% |                      |                    |                  |           |                          |
| Dyna-Gro Seed      | D52SS91 RIB         | 237.5               | 13.0            | 58.3                 | 103                | 42               | 30-Jul    | 33,759                   |
| Dyna-Gro Seed      | D54DC94 RIB         | 237.2               | 12.0            | 57.0                 | 110                | 49               | 29-Jul    | 31,581                   |
| DuPont Pioneer     | P1306 WHR           | 230.0               | 11.4            | 60.9                 | 115                | 44               | 30-Jul    | 34,739                   |
| Dyna-Gro Seed      | D57VP51 RIB         | 228.1               | 14.4            | 57.2                 | 106                | 45               | 31-Jul    | 34,848                   |
| Warner Seeds, Inc. | W4409 VT2PRIB       | 218.8               | 11.9            | 57.9                 | 113                | 45               | 28-Jul    | 31,254                   |
| DuPont Pioneer     | P0805AM             | 206.2               | 11.8            | 60.8                 | 108                | 42               | 29-Jul    | 32,017                   |
| Dyna-Gro Seed      | D55VP77 RIB         | 204.6               | 13.4            | 56.7                 | 103                | 43               | 31-Jul    | 33,868                   |
| Warner Seeds, Inc. | W4622 VT2PRIB       | 201.4               | 13.2            | 56.9                 | 106                | 44               | 31-Jul    | 32,888                   |
| Dyna-Gro Seed      | D58VC37 RIB         | 198.1               | 13.7            | 57.9                 | 107                | 43               | 30-Jul    | 32,997                   |
| DuPont Pioneer     | P0801AM             | 196.3               | 11.1            | 58.8                 | 115                | 45               | 31-Jul    | 34,086                   |
| Dyna-Gro Seed      | D49VC39 RIB         | 194.2               | 11.8            | 57.4                 | 105                | 43               | 30-Jul    | 28,423                   |
| Dyna-Gro Seed      | D58QC72 RIB         | 168.1               | 16.6            | 56.9                 | 117                | 45               | 31-Jul    | 33,868                   |
|                    | Trial Mean          | 210.0               | 12.8            | 58.0                 | 109                | 44               | 30-Jul    | 32,861                   |
|                    | LSD                 | 39.6                | 0.7             | 1.0                  | 7                  | NS               | -         | 2,073                    |
|                    | LSD P >             | 0.05                | 0.05            | 0.05                 | 0.05               | 0.05             | -         | 0.05                     |
|                    | CV                  | 13.1                | 3.9             | 1.2                  | 4.8                | 8.7              | -         | 4.4                      |
|                    | F Test              | 0.0328              | 0.0001          | 0.0001               | 0.0035             | 0.4703           | -         | 0.0001                   |

**Table 5A. New Mexico 2017 Grain Corn Performance Test - Agricultural Science Center at Tucumcari**

**Investigators:** L.M. Lauriault, A. Cunningham, J. Box, P.L. Cooksey, S. Jennings, J. Jennings, A. Williams, and A. McGeachy

**Test Description**

| <b>Location:</b>   | <b>Management Practices:</b>  | <b>Growing Conditions:</b> |                   |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
|--|---|----------------------------|-------------------|------|-------------|--|--|----------|------|-----------|----------|------|--|------|------|--|--|--|--|----------|------|--|--|--|--|---|--|--|-----------|--------|--------|---------|---------|-------|---------------|-----------|--------|--|--|------------------------|----------------|-------------------|---------|----|------|------|----------|----|------|------|-------|----|------|------|-------|----|------|------|-----|----|------|------|------|----|------|------|------|----|------|------|--------|----|------|------|-----------|----|------|------|---------|----|------|------|----------|--|--|------|----------|--|--|------|
| County/Area: Quay<br>Longitude: -103.68<br>Latitude: 35.20<br>Elevation: 4086 ft.<br>Soil Name: Redona<br>Soil Texture: Fine sandy loam<br>Soil Depth: >60 in. | Previous Crop: Small grain forage<br>Planting Date: 5/31/17<br>Harvest Dates: 10/24/17<br><br><hr/> Production Inputs<br><hr/> <table border="1"> <thead> <tr> <th></th> <th>Rate</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td colspan="3">Fertilizer:</td> </tr> <tr> <td>Nitrogen</td> <td>lb/a</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>lb/a</td> <td></td> </tr> <tr> <td>P2O5</td> <td>lb/a</td> <td></td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td>Nitrogen</td> <td>lb/a</td> <td></td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td colspan="3">Pesticides (herbicides and insecticides):</td> </tr> <tr> <td>Gramoxone</td> <td>3 pt/a</td> <td>12-May</td> </tr> <tr> <td>Roundup</td> <td>77 oz/a</td> <td>1-Jun</td> </tr> <tr> <td>Starane Ultra</td> <td>7.29 oz/a</td> <td>24-Jun</td> </tr> </tbody> </table> |                            | Rate              | Date | Fertilizer: |  |  | Nitrogen | lb/a | carryover | Nitrogen | lb/a |  | P2O5 | lb/a |  |  |  |  | Nitrogen | lb/a |  |  |  |  | Pesticides (herbicides and insecticides): |  |  | Gramoxone | 3 pt/a | 12-May | Roundup | 77 oz/a | 1-Jun | Starane Ultra | 7.29 oz/a | 24-Jun | <table border="1"> <thead> <tr> <th></th> <th>Average<br/>Temp.<br/>°F</th> <th>Precip.<br/>in.</th> <th>Irrigation<br/>in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>38</td><td>1.02</td><td>0.00</td></tr> <tr><td>February</td><td>48</td><td>0.17</td><td>0.00</td></tr> <tr><td>March</td><td>56</td><td>2.16</td><td>1.00</td></tr> <tr><td>April</td><td>58</td><td>2.73</td><td>2.00</td></tr> <tr><td>May</td><td>64</td><td>1.82</td><td>0.00</td></tr> <tr><td>June</td><td>77</td><td>0.98</td><td>7.25</td></tr> <tr><td>July</td><td>82</td><td>1.58</td><td>5.00</td></tr> <tr><td>August</td><td>75</td><td>6.48</td><td>0.50</td></tr> <tr><td>September</td><td>70</td><td>2.65</td><td>1.00</td></tr> <tr><td>October</td><td>60</td><td>3.62</td><td>0.00</td></tr> <tr><td>November</td><td></td><td></td><td>0.00</td></tr> <tr><td>December</td><td></td><td></td><td>0.00</td></tr> </tbody> </table><br>Seasonal Precipitation 17.1 in.<br>Total Seasonal Irrigation 13.8 in.<br><br>Date of Last Spring Frost: 30-Apr<br>Date of First Fall Frost: 10-Oct<br>Frost Free Period: 163 days |  | Average<br>Temp.<br>°F | Precip.<br>in. | Irrigation<br>in. | January | 38 | 1.02 | 0.00 | February | 48 | 0.17 | 0.00 | March | 56 | 2.16 | 1.00 | April | 58 | 2.73 | 2.00 | May | 64 | 1.82 | 0.00 | June | 77 | 0.98 | 7.25 | July | 82 | 1.58 | 5.00 | August | 75 | 6.48 | 0.50 | September | 70 | 2.65 | 1.00 | October | 60 | 3.62 | 0.00 | November |  |  | 0.00 | December |  |  | 0.00 |
|  | Rate  | Date                       |                   |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| Fertilizer:  |   |                            |                   |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| Nitrogen   | lb/a  | carryover                  |                   |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| Nitrogen   | lb/a  |                            |                   |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| P2O5   | lb/a  |                            |                   |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
|  |   |                            |                   |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| Nitrogen   | lb/a  |                            |                   |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
|  |   |                            |                   |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| Pesticides (herbicides and insecticides):  |   |                            |                   |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| Gramoxone  | 3 pt/a  | 12-May                     |                   |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| Roundup  | 77 oz/a   | 1-Jun                      |                   |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| Starane Ultra  | 7.29 oz/a   | 24-Jun                     |                   |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
|  | Average<br>Temp.<br>°F  | Precip.<br>in.             | Irrigation<br>in. |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| January  | 38  | 1.02                       | 0.00              |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| February   | 48  | 0.17                       | 0.00              |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| March  | 56  | 2.16                       | 1.00              |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| April  | 58  | 2.73                       | 2.00              |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| May  | 64  | 1.82                       | 0.00              |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| June   | 77  | 0.98                       | 7.25              |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| July   | 82  | 1.58                       | 5.00              |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| August   | 75  | 6.48                       | 0.50              |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| September  | 70  | 2.65                       | 1.00              |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| October  | 60  | 3.62                       | 0.00              |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| November   |   |                            | 0.00              |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| December   |   |                            | 0.00              |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| <b>Test Design:</b><br>Replications: 4<br>Plot Length: 20 ft.<br>Rows per Plot: 2<br>Row Spacing: 30 in.<br><br>Seeding Rate: 29,000 seeds/ac                  |   |                            |                   |      |             |  |  |          |      |           |          |      |  |      |      |  |  |  |  |          |      |  |  |  |  |   |  |  |           |        |        |         |         |       |               |           |        |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |

**Table 5B. New Mexico 2017 Grain Corn Performance Test - Agricultural Science Center at Tucumcari**

**Results**

| <b>Brand/Company Name</b>      | <b>Hybrid/Variety Name</b> | <b>CRM</b> | <b>Plant Population</b><br>Plants/ac | <b>Grain Yield</b><br>lb/ac | <b>Grain Yield</b><br>bu/ac | <b>Moisture at Evaluation</b><br>% | <b>Test wt.</b><br>lb/bu |        |
|--------------------------------|----------------------------|------------|--------------------------------------|-----------------------------|-----------------------------|------------------------------------|--------------------------|--------|
| Dyna-GroSeed                   | D58VC37RIB                 | 118        | 26281                                | 8351                        | 149                         | 11.6                               | 58.0                     |        |
| Dyna-GroSeed                   | D55VP77RIB                 | 115        | 26681                                | 7748                        | 138                         | 12.1                               | 57.6                     |        |
| Syngenta Seeds                 | G11B63                     | 111        | 25591                                | 7428                        | 133                         | 12.6                               | 55.6                     |        |
| Syngenta Seeds                 | G06Z97-3102                | 106        | 26245                                | 7135                        | 127                         | 11.3                               | 56.9                     |        |
| Dyna-GroSeed                   | D57VP51RIB                 | 117        | 27334                                | 7120                        | 127                         | 12.4                               | 56.9                     |        |
| Dyna-GroSeed                   | D52SS91                    | 112        | 27552                                | 6520                        | 116                         | 12.4                               | 58.1                     |        |
| Mycogen Seeds/Dow AgroSciences | MY04Y97                    | 104        | 25265                                | 6496                        | 116                         | 10.6                               | 53.9                     |        |
| Rob See Co                     | IC5296-3120                | 102        | 24684                                | 6394                        | 114                         | 10.9                               | 53.0                     |        |
| Dyna-GroSeed                   | D49VC39RIB                 | 109        | 20909                                | 6370                        | 114                         | 10.8                               | 56.3                     |        |
| DuPont Pioneer                 | P9697AM                    | 96         | 26681                                | 6169                        | 110                         | 10.4                               | 57.0                     |        |
| Syngenta Seeds                 | G95D32-3110                | 95         | 24720                                | 6031                        | 108                         | 10.1                               | 57.3                     |        |
| DuPont Pioneer                 | P0365AM                    | 103        | 26027                                | 5625                        | 100                         | 11.7                               | 56.5                     |        |
| Syngenta Seeds                 | N76A-3000GT                | 114        | 24067                                | 5503                        | 98                          | 11.4                               | 51.6                     |        |
| DuPont Pioneer                 | P0589AM                    | 105        | 25156                                | 5442                        | 97                          | 10.9                               | 56.4                     |        |
| DuPont Pioneer                 | P0801AM                    | 108        | 25156                                | 5175                        | 92                          | 10.4                               | 53.4                     |        |
| Rob See Co                     | IC4848-3000GT              | 98         | 24103                                | 5107                        | 91                          | 10.9                               | 54.7                     |        |
| Mycogen Seeds/Dow AgroSciences | MY00J47                    | 100        | 26354                                | 5074                        | 91                          | 10.8                               | 54.8                     |        |
| Rob See Co                     | RC5112-3011A               | 101        | 24067                                | 4397                        | 79                          | 10.7                               | 55.8                     |        |
|                                |                            |            | Trial Mean                           | 25463                       | 6208                        | 111                                | 11.2                     | 88.5   |
|                                |                            |            | LSD P < 0.05                         | NS                          | 2051                        | 37                                 | 1.2                      | 1.8    |
|                                |                            |            | CV                                   | 8.6                         | 23.2                        | 23.2                               | 7.7                      | 2.3    |
|                                |                            |            | F Test                               | 0.1063                      | 0.0244                      | 0.0244                             | 0.0009                   | 0.0001 |

CRM = comparative relative maturity.

Moisture at Evaluation was measured after the corn was shelled, when it was weighed and evaluated for test weight, approximately 80 d after ears had been harvested.



**Table 6A. New Mexico 2017 Irrigated Forage Corn Performance Test - Agricultural Science Center at Artesia**

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

**Test Description**

| <b>Location:</b>  | <b>Management Practices:</b>  | <b>Growing Conditions:</b> |                   |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
|---|---|----------------------------|-------------------|------|--------------------|--|--|----------|----------|--------|-------------------------------|---------|--------|------------------|--------|--|----|--------|--------|--|--|------------------------|----------------|-------------------|---------|------|------|--|----------|------|------|--|-------|------|------|--|-------|------|------|--|-----|------|------|------|------|------|------|------|------|------|------|-------|--------|------|------|------|-----------|------|------|------|---------|------|------|--|----------|--|--|--|----------|--|--|--|
| County/Area: Eddy<br>Longitude: -104.38<br>Latitude: 32.75<br>Elevation: 3360 ft.<br>Soil Name: Pima<br>Soil Texture: silt loam/scl<br>Soil Depth: 60 in. | Previous Crop: cotton<br>Planting Date: 25-May<br>Harvest Date: 9-Sep<br><br><hr/> <b>Production Inputs</b><br><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"><b>Fertilizer:</b></td> </tr> <tr> <td style="padding-left: 40px;">Nitrogen</td> <td style="text-align: center;">200 lb/a</td> <td style="text-align: center;">16-Jun</td> </tr> <tr> <td style="padding-left: 40px;">P<sub>2</sub>O<sub>5</sub></td> <td style="text-align: center;">80 lb/a</td> <td style="text-align: center;">16-Jun</td> </tr> <tr> <td style="padding-left: 40px;">K<sub>2</sub>O</td> <td style="text-align: center;">0 lb/a</td> <td></td> </tr> <tr> <td style="padding-left: 40px;">Zn</td> <td style="text-align: center;">2 lb/a</td> <td style="text-align: center;">16-Jun</td> </tr> </tbody> </table> Cultivation:<br><br>17-Jun<br><br>Herbicides:<br><br>Prowl H2O      2 pts/a<br><br>Insecticides:<br><br>None |                            | Rate              | Date | <b>Fertilizer:</b> |  |  | Nitrogen | 200 lb/a | 16-Jun | P <sub>2</sub> O <sub>5</sub> | 80 lb/a | 16-Jun | K <sub>2</sub> O | 0 lb/a |  | Zn | 2 lb/a | 16-Jun | <hr/> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Average<br/>Temp.<br/>°F</th> <th style="text-align: center;">Precip.<br/>in.</th> <th style="text-align: center;">Irrigation<br/>in.</th> </tr> </thead> <tbody> <tr><td>January</td><td style="text-align: center;">43.9</td><td style="text-align: center;">0.89</td><td></td></tr> <tr><td>February</td><td style="text-align: center;">50.4</td><td style="text-align: center;">0.41</td><td></td></tr> <tr><td>March</td><td style="text-align: center;">57.7</td><td style="text-align: center;">0.02</td><td></td></tr> <tr><td>April</td><td style="text-align: center;">62.8</td><td style="text-align: center;">1.09</td><td></td></tr> <tr><td>May</td><td style="text-align: center;">67.3</td><td style="text-align: center;">0.30</td><td style="text-align: center;">4.00</td></tr> <tr><td>June</td><td style="text-align: center;">79.6</td><td style="text-align: center;">1.83</td><td style="text-align: center;">3.00</td></tr> <tr><td>July</td><td style="text-align: center;">81.1</td><td style="text-align: center;">1.49</td><td style="text-align: center;">10.00</td></tr> <tr><td>August</td><td style="text-align: center;">77.9</td><td style="text-align: center;">3.15</td><td style="text-align: center;">8.00</td></tr> <tr><td>September</td><td style="text-align: center;">73.4</td><td style="text-align: center;">1.92</td><td style="text-align: center;">2.00</td></tr> <tr><td>October</td><td style="text-align: center;">61.6</td><td style="text-align: center;">0.43</td><td></td></tr> <tr><td>November</td><td></td><td></td><td></td></tr> <tr><td>December</td><td></td><td></td><td></td></tr> </tbody> </table> <hr/> Seasonal Precipitation <span style="color: green;">▲</span> 7.88 in.<br>Total Irrigation      27.00 in.<br><br>Date of Last Spring Frost:      30-Apr<br>Date of First Fall Frost:      28-Oct<br>Frost Free Period:      181 days |  | Average<br>Temp.<br>°F | Precip.<br>in. | Irrigation<br>in. | January | 43.9 | 0.89 |  | February | 50.4 | 0.41 |  | March | 57.7 | 0.02 |  | April | 62.8 | 1.09 |  | May | 67.3 | 0.30 | 4.00 | June | 79.6 | 1.83 | 3.00 | July | 81.1 | 1.49 | 10.00 | August | 77.9 | 3.15 | 8.00 | September | 73.4 | 1.92 | 2.00 | October | 61.6 | 0.43 |  | November |  |  |  | December |  |  |  |
|   | Rate  | Date                       |                   |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| <b>Fertilizer:</b>  |   |                            |                   |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| Nitrogen  | 200 lb/a  | 16-Jun                     |                   |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| P <sub>2</sub> O <sub>5</sub>   | 80 lb/a   | 16-Jun                     |                   |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| K <sub>2</sub> O  | 0 lb/a  |                            |                   |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| Zn  | 2 lb/a  | 16-Jun                     |                   |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
|   | Average<br>Temp.<br>°F  | Precip.<br>in.             | Irrigation<br>in. |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| January   | 43.9  | 0.89                       |                   |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| February  | 50.4  | 0.41                       |                   |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| March   | 57.7  | 0.02                       |                   |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| April   | 62.8  | 1.09                       |                   |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| May   | 67.3  | 0.30                       | 4.00              |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| June  | 79.6  | 1.83                       | 3.00              |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| July  | 81.1  | 1.49                       | 10.00             |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| August  | 77.9  | 3.15                       | 8.00              |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| September   | 73.4  | 1.92                       | 2.00              |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| October   | 61.6  | 0.43                       |                   |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| November  |   |                            |                   |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| December  |   |                            |                   |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |
| <b>Test Design:</b><br>Replications: 3<br>Plot Length: 20 ft.<br>Rows per Plot: 2<br>Row Spacing: 40 in.<br><br>Seeding Rate: 32,000 seed/a               |   |                            |                   |      |                    |  |  |          |          |        |                               |         |        |                  |        |  |    |        |        |  |  |                        |                |                   |         |      |      |  |          |      |      |  |       |      |      |  |       |      |      |  |     |      |      |      |      |      |      |      |      |      |      |       |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |

**Table 6B. New Mexico 2017 Irrigated Forage Corn Performance Test - Agricultural Science Center at Artesia**

**Results**

| Brand/Company Name    | Hybrid/Variety Name | Dry Forage<br>t/a | 65% Adj             | Moisture        | CP<br>% | NDF<br>% | NDFD<br>30hr<br>% | Ash<br>% | TDN<br>% | NE <sub>l</sub><br>Mcal/lb | Milk/<br>Ton<br>lb/t | Milk/<br>Acre<br>lb/a |
|-----------------------|---------------------|-------------------|---------------------|-----------------|---------|----------|-------------------|----------|----------|----------------------------|----------------------|-----------------------|
|                       |                     |                   | Green Forage<br>t/a | at Harvest<br>% |         |          |                   |          |          |                            |                      |                       |
| Golden Acres Genetics | G7848 VT2PRO        | 8.1               | 23.1                | 58.5            | 7.7     | 60.5     | 69.6              | 6.6      | 61.0     | 0.535                      | 2282                 | 19487                 |
| Dyna-Gro Seed         | D58SS65 RIB         | 8.0               | 22.9                | 60.0            | 7.8     | 61.1     | 72.0              | 5.9      | 64.1     | 0.565                      | 2493                 | 21360                 |
| Dyna-Gro Seed         | D54VC52 RIB         | 7.8               | 22.3                | 60.2            | 8.3     | 61.9     | 72.0              | 5.6      | 64.4     | 0.569                      | 2513                 | 20703                 |
| Dyna-Gro Seed         | D53VC47 RIB         | 7.6               | 21.7                | 58.0            | 7.3     | 58.8     | 69.2              | 6.3      | 60.3     | 0.529                      | 2245                 | 19801                 |
| Dyna-Gro Seed         | D55VP77 RIB         | 7.5               | 21.4                | 54.1            | 7.8     | 59.9     | 69.8              | 6.0      | 61.9     | 0.546                      | 2356                 | 18022                 |
| Dyna-Gro Seed         | D58QC72 RIB         | 7.5               | 21.4                | 61.8            | 7.4     | 62.1     | 68.6              | 5.8      | 61.3     | 0.541                      | 2318                 | 16683                 |
| Golden Acres Genetics | G7601               | 7.5               | 21.4                | 62.2            | 8.3     | 62.0     | 69.0              | 5.8      | 63.2     | 0.563                      | 2464                 | 19418                 |
| Golden Acres Genetics | G8738               | 7.2               | 20.6                | 62.9            | 8.5     | 61.2     | 66.9              | 5.8      | 61.1     | 0.545                      | 2335                 | 15977                 |
| Golden Acres Genetics | G6832 STX           | 6.9               | 19.7                | 62.9            | 7.8     | 60.5     | 67.7              | 5.8      | 60.8     | 0.539                      | 2300                 | 14994                 |
|                       | Trial Mean          | 6.1               | 17.4                | 60.1            | 7.9     | 60.4     | 68.5              | 7.8      | 65.3     | 0.583                      | 2367                 | 18494                 |
|                       | LSD                 | NS                | NS                  | NS              | NS      | NS       | NS                | NS       | NS       | NS                         | NS                   | NS                    |
|                       | LSD P >             | 0.05              | 0.05                | 0.05            | 0.05    | 0.05     | 0.05              | 0.05     | 0.05     | 0.05                       | 0.05                 | 0.05                  |
|                       | CV                  | 18.2              | 17.5                | 8.6             | 9.3     | 3.1      | 4.3               | 30.8     | 9.1      | 3.7                        | 3.8                  | 6.1                   |
|                       | F Test              | 0.9555            | 0.8567              | 0.3210          | 0.4657  | 0.4833   | 0.4708            | 0.9325   | 0.4942   | 0.3104                     | 0.2543               | 0.2740                |

**Table 7A. New Mexico 2017 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                                   |                            |                |                   |
| Longitude: -103.22         | Planting Date: 18-May                                   |                            |                |                   |
| Latitude: 34.60            | Harvest Date: 5-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            36 lb/a            carryover        |                            |                |                   |
|                            | Nitrogen            15 lb/a            18-Apr           |                            |                |                   |
|                            | P <sub>2</sub> O <sub>5</sub> 50 lb/a            18-Apr |                            |                |                   |
|                            | Zn                    3 qt/ac            18-Apr         |                            |                |                   |
|                            | Nitrogen            152 lb/ac           at plant        |                            |                |                   |
|                            | S                     27.5 lb/ac           at plant     |                            |                |                   |
|                            | Nitrogen            50 lb/ac           2-Aug            |                            |                |                   |
|                            | S                     9 lb/ac            2-Aug          |                            |                |                   |
|                            | <b>Herbicides:</b>                                      |                            |                |                   |
|                            | Atrazine            1 pt/a            at plant          |                            |                |                   |
|                            | Balance Flex       2 oz/ac           at plant           |                            |                |                   |
|                            | Diflex               8 oz/ac           at plant         |                            |                |                   |
|                            | Charger Basic     1 pt/ac           at plant            |                            |                |                   |
|                            | Glyphosate        40 oz/ac           at plant           |                            |                |                   |
|                            | Diflex               10 oz/ac           20-Jun          |                            |                |                   |
|                            | Brawl               1 pt/ac            20-Jun           |                            |                |                   |
|                            | <b>Insecticides:</b>                                    |                            |                |                   |
|                            | Onager             14 oz/ac           20-Jun            |                            |                |                   |
|                            | Belt SC             3 oz/ac            3-Aug            |                            |                |                   |
|                            | Oberon             8 oz/ac            3-Aug             |                            |                |                   |
| <b>Test Design:</b>        |   |                            |                |                   |
| Replications: 3            |   |                            |                |                   |
| Plot Length: 20 ft.        |   |                            |                |                   |
| Rows per Plot: 2           |   |                            |                |                   |
| Row Spacing: 30 in.        |   |                            |                |                   |
| Seeding Rate: 27000 seed/a |   |                            |                |                   |
|                            |   | <u>Average</u>             |                |                   |
|                            |   | <u>Temp.</u>               | <u>Precip.</u> | <u>Irrigation</u> |
|                            |   | °F                         | in.            | in.               |
|                            |   | January                    | 36.5           |                   |
|                            |   | February                   | 45.8           |                   |
|                            |   | March                      | 51.7           |                   |
|                            |   | April                      | 55.5           |                   |
|                            |   | May 1-18                   | 61.4           | 1.24    0.05      |
|                            |   | June                       | 74.1           | 1.02    1.80      |
|                            |   | July                       | 77.0           | 2.18    6.50      |
|                            |   | August                     | 71.0           | 7.87    0.21      |
|                            |   | September 1-5              | 67.0           | 0.00    0.00      |
|                            |   | October                    | 56.5           |                   |
|                            |   | November                   | 50.0           |                   |
|                            |   | December                   | 38.0           |                   |
|                            |   | Seasonal Precipitation:    | 12.3 in.       |                   |
|                            |   | Total Irrigation:          | 8.6 in.        |                   |
|                            |   | Date of Last Spring Frost: | 1-May          |                   |
|                            |   | Date of First Fall Frost:  | 10-Oct         |                   |
|                            |   | Frost Free Period:         | 162 days       |                   |

**Table 7B. New Mexico 2017 Forage Corn Performance Test - Agricultural Science Center at Clovis**

**Results**

| Brand/Company Name    | Hybrid/Variety Name | Moisture   |              |            | CP     | NDF    | NDFD   |        | Ash    | TDN     | NE <sub>i</sub> | Milk/Ton | Milk/Acre |
|-----------------------|---------------------|------------|--------------|------------|--------|--------|--------|--------|--------|---------|-----------------|----------|-----------|
|                       |                     | Dry Forage | Green Forage | at Harvest |        |        | 48hr   | Starch |        |         |                 |          |           |
|                       |                     | t/a        | t/a          | %          | %      | %      | %      | %      | %      | Mcal/lb | lb/t            | lb/a     |           |
| B-H Genetics          | X17015 SS           | 9.3        | 29.7         | 68.8       | 10.0   | 44.2   | 58.9   | 25.3   | 3.6    | 65.0    | 0.667           | 3084     | 28568     |
| Dyna-Gro Seed         | D53VC47 RIB         | 9.0        | 28.3         | 68.2       | 9.4    | 43.3   | 62.8   | 29.7   | 4.2    | 67.2    | 0.692           | 3281     | 29470     |
| Golden Acres Genetics | G7848 VT2 PRO       | 8.9        | 27.0         | 67.2       | 9.9    | 41.8   | 63.8   | 30.9   | 3.4    | 68.6    | 0.708           | 3384     | 29994     |
| B-H Genetics          | BH 8907 VT2P        | 8.8        | 29.8         | 70.4       | 9.5    | 46.5   | 61.0   | 25.6   | 3.7    | 66.0    | 0.679           | 3179     | 28054     |
| Blue River Hybrids    | 70A47               | 8.8        | 29.3         | 70.0       | 10.1   | 43.8   | 61.8   | 28.3   | 4.1    | 66.5    | 0.685           | 3221     | 28317     |
| Dyna-Gro Seed         | D54VC52 RIB         | 8.7        | 25.8         | 66.3       | 9.6    | 41.2   | 60.3   | 32.0   | 3.4    | 66.9    | 0.689           | 3235     | 28046     |
| B-H Genetics          | BH 8636 SS          | 8.6        | 27.1         | 68.1       | 10.3   | 45.0   | 62.0   | 25.9   | 3.9    | 67.0    | 0.690           | 3255     | 28140     |
| Dyna-Gro Seed         | D58QC72 RIB         | 8.6        | 29.7         | 71.2       | 9.9    | 46.4   | 61.3   | 24.8   | 3.8    | 66.4    | 0.683           | 3206     | 27524     |
| Master's Choice       | MCT 6754            | 8.6        | 27.4         | 68.6       | 9.6    | 43.6   | 61.3   | 29.0   | 3.6    | 66.6    | 0.686           | 3225     | 27604     |
| Sygenta Seeds         | G15Q98-3000 GT      | 8.6        | 27.7         | 69.2       | 9.3    | 43.7   | 61.7   | 29.6   | 3.9    | 66.6    | 0.685           | 3226     | 27627     |
| Sygenta Seeds         | G14H66-3010A        | 8.5        | 27.8         | 69.5       | 9.1    | 42.4   | 63.2   | 30.7   | 3.8    | 67.6    | 0.697           | 3312     | 28063     |
| Sygenta Seeds         | G14V04-3000 GT      | 8.4        | 26.1         | 67.8       | 9.1    | 43.5   | 61.0   | 30.7   | 3.4    | 66.4    | 0.683           | 3203     | 27046     |
| B-H Genetics          | BH 8590 VT2P        | 8.4        | 26.4         | 68.1       | 9.1    | 43.3   | 59.8   | 30.5   | 3.2    | 66.4    | 0.684           | 3199     | 26895     |
| Dyna-Gro Seed         | D55VP77 RIB         | 8.4        | 28.8         | 70.8       | 9.9    | 42.6   | 61.0   | 29.2   | 3.7    | 67.0    | 0.689           | 3246     | 27286     |
| Master's Choice       | MCT 6733            | 8.4        | 27.3         | 69.3       | 9.5    | 44.3   | 61.9   | 27.4   | 3.9    | 66.8    | 0.687           | 3241     | 27094     |
| B-H Genetics          | BH 8732 VTTP        | 8.4        | 27.1         | 69.2       | 9.4    | 43.9   | 62.7   | 28.9   | 3.2    | 67.6    | 0.696           | 3303     | 27600     |
| Golden Acres Genetics | G8738               | 8.4        | 27.8         | 69.8       | 10.1   | 43.6   | 61.1   | 27.6   | 3.6    | 66.8    | 0.687           | 3232     | 26986     |
| Blue River Hybrids    | 66G25               | 8.3        | 27.5         | 69.7       | 9.9    | 42.8   | 61.5   | 28.3   | 3.9    | 67.2    | 0.692           | 3268     | 27312     |
| Golden Acres Genetics | G6832 STX           | 8.3        | 28.2         | 70.5       | 9.4    | 45.5   | 60.1   | 27.3   | 3.6    | 65.9    | 0.677           | 3162     | 26413     |
| Golden Acres Genetics | G7601               | 8.2        | 26.7         | 69.1       | 9.7    | 42.0   | 62.7   | 29.5   | 3.7    | 67.7    | 0.697           | 3312     | 27278     |
| B-H Genetics          | BH 8988 W/GT        | 8.2        | 28.1         | 70.9       | 9.7    | 45.9   | 61.8   | 25.0   | 3.5    | 66.7    | 0.686           | 3233     | 26431     |
| Sygenta Seeds         | G18D87-3111         | 8.1        | 27.0         | 69.7       | 9.3    | 42.3   | 62.1   | 30.2   | 3.3    | 67.5    | 0.695           | 3291     | 26803     |
| B-H Genetics          | BH 8721 VT2P        | 8.1        | 27.1         | 70.2       | 9.8    | 43.3   | 62.6   | 28.5   | 3.8    | 67.4    | 0.694           | 3292     | 26567     |
| Sygenta Seeds         | G13N18-3111         | 7.8        | 27.9         | 72.1       | 9.4    | 44.5   | 62.2   | 28.8   | 3.8    | 66.7    | 0.687           | 3241     | 25316     |
| Dyna-Gro Seed         | D58SS65 RIB         | 7.8        | 27.5         | 71.6       | 9.4    | 45.9   | 60.7   | 27.4   | 3.4    | 66.4    | 0.684           | 3205     | 25022     |
| Master's Choice       | MCT 6583            | 7.7        | 26.7         | 71.0       | 9.2    | 44.4   | 61.2   | 27.9   | 4.2    | 66.0    | 0.679           | 3181     | 24575     |
| Blue River Hybrids    | 62G22               | 7.5        | 25.4         | 70.7       | 9.7    | 44.0   | 61.8   | 28.8   | 3.8    | 67.0    | 0.690           | 3258     | 24306     |
|                       | Trial Mean          | 8.4        | 27.6         | 69.5       | 9.6    | 43.8   | 61.6   | 28.4   | 3.7    | 66.8    | 0.688           | 3240     | 27197     |
|                       | LSD                 | 1.1        | 3.3          | 0.0        | 0.6    | 3.6    | 1.8    | 4.0    | 0.8    | 1.3     | 0.014           | 106      | 3770      |
|                       | LSD P >             | 0.05       | 0.05         | 0.05       | 0.05   | 0.05   | 0.05   | 0.05   | 0.05   | 0.05    | 0.050           | 0.05     | 0.05      |
|                       | CV                  | 7.9        | 7.3          | 2.4        | 3.8    | 5.0    | 1.8    | 8.6    | 12.6   | 1.2     | 1.3             | 2.0      | 8.5       |
|                       | F Test              | 0.3778     | 0.4981       | 0.0150     | 0.0018 | 0.2719 | 0.0005 | 0.0279 | 0.4220 | 0.0077  | 0.0064          | 0.0036   | 0.5004    |

**Table 8A. New Mexico 2017 Forage Corn Performance Test - Agricultural Science Center at Farmington**

**Investigators:** O'Neill, M.K., M.M. West, and D. Begay

**Test Description**

| <b>Location:</b>         | <b>Management Practices:</b>              | <b>Growing Conditions:</b> |          |            |     |
|--------------------------|---|----------------------------|----------|------------|-----|
| County/Area: San Juan    | Previous Crop: 2016 fallow, 2015 W. Wheat | Average                    |          |            |     |
| Longitude: -108.306      | Planting Date: 15-May                     | Temp.                      | Precip.  | Irrigation |     |
| Latitude: 36.6812        | Harvest Date: 11-Sep                      | °F                         | in.      | in.        |     |
| Elevation: 5,640 ft.     |   | January                    |          |            |     |
| Soil Name: Wall          |   | February                   |          |            |     |
| Soil Texture: sandy loam |   | March                      |          |            |     |
| Soil Depth: > 75 in.     |   | April                      |          |            |     |
|                          |   | May                        | 58.3     | 0.31       | 2.4 |
|                          |   | June                       | 73.4     | 0.02       | 6.2 |
|                          |   | July                       | 77.4     | 2.51       | 6.5 |
|                          |   | August                     | 73.4     | 0.11       | 4.8 |
|                          |   | September                  | 66.7     | 0.01       | 1.5 |
|                          |   | October                    |          |            |     |
|                          |   | November                   |          |            |     |
|                          |   | December                   |          |            |     |
|                          |   | Seasonal Precipitation     | 3.0 in.  |            |     |
|                          |   | Total Irrigation           | 21.4 in. |            |     |
|                          |   | Date of Last Spring Frost: | 19-May   |            |     |
|                          |   | Date of First Fall Frost:  | 25-Sep   |            |     |
|                          |   | Frost Free Period:         | 129 days |            |     |
| <b>Test Design:</b>      | <b>Production Inputs</b>                  |                            |          |            |     |
| Replications: 4          | Rate                                      | Date                       |          |            |     |
| Plot Length: 20 ft.      | <b>Fertilizer:</b>                        |                            |          |            |     |
| Rows per Plot: 4         | Dry Nitrogen                              | 12.5 lb/a                  | 1-May    |            |     |
| Row Spacing: 30 in.      | Nitrogen                                  | 17.5 lb/a                  | 17-May   |            |     |
|                          | Nitrogen                                  | 17.5 lb/a                  | 2-Jun    |            |     |
|                          | Nitrogen                                  | 17.5 lb/a                  | 9-Jun    |            |     |
|                          | Nitrogen                                  | 25 lb/a                    | 19-Jun   |            |     |
|                          | Nitrogen                                  | 25 lb/a                    | 22-Jun   |            |     |
|                          | Nitrogen                                  | 25 lb/a                    | 6-Jul    |            |     |
|                          | Nitrogen                                  | 25 lb/a                    | 13-Jul   |            |     |
|                          | Nitrogen                                  | 12.5 lb/a                  | 19-Jul   |            |     |
|                          | Nitrogen                                  | 12.5 lb/a                  | 20-Jul   |            |     |
|                          | Nitrogen                                  | 12.5 lb/a                  | 27-Jul   |            |     |
|                          | Nitrogen                                  | 12.5 lb/a                  | 28-Jul   |            |     |
|                          | Nitrogen                                  | 25 lb/a                    | 4-Aug    |            |     |
|                          | Total Nitrogen                            | 240 lb/a                   |          |            |     |
|                          | Dry P <sub>2</sub> O <sub>5</sub>         | 59 lb/a                    | 1-May    |            |     |
|                          | Dry K <sub>2</sub> O                      | 68 lb/a                    | 1-May    |            |     |
|                          | ZnSO <sub>4</sub>                         | 0 lb/a                     | 1-May    |            |     |
|                          | <b>Herbicides:</b>                        |                            |          |            |     |
|                          | DiFlexx                                   | 16 oz/a                    | 18-Jun   |            |     |
|                          | Aatrex 4L                                 | 1 qt/a                     | 18-Jun   |            |     |
|                          | Super Spread M                            | 12.8 oz/a                  | 18-Jun   |            |     |

**Table 8B. New Mexico 2017 Forage Corn Performance Test - Agricultural Science Center at Farmington**

**Results**

| Brand/Company Name | Hybrid/Variety Name | Moisture   |              |            |              |            | CP     | NDF    | NDFD   |        |        | Ash    | TDN    | Milk/Ton | Milk/Acre |
|--------------------|---------------------|------------|--------------|------------|--------------|------------|--------|--------|--------|--------|--------|--------|--------|----------|-----------|
|                    |                     | Dry Forage | Green Forage | at Harvest | Plant Height | Ear Height |        |        | 48hr   | Starch | %      |        |        |          |           |
|                    |                     | t/a        | t/a          | %          | in           | in         | %      | %      | %      | %      | %      | %      | lb/t   | lb/a     |           |
| Dyna-Gro Seed      | D58QC72 RIB         | 17.1       | 41.0         | 58.0       | 124          | 49         | 8.0    | 43.5   | 63.7   | 23.6   | 5.8    | 63.4   | 3,013  | 51,725   |           |
| Dyna-Gro Seed      | D53VC47 RIB         | 14.7       | 36.9         | 60.2       | 109          | 39         | 8.0    | 41.8   | 65.1   | 26.0   | 5.7    | 64.9   | 3,135  | 46,458   |           |
| Syngenta Seeds     | G07B39-3111A        | 14.5       | 38.1         | 61.9       | 116          | 50         | 7.9    | 44.3   | 65.6   | 22.8   | 6.3    | 64.1   | 3,080  | 44,902   |           |
| Syngenta Seeds     | G01D24-3120         | 13.1       | 35.1         | 62.5       | 104          | 39         | 6.9    | 42.0   | 62.0   | 23.5   | 5.8    | 60.8   | 2,811  | 36,964   |           |
| Syngenta Seeds     | G11B63-3010A        | 13.0       | 31.9         | 59.6       | 112          | 42         | 7.9    | 43.0   | 66.8   | 23.7   | 6.0    | 64.3   | 3,100  | 40,859   |           |
| Syngenta Seeds     | G13N18-3111         | 12.9       | 37.1         | 65.6       | 107          | 45         | 8.3    | 39.8   | 66.3   | 26.8   | 5.5    | 65.2   | 3,161  | 41,405   |           |
| Dyna-Gro Seed      | D54DC94 RIB         | 12.6       | 31.9         | 60.6       | 107          | 43         | 7.7    | 44.5   | 64.7   | 23.3   | 6.2    | 63.9   | 3,056  | 38,793   |           |
| Dyna-Gro Seed      | D58SS65 RIB         | 12.5       | 35.6         | 64.6       | 107          | 46         | 7.7    | 47.0   | 62.6   | 20.0   | 6.3    | 61.7   | 2,881  | 35,896   |           |
| Syngenta Seeds     | G07H81-3010A        | 12.3       | 28.7         | 57.2       | 106          | 42         | 7.7    | 41.8   | 63.8   | 26.0   | 5.7    | 64.2   | 3,070  | 37,712   |           |
| Dyna-Gro Seed      | D55VP77 RIB         | 10.8       | 29.4         | 62.8       | 102          | 43         | 8.4    | 41.1   | 65.1   | 27.1   | 5.6    | 65.9   | 3,201  | 34,418   |           |
|                    | Trial Mean          | 13.3       | 34.1         | 60.9       | 109          | 44         | 7.9    | 42.9   | 64.7   | 24.5   | 5.9    | 64.1   | 3,070  | 40,969   |           |
|                    | LSD                 | NS         | NS           | 10.5       | 20           | NS         | NS     | NS     | NS     | NS     | NS     | NS     | NS     | NS       |           |
|                    | LSD P >             | 0.05       | 0.05         | 0.05       | 0.05         | 0.05       | 0.05   | 0.05   | 0.05   | 0.05   | 0.05   | 0.05   | 0.05   | 0.05     |           |
|                    | CV                  | 23.4       | 20.1         | 5.9        | 6.2          | 11.3       | 9.4    | 7.9    | 3.0    | 16.0   | 8.5    | 3.6    | 5.7    | 26.1     |           |
|                    | F Test              | 0.2776     | 0.1754       | 0.0316     | 0.0073       | 0.0959     | 0.7478 | 0.1784 | 0.0913 | 0.2950 | 0.1889 | 0.4443 | 0.4126 | 0.4465   |           |

**Table 9A. New Mexico 2017 Dryland Grain Sorghum 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<br/>         Longitude: -103.22<br/>         Latitude: 34.60<br/>         Elevation: 4435 ft.<br/>         Soil Name: Olton<br/>         Soil Texture: clay loam<br/>         Soil Depth: &gt;60 in.</p> <p><b>Test Design:</b></p> <p>Replications: 3<br/>         Plot Length: 20 ft.<br/>         Rows per Plot: 2<br/>         Row Spacing: 30 in.<br/>         Seeding Rate: 29000 seed/ac</p> | <p><b>Management Practices:</b></p> <p>Previous Crop: fallow<br/>         Planting Date: 20-Jun<br/>         Harvest Date: 8-Nov</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>38 lb/a</td> <td>carryover</td> </tr> <tr> <td>Nitrogen</td> <td>30 lb/ac</td> <td>18-Apr</td> </tr> <tr> <td>P<sub>2</sub>O<sub>5</sub></td> <td>20 lb/ac</td> <td>18-Apr</td> </tr> <tr> <td>S</td> <td>4.4 lb/ac</td> <td>18-Apr</td> </tr> <tr> <td>Nitrogen</td> <td>46 lb/ac</td> <td>21-Jun</td> </tr> <tr> <td colspan="3"><b>Herbicides:</b></td> </tr> <tr> <td>Sharpen</td> <td>1.5 oz/ac</td> <td>at plant</td> </tr> <tr> <td>Atrazine</td> <td>1.5 pt/ac</td> <td>at plant</td> </tr> <tr> <td>Glyphosate</td> <td>48 oz/ac</td> <td>at plant</td> </tr> <tr> <td>Brawl</td> <td>1.5 pt/ac</td> <td>21-Jun</td> </tr> <tr> <td colspan="3"><b>Insecticides:</b></td> </tr> <tr> <td>Sivanto</td> <td>7 oz/ac</td> <td>30-Aug</td> </tr> <tr> <td>Dimilin</td> <td>2 oz/ac</td> <td>21-Jun</td> </tr> </tbody> </table> |                | Rate              | Date | <b>Fertilizer:</b> |  |  | Nitrogen | 38 lb/a | carryover | Nitrogen | 30 lb/ac | 18-Apr | P <sub>2</sub> O <sub>5</sub> | 20 lb/ac | 18-Apr | S | 4.4 lb/ac | 18-Apr | Nitrogen | 46 lb/ac | 21-Jun | <b>Herbicides:</b> |  |  | Sharpen | 1.5 oz/ac | at plant | Atrazine | 1.5 pt/ac | at plant | Glyphosate | 48 oz/ac | at plant | Brawl | 1.5 pt/ac | 21-Jun | <b>Insecticides:</b> |  |  | Sivanto | 7 oz/ac | 30-Aug | Dimilin | 2 oz/ac | 21-Jun | <p><b>Growing Conditions:</b></p> <table border="1"> <thead> <tr> <th></th> <th>Average<br/>Temp.<br/>°F</th> <th>Precip.<br/>in.</th> <th>Irrigation<br/>in.</th> </tr> </thead> <tbody> <tr><td>January</td><td>36.5</td><td></td><td></td></tr> <tr><td>February</td><td>45.8</td><td></td><td></td></tr> <tr><td>March</td><td>51.7</td><td></td><td></td></tr> <tr><td>April</td><td>55.5</td><td></td><td></td></tr> <tr><td>May</td><td>61.4</td><td></td><td></td></tr> <tr><td>June 20-30</td><td>74.1</td><td>0.74</td><td>1.0</td></tr> <tr><td>July</td><td>77.0</td><td>2.18</td><td></td></tr> <tr><td>August</td><td>71.0</td><td>7.87</td><td></td></tr> <tr><td>September</td><td>67.0</td><td>4.13</td><td></td></tr> <tr><td>October</td><td>56.5</td><td>2.04</td><td></td></tr> <tr><td>November 1-8</td><td>50.0</td><td>0.00</td><td></td></tr> <tr><td>December</td><td>38.0</td><td></td><td></td></tr> <tr> <td>Seasonal Precipitation:</td> <td></td> <td>17.0 in.</td> <td></td> </tr> <tr> <td>Total Irrigation:</td> <td></td> <td>1.0 in.</td> <td></td> </tr> <tr> <td>Date of Last Spring Frost:</td> <td></td> <td>1-May</td> <td></td> </tr> <tr> <td>Date of First Fall Frost:</td> <td></td> <td>10-Oct</td> <td></td> </tr> <tr> <td>Frost Free Period:</td> <td></td> <td>162 days</td> <td></td> </tr> </tbody> </table> |  | Average<br>Temp.<br>°F | Precip.<br>in. | Irrigation<br>in. | January | 36.5 |  |  | February | 45.8 |  |  | March | 51.7 |  |  | April | 55.5 |  |  | May | 61.4 |  |  | June 20-30 | 74.1 | 0.74 | 1.0 | July | 77.0 | 2.18 |  | August | 71.0 | 7.87 |  | September | 67.0 | 4.13 |  | October | 56.5 | 2.04 |  | November 1-8 | 50.0 | 0.00 |  | December | 38.0 |  |  | Seasonal Precipitation: |  | 17.0 in. |  | Total Irrigation: |  | 1.0 in. |  | Date of Last Spring Frost: |  | 1-May |  | Date of First Fall Frost: |  | 10-Oct |  | Frost Free Period: |  | 162 days |  |
|---|--|----------------|-------------------|------|--------------------|--|--|----------|---------|-----------|----------|----------|--------|-------------------------------|----------|--------|---|-----------|--------|----------|----------|--------|--------------------|--|--|---------|-----------|----------|----------|-----------|----------|------------|----------|----------|-------|-----------|--------|----------------------|--|--|---------|---------|--------|---------|---------|--------|--|--|------------------------|----------------|-------------------|---------|------|--|--|----------|------|--|--|-------|------|--|--|-------|------|--|--|-----|------|--|--|------------|------|------|-----|------|------|------|--|--------|------|------|--|-----------|------|------|--|---------|------|------|--|--------------|------|------|--|----------|------|--|--|-------------------------|--|----------|--|-------------------|--|---------|--|----------------------------|--|-------|--|---------------------------|--|--------|--|--------------------|--|----------|--|
|   | Rate   | Date           |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| <b>Fertilizer:</b>  |  |                |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Nitrogen  | 38 lb/a  | carryover      |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Nitrogen  | 30 lb/ac   | 18-Apr         |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| P <sub>2</sub> O <sub>5</sub>   | 20 lb/ac   | 18-Apr         |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| S   | 4.4 lb/ac  | 18-Apr         |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Nitrogen  | 46 lb/ac   | 21-Jun         |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| <b>Herbicides:</b>  |  |                |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Sharpen   | 1.5 oz/ac  | at plant       |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Atrazine  | 1.5 pt/ac  | at plant       |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Glyphosate  | 48 oz/ac   | at plant       |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Brawl   | 1.5 pt/ac  | 21-Jun         |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| <b>Insecticides:</b>  |  |                |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Sivanto   | 7 oz/ac  | 30-Aug         |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Dimilin   | 2 oz/ac  | 21-Jun         |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
|   | Average<br>Temp.<br>°F   | Precip.<br>in. | Irrigation<br>in. |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| January   | 36.5   |                |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| February  | 45.8   |                |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| March   | 51.7   |                |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| April   | 55.5   |                |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| May   | 61.4   |                |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| June 20-30  | 74.1   | 0.74           | 1.0               |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| July  | 77.0   | 2.18           |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| August  | 71.0   | 7.87           |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| September   | 67.0   | 4.13           |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| October   | 56.5   | 2.04           |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| November 1-8  | 50.0   | 0.00           |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| December  | 38.0   |                |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Seasonal Precipitation:   |  | 17.0 in.       |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Total Irrigation:   |  | 1.0 in.        |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Date of Last Spring Frost:  |  | 1-May          |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Date of First Fall Frost:   |  | 10-Oct         |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |
| Frost Free Period:  |  | 162 days       |                   |      |                    |  |  |          |         |           |          |          |        |                               |          |        |   |           |        |          |          |        |                    |  |  |         |           |          |          |           |          |            |          |          |       |           |        |                      |  |  |         |         |        |         |         |        |  |  |                        |                |                   |         |      |  |  |          |      |  |  |       |      |  |  |       |      |  |  |     |      |  |  |            |      |      |     |      |      |      |  |        |      |      |  |           |      |      |  |         |      |      |  |              |      |      |  |          |      |  |  |                         |  |          |  |                   |  |         |  |                            |  |       |  |                           |  |        |  |                    |  |          |  |

**Table 9B. New Mexico 2017 Dryland Grain Sorghum Performance Test - Agricultural Science Center at Clovis**

**Results**

| Brand/Company Name | Hybrid/Variety Name | Grain Yield<br>bu/a | Grain Yield<br>lb/a | Moisture        | Test Weight<br>lb/bu | Plant Height<br>in | Head Exertion<br>in | Lodging<br>% | Heading Date |
|--------------------|---------------------|---------------------|---------------------|-----------------|----------------------|--------------------|---------------------|--------------|--------------|
|                    |                     |                     |                     | at Harvest<br>% |                      |                    |                     |              |              |
| Pioneer            | 85P05               | 143.4 ***           | 8033 ***            | 19.8 ***        | 53.9 *               | 17.6 *             | 5.8                 | 0            | 14-Aug *     |
| DeKalb             | 37-07               | 134.9 *             | 7558 *              | 18.3 *          | 51.7 *               | 22.7               | 8.0 *               | 0            | 15-Aug *     |
| NuTech Seed, LLC   | GS 663              | 133.6 *             | 7485 *              | 18.1 *          | 53.4 *               | 26.3 *             | 7.2                 | 0            | 13-Aug *     |
| Alta Seeds         | ADV G1150           | 133.5 *             | 7475 *              | 18.0 *          | 50.2                 | 24.9               | 8.7 *               | 0            | 17-Aug *     |
| Dyna-Gro Seed      | M60GB31             | 132.8 *             | 7438 *              | 17.9 *          | 54.3 *               | 25.5               | 8.3 *               | 0            | 15-Aug *     |
| Dyna-Gro Seed      | GX17818             | 132.4 *             | 7418 *              | 17.8 *          | 52.1 *               | 29.2 ***           | 7.5 *               | 0            | 21-Aug *     |
| Dyna-Gro Seed      | M60GB88             | 130.5 *             | 7310 *              | 17.5 *          | 50.5                 | 26.7 *             | 7.5 *               | 0            | 6-Jul        |
| NuTech Seed, LLC   | GS 693              | 129.9 *             | 7271 *              | 17.4            | 54.2 *               | 27.0 *             | 6.8                 | 0            | 19-Aug *     |
| Chromatin, Inc.    | SP 68M57            | 129.1 *             | 7229 *              | 17.3            | 52.6 *               | 23.6               | 5.9                 | 0            | 16-Aug *     |
| NuTech Seed, LLC   | GS 636              | 128.7 *             | 7208 *              | 17.2            | 53.6 *               | 24.1               | 8.2 *               | 0            | 19-Aug *     |
| Alta Seeds         | AG 1203             | 124.6               | 6976                | 16.5            | 53.8 *               | 24.5               | 7.9 *               | 0            | 19-Aug *     |
| Dyna-Gro Seed      | M60GB31             | 124.4               | 6966                | 16.5            | 53.5 *               | 24.0               | 6.8                 | 0            | 16-Aug *     |
| Dyna-Gro Seed      | GX16535             | 124.2               | 6958                | 16.5            | 52.0 *               | 27.3 *             | 8.7 *               | 0            | 18-Aug *     |
| Dyna-Gro Seed      | M74GB17             | 115.9               | 6490                | 15.1            | 54.1 *               | 27.4 *             | 7.6 *               | 0            | 21-Aug ***   |
| Chromatin, Inc.    | SP 34A19            | 114.5               | 6413                | 14.9            | 45.6                 | 19.8               | 7.8 *               | 0            | 13-Aug *     |
| Chromatin, Inc.    | SP 31A15            | 113.6               | 6364                | 14.8            | 44.3                 | 23.3               | 7.3                 | 0            | 11-Aug *     |
| NuTech Seed, LLC   | GS 725              | 113.4               | 6350                | 14.8            | 54.4 ***             | 25.7 *             | 7.1                 | 0            | 20-Aug *     |
| Chromatin, Inc.    | SP 33S40            | 112.2               | 6284                | 14.6            | 53.9 *               | 22.5               | 9.7 *               | 0            | 17-Aug *     |
| Dyna-Gro Seed      | M59GB57             | 106.6               | 5973                | 13.7            | 50.9                 | 20.1               | 7.1                 | 0            | 11-Aug *     |
| Chromatin, Inc.    | CHR0163             | 99.1                | 5551                | 12.5            | 48.0                 | 19.5               | 4.2                 | 0            | 13-Aug *     |
| Chromatin, Inc.    | SP 25C10            | 83.4                | 4669                | 10.3            | 49.1                 | 14.7               | 8.5 *               | 0            | 8-Aug *      |
| Chromatin, Inc.    | CHR0039             | 83.4                | 4669                | 10.3            | 47.0                 | 15.7               | 9.8 ***             | 0            | 9-Aug *      |
|                    | Trial Mean          | 119.8               | 6709                | 15.8            | 51.4                 | 23.7               | 7.6                 | -            | 13-Aug       |
|                    | LSD (P > 0.05)      | 15.0                | 842                 | 2.4             | 3.2                  | 4.2                | 2.5                 | -            | 22           |
|                    | CV                  | 7.6                 | 7.6                 | 9.2             | 3.7                  | 10.8               | 19.7                | -            | 6.0          |
|                    | F Test              | <0.0001             | <0.0001             | <0.0001         | <0.0001              | <0.0001            | 0.02                | -            | 0.1859       |

\*\*\* Highest numerical value in the column.

\* Not significantly different from the highest numerical value in the column based on the 5% LSD.



**Table 10A. New Mexico 2017 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Artesia**

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

**Test Description**

| <b>Location:</b>            | <b>Management Practices:</b>                            | <b>Growing Conditions:</b>                               |
|-----------------------------|---|--|
| County/Area: Eddy           | Previous Crop: fallow                                   |  |
| Longitude: -104.38          | Planting Date: 18-May                                   |  |
| Latitude: 32.75             | Harvest Date: 21-Sep                                    |  |
| Elevation: 3360 ft.         |   |  |
| Soil Name: Pima             |   |  |
| Soil Texture: silt loam/scl |   |  |
| Soil Depth: 60 in.          |   |  |
|                             | <b>Production Inputs</b>                                |  |
|                             | <u>Rate</u> <u>Date</u>                                 |  |
|                             | Fertilizer:   |  |
|                             | Nitrogen            100 lb/a            16-Jun          |  |
|                             | P <sub>2</sub> O <sub>5</sub> 80 lb/a            16-Jun |  |
|                             | K <sub>2</sub> O                 0 lb/a                 |  |
|                             | Zn                    1 lb/a            16-Jun          |  |
|                             | Cultivation:  |  |
|                             |   | 17-Jun   |
|                             | Herbicides:   |  |
|                             | none  |  |
|                             | Insecticides:   |  |
|                             | None  |  |
| <b>Test Design:</b>         |   |  |
| Replications: 3             |   |  |
| Plot Length: 22 ft.         |   |  |
| Rows per Plot: 2            |   |  |
| Row Spacing: 40 in.         |   |  |
| Seeding Rate: 80,000 seed/a |   |  |
|                             |   | Average  |
|                             |   | Temp.            Precip.            Irrigation           |
|                             |   | °F                in.                in.                 |
|                             |   | January            43.9            0.89                  |
|                             |   | February           50.4            0.41                  |
|                             |   | March              57.7            0.02                  |
|                             |   | April               62.8            1.09                 |
|                             |   | May                67.3            0.30            4.00  |
|                             |   | June                79.6            1.83            3.00 |
|                             |   | July                81.1            1.49            6.00 |
|                             |   | August             77.9            3.15            6.00  |
|                             |   | September        73.4            1.92            4.00    |
|                             |   | October            61.6            0.43                  |
|                             |   | November   |
|                             |   | December   |
|                             |   | Seasonal Precipitation  9.80 in.                         |
|                             |   | Total Irrigation 23.00 in.                               |
|                             |   | in.  |
|                             |   | Date of Last Spring Frost: 30-Apr                        |
|                             |   | Date of First Fall Frost: 28-Oct                         |
|                             |   | Frost Free Period: 181 days                              |

**Table 10B. New Mexico 2017 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 | 65% Adj Dry Matter |              |            | CP     | NDF    | NDFD 30hr | Ash    | TDN     | NE <sub>L</sub> | Milk/ Ton | Milk/ Acre |
|--------------------|---------------------|---------------------------|-----------------------------|--------------|--------------------|--------------|------------|--------|--------|-----------|--------|---------|-----------------|-----------|------------|
|                    |                     |                           |                             |              | Dry Forage         | Green Forage | at Harvest |        |        |           |        |         |                 |           |            |
|                    |                     |                           |                             |              | t/a                | t/a          | %          | %      | %      | %         | %      | Mcal/lb | lb/t            | lb/a      |            |
| Dyna-Gro Seed      | 705F                | FS                        | ME                          | N            | 8.0                | 22.9         | 35.5       | 5.6    | 61.7   | 57.3      | 6.1    | 61.0    | 0.533           | 3330      | 25680      |
| Dyna-Gro Seed      | F74FS23BMR          | FS                        | M                           | Y            | 7.6                | 21.7         | 30.3       | 6.3    | 52.9   | 72.7      | 6.6    | 69.7    | 0.670           | 3923      | 29954      |
| Alta Seeds         | ADV 6504            | SxS                       | PS                          | Y            | 7.1                | 20.3         | 26.8       | 6.4    | 61.2   | 70.3      | 8.3    | 64.7    | 0.573           | 3550      | 25175      |
| Alta Seeds         | AF-7401             | FS                        | L                           | Y            | 6.3                | 18.0         | 29.5       | 8.3    | 62.8   | 71.0      | 8.7    | 65.7    | 0.570           | 3554      | 21305      |
| Dyna-Gro Seed      | F76FS77BMR          | FS                        | ML                          | Y            | 6.2                | 17.7         | 29.0       | 8.0    | 63.7   | 69.7      | 8.7    | 64.3    | 0.553           | 3494      | 21222      |
| Alta Seeds         | XF7302              | FS                        | M                           | Y            | 6.0                | 17.1         | 30.0       | 7.4    | 59.1   | 71.0      | 8.2    | 66.7    | 0.607           | 3671      | 22724      |
| Alta Seeds         | XF-7303             | FS                        | M                           | Y            | 5.9                | 16.9         | 33.0       | 8.7    | 63.2   | 70.7      | 9.0    | 64.7    | 0.557           | 3524      | 18588      |
| Dyna-Gro Seed      | Dual Forage SCA     | GS                        | ML                          | N            | 5.1                | 14.6         | 35.3       | 6.8    | 60.1   | 64.3      | 7.5    | 64.7    | 0.583           | 3461      | 15905      |
| Alta Seeds         | XF7103              | FS                        | E                           | Y            | 3.2                | 9.1          | 36.3       | 5.6    | 59.0   | 69.7      | 7.4    | 66.3    | 0.600           | 3665      | 13337      |
| Trial Mean         |                     |                           |                             |              | 6.1                | 17.4         | 31.7       | 7.0    | 60.4   | 68.5      | 7.8    | 65.3    | 0.583           | 3575      | 21543      |
| LSD                |                     |                           |                             |              | 1.9                | 5.6          | 3.7        | 1.9    | NS     | 3.6       | 1.9    | 4.0     | 0.087           | 273       | 9426       |
| LSD P >            |                     |                           |                             |              | 0.05               | 0.05         | 0.05       | 0.05   | 0.05   | 0.05      | 0.05   | 0.05    | 0.05            | 0.05      | 0.05       |
| CV                 |                     |                           |                             |              | 20.7               | 19.2         | 7.9        | 16.0   | 7.4    | 3.0       | 14.0   | 3.6     | 8.7             | 4.4       | 25.3       |
| F Test             |                     |                           |                             |              | 0.0008             | 0.0001       | 0.0001     | 0.0245 | 0.1879 | 0.0001    | 0.0540 | 0.0290  | 0.1312          | 0.0191    | 0.0424     |

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

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

Brown Midrib Trait: BMR = Brown Midrib, Conv = Conventional

**Table 11A. New Mexico 2017 Irrigated Forage Sorghum & Sorghum Sudangrass (Multi-Cut) Performance Test - Agricultural Science Center at Artesia**

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

**Test Description**

| <b>Location:</b>              |                  | <b>Management Practices:</b>   |                |        | <b>Growing Conditions:</b>  |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
|-------------------------------|------------------|--|----------------|--------|---|------|------|--------------------|--|------------------|-------------|----------------|---------|-------------------------------|---------|--------|------------------|--------|------|----|--------|--------|--------------|------|-------|-------------|------|--|-------|------|------|---------------|------|------|------|------|------|------|------|------|--------|------|------|------|-----------|------|------|------|---------|------|------|--|----------|--|--|--|----------|--|--|--|------------------------|--|----------|--|------------------|--|-----------|--|--|--|----|--|----------------------------|--|--------|--|---------------------------|--|--------|--|--------------------|--|----------|--|
| County/Area:                  | Eddy             | Previous Crop:   | fallow         |        | <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>43.9</td><td>0.89</td><td></td></tr> <tr><td>February</td><td>50.4</td><td>0.41</td><td></td></tr> <tr><td>March</td><td>57.7</td><td>0.02</td><td></td></tr> <tr><td>April</td><td>62.8</td><td>1.09</td><td></td></tr> <tr><td>May</td><td>67.3</td><td>0.30</td><td>4.00</td></tr> <tr><td>June</td><td>79.6</td><td>1.83</td><td>2.00</td></tr> <tr><td>July</td><td>81.1</td><td>1.49</td><td>6.00</td></tr> <tr><td>August</td><td>77.9</td><td>3.15</td><td>6.00</td></tr> <tr><td>September</td><td>73.4</td><td>1.92</td><td>4.00</td></tr> <tr><td>October</td><td>61.6</td><td>0.43</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>9.80 in.</td><td></td></tr> <tr><td colspan="2">Total Irrigation</td><td>22.00 in.</td><td></td></tr> <tr><td colspan="2"></td><td>32</td><td></td></tr> <tr><td colspan="2">Date of Last Spring Frost:</td><td>30-Apr</td><td></td></tr> <tr><td colspan="2">Date of First Fall Frost:</td><td>28-Oct</td><td></td></tr> <tr><td colspan="2">Frost Free Period:</td><td>181 days</td><td></td></tr> </tbody> </table> |      |      |                    |  | Average Temp. °F | Precip. in. | Irrigation in. | January | 43.9                          | 0.89    |        | February         | 50.4   | 0.41 |    | March  | 57.7   | 0.02         |      | April | 62.8        | 1.09 |  | May   | 67.3 | 0.30 | 4.00          | June | 79.6 | 1.83 | 2.00 | July | 81.1 | 1.49 | 6.00 | August | 77.9 | 3.15 | 6.00 | September | 73.4 | 1.92 | 4.00 | October | 61.6 | 0.43 |  | November |  |  |  | December |  |  |  | Seasonal Precipitation |  | 9.80 in. |  | Total Irrigation |  | 22.00 in. |  |  |  | 32 |  | Date of Last Spring Frost: |  | 30-Apr |  | Date of First Fall Frost: |  | 28-Oct |  | Frost Free Period: |  | 181 days |  |
|                               | Average Temp. °F | Precip. in.  | Irrigation in. |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| January                       | 43.9             | 0.89   |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| February                      | 50.4             | 0.41   |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| March                         | 57.7             | 0.02   |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| April                         | 62.8             | 1.09   |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| May                           | 67.3             | 0.30   | 4.00           |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| June                          | 79.6             | 1.83   | 2.00           |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| July                          | 81.1             | 1.49   | 6.00           |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| August                        | 77.9             | 3.15   | 6.00           |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| September                     | 73.4             | 1.92   | 4.00           |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| October                       | 61.6             | 0.43   |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| November                      |                  |  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| December                      |                  |  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Seasonal Precipitation        |                  | 9.80 in.   |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Total Irrigation              |                  | 22.00 in.  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
|                               |                  | 32   |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Date of Last Spring Frost:    |                  | 30-Apr   |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Date of First Fall Frost:     |                  | 28-Oct   |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Frost Free Period:            |                  | 181 days   |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Longitude:                    | -104.38          | Planting Date:   | 19-May         |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Latitude:                     | 32.75            | Harvest Dates:   | 24-Jul         | 20-Sep |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Elevation:                    | 3360 ft.         | <b>Production Inputs</b>   |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Soil Name:                    | Pima             | <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>16-Jun</td></tr> <tr><td>P<sub>2</sub>O<sub>5</sub></td><td>80 lb/a</td><td>16-Jun</td></tr> <tr><td>K<sub>2</sub>O</td><td>0 lb/a</td><td></td></tr> <tr><td>Zn</td><td>1 lb/a</td><td>16-Jun</td></tr> <tr><td>Cultivation:</td><td>hand</td><td>3-Jun</td></tr> <tr><td>Herbicides:</td><td>none</td><td></td></tr> <tr><td colspan="3">pts/a</td></tr> <tr><td>Insecticides:</td><td>None</td><td></td></tr> </tbody> </table> |                |        |   | Rate | Date | <b>Fertilizer:</b> |  |                  | Nitrogen    | 100 lb/a       | 16-Jun  | P <sub>2</sub> O <sub>5</sub> | 80 lb/a | 16-Jun | K <sub>2</sub> O | 0 lb/a |      | Zn | 1 lb/a | 16-Jun | Cultivation: | hand | 3-Jun | Herbicides: | none |  | pts/a |      |      | Insecticides: | None |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
|                               | Rate             | Date   |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| <b>Fertilizer:</b>            |                  |  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Nitrogen                      | 100 lb/a         | 16-Jun   |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| P <sub>2</sub> O <sub>5</sub> | 80 lb/a          | 16-Jun   |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| K <sub>2</sub> O              | 0 lb/a           |  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Zn                            | 1 lb/a           | 16-Jun   |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Cultivation:                  | hand             | 3-Jun  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Herbicides:                   | none             |  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| pts/a                         |                  |  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Insecticides:                 | None             |  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Soil Texture:                 | silt loam/scl    |  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Soil Depth:                   | 60 in.           |  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| <b>Test Design:</b>           |                  |  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Replications:                 | 3                |  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Plot Length:                  | 22 ft.           |  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Rows per Plot:                | 2                |  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Row Spacing:                  | 14 in.           |  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |
| Seeding Rate:                 | 80,000 seed/a    |  |                |        |   |      |      |                    |  |                  |             |                |         |                               |         |        |                  |        |      |    |        |        |              |      |       |             |      |  |       |      |      |               |      |      |      |      |      |      |      |      |        |      |      |      |           |      |      |      |         |      |      |  |          |  |  |  |          |  |  |  |                        |  |          |  |                  |  |           |  |  |  |    |  |                            |  |        |  |                           |  |        |  |                    |  |          |  |

**Table 11B. New Mexico 2017 Irrigated Forage Sorghum & Sorghum Sudangrass (Multi-Cut) Performance Test - Agricultural Science Center at Artesia**

**Results**

| Brand/Company Name | Hybrid/Variety Name | Type <sup>1</sup> | Harvest 1  |              |                  |          |           | Harvest 2  |              |                  |          |           | Total      |           |
|--------------------|---------------------|-------------------|------------|--------------|------------------|----------|-----------|------------|--------------|------------------|----------|-----------|------------|-----------|
|                    |                     |                   | Dry Forage | Green Forage | Harvest Moisture | Milk/Ton | Milk/Acre | Dry Forage | Green Forage | Harvest Moisture | Milk/Ton | Milk/Acre | Dry Forage | Milk/Acre |
|                    |                     |                   | t/a        | t/a          | %                | lb/t     | lb/a      | t/a        | t/a          | %                | lb/t     | lb/a      | t/a        | lb/a      |
| Blue River Hybrids | Seahawk             | SxS               | 5.5        | 23.4         | 76.2             | 3711     | 19527     | 8.1        | 29.8         | 73.0             | 3672     | 34977     | 13.6       | 54504     |
| Alta Seeds         | AS-6401             | SxS               | 3.7        | 19.5         | 81.0             | 3743     | 13275     | 8.4        | 36.3         | 77.0             | 3734     | 29667     | 12.1       | 42941     |
| Blue River Hybrids | Blackhawk           | SxS               | 4.8        | 19.6         | 75.5             | 3734     | 18863     | 7.3        | 29.6         | 75.2             | 3708     | 33795     | 12.1       | 52658     |
| Blue River Hybrids | Pelican             | SxS               | 4.3        | 18.7         | 76.7             | 3844     | 15481     | 7.6        | 28.4         | 73.5             | 3722     | 29356     | 11.9       | 44837     |
| Dyna-Gro Seed      | Dannyboy BMR        | SxS               | 3.7        | 18.0         | 79.0             | 3777     | 15203     | 7.2        | 30.1         | 75.7             | 3738     | 31702     | 10.9       | 46905     |
| Blue River Hybrids | Nighthawk           | SxS               | 3.7        | 17.1         | 78.0             | 3695     | 13010     | 6.5        | 24.9         | 74.0             | 3663     | 24403     | 10.2       | 37412     |
| Alta Seeds         | AS-6402             | SxS               | 3.7        | 15.6         | 76.5             | 3707     | 12001     | 6.1        | 22.9         | 73.5             | 3608     | 25263     | 9.8        | 37264     |
| Dyna-Gro Seed      | Fullgraze BMR       | SxS               | 3.6        | 16.7         | 78.0             | 3700     | 12400     | 6.0        | 24.9         | 75.5             | 3677     | 26438     | 9.6        | 38838     |
| Trial Mean         |                     |                   | 4.0        | 18.6         | 77.6             | 3739     | 14970     | 7.1        | 28.4         | 74.7             | 3690     | 29450     | 11.3       | 44420     |
| LSD                |                     |                   | 1.0        | 4.6          | 2.9              | 81       | 3407      | NS         | NS           | 2.0              | 83       | 4290      | 2.7        | 5719      |
| CV                 |                     |                   | 16.0       | 17.0         | 8.8              | 1.2      | 13.0      | 21.7       | 20.9         | 5.3              | 1.3      | 8.3       | 16.4       | 7.4       |
| F Test             |                     |                   | 0.0034     | 0.0678       | 0.0179           | 0.0207   | 0.0014    | 0.3089     | 0.1022       | 0.0043           | 0.0664   | 0.0007    | 0.0731     | 0.0001    |

<sup>1</sup>FS and SxS signify forage sorghum and sorghum x sudangrass, respectively.

**Table 11C. New Mexico 2017 Irrigated Forage Sorghum & Sorghum Sudangrass (Multi-Cut) Performance Test - Agricultural Science Center at Artesia**

**Results**

| Brand/Company<br>Name | Hybrid/Variety<br>Name | Type <sup>1</sup> | Harvest 1 |        |         |        |        |                 | Harvest 2 |        |         |        |        |                 |
|-----------------------|------------------------|-------------------|-----------|--------|---------|--------|--------|-----------------|-----------|--------|---------|--------|--------|-----------------|
|                       |                        |                   | NDFD      |        |         |        |        |                 | NDFD      |        |         |        |        |                 |
|                       |                        |                   | CP        | NDF    | 48hr    | RFQ    | TDN    | NE <sub>i</sub> | CP        | NDF    | 48hr    | RFQ    | TDN    | NE <sub>i</sub> |
| %                     | %                      | %                 | %         | %      | Mcal/lb | %      | %      | %               | %         | %      | Mcal/lb |        |        |                 |
| BlueRiver             | Seahawk                | SxS               | 8.1       | 59.8   | 74.0    | 142    | 67.7   | 0.610           | 8.1       | 61.5   | 74.0    | 138    | 64.7   | 0.573           |
| Advanta_Alta          | AS-6401                | SxS               | 8.4       | 61.6   | 79.3    | 149    | 66.3   | 0.587           | 9.3       | 59.6   | 77.0    | 147    | 64.0   | 0.577           |
| BlueRiver             | Blackhawk              | SxS               | 7.3       | 61.2   | 72.7    | 141    | 68.0   | 0.607           | 8.9       | 61.6   | 74.7    | 143    | 64.0   | 0.567           |
| BlueRiver             | Pelican                | SxS               | 7.6       | 59.1   | 76.7    | 152    | 68.3   | 0.620           | 9.2       | 61.1   | 76.0    | 145    | 65.0   | 0.580           |
| DynaGro               | Dannyboy BMR           | SxS               | 7.2       | 60.8   | 77.7    | 152    | 66.3   | 0.593           | 8.9       | 59.9   | 77.3    | 146    | 64.7   | 0.583           |
| BlueRiver             | Nighthawk              | SxS               | 6.5       | 63.8   | 76.7    | 144    | 66.3   | 0.573           | 10.0      | 61.9   | 75.7    | 144    | 63.0   | 0.560           |
| Advanta_Alta          | AS-6402                | SxS               | 6.1       | 61.4   | 75.7    | 145    | 67.3   | 0.597           | 9.7       | 60.8   | 73.3    | 140    | 63.3   | 0.567           |
| DynaGro               | Fullgraze BMR          | SxS               | 6.0       | 61.3   | 73.3    | 144    | 67.0   | 0.597           | 9.3       | 60.9   | 74.7    | 143    | 63.7   | 0.570           |
|                       | Trial Mean             |                   | 7.1       | 61.1   | 75.8    | 146    | 67.2   | 0.598           | 9.2       | 60.9   | 75.3    | 143    | 64.0   | 0.572           |
|                       | LSD                    |                   | NS        | 2.7    | 2.4     | NS     | 1.6    | NS              | 1.1       | NS     | 1.8     | 7      | 1.6    | NS              |
|                       | CV                     |                   | 21.7      | 2.5    | 1.7     | 3.9    | 1.4    | 2.9             | 7.0       | 2.2    | 1.0     | 2.8    | 1.4    | 2.7             |
|                       | F Test                 |                   | 0.3089    | 0.0722 | 0.0004  | 0.1733 | 0.0946 | 0.1058          | 0.0896    | 0.4228 | 0.0029  | 0.1535 | 0.1619 | 0.6292          |

<sup>1</sup>FS and SxS signify forage sorghum and sorghum x sudangrass, respectively.

**Table 12A. New Mexico 2017 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: 31-May                                      |                            |          |            |
| Latitude: 34.60            | Harvest Date: 13-Oct                                       |                            |          |            |
| Elevation: 4435 ft.        |  |                            |          |            |
| Soil Name: Olton           |  |                            |          |            |
| Soil Texture: clay loam    |  |                            |          |            |
| Soil Depth: >60 in.        |  |                            |          |            |
|                            | <b>Production Inputs</b>                                   |                            |          |            |
|                            | Rate                      Date                             |                            |          |            |
|                            | <b>Fertilizer:</b>   |                            |          |            |
|                            | Nitrogen            81 lb/ac            carryover          |                            |          |            |
|                            | Nitrogen            100 lb/ac           at plant           |                            |          |            |
|                            | P <sub>2</sub> O <sub>5</sub> 35 lb/ac            at plant |                            |          |            |
|                            | S                 16 lb/ac            at plant             |                            |          |            |
|                            | Zn                1 qt/ac             at plant             |                            |          |            |
|                            | <b>Herbicides:</b>   |                            |          |            |
|                            | Atrazine        1.5 pt/ac           at plant               |                            |          |            |
|                            | Huskie          1 pt/ac             5-Jul                  |                            |          |            |
|                            | Brawl           12 oz/ac            5-Jul                  |                            |          |            |
|                            | Atrazine        8 oz/ac             5-Jul                  |                            |          |            |
|                            | <b>Insecticides:</b>                                       |                            |          |            |
|                            | Sivanto         7 oz/ac             30-Aug                 |                            |          |            |
|                            | Sivanto         7 oz/ac             2-Oct                  |                            |          |            |
| <b>Test Design:</b>        |  |                            |          |            |
| Replications: 3            |  |                            |          |            |
| Plot Length: 20 ft.        |  |                            |          |            |
| Rows per Plot: 2           |  |                            |          |            |
| Row Spacing: 30 in.        |  |                            |          |            |
| Seeding Rate: 75000 seed/a |  |                            |          |            |
|                            |  | Average                    |          |            |
|                            |  | Temp.                      | Precip.  | Irrigation |
|                            |  | °F                         | in.      | in.        |
|                            |  | January                    | 36.5     |            |
|                            |  | February                   | 45.8     |            |
|                            |  | March                      | 51.7     |            |
|                            |  | April                      | 55.5     |            |
|                            |  | May                        | 61.4     |            |
|                            |  | June                       | 74.1     | 1.02       |
|                            |  | July                       | 77.0     | 3.60       |
|                            |  | August                     | 71.0     | 7.87       |
|                            |  | September                  | 67.0     | 4.13       |
|                            |  | October 1-13               | 56.5     | 2.01       |
|                            |  | November                   | 50.0     |            |
|                            |  | December                   | 38.0     |            |
|                            |  | Seasonal Precipitation:    | 17.2 in. |            |
|                            |  | Total Irrigation:          | 9.5 in.  |            |
|                            |  | Date of Last Spring Frost: | 1-May    |            |
|                            |  | Date of First Fall Frost:  | 10-Oct   |            |
|                            |  | Frost Free Period:         | 162 days |            |

**Table 12B. New Mexico 2017 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Clovis**

**Results**

| Brand/Company Name | Hybrid/Variety Name | Sorghum <sup>†</sup> Type | Maturity <sup>§</sup> Group | Brown Midrib | Moisture       |                  |              | CP     | NDF    | NDFD 48hr | Ash    | TDN    | NE <sub>l</sub> Mcal/lb | Milk/Ton lb/t | Milk/Acre lb/a |
|--------------------|---------------------|---------------------------|-----------------------------|--------------|----------------|------------------|--------------|--------|--------|-----------|--------|--------|-------------------------|---------------|----------------|
|                    |                     |                           |                             |              | Dry Forage t/a | Green Forage t/a | at Harvest % |        |        |           |        |        |                         |               |                |
| NuTech Seed, LLC   | FS300               | FS                        | ML                          | Conv         | 7.6            | 19.5             | 60.9         | 8.4    | 52.2   | 61.6      | 5.5    | 62.3   | 0.638                   | 3085          | 23527          |
| Dyna-Gro Seed      | 705F                | FS                        | ME                          | Conv         | 7.4            | 19.2             | 61.5         | 8.4    | 49.5   | 62.1      | 6.1    | 61.5   | 0.629                   | 3017          | 22367          |
| Dyna-Gro Seed      | F74FS23 BMR         | FS                        | M                           | BMR          | 6.8            | 21.2             | 68.1         | 8.4    | 51.2   | 68.8      | 6.5    | 62.7   | 0.643                   | 2965          | 20102          |
| NuTech Seed, LLC   | FSB310              | FS                        | ML                          | BMR          | 6.6            | 23.6             | 71.7         | 9.7    | 48.7   | 68.6      | 6.9    | 64.4   | 0.662                   | 2972          | 19711          |
| Blue River Hybrids | Seahawk             | SxS                       | ML                          | BMR          | 6.5            | 16.8             | 61.4         | 7.6    | 54.8   | 60.0      | 5.5    | 60.5   | 0.618                   | 3119          | 20248          |
| NuTech Seed, LLC   | PrimeCut            | SxS                       | PS                          | Conv         | 6.4            | 31.1             | 79.4         | 7.9    | 59.3   | 62.5      | 6.7    | 57.1   | 0.580                   | 3240          | 20724          |
| Alta Seeds         | AF7401              | FS                        | L                           | BMR          | 6.3            | 23.2             | 73.0         | 9.1    | 47.3   | 71.3      | 6.8    | 66.2   | 0.681                   | 2973          | 18532          |
| Alta Seeds         | XF7302              | FS                        | M                           | BMR          | 6.2            | 20.9             | 70.0         | 9.0    | 52.9   | 70.1      | 7.4    | 64.6   | 0.664                   | 3050          | 18915          |
| Blue River Hybrids | Nighthawk           | SxS                       | L                           | BMR          | 5.9            | 19.4             | 69.4         | 9.2    | 52.9   | 68.5      | 7.0    | 63.4   | 0.650                   | 2936          | 17319          |
| Blue River Hybrids | Blackhawk           | SxS                       | ML                          | BMR          | 5.7            | 17.6             | 67.3         | 7.9    | 55.5   | 64.3      | 5.7    | 61.8   | 0.633                   | 2982          | 17109          |
| Alta Seeds         | XF7303              | FS                        | M                           | BMR          | 5.5            | 16.2             | 65.9         | 8.6    | 51.9   | 67.8      | 7.2    | 64.4   | 0.661                   | 3067          | 16771          |
| Dyna-Gro Seed      | F76FS77 BMR         | FS                        | ML                          | BMR          | 5.3            | 18.0             | 70.8         | 8.2    | 52.1   | 71.9      | 6.9    | 65.2   | 0.670                   | 2976          | 15570          |
| Blue River Hybrids | Pelican             | SxS                       | ML                          | BMR          | 5.3            | 13.9             | 61.7         | 8.8    | 51.1   | 66.2      | 6.3    | 62.6   | 0.642                   | 2847          | 15148          |
| Dyna-Gro Seed      | Fullgraze BMR       | SxS                       | M                           | BMR          | 5.3            | 22.4             | 76.4         | 8.3    | 53.4   | 69.8      | 5.9    | 60.4   | 0.617                   | 3069          | 16162          |
| Dyna-Gro Seed      | Dual Forage SCA     | GS                        | ML                          | Conv         | 4.0            | 8.0              | 49.6         | 8.2    | 46.7   | 64.7      | 5.6    | 65.7   | 0.676                   | 2870          | 11483          |
| Alta Seeds         | XF7103              | FS                        | E                           | BMR          | 3.2            | 7.9              | 57.8         | 8.7    | 42.3   | 68.5      | 5.7    | 66.3   | 0.682                   | 3044          | 9657           |
| Trial Mean         |                     |                           |                             |              | 5.9            | 18.7             | 66.6         | 8.5    | 51.4   | 66.7      | 6.4    | 63.1   | 0.647                   | 3013          | 14211          |
| LSD                |                     |                           |                             |              | 1.5            | 5.0              | 4.8          | 1.0    | 5.0    | 4.6       | 1.3    | 2.5    | 0.027                   | 192           | 3736           |
| LSD P >            |                     |                           |                             |              | 0.05           | 0.05             | 0.05         | 0.05   | 0.05   | 0.05      | 0.05   | 0.05   | 0.05                    | 0.05          | 0.05           |
| CV                 |                     |                           |                             |              | 15.7           | 16.2             | 4.3          | 7.2    | 5.9    | 4.1       | 11.9   | 2.3    | 2.5                     | 3.8           | 15.8           |
| F Test             |                     |                           |                             |              | 0.0002         | <.0001           | <.0001       | 0.0263 | <.0001 | <.0001    | 0.0250 | <.0001 | <.0001                  | <.0001        | 0.0735         |

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

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

Brown Midrib Trait: BMR = Brown Midrib, Conv = Conventional

**Table 13A. New Mexico 2017 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: 20-Jun                                    |                            |                |                   |
| Latitude: 34.60            | Harvest Date: 25-Oct                                     |                            |                |                   |
| 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            46 lb/a            carryover         |                            |                |                   |
|                            | Nitrogen            30 lb/ac            18-Apr           |                            |                |                   |
|                            | P <sub>2</sub> O <sub>5</sub> 20 lb/ac            18-Apr |                            |                |                   |
|                            | S                4.4 lb/ac            18-Apr             |                            |                |                   |
|                            | Zn               1 qt/ac            18-Apr               |                            |                |                   |
|                            | Nitrogen            45 lb/ac            at plant         |                            |                |                   |
|                            | S                8 lb/ac            at plant             |                            |                |                   |
|                            | <b>Herbicides:</b>                                       |                            |                |                   |
|                            | Glyphosate        48 oz/ac            30-Apr             |                            |                |                   |
|                            | Detonate            8 oz/ac            30-Apr            |                            |                |                   |
|                            | Sharpen            1.5 oz/ac            19-Jun           |                            |                |                   |
|                            | Atrazine            1.5 pt/ac            19-Jun          |                            |                |                   |
|                            | Glyphosate        48 oz/ac            19-Jun             |                            |                |                   |
|                            | <b>Insecticides:</b>                                     |                            |                |                   |
|                            | Sivanto            7 oz/ac            30-Aug             |                            |                |                   |
|                            | Dimilin            2 oz/ac            at plant           |                            |                |                   |
| <b>Test Design:</b>        |  |                            |                |                   |
| Replications: 3            |  |                            |                |                   |
| Plot Length: 20 ft.        |  |                            |                |                   |
| Rows per Plot: 2           |  |                            |                |                   |
| Row Spacing: 30 in.        |  |                            |                |                   |
| Seeding Rate: 50000 seed/a |  |                            |                |                   |
|                            |  | <u>Average</u>             |                |                   |
|                            |  | <u>Temp.</u>               | <u>Precip.</u> | <u>Irrigation</u> |
|                            |  | °F                         | in.            | in.               |
|                            |  | January                    | 36.5           |                   |
|                            |  | February                   | 45.8           |                   |
|                            |  | March                      | 51.7           |                   |
|                            |  | April                      | 55.5           |                   |
|                            |  | May                        | 61.4           |                   |
|                            |  | June 20-30                 | 74.1           | 0.74      1.0     |
|                            |  | July                       | 77.0           | 2.18              |
|                            |  | August                     | 71.0           | 7.87              |
|                            |  | September                  | 67.0           | 4.13              |
|                            |  | October 1-25               | 56.5           | 2.04              |
|                            |  | November                   | 50.0           |                   |
|                            |  | December                   | 38.0           |                   |
|                            |  | Seasonal Precipitation:    | 17.0 in.       |                   |
|                            |  | Total Irrigation:          | 1.0 in.        |                   |
|                            |  | Date of Last Spring Frost: | 1-May          |                   |
|                            |  | Date of First Fall Frost:  | 10-Oct         |                   |
|                            |  | Frost Free Period:         | 162 days       |                   |



**Table 13B. New Mexico 2017 Dryland Forage Sorghum Performance Test - Agricultural Science Center at Clovis**

**Results**

| Brand/Company Name | Hybrid/Variety Name | Sorghum <sup>†</sup> Type | Maturity <sup>§</sup> Group | Brown Midrib | Moisture       |                  |              | CP %   | NDFD   |        |        | TDN %  | NE <sub>i</sub> Mcal/lb | Milk/Ton lb/t | Milk/Acre lb/a |
|--------------------|---------------------|---------------------------|-----------------------------|--------------|----------------|------------------|--------------|--------|--------|--------|--------|--------|-------------------------|---------------|----------------|
|                    |                     |                           |                             |              | Dry Forage t/a | Green Forage t/a | at Harvest % |        | NDF %  | 48hr % | Ash %  |        |                         |               |                |
| Dyna-Gro Seed      | 705F                | FS                        | ME                          | Conv         | 5.8            | 18.6             | 68.6         | 8.4    | 49.5   | 62.1   | 6.1    | 61.5   | 0.629                   | 2864          | 16774          |
| NuTech Seed, LLC   | FS300               | FS                        | ML                          | Conv         | 5.6            | 17.5             | 68.1         | 8.4    | 52.2   | 61.6   | 5.5    | 62.3   | 0.638                   | 2916          | 16344          |
| NuTech Seed, LLC   | PrimeCut            | SxS                       | PS                          | Conv         | 5.6            | 23.1             | 75.8         | 7.9    | 59.3   | 62.5   | 6.7    | 57.1   | 0.580                   | 2549          | 14180          |
| Dyna-Gro Seed      | F74FS23 BMR         | FS                        | M                           | BMR          | 5.3            | 18.2             | 71.1         | 8.4    | 51.2   | 68.8   | 6.5    | 62.7   | 0.642                   | 3005          | 16017          |
| Alta Seeds         | AF7401              | FS                        | L                           | BMR          | 5.2            | 17.8             | 70.5         | 9.1    | 47.3   | 71.3   | 6.8    | 66.2   | 0.681                   | 3270          | 17160          |
| Blue River Hybrids | Blackhawk           | SxS                       | ML                          | BMR          | 5.0            | 15.9             | 68.7         | 7.9    | 55.5   | 64.4   | 5.7    | 61.8   | 0.633                   | 2906          | 14489          |
| Blue River Hybrids | Seahawk             | SxS                       | ML                          | BMR          | 4.9            | 12.6             | 61.0         | 7.6    | 54.8   | 60.0   | 5.5    | 60.5   | 0.618                   | 2775          | 13617          |
| NuTech Seed, LLC   | FSB310              | FS                        | ML                          | BMR          | 4.8            | 16.8             | 71.4         | 9.7    | 48.7   | 68.6   | 6.9    | 64.4   | 0.662                   | 3126          | 14924          |
| Alta Seeds         | XF7103              | FS                        | E                           | BMR          | 4.6            | 11.0             | 58.4         | 8.7    | 42.3   | 68.5   | 5.7    | 66.3   | 0.682                   | 3256          | 14982          |
| Dyna-Gro Seed      | F76FS77 BMR         | FS                        | ML                          | BMR          | 4.5            | 16.3             | 72.1         | 8.2    | 52.1   | 71.9   | 6.9    | 65.2   | 0.670                   | 3207          | 14568          |
| Alta Seeds         | XF7302              | FS                        | M                           | BMR          | 4.3            | 15.7             | 72.6         | 9.0    | 52.9   | 70.1   | 7.4    | 64.6   | 0.664                   | 3153          | 13501          |
| Dyna-Gro Seed      | Fullgraze BMR       | SxS                       | M                           | BMR          | 4.1            | 15.5             | 73.1         | 8.3    | 53.4   | 69.8   | 5.9    | 60.4   | 0.617                   | 2848          | 11786          |
| Blue River Hybrids | Pelican             | SxS                       | ML                          | BMR          | 4.1            | 11.9             | 64.9         | 8.8    | 51.1   | 66.2   | 6.3    | 62.6   | 0.642                   | 2978          | 12303          |
| Blue River Hybrids | Nighthawk           | SxS                       | L                           | BMR          | 4.0            | 12.5             | 68.2         | 9.2    | 52.9   | 68.5   | 7.0    | 63.4   | 0.650                   | 3049          | 12140          |
| Dyna-Gro Seed      | Dual Forage SCA     | GS                        | ML                          | Conv         | 3.9            | 10.2             | 60.3         | 8.2    | 46.7   | 64.7   | 5.6    | 65.7   | 0.676                   | 3186          | 12596          |
| Alta Seeds         | XF7303              | FS                        | M                           | BMR          | 3.8            | 13.4             | 71.2         | 8.6    | 51.9   | 67.8   | 7.2    | 64.4   | 0.661                   | 3117          | 12009          |
|                    | Trial Mean          |                           |                             |              | 4.7            | 15.4             | 68.5         | 8.5    | 51.4   | 66.7   | 6.4    | 63.1   | 0.646                   | 3013          | 14212          |
|                    | LSD                 |                           |                             |              | 1.1            | 3.5              | 3.1          | 1.0    | 5.0    | 4.6    | 1.3    | 2.5    | 0.027                   | 192           | 3736           |
|                    | LSD P >             |                           |                             |              | 0.05           | 0.05             | 0.05         | 0.05   | 0.05   | 0.05   | 0.05   | 0.05   | 0.05                    | 0.05          | 0.05           |
|                    | CV                  |                           |                             |              | 13.8           | 13.5             | 2.7          | 7.2    | 5.9    | 4.1    | 11.9   | 2.3    | 2.5                     | 3.8           | 15.8           |
|                    | F Test              |                           |                             |              | 0.0056         | <.0001           | <.0001       | 0.0263 | <.0001 | <.0001 | 0.0250 | <.0001 | <.0001                  | <.0001        | 0.0735         |

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

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

Brown Midrib Trait: BMR = Brown Midrib, Conv = Conventional

**Table 14A. New Mexico 2017 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Los Lunas**

**Investigators:** M.A. Marsalis, C. Havik, D. Price, and M. Place

**Test Description**

| <b>Location:</b>    |               | <b>Management Practices:</b>  |             |             | <b>Growing Conditions:</b> |           |            |
|---------------------|---------------|-------------------------------|-------------|-------------|----------------------------|-----------|------------|
| County/Area:        | Valencia      | Previous Crop: alfalfa/oats   |             |             | Average                    |           |            |
| Longitude:          | -106.45       | Planting Date: 23-May         |             |             | Temp.                      | Precip.   | Irrigation |
| Latitude:           | 34.46         | Harvest Date: 25-Sep          |             |             | °F                         | in.       | in.        |
| Elevation:          | 4840 ft.      |                               |             |             | January                    |           |            |
| Soil Name:          | Gila          |                               |             |             | February                   |           |            |
| Soil Texture:       | loam          | <u>Production Inputs</u>      |             |             | March                      |           |            |
| Soil Depth:         | 60 in.        |                               | <u>Rate</u> | <u>Date</u> | April                      |           |            |
|                     |               | <u>Fertilizer:</u>            |             |             | May                        | 63.3      | 0.42 8.00  |
|                     |               | Nitrogen                      | 41 lb/a     | 20-May      | June                       | 75.7      | 0.11 5.98  |
|                     |               | Nitrogen                      | 75 lb/a     | 21-Jun      | July                       | 78.8      | 0.60 8.49  |
|                     |               | Nitrogen                      | 75 lb/a     | 6-Jul       | August                     | 74.4      | 3.12 0.00  |
|                     |               | P <sub>2</sub> O <sub>5</sub> | 20 lb/a     | 20-May      | September                  | 68.0      | 1.71 5.05  |
|                     |               | K <sub>2</sub> O              | 20 lb/a     | 20-May      | October                    |           |            |
|                     |               | Fe                            | 13 lb/a     | 20-May      | November                   |           |            |
|                     |               |                               |             |             | December                   |           |            |
|                     |               | <u>Cultivation:</u>           |             |             |                            |           |            |
|                     |               |                               |             | 21-Jun      |                            |           |            |
|                     |               | <u>Herbicides:</u>            |             |             |                            |           |            |
|                     |               | None                          |             |             | Seasonal Precipitation     | 5.96 in.  |            |
|                     |               |                               |             |             | Total Irrigation           | 27.52 in. |            |
|                     |               | <u>Insecticides:</u>          |             |             |                            |           |            |
|                     |               | None                          |             |             | Date of Last Spring Frost: | 20-May    |            |
|                     |               |                               |             |             | Date of First Fall Frost:  | 10-Oct    |            |
|                     |               |                               |             |             | Frost Free Period:         | 143 days  |            |
| <b>Test Design:</b> |               |                               |             |             |                            |           |            |
| Replications:       | 3             |                               |             |             |                            |           |            |
| Plot Length:        | 20 ft.        |                               |             |             |                            |           |            |
| Rows per Plot:      | 2             |                               |             |             |                            |           |            |
| Row Spacing:        | 30 in.        |                               |             |             |                            |           |            |
| Seeding Rate:       | 80,000 seed/a |                               |             |             |                            |           |            |

**Table 14B. New Mexico 2017 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Los Lunas**

**Results**

| Brand/Company Name | Hybrid/Variety Name | Sorghum <sup>†</sup> Type | Maturity <sup>§</sup> Group | Brown Midrib | Dry Forage | 65% Adj      | Moisture   | Lodging | Plant Height |
|--------------------|---------------------|---------------------------|-----------------------------|--------------|------------|--------------|------------|---------|--------------|
|                    |                     |                           |                             |              |            | Green Forage | at Harvest |         |              |
|                    |                     |                           |                             |              | t/a        | t/a          | %          | %       | in           |
| Chromatin, Inc.    | SP 1880             | FS                        | L                           | Conv         | 13.4       | 38.2         | 70.7       | 0       | 164          |
| Chromatin, Inc.    | SS 405              | FS                        | L                           | Conv         | 11.6       | 33.2         | 66.2       | 7       | 138          |
| Chromatin, Inc.    | SP 1615             | FS                        | L                           | Conv         | 10.0       | 28.5         | 76.3       | 0       | 157          |
| Dyna-Gro Seed      | Fullgraze BMR       | SxS                       | M                           | BMR          | 9.8        | 28.0         | 68.7       | 17      | 119          |
| Chromatin, Inc.    | SP 2876             | FS                        | ME                          | BMR          | 7.7        | 22.1         | 72.4       | 5       | 110          |
| Chromatin, Inc.    | SP 2774             | FS                        | ME                          | BMR          | 7.3        | 20.9         | 74.2       | 13      | 123          |
| Alta Seeds         | AF7401              | FS                        | L                           | BMR          | 6.4        | 18.4         | 74.3       | 0       | 71           |
| Browning Seed      | Silage Master       | FS                        | ML                          | Conv         | 6.3        | 18.1         | 74.9       | 72      | 124          |
| Chromatin, Inc.    | SP 4555             | SxS                       |                             | BMR          | 5.9        | 16.9         | 71.8       | 68      | 108          |
| Chromatin, Inc.    | SP 2880             | FS                        | M                           | BMR          | 5.7        | 16.2         | 74.3       | 92      | 109          |
| Dyna-Gro Seed      | F76FS77 BMR         | FS                        | ML                          | BMR          | 5.6        | 16.0         | 65.2       | 0       | 58           |
| Dyna-Gro Seed      | 705F                | FS                        | ME                          | Conv         | 5.3        | 15.2         | 74.4       | 5       | 82           |
| Chromatin, Inc.    | SPX56216            | FS                        | ML                          | Conv         | 5.1        | 14.6         | 73.3       | 17      | 113          |
| Dyna-Gro Seed      | F74FS23 BMR         | FS                        | M                           | BMR          | 5.0        | 14.2         | 79.9       | 83      | 108          |
| Alta Seeds         | XF7302              | FS                        | M                           | BMR          | 4.9        | 13.9         | 74.9       | 0       | 63           |
| Dyna-Gro Seed      | Dual Forage SCA     | GS                        | ML                          | Conv         | 4.7        | 13.5         | 76.2       | 0       | 67           |
| Chromatin, Inc.    | NK 300              | FS                        | ME                          | Conv         | 4.6        | 13.1         | 58.2       | 45      | 72           |
| Chromatin, Inc.    | SP 3902 BD          | FS-BD                     | ML                          | BMR          | 4.5        | 13.0         | 72.3       | 0       | 77           |
| Chromatin, Inc.    | Milllex 32          | HPM                       | N/A                         | Conv         | 4.4        | 12.4         | 71.9       | 2       | 101          |
| Alta Seeds         | XF7303              | FS                        | M                           | BMR          | 3.4        | 9.8          | 72.8       | 0       | 61           |
| Alta Seeds         | XF7103              | FS                        | E                           | BMR          | 2.2        | 6.3          | 71.0       | 82      | 63           |
|                    | Trial Mean          |                           |                             |              | 6.4        | 18.2         | 72.1       | 24.1    | 99.4         |
|                    | LSD                 |                           |                             |              | 1.4        | 4.1          | 3.1        | 27.1    | 5.6          |
|                    | LSD P >             |                           |                             |              | 0.05       | 0.05         | 0.05       | 0.05    | 0.05         |
|                    | CV                  |                           |                             |              | 13.5       | 13.5         | 2.6        | 68.1    | 3.4          |
|                    | F Test              |                           |                             |              | <0.0001    | <0.0001      | <0.0001    | <0.0001 | <0.0001      |

<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, L = Late, PS = Photoperiod Sensitive

Brown Midrib Trait: BMR = Brown Midrib, Conv = Conventional

**Table 14C. New Mexico 2017 Irrigated Forage Sorghum Performance Test - Agricultural Science Center at Los Lunas**

**Results**

| Brand/Company Name | Hybrid/Variety Name | Sorghum <sup>†</sup> Type | Maturity <sup>§</sup> Group | Brown Midrib | CP     | NDF    | NDFD    |        | Ash     | TDN     | NE <sub>i</sub> | Milk/ Ton | Milk/ Acre | Milk/ Irrigation |         |
|--------------------|---------------------|---------------------------|-----------------------------|--------------|--------|--------|---------|--------|---------|---------|-----------------|-----------|------------|------------------|---------|
|                    |                     |                           |                             |              | %      | %      | 30hr %  | ADF %  | %       | %       | Mcal/lb         | lb/t      | lb/a       | lb/ac-inch       |         |
| Chromatin, Inc.    | SP 1880             | FS                        | L                           | Conv         | 6.6    | 61.2   | 47.4    | 37.0   | 5.0     | 58.2    | 0.593           | 2635      | 35200      | 1279             |         |
| Chromatin, Inc.    | SS 405              | FS                        | L                           | Conv         | 6.1    | 63.3   | 42.6    | 39.3   | 5.1     | 57.7    | 0.587           | 2564      | 29874      | 1086             |         |
| Chromatin, Inc.    | SP 1615             | FS                        | L                           | Conv         | 7.6    | 65.4   | 48.6    | 40.8   | 6.2     | 59.9    | 0.612           | 2771      | 27669      | 1005             |         |
| Dyna-Gro Seed      | Fullgraze BMR       | SxS                       | M                           | BMR          | 8.0    | 59.5   | 56.5    | 36.6   | 5.5     | 62.3    | 0.638           | 2965      | 28717      | 1044             |         |
| Chromatin, Inc.    | SP 2876             | FS                        | ME                          | BMR          | 7.3    | 58.5   | 62.4    | 36.1   | 5.2     | 64.9    | 0.666           | 3173      | 24580      | 893              |         |
| Chromatin, Inc.    | SP 2774             | FS                        | ME                          | BMR          | 8.0    | 56.3   | 59.1    | 33.6   | 5.3     | 65.0    | 0.668           | 3183      | 23304      | 847              |         |
| Alta Seeds         | AF7401              | FS                        | L                           | BMR          | 8.9    | 57.5   | 57.5    | 36.9   | 7.5     | 66.7    | 0.687           | 3333      | 21495      | 781              |         |
| Browning Seed      | Silage Master       | FS                        | ML                          | Conv         | 6.4    | 66.8   | 44.4    | 42.7   | 5.9     | 58.6    | 0.597           | 2649      | 17279      | 628              |         |
| Chromatin, Inc.    | SP 4555             | SxS                       |                             | BMR          | 7.6    | 56.0   | 47.7    | 34.5   | 5.9     | 60.7    | 0.620           | 2829      | 16755      | 609              |         |
| Chromatin, Inc.    | SP 2880             | FS                        | M                           | BMR          | 6.7    | 66.5   | 68.0    | 43.7   | 6.9     | 69.3    | 0.715           | 3533      | 20019      | 727              |         |
| Dyna-Gro Seed      | F76FS77 BMR         | FS                        | ML                          | BMR          | 8.1    | 60.9   | 43.6    | 38.9   | 6.8     | 63.4    | 0.650           | 3032      | 16880      | 613              |         |
| Dyna-Gro Seed      | 705F                | FS                        | ME                          | Conv         | 6.8    | 63.6   | 48.3    | 40.1   | 5.6     | 61.5    | 0.629           | 2873      | 15288      | 556              |         |
| Chromatin, Inc.    | SPX56216            | FS                        | ML                          | Conv         | 9.2    | 56.4   | 47.7    | 35.8   | 7.1     | 62.9    | 0.644           | 3015      | 15438      | 561              |         |
| Dyna-Gro Seed      | F74FS23 BMR         | FS                        | M                           | BMR          | 7.4    | 59.8   | 52.4    | 38.2   | 6.9     | 64.5    | 0.663           | 3144      | 15622      | 568              |         |
| Alta Seeds         | XF7302              | FS                        | M                           | BMR          | 10.3   | 56.4   | 55.1    | 36.9   | 8.4     | 67.9    | 0.700           | 3422      | 16664      | 606              |         |
| Dyna-Gro Seed      | Dual Forage SCA     | GS                        | ML                          | Conv         | 8.5    | 59.2   | 56.5    | 38.1   | 7.7     | 68.1    | 0.702           | 3436      | 16215      | 589              |         |
| Chromatin, Inc.    | NK 300              | FS                        | ME                          | Conv         | 6.8    | 58.8   | 47.1    | 35.9   | 5.1     | 61.9    | 0.633           | 2899      | 13398      | 487              |         |
| Chromatin, Inc.    | SP 3902 BD          | FS-BD                     | ML                          | BMR          | 8.2    | 51.8   | 55.2    | 31.0   | 5.8     | 67.4    | 0.694           | 3356      | 15208      | 553              |         |
| Chromatin, Inc.    | Millex 32           | HPM                       | N/A                         | Conv         | 6.8    | 63.7   | 38.0    | 38.0   | 4.6     | 55.4    | 0.561           | 2393      | 10408      | 378              |         |
| Alta Seeds         | XF7303              | FS                        | M                           | BMR          | 8.1    | 62.1   | 54.0    | 40.9   | 8.0     | 66.2    | 0.682           | 3288      | 11217      | 407              |         |
| Alta Seeds         | XF7103              | FS                        | E                           | BMR          | 7.6    | 58.9   | 54.7    | 37.2   | 6.9     | 65.4    | 0.673           | 3229      | 7176       | 260              |         |
| Trial Mean         |                     |                           |                             |              | 7.7    | 60.1   | 51.7    | 37.7   | 6.3     | 63.2    | 0.648           | 3034      | 18971      | 689              |         |
| LSD                |                     |                           |                             |              | 1.9    | NS     | 7.7     | NS     | 1.5     | 3.5     | 0.039           | 273       | 4709       | 171              |         |
| LSD P >            |                     |                           |                             |              | 0.05   | 0.05   | 0.05    | 0.05   | 0.05    | 0.05    | 0.05            | 0.05      | 0.05       | 0.05             | 0.05    |
| CV                 |                     |                           |                             |              | 14.9   | 9.3    | 9.0     | 11.1   | 14.2    | 3.3     | 3.6             | 5.4       | 15.0       | 15.0             |         |
| F Test             |                     |                           |                             |              | 0.0089 | 0.1681 | <0.0001 | 0.1412 | <0.0001 | <0.0001 | <0.0001         | <0.0001   | <0.0001    | <0.0001          | <0.0001 |

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

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

Brown Midrib Trait: BMR = Brown Midrib, Conv = Conventional

**Table 15A. New Mexico 2017 Irrigated Forage Sorghum & Sorghum Sudangrass (Single Cut) Performance Test - Agricultural Science Center at Tucumcari**

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

**Test Description**

| Location:   | Management Practices:   | Growing Conditions: |                   |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
|---|---|---------------------|-------------------|------|-------------|--|--|----------|---------|-------|--|--|------------------------|----------------|-------------------|---------|----|------|------|----------|----|------|------|-------|----|------|------|-------|----|------|------|-----|----|------|------|------|----|------|------|------|----|------|------|--------|----|------|------|-----------|----|------|------|---------|----|------|------|----------|--|--|------|----------|--|--|------|
| County/Area: Quay<br>Longitude: -103.68<br>Latitude: 35.20<br>Elevation: 4086 ft.<br>Soil Name: Canez<br>Soil Texture: Fine sandy loam<br>Soil Depth: >60 in.             | Previous Crop: Fallow<br>Planting Date: 1-Jun<br>Harvest Dates: 25-Oct<br><br><hr/> Production Inputs<br><hr/> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 20%; text-align: center;">Rate</th> <th style="width: 20%; text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td colspan="3">Fertilizer:</td> </tr> <tr> <td style="padding-left: 40px;">Nitrogen</td> <td style="text-align: center;">76 lb/a</td> <td style="text-align: center;">7-Sep</td> </tr> </tbody> </table><br>Pesticides (herbicides and insecticides):<br><br>Starane Ultra 0.4 pt/a 24-Jun<br>Detonate 8 oz/a 10-Jul |                     | Rate              | Date | Fertilizer: |  |  | Nitrogen | 76 lb/a | 7-Sep | <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 15%; text-align: center;">Average<br/>Temp.<br/>°F</th> <th style="width: 15%; text-align: center;">Precip.<br/>in.</th> <th style="width: 15%; text-align: center;">Irrigation<br/>in.</th> </tr> </thead> <tbody> <tr><td>January</td><td style="text-align: center;">38</td><td style="text-align: center;">1.02</td><td style="text-align: center;">1.00</td></tr> <tr><td>February</td><td style="text-align: center;">48</td><td style="text-align: center;">0.17</td><td style="text-align: center;">1.25</td></tr> <tr><td>March</td><td style="text-align: center;">56</td><td style="text-align: center;">2.16</td><td style="text-align: center;">4.50</td></tr> <tr><td>April</td><td style="text-align: center;">58</td><td style="text-align: center;">2.73</td><td style="text-align: center;">1.50</td></tr> <tr><td>May</td><td style="text-align: center;">64</td><td style="text-align: center;">1.82</td><td style="text-align: center;">3.00</td></tr> <tr><td>June</td><td style="text-align: center;">77</td><td style="text-align: center;">0.98</td><td style="text-align: center;">3.50</td></tr> <tr><td>July</td><td style="text-align: center;">82</td><td style="text-align: center;">1.58</td><td style="text-align: center;">1.00</td></tr> <tr><td>August</td><td style="text-align: center;">75</td><td style="text-align: center;">6.48</td><td style="text-align: center;">0.00</td></tr> <tr><td>September</td><td style="text-align: center;">70</td><td style="text-align: center;">2.65</td><td style="text-align: center;">1.00</td></tr> <tr><td>October</td><td style="text-align: center;">60</td><td style="text-align: center;">3.62</td><td style="text-align: center;">0.00</td></tr> <tr><td>November</td><td></td><td></td><td style="text-align: center;">0.00</td></tr> <tr><td>December</td><td></td><td></td><td style="text-align: center;">0.00</td></tr> </tbody> </table><br>Seasonal Precipitation 23.2 in.<br>Total Irrigation 16.8 in.<br><br>Date of Last Spring Frost: 30-Apr<br>Date of First Fall Frost: 10-Oct<br>Frost Free Period: 163 days |  | Average<br>Temp.<br>°F | Precip.<br>in. | Irrigation<br>in. | January | 38 | 1.02 | 1.00 | February | 48 | 0.17 | 1.25 | March | 56 | 2.16 | 4.50 | April | 58 | 2.73 | 1.50 | May | 64 | 1.82 | 3.00 | June | 77 | 0.98 | 3.50 | July | 82 | 1.58 | 1.00 | August | 75 | 6.48 | 0.00 | September | 70 | 2.65 | 1.00 | October | 60 | 3.62 | 0.00 | November |  |  | 0.00 | December |  |  | 0.00 |
|   | Rate  | Date                |                   |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| Fertilizer:   |   |                     |                   |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| Nitrogen  | 76 lb/a   | 7-Sep               |                   |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
|   | Average<br>Temp.<br>°F  | Precip.<br>in.      | Irrigation<br>in. |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| January   | 38  | 1.02                | 1.00              |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| February  | 48  | 0.17                | 1.25              |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| March   | 56  | 2.16                | 4.50              |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| April   | 58  | 2.73                | 1.50              |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| May   | 64  | 1.82                | 3.00              |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| June  | 77  | 0.98                | 3.50              |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| July  | 82  | 1.58                | 1.00              |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| August  | 75  | 6.48                | 0.00              |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| September   | 70  | 2.65                | 1.00              |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| October   | 60  | 3.62                | 0.00              |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| November  |   |                     | 0.00              |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| December  |   |                     | 0.00              |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |
| <b>Test Design:</b><br>Replications: 4<br>Plot Length: 20 ft.<br>Rows per Plot: 2<br>Row Spacing: 30 in.<br><br>Seeding Rate: 80,000 seeds/ac<br><br>Strip tilled seedbed |   |                     |                   |      |             |  |  |          |         |       |  |  |                        |                |                   |         |    |      |      |          |    |      |      |       |    |      |      |       |    |      |      |     |    |      |      |      |    |      |      |      |    |      |      |        |    |      |      |           |    |      |      |         |    |      |      |          |  |  |      |          |  |  |      |

The irrigation system was non-functional from 8/24 until it was repaired on 9/18, which impacted yield.

**Table 15B. New Mexico 2017 Irrigated Forage Sorghum & Sorghum Sudangrass (Single Cut) Performance Test - Agricultural Science Center at Tucumcari**

| Brand/Company Name | Hybrid/Variety Name | Sorghum <sup>†</sup> Type | Brown Midrib | Moisture   |              |            | CP     | NDF    | NDFD   |        | Ash    | TDN     | NE <sub>l</sub> | Milk/Ton | Milk/Acre |
|--------------------|---------------------|---------------------------|--------------|------------|--------------|------------|--------|--------|--------|--------|--------|---------|-----------------|----------|-----------|
|                    |                     |                           |              | Dry Forage | Green Forage | at Harvest |        |        | 48hr   | Starch |        |         |                 |          |           |
|                    |                     |                           |              | t/a        | t/a          | %          | %      | %      | %      | %      | %      | Mcal/lb | lb/t            | lb/a     |           |
| Chromatin, Inc.    | SP1615              | FS                        | Conv         | 3.4        | 9.7          | 71.6       | 8.7    | 60.0   | 68.6   | 3.5    | 6.5    | 60.6    | 0.533           | 2272     | 7713      |
| Dyna-Gro Seed      | 705F                | FS                        | Conv         | 2.7        | 7.8          | 66.8       | 6.2    | 61.2   | 64.9   | 6.2    | 5.6    | 58.5    | 0.520           | 2160     | 5928      |
| Alta Seeds         | XF7302              | FS                        | BMR          | 2.7        | 7.7          | 66.1       | 7.8    | 56.8   | 71.9   | 4.6    | 6.4    | 60.8    | 0.525           | 2249     | 6133      |
| Dyna-Gro Seed      | F74FS23 BMR         | FS                        | BMR          | 2.5        | 7.1          | 66.1       | 6.1    | 53.9   | 71.1   | 8.2    | 6.2    | 59.9    | 0.520           | 2197     | 5440      |
| Alta Seeds         | AF7401              | FS                        | BMR          | 2.4        | 6.8          | 68.0       | 7.9    | 54.5   | 72.3   | 5.3    | 6.5    | 60.2    | 0.518           | 2202     | 5215      |
| Dyna-Gro Seed      | F76FS77 BMR         | FS                        | BMR          | 2.4        | 6.9          | 70.1       | 8.6    | 57.5   | 70.7   | 4.5    | 6.5    | 61.0    | 0.535           | 2280     | 5446      |
| Alta Seeds         | XF7303              | FS                        | BMR          | 1.9        | 5.3          | 66.6       | 8.6    | 57.0   | 68.7   | 4.7    | 6.7    | 59.7    | 0.525           | 2206     | 4064      |
| Dyna-Gro Seed      | Fullgraze BMR       | SxS                       | BMR          | 1.6        | 4.4          | 69.8       | 8.3    | 59.4   | 69.3   | 3.6    | 6.4    | 60.1    | 0.525           | 2219     | 3414      |
| Alta Seeds         | XF7103              | FS                        | BMR          | 1.1        | 3.2          | 69.1       | 8.5    | 60.2   | 70.9   | 0.7    | 7.2    | 60.2    | 0.520           | 2201     | 2445      |
| Dyna-Gro Seed      | Dual Forage SCA     | GS                        | Conv         | 1.0        | 2.9          | 64.3       | 6.8    | 67.0   | 64.3   | 1.4    | 6.1    | 58.3    | 0.520           | 2141     | 2164      |
| Trial Mean         |                     |                           |              | 2.2        | 6.2          | 67.9       | 7.8    | 58.7   | 69.3   | 4.3    | 6.4    | 59.5    | 0.524           | 2213     | 4796      |
| LSD P < 0.05       |                     |                           |              | 0.9        | 2.4          | 2.4        | 1.2    | 2.4    | 2.0    | 2.1    | 0.5    | NS      | NS              | NS       | 1959      |
| CV                 |                     |                           |              | 27.2       | 27.2         | 2.5        | 10.6   | 2.8    | 2.0    | 34.4   | 5.9    | 2.3     | 2.6             | 4.2      | 28.2      |
| F Test             |                     |                           |              | 0.0001     | 0.0001       | 0.0001     | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0006 | 0.1304  | 66.2600         | 0.5073   | 0.0001    |

<sup>†</sup> Sorghum Type: FS=Forage Sorghum, BD = Brachytic Dwarf, SxS = Sorghum-Sudangrass Hybrid, GS = Grain Sorghum  
Brown Midrib Trait: BMR = Brown Midrib, Conv = Conventional

Appendix A

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

## New Mexico 2017 Grain Corn Hybrid Performance Test

| Company/Brand Name   | Hybrid/Variety Name | Relative Maturity |
|--|---------------------|-------------------|
| <b>AgVenture - Pinnacle</b><br>P.O. Box 70<br>Minden, NE<br>Leif Hansen<br>308-832-1050                        | EXP157997AM         | 99                |
|  | EXP163027YHB        | 102               |
|  | EXP167047CYXR       | 104               |
|  |                     |                   |
| <b>Dyna-Gro Seed</b><br>P.O. Box 38, 103 E. Mill Rd<br>Artesia, NM 88210<br>Shawn Carter<br>318-282-9804       | D58VC37 RIB         | 118               |
|  | D55VP77 RIB         | 115               |
|  | D58QC72 RIB         | 118               |
|  | D57VP51 RIB         | 117               |
|  | D54VC52 RIB         | 114               |
|  | D52VC63 RIB         | 112               |
|  | D49VC39 RIB         | 109               |
|  | D52SS91 RIB         | 112               |
|  | D54DC94 RIB         | 114               |
|  | D45SS65 RIB         | 105               |
|  | D41SS71 RIB         | 101               |
|  | D44VC36 RIB         | 104               |
|  | D39DC43 RIB         | 99                |
| <b>DuPont Pioneer</b><br>6519 72nd St.<br>Lubbock, TX 79424<br>Grant Groene<br>620-229-0465                    | P9608AM             | 96                |
|  | P9697AM             | 96                |
|  | P9998AM             | 99                |
|  | P0157AM             | 101               |
|  | P0365AM             | 103               |
|  | P0589AM             | 105               |
|  | P0657AM             | 106               |
|  | P0805AM             | 108               |
|  | P0801AM             | 108               |
| P1306 WHR  |                     |                   |
| <b>Mycogen Seeds / Dow AgroSciences</b><br>2076 Parkridge Dr.<br>Hurst, TX 76054<br>Adam Owens<br>817-223-9638 | MY97R57             | 97                |
|  | MY00J47             | 100               |
|  | MY01D87             | 101               |
|  | MY02J57             | 102               |
|  | MY04Y97             | 104               |
|  | MY05C67             | 105               |



## New Mexico 2017 Grain Corn Hybrid Performance Test, Con't.

| <b>Company/Brand Name</b> | <b>Hybrid/Variety Name</b> | <b>Relative Maturity</b> |
|---------------------------|----------------------------|--------------------------|
| <b>Rob See Co.</b>        | IC4570-3110                | 95                       |
| 1015 N 205th St           | IC4848-3000GT              | 98                       |
| Elkhorn, NE 68022         | RC5112-3011A               | 101                      |
| Bob Leisy                 | IC5203-3120                | 102                      |
| 970-396-7100              | IC5296-3120                | 102                      |
| <b>Syngenta</b>           | G11B63                     | 111                      |
| 443 W. County Rd          | G13N18-3111                | 113                      |
| Sutherland, NE 69165      | G14V04-3000GT              | 114                      |
| John Flynn                | G15Q98-3000GT              | 115                      |
| 308-386-8725              | G18D87-3111                | 118                      |
|                           | G95D32-3110                | 95                       |
|                           | G96V99-3120                | 96                       |
|                           | G97N86-3110                | 97                       |
|                           | G98L17-3000GT              | 98                       |
|                           | G01D24-3120                | 101                      |
|                           | G03C84-3120                | 103                      |
|                           | G05B91-3010                | 105                      |
|                           | G06Z97-3102                | 106                      |
| <b>Warner Seeds, Inc.</b> | W4409 VT2PRIB              | 109                      |
| 120 S. Lawton Ave.        | W4622 VT2PRIB              | 118                      |
| Hereford, TX 79045        |                            |                          |
| Rusty Smallwood           |                            |                          |
| 806-787-0557              |                            |                          |

## New Mexico 2017 Forage Corn Hybrid Performance Test

| <b>Company/Brand Name</b>    | <b>Hybrid/Variety Name</b> | <b>Relative Maturity</b> |
|------------------------------|----------------------------|--------------------------|
| <b>Blue River Hybrids</b>    | 62G22                      | 110                      |
| 2326 230th St.               | 66G25                      | 112                      |
| Ames, IA 50014               | 70A47                      | 114                      |
| Scott Ausborn                |                            |                          |
| 800-370-7979                 |                            |                          |
| <hr/>                        |                            |                          |
| <b>B-H Genetics</b>          | BH 8590VT2P                | 115                      |
| 5933 FM 1157                 | BH 8732VTTP                | 117                      |
| Ganado, TX 77962             | BH 8721VT2P                | 117                      |
| Travis Janak                 | BH 8907VT2P                | 118                      |
| 361-771-2755                 | BH 8636SS                  | 116                      |
|                              | X17015SS                   | 117                      |
|                              | BH 8988W/GT                | 118                      |
| <hr/>                        |                            |                          |
| <b>Dyna-Gro Seed</b>         | D58QC72 RIB                | 118                      |
| P.O. Box 38, 103 E. Mill Rd  | D58SS65 RIB                | 118                      |
| Artesia, NM 88210            | D55VP77 RIB                | 115                      |
| Shawn Carter                 | D53VC47 RIB                | 113                      |
| 318-282-9804                 | D54VC52 RIB                | 114                      |
| <hr/>                        |                            |                          |
| <b>Golden Acres Genetics</b> | G7601                      | 117                      |
| 205 Old Hewitt Rd            | G8738                      | 118                      |
| Waco, TX 76712               | G6832 STX                  | 116                      |
| Chris Sheppard               | G7848 VT2PRO               | 117                      |
| 254-761-9838                 |                            |                          |
| <hr/>                        |                            |                          |
| <b>Masters Choice</b>        | MCT6583                    | 115                      |
| 305 W. Vienna St             | MCT6733                    | 117                      |
| Anna, IL 62906               | MCT6754                    | 117                      |
| Kyle Vosburgh                |                            |                          |
| 618-697-7031                 |                            |                          |

## New Mexico 2017 Forage Corn Hybrid Performance Test, Con't.

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| <b>Company/Brand Name</b> | <b>Hybrid/Variety Name</b> | <b>Relative Maturity</b> |
|---------------------------|----------------------------|--------------------------|
| <b>Syngenta</b>           | G13N18-3111                | 113                      |
| 443 W. County Rd          | G14V04-3000GT              | 114                      |
| Sutherland, NE 69165      | G14H66-3010A               | 114                      |
| John Flynn                | G15Q98-3000GT              | 115                      |
| 308-386-8725              | G18D87-3111                | 118                      |
|                           | G01D24-3120                | 101                      |
|                           | G07H81-3010A               | 107                      |
|                           | G07B39-3111A               | 109                      |
|                           | G11B63-3010A               | 111                      |
|                           | G13N18-3111                | 113                      |

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## New Mexico 2017 Grain Sorghum Hybrid Performance Test

| Company/Brand Name   | Hybrid/Variety Name | Maturity Group* |
|--|---------------------|-----------------|
| <b>Alta Seeds / Advanta Seeds</b><br>201 John Carpenter Fwy #660<br>Irving, TX 75062<br>Zach Eder<br>979-332-5138    | ADV G1150           | ME              |
|  | AG 1203             | ME              |
|  |                     |                 |
|  |                     |                 |
| <b>Dyna-Gro Seed</b><br>P.O. Box 38, 103 E. Mill Rd<br>Artesia, NM 88210<br>Shawn Carter<br>318-282-9804             | M60GB31             | ME              |
|  | GX16833             | M               |
|  | GX17818             | ML              |
|  | M73GR55             | ML              |
|  | M74GB17             | ML              |
|  | M60GB88             | ME              |
|  | GX16535             | ME              |
|  | 742C                | ME              |
| <b>Sorghum Partners / Chromatin, Inc.</b><br>1301 E. 50th St<br>Lubbock, TX 79404<br>Rick Kochenower<br>806-746-5118 | SP 25C10            | E               |
|  | SP 31A15            | E               |
|  | SP 34A19            | ME              |
|  | SP 33S40            | ME              |
|  | SP 68M57            | M               |
|  | CHR0039             | E               |
|  | CHR0163             | E               |
|  | SP 73B12            | ML              |
|  | SP 7715             | ML              |
|  | CHR0029             | ML              |
|  | CHR2042             |                 |
| <b>NuTech Seed, LLC</b><br>2321 N. Loop Dr. Suite 120<br>Ames, IA 50010<br>Steve Sick<br>402-661-4700                | GS 636              | M               |
|  | GS 663              | M               |
|  | GS 693              | ML              |
|  | GS 725              | ML              |
|  |                     |                 |

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

**New Mexico 2017 Forage Sorghum/SxS Hybrid Performance Test  
(Single Cut)**

| <b>Company/Brand Name</b>  | <b>Hybrid/Variety Name</b> | <b>Forage Type</b> | <b>Maturity Group*</b> | <b>Brown Midrib</b> |
|--|----------------------------|--------------------|------------------------|---------------------|
| <b>Alta Seeds / Advanta Seeds</b><br>201 John Carpenter Fwy<br>#660<br>Irving, TX 75062<br>Zach Eder<br>979-332-5138 | AF7401                     | FS                 | L                      | Y                   |
|  | XF7302                     | FS                 | M                      | Y                   |
|  | XF7303                     | FS                 | M                      | Y                   |
|  | XF7103                     | FS                 | E                      | Y                   |
| <b>Blue River Hybrids</b><br>2326 230th St.<br>Ames, IA 50014<br>Scott Ausborn<br>800-370-7979                       | Blackhawk                  | SxS                | ML                     | Y                   |
|  | Nighthawk                  | SxS                | L                      | Y                   |
|  | Seahawk                    | SxS                | ML                     | Y                   |
|  | Pelicon                    | SxS                | ML                     | Y                   |
| <b>Browning Seed, Inc.</b><br>3101 S. I-27<br>Plainview, TX 79072<br>Rodney Smith<br>806-293-5271                    | Silage Master              | FS                 | ML                     | N                   |
| <b>Dyna-Gro Seed</b><br>P.O. Box 38, 103 E. Mill Rd<br>Artesia, NM 88210<br>Shawn Carter<br>318-282-9804             | Fullgraze BMR              | SxS                | M                      | Y                   |
|  | 705F                       | FS                 | ME                     | N                   |
|  | F74FS23 BMR                | FS                 | M                      | Y                   |
|  | F76FS77 BMR                | FS                 | ML                     | Y                   |
|  | Dual Forage SCA            | GS                 | ML                     | N                   |
| <b>NuTech Seed, LLC</b><br>2321 N. Loop Dr. Suite 120<br>Ames, IA 50010<br>Steve Sick<br>402-661-4700                | FS300                      | FS                 | ML                     | N                   |
|  | FSB310                     | FS                 | ML                     | Y                   |
|  | PrimeCut                   | SxS                | PS                     | N                   |

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PS=photoperiod sensitive

**New Mexico 2017 Forage Sorghum/SxS Hybrid Performance Test (Single Cut),  
Con't.**

| <b>Company/Brand Name</b>                 | <b>Hybrid/Variety Name</b> | <b>Forage Type</b> | <b>Maturity Group*</b> | <b>Brown Midrib</b> |
|---|----------------------------|--------------------|------------------------|---------------------|
| <b>Sorghum Partners / Chromatin, Inc.</b> | SPX56216                   | FS                 | ML                     | N                   |
| 1301 E. 50th St                           | NK 300                     | FS                 | ME                     | N                   |
| Lubbock, TX 79404                         | SS 405                     | FS                 | L                      | N                   |
| Rick Kochenower                           | SP 1615                    | FS                 | L                      | N                   |
| 806-746-5118                              | SP 2774                    | FS                 | ME                     | Y                   |
|   | SP 2876                    | FS                 | ME                     | Y                   |
|   | SP 3902 BD                 | FS                 | ML                     | Y                   |
|   | SP 4555                    | SxS                |                        | Y                   |
|   | SP 2880                    | FS                 | M                      | Y                   |
|   | SP 1880                    | FS                 | L                      | N                   |
|   | Millex 32                  | HPM                | N/A                    | N                   |

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## New Mexico 2017 Forage Sorghum/SxS Hybrid Performance Test (Multi Cut)

| Company/Brand Name   | Hybrid/Variety Name | Forage Type | Maturity Group* | Brown Midrib |
|--|---------------------|-------------|-----------------|--------------|
| <b>Alta Seeds / Advanta Seeds</b><br>201 John Carpenter Fwy<br>#660<br>Irving, TX 75062<br>Zach Eder<br>979-332-5138 | AS6402              | SxS         | L               | Y            |
|  | AS6401              | SxS         | L               | Y            |
|  | XS6505              | SxS         | PS              | Y            |
| <b>Blue River Hybrids</b><br>2326 230th St.<br>Ames, IA 50014<br>Scott Ausborn<br>800-370-7979                       | Blackhawk           | SxS         | ML              | Y            |
|  | Nighthawk           | SxS         | L               | Y            |
|  | Seahawk             | SxS         | ML              | Y            |
|  | Pelicon             | SxS         | ML              | Y            |
| <b>Dyna-Gro Seed</b><br>P.O. Box 38, 103 E. Mill Rd<br>Artesia, NM 88210<br>Shawn Carter<br>318-282-9804             | Danny Boy BMR       | SxS         | M               | Y            |
|  | Fullgraze BMR       | SxS         | M               | Y            |

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Appendix B  
Glossary of Terms



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

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

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

Days to 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.

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

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

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

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.