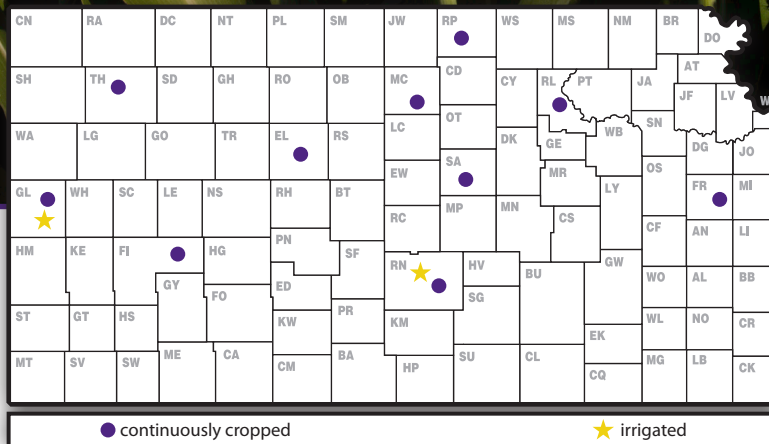
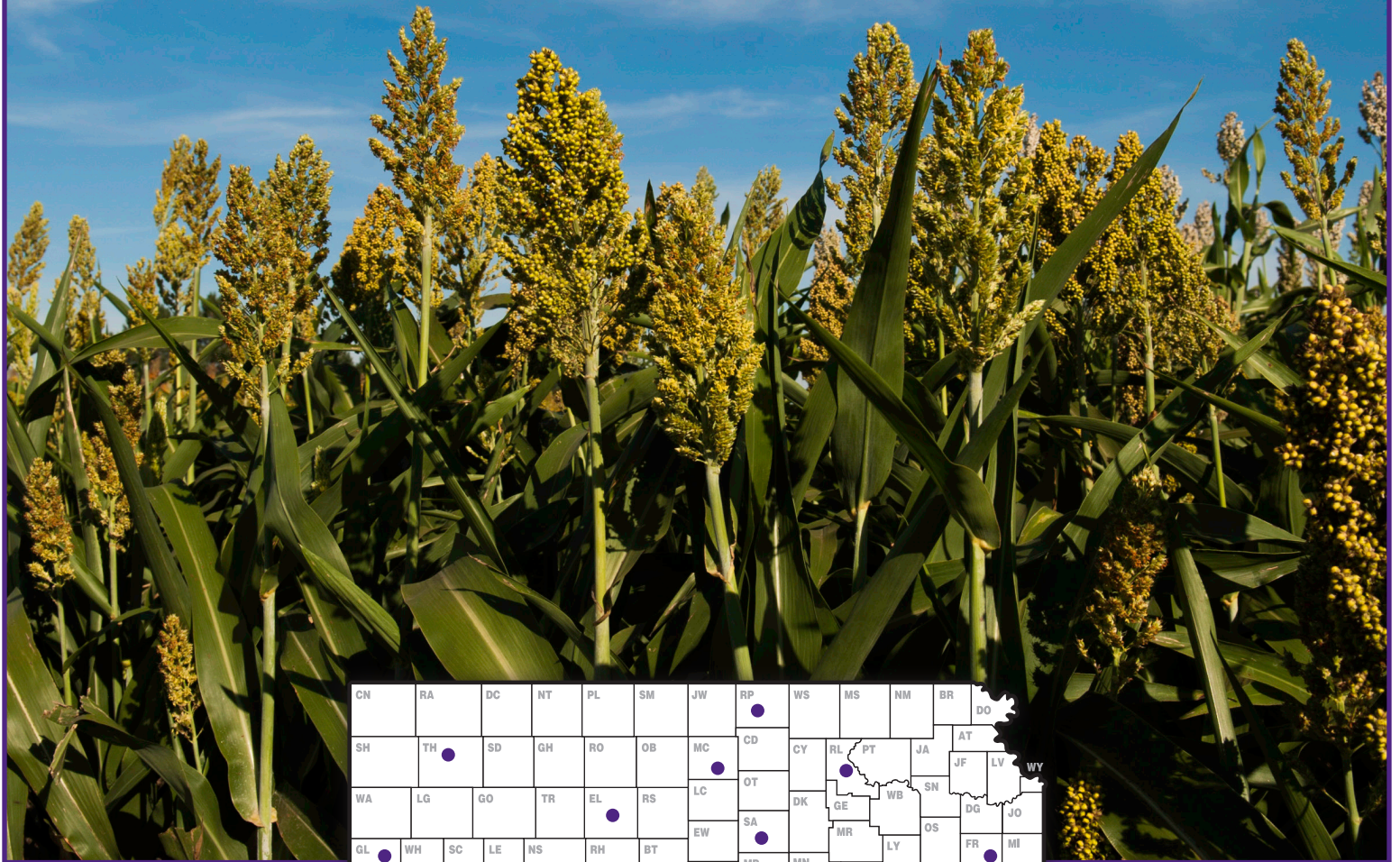


# 2020 Kansas Performance Tests with

# Grain Sorghum Hybrids



## Report of Progress 1161



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# 2020 GRAIN SORGHUM CROP REVIEW

## Statewide Growing Conditions

The 2020 sorghum season presented an overall favorable weather pattern, with more than 50% of the crop condition rated as good and excellent at harvest. Wet conditions in the spring delayed planting in specific locations, but overall planting progress was near or ahead of the 5-yr average. Mid-season warm temperatures sped up the vegetative progress at some point, compensating for the delay caused by the early-wet conditions or delayed planting.

Sorghum heading was concentrated during early-August (50% state-level) and early-September (close to 100% state-level). Vegetative-phase and pollination conditions remained wet with near-average temperatures, favoring the pollination time and early reproductive period.

Hail was a problem across the state. There were 572 reports of large hail through September 30. Of those events, 201 were reported in May (mostly outside of the sorghum season). Hail has the largest impact when occurring around flowering time or during the grain filling when the plant depends on the leaves, potentially affecting grain number and seed weight.

Regarding precipitation conditions, most divisions averaged below normal for the period of April 1 through October 31. The driest area was in the northwest region, where the divisional average was 11.51 inches or 66% of normal. The northeast division came closest to normal, with a divisional average of 24.32 inches or 89% of normal. The southeast division faced the challenge of a rapid switch from extremely wet to extremely dry conditions.

Temperature wasn't as much of a factor. The warmest readings were seen in mid-July, with the highest read of 108°F reported on July 1 at Ashland, Clark County and July 19 at Healy, Lane County.

The first autumn freezes were near average, with Colby dropping to 32°F on October 18 and Columbus reaching 30°F on October 27. Low temperatures, depending on the timing of crop development, can impact final seed weight and grain quality.

Harvest progress was ideal for much of the state and was primarily concentrated during late October.

Despite the abovementioned challenges, In October the U.S. Department of Agriculture forecasted a sorghum yield of 82 bushels per acre for the state of Kansas for the 2020 season, up one bushel per acre from the 2019 season. (Ignacio A. Ciampitti and Mary Knapp, Kansas State University Department of Agronomy)

## Diseases

The 2020 Kansas sorghum crop disease pressure was low overall. Across the state, leaf diseases were present in very low levels. There were some reports of bacterial leaf streak in northwest Kansas. As usual, sooty stripe was present across the state, with high levels in north central Kansas. Drought conditions late in the season led to increased presence of stalk rots. Overall, stalk rot conditions were lower than in previous years. (Rodrigo Borba Onofre, Kansas State University Department of Plant Pathology)

**Table 1. 2020 temperatures by crop production district**

| Division      | Extreme Tmax (°F) | Date   | Avg Tmax (°F) | Avg Tmin (°F) | Avg Tmean (°F) | Extreme Tmin (°F) | Date   |
|---------------|-------------------|--------|---------------|---------------|----------------|-------------------|--------|
| Northwest     | 108               | 19-Jul | 79.1          | 48.2          | 63.7           | -1                | 28-Oct |
| North Central | 104               | 20-Jul | 78.7          | 53.3          | 66.1           | 10                | 28-Oct |
| Northeast     | 100               | 6-Sep  | 76.8          | 54.2          | 65.5           | 10                | 10-Apr |
| West Central  | 108               | 19-Jul | 80.4          | 49.4          | 64.8           | 2                 | 28-Oct |
| Central       | 104               | 1-Jul  | 79.6          | 54.1          | 66.9           | 12                | 27-Oct |
| East Central  | 97                | 19-Jul | 77.4          | 55.7          | 66.6           | 22                | 27-Oct |
| Southwest     | 108               | 1-Jul  | 82.7          | 52.1          | 67.4           | 12                | 27-Oct |
| South Central | 105               | 1-Jul  | 80.5          | 55.4          | 68.0           | 17                | 27-Oct |
| Southeast     | 101               | 29-Aug | 78.1          | 56.0          | 67.1           | 23                | 14-Apr |

## Insects

2020 seemed like a very good year to produce sorghum throughout Kansas, both because of the conducive climate, and because of the few pest problems encountered, compared to most years.

There were a few chinch bug infestations early, but most areas had good growing conditions so that chinch bug feeding had little effect.

Very few significant sugarcane aphid or sorghum "headworm" infestations were noted. There was some concern relative to "ragworms" and corn leaf aphids during the whorl stage, or about the time for sorghum head extension, but not to the extent of requiring insecticide applications.

There were also a few reports of cattail caterpillars, but again no insecticide applications were recommended. (Jeff Whitworth, Kansas State University Department of Entomology)

## 2020 PERFORMANCE TESTS

### Objectives and Procedures

Grain Sorghum Performance Tests, conducted annually by the Kansas Agricultural Experiment Station, provide farmers, extension workers, and seed industry personnel with unbiased agronomic information on many of the grain sorghum hybrids marketed in the state. Because entry selection and location are voluntary, not all hybrids grown in the state are included in tests, and the same group of hybrids is not grown at all test locations.

A summary of growing-season weather data is given in individual test discussions. These data are from the nearest weather-reporting station and often are supplemented with information from the test site. Precipitation graphs include cumulative lines for 2020 and the 30-year normal in addition to daily rainfall amounts since fall. Temperature graphs include daily maximum and minimum temperatures compared with normal. General trends in precipitation and temperature relative to normal are readily observed in the graphs. A table with monthly totals and averages for the growing season also is included.

Explanatory information precedes data summaries for each test. Tables 3 through 20 contain results from the individual performance tests. Hybrids are listed in order of increasing days to half bloom when that information is available, so hybrids of similar maturity appear together.

As with individual test results, small differences should not be overemphasized. Relative ranking and large differences are better indicators of performance.

Three or four plots (replications) of each hybrid were grown in a randomized complete block design at each location. Each harvested plot consisted of two rows trimmed to a specific length ranging from 20 to 30 feet at the different locations.

Grain yields are reported as bushels per acre of shelled grain (56 lb/bu) adjusted to a moisture content of 12.5%. Yields are also presented as a percentage of test average to speed recognition of highest-yielding hybrids. Hybrids yielding more than 100% of the test average year after year merit consideration. Adaptation to individual farms for appropriate maturity, stalk strength, and other factors must also be considered.

Relative maturity is measured in terms of both number of days from planting to half bloom and grain moisture at harvest. Maturity can be critical when considering a sorghum hybrid for a specific cropping system.

Small differences in yield or other characteristics should not be overemphasized. Least significant differences (LSD) are shown at the bottom of each table. Unless two entries differ by at least the LSD shown, little confidence can be placed in one being superior to the other.

The coefficient of variability (CV) can be used to estimate the degree of confidence one can have in published data from replicated tests. In this testing program, a CV of less than 10% generally indicates reliable, uniform data, whereas a CV of 10 to 15% is not uncommon and usually indicates that data are acceptable for the rough performance comparisons desired from these tests. Tests with a CV greater than 15% still may be useful, especially in situations with low yields.

**Table 2. Entrants in the 2020 Kansas Grain Sorghum Performance Tests**

---

|  |   |  |   |
|--|---|--|---|
| <b>Advanta Seeds</b><br>Irving, TX<br>806-340-2031<br>advantaseeds.com                         | <b>DeKalb</b><br>Monsanto Seed<br>St. Louis, MO<br>800-335-2676<br>dekalb.com | <b>Gayland Ward Seed</b><br>Hereford, TX<br>806-258-7394<br>gaylandwardseed.com  | <b>Polansky Seed, Inc</b><br>Belleville, KS<br>785-527-2271<br>polanskyseed.com                 |
| <b>Corteva AgriSciences</b><br>Johnston, IA<br>800-233-7333<br>pioneer.com<br>*maturity checks | <b>Dyna-Gro Seed</b><br>Goddard, KS<br>800-950-2231<br>cpsagu.com             | <b>Golden Acres Genetics</b><br>Westfield, IN<br>317-896-5552<br>goldenacres.com | <b>S&amp;W Seed Company</b><br>Sorghum Partners<br>Longmont, CO<br>720-506-9191<br>swseedco.com |

**Table 3. Manhattan, Riley County Dryland Grain Sorghum Performance Test, 2018-2020**

| BRAND             | NAME         | ACRE YIELD, BUSHEL |      |      |     | YIELD AS % OF TEST AVERAGE |      |      | TW<br>(lb/bu) |
|-------------------|--------------|--------------------|------|------|-----|----------------------------|------|------|---------------|
|                   |              | 2020               | 2019 | 2018 | AVG | 2020                       | 2019 | 2018 |               |
| DEKALB            | DKS36-07     | 117                | --   | --   | --  | 93                         | --   | --   | 60            |
| DEKALB            | DKS38-16     | 133                | 120  | 118  | 124 | 106                        | 98   | 116  | 61            |
| DEKALB            | DKS44-07     | 133                | --   | --   | --  | 107                        | --   | --   | 61            |
| DEKALB            | DKS45-23     | 144                | 145  | 113  | 134 | 116                        | 118  | 111  | 61            |
| DEKALB            | DKS54-07     | 133                | 154  | --   | 143 | 106                        | 125  | --   | 62            |
| DYNA-GRO          | M60GB31      | 126                | 122  | 99   | 116 | 101                        | 99   | 97   | 60            |
| DYNA-GRO          | M62GB77      | 107                | 111  | --   | 109 | 85                         | 90   | --   | 61            |
| DYNA-GRO          | M69GR88      | 117                | 132  | 86   | 112 | 93                         | 107  | 85   | 60            |
| DYNA-GRO          | M71GR91      | 150                | 139  | --   | 144 | 120                        | 113  | --   | 62            |
| DYNA-GRO          | M72GB71      | 141                | --   | --   | --  | 113                        | --   | --   | 61            |
| DYNA-GRO          | M74GB17      | 108                | 108  | 100  | 105 | 87                         | 88   | 97   | 60            |
| GAYLAND WARD SEED | 18036        | 130                | --   | --   | --  | 104                        | --   | --   | 61            |
| GAYLAND WARD SEED | 18057        | 118                | --   | --   | --  | 94                         | --   | --   | 59            |
| GAYLAND WARD SEED | 18072        | 146                | --   | --   | --  | 117                        | --   | --   | 60            |
| GAYLAND WARD SEED | 18096        | 132                | --   | --   | --  | 106                        | --   | --   | 59            |
| GAYLAND WARD SEED | 18567        | 132                | --   | --   | --  | 106                        | --   | --   | 60            |
| GAYLAND WARD SEED | 19001        | 132                | --   | --   | --  | 106                        | --   | --   | 61            |
| GAYLAND WARD SEED | 19014        | 118                | --   | --   | --  | 95                         | --   | --   | 58            |
| GAYLAND WARD SEED | 19016        | 113                | --   | --   | --  | 90                         | --   | --   | 58            |
| GAYLAND WARD SEED | 19017        | 106                | --   | --   | --  | 85                         | --   | --   | 58            |
| GAYLAND WARD SEED | 20132        | 125                | --   | --   | --  | 100                        | --   | --   | 59            |
| GAYLAND WARD SEED | 20136        | 140                | --   | --   | --  | 112                        | --   | --   | 61            |
| GAYLAND WARD SEED | 20138        | 117                | --   | --   | --  | 93                         | --   | --   | 59            |
| GAYLAND WARD SEED | 20150        | 119                | --   | --   | --  | 95                         | --   | --   | 59            |
| GAYLAND WARD SEED | 20313        | 124                | --   | --   | --  | 99                         | --   | --   | 60            |
| GOLDEN ACRES      | 2840B        | 128                | 131  | 109  | 123 | 103                        | 107  | 107  | 61            |
| GOLDEN ACRES      | 3180B        | 144                | --   | --   | --  | 115                        | --   | --   | 59            |
| GOLDEN ACRES      | 4880R        | 131                | 140  | --   | 135 | 105                        | 114  | --   | 62            |
| MATURITY CHECK    | DEKALB EARLY | 89                 | 84   | 101  | 91  | 71                         | 68   | 98   | 58            |
| MATURITY CHECK    | DEKALB LATE  | 130                | 145  | 124  | 133 | 104                        | 118  | 122  | 61            |
| MATURITY CHECK    | DEKALB MED   | 119                | 135  | 123  | 126 | 95                         | 110  | 120  | 61            |
| MATURITY CHECK    | EARLY        | 151                | 134  | 118  | 134 | 121                        | 109  | 115  | 60            |
| MATURITY CHECK    | LATE         | 68                 | 106  | 90   | 88  | 55                         | 86   | 88   | 59            |
| MATURITY CHECK    | MED          | 125                | 138  | 100  | 121 | 100                        | 112  | 98   | 60            |
|                   | Average      | 125                | 123  | 102  | 117 | 100                        | 100  | 100  | 60            |
|                   | CV (%)       | 11                 | 8    | 11   | --  | 11                         | 8    | 11   | 1             |
|                   | LSD (0.05)   | 19                 | 13   | 16   | --  | 15                         | 15   | 15   | 1             |

\*Yields must differ by more than the LSD value to be considered statistically different.

Cooperator: Agronomy North Farm

Soil Series: Reading silt loam

Fertilizer: 180-0-0 lb/a N, P, K

No-till after soybean

Herbicide: 2 qt/a glyphosate; 1.5 pt/a Dual II Magnum; 2 oz/a Atrazine; 2 oz/a 2,4-D

Target population: 45,000 plants

Planted: 5/20/20

Harvested: 10/19/20

| Monthly rainfall (in) | April | May | June | July | August | Total       |
|-----------------------|-------|-----|------|------|--------|-------------|
| 2020                  | 1.9   | 5.6 | 3.5  | 6.6  | 1.8    | <b>19.4</b> |
| Long-term average     | 3.2   | 5.1 | 5.7  | 4.4  | 4.1    | <b>22.5</b> |
| Departure             |       |     |      |      |        | <b>-3.1</b> |



**TABLE 4. Belleville, Republic County Dryland Grain Sorghum Performance Test, 2018-2020**

| BRAND             | NAME         | YIELD AS            |      |      |      |                   |      |      |              |            |         |           |
|-------------------|--------------|---------------------|------|------|------|-------------------|------|------|--------------|------------|---------|-----------|
|                   |              | ACRE YIELD, BUSHELS |      |      |      | % OF TEST AVERAGE |      |      | DAYS (bloom) | TW (lb/bu) | HT (in) | LODGE (%) |
|                   |              | 2020                | 2019 | 2018 | AVG. | 2020              | 2019 | 2018 |              |            |         |           |
| DEKALB            | DKS36-07     | 111                 | --   | --   | --   | 110               | --   | --   | 62           | 58         | 59      | 0         |
| DEKALB            | DKS38-16     | 70                  | --   | 128  | 99   | 69                | --   | 116  | 64           | 59         | 63      | 45        |
| DEKALB            | DKS44-07     | 131                 | --   | --   | --   | 129               | --   | --   | 66           | 59         | 57      | 4         |
| DEKALB            | DKS45-23     | 125                 | --   | 143  | 134  | 123               | --   | 129  | 65           | 60         | 61      | 4         |
| DYNA-GRO          | GX17912      | 106                 | --   | --   | --   | 104               | --   | --   | 59           | 59         | 53      | 0         |
| DYNA-GRO          | GX18919      | 103                 | --   | --   | --   | 102               | --   | --   | 57           | 60         | 55      | 0         |
| DYNA-GRO          | GX19981      | 96                  | --   | --   | --   | 95                | --   | --   | 66           | 59         | 57      | 78        |
| DYNA-GRO          | GX20564      | 102                 | --   | --   | --   | 101               | --   | --   | 63           | 58         | 65      | 17        |
| DYNA-GRO          | M54GR24      | 82                  | --   | --   | --   | 80                | --   | --   | 57           | 59         | 49      | 2         |
| DYNA-GRO          | M57GB19      | 119                 | --   | --   | --   | 118               | --   | --   | 59           | 59         | 59      | 0         |
| DYNA-GRO          | M57GC29      | 73                  | --   | --   | --   | 72                | --   | --   | 59           | 58         | 43      | 2         |
| DYNA-GRO          | M59GB57      | 84                  | --   | --   | --   | 83                | --   | --   | 57           | 59         | 46      | 0         |
| DYNA-GRO          | M59GB94      | 99                  | --   | --   | --   | 98                | --   | --   | 58           | 59         | 58      | 3         |
| DYNA-GRO          | M60GB31      | 61                  | --   | --   | --   | 60                | --   | --   | 65           | 59         | 55      | 25        |
| DYNA-GRO          | M60GB88      | 128                 | --   | 93   | 111  | 126               | --   | 88   | 63           | 59         | 52      | 0         |
| DYNA-GRO          | M62GB77      | 120                 | --   | --   | --   | 118               | --   | --   | 61           | 60         | 59      | 0         |
| DYNA-GRO          | M69GB38      | 87                  | --   | 129  | 108  | 86                | --   | 117  | 67           | 58         | 61      | 32        |
| DYNA-GRO          | M69GR88      | 108                 | --   | 105  | 106  | 106               | --   | 96   | 65           | 59         | 53      | 2         |
| DYNA-GRO          | M71GR91      | 122                 | --   | --   | --   | 121               | --   | --   | 66           | 59         | 62      | 15        |
| DYNA-GRO          | M72GB71      | 85                  | --   | --   | --   | 84                | --   | --   | 71           | 52         | 58      | 53        |
| DYNA-GRO          | M74GB17      | 105                 | --   | 101  | 103  | 103               | --   | 92   | 66           | 58         | 57      | 13        |
| GAYLAND WARD SEED | 18036        | 111                 | --   | --   | --   | 110               | --   | --   | 66           | 59         | 63      | 7         |
| GAYLAND WARD SEED | 18057        | 113                 | --   | --   | --   | 111               | --   | --   | 63           | 57         | 55      | 0         |
| GAYLAND WARD SEED | 18072        | 117                 | --   | --   | --   | 115               | --   | --   | 66           | 58         | 60      | 0         |
| GAYLAND WARD SEED | 18096        | 95                  | --   | --   | --   | 94                | --   | --   | 69           | 56         | 69      | 0         |
| GAYLAND WARD SEED | 18567        | 116                 | --   | --   | --   | 115               | --   | --   | 69           | 58         | 56      | 5         |
| GAYLAND WARD SEED | 19001        | 123                 | --   | --   | --   | 121               | --   | --   | 65           | 59         | 57      | 4         |
| GAYLAND WARD SEED | 19014        | 126                 | --   | --   | --   | 124               | --   | --   | 65           | 57         | 55      | 3         |
| GAYLAND WARD SEED | 19015        | 127                 | --   | --   | --   | 126               | --   | --   | 62           | 58         | 55      | 0         |
| GAYLAND WARD SEED | 19016        | 103                 | --   | --   | --   | 101               | --   | --   | 66           | 58         | 58      | 2         |
| GAYLAND WARD SEED | 19017        | 63                  | --   | --   | --   | 63                | --   | --   | 70           | 53         | 61      | 2         |
| GAYLAND WARD SEED | 20313        | 98                  | --   | --   | --   | 97                | --   | --   | 64           | 57         | 52      | 10        |
| GOLDEN ACRES      | 2840B        | 117                 | --   | 108  | 112  | 115               | --   | 98   | 60           | 59         | 58      | 2         |
| GOLDEN ACRES      | 3180B        | 151                 | --   | --   | --   | 149               | --   | --   | 65           | 58         | 58      | 10        |
| GOLDEN ACRES      | 4880R        | 32                  | --   | --   | --   | 32                | --   | --   | 68           | 60         | 59      | 53        |
| MATURITY CHECK    | DEKALB EARLY | 115                 | --   | 106  | 110  | 113               | --   | 96   | 59           | 58         | 48      | 0         |
| MATURITY CHECK    | DEKALB LATE  | 117                 | --   | 120  | 119  | 116               | --   | 109  | 68           | 58         | 61      | 27        |
| MATURITY CHECK    | DEKALB MED   | 118                 | --   | 124  | 121  | 116               | --   | 113  | 62           | 60         | 62      | 2         |
| MATURITY CHECK    | EARLY        | 100                 | --   | 118  | 109  | 99                | --   | 107  | 59           | 59         | 49      | 0         |
| MATURITY CHECK    | LATE         | 119                 | --   | 93   | 106  | 117               | --   | 85   | 64           | 58         | 53      | 12        |
| MATURITY CHECK    | MED          | 125                 | --   | 118  | 121  | 123               | --   | 107  | 62           | 59         | 56      | 0         |
| SORGHUM PARTNERS  | SP 43M80     | 103                 | --   | --   | --   | 102               | --   | --   | 60           | 59         | 57      | 0         |
| SORGHUM PARTNERS  | SP 68M57     | 66                  | --   | --   | --   | 65                | --   | --   | 64           | 59         | 53      | 35        |
| SORGHUM PARTNERS  | SP 74M21     | 92                  | --   | --   | --   | 91                | --   | --   | 69           | 58         | 56      | 29        |
| SORGHUM PARTNERS  | SP 7715      | 116                 | --   | --   | --   | 114               | --   | --   | 67           | 59         | 55      | 14        |
|                   | Average      | 104                 | --   | 109  | 107  | 100               | --   | 100  | 64           | 58         | 57      | 11        |
|                   | CV (%)       | 12                  | --   | 8    | --   | 12                | --   | 7    | 2            | --         | 3       | --        |
|                   | LSD (0.05)   | 24                  | --   | 15   | --   | 12                | --   | 12   | 2            | --         | 3       | --        |

\*Yields must differ by more than the LSD value to be considered statistically different.

Cooperator: North Central Experiment Field      Soil Series: Crete silt loam  
 Fertilizer: 100-0-0 lb/a N, P, K      No-till after soybean  
 Herbicide: 1.5 qt/a Makaze; 8 oz/a Rifle; 1.5 pt/a Salvo  
 Target population: 50,000 plants  
 Planted: 6/12/20      Harvested: 10/16/20

| Monthly rainfall (in) | April | May | June | July | August | Total       |
|-----------------------|-------|-----|------|------|--------|-------------|
| 2020                  | 0.5   | 2.5 | 2.5  | 6.3  | 0.4    | <b>9.2</b>  |
| Long-term average     | 2.9   | 4.4 | 4.4  | 4.0  | 3.7    | <b>12.1</b> |
| Departure             |       |     |      |      |        | <b>-2.9</b> |

**Table 5. Beloit, Mitchell County Dryland Grain Sorghum Performance Test, 2018-2020**

| BRAND             | NAME         | ACRE YIELD, BUSHELS |      |      |      | YIELD AS % OF TEST AVERAGE |      |      | TW<br>(lb/bu) |
|-------------------|--------------|---------------------|------|------|------|----------------------------|------|------|---------------|
|                   |              | 2020                | 2019 | 2018 | AVG. | 2020                       | 2019 | 2018 |               |
| ADVANTA           | ADV G1142IG  | 113                 | --   | --   | --   | 90                         | --   | --   | 60            |
| ADVANTA           | ADV G2106    | 126                 | 88   | 114  | 109  | 101                        | 89   | 110  | 60            |
| ADVANTA           | ADV G2168IG  | 128                 | --   | --   | --   | 103                        | --   | --   | 59            |
| ADVANTA           | ADV G2177IG  | 117                 | --   | --   | --   | 94                         | --   | --   | 59            |
| ADVANTA           | ADV G2193IG  | 123                 | --   | --   | --   | 98                         | --   | --   | 59            |
| ADVANTA           | ADV G2275    | 134                 | 90   | 94   | 106  | 107                        | 90   | 91   | 60            |
| ADVANTA           | ADV G3189    | 126                 | --   | --   | --   | 101                        | --   | --   | 58            |
| ADVANTA           | ADV XG224    | 122                 | --   | --   | --   | 97                         | --   | --   | 59            |
| ADVANTA           | ADV XG256    | 131                 | --   | --   | --   | 105                        | --   | --   | 60            |
| ADVANTA           | ADV XG267    | 105                 | --   | --   | --   | 84                         | --   | --   | 58            |
| ADVANTA           | ADV XG397    | 116                 | 84   | --   | 100  | 93                         | 84   | --   | 60            |
| ADVANTA           | AG1203       | 119                 | 96   | --   | 107  | 95                         | 96   | --   | 58            |
| DEKALB            | DKS36-07     | 133                 | --   | --   | --   | 107                        | --   | --   | 59            |
| DEKALB            | DKS38-16     | 139                 | 109  | 115  | 121  | 111                        | 110  | 112  | 61            |
| DEKALB            | DKS44-07     | 140                 | --   | --   | --   | 112                        | --   | --   | 61            |
| DEKALB            | DKS45-23     | 140                 | 104  | 115  | 120  | 112                        | 104  | 112  | 60            |
| DEKALB            | DKS53-53     | 124                 | 91   | 110  | 108  | 99                         | 92   | 106  | 60            |
| DEKALB            | DKS54-07     | 111                 | 119  | --   | 115  | 89                         | 120  | --   | 60            |
| DYNA-GRO          | GX19981      | 132                 | 105  | --   | 118  | 105                        | 106  | --   | 61            |
| DYNA-GRO          | GX20564      | 141                 | --   | --   | --   | 112                        | --   | --   | 59            |
| DYNA-GRO          | M59GB94      | 131                 | --   | --   | --   | 105                        | --   | --   | 59            |
| DYNA-GRO          | M60GB31      | 120                 | 103  | 96   | 106  | 96                         | 103  | 93   | 59            |
| DYNA-GRO          | M60GB88      | 111                 | --   | --   | --   | 89                         | --   | --   | 57            |
| DYNA-GRO          | M62GB77      | 110                 | 104  | --   | 107  | 88                         | 105  | --   | 59            |
| DYNA-GRO          | M69GB38      | 113                 | 108  | 106  | 109  | 90                         | 108  | 103  | 60            |
| DYNA-GRO          | M69GR88      | 107                 | --   | --   | --   | 86                         | --   | --   | 57            |
| GAYLAND WARD SEED | 18036        | 139                 | --   | --   | --   | 111                        | --   | --   | 58            |
| GAYLAND WARD SEED | 18057        | 118                 | --   | --   | --   | 95                         | --   | --   | 59            |
| GAYLAND WARD SEED | 18072        | 135                 | --   | --   | --   | 108                        | --   | --   | 59            |
| GAYLAND WARD SEED | 18096        | 120                 | --   | --   | --   | 96                         | --   | --   | 57            |
| GAYLAND WARD SEED | 18567        | 113                 | --   | --   | --   | 90                         | --   | --   | 59            |
| GAYLAND WARD SEED | 19001        | 141                 | --   | --   | --   | 113                        | --   | --   | 60            |
| GAYLAND WARD SEED | 19014        | 109                 | --   | --   | --   | 87                         | --   | --   | 59            |
| GAYLAND WARD SEED | 19016        | 130                 | --   | --   | --   | 104                        | --   | --   | 59            |
| GAYLAND WARD SEED | 19017        | 122                 | --   | --   | --   | 98                         | --   | --   | 59            |
| GAYLAND WARD SEED | 20313        | 148                 | --   | --   | --   | 118                        | --   | --   | 59            |
| MATURITY CHECK    | DEKALB EARLY | 98                  | 93   | 89   | 93   | 78                         | 93   | 86   | 57            |
| MATURITY CHECK    | DEKALB LATE  | 131                 | 111  | 112  | 118  | 105                        | 112  | 108  | 60            |
| MATURITY CHECK    | DEKALB MED   | 153                 | 111  | 105  | 123  | 122                        | 111  | 102  | 60            |
| MATURITY CHECK    | EARLY        | 142                 | 119  | 109  | 123  | 113                        | 119  | 106  | 59            |
| MATURITY CHECK    | LATE         | 103                 | 90   | 90   | 94   | 83                         | 90   | 87   | 57            |
| MATURITY CHECK    | MED          | 125                 | 114  | 102  | 114  | 100                        | 114  | 99   | 59            |
| POLANSKY          | 5519         | 119                 | 103  | --   | 111  | 95                         | 103  | --   | 59            |
| POLANSKY          | 5629         | 161                 | 102  | --   | 131  | 129                        | 102  | --   | 61            |
| POLANSKY          | 5719         | 126                 | 114  | --   | 120  | 101                        | 114  | --   | 59            |
| POLANSKY          | EXP-D8       | 119                 | --   | --   | --   | 95                         | --   | --   | 59            |
| POLANSKY          | EXP-D9       | 147                 | --   | --   | --   | 117                        | --   | --   | 59            |





**Table 6. NORTHEAST Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2020**

| BRAND/NAME               | RLD | RPD | MTD | AVG. | BRAND/NAME                     | RLD | RPD | MTD | AVG. |
|--------------------------|-----|-----|-----|------|--------------------------------|-----|-----|-----|------|
| <b>ADVANTA</b>           |     |     |     |      | <b>GAYLAND WARD SEED</b>       |     |     |     |      |
| ADV G1142IG              | --  | --  | 90  | --   | 18567                          | 106 | 115 | 118 | 113  |
| ADV G2106                | --  | --  | 101 | --   | 19001                          | 106 | 121 | 108 | 112  |
| ADV G2168IG              | --  | --  | 103 | --   | 19014                          | 95  | 124 | 95  | 105  |
| ADV G2193IG              | --  | --  | 98  | --   | 19015                          | --  | 126 | --  | --   |
| ADV G2275                | --  | --  | 107 | --   | 19016                          | 90  | 101 | 96  | 96   |
| ADV G3189                | --  | --  | 101 | --   | 19017                          | 85  | 63  | 117 | 88   |
| ADV XG224                | --  | --  | 97  | --   | 20132                          | 100 | --  | --  | --   |
| ADV XG256                | --  | --  | 105 | --   | 20136                          | 112 | --  | --  | --   |
| ADV XG267                | --  | --  | 84  | --   | 20138                          | 93  | --  | --  | --   |
| ADV XG397                | --  | --  | 93  | --   | 20150                          | 95  | --  | --  | --   |
| ADVG2177IG               | --  | --  | 94  | --   | 20313                          | 99  | 97  | 90  | 95   |
| AG1203                   | --  | --  | 95  | --   | <b>GOLDEN ACRES</b>            |     |     |     |      |
| <b>DEKALB</b>            |     |     |     |      | 2840B                          | 103 | 115 | --  | --   |
| DKS36-07                 | 93  | 110 | 107 | 103  | 3180B                          | 115 | 149 | --  | --   |
| DKS38-16                 | 106 | 69  | 111 | 96   | 4880R                          | 105 | 32  | --  | --   |
| DKS44-07                 | 107 | 129 | 112 | 116  | <b>POLANSKY</b>                |     |     |     |      |
| DKS45-23                 | 116 | 123 | 112 | 117  | 5519                           | --  | --  | 95  | --   |
| DKS53-53                 | --  | --  | 99  | --   | 5629                           | --  | --  | 111 | --   |
| DKS54-07                 | 106 | --  | 89  | --   | 5719                           | --  | --  | 129 | --   |
| <b>DYNA-GRO</b>          |     |     |     |      | EXP-D8                         | --  | --  | 95  | --   |
| GX17912                  | --  | 104 | --  | --   | EXP-D9                         | --  | --  | 101 | --   |
| GX18919                  | --  | 102 | --  | --   | <b>SORGHUM PARTNERS</b>        |     |     |     |      |
| GX19981                  | --  | 95  | 105 | --   | SP 43M80                       | --  | 102 | --  | --   |
| GX20564                  | --  | 101 | 112 | --   | SP 68M57                       | --  | 65  | --  | --   |
| M54GR24                  | --  | 80  | --  | --   | SP 74M21                       | --  | 91  | --  | --   |
| M57GB19                  | --  | 118 | --  | --   | SP7715                         | --  | 114 | --  | --   |
| M57GC29                  | --  | 72  | --  | --   | <b>MATURITY CHECK</b>          |     |     |     |      |
| M59GB57                  | --  | 83  | --  | --   | DEKALB EARLY                   | 71  | 113 | 78  | 88   |
| M59GB94                  | --  | 98  | 105 | --   | DEKALB LATE                    | 104 | 116 | 105 | 108  |
| M60GB31                  | 101 | 60  | 96  | 86   | DEKALB MED                     | 95  | 116 | 122 | 111  |
| M60GB88                  | --  | 126 | 89  | --   | EARLY                          | 121 | 117 | 113 | 117  |
| M62GB77                  | 85  | 118 | 88  | 97   | LATE                           | 55  | 99  | 83  | 79   |
| M69GB38                  | --  | 86  | 90  | --   | MED                            | 100 | 123 | 100 | 108  |
| M69GR88                  | 93  | 106 | 86  | 95   | <b>AVERAGES (bu/a)</b>         |     |     |     |      |
| M71GR91                  | 120 | 121 | --  | --   | AVERAGES (bu/a)                | 125 | 100 | 125 | 117  |
| M72GB71                  | 113 | 84  | --  | --   | CV (%)                         | 11  | 12  | 10  | --   |
| M74GB17                  | 87  | 103 | --  | --   | LSD (0.05)                     | 15  | 12  | 15  | --   |
| <b>GAYLAND WARD SEED</b> |     |     |     |      | RLD = Riley Co., Manhattan     |     |     |     |      |
| 18036                    | 104 | 110 | 113 | 109  | RPD = Republic Co., Belleville |     |     |     |      |
| 18057                    | 94  | 111 | 87  | 98   | MTD = Mitchell Co., Beloit     |     |     |     |      |
| 18072                    | 117 | 115 | 104 | 112  |                                |     |     |     |      |
| 18096                    | 106 | 94  | 98  | 99   |                                |     |     |     |      |

**Table 7. Ottawa, Franklin County Dryland Grain Sorghum Performance Test, 2018-2020**

| BRAND          | NAME         | ACRE YIELD, BUSHELS |      |      |     | YIELD AS % OF TEST AVERAGE |      |      | TW<br>(lb/bu) |
|----------------|--------------|---------------------|------|------|-----|----------------------------|------|------|---------------|
|                |              | 2020                | 2019 | 2018 | AVG | 2020                       | 2019 | 2018 |               |
| DYNA-GRO       | GX19981      | 147                 | --   | --   | --  | 107                        | --   | --   | 59            |
| DYNA-GRO       | GX20564      | 150                 | --   | --   | --  | 109                        | --   | --   | 61            |
| DYNA-GRO       | M59GB57      | 100                 | --   | --   | --  | 73                         | --   | --   | 61            |
| DYNA-GRO       | M60GB31      | 149                 | --   | --   | --  | 108                        | --   | --   | 60            |
| DYNA-GRO       | M60GB88      | 127                 | --   | --   | --  | 93                         | --   | --   | 61            |
| DYNA-GRO       | M62GB77      | 126                 | 138  | --   | 132 | 92                         | 107  | --   | 62            |
| DYNA-GRO       | M69GB38      | 164                 | 135  | 143  | 147 | 119                        | 104  | 123  | 60            |
| DYNA-GRO       | M69GR88      | 123                 | 128  | 109  | 120 | 89                         | 99   | 93   | 61            |
| DYNA-GRO       | M71GR91      | 148                 | 123  | --   | 135 | 108                        | 95   | --   | 63            |
| DYNA-GRO       | M72GB71      | 143                 | --   | --   | --  | 104                        | --   | --   | 62            |
| DYNA-GRO       | M74GB17      | 140                 | 106  | 117  | 121 | 102                        | 82   | 101  | 59            |
| MATURITY CHECK | DEKALB EARLY | 115                 | 128  | 93   | 112 | 84                         | 99   | 80   | 62            |
| MATURITY CHECK | DEKALB LATE  | 137                 | 146  | 133  | 139 | 100                        | 110  | 117  | 60            |
| MATURITY CHECK | DEKALB MED   | 144                 | 143  | 136  | 141 | 105                        | 113  | 114  | 63            |
| MATURITY CHECK | EARLY        | 152                 | 118  | 124  | 131 | 110                        | 91   | 106  | 59            |
| MATURITY CHECK | LATE         | 125                 | 146  | 96   | 122 | 91                         | 107  | 100  | 61            |
| MATURITY CHECK | MED          | 148                 | 139  | 116  | 134 | 107                        | 113  | 82   | 61            |
|                | Average      | 138                 | 130  | 117  | 128 | 100                        | 100  | 100  | 60            |
|                | CV (%)       | 6                   | 11   | 11   | --  | 6                          | 11   | 11   | 3             |
|                | LSD (0.05)   | 12                  | 19   | 18   | --  | 9                          | 15   | 15   | 3             |

\*Yields must differ by more than the LSD value to be considered statistically different.

Cooperator: East Central Experiment Field Soil Series: Woodson silt loam

Fertilizer: 140-48-31-10 lb/a N, P, K, S Strip-till after soybean

Herbicide: 2.1 qt/a Cinch ATZ; 0.5 pt/a 2,4-D pre-emerge; 20 oz/a Armazon Pro; 3 oz/a Callisto post

Target population: 45,000 plants

Planted: 6/3/20

Harvested: 10/1/20

| Monthly rainfall (in) | April | May | June | July | August | Total       |
|-----------------------|-------|-----|------|------|--------|-------------|
| 2020                  | 1.8   | 4.2 | 2.9  | 4.2  | 1.2    | <b>14.3</b> |
| Long-term average     | 3.8   | 5.4 | 5.6  | 4.1  | 4.2    | <b>23.0</b> |
| Departure             |       |     |      |      |        | <b>-8.7</b> |

**Table 8. Assaria, Saline County Dryland Grain Sorghum Performance Test, 2018-2020**

| BRAND             | NAME         | ACRE YIELD, BUSHELS |      |      |     | YIELD AS % OF TEST AVERAGE |      |      | TW<br>(lb/bu) |
|-------------------|--------------|---------------------|------|------|-----|----------------------------|------|------|---------------|
|                   |              | 2020                | 2019 | 2018 | AVG | 2020                       | 2019 | 2018 |               |
| DEKALB            | DKS29-95     | 138                 | --   | --   | --  | 101                        | --   | --   | 58            |
| DEKALB            | DKS33-07     | 133                 | --   | 61   | 97  | 97                         | --   | 84   | 57            |
| DEKALB            | DKS36-07     | 140                 | --   | --   | --  | 102                        | --   | --   | 56            |
| DEKALB            | DKS38-16     | 147                 | --   | 109  | 128 | 107                        | --   | 150  | 56            |
| DEKALB            | DKS44-07     | 152                 | --   | --   | --  | 111                        | --   | --   | 56            |
| DEKALB            | DKS45-23     | 138                 | --   | 69   | 103 | 100                        | --   | --   | 56            |
| DEKALB            | DKS53-53     | 137                 | --   | 64   | 101 | 100                        | --   | --   | 54            |
| DEKALB            | DKS54-07     | 140                 | --   | --   | --  | 102                        | --   | --   | 56            |
| GAYLAND WARD SEED | 18036        | 126                 | --   | --   | --  | 92                         | --   | --   | 53            |
| GAYLAND WARD SEED | 18057        | 110                 | --   | --   | --  | 80                         | --   | --   | 54            |
| GAYLAND WARD SEED | 18072        | 98                  | --   | --   | --  | 72                         | --   | --   | 54            |
| GAYLAND WARD SEED | 18096        | 123                 | --   | --   | --  | 90                         | --   | --   | 54            |
| GAYLAND WARD SEED | 18567        | 131                 | --   | --   | --  | 95                         | --   | --   | 55            |
| GAYLAND WARD SEED | 19001        | 146                 | --   | --   | --  | 106                        | --   | --   | 55            |
| GAYLAND WARD SEED | 19015        | 127                 | --   | --   | --  | 92                         | --   | --   | 57            |
| GAYLAND WARD SEED | 19016        | 142                 | --   | --   | --  | 103                        | --   | --   | 56            |
| GAYLAND WARD SEED | 19017        | 136                 | --   | --   | --  | 99                         | --   | --   | 55            |
| GAYLAND WARD SEED | 20313        | 166                 | --   | --   | --  | 121                        | --   | --   | 58            |
| MATURITY CHECK    | DEKALB EARLY | 153                 | --   | 88   | 121 | 112                        | --   | 122  | 53            |
| MATURITY CHECK    | DEKALB LATE  | 139                 | --   | 66   | 102 | 101                        | --   | 91   | 55            |
| MATURITY CHECK    | DEKALB MED   | 127                 | --   | 60   | 93  | 92                         | --   | 83   | 53            |
| MATURITY CHECK    | EARLY        | 157                 | --   | 83   | 120 | 114                        | --   | 115  | 56            |
| MATURITY CHECK    | LATE         | 127                 | --   | 63   | 95  | 92                         | --   | 87   | 54            |
| MATURITY CHECK    | MED          | 159                 | --   | 91   | 125 | 116                        | --   | 127  | 56            |
|                   | Average      | 137                 | --   | 72   | 105 | 100                        | --   | 100  | 55            |
|                   | CV (%)       | 8                   | --   | 9    | --  | 8                          | --   | 9    | 3             |
|                   | LSD (0.05)   | 16                  | --   | 9    | --  | 11                         | --   | 9    | 2             |

\*Yields must differ by more than the LSD value to be considered statistically different.

Cooperator: Private farm

Soil Series: Reading silt loam

Fertilizer: 130-0-0 lb/a N, P, K

Conventional-till after sorghum

Herbicide: 75 oz/a Lumax

Target population: 45,000 plants

Planted: 6/13/20

Harvested: 10/19/20

| Monthly rainfall (in) | April | May | June | July | August | Total       |
|-----------------------|-------|-----|------|------|--------|-------------|
| 2020                  | 2.0   | 5.1 | 1.3  | 8.7  | 1.3    | <b>18.4</b> |
| Long-term average     | 2.9   | 4.7 | 4.3  | 3.8  | 3.7    | <b>19.4</b> |
| Departure             |       |     |      |      |        | <b>-1.0</b> |

**Table 9. Hutchinson, Reno County Dryland Grain Sorghum Performance Test, 2018-2020**

| BRAND             | NAME         | ACRE YIELD, BUSHELS |      |      |     | % OF TEST AVERAGE |      |      | TW      | LODGE* |
|-------------------|--------------|---------------------|------|------|-----|-------------------|------|------|---------|--------|
|                   |              | 2020                | 2019 | 2018 | AVG | 2020              | 2019 | 2018 | (lb/bu) | (%)    |
| ADVANTA           | ADV G1142IG  | 61                  | --   | --   | --  | 94                | --   | --   | 57      | 45     |
| ADVANTA           | ADV G2106    | 67                  | 133  | 129  | 110 | 103               | 93   | 104  | 55      | 0      |
| ADVANTA           | ADV G2168IG  | 67                  | --   | --   | --  | 103               | --   | --   | 56      | 0      |
| ADVANTA           | ADV G2177IG  | 72                  | --   | --   | --  | 111               | --   | --   | 55      | 0      |
| ADVANTA           | ADV G2193IG  | 65                  | --   | --   | --  | 100               | --   | --   | 53      | 0      |
| ADVANTA           | ADV G2275    | 91                  | 124  | 121  | 112 | 139               | 87   | 97   | 58      | 0      |
| ADVANTA           | ADV XG256    | 65                  | --   | --   | --  | 100               | --   | --   | 57      | 0      |
| ADVANTA           | ADV XG267    | 61                  | --   | --   | --  | 93                | --   | --   | 54      | 0      |
| ADVANTA           | ADV XG397    | 67                  | --   | --   | --  | 103               | --   | --   | 58      | 0      |
| ADVANTA           | ADV XG9127   | 85                  | 107  | --   | 96  | 130               | 75   | --   | 54      | 0      |
| ADVANTA           | AG1203       | 69                  | 155  | --   | 112 | 105               | 109  | --   | 56      | 50     |
| DEKALB            | DKS29-95     | 59                  | --   | --   | --  | 90                | --   | --   | 53      | 25     |
| DEKALB            | DKS33-07     | 59                  | 131  | 118  | 103 | 91                | 92   | 95   | 55      | 0      |
| DEKALB            | DKS36-07     | 42                  | --   | --   | --  | 65                | --   | --   | 51      | 70     |
| DEKALB            | DKS38-16     | 68                  | 143  | 133  | 115 | 104               | 100  | 107  | 55      | 53     |
| DEKALB            | DKS44-07     | 84                  | --   | --   | --  | 128               | --   | --   | 58      | 0      |
| DEKALB            | DKS45-23     | 89                  | 145  | 157  | 130 | 136               | 102  | 126  | 56      | 0      |
| DEKALB            | DKS53-53     | 77                  | 178  | 123  | 126 | 117               | 124  | 99   | 56      | 0      |
| DEKALB            | DKS54-07     | 65                  | 154  | --   | 110 | 100               | 107  | --   | 55      | 0      |
| DYNA-GRO          | GX19981      | 99                  | 174  | --   | 137 | 152               | 121  | --   | 60      | 0      |
| DYNA-GRO          | GX20564      | 55                  | --   | --   | --  | 84                | --   | --   | 54      | 70     |
| DYNA-GRO          | M60GB31      | 59                  | 166  | 135  | 120 | 90                | 116  | 109  | 58      | 0      |
| DYNA-GRO          | M60GB88      | 52                  | 126  | 122  | 100 | 80                | 88   | 98   | 56      | 0      |
| DYNA-GRO          | M62GB77      | 43                  | 155  | --   | 99  | 66                | 108  | --   | 55      | 55     |
| DYNA-GRO          | M69GB38      | 67                  | 142  | 149  | 119 | 103               | 100  | 120  | 57      | 0      |
| DYNA-GRO          | M69GR88      | 61                  | 152  | 130  | 114 | 94                | 107  | 104  | 54      | 40     |
| DYNA-GRO          | M71GR91      | 73                  | 148  | --   | 110 | 112               | 104  | --   | 57      | 0      |
| DYNA-GRO          | M72GB71      | 61                  | --   | --   | --  | 94                | --   | --   | 56      | 80     |
| DYNA-GRO          | M74GB17      | 56                  | 128  | 105  | 96  | 86                | 86   | 85   | 55      | 0      |
| GAYLAND WARD SEED | 18036        | 72                  | --   | --   | --  | 110               | --   | --   | 57      | 0      |
| GAYLAND WARD SEED | 18057        | 68                  | --   | --   | --  | 105               | --   | --   | 55      | 0      |
| GAYLAND WARD SEED | 18072        | 65                  | --   | --   | --  | 100               | --   | --   | 51      | 0      |
| GAYLAND WARD SEED | 18096        | 28                  | --   | --   | --  | 43                | --   | --   | 39      | 0      |
| GAYLAND WARD SEED | 18567        | 73                  | --   | --   | --  | 112               | --   | --   | 56      | 0      |
| GAYLAND WARD SEED | 19001        | 72                  | --   | --   | --  | 111               | --   | --   | 56      | 0      |
| GAYLAND WARD SEED | 19016        | 59                  | --   | --   | --  | 91                | --   | --   | 55      | 0      |
| GAYLAND WARD SEED | 19017        | 66                  | --   | --   | --  | 101               | --   | --   | 54      | 90     |
| GAYLAND WARD SEED | 20313        | 58                  | --   | --   | --  | 88                | --   | --   | 52      | 0      |
| MATURITY CHECK    | DEKALB EARLY | 54                  | 106  | 123  | 94  | 82                | 74   | 99   | 54      | 30     |
| MATURITY CHECK    | DEKALB LATE  | 85                  | 165  | 140  | 130 | 130               | 115  | 113  | 56      | 30     |
| MATURITY CHECK    | DEKALB MED   | 58                  | 144  | 143  | 115 | 89                | 101  | 115  | 56      | 0      |
| MATURITY CHECK    | EARLY        | 84                  | 163  | 100  | 116 | 128               | 114  | 80   | 56      | 45     |
| MATURITY CHECK    | LATE         | 52                  | 125  | 127  | 101 | 80                | 87   | 102  | 56      | 65     |

**Table 9 continued. Hutchinson, Reno County Dryland Grain Sorghum Performance Test, 2018- 2020**

| BRAND            | NAME       | ACRE YIELD, BUSHELS |      |      |     | % OF TEST AVERAGE |      |      | TW      | LODGE* |
|------------------|------------|---------------------|------|------|-----|-------------------|------|------|---------|--------|
|                  |            | 2020                | 2019 | 2018 | AVG | 2020              | 2019 | 2018 | (lb/bu) | (%)    |
| MATURITY CHECK   | MED        | 81                  | 159  | 141  | 127 | 124               | 111  | 113  | 56      | 50     |
| POLANSKY         | 5519       | 39                  | 138  | --   | 89  | 60                | 96   | --   | 57      | 90     |
| POLANSKY         | 5629       | 68                  | 146  | --   | 107 | 104               | 102  | --   | 51      | 0      |
| POLANSKY         | 5719       | 94                  | 150  | --   | 122 | 145               | 105  | --   | 59      | 0      |
| POLANSKY         | EXP-D8     | 69                  | --   | --   | --  | 106               | --   | --   | 53      | 60     |
| POLANSKY         | EXP-D9     | 73                  | --   | --   | --  | 111               | --   | --   | 55      | 25     |
| SORGHUM PARTNERS | SP 68M57   | 70                  | 141  | 112  | 108 | 107               | 99   | 90   | 57      | 0      |
| SORGHUM PARTNERS | SP 74M21   | 57                  | 148  | --   | 103 | 88                | 104  | --   | 52      | 0      |
| SORGHUM PARTNERS | SP7715     | 62                  | 156  | 119  | 112 | 95                | 109  | 95   | 56      | 0      |
|                  | Average    | 65                  | 143  | 124  | 111 | 100               | 100  | 100  | 55      | 20     |
|                  | CV (%)     | 11                  | 8    | 10   | --  | 11                | 8    | 10   | 2       | --     |
|                  | LSD (0.05) | 12                  | 16   | 18   | --  | 18                | 11   | 14   | 3       | 30     |

\*Yields must differ by more than the LSD value to be considered statistically different.

Cooperator: Private farm

Soil Series: Ulysses silt loam

Fertilizer: 130-0-0 lb/a N, P, K

No-till after wheat

Herbicide: 82 oz/a Lumax

Target population: 45,000 plants

Planted: 6/12/20

Harvested: 11/6/20

\*Visual observation of percentage of lodged stalks at harvest.

| Monthly rainfall (in) | April | May | June | July | August | Total       |
|-----------------------|-------|-----|------|------|--------|-------------|
| 2020                  | 1.7   | 3.9 | 3.7  | 4.1  | 0.8    | <b>14.1</b> |
| Long-term average     | 2.7   | 4.4 | 4.9  | 3.8  | 3.1    | <b>18.9</b> |
| Departure             |       |     |      |      |        | <b>-4.8</b> |

**Table 10. CENTRAL Kansas Sorghum Hybrid Yield Summary (% of test avg.), 2020**

| <b>BRAND/NAME</b> | <b>SAD</b> | <b>RND</b> | <b>AVG.</b> | <b>BRAND/NAME</b>        | <b>SAD</b> | <b>RND</b> | <b>AVG.</b> |
|-------------------|------------|------------|-------------|--------------------------|------------|------------|-------------|
| <b>ADVANTA</b>    |            |            |             | <b>GAYLAND WARD SEED</b> |            |            |             |
| ADV G1142IG       | --         | 94         | --          | 18036                    | 92         | 110        | 101         |
| ADV G2106         | --         | 103        | --          | 18057                    | 80         | 105        | 93          |
| ADV G2168IG       | --         | 103        | --          | 18072                    | 72         | 100        | 86          |
| ADV G2193IG       | --         | 100        | --          | 18096                    | 90         | 43         | 67          |
| ADV G2275         | --         | 139        | --          | 18567                    | 95         | 112        | 103         |
| ADV XG256         | --         | 100        | --          | 19001                    | 106        | 111        | 109         |
| ADV XG267         | --         | 93         | --          | 19015                    | 92         | --         | --          |
| ADV XG397         | --         | 103        | --          | 19016                    | 103        | 91         | 97          |
| ADV XG9127        | --         | 130        | --          | 19017                    | 99         | 101        | 100         |
| ADVG2177IG        | --         | 111        | --          | 20313                    | 121        | 88         | 104         |
| AG1203            | --         | 105        | --          | <b>POLANSKY</b>          |            |            |             |
| <b>DEKALB</b>     |            |            |             | 5519                     | --         | 60         | --          |
| DKS29-95          | 101        | 90         | 96          | 5629                     | --         | 104        | --          |
| DKS33-07          | 97         | 91         | 94          | 5719                     | --         | 145        | --          |
| DKS36-07          | 102        | 65         | 84          | EXP-D8                   | --         | 106        | --          |
| DKS38-16          | 107        | 104        | 106         | EXP-D9                   | --         | 111        | --          |
| DKS44-07          | 111        | 128        | 120         | <b>SORGHUM PARTNERS</b>  |            |            |             |
| DKS45-23          | 100        | 136        | 118         | SP 68M57                 | --         | 107        | --          |
| DKS53-53          | 100        | 117        | 109         | SP 74M21                 | --         | 88         | --          |
| DKS54-07          | 102        | 100        | 101         | SP7715                   | --         | 95         | --          |
| <b>DYNA-GRO</b>   |            |            |             | <b>MATURITY CHECK</b>    |            |            |             |
| GX19981           | --         | 152        | --          | DEKALB EARLY             | 112        | 82         | 97          |
| GX20564           | --         | 84         | --          | DEKALB LATE              | 101        | 130        | 116         |
| M60GB31           | --         | 90         | --          | DEKALB MED               | 92         | 89         | 91          |
| M60GB88           | --         | 80         | --          | EARLY                    | 92         | 128        | 110         |
| M62GB77           | --         | 66         | --          | LATE                     | 114        | 80         | 97          |
| M69GB38           | --         | 103        | --          | MED                      | 116        | 124        | 120         |
| M69GR88           | --         | 94         | --          | <b>AVERAGES (bu/a)</b>   |            |            |             |
| M71GR91           | --         | 112        | --          |                          | 100        | 100        | 100         |
| M72GB71           | --         | 94         | --          | CV (%)                   | 8          | 11         | --          |
| M74GB17           | --         | 86         | --          | LSD (0.05)               | 11         | 18         | --          |

SAD = Saline Co., Assaria

RND = Reno Co., Hutchinson

**Table 11. Hays, Ellis County Dryland Grain Sorghum Performance Test, 2018-2020**

| BRAND             | NAME       | ACRE YIELD, BUSHELS |      |      |     | YIELD AS % OF TEST AVERAGE |      |      | TW<br>(lb/bu) |
|-------------------|------------|---------------------|------|------|-----|----------------------------|------|------|---------------|
|                   |            | 2020                | 2019 | 2018 | AVG | 2020                       | 2019 | 2018 |               |
| ADVANTA           | ADV G2106  | 115                 | 71   | --   | 93  | 95                         | 68   | --   | 53            |
| ADVANTA           | ADV G2275  | 142                 | 98   | --   | 120 | 117                        | 94   | --   | 55            |
| ADVANTA           | ADV G3189  | 115                 | --   | --   | --  | 95                         | --   | --   | 55            |
| ADVANTA           | ADV XG224  | 127                 | --   | --   | --  | 105                        | --   | --   | 56            |
| ADVANTA           | ADV XG256  | 109                 | 108  | --   | 108 | 90                         | 103  | --   | 55            |
| ADVANTA           | ADV XG267  | 82                  | --   | --   | --  | 68                         | --   | --   | 51            |
| ADVANTA           | ADV XG397  | 114                 | --   | --   | --  | 95                         | --   | --   | 55            |
| ADVANTA           | ADV XG9127 | 124                 | 93   | --   | 108 | 102                        | 88   | --   | 52            |
| ADVANTA           | AG1203     | 139                 | 122  | --   | 130 | 115                        | 116  | --   | 54            |
| DEKALB            | DKS29-95   | 122                 | --   | --   | --  | 101                        | --   | --   | 53            |
| DEKALB            | DKS33-07   | 133                 | 116  | --   | 124 | 110                        | 111  | --   | 55            |
| DEKALB            | DKS36-07   | 135                 | --   | --   | --  | 112                        | --   | --   | 53            |
| DEKALB            | DKS38-16   | 150                 | 137  | --   | 144 | 124                        | 131  | --   | 57            |
| DEKALB            | DKS44-07   | 126                 | --   | --   | --  | 104                        | --   | --   | 55            |
| DEKALB            | DKS45-23   | 147                 | 122  | --   | 135 | 122                        | 117  | --   | 54            |
| DYNA-GRO          | GX17912    | 136                 | 120  | --   | 128 | 112                        | 115  | --   | 51            |
| DYNA-GRO          | GX18919    | 105                 | 84   | --   | 94  | 87                         | 80   | --   | 52            |
| DYNA-GRO          | GX19981    | 153                 | 119  | --   | 136 | 127                        | 114  | --   | 57            |
| DYNA-GRO          | GX20564    | 125                 | --   | --   | --  | 104                        | --   | --   | 53            |
| DYNA-GRO          | M54GR24    | 117                 | 88   | --   | 103 | 97                         | 84   | --   | 53            |
| DYNA-GRO          | M57GB19    | 132                 | 121  | --   | 127 | 109                        | 116  | --   | 53            |
| DYNA-GRO          | M57GC29    | 108                 | 92   | --   | 100 | 89                         | 88   | --   | 54            |
| DYNA-GRO          | M59GB57    | 111                 | 92   | --   | 102 | 92                         | 88   | --   | 51            |
| DYNA-GRO          | M59GB94    | 137                 | 101  | --   | 119 | 113                        | 96   | --   | 52            |
| DYNA-GRO          | M60GB31    | 131                 | 115  | --   | 123 | 109                        | 110  | --   | 55            |
| DYNA-GRO          | M60GB88    | 109                 | 102  | --   | 105 | 90                         | 97   | --   | 53            |
| DYNA-GRO          | M62GB77    | 102                 | 114  | --   | 108 | 84                         | 109  | --   | 52            |
| DYNA-GRO          | M69GB38    | 134                 | 118  | --   | 126 | 111                        | 113  | --   | 55            |
| DYNA-GRO          | M69GR88    | 109                 | --   | --   | --  | 90                         | --   | --   | 52            |
| GAYLAND WARD SEED | 18036      | 122                 | --   | --   | --  | 101                        | --   | --   | 53            |
| GAYLAND WARD SEED | 18057      | 115                 | 74   | --   | 95  | 95                         | 71   | --   | 55            |
| GAYLAND WARD SEED | 18072      | 108                 | --   | --   | --  | 90                         | --   | --   | 51            |
| GAYLAND WARD SEED | 18096      | 115                 | --   | --   | --  | 95                         | --   | --   | 51            |
| GAYLAND WARD SEED | 18567      | 120                 | --   | --   | --  | 99                         | --   | --   | 53            |
| GAYLAND WARD SEED | 19001      | 142                 | --   | --   | --  | 118                        | --   | --   | 55            |
| GAYLAND WARD SEED | 19015      | 111                 | --   | --   | --  | 92                         | --   | --   | 51            |
| GAYLAND WARD SEED | 19016      | 106                 | --   | --   | --  | 88                         | --   | --   | 52            |
| GAYLAND WARD SEED | 19017      | 111                 | --   | --   | --  | 91                         | --   | --   | 53            |
| GAYLAND WARD SEED | 20313      | 133                 | --   | --   | --  | 110                        | --   | --   | 57            |
| GOLDEN ACRES      | 1510C      | 138                 | --   | --   | --  | 114                        | --   | --   | 56            |
| GOLDEN ACRES      | 2620C      | 139                 | 119  | --   | 129 | 115                        | 114  | --   | 51            |
| GOLDEN ACRES      | 2730B      | 137                 | 120  | --   | 129 | 114                        | 115  | --   | 55            |
| GOLDEN ACRES      | 2840B      | 154                 | 96   | --   | 125 | 127                        | 91   | --   | 55            |



**Table 11 continued. Hays, Ellis County Dryland Grain Sorghum Performance Test, 2018-2020**

| BRAND            | NAME         | ACRE YIELD, BUSHEL |      |      |     | YIELD AS % OF TEST AVERAGE |      |      | TW<br>(lb/bu) |
|------------------|--------------|--------------------|------|------|-----|----------------------------|------|------|---------------|
|                  |              | 2020               | 2019 | 2018 | AVG | 2020                       | 2019 | 2018 |               |
| MATURITY CHECK   | DEKALB EARLY | 114                | 104  | --   | 109 | 94                         | 99   | --   | 51            |
| MATURITY CHECK   | DEKALB LATE  | 119                | 137  | --   | 128 | 98                         | 131  | --   | 55            |
| MATURITY CHECK   | DEKALB MED   | 136                | 121  | --   | 128 | 112                        | 116  | --   | 56            |
| MATURITY CHECK   | EARLY        | 143                | 135  | --   | 139 | 118                        | 129  | --   | 55            |
| MATURITY CHECK   | LATE         | 130                | 105  | --   | 117 | 107                        | 100  | --   | 55            |
| MATURITY CHECK   | MED          | 134                | 101  | --   | 118 | 111                        | 96   | --   | 52            |
| POLANSKY         | 5519         | 123                | 118  | --   | 121 | 102                        | 113  | --   | 53            |
| POLANSKY         | 5629         | 150                | 126  | --   | 138 | 124                        | 121  | --   | 53            |
| POLANSKY         | 5719         | 147                | 126  | --   | 137 | 122                        | 121  | --   | 56            |
| POLANSKY         | EXP-D8       | 95                 | --   | --   | --  | 78                         | --   | --   | 54            |
| POLANSKY         | EXP-D9       | 105                | --   | --   | --  | 87                         | --   | --   | 56            |
| SORGHUM PARTNERS | SP 31A15     | 122                | --   | --   | --  | 101                        | --   | --   | 50            |
| SORGHUM PARTNERS | SP 43M80     | 128                | --   | --   | --  | 106                        | --   | --   | 54            |
| SORGHUM PARTNERS | SP 68M57     | 136                | --   | --   | --  | 113                        | --   | --   | 53            |
|                  | Average      | 121                | 105  | --   | 113 | 100                        | 100  | --   | 54            |
|                  | CV (%)       | 7                  | 9    | --   | --  | 7                          | 9    | --   | 3             |
|                  | LSD (0.05)   | 17                 | 13   | --   | --  | 14                         | 13   | --   | 2             |

\*Yields must differ by more than the LSD value to be considered statistically different.

Cooperator: Kansas State University Agricultural Research Center- Hays

Fertilizer: 130-0-0 lb/a N, P, K

Soil Series: Harney clay loam

Herbicide: 75 oz/a Lumax

No-till after wheat

Target population: 45,000 plants

Planted: 6/4/20

Harvested: 10/19/20

| Monthly rainfall (in) | April | May | June | July | August | Total       |
|-----------------------|-------|-----|------|------|--------|-------------|
| 2020                  | 1.9   | 5.6 | 3.5  | 6.6  | 2.4    | <b>15.5</b> |
| Long-term average     | 3.2   | 5.1 | 5.7  | 4.4  | 3.0    | <b>15.2</b> |
| Departure             |       |     |      |      |        | <b>0.3</b>  |

**Table 12. Colby, Thomas County Dryland Grain Sorghum Performance Test, 2018-2020**

| BRAND             | NAME         | ACRE YIELD, BUSHELS |      |      |     | YIELD AS % OF TEST AVERAGE |      |      | TW<br>(lb/bu) | BLOOM<br>(days) |
|-------------------|--------------|---------------------|------|------|-----|----------------------------|------|------|---------------|-----------------|
|                   |              | 2020                | 2019 | 2018 | AVG | 2020                       | 2019 | 2018 |               |                 |
| ADVANTA           | ADV G1142IG  | 128                 | --   | --   | --  | 104                        | --   | --   | 56            | 76              |
| ADVANTA           | ADV G1329    | 100                 | --   | --   | --  | 82                         | --   | --   | 58            | 66              |
| ADVANTA           | ADV G2106    | 149                 | --   | --   | --  | 121                        | --   | --   | 58            | 68              |
| ADVANTA           | ADV G2168IG  | 152                 | --   | --   | --  | 123                        | --   | --   | 57            | 69              |
| ADVANTA           | ADV G2177IG  | 136                 | --   | --   | --  | 110                        | --   | --   | 57            | 76              |
| ADVANTA           | ADV G2193IG  | 127                 | --   | --   | --  | 104                        | --   | --   | 56            | 74              |
| ADVANTA           | ADV G2275    | 129                 | 59   | 105  | 98  | 105                        | 95   | 92   | 59            | 73              |
| ADVANTA           | ADV XG256    | 117                 | 58   | --   | 87  | 95                         | 93   | --   | 59            | 76              |
| ADVANTA           | ADV XG267    | 105                 | --   | --   | --  | 85                         | --   | --   | 55            | 75              |
| ADVANTA           | ADV XG397    | 108                 | --   | --   | --  | 88                         | --   | --   | 58            | 70              |
| ADVANTA           | ADV XG9127   | 146                 | 56   | --   | 101 | 118                        | 89   | --   | 58            | 76              |
| ADVANTA           | AG1203       | 124                 | 28   | --   | 76  | 101                        | 45   | --   | 56            | 68              |
| DEKALB            | DKS29-95     | 117                 | --   | --   | --  | 95                         | --   | --   | 58            | 65              |
| DEKALB            | DKS33-07     | 145                 | --   | --   | --  | 118                        | --   | --   | 58            | 70              |
| DEKALB            | DKS36-07     | 142                 | --   | --   | --  | 115                        | --   | --   | 59            | 67              |
| DEKALB            | DKS38-16     | 127                 | 75   | 121  | 108 | 103                        | 120  | 106  | 61            | 68              |
| DEKALB            | DKS44-07     | 129                 | --   | --   | --  | 105                        | --   | --   | 60            | 72              |
| DYNA-GRO          | GX17912      | 120                 | 61   | 72   | 84  | 98                         | 98   | 63   | 56            | 67              |
| DYNA-GRO          | GX18919      | 94                  | 60   | 115  | 90  | 76                         | 96   | 101  | 41            | 65              |
| DYNA-GRO          | GX19981      | 123                 | --   | --   | --  | 100                        | --   | --   | 60            | 66              |
| DYNA-GRO          | GX20564      | 102                 | --   | --   | --  | 83                         | --   | --   | 57            | 73              |
| DYNA-GRO          | M54GR24      | 104                 | 63   | --   | 84  | 85                         | 101  | --   | 58            | 66              |
| DYNA-GRO          | M57GB19      | 125                 | 70   | --   | 98  | 102                        | 112  | --   | 57            | 66              |
| DYNA-GRO          | M57GC29      | 112                 | 58   | --   | 85  | 91                         | 92   | --   | 57            | 68              |
| DYNA-GRO          | M59GB57      | 80                  | 71   | 117  | 89  | 65                         | 113  | 103  | 54            | 65              |
| DYNA-GRO          | M59GB94      | 129                 | 69   | --   | 99  | 105                        | 111  | --   | 58            | 67              |
| DYNA-GRO          | M60GB31      | 141                 | --   | --   | --  | 114                        | --   | --   | 58            | 71              |
| DYNA-GRO          | M60GB88      | 127                 | --   | --   | --  | 103                        | --   | --   | 58            | 68              |
| DYNA-GRO          | M62GB77      | 107                 | --   | --   | --  | 87                         | --   | --   | 59            | 68              |
| DYNA-GRO          | M69GB38      | 113                 | --   | --   | --  | 92                         | --   | --   | 58            | 76              |
| DYNA-GRO          | M69GR88      | 118                 | --   | --   | --  | 96                         | --   | --   | 57            | 69              |
| GAYLAND WARD SEED | 18036        | 135                 | --   | --   | --  | 110                        | --   | --   | 56            | 71              |
| GAYLAND WARD SEED | 18057        | 140                 | --   | --   | --  | 114                        | --   | --   | 55            | 70              |
| GAYLAND WARD SEED | 18567        | 125                 | --   | --   | --  | 101                        | --   | --   | 56            | 68              |
| GAYLAND WARD SEED | 19014        | 131                 | --   | --   | --  | 106                        | --   | --   | 56            | 71              |
| GOLDEN ACRES      | 1510C        | 128                 | --   | --   | --  | 104                        | --   | --   | 57            | 67              |
| GOLDEN ACRES      | 2620C        | 98                  | 65   | 160  | 108 | 80                         | 103  | 141  | 59            | 68              |
| GOLDEN ACRES      | 2730B        | 137                 | 66   | 167  | 123 | 111                        | 105  | 147  | 57            | 66              |
| GOLDEN ACRES      | 2840B        | 124                 | 68   | 108  | 100 | 101                        | 109  | 95   | 61            | 66              |
| GOLDEN ACRES      | 3180B        | 137                 | --   | --   | --  | 112                        | --   | --   | 56            | 71              |
| MATURITY CHECK    | DEKALB EARLY | 109                 | 72   | 119  | 100 | 89                         | 115  | 104  | 58            | 65              |
| MATURITY CHECK    | DEKALB LATE  | 139                 | 62   | 100  | 100 | 113                        | 100  | 88   | 43            | 76              |
| MATURITY CHECK    | DEKALB MED   | 147                 | 97   | 169  | 138 | 119                        | 155  | 149  | 61            | 68              |
| MATURITY CHECK    | EARLY        | 146                 | 76   | 144  | 122 | 119                        | 121  | 127  | 59            | 65              |
| MATURITY CHECK    | LATE         | 114                 | 73   | 140  | 109 | 92                         | 117  | 123  | 59            | 76              |

**Table 12 continued. Colby, Thomas County Dryland Grain Sorghum Performance Test, 2018-2020**

| BRAND            | NAME     | ACRE YIELD, BUSHELS |      |      |     | YIELD AS % OF TEST AVERAGE |      |      | TW      | BLOOM  |
|------------------|----------|---------------------|------|------|-----|----------------------------|------|------|---------|--------|
|                  |          | 2020                | 2019 | 2018 | AVG | 2020                       | 2019 | 2018 | (lb/bu) | (days) |
| MATURITY CHECK   | MED      | 105                 | 61   | 123  | 96  | 85                         | 98   | 108  | 59      | 65     |
| POLANSKY         | 5519     | 130                 | --   | --   | --  | 106                        | --   | --   | 58      | 67     |
| POLANSKY         | 5629     | 143                 | --   | --   | --  | 117                        | --   | --   | 56      | 68     |
| POLANSKY         | 5719     | 151                 | --   | --   | --  | 123                        | --   | --   | 59      | 76     |
| POLANSKY         | EXP-D8   | 127                 | --   | --   | --  | 104                        | --   | --   | 57      | 74     |
| POLANSKY         | EXP-D9   | 123                 | --   | --   | --  | 100                        | --   | --   | 57      | 76     |
| SORGHUM PARTNERS | SP 31A15 | 107                 | 67   | 144  | 106 | 87                         | 108  | 127  | 53      | 66     |
| SORGHUM PARTNERS | SP 43M80 | 110                 | 68   | --   | 89  | 90                         | 108  | --   | 57      | 65     |
| SORGHUM PARTNERS | SP 68M57 | 106                 | 78   | 104  | 96  | 86                         | 125  | 91   | 58      | 67     |
|                  | Average  | 123                 | 63   | 114  | 100 | 100                        | 100  | 100  | 57      | 70     |
|                  | CV (%)   | 10                  | 12   | 8    | --  | 10                         | 12   | 8    | 2       | --     |
|                  | LSD      | 25                  | 10   | 13   | --  | 11                         | 17   | 12   | 2       | --     |

\*Yields must differ by more than the LSD value to be considered statistically different.

Cooperator: Kansas State University Northwest Research-Extension Center

Fertilizer: 100-0-0 lb/a N, P, K

Soil Series: Keith silt loam

Herbicide: Lumax 80 oz/a + Buccaneer 5 extra 56 oz/a + Atrazine 32 oz/a + Dicamba 16 oz/a

Target population: 46,000 plants

No-till after wheat

Planted: 6/13/20

Harvested: 11/6/20

| Monthly rainfall (in) | April | May | June | July | August | Total       |
|-----------------------|-------|-----|------|------|--------|-------------|
| 2020                  | 0.3   | 2.0 | 1.5  | 4.1  | 2.0    | <b>9.7</b>  |
| Long-term average     | 2.0   | 1.3 | 2.5  | 3.8  | 2.8    | <b>14.4</b> |
| Departure             |       |     |      |      |        | <b>-4.7</b> |

**Table 13. Tribune, Greeley County Dryland Grain Sorghum Performance Test, 2018-2020**

| BRAND             | NAME         | ACRE YIELD, BUSHELS |      |      |     | YIELD AS % OF TEST AVERAGE |      |      | TW<br>(lb/bu) | BLOOM<br>(days) | LODGE<br>(%) |
|-------------------|--------------|---------------------|------|------|-----|----------------------------|------|------|---------------|-----------------|--------------|
|                   |              | 2020                | 2019 | 2018 | AVG | 2020                       | 2019 | 2018 |               |                 |              |
| ADVANTA           | ADV G1142IG  | 124                 | --   | --   | --  | 101                        | --   | --   | 58            | 86              | 18           |
| ADVANTA           | ADV G1329    | 144                 | --   | --   | --  | 118                        | --   | --   | 60            | 71              | 1            |
| ADVANTA           | ADV G2106    | 130                 | 117  | 154  | 134 | 106                        | 101  | 114  | 56            | 75              | 23           |
| ADVANTA           | ADV G2168IG  | 145                 | --   | --   | --  | 119                        | --   | --   | 56            | 78              | 0            |
| ADVANTA           | ADV G2177IG  | 139                 | --   | --   | --  | 113                        | --   | --   | 59            | 75              | 13           |
| ADVANTA           | ADV G2193IG  | 123                 | --   | --   | --  | 100                        | --   | --   | 59            | 73              | 18           |
| ADVANTA           | ADV G2275    | 110                 | 121  | 119  | 117 | 90                         | 104  | 89   | 56            | 68              | 0            |
| ADVANTA           | ADV XG256    | 133                 | 117  | --   | 125 | 108                        | 101  | --   | 57            | 75              | 0            |
| ADVANTA           | ADV XG267    | 140                 | --   | --   | --  | 114                        | --   | --   | 57            | 83              | 25           |
| ADVANTA           | ADV XG397    | 123                 | --   | --   | --  | 101                        | --   | --   | 56            | 85              | 0            |
| ADVANTA           | ADV XG9127   | 117                 | 110  | --   | 114 | 96                         | 95   | --   | 61            | 75              | 48           |
| ADVANTA           | AG1203       | 95                  | 124  | --   | 110 | 78                         | 107  | --   | 55            | 90              | 4            |
| DEKALB            | DKS29-95     | 133                 | --   | --   | --  | 108                        | --   | --   | 56            | 75              | 0            |
| DEKALB            | DKS33-07     | 127                 | --   | --   | --  | 104                        | --   | --   | 58            | 83              | 5            |
| DEKALB            | DKS36-07     | 131                 | --   | --   | --  | 107                        | --   | --   | 58            | 69              | 23           |
| DEKALB            | DKS38-16     | 120                 | 128  | 142  | 130 | 98                         | 111  | 106  | 58            | 80              | 5            |
| DEKALB            | DKS44-07     | 123                 | --   | --   | --  | 101                        | --   | --   | 60            | 74              | 5            |
| DYNA-GRO          | GX17912      | 129                 | 131  | 154  | 138 | 105                        | 113  | 114  | 57            | 81              | 0            |
| DYNA-GRO          | GX18919      | 139                 | 110  | 121  | 123 | 113                        | 95   | 90   | 58            | 82              | 8            |
| DYNA-GRO          | GX19981      | 99                  | --   | --   | --  | 81                         | --   | --   | 56            | 65              | 0            |
| DYNA-GRO          | GX20564      | 138                 | --   | --   | --  | 113                        | --   | --   | 58            | 81              | 5            |
| DYNA-GRO          | M54GR24      | 116                 | 100  | --   | 108 | 95                         | 86   | --   | 58            | 75              | 36           |
| DYNA-GRO          | M57GB19      | 127                 | 125  | --   | 126 | 103                        | 108  | --   | 57            | 78              | 28           |
| DYNA-GRO          | M57GC29      | 137                 | 103  | --   | 120 | 112                        | 89   | --   | 58            | 77              | 3            |
| DYNA-GRO          | M59GB57      | 127                 | 105  | 122  | 118 | 104                        | 90   | 91   | 56            | 86              | 3            |
| DYNA-GRO          | M59GB94      | 102                 | 126  | --   | 114 | 83                         | 109  | --   | 57            | 80              | 79           |
| DYNA-GRO          | M60GB31      | 127                 | --   | --   | --  | 104                        | --   | --   | 57            | 82              | 0            |
| DYNA-GRO          | M60GB88      | 124                 | --   | --   | --  | 102                        | --   | --   | 58            | 81              | 23           |
| DYNA-GRO          | M62GB77      | 91                  | --   | --   | --  | 74                         | --   | --   | 57            | 78              | 5            |
| DYNA-GRO          | M69GB38      | 116                 | --   | --   | --  | 94                         | --   | --   | 57            | 73              | 25           |
| DYNA-GRO          | M69GR88      | 126                 | --   | --   | --  | 103                        | --   | --   | 58            | 81              | 20           |
| GAYLAND WARD SEED | 18036        | 123                 | --   | --   | --  | 101                        | --   | --   | 58            | 76              | 15           |
| GAYLAND WARD SEED | 18057        | 114                 | 118  | --   | 116 | 93                         | 102  | --   | 57            | 85              | 43           |
| GAYLAND WARD SEED | 18072        | 114                 | --   | --   | --  | 93                         | --   | --   | 60            | 88              | 3            |
| GAYLAND WARD SEED | 18567        | 128                 | --   | --   | --  | 105                        | --   | --   | 57            | 76              | 15           |
| GAYLAND WARD SEED | 19001        | 127                 | --   | --   | --  | 103                        | --   | --   | 59            | 81              | 25           |
| GAYLAND WARD SEED | 19014        | 119                 | 114  | --   | 116 | 97                         | 98   | --   | 58            | 81              | 26           |
| GAYLAND WARD SEED | 19015        | 136                 | --   | --   | --  | 111                        | --   | --   | 57            | 83              | 23           |
| GAYLAND WARD SEED | 20313        | 125                 | --   | --   | --  | 102                        | --   | --   | 57            | 78              | 18           |
| GOLDEN ACRES      | 1510C        | 103                 | --   | --   | --  | 84                         | --   | --   | 55            | 84              | 15           |
| GOLDEN ACRES      | 2620C        | 133                 | 133  | 144  | 137 | 109                        | 115  | 107  | 61            | 76              | 45           |
| GOLDEN ACRES      | 2730B        | 136                 | 125  | 149  | 137 | 111                        | 108  | 110  | 58            | 76              | 26           |
| GOLDEN ACRES      | 2840B        | 146                 | 123  | 138  | 136 | 119                        | 106  | 103  | 57            | 81              | 13           |
| GOLDEN ACRES      | 3180B        | 131                 | --   | --   | --  | 107                        | --   | --   | 57            | 76              | 10           |
| MATURITY CHECK    | DEKALB EARLY | 123                 | 123  | --   | 123 | 100                        | 106  | --   | 58            | 82              | 3            |
| MATURITY CHECK    | DEKALB LATE  | 128                 | 127  | --   | 127 | 104                        | 110  | --   | 58            | 88              | 25           |
| MATURITY CHECK    | DEKALB MED   | 113                 | 128  | --   | 120 | 92                         | 111  | --   | 53            | 85              | 0            |
| MATURITY CHECK    | EARLY        | 109                 | 108  | 129  | 109 | 89                         | 93   | 96   | 57            | 73              | 3            |
| MATURITY CHECK    | LATE         | 105                 | 133  | 159  | 119 | 86                         | 114  | 118  | 55            | 90              | 5            |
| MATURITY CHECK    | MED          | 139                 | 119  | 135  | 129 | 113                        | 102  | 100  | 57            | 80              | 0            |
| SORGHUM PARTNERS  | SP 31A15     | 90                  | 115  | 129  | 111 | 74                         | 99   | 96   | 58            | 85              | 23           |
| SORGHUM PARTNERS  | SP 43M80     | 145                 | 110  | --   | 128 | 118                        | 95   | --   | 61            | 83              | 24           |
| SORGHUM PARTNERS  | SP 68M57     | 93                  | 121  | 143  | 119 | 76                         | 104  | 106  | 57            | 87              | 20           |
|                   | Average      | 123                 | 116  | 135  | 125 | 100                        | 100  | 100  | 58            | 79              | 17           |
|                   | CV (%)       | 12                  | 4    | 7    | --  | 12                         | 4    | 7    | 2             | 2               | --           |
|                   | LSD (0.05)   | 21                  | 7    | 13   | --  | 16                         | 6    | 10   | 2             | 2               | 44           |

\*Yields must differ by more than the LSD vlaue to be considered statistically different.

Cooperator: Kansas State University Southwest Research-Extension Center

Fertilizer: 120-30-0 lb/a N, P, K                      Soil Series: Ulysses silt loam

Herbicide: Lumax 86 oz/a; PowerMax 22 oz/a; Peak 0.75 oz/a

Target population: 45,000 plants                      No-till after fallow

Planted: 5/29/20    Harvested: 11/12/20

| Monthly rainfall (in) | April | May | June | July | August | Total       |
|-----------------------|-------|-----|------|------|--------|-------------|
| 2020                  | 0.1   | 0.8 | 2.7  | 3.9  | 3.2    | <b>10.7</b> |
| Long-term average     | 1.7   | 2.8 | 2.8  | 3.0  | 2.7    | <b>12.9</b> |
| Departure             |       |     |      |      |        | <b>-2.2</b> |

**Table 14. Garden City, Finney County Dryland Grain Sorghum Performance Test, 2018-2020**

| BRAND             | NAME     | ACRE YIELD, BUSHELS |      |      |     | YIELD AS % OF TEST AVERAGE |      |      | TW<br>(lb/bu) |
|-------------------|----------|---------------------|------|------|-----|----------------------------|------|------|---------------|
|                   |          | 2020                | 2019 | 2018 | AVG | 2020                       | 2019 | 2018 |               |
| DEKALB            | DKS29-95 | 42                  | --   | --   | --  | 79                         | --   | --   | 59            |
| DEKALB            | DKS33-07 | 47                  | 112  | 44   | 68  | 88                         | 129  | 75   | 60            |
| DEKALB            | DKS36-07 | 55                  | --   | --   | --  | 104                        | --   | --   | 60            |
| DEKALB            | DKS38-16 | 54                  | 112  | 52   | 73  | 100                        | 129  | 89   | 60            |
| DEKALB            | DKS44-07 | 61                  | --   | --   | --  | 114                        | --   | --   | 61            |
| DEKALB            | DKS45-23 | 45                  | 112  | 78   | 78  | 85                         | 129  | 134  | 59            |
| DYNA-GRO          | GX19981  | 66                  | 97   | --   | 82  | 124                        | 112  | --   | 61            |
| DYNA-GRO          | GX20564  | 41                  | --   | --   | --  | 77                         | --   | --   | 58            |
| DYNA-GRO          | M60GB31  | 47                  | 114  | 61   | 74  | 89                         | 131  | 104  | 59            |
| DYNA-GRO          | M60GB88  | 57                  | --   | --   | --  | 107                        | --   | --   | 60            |
| DYNA-GRO          | M62GB77  | 43                  | 101  | --   | 72  | 80                         | 116  | --   | 60            |
| DYNA-GRO          | M69GB38  | 52                  | 97   | --   | 75  | 98                         | 112  | --   | 60            |
| DYNA-GRO          | M69GR88  | 51                  | --   | --   | --  | 95                         | --   | --   | 60            |
| DYNA-GRO          | M71GR91  | 38                  | 78   | --   | 58  | 71                         | 90   | --   | 59            |
| DYNA-GRO          | M72GB71  | 67                  | --   | --   | --  | 124                        | --   | --   | 60            |
| DYNA-GRO          | M74GB17  | 50                  | 72   | --   | 61  | 94                         | 83   | --   | 58            |
| GAYLAND WARD SEED | 18036    | 41                  | --   | --   | --  | 76                         | --   | --   | 61            |
| GAYLAND WARD SEED | 18057    | 65                  | 94   | --   | 80  | 122                        | 109  | --   | 59            |
| GAYLAND WARD SEED | 18062    | 49                  | --   | --   | --  | 92                         | --   | --   | 59            |
| GAYLAND WARD SEED | 18063    | 54                  | --   | --   | --  | 101                        | --   | --   | 59            |
| GAYLAND WARD SEED | 18072    | 56                  | --   | --   | --  | 104                        | --   | --   | 59            |
| GAYLAND WARD SEED | 18094    | 70                  | 91   | --   | 81  | 131                        | 105  | --   | 58            |
| GAYLAND WARD SEED | 18096    | 49                  | --   | --   | --  | 91                         | --   | --   | 58            |
| GAYLAND WARD SEED | 18238    | 63                  | --   | --   | --  | 117                        | --   | --   | 60            |
| GAYLAND WARD SEED | 18338    | 54                  | --   | --   | --  | 102                        | --   | --   | 59            |
| GAYLAND WARD SEED | 18345    | 49                  | --   | --   | --  | 91                         | --   | --   | 57            |
| GAYLAND WARD SEED | 18350    | 53                  | --   | --   | --  | 98                         | --   | --   | 59            |
| GAYLAND WARD SEED | 18567    | 56                  | --   | --   | --  | 104                        | --   | --   | 59            |
| GAYLAND WARD SEED | 19001    | 72                  | --   | --   | --  | 135                        | --   | --   | 60            |
| GAYLAND WARD SEED | 19009    | 42                  | --   | --   | --  | 78                         | --   | --   | 59            |
| GAYLAND WARD SEED | 19014    | 57                  | 89   | --   | 73  | 106                        | 102  | --   | 60            |
| GAYLAND WARD SEED | 19015    | 53                  | --   | --   | --  | 98                         | --   | --   | 60            |
| GAYLAND WARD SEED | 19016    | 44                  | --   | --   | --  | 82                         | --   | --   | 55            |
| GAYLAND WARD SEED | 19017    | 46                  | --   | --   | --  | 86                         | --   | --   | 56            |
| GAYLAND WARD SEED | 19021    | 39                  | --   | --   | --  | 73                         | --   | --   | 57            |
| GAYLAND WARD SEED | 19023    | 42                  | --   | --   | --  | 79                         | --   | --   | 59            |
| GAYLAND WARD SEED | 20132    | 74                  | --   | --   | --  | 138                        | --   | --   | 58            |
| GAYLAND WARD SEED | 20136    | 41                  | --   | --   | --  | 76                         | --   | --   | 58            |
| GAYLAND WARD SEED | 20138    | 60                  | --   | --   | --  | 113                        | --   | --   | 59            |
| GAYLAND WARD SEED | 20150    | 45                  | --   | --   | --  | 85                         | --   | --   | 59            |
| GAYLAND WARD SEED | 20153    | 45                  | --   | --   | --  | 84                         | --   | --   | 59            |
| GAYLAND WARD SEED | 20312    | 67                  | --   | --   | --  | 126                        | --   | --   | 59            |
| GAYLAND WARD SEED | 20313    | 55                  | --   | --   | --  | 103                        | --   | --   | 59            |

**Table 14 continued. Garden City, Finney County Dryland Grain Sorghum Performance Test, 2018-2020**

| BRAND            | NAME         | ACRE YIELD, BUSHELS |      |      |     | YIELD AS % OF TEST AVERAGE |      |      | TW<br>(lb/bu) |
|------------------|--------------|---------------------|------|------|-----|----------------------------|------|------|---------------|
|                  |              | 2020                | 2019 | 2018 | AVG | 2020                       | 2019 | 2018 |               |
| GOLDEN ACRES     | 2620C        | 53                  | 75   | 54   | 61  | 99                         | 87   | 92   | 58            |
| GOLDEN ACRES     | 2730B        | 50                  | 85   | 52   | 62  | 93                         | 98   | 89   | 61            |
| MATURITY CHECK   | DEKALB EARLY | 64                  | 69   | 79   | 71  | 119                        | 79   | 134  | 59            |
| MATURITY CHECK   | DEKALB LATE  | 46                  | 80   | 43   | 56  | 86                         | 92   | 73   | 60            |
| MATURITY CHECK   | DEKALB MED   | 56                  | 98   | 50   | 68  | 105                        | 112  | 85   | 60            |
| MATURITY CHECK   | EARLY        | 76                  | 102  | 65   | 81  | 142                        | 118  | 111  | 58            |
| MATURITY CHECK   | LATE         | 47                  | 81   | 49   | 59  | 88                         | 93   | 83   | 59            |
| MATURITY CHECK   | MED          | 88                  | 82   | 59   | 76  | 164                        | 95   | 101  | 59            |
| SORGHUM PARTNERS | SP 31A15     | 79                  | 76   | 50   | 68  | 148                        | 87   | 86   | 58            |
| SORGHUM PARTNERS | SP 43M80     | 50                  | 79   | --   | 65  | 94                         | 92   | --   | 57            |
| SORGHUM PARTNERS | SP 68M57     | 59                  | 93   | 72   | 75  | 109                        | 100  | 122  | 59            |
|                  | Average      | 54                  | 87   | 58   | 66  | 100                        | 100  | 100  | 59            |
|                  | CV (%)       | 11                  | 10   | 9    | --  | 11                         | 10   | 9    | 3             |
|                  | LSD (0.05)   | 11                  | 12   | 9    | --  | 15                         | 14   | 15   | 2             |

\*Yields must differ by more than the LSD value to be considered statistically different.

Cooperator: Kansas State University Southwest Research-Extension Center

Fertilizer: 100-0-0 lb/a N, P, K

Soil Series: Keith silt loam

Herbicide: 75 oz/a Lumax

No-till after wheat

Target population: 45,000 plants

Planted: 6/5/20

Harvested: 12/1/20

| Monthly rainfall (in) | April | May | June | July | August | Total       |
|-----------------------|-------|-----|------|------|--------|-------------|
| 2020                  | 0.1   | 0.7 | 1.9  | 5.2  | 1.9    | <b>9.8</b>  |
| Long-term average     | 1.7   | 3.0 | 3.1  | 2.8  | 2.5    | <b>13.2</b> |
| Departure             |       |     |      |      |        | <b>-3.4</b> |

**Table 15. WESTERN Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2020**

| <b>BRAND/NAME</b> | <b>ELD</b> | <b>THD</b> | <b>GRD</b> | <b>FND</b> | <b>AVG.</b> | <b>BRAND/NAME</b>        | <b>ELD</b> | <b>THD</b> | <b>GRD</b> | <b>FND</b> | <b>AVG.</b> |
|-------------------|------------|------------|------------|------------|-------------|--------------------------|------------|------------|------------|------------|-------------|
| <b>ADVANTA</b>    |            |            |            |            |             | <b>GAYLAND WARD SEED</b> |            |            |            |            |             |
| ADV G1142IG       | 89         | 104        | 101        | --         | --          | 18036                    | 101        | 110        | 101        | 76         | 97          |
| ADV G1329         | --         | 82         | 118        | --         | --          | 18057                    | 95         | 114        | --         | 122        | --          |
| ADV G2106         | 95         | 121        | 106        | --         | --          | 18062                    | --         | --         | --         | 92         | --          |
| ADV G2168IG       | 105        | 123        | 119        | --         | --          | 18063                    | --         | --         | --         | 101        | --          |
| ADV G2193IG       | 93         | 104        | 100        | --         | --          | 18072                    | 90         | --         | --         | 104        | --          |
| ADV G2275         | 117        | 105        | 90         | --         | --          | 18094                    | --         | --         | --         | 131        | --          |
| ADV G3189         | 95         | --         | --         | --         | --          | 18096                    | 95         | --         | --         | 91         | --          |
| ADV XG224         | 105        | --         | --         | --         | --          | 18238                    | --         | --         | --         | 117        | --          |
| ADV XG256         | 90         | 95         | 108        | --         | --          | 18338                    | --         | --         | --         | 102        | --          |
| ADV XG267         | 68         | 85         | 114        | --         | --          | 18345                    | --         | --         | --         | 91         | --          |
| ADV XG397         | 95         | 88         | 101        | --         | --          | 18350                    | --         | --         | --         | 98         | --          |
| ADV XG9127        | 102        | 118        | 96         | --         | --          | 18567                    | 99         | 101        | --         | 104        | --          |
| ADVG2177IG        | 72         | 110        | 113        | --         | --          | 19001                    | 118        | --         | --         | 135        | --          |
| AG1203            | 115        | 101        | 78         | --         | --          | 19009                    | --         | --         | --         | 78         | --          |
| <b>DEKALB</b>     |            |            |            |            |             | 19014                    | --         | 106        | --         | 106        | --          |
| DKS29-95          | 101        | 95         | 108        | 79         | 96          | 19015                    | 92         | --         | 111        | 98         | --          |
| DKS33-07          | 110        | 118        | 104        | 88         | 105         | 19016                    | 88         | --         | --         | 82         | --          |
| DKS36-07          | 112        | 115        | 107        | 104        | 109         | 19017                    | 91         | --         | --         | 86         | --          |
| DKS38-16          | 124        | 103        | 98         | 100        | 106         | 19021                    | --         | --         | --         | 73         | --          |
| DKS44-07          | 104        | 105        | 101        | 114        | 106         | 19023                    | --         | --         | --         | 79         | --          |
| DKS45-23          | 122        | --         | --         | 85         | --          | 20132                    | --         | --         | --         | 138        | --          |
| <b>DYNA-GRO</b>   |            |            |            |            |             | 20136                    | --         | --         | --         | 76         | --          |
| GX17912           | 112        | 98         | 105        | --         | --          | 20138                    | --         | --         | --         | 113        | --          |
| GX18919           | 87         | 76         | 113        | --         | --          | 20150                    | --         | --         | --         | 85         | --          |
| GX19981           | 127        | 100        | 81         | 124        | 108         | 20153                    | --         | --         | --         | 84         | --          |
| GX20564           | 104        | 83         | 113        | 77         | 94          | 20312                    | --         | --         | --         | 126        | --          |
| M54GR24           | 97         | 85         | 95         | --         | --          | 20313                    | 110        | --         | 102        | 103        | --          |
| M57GB19           | 109        | 102        | 103        | --         | --          | <b>GOLDEN ACRES</b>      |            |            |            |            |             |
| M57GC29           | 89         | 91         | 112        | --         | --          | 1510C                    | 114        | 104        | 84         | --         | --          |
| M59GB57           | 92         | 65         | 104        | --         | --          | 2620C                    | 115        | 80         | 109        | 99         | 101         |
| M59GB94           | 113        | 105        | 83         | --         | --          | 2730B                    | 114        | 111        | 111        | 93         | 107         |
| M60GB31           | 109        | 114        | 104        | 89         | 104         | 2840B                    | 127        | 101        | 119        | --         | --          |
| M60GB88           | 90         | 103        | 102        | 107        | 100         | 3180B                    | --         | 112        | 107        | --         | --          |
| M62GB77           | 84         | 87         | 74         | 80         | 81          | <b>POLANSKY</b>          |            |            |            |            |             |
| M69GB38           | 111        | 92         | 94         | 98         | 99          | 5519                     | 102        | 106        | --         | --         | --          |
| M69GR88           | 90         | 96         | 103        | 95         | 96          | 5629                     | 124        | 117        | --         | --         | --          |
| M71GR91           | --         | --         | --         | 71         | --          | 5719                     | 122        | 123        | --         | --         | --          |
| M72GB71           | --         | --         | --         | 124        | --          | EXP-D8                   | 78         | 104        | --         | --         | --          |
| M74GB17           | --         | --         | --         | 94         | --          | EXP-D9                   | 87         | 100        | --         | --         | --          |

ELD = Ellis Co., Hays

THD = Thomas Co., Colby

GRD = Greeley Co., Tribune

FND = Finney Co., Garden City



**Table 15 continued. WESTERN Kansas Grain Sorghum Hybrid Yield Summary (% of test avg.), 2020**

| <b>BRAND/NAME</b>       | <b>ELD</b> | <b>THD</b> | <b>GRD</b> | <b>FND</b> | <b>AVG.</b> | <b>BRAND/NAME</b> | <b>ELD</b> | <b>THD</b> | <b>GRD</b> | <b>FND</b> | <b>AVG.</b> |
|-------------------------|------------|------------|------------|------------|-------------|-------------------|------------|------------|------------|------------|-------------|
| <b>SORGHUM PARTNERS</b> |            |            |            |            |             |                   |            |            |            |            |             |
| SP 31A15                | 101        | 87         | 74         | 148        | 102         |                   |            |            |            |            |             |
| SP 43M80                | 106        | 90         | 118        | 94         | 102         |                   |            |            |            |            |             |
| SP 68M57                | 113        | 86         | 76         | 109        | 96          |                   |            |            |            |            |             |
| <b>MATURITY CHECK</b>   |            |            |            |            |             |                   |            |            |            |            |             |
| DEKALB EARLY            | 94         | 89         | 100        | 119        | 101         |                   |            |            |            |            |             |
| DEKALB LATE             | 98         | 113        | 104        | 86         | 101         |                   |            |            |            |            |             |
| DEKALB MED              | 112        | 119        | 92         | 105        | 107         |                   |            |            |            |            |             |
| EARLY                   | 118        | 119        | 89         | 142        | 117         |                   |            |            |            |            |             |
| LATE                    | 107        | 85         | 86         | 88         | 92          |                   |            |            |            |            |             |
| MED                     | 111        | 92         | 113        | 164        | 120         |                   |            |            |            |            |             |
| AVERAGES (bu/a)         | 100        | 100        | 100        | 100        | 100         |                   |            |            |            |            |             |
| CV (%)                  | 7          | 8          | 12         | 11         | --          |                   |            |            |            |            |             |
| LSD (0.05)              | 14         | 11         | 16         | 15         | --          |                   |            |            |            |            |             |

ELD = Ellis Co., Hays

THD = Thomas Co., Colby

GRD = Greeley Co., Tribune

FND = Finney Co., Garden City



**Table 17. Tribune, Greeley County Irrigated Grain Sorghum Performance Test, 2018-2020**

| BRAND             | NAME         | ACRE YIELD, BUSHELS |      |      |     | YIELD AS % OF TEST AVERAGE |      |      | TW<br>(lb/bu) | BLOOM<br>(days) | LODGE*<br>(%) |
|-------------------|--------------|---------------------|------|------|-----|----------------------------|------|------|---------------|-----------------|---------------|
|                   |              | 2020                | 2019 | 2018 | AVG | 2020                       | 2019 | 2018 |               |                 |               |
| ADVANTA           | ADV G1142IG  | 132                 | --   | --   | --  | 106                        | --   | --   | 57            | 83              | 8             |
| ADVANTA           | ADV G2106    | 136                 | --   | --   | --  | 110                        | --   | --   | 57            | 74              | 53            |
| ADVANTA           | ADV G2168IG  | 131                 | --   | --   | --  | 106                        | --   | --   | 56            | 76              | 9             |
| ADVANTA           | ADV G2177IG  | 130                 | --   | --   | --  | 105                        | --   | --   | 57            | 84              | 3             |
| ADVANTA           | ADV G2193IG  | 141                 | --   | --   | --  | 113                        | --   | --   | 57            | 75              | 5             |
| ADVANTA           | ADV G2275    | 143                 | 86   | 92   | 107 | 115                        | 88   | 81   | 59            | 75              | 51            |
| ADVANTA           | ADV G3189    | 136                 | --   | --   | --  | 109                        | --   | --   | 57            | 83              | 57            |
| ADVANTA           | ADV XG224    | 134                 | 141  | --   | 137 | 108                        | 146  | --   | 58            | 79              | 63            |
| ADVANTA           | ADV XG256    | 109                 | --   | --   | --  | 88                         | --   | --   | 57            | 78              | 71            |
| ADVANTA           | ADV XG267    | 97                  | --   | --   | --  | 78                         | --   | --   | 55            | 76              | 43            |
| ADVANTA           | ADV XG397    | 133                 | 83   | --   | 108 | 107                        | 86   | --   | 57            | 76              | 70            |
| ADVANTA           | AG1203       | 117                 | 78   | --   | 98  | 95                         | 81   | --   | 58            | 77              | 48            |
| DEKALB            | DKS36-07     | 137                 | --   | --   | --  | 111                        | --   | --   | 57            | 73              | 20            |
| DEKALB            | DKS38-16     | 137                 | 105  | 126  | 123 | 110                        | 109  | 111  | 59            | 73              | 27            |
| DEKALB            | DKS44-07     | 114                 | --   | --   | --  | 92                         | --   | --   | 59            | 75              | 62            |
| DEKALB            | DKS45-23     | 104                 | 142  | 144  | 130 | 84                         | 147  | 128  | 53            | 76              | 56            |
| DEKALB            | DKS53-53     | 109                 | 135  | 140  | 128 | 88                         | 139  | 125  | 59            | 79              | 71            |
| DEKALB            | DKS54-07     | 111                 | 115  | --   | 113 | 90                         | 118  | --   | 58            | 79              | 66            |
| DYNA-GRO          | GX17912      | 127                 | --   | --   | --  | 102                        | --   | --   | 54            | 71              | 35            |
| DYNA-GRO          | GX18919      | 109                 | --   | --   | --  | 88                         | --   | --   | 54            | 65              | 11            |
| DYNA-GRO          | GX19981      | 117                 | 93   | --   | 105 | 95                         | 96   | --   | 58            | 77              | 53            |
| DYNA-GRO          | GX20564      | 116                 | --   | --   | --  | 93                         | --   | --   | 56            | 75              | 70            |
| DYNA-GRO          | M54GR24      | 116                 | 109  | --   | 113 | 94                         | 113  | --   | 58            | 69              | 27            |
| DYNA-GRO          | M57GB19      | 123                 | 56   | --   | 89  | 99                         | 57   | --   | 56            | 70              | 43            |
| DYNA-GRO          | M57GC29      | 110                 | 83   | --   | 97  | 89                         | 85   | --   | 56            | 74              | 13            |
| DYNA-GRO          | M59GB57      | 107                 | 83   | 97   | 96  | 86                         | 85   | 86   | 57            | 66              | 1             |
| DYNA-GRO          | M59GB94      | 120                 | --   | --   | --  | 97                         | --   | --   | 59            | 70              | 65            |
| DYNA-GRO          | M60GB31      | 127                 | 89   | 98   | 105 | 103                        | 91   | 87   | 58            | 77              | 35            |
| DYNA-GRO          | M60GB88      | 142                 | 86   | 93   | 107 | 114                        | 88   | 82   | 56            | 73              | 5             |
| DYNA-GRO          | M62GB77      | 120                 | 110  | --   | 115 | 97                         | 113  | --   | 58            | 72              | 51            |
| DYNA-GRO          | M69GB38      | 142                 | 108  | --   | 125 | 115                        | 111  | --   | 57            | 77              | 54            |
| DYNA-GRO          | M69GR88      | 127                 | 82   | --   | 105 | 103                        | 85   | --   | 57            | 73              | 4             |
| GAYLAND WARD SEED | 18036        | 125                 | --   | --   | --  | 100                        | --   | --   | 58            | 75              | 62            |
| GAYLAND WARD SEED | 18567        | 93                  | --   | --   | --  | 75                         | --   | --   | 57            | 84              | 45            |
| GAYLAND WARD SEED | 19001        | 139                 | --   | --   | --  | 112                        | --   | --   | 58            | 77              | 31            |
| GAYLAND WARD SEED | 19016        | 118                 | --   | --   | --  | 95                         | --   | --   | 54            | 83              | 43            |
| GAYLAND WARD SEED | 19017        | 112                 | --   | --   | --  | 90                         | --   | --   | 52            | 84              | 46            |
| GOLDEN ACRES      | 2620C        | 129                 | --   | --   | --  | 104                        | --   | --   | 56            | 75              | 41            |
| GOLDEN ACRES      | 2730B        | 120                 | --   | --   | --  | 97                         | --   | --   | 57            | 79              | 61            |
| GOLDEN ACRES      | 2840B        | 108                 | 112  | 136  | 119 | 87                         | 115  | 120  | 59            | 71              | 62            |
| GOLDEN ACRES      | 3180B        | 148                 | --   | --   | --  | 119                        | --   | --   | 56            | 74              | 39            |
| MATURITY CHECK    | DEKALB EARLY | 119                 | 86   | 101  | 102 | 96                         | 89   | 90   | 57            | 71              | 18            |
| MATURITY CHECK    | DEKALB LATE  | 131                 | 121  | 113  | 122 | 105                        | 125  | 100  | 59            | 78              | 65            |
| MATURITY CHECK    | DEKALB MED   | 139                 | 117  | 116  | 124 | 112                        | 121  | 103  | 59            | 72              | 34            |
| MATURITY CHECK    | EARLY        | 112                 | 102  | 110  | 108 | 90                         | 106  | 98   | 56            | 67              | 29            |
| MATURITY CHECK    | LATE         | 116                 | 94   | 141  | 117 | 94                         | 97   | 125  | 58            | 79              | 52            |
| MATURITY CHECK    | MED          | 130                 | 80   | 121  | 110 | 105                        | 82   | 107  | 58            | 77              | 69            |
| SORGHUM PARTNERS  | SP 68M57     | 131                 | --   | --   | --  | 106                        | --   | --   | 58            | 72              | 37            |
| SORGHUM PARTNERS  | SP 74M21     | 149                 | --   | --   | --  | 120                        | --   | --   | 57            | 79              | 23            |
| SORGHUM PARTNERS  | SP7715       | 125                 | --   | --   | --  | 101                        | --   | --   | 58            | 86              | 57            |
|                   | Average      | 124                 | 97   | 113  | 111 | 100                        | 100  | 100  | 57            | 76              | 39            |
|                   | CV (%)       | 12                  | 7    | 10   | --  | 12                         | 7    | 10   | 2             | 0               | --            |
|                   | LSD (0.05)   | 24                  | 9    | 16   | --  | 13                         | 9    | 16   | 2             | 3               | 32            |

\*Yields must differ by more than the LSD value to be considered statistically different.

Cooperator: Kansas State University Southwest Research-Extension Center

Fertilizer: 160-40-0 lb/a N, P, K                      Soil Series: Ulysses silt loam

Herbicide: Lumax 80 oz/a; PowerMax 22 oz/a

Target population: 90,000 plants                      No-till after fallow

Planted: 5/28/20    Harvested: 11/14/20

\*Wind/dirt storm shortly after emergence caused considerable damage to young seedlings. Severe lodging occurred later in season.

| Monthly rainfall (in) | April | May | June | July | August | <b>Total</b> |
|-----------------------|-------|-----|------|------|--------|--------------|
| 2020                  | 0.1   | 0.8 | 2.7  | 3.9  | 3.2    | <b>10.7</b>  |
| Long-term average     | 1.7   | 2.8 | 2.8  | 3.0  | 2.7    | <b>12.9</b>  |
| Departure             |       |     |      |      |        | <b>-2.2</b>  |

**Table 18. Kansas IRRIGATED Grain Sorghum Hybrid Yield Summary (% of test avg.), 2020**

| <b>BRAND/NAME</b> | <b>RNI</b> | <b>THI</b> | <b>GRI</b> | <b>FNI</b> | <b>AVG.</b> | <b>RNI</b>                             | <b>THI</b> | <b>GRI</b> | <b>FNI</b> | <b>AVG.</b> |     |
|-------------------|------------|------------|------------|------------|-------------|--|------------|------------|------------|-------------|-----|
| <b>ADVANTA</b>    |            |            |            |            |             |  |            |            |            |             |     |
| ADV G1142IG       | 95         | --         | 106        | --         | 101         | <b>GAYLAND WARD SEED</b>               |            |            |            |             |     |
| ADV G2106         | 104        | --         | 110        | --         | 107         | 18036                                  | --         | --         | 100        | --          | --  |
| ADV G2168IG       | 110        | --         | 106        | --         | 108         | 18567                                  | --         | --         | 75         | --          | --  |
| ADV G2193IG       | 104        | --         | 113        | --         | 109         | 19001                                  | --         | --         | 112        | --          | --  |
| ADV G2275         | 102        | --         | 115        | --         | 108         | 19016                                  | --         | --         | 95         | --          | --  |
| ADV G3189         | 84         | --         | 109        | --         | 97          | 19017                                  | --         | --         | 90         | --          | --  |
| ADV XG224         | 121        | --         | 108        | --         | 114         | <b>GOLDEN ACRES</b>                    |            |            |            |             |     |
| ADV XG256         | 108        | --         | 88         | --         | 98          | 2620C                                  | --         | --         | 104        | --          | --  |
| ADV XG267         | 118        | --         | 78         | --         | 98          | 2730B                                  | --         | --         | 97         | --          | --  |
| ADV XG397         | 100        | --         | 107        | --         | 103         | 2840B                                  | --         | --         | 87         | --          | --  |
| ADV G2177IG       | 111        | --         | 105        | --         | 108         | 3180B                                  | --         | --         | 119        | --          | --  |
| AG1203            | 88         | --         | 95         | --         | 91          | <b>SORGHUM PARTNERS</b>                |            |            |            |             |     |
| <b>DEKALB</b>     |            |            |            |            |             | SP 68M57                               | 94         | --         | 106        | --          | 100 |
| DKS36-07          | 95         | --         | 111        | --         | 103         | SP 74M21                               | 108        | --         | 120        | --          | 114 |
| DKS38-16          | 110        | --         | 110        | --         | 110         | SP7715                                 | 110        | --         | 101        | --          | 105 |
| DKS44-07          | 100        | --         | 92         | --         | 96          | <b>MATURITY CHECK</b>                  |            |            |            |             |     |
| DKS45-23          | 111        | --         | 84         | --         | 98          | DEKALB EARLY                           | 93         | --         | 96         | --          | 95  |
| DKS53-53          | 102        | --         | 88         | --         | 95          | DEKALB LATE                            | 113        | --         | 105        | --          | 109 |
| DKS54-07          | 76         | --         | 90         | --         | 83          | DEKALB MED                             | 101        | --         | 112        | --          | 107 |
| <b>DYNA-GRO</b>   |            |            |            |            |             | EARLY                                  | 88         | --         | 94         | --          | 91  |
| GX17912           | --         | --         | 102        | --         | --          | LATE                                   | 74         | --         | 90         | --          | 82  |
| GX18919           | --         | --         | 88         | --         | --          | MED                                    | 100        | --         | 105        | --          | 102 |
| GX19981           | 120        | --         | 95         | --         | 107         | <b>AVERAGES (bu/a)</b>                 |            |            |            |             |     |
| GX20564           | 84         | --         | 93         | --         | 89          | AVERAGES (bu/a)                        | 100        | --         | 100        | --          | 100 |
| M54GR24           | --         | --         | 94         | --         | --          | CV (%)                                 | 9          | --         | 12         | --          | --  |
| M57GB19           | --         | --         | 99         | --         | --          | LSD (0.05)                             | 13         | --         | 13         | --          | --  |
| M57GC29           | --         | --         | 89         | --         | --          | RNI=Reno Co., Hutchinson               |            |            |            |             |     |
| M59GB57           | --         | --         | 86         | --         | --          | THI=Thomas Co., Colby: abandoned       |            |            |            |             |     |
| M59GB94           | --         | --         | 97         | --         | --          | GRI=Greeley Co., Tribune               |            |            |            |             |     |
| M60GB31           | 101        | --         | 103        | --         | 102         | FNI=Finney Co., Garden City: abandoned |            |            |            |             |     |
| M60GB88           | 101        | --         | 114        | --         | 108         |  |            |            |            |             |     |
| M62GB77           | 115        | --         | 97         | --         | 106         |  |            |            |            |             |     |
| M69GB38           | 120        | --         | 115        | --         | 117         |  |            |            |            |             |     |
| M69GR88           | 98         | --         | 103        | --         | 100         |  |            |            |            |             |     |
| M71GR91           | 108        | --         | --         | --         | --          |  |            |            |            |             |     |
| M72GB71           | 105        | --         | --         | --         | --          |  |            |            |            |             |     |
| M74GB17           | 89         | --         | --         | --         | --          |  |            |            |            |             |     |

**Table 19. Entries in the 2020 Grain Sorghum Performance Tests**

| Brand           | GC | EC | PC | Mat | Days | GB  | SCA | Brand                 | GC | EC | PC | Mat | Days | GB | SCA |
|-----------------|----|----|----|-----|------|-----|-----|-----------------------|----|----|----|-----|------|----|-----|
| <b>ADVANTA</b>  |    |    |    |     |      |     |     | <b>GAYLAND WARD</b>   |    |    |    |     |      |    |     |
| ADV G1142IG     | R  | -- | -- | ME  | 63   | --  | --  | 18036                 | -- | -- | -- | --  | --   | -- | --  |
| ADV G1329       | C  | -- | -- | E   | 58   | --  | --  | 18057                 | -- | -- | -- | --  | --   | -- | --  |
| ADV G2106       | R  | -- | P  | M   | 66   | --  | --  | 18062                 | -- | -- | -- | --  | --   | -- | --  |
| ADV G2168IG     | R  | -- | -- | ME  | 63   | --  | --  | 18063                 | -- | -- | -- | --  | --   | -- | --  |
| ADV G2193IG     | R  | -- | -- | ME  | 63   | --  | --  | 18072                 | -- | -- | -- | --  | --   | -- | --  |
| ADV G2275       | B  | -- | R  | M   | 66   | --  | --  | 18094                 | -- | -- | -- | --  | --   | -- | --  |
| ADV G3189       | -- | -- | -- | ML  | 68   | --  | --  | 18096                 | -- | -- | -- | --  | --   | -- | --  |
| ADV XG224       | R  | -- | P  | ML  | 70   | --  | --  | 18238                 | -- | -- | -- | --  | --   | -- | --  |
| ADV XG256       | R  | -- | P  | M   | 66   | --  | --  | 18338                 | -- | -- | -- | --  | --   | -- | --  |
| ADV XG267       | R  | -- |    | M   | 66   | --  | --  | 18345                 | -- | -- | -- | --  | --   | -- | --  |
| ADV XG397       | R  | -- | P  | ML  | 68   | --  | --  | 18350                 | -- | -- | -- | --  | --   | -- | --  |
| ADV XG9127      | R  | -- | P  | ME  | 63   | --  | --  | 18567                 | -- | -- | -- | --  | --   | -- | --  |
| ADVG2177IG      | R  | -- | -- | ME  | 63   | --  | --  | 19001                 | -- | -- | -- | --  | --   | -- | --  |
| AG1203          | B  | W  | R  | ME  | 63   | --  | --  | 19009                 | -- | -- | -- | --  | --   | -- | --  |
| <b>DEKALB</b>   |    |    |    |     |      |     |     | 19014                 | -- | -- | -- | --  | --   | -- | --  |
| DKS29-95        | R  | -- | P  | E   | 60   | --  | --  | 19015                 | -- | -- | -- | --  | --   | -- | --  |
| DKS33-07        | B  | -- | P  | ME  | 61   | --  | R   | 19016                 | -- | -- | -- | --  | --   | -- | --  |
| DKS36-07        | B  | -- | P  | ME  | 61   | --  | R   | 19017                 | -- | -- | -- | --  | --   | -- | --  |
| DKS38-16        | B  | HY | P  | E   | 62   | --  | R   | 19021                 | -- | -- | -- | --  | --   | -- | --  |
| DKS44-07        | R  | -- | P  | M   | 66   | --  | R   | 19023                 | -- | -- | -- | --  | --   | -- | --  |
| DKS45-23        | B  | HY | P  | M   | 68   | --  | --  | 20132                 | -- | -- | -- | --  | --   | -- | --  |
| DKS53-53        | B  | HY | P  | L   | 72   | I   | --  | 20136                 | -- | -- | -- | --  | --   | -- | --  |
| DKS54-07        | B  | -- | P  | ML  | 73   | --  | R   | 20138                 | -- | -- | -- | --  | --   | -- | --  |
| <b>DYNA-GRO</b> |    |    |    |     |      |     |     | 20150                 | -- | -- | -- | --  | --   | -- | --  |
| GX17912         | C  | HY | P  | ME  | 60   | C,E | --  | 20153                 | -- | -- | -- | --  | --   | -- | --  |
| GX18919         | -- | -- | -- | --  | --   | --  | --  | 20312                 | -- | -- | -- | --  | --   | -- | --  |
| GX19981         | B  | HY | P  | MF  | 70   | --  | R   | 20313                 | -- | -- | -- | --  | --   | -- | --  |
| GX20564         | R  | Y  | P  | M   | 64   | I   | R   | <b>GOLDEN ACRES</b>   |    |    |    |     |      |    |     |
| M54GR24         | R  | HY | P  | E   | 54   | C,E | R   | 1510C                 | C  | Y  | P  | E   | 57   | -- | T   |
| M57GB19         | B  | HY | P  | E   | 57   | --  | --  | 2620C                 | C  | -- | P  | ME  | 59   | -- | --  |
| M57GC29         | -- | -- | -- | --  | --   | --  | R   | 2730B                 | B  | -- | P  | ME  | 59   | -- | --  |
| M59GB57         | B  | HY | P  | E   | 59   | C,E | --  | 2840B                 | B  | -- | P  | ME  | 61   | -- | T   |
| M59GB94         | B  | HY | P  | E   | 59   | --  | R   | 3180B                 | B  | Y  | P  | M   | 67   | -- | T   |
| M60GB31         | B  | HY | T  | ME  | 60   | C,E | R   | 4880R                 | R  | Y  | P  | ML  | 69   | -- | T   |
| M60GB88         | B  | HY | T  | ME  | 60   | C,E | --  | <b>MATURITY CHECK</b> |    |    |    |     |      |    |     |
| M62GB77         | B  | HY | P  | ME  | 62   | C,E | R   | DEKALB EARLY          | -- | -- | -- | E   | --   | -- | --  |
| M69GB38         | B  | HY | P  | MF  | 70   | C,E | --  | DEKALB LATE           | -- | -- | -- | ML  | --   | -- | --  |
| M69GR88         | R  | HY | P  | MF  | 69   | C,E | --  | DEKALB MED            | -- | -- | -- | M   | --   | -- | --  |
| M71GR91         | B  | HY | P  | MF  | 70   | I   | R   | EARLY                 | -- | -- | -- | E   | --   | -- | --  |
| M72GB71         | B  | Y  | P  | ML  | 72   | I   | R   | LATE                  | -- | -- | -- | ML  | --   | -- | --  |
| M74GB17         | B  | HY | T  | ML  | 74   | G   | R   | MED                   | R  | W  | P  | M   | 69   | -- | --  |

**Table 19 continued. Entries in the 2020 Grain Sorghum Performance Tests**

| <b>Brand</b>            | <b>GC</b> | <b>EC</b> | <b>PC</b> | <b>Mat</b> | <b>Days</b> | <b>GB</b> | <b>SCA</b> |
|-------------------------|-----------|-----------|-----------|------------|-------------|-----------|------------|
| <b>POLANSKY</b>         |           |           |           |            |             |           |            |
| 5519                    | B         | --        | --        | ME         | 62          | --        | T          |
| 5629                    | B         | --        | --        | M          | 65          | --        | T          |
| 5719                    | R         | --        | --        | ML         | 70          | --        | T          |
| EXP-D8                  | --        | --        | --        | --         | --          | --        | --         |
| EXP-D9                  | --        | --        | --        | --         | --          | --        | --         |
| <b>SORGHUM PARTNERS</b> |           |           |           |            |             |           |            |
| SP 31A15                | B         | --        | P         | E          | 58          | --        | --         |
| SP 43M80                | B         | --        | P         | ME         | 60          | --        | T          |
| SP 68M57                | B         | --        | P         | M          | 68          | --        | T          |
| SP 74M21                | B         | --        | P         | ML         | 72          | --        | T          |
| SP7715                  | B         | --        | P         | ME         | 73          | --        | T          |

Information provided by entrants:

GC = grain color: bronze, cream, red, yellow, white

EC = endosperm color: white, yellow, hetero-yellow

PC = plant color: purple, tan

Mat. = relative maturity: early, medium, late

Days = days to half bloom

G-bug = resistance to specific greenbug biotypes: C, E, I, K, etc.

SCA = resistance to Sugarcane Aphids



To access crop performance testing information electronically, visit our website. The information contained in this publication, plus more, is available for viewing or downloading at:

[www.agronomy.k-state.edu/services/crop-performance-tests/index.html](http://www.agronomy.k-state.edu/services/crop-performance-tests/index.html)

Excerpts from the University Research Policy Agreement with Cooperating Seed Companies

Permission is hereby given to Kansas State University (KSU) to test varieties and/or hybrids designated on the attached entry forms in the manner indicated in the test announcements. I certify that seed submitted for testing is a true sample of the seed being offered for sale.

I understand that all results from Kansas Crop Performance Tests belong to the University and the public and shall be controlled by the University so as to produce the greatest benefit to the public. Performance data may be used in the following ways: 1) Tables may be reproduced in their entirety provided the source is referenced and data are not manipulated or reinterpreted; 2) Advertising statements by an individual company about the performance of its entries may be made as long as they are accurate statements about the data as published, with no reference to other companies' names or cultivars. In both cases, the following must be included with the reprint or ad citing the appropriate publication number and title: "See the official Kansas State University Agricultural Experiment Station and Cooperative Extension Service Report of Progress 1161, '2020 Kansas Performance Tests with Grain Sorghum Hybrids,' or the Kansas Crop Performance Test website, [www.agronomy.k-state.edu/services/crop-performance-tests/index.html](http://www.agronomy.k-state.edu/services/crop-performance-tests/index.html), for details.

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