

## College Station 2021 Grain Sorghum Performance Trial

| Brand                       | Hybrid        | Days to 50% Flower | Plant Height (in) | Head Ex (in) | Lodging (%) | Moisture (%) | Test Weight (lbs/bu) | Yield * (lbs/acre) |
|-----------------------------|---------------|--------------------|-------------------|--------------|-------------|--------------|----------------------|--------------------|
| DEKALB                      | DKS 50-07     | 80                 | 56                | 6            | 0           | 16.5         | 59.1                 | 6,482              |
| Golden Acres                | 3180B         | 78                 | 55                | 7            | 0           | 15.5         | 55.2                 | 6,360              |
| Dyna-Gro                    | GX21965       | 80                 | 52                | 6            | 0           | 16.1         | 56.8                 | 6,298              |
| Golden Acres                | 4880R         | 80                 | 58                | 6            | 0           | 17.0         | 58.2                 | 6,264              |
| Integra                     | G3665         | 77                 | 56                | 7            | 0           | 15.9         | 54.8                 | 6,259              |
| DEKALB                      | DKS 44-07     | 79                 | 54                | 7            | 0           | 16.7         | 57.0                 | 6,210              |
| Dyna-Gro                    | M67GB87       | 78                 | 56                | 6            | 0           | 16.6         | 56.6                 | 6,179              |
| Dyna-Gro                    | M71GR91       | 80                 | 57                | 5            | 0           | 16.7         | 57.4                 | 6,155              |
| Dyna-Gro                    | GX20970       | 80                 | 54                | 9            | 0           | 16.1         | 55.3                 | 5,822              |
| Dyna-Gro                    | GX20998       | 77                 | 53                | 10           | 0           | 15.6         | 55.8                 | 5,455              |
| Dyna-Gro                    | M72GB71       | 82                 | 56                | 6            | 0           | 16.7         | 56.2                 | 5,404              |
| Texas A&M AgriLife Research | ATx631xRTx436 | 81                 | 64                | 8            | 0           | 15.8         | 55.6                 | 5,332              |
| Alta Seeds                  | ADV G2275     | 76                 | 52                | 9            | 0           | 17.0         | 55.7                 | 5,320              |
| Integra                     | G3711         | 82                 | 56                | 3            | 0           | 16.6         | 57.9                 | 5,172              |
| DEKALB                      | DKS 54-07     | 83                 | 58                | 6            | 0           | 16.2         | 56.8                 | 4,957              |
| DEKALB                      | DKS 36-07     | 76                 | 56                | 8            | 0           | 16.0         | 56.0                 | 4,851              |
| Dyna-Gro                    | M63GB78       | 76                 | 50                | 6            | 0           | 15.5         | 55.0                 | 4,844              |

\*Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked hybrid.



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|-------|--------|--------------------|-------------------|--------------|-------------|--------------|----------------------|--------------------|
|-------|--------|--------------------|-------------------|--------------|-------------|--------------|----------------------|--------------------|

### Agronomic information

|                    |           |
|--------------------|-----------|
| Plant Date         | 3/19/2021 |
| Harvest Date       | 8/6/2021  |
| Irrigated          | Yes       |
| Row Spacing (in)   | 30        |
| Number of Rows     | 2         |
| Seeds per Acre     | 80,000    |
| Precipitation (in) | 29.1      |
| Irrigation (in)    | 0         |
| Herbicide          |           |

\*Pre-emerge: 14 oz/ac Outlook  
\*5/7: 1.33 pt/ac Dual + 1 qt/ac Atrazine

|               |   |
|---------------|---|
| Soil Type     | Weswood silty clay loam                               |
| Tillage       | Conventional, planted on beds, field cultivated twice |
| Previous Crop | Corn  |

|              |       |       |       |     |       |       |       |
|--------------|-------|-------|-------|-----|-------|-------|-------|
| Mean         | 79    | 55    | 7     | 0.0 | 16.2  | 56.4  | 5,727 |
| C.V. %       | 1.5   | 3.0   | 17.7  |     | 3.4   | 1.5   | 10.3  |
| P>f (hybrid) | 0.000 | 0.000 | 0.000 |     | 0.001 | 0.000 | 0.000 |
| L.S.D.       | 1.7   | 2.4   | 1.7   |     | 0.8   | 1.2   | 842.3 |

### Trial Notes

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\* Mehlich 3 by ICP, soiltesting.tamu.edu  
\*\* Samples collected at planting, some locations may have applied fertilizer

Cooperator: Texas A&M AgriLife Research

Four replications of each hybrid are planted in a randomized block design. Model : yield = hybrid blk. SAS 9.4 was used for statistical analysis. LSD provided when hybrid significant at p < 0.05. Yields highlighted in yellow are not statistically different from the top ranked hybrid. Plots were planted using a SRES Advanced planter with Monosem units. Plots were harvested with a JD 3300 plot combine fitted with a Harvest Master GrainGage System. Precipitation data was recorded from January 1 through the harvest date. For additional information contact:  
  
Dr. Ronnie Schnell / Katrina Horn  
ronschnell@tamu.edu / khorn@tamu.edu  
979-845-2935 / 979-845-8505

| Fertilizer Applied |     | Soil Analysis Report** |     |                        |       |
|--------------------|-----|------------------------|-----|------------------------|-------|
| N (lb/ac)          | 150 | NO3-N (ppm)            | 28  | pH                     | 7.7   |
| P2O5 (lb/ac)       | 35  | P (ppm)*               | 70  | Conductivity (umho/cm) | 165   |
| K2O (lb/ac)        | 0   | K (ppm)*               | 218 | Ca (ppm)*              | 6,542 |
| S (lb/ac)          | 20  | S (ppm)*               | 13  | Mg (ppm)*              | 235   |
| Zn (lb/ac)         | 0   |                        |     | Na (ppm)*              | 29    |

\*Yields highlighted in yellow are not significantly different (L.S.D., p=0.05) from the top ranked hybrid.

## College Station

# 2021 Grain Sorghum Performance Trial

| Brand                       | Hybrid        | Plant Population per Acre | Heads per Acre | Plant Stand % | Mean Tiller # per Plant | Lodging (%) | Head Size lb/head | Weathering Rating (0-9) | Iron Chlorosis Rating |
|-----------------------------|---------------|---------------------------|----------------|---------------|-------------------------|-------------|-------------------|-------------------------|-----------------------|
| Texas A&M AgriLife Research | ATx631xRTx436 |                           | 49,005         | 65            | 0.03                    | 0.0         | 0.11              |                         |                       |
| Integra                     | G3665         | 60,331                    | 61,637         | 75            | 0.06                    | 0.0         | 0.10              |                         |                       |
| Integra                     | G3711         | 33,759                    | 38,986         | 42            | 0.17                    | 0.0         | 0.14              |                         |                       |
| Golden Acres                | 3180B         |                           | 64,904         | 85            | 0.00                    | 0.0         | 0.10              |                         |                       |
| Golden Acres                | 4880R         |                           | 59,024         | 75            | 0.04                    | 0.0         | 0.11              |                         |                       |
| Dyna-Gro                    | GX20970       | 54,232                    | 58,370         | 68            | 0.12                    | 0.0         | 0.10              |                         |                       |
| Dyna-Gro                    | GX20998       | 64,904                    | 64,904         | 81            | 0.03                    | 0.0         | 0.08              |                         |                       |
| Dyna-Gro                    | GX21965       | 59,024                    | 60,113         | 74            | 0.02                    | 0.0         | 0.10              |                         |                       |
| Dyna-Gro                    | M63GB78       | 50,094                    | 52,925         | 63            | 0.09                    | 0.0         | 0.09              |                         |                       |
| Dyna-Gro                    | M67GB87       | 47,698                    | 56,628         | 60            | 0.19                    | 0.0         | 0.11              |                         |                       |
| Dyna-Gro                    | M71GR91       | 48,787                    | 50,239         | 61            | 0.05                    | 0.0         | 0.12              |                         |                       |
| Dyna-Gro                    | M72GB71       |                           | 60,331         | 76            | 0.01                    | 0.0         | 0.09              |                         |                       |
| DEKALB                      | DKS 36-07     | 60,548                    | 65,340         | 76            | 0.08                    | 0.0         | 0.07              |                         |                       |
| DEKALB                      | DKS 44-07     | 58,588                    | 60,331         | 73            | 0.06                    | 0.0         | 0.10              |                         |                       |
| DEKALB                      | DKS 50-07     | 52,490                    | 54,668         | 66            | 0.04                    | 0.0         | 0.12              |                         |                       |
| DEKALB                      | DKS 54-07     | 56,846                    | 58,370         | 71            | 0.03                    | 0.0         | 0.09              |                         |                       |
| Alta Seeds                  | ADV G2275     | 55,539                    | 56,628         | 69            | 0.06                    | 0.0         | 0.09              |                         |                       |



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|-------|--------|---------------------------|----------------|---------------|-------------------------|-------------|-------------------|-------------------------|-----------------------|

|      |        |        |    |      |     |      |  |  |
|------|--------|--------|----|------|-----|------|--|--|
| Mean | 55,488 | 57,200 | 69 | 0.06 | 0.0 | 0.10 |  |  |
|------|--------|--------|----|------|-----|------|--|--|

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|--|-----------|
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