

# Thrall

## 2023 Grain Sorghum Performance Trial

| Brand            | Hybrid    | Days to<br>50% Flower | Plant<br>Height (in) | Head Ex<br>(in) | Lodging<br>(%) | Moisture<br>(%) | Test Weight<br>(lbs/bu) | Yield *<br>(lbs/acre) |
|------------------|-----------|-----------------------|----------------------|-----------------|----------------|-----------------|-------------------------|-----------------------|
| DEKALB           | DKS 44-07 | 81                    | 48                   | 0               | 0              | 13.2            | 60.0                    | 4,006                 |
| Dyna-Gro         | GX22936   | 82                    | 49                   | 1               | 0              | 13.5            | 61.1                    | 3,898                 |
| Dyna-Gro         | M71GR91   | 84                    | 52                   | 1               | 0              | 13.8            | 60.3                    | 3,640                 |
| Integra          | G3711     | 83                    | 52                   | 1               | 0              | 13.7            | 60.9                    | 3,568                 |
| Dyna-Gro         | GX22937   | 84                    | 48                   | 2               | 0              | 13.1            | 59.2                    | 3,440                 |
| Integra          | G3640     | 82                    | 47                   | 4               | 0              | 13.1            | 59.7                    | 3,407                 |
| DEKALB           | DKS 45-60 | 82                    | 49                   | 4               | 0              | 13.4            | 60.6                    | 3,360                 |
| Dyna-Gro         | M72GB71   | 85                    | 49                   | 0               | 0              | 12.9            | 60.7                    | 3,352                 |
| DEKALB           | DKS 40-76 | 81                    | 50                   | 5               | 0              | 13.5            | 59.3                    | 3,316                 |
| Dyna-Gro         | GX22934   | 84                    | 49                   | 1               | 0              | 14.2            | 60.5                    | 3,228                 |
| Dyna-Gro         | GX22932   | 83                    | 51                   | 1               | 0              | 13.2            | 60.8                    | 3,200                 |
| DEKALB           | DKS 54-07 | 84                    | 52                   | 3               | 0              | 13.8            | 60.3                    | 3,159                 |
| Integra          | G3665     | 84                    | 48                   | 2               | 0              | 11.3            | 56.8                    | 3,140                 |
| Dyna-Gro         | M60GB31   | 83                    | 48                   | 1               | 0              | 13.0            | 59.2                    | 2,704                 |
| DEKALB           | DKS 50-07 | 84                    | 50                   | 1               | 0              | 13.9            | 60.2                    | 2,689                 |
| Dyna-Gro         | M63GB78   | 81                    | 49                   | 4               | 0              | 13.5            | 58.6                    | 2,653                 |
| Sorghum Partners | SP65M60   | 82                    | 50                   | 1               | 0              | 11.4            | 56.5                    | 2,551                 |
| Dyna-Gro         | M59GB94   | 77                    | 52                   | 5               | 0              | 14.4            | 59.6                    | 2,533                 |
| Dyna-Gro         | M67GB87   | 83                    | 49                   | 0               | 0              | 11.8            | 58.5                    | 2,519                 |

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



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| Brand | Hybrid | Days to<br>50% Flower | Plant<br>Height (in) | Head Ex<br>(in) | Lodging<br>(%) | Moisture<br>(%) | Test Weight<br>(lbs/bu) | Yield *<br>(lbs/acre) |
|-------|--------|-----------------------|----------------------|-----------------|----------------|-----------------|-------------------------|-----------------------|
|-------|--------|-----------------------|----------------------|-----------------|----------------|-----------------|-------------------------|-----------------------|

| Agronomic information                       |           |
|---|-----------|
| Plant Date                                  | 3/28/2023 |
| Harvest Date                                | 8/10/2023 |
| Irrigated                                   | No        |
| Row Spacing (in)                            | 30        |
| Number of Rows                              | 2         |
| Target Seeds per Acre                       | 65,000    |
| Precipitation (in)                          | 14.32     |
| Irrigation (in)                             |           |
| Herbicide                                   |           |
| 16 oz/ac Huskie + 1 lb/ac AMS + 5 oz/ac NIS |           |

|              |       |       |      |     |       |       |       |
|--------------|-------|-------|------|-----|-------|-------|-------|
| Mean         | 82    | 50    | 2    | 0.0 | 13.2  | 59.6  | 3,177 |
| C.V. %       | 1.5   | 6.6   | 75.3 |     | 3.2   | 1.3   | 15.0  |
| P>f (hybrid) | 0.000 | 0.819 |      |     | 0.000 | 0.000 | 0.000 |
| L.S.D.       | 1.7   |       |      |     | 0.7   | 1.2   | 599.1 |

| Trial Notes |
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**Cooperator:** Stiles Farm Foundation

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 planting date through the harvest date. For additional information contact:

Dr. Ronnie Schnell / Katrina Horn  
ronnie.schnell@ag.tamu.edu / katrina.horn@ag.tamu.edu  
979-845-2935 / 979-845-8505

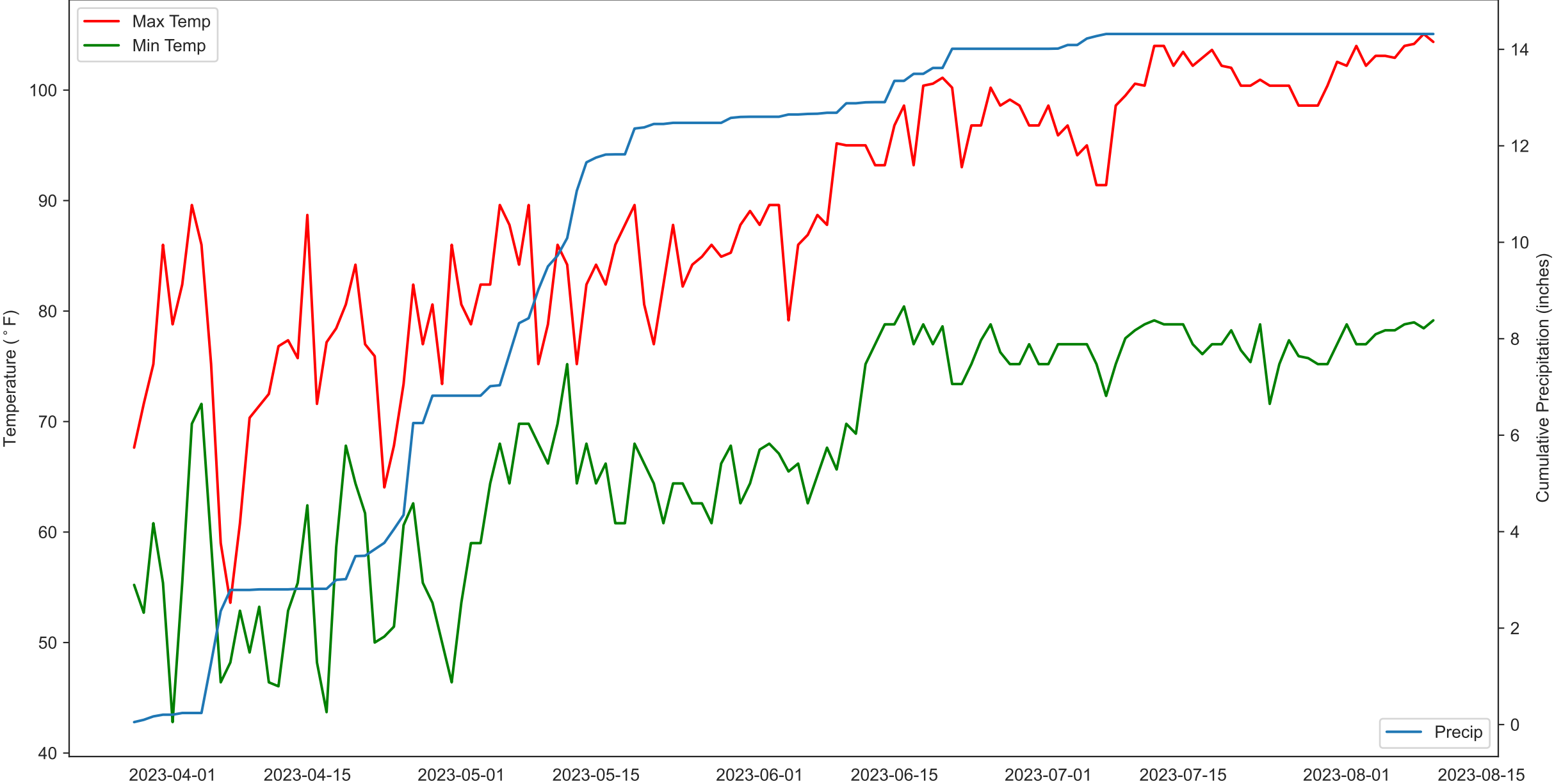
\* Mehlich 3 by ICP, soiltesting.tamu.edu  
\*\* Samples collected at planting, some locations may have applied fertilizer

| Fertilizer Applied |  | Soil Analysis Report** |     |                        |       |
|--------------------|--|------------------------|-----|------------------------|-------|
| N (lb/ac)          |  | NO3-N (ppm)            | 24  | pH                     | 5.9   |
| P2O5 (lb/ac)       |  | P (ppm)*               | 54  | Conductivity (umho/cm) | 55    |
| K2O (lb/ac)        |  | K (ppm)*               | 124 | Ca (ppm)*              | 4,060 |
| S (lb/ac)          |  | S (ppm)*               | 30  | Mg (ppm)*              | 551   |
| Zn (lb/ac)         |  |                        |     | Na (ppm)*              | 18    |

|               |               |
|---------------|---------------|
| Soil Type     | Burleson clay |
| Tillage       | Conventional  |
| Previous Crop | Corn          |

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

2023 Grain Sorghum Thrall





TEXAS A&M UNIVERSITY  
Soil & Crop Sciences

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## 2023 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 |
|------------------|-----------|---------------------------|----------------|---------------|-------------------------|-------------|-------------------|-------------------------|-----------------------|
| Sorghum Partners | SP65M60   | 29,403                    | 30,710         | 45            | 0.19                    | 0.0         | 0.09              |                         |                       |
| Integra          | G3640     | 30,492                    | 34,195         | 47            | 0.12                    | 0.0         | 0.11              |                         |                       |
| Integra          | G3665     |                           | 28,459         | 63            |                         | 0.0         | 0.11              |                         |                       |
| Integra          | G3711     | 34,558                    | 39,494         | 53            | 0.15                    | 0.0         | 0.09              |                         |                       |
| Dyna-Gro         | GX22932   | 27,007                    | 34,267         | 42            | 0.25                    | 0.0         | 0.11              |                         |                       |
| Dyna-Gro         | GX22934   | 23,087                    | 26,572         | 36            | 0.75                    | 0.0         | 0.11              |                         |                       |
| Dyna-Gro         | GX22936   | 36,590                    | 38,333         | 56            | 0.05                    | 0.0         | 0.11              |                         |                       |
| Dyna-Gro         | GX22937   | 25,265                    | 28,096         | 39            | 0.34                    | 0.0         | 0.11              |                         |                       |
| Dyna-Gro         | M59GB94   | 33,686                    | 35,719         | 52            | 0.39                    | 0.0         | 0.07              |                         |                       |
| Dyna-Gro         | M60GB31   | 21,780                    | 27,007         | 34            | 0.31                    | 0.0         | 0.11              |                         |                       |
| Dyna-Gro         | M63GB78   | 23,522                    | 28,314         | 36            | 0.27                    | 0.0         | 0.10              |                         |                       |
| Dyna-Gro         | M67GB87   | 22,869                    | 24,394         | 35            | 0.43                    | 0.0         | 0.12              |                         |                       |
| Dyna-Gro         | M71GR91   |                           | 29,911         | 47            | 0.78                    | 0.0         | 0.12              |                         |                       |
| Dyna-Gro         | M72GB71   | 27,298                    | 31,073         | 42            | 0.29                    | 0.0         | 0.11              |                         |                       |
| DEKALB           | DKS 40-76 | 35,501                    | 36,590         | 55            | 0.18                    | 0.0         | 0.09              |                         |                       |
| DEKALB           | DKS 44-07 |                           | 32,888         | 54            | 0.12                    | 0.0         | 0.12              |                         |                       |
| DEKALB           | DKS 45-60 | 31,145                    | 34,412         | 48            | 0.35                    | 0.0         | 0.10              |                         |                       |
| DEKALB           | DKS 50-07 |                           | 28,967         | 45            | 0.22                    | 0.0         | 0.10              |                         |                       |
| DEKALB           | DKS 54-07 | 32,815                    | 33,686         | 50            | 0.17                    | 0.0         | 0.10              |                         |                       |



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

|      |        |        |    |      |     |      |  |  |
|------|--------|--------|----|------|-----|------|--|--|
| Mean | 30,033 | 31,741 | 46 | 0.30 | 0.0 | 0.10 |  |  |
|------|--------|--------|----|------|-----|------|--|--|

| Agronomic information |   |
|-----------------------|---|
| Plant Date            | 3/28/2023                                   |
| Harvest Date          | 8/10/2023                                   |
| Irrigated             | No  |
| Row Spacing (in)      | 30  |
| Number of Rows        | 2   |
| Target Seeds per Acre | 65,000                                      |
| Precipitation (in)    | 14.32                                       |
| Irrigation (in)       |   |
| Herbicide             | 16 oz/ac Huskie + 1 lb/ac AMS + 5 oz/ac NIS |
| Soil Type             | Burleson clay                               |
| Tillage               | Conventional                                |
| Previous Crop         | Corn  |

| Trial Notes |
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| <b>Cooperator:</b> Stiles Farm Foundation   |
| <p>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 &lt; 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 planting date through the harvest date. For additional information contact:</p> <p>Dr. Ronnie Schnell / Katrina Horn<br/>ronnie.schnell@agnet.tamu.edu / katrina.horn@agnet.tamu.edu<br/>979-845-2935 / 979-845-8505</p> |

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| Fertilizer Applied |  | Soil Analysis Report** |       |
|--------------------|--|------------------------|-------|
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| P2O5 (lb/ac)       |  | P (ppm)*               | 54    |
| K2O (lb/ac)        |  | K (ppm)*               | 124   |
| S (lb/ac)          |  | S (ppm)*               | 30    |
| Zn (lb/ac)         |  |                        |       |
|                    |  | pH                     | 5.9   |
|                    |  | Conductivity (umho/cm) | 55    |
|                    |  | Ca (ppm)*              | 4,060 |
|                    |  | Mg (ppm)*              | 551   |
|                    |  | Na (ppm)*              | 18    |