TEXAS A&M UNIVERSITY
Soil & Crop Sciences

# Monte Alto Full
# 2022 Grain Sorghum
# Performance Trial

TEXAS A&M AGRILIFE

| Brand | Hybrid | Days to 50% Flower | Plant Height (in) | Head Ex (in) | Lodging (%) | Moisture (%) | Test Weight (lbs/bu) | Yield * (lbs/acre) |
|---|---|---|---|---|---|---|---|---|
| Integra | G3711 | 71 | 57 | 3 | 0 | 15.3 | 61.1 | 8,230 |
| Dyna-Gro | GX22934 | 70 | 55 | 2 | 0 | 15.9 | 59.6 | 8,105 |
| Integra | G3665 | 69 | 55 | 5 | 0 | 14.9 | 57.6 | 8,093 |
| DEKALB | DKS 54-07 | 73 | 57 | 3 | 0 | 15.9 | 61.7 | 8,045 |
| Dyna-Gro | GX21965 | 71 | 54 | 2 | 0 | 15.2 | 62.2 | 7,958 |
| Golden Acres | 3180B | 68 | 54 | 4 | 0 | 14.3 | 57.1 | 7,910 |
| DEKALB | DKS 44-07 | 69 | 53 | 4 | 0 | 15.0 | 60.4 | 7,900 |
| DEKALB | DKS 50-07 | 71 | 56 | 4 | 0 | 15.4 | 61.6 | 7,826 |
| Dyna-Gro | M72GB71 | 70 | 55 | 5 | 0 | 15.3 | 59.7 | 7,785 |
| Dyna-Gro | GX22932 | 70 | 59 | 4 | 0 | 15.5 | 60.2 | 7,781 |
| Dyna-Gro | M67GB87 | 69 | 58 | 6 | 0 | 14.6 | 58.8 | 7,764 |
| Golden Acres | 4880R | 73 | 56 | 3 | 0 | 15.6 | 61.8 | 7,669 |
| Dyna-Gro | M71GR91 | 72 | 56 | 3 | 0 | 15.6 | 62.0 | 7,221 |
| DEKALB | DKS 40-76 | 68 | 53 | 9 | 0 | 15.1 | 59.3 | 7,169 |
| Alta Seeds | ADVG 2165 | 72 | 52 | 2 | 0 | 15.7 | 61.2 | 7,102 |
| Dyna-Gro | M63GB78 | 67 | 52 | 8 | 0 | 15.1 | 60.2 | 6,674 |
| Dyna-Gro | M60GB31 | 69 | 50 | 5 | 0 | 15.3 | 61.1 | 6,673 |
| Alta Seeds | ADVG 2168IG | 69 | 47 | 3 | 0 | 14.9 | 60.6 | 6,287 |
| DEKALB | DKS 36-07 | 66 | 52 | 11 | 0 | 14.7 | 60.8 | 5,783 |
| Dyna-Gro | M59GB94 | 64 | 54 | 11 | 0 | 14.9 | 59.2 | 5,097 |

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

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|---|---|---|---|---|---|---|---|---|
| Mean | | 70 | 54 | 5 | 0.0 | 15.2 | 60.3 | 7,354 |
| C.V. % | | 1.1 | 3.5 | 34.7 | | 2.5 | 2.4 | 10.2 |
| P>f (hybrid) | | 0.000 | 0.000 | | | 0.000 | 0.000 | 0.000 |
| L.S.D. | | 1.1 | 2.7 | | | 0.5 | 2.1 | 561.0 |

## Agronomic information

| | |
|---|---|
| Plant Date | 3/1/2022 |
| Harvest Date | 6/27/2022 |
| Irrigated | Yes |
| Row Spacing (in) | 30 |
| Number of Rows | 2 |
| Target Seeds per Acre | 80,000 |
| Precipitation (in) | 9.2 |
| Irrigation (in) | |

Herbicide

Pre-emerge: 2 oz/ac Sharpen + 14 oz/ac Outlook
4/6/22: 2 qt/ac Warrant + 1 qt/ac Atrazine

| | |
|---|---|
| Soil Type | Hidalgo sandy clay loam |
| Tillage | Conventional, beds |
| Previous Crop | Soybean |

## Trial Notes

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

**Cooperator:** Texas AgriScience

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:

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979-845-2935 / 979-845-8505

## Fertilizer Applied

| | |
|---|---|
| N (lb/ac) | 122 |
| P2O5 (lb/ac) | 56 |
| K2O (lb/ac) | 0 |
| S (lb/ac) | 0 |
| Zn (lb/ac) | 0 |

## Soil Analysis Report**

| | | | |
|---|---|---|---|
| NO3-N (ppm) | 15 | pH | 7.8 |
| P (ppm)* | 34 | Conductivity (umho/cm) | 213 |
| K (ppm)* | 381 | Ca (ppm)* | 2,681 |
| S (ppm)* | 34 | Mg (ppm)* | 382 |
| | | Na (ppm)* | 139 |

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