

Monte Alto Full 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 44-07 | 66 | 49 | 7 | 0 | 14.4 | 59.1 | 6,607 |
| DEKALB | DKS 50-07 | 66 | 49 | 5 | 0 | 15.8 | 59.5 | 6,441 |
| Integra | G3665 | 64 | 48 | 6 | 0 | 12.6 | 55.7 | 6,359 |
| DEKALB | DKS 45-60 | 65 | 51 | 11 | 0 | 14.6 | 58.9 | 6,270 |
| Dyna-Gro | GX21965 | 66 | 49 | 5 | 0 | 13.9 | 58.8 | 6,199 |
| DEKALB | DKS 54-07 | 68 | 53 | 5 | 0 | 16.2 | 58.5 | 6,100 |
| Dyna-Gro | GX20970 | 67 | 50 | 7 | 0 | 15.9 | 57.4 | 5,967 |
| Alta Seeds | ADV G2275 | 67 | 46 | 7 | 0 | 19.4 | 57.5 | 5,937 |
| Dyna-Gro | M67GB87 | 65 | 48 | 6 | 0 | 14.1 | 56.5 | 5,930 |
| Dyna-Gro | M72GB71 | 66 | 50 | 6 | 0 | 13.7 | 58.5 | 5,811 |
| Dyna-Gro | M63GB78 | 64 | 48 | 7 | 0 | 13.2 | 56.9 | 5,644 |
| Dyna-Gro | GX20998 | 64 | 49 | 8 | 0 | 13.5 | 57.6 | 5,628 |
| DEKALB | DKS 40-76 | 64 | 46 | 9 | 0 | 13.9 | 57.0 | 5,610 |
| Dyna-Gro | M71GR91 | 68 | 53 | 4 | 0 | 15.1 | 58.9 | 5,451 |
| DEKALB | DKS 36-07 | 62 | 46 | 8 | 0 | 12.9 | 56.6 | 5,339 |
| Integra | G3711 | 68 | 50 | 5 | 0 | 16.0 | 57.9 | 5,208 |
| Texas A&M AgriLife Research | ATx631xRTx436 | 66 | 53 | 6 | 0 | 13.2 | 56.8 | 4,456 |

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



Monte Alto Full 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) |
|------------------------------|------------------------|--|-------------------|-------------------------------|-------------|------------------------|----------------------|--------------------|
| Agronomic information | | Mean | 65 | 49 | 6 | 0.0 | 14.6 | 57.7 |
| Plant Date | 3/5/2021 | C.V. % | 0.8 | 4.0 | 13.8 | | 3.5 | 1.3 |
| Harvest Date | 7/4/2021 | P>f (hybrid) | 0.000 | 0.000 | 0.000 | | 0.000 | 0.000 |
| Irrigated | Yes | L.S.D. | 0.7 | 2.8 | 1.3 | | 0.7 | 1.0 |
| Row Spacing (in) | 30 | Trial Notes | | | | | | |
| Number of Rows | 2 | <p>Cooperator: Texas AgriScience</p> <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 < 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:</p> <p>Dr. Ronnie Schnell / Katrina Horn ronschnell@tamu.edu / khorn@tamu.edu 979-845-2935 / 979-845-8505</p> | | | | | | |
| Seeds per Acre | 80,000 | | | | | | | |
| Precipitation (in) | 13.8 | <p>* Mehlich 3 by ICP, soiltesting.tamu.edu ** Samples collected at planting, some locations may have applied fertilizer</p> | | | | | | |
| Irrigation (in) | 12 | Fertilizer Applied | | Soil Analysis Report** | | | | |
| Herbicide | 3/11: Atrazine + Dual | N (lb/ac) | 171 | NO3-N (ppm) | | pH | | |
| Soil Type | Raymondville clay loam | P2O5 (lb/ac) | 56 | P (ppm)* | | Conductivity (umho/cm) | | |
| Tillage | Conventional | K2O (lb/ac) | 0 | K (ppm)* | | Ca (ppm)* | | |
| Previous Crop | Cotton | S (lb/ac) | 0 | S (ppm)* | | Mg (ppm)* | | |
| | | Zn (lb/ac) | 0 | | | Na (ppm)* | | |

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