



UNIVERSITY of NEBRASKA  
LINCOLN

## Clay County Rainfed 2023 Grain Sorghum Hybrid Trial

| Name                 | Company             | Yield (bu/ac) <sup>1</sup> | Test Weight (lb/bu) | Height (in) | Stand (plants/acre) | Lodging (%) <sup>2</sup> | Bird Damage (%) |
|----------------------|---------------------|----------------------------|---------------------|-------------|---------------------|--------------------------|-----------------|
| <b>GX22937</b>       | DYNAGRO             | <b>119.2</b>               | <b>61.7</b>         | 53.2        | 79,906              | 0                        | 0               |
| <b>M67GB87</b>       | DYNAGRO             | <b>108.8</b>               | 59.6                | 53.2        | 81,250              | 0                        | 1.7             |
| <b>M71GR91</b>       | DYNAGRO             | <b>108.5</b>               | <b>62.1</b>         | 55.8        | 83,709              | 1.7                      | 5.0             |
| <b>GX22932</b>       | DYNAGRO             | <b>107.5</b>               | <b>61.6</b>         | 51.6        | 89,593              | 6.7                      | 5.0             |
| <b>M72GB71</b>       | DYNAGRO             | <b>106.7</b>               | 60.9                | 52.0        | 77,379              | 0                        | 1.7             |
| <b>SP 65M60</b>      | Sorghum Partners    | 102.5                      | 58.6                | 47.0        | 75,895              | 0                        | 0               |
| <b>ADV G2193IG</b>   | Alta Seeds          | 99.0                       | 57.8                | 47.0        | 79,499              | 0                        | 3.3             |
| <b>ADV XG272</b>     | Alta Seeds          | 97.8                       | 59.3                | 51.5        | 69,385              | 0                        | 0.8             |
| <b>M60GB31</b>       | DYNAGRO             | 96.7                       | 60.6                | 47.8        | 79,266              | 0                        | 6.7             |
| <b>SPSD353</b>       | Sorghum Partners    | 96.3                       | 59.8                | 47.5        | 75,553              | 0                        | 0               |
| <b>M63GB78</b>       | DYNAGRO             | 95.6                       | 59.8                | 49.8        | 83,327              | 1.7                      | 13.3            |
| <b>GX22934</b>       | DYNAGRO             | 94.1                       | <b>61.2</b>         | 53.6        | 82,501              | 0                        | 0               |
| <b>AG1301</b>        | Alta Seeds          | 93.5                       | 58.5                | 44.2        | 81,465              | 0                        | 0               |
| <b>SP 45A45 DT</b>   | Sorghum Partners    | 90.9                       | 59.1                | 46.9        | 84,368              | 0                        | 0               |
| <b>Polansky 5512</b> | Polansky Seed, Inc. | 90.7                       | 58.4                | 47.4        | 86,569              | 4.2                      | 4.9             |
| <b>Polansky 5629</b> | Polansky Seed, Inc. | 90.5                       | 57.7                | 48.3        | 85,340              | 0                        | 0               |
| <b>GX22936</b>       | DYNAGRO             | 88.9                       | 60.1                | 47.5        | 81,705              | 0                        | 3.4             |
| <b>M59GB94</b>       | DYNAGRO             | 88.6                       | 59.5                | 52.1        | 89,088              | 0                        | 1.7             |
| <b>Polansky 5522</b> | Polansky Seed, Inc. | 86.5                       | 59.8                | 47.6        | 83,197              | 0                        | 8.3             |
| <b>SP 66M16</b>      | Sorghum Partners    | 86.1                       | 57.6                | 48.0        | 79,984              | 0                        | 4.2             |
| <b>SP 43M80</b>      | Sorghum Partners    | 79.8                       | 56.9                | 46.6        | 74,521              | 0                        | 0               |
| <b>AC2104</b>        | RAGT Semences       | 77.4                       | 55.9                | 51.7        | <b>97,966</b>       | 1.7                      | 19.1            |
| <b>GX22923</b>       | DYNAGRO             | 77.0                       | 56.7                | 47.6        | 82,390              | 1.7                      | 4.2             |
| <b>ADV G1329</b>     | Alta Seeds          | 75.7                       | 56.4                | 38.1        | 75,885              | 8.3                      | 3.4             |
| <b>M60GB88</b>       | DYNAGRO             | 71.5                       | 57.0                | 46.4        | 86,654              | 0                        | 5.0             |
| <b>AC2203</b>        | RAGT Semences       | 70.0                       | 56.6                | 51.1        | <b>95,106</b>       | 2.5                      | 21.7            |
| <b>Polansky 5433</b> | Polansky Seed, Inc. | 67.6                       | 56.1                | 37.7        | 81,665              | 5.0                      | 5.0             |
| <b>AC2103</b>        | RAGT Semences       | 63.0                       | 54.0                | 50.2        | <b>92,923</b>       | 2.5                      | 5.0             |
| <b>Check 2</b>       | NA                  | 54.1                       | 55.8                | 41.8        | 84,188              | 1.7                      | 20.8            |
| <b>Check 1</b>       | NA                  | 51.1                       | 51.5                | 47.5        | <b>94,193</b>       | 14.2                     | 30.0            |

<sup>1</sup> Yield values corrected to 14% moisture. Bolded values indicate highest LSD grouping.

<sup>2</sup> Lodging and bird damage estimates collected as visual percentages just before harvest.

|  |                         | Yield<br>(bu/ac) | Test Weight<br>(lb/bu) | Height<br>(in) | Stand<br>(plants/acre) | Lodging<br>(%) | Bird<br>Damage (%) |
|--|-------------------------|------------------|------------------------|----------------|------------------------|----------------|--------------------|
|  | <b>Standard Error</b>   | 8.1              | 0.7                    | 1.1            | 3,405                  | 3.7            | 5.5                |
|  | <b>LSD<sup>3</sup></b>  | 13.3             | 1.1                    | 1.9            | 5,637                  | 6.1            | 9.1                |
|  | <b>Mean<sup>4</sup></b> | 87.8             | 58.3                   | 48.3           | 83,149                 | 1.7            | 5.8                |
|  | <b>CV<sup>5</sup></b>   | 9.2              | 1.2                    | 2.4            | 4.1                    | --             | --                 |
|  | <b>Reps</b>             | 6                | 6                      | 6              | 6                      | 6              | 6                  |

**SITE INFORMATION**

|                           |  |
|---------------------------|--|
| Collaborator:             | Dennis Fitzke, Edgar, NE   |
| Planting Date:            | May 30, 2023   |
| Seeding Rate:             | 90,000 seeds/acre  |
| Harvest Date:             | October 30, 2023   |
| GPS Coordinates:          | 40.364231, -97.974191  |
| Soil Type:                | Hastings & Crete silt loam   |
| Fertility and Herbicides: | 125 lb/a N and Lexar applied pre-emergence. Post-emergence herbicide application of Huskie and atrazine.   |
| Planting Info:            | Seeded 2" deep into semi-moist soil on 30" centers into no-till corn stubble   |
| Notes on Trial:           | Some lodging and bird damage seen across field area. Bird damage more significant on earlier-maturing hybrids. Overall good stand and yields and moderate test weights. Both checks are early maturing hybrids designed for short-season production, where Check 2 has a slightly later mean flowering date and is shorter in stature. |

Do not reprint without permission. Contacts: [Amanda Easterly](#) or [Cody Creech](#)

<sup>3</sup> For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

<sup>4</sup> Mean performance of all entries in the trial.

<sup>5</sup> Coefficient of Variation (CV) indicates the quality of a trial, and lower than 15 indicates a high-quality trial. For CV>15, there was higher than expected variability in the field or the data and the results should be used with caution.