



2025 Grain Sorghum Trial Zavala County, Texas

Crawford Farms, Helena- Agri, Dekalb, Pioneer, Advanta, and Kelly Green Seeds

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Summary

The grain sorghum variety trial was conducted on Crawford Farms located in La Pryor, Tx. The field is located on US-57, 5.6 miles east of La Pryor, Tx. Rainfall during the growing season was average. This trial was partially irrigated through the growing season.

8 sorghum hybrid varieties were evaluated throughout the growing season. At the time of harvest each variety was weighed, moisture percentages and bushel weights were obtained. The plot average was 3,378 pounds per acre. The crop was valued at \$5.33/cwt at the time of harvest. The top yielding variety in the trial was Dekalb 44-07 with a yield of 3,483 pounds per acre. The lowest yielding variety in the trial was Pioneer 83P38 with a yield of 3,282 pounds per acre.

Objective

The objective of this study was to evaluate the grain sorghum hybrid varieties under semi-irrigated conditions in Zavala County. The data collected in the trial will serve as a reference point for producers deciding on future grain sorghum hybrid varieties.

Materials and Methods

The trial was established on Crawford Farms on April 7, 2025. A John Deere 12 row planter was used to plant the plot at a rate of 38,000 seeds per acre. The soil type in the area is Bookout Clay Loam (0-1% slopes). Twelve rows of each hybrid variety were planted 30 inches apart.

Plots were harvested on August 12, 2025, using a John Deere combine harvester. We weighed each variety using a weigh wagon. We obtained the moisture level and test weight using a Dickey-John Mini GAC Portable Moisture Tester.



Results

Table 1.

Comparison of grain moisture, test weight, and yield.

Company/ Brand Name	Hybrid	% Moisture	Test Weight	Yield (LBS/A)*
Dekalb	44-07	11.7 %	62.2	3483
Kelly Green	2413	11.5 %	61.4	3438
Dekalb	49-76	11.5 %	60.6	3394
Pioneer	85P58	11.8 %	60.3	3377
Pioneer	83P27	11.6 %	60.1	3366
Advanta	1125	11.3 %	59.8	3349
Pioneer	84P94	11.2 %	59.5	3332
Pioneer	83P38	11.6 %	58.6	3282
Average		11.5%	60.3	3378

*Note- Yield (LBS/A) is adjusted to 14% moisture

Conclusions

Rainfall was average for this growing season. We received around 8 inches of rain between planting and harvesting. This sorghum variety trial consisted of 8 hybrid varieties which were partially irrigated throughout the growing season. During harvest we took the weight, moisture percentages, and test weight for each hybrid. Using the market price of \$5.33/cwt. The top yielding variety in the trial was Dekalb 44-07 with a yield of 3,483 pounds per acre. This variety had a gross value of \$185.64. The lowest yielding variety in the trial was Pioneer 83P38 with a yield of 3,282 pounds per acre. This variety had a gross value of \$174.93.



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Photos

