

ARKANSAS CORN AND GRAIN SORGHUM PROMOTION BOARD
END OF YEAR PROGRESS REPORT – JANUARY 2015

Title: Evaluation of White Food Grade Grain Sorghum Hybrids in Arkansas

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Objectives: Determine if white food grade grain sorghums can be grown in Arkansas and evaluate what problems are encountered with production and determine which hybrids perform well in our environment.

Results: Four white food grade grain sorghum hybrids (from Richardson Seeds LTD.) were entered in the Arkansas Grain Sorghum hybrid testing program in 2014 to evaluate yield potential under irrigated (Keiser and Marianna) and Non-Irrigated conditions (Keiser). Sorghum Partners also entered one white seeded, food grade hybrid.

A summary of yields from selected hybrids from the Arkansas Grain Sorghum Hybrid Performance trials in 2014 are shown in Table 1. There were 49 entries in the grain sorghum hybrid testing program in 2014, nearly double the entries compared to past years.

Hybrid	All location Yield Rank	Keiser Irrigated	Keiser Non-Irrigated	Marianna Irrigated	All Location Average
	----- Bu/acre -----				
BH 3822	1	130.2	153.2	152.4	145.3
DEKALB DKS51-01	2	131.3	141.3	159.0	143.9
Pioneer 84P80	2	130.9	141.9	158.6	143.8
REV® RV 9562™	3	133.5	145.7	150.4	143.2
DEKALB DKS53-53	4	129.9	137.8	161.1	142.9
Armor 3197R	5	122.2	133.5	156.1	137.3
REV® RV 9924™	6	127.5	144.8	138.5	136.9
Dyna-Gro 765B	7	121.2	135.9	153.2	136.8
Armor AXM9043	8	132.5	148.7	128.9	136.7
REV® RV 9883™	9	126.5	139.9	140.9	135.8
White 1 304/5	22	129.1	132.8	118.6	126.8
White 3 366/58	41	103.8	107.6	124.3	111.9
White 4 341/10	42	115.7	104.7	112.5	111.0
White 2 315/10	43	96.8	113.5	120.0	110.1
Sorghum Partners NK8828	44	104.7	107.3	113.2	108.4
Trial Mean	24	117.8	128.2	128.3	124.8

Summary: White food grade grain sorghum was successfully grown in 2014. Yields of white seeded hybrids tended to be equal or lower than most red seeded hybrids currently grown. All hybrids produced acceptable grain quality when harvested timely.