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Missouri 2009 Grain Sorghum Performance Tests

This report is a contribution of the Division of Plant Science, University of Missouri College of Agriculture, Food and Natural Resources. The work was supported by fees paid by the companies submitting hybrids for evaluation. The University of Missouri began its performance testing program for grain sorghum hybrids in 1958. The number of commercial entries in the program increased from 40 in 1958 to 134 in 1982. The number has declined during recent years to 25 hybrids in 2009. To select a commercial hybrid intelligently, producers need a reliable, unbiased, up-to-date source of information that will permit valid comparisons among available hybrids. The objective of the University of Missouri's performance testing program is to provide this information. The tests are conducted under as uniform conditions as possible. Small plots are used to reduce the chance of soil and climatic variations occurring from one plot to another. Results obtained should aid the individual grower in judging the relative merits of many of the commercial grain sorghum hybrids available in Missouri today.

Comparing Hybrids

The performance of a hybrid cannot be measured with absolute precision. Uncontrollable variability is involved in the determination of each yield average. This variability sometimes occurs because the soil is not uniform, but many other conditions may contribute to it. Because variability exists in all field experimentation, statistics are used as a tool to assist in making decisions. The statistical tool used in these tests is the test of least significant difference (LSD). The LSD is quite simple to apply. When two entries are compared and the difference between them is greater than the LSD, the entries are judged to be significantly different. Differences smaller than the LSD may have occurred by chance and are judged to be not significant.

Hybrid performance may seem inconsistent from location to location and from year to year because of differences in rainfall, temperature, soil fertility, diseases, insects and other factors. To obtain an improved estimate of relative hybrid performance, results from more than one location or year should be considered. In this publication, the authors have tried to facilitate comparisons across years and locations.

In each test, the "top yielding" hybrids have been identified. These hybrids are those that did not yield significantly less than the highest yielding hybrid in the test. They are denoted in the tables by an asterisk (*) next to their yields. Thus, by going down a column, readers can readily identify the highest yielding hybrids in a test. By going across, readers can evaluate the relative performance of a hybrid during several years or at several locations. From the standpoint of yield, the most desirable hybrids will be those that are among the "top yielding" hybrids (that is, those that have an asterisk) the greatest number of times.

Although yield usually receives first consideration, other agronomic characteristics may be equally important when selecting a grain sorghum hybrid. Moisture content at harvest, stalk strength and resistance to insects and diseases are among the hybrid characteristics that deserve careful consideration. High moisture content at harvest, whether due to later maturity or slow dry-down, may indicate an increased drying requirement. Poor stalk strength or susceptibility to pests may decrease harvestable yield because of lodging or stand loss. Therefore, when selecting a hybrid, producers should also consider the data presented on agronomic characteristics other than yield.

The Missouri Variety Testing Program does not recommend specific hybrids. Farmers growing a new hybrid for the first time should consider the information contained in this report and then grow a small acreage to determine adaptability. This should be the practice for all new hybrids regardless of origin.

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Acknowledgments

The authors recognize and express their appreciation to the following individuals for their part in making the 2009 grain sorghum performance tests possible: Bud and Ron Beetsma, Mooresville; Randy Smoot, superintendent, Greenley Memorial Center, Novelty; Tim Reinbott, superintendent, Bradford Research and Extension Center, Columbia; Kenny Tevis, Hughesville; Clark and Caleb Wood, Sheldon; Eddie Marshall, Charleston; and Jake Fisher, superintendent, Delta Research Center, Portageville.

Experimental Procedures

Entries: All producers of hybrid seed were eligible to enter hybrids in the 2009 evaluation tests. Participation was voluntary. The testing coordinator exercised no control over which hybrids or how many hybrids were entered. However, to help finance the evaluation program, a fee of \$100 per location was charged for each hybrid entered by the seed producer.

Plot Management: The test plots were planted and harvested with equipment designed for small-plot work. Row spacing for grain sorghum tests in the Central/West Region was 15 inches. Row spacing for grain sorghum tests in the Southeast Region was 30 inches. Seeding rate for the 15- and 30-inch row spacing was 122,000 seeds/acre. Fertilizer was applied at each site at the discretion of the farmer. Herbicides were used for weed control, and plots were hand-weeded as necessary. Management details varied from location to location and are specified in the regional crop management summaries.

Data Recorded: Agronomic characteristics were evaluated at harvest. Lodging was taken immediately before harvest. Interpretation of the scale is as follows: 1 = all plants erect, 3 = all plants leaning moderately or 20% to 50% down, 5 = all plants down. Yield is measured in bushels (56 pounds) per acre at a moisture content of 14.0%. An electronic moisture tester is used for all moisture readings.

Accessibility of Data: The results of the 2009 Crop performance tests are also available online at <http://varietytesting.missouri.edu>. If you need assistance in accessing the system, call 573-882-4827 for help.

Field Plot Design: Statistical designs used to analyze the field data included randomized lattice with three replications and randomized complete block with four replications, depending on the size of the test. Individual plots were four rows wide. Row length was 25 feet for both 15- and 30-inch row spacing. All four rows of each plot were harvested for the 15-inch row spacing test, and only the center two rows of each plot were harvested for the 30-inch row spacing to determine yield.

Locations

On the basis of geographical characteristics, the state is divided into regions. Grain sorghum hybrid evaluation tests are located in the Central/West and Southeast Regions of the state. In 2009, the locations for these tests were as follows:

Central/West

1. Beetsma farm, Mooresville (Livingston Co.)
2. Greenley Memorial Center, Novelty (Knox Co.)
3. Bradford Research & Ext. Center, Columbia (Boone Co.)
4. Kenny Tevis farm, Hughesville (Pettis Co.)
5. Clark and Caleb Wood, Sheldon (Barton Co.)

Southeast

6. Eddie Marshall, Charleston (Mississippi Co.)
7. Delta Research Center (Clay and Loam), Portageville (Pemiscot Co.)



Central/West Crop Management Summary

There are five locations in the Central/West Region for the Grain Sorghum Test. They are located in counties where a significant number of acres of grain sorghum are grown according to the Missouri Agricultural Statistics Service. Cultural practices vary slightly between locations but tend to reflect those followed by farmers in the area.

Planting was delayed beyond the optimum time at four of the five sites in the Central/West Region of the state because of wet field conditions. Rainfall was above normal for the growing season, and temperatures were below normal, contributing to average or below average grain yields. Harvest was delayed until November at all sites because of the wet fall. The average yield across all five locations was 102 bushels per acre.

Climatological information for the growing season (May 1 – September 30) for the Central/West Region is summarized below and cultural practices for each site are listed in Table 1.

Average temperature = 70.0 degrees, 1.7 degrees below normal

Average precipitation = 25.2", 3.8" above normal

Table 1. Central/West Region Crop Management Summary

Location	Planting	Harvest				Tillage	Herbicide	
	date	date	N	P ₂ O ₅	K ₂ O		Pre	Post
<i>Standard Grain Sorghum Tests</i>								
Mooresville	06-26	11-23	120	20	0	Conventional	Dual II Mag, Atrazine	None
Novelty	06-02	11-05	175	70	70	No-Till	Dual II Mag, Atrazine, Roundup PowerMax	None
Columbia	06-24	11-24	105	0	0	No-Till	Dual II Mag, Atrazine, Roundup PowerMax	None
Hughesville	05-21	11-02	135	50	40	Conventional	Guardsman	None
Sheldon	06-09	11-30	170	50	65	Conventional	Dual II Mag, Atrazine	None

TABLE 2. Standard Grain Sorghum Test

Central/West Region: Mooresville, MO (Livingston County)

Soil Type: Grundy Silt Loam Soil Test: pH=5.3, OM=2.6%, P=80, K=368

Rainfall: May=4.0, June=7.4, July=3.7, Aug.=13.7, Sept.=0.9 Total=29.7

Brand-Variety	Seed Treatment ⁺	2009			Yield		2 Yr. Mean
		Moisture (%)	Plant Height (in)	Lodging	2009	2008	
Asgrow A571	6, 7	9.3	58	1	106.5**	119.9	113.2
DEKALB DKS36-06	6, 7	9.6	58	1	95.1	--	--
DEKALB DKS54-00	6, 7	10.2	57	1	85.6	128.0	106.8
Garst 5613	5	9.6	49	1	85.0	--	--
DEKALB DKS53-67	6, 7	10.6	56	1	79.6	142.8**	111.2
DEKALB DKS44-20	6, 7	11.6	52	1	72.2	124.5	98.4
DEKALB DKS37-07	6, 7	10.3	53	1	71.4	113.4	92.4
Garst 5308	5	11.1	56	1	69.0	--	--
DEKALB DKS54-03	6, 7	9.7	56	1	69.0	140.2*	104.6
Garst 5556	5	14.4	52	1	68.0	--	--
Garst 5464	5	9.8	55	1	61.8	134.8*	98.3
TEST AVERAGE		10.6	55	1	78.5	127.7	103.1
L.S.D. AT .10		0.8			10.8	10.1	
C.V. %		6.1			11.5	6.7	

-- Data not available.

** Highest yielding hybrid in the test.

* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Captan; 4= Concep III (Fluxofenin)5= Cruiser (Thiamethoxam); 6= Gaucho (Imidacloprid); 7= Lorsban 30 (Chlorpyrifos); 8= Maxim (Fludioxonil); 9= Maxim XL (Fludioxonil); 10= Poncho 250 (Clothianidin)

TABLE 3. Standard Grain Sorghum Test

Central/West Region: Novelty, MO (Knox County)

Soil Type: Putnam Silt Loam Soil Test: pH=4.9, OM=2.6%, P=60, K=398

Rainfall: May=6.7, June=5.7, July=4.2, Aug=6.6, Sept=3.4 Total=26.6

Brand-Variety	Seed Treatment ⁺	2009			Yield		2 Yr. Mean
		Moisture (%)	Plant Height (in)	Lodging	2009 -----bu/acre-----	2008	
Garst 5613	5	11.5	53	1	127.2**	--	--
DEKALB DKS54-00	6, 7	10.5	57	1	117.7*	120.5	119.1
Garst 5556	5	14.5	50	1	115.2	--	--
DEKALB DKS36-06	6, 7	11.3	53	1	114.2	--	--
DEKALB DKS44-20	6, 7	12.8	55	1	112.3	116.4	114.4
DEKALB DKS37-07	6, 7	11.6	58	1	109.6	116.5	113.1
Garst 5308	5	12.8	58	1	109.2	--	--
DEKALB DKS54-03	6, 7	11.4	57	1	103.2	129.6	116.4
DEKALB DKS53-67	6, 7	13.6	57	1	101.3	132.3*	116.8
Asgrow A571	6, 7	10.5	60	1	101.0	120.5	110.8
Garst 5464	5	12.7	55	1	94.5	123.8	109.2
TEST AVERAGE		12.1	56	1	109.6	120.2	114.9
L.S.D. AT .10		1.1			10.2	9.9	
C.V. %		7.6			7.7	7.0	

-- Data not available.

** Highest yielding hybrid in the test.

* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Captan; 4= Concep III (Fluxofenin)5= Cruiser (Thiamethoxam); 6= Gaucho (Imidacloprid); 7= Lorsban 30 (Chlorpyrifos); 8= Maxim (Fludioxonil); 9= Maxim XL (Fludioxonil); 10= Poncho 250 (Clothianidin)

TABLE 4. Standard Grain Sorghum Test

Central/West Region: Columbia, MO (Boone County)

Soil Type: Mexico Silt Loam Soil Test: pH=6.1, OM=2.0%, P=60, K=392

Rainfall: May=5.1, June=5.6, July=5.0, Aug.=4.0, Sept.=2.9 Total=22.6

Brand-Variety	Seed Treatment ⁺	2009			Yield		
		Moisture (%)	Plant Height (in)	Lodging	2009	2008	2 Yr. Mean
DEKALB DKS36-06	6, 7	13.1	53	1	100.8**	--	--
Garst 5556	5	13.9	56	1	93.9*	--	--
Garst 5613	5	11.8	49	1	92.5	--	--
DEKALB DKS37-07	6, 7	11.2	50	1	88.5	93.2*	90.9
DEKALB DKS44-20	6, 7	12.6	57	1	87.3	76.9	82.1
Garst 5464	5	12.0	54	1	86.0	83.0	84.5
Asgrow A571	6, 7	10.2	55	1	82.7	60.1	71.4
DEKALB DKS54-00	6, 7	11.9	60	1	82.6	84.3	83.5
Garst 5308	5	12.4	51	1	80.1	--	--
DEKALB DKS53-67	6, 7	13.0	58	1	74.8	82.7	78.8
DEKALB DKS54-03	6, 7	14.0	57	1	68.5	82.3	75.4
TEST AVERAGE		12.4	55	1	85.2	81.4	83.3
L.S.D. AT .10		1.6			7.5	15.0	
C.V. %		10.5			7.3	15.5	

-- Data not available.

** Highest yielding hybrid in the test.

* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Captan; 4= Concep III (Fluxofenin)5= Cruiser (Thiamethoxam); 6= Gaucho (Imidacloprid); 7= Lorsban 30 (Chlorpyrifos); 8= Maxim (Fludioxonil); 9= Maxim XL (Fludioxonil); 10= Poncho 250 (Clothianidin)

TABLE 5. Standard Grain Sorghum Test

Central/West Region: Hughesville, MO (Pettis County)

Soil Type: Arispe Silt Loam Soil Test: pH=6.2, OM=2.4%, P=70, K=208

Rainfall: May=6.4, June=6.8, July=4.6, Aug.=2.8, Sept.=3.6 Total=23.4

Brand-Variety	Seed Treatment ⁺	2009			Yield		
		Moisture (%)	Plant Height (in)	Lodging	2009	2008	2 Yr. Mean
DEKALB DKS36-06	6, 7	13.8	62	1	129.6**	--	--
Asgrow A571	6, 7	13.0	58	1	122.7	109.3	116.0
Garst 5308	5	13.6	57	1	121.0	--	--
Garst 5613	5	12.6	63	1	117.5	--	--
DEKALB DKS53-67	6, 7	14.3	58	1	115.8	118.1*	117.0
DEKALB DKS37-07	6, 7	13.4	58	1	112.7	101.5	107.1
Garst 5464	5	12.8	63	1	110.2	114.6*	112.4
DEKALB DKS54-03	6, 7	12.1	54	1	110.1	120.3**	115.2
Garst 5556	5	14.8	52	1	109.9	--	--
DEKALB DKS54-00	6, 7	12.8	61	1	109.7	117.4*	113.6
DEKALB DKS44-20	6, 7	12.8	60	1	108.5	109.3	108.9
TEST AVERAGE		13.3	59	1	115.2	107.4	111.3
L.S.D. AT .10		1.0			NS	9.5	
C.V. %		6.5			9.6	7.4	

-- Data not available.

** Highest yielding hybrid in the test.

* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Captan; 4= Concep III (Fluxofenin)5= Cruiser (Thiamethoxam); 6= Gaucho (Imidacloprid); 7= Lorsban 30 (Chlorpyrifos); 8= Maxim (Fludioxonil); 9= Maxim XL (Fludioxonil); 10= Poncho 250 (Clothianidin)

TABLE 6. Standard Grain Sorghum Test

Central/West Region: Sheldon, MO (Barton County)

Soil Type: Opolis Silt Loam Soil Test: pH=5.6, OM=1.7%, P=16, K=152

Rainfall: May=6.4, June=6.7, July=5.4, Aug.=2.6, Sept.=6.0 Total=27.1

Brand-Variety	Seed Treatment ⁺	2009			Yield		
		Moisture (%)	Plant Height (in)	Lodging	2009	2008	2 Yr. Mean
DEKALB DKS53-67	6, 7	14.2	56	1	137.2**	86.1	111.7
Garst 5308	5	14.8	55	1	132.3	--	--
DEKALB DKS36-06	6, 7	14.6	59	1	131.8	--	--
Garst 5556	5	15.1	53	1	129.2	--	--
Asgrow A571	6, 7	13.3	56	1	127.9	91.0	109.5
DEKALB DKS44-20	6, 7	15.0	53	1	126.0	102.2**	114.1
DEKALB DKS54-00	6, 7	14.2	62	1	118.2	73.2	95.7
DEKALB DKS54-03	6, 7	14.3	55	1	116.4	76.9	96.7
Garst 5613	5	14.6	53	1	114.0	--	--
DEKALB DKS37-07	6, 7	14.6	50	1	113.7	100.6*	107.2
Garst 5464	5	14.7	59	1	110.8	85.5	98.2
TEST AVERAGE		14.5	56	1	123.4	88.2	105.8
L.S.D. AT .10		NS			NS	10.9	
C.V. %		8.3			7.6	10.4	

-- Data not available.

** Highest yielding hybrid in the test.

* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Captan; 4= Concep III (Fluxofenin)5= Cruiser (Thiamethoxam); 6= Gaucho (Imidacloprid); 7= Lorsban 30 (Chlorpyrifos); 8= Maxim (Fludioxonil); 9= Maxim XL (Fludioxonil); 10= Poncho 250 (Clothianidin)

TABLE 7. Performance of Standard Hybrids evaluated at Five Central/West Missouri locations (Mooresville, Novelty, Columbia, Hughesville, Sheldon) during 2009.

<u>Mooresville</u> Planted: 06-26 Harvested: 11-23 Growing Season Rainfall: 29.7	<u>Novelty</u> Planted: 06-02 Harvested: 11-05 Growing Season Rainfall: 26.6	<u>Columbia</u> Planted: 06-24 Harvested: 11-24 Growing Season Rainfall: 22.6
<u>Hughesville</u> Planted: 05-21 Harvested: 11-02 Growing Season Rainfall: 23.4	<u>Sheldon</u> Planted: 06-09 Harvested: 11-30 Growing Season Rainfall: 27.1	

Brand-Hybrid	Yield (Bu/Acre)					Mean
	Mooresville	Novelty	Columbia	Hughesville	Sheldon	
Standard						
DEKALB DKS36-06	95.1	114.2	100.8**	129.6**	131.8	114.3**
Asgrow A571	106.5**	101.0	82.7	122.7	127.9	108.2
Garst 5613	85.0	127.2**	92.5	117.5	114.0	107.2
Garst 5556	68.0	115.2	93.9*	109.9	129.2	103.2
DEKALB DKS54-00	85.6	117.7*	82.6	109.7	118.2	102.8
Garst 5308	69.0	109.2	80.1	121.0	132.3	102.3
DEKALB DKS53-67	79.6	101.3	74.8	115.8	137.2**	101.7
DEKALB DKS44-20	72.2	112.3	87.3	108.5	126.0	101.3
DEKALB DKS37-07	71.4	109.6	88.5	112.7	113.7	99.2
DEKALB DKS54-03	69.0	103.2	68.5	110.1	116.4	93.4
Garst 5464	61.8	94.5	86.0	110.2	110.8	92.6
TEST AVERAGE	78.5	109.6	85.2	115.2	123.4	102.4
L.S.D. AT .10	10.8	10.2	7.5	NS	NS	4.9
C.V. %	11.5	7.7	7.3	9.6	7.6	8.7

** Highest yielding hybrid in the test.

* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.

Note: To view seed treatments for these hybrids refer to the location table or the characteristics chart.

Southeast Region Crop Management Summary

There are three locations in the Southeast Region for the Grain Sorghum Test. They are located in counties where a significant number of acres of grain sorghum are grown according to the Missouri Agricultural Statistics Service. Cultural practices vary slightly between locations but tend to reflect those followed by farmers in the area.

Rainfall was above normal this year in the Southeast Region, and temperatures were slightly below normal. The Charleston site was harvested late because of continued wet field conditions; yields there averaged 133 bushels per acre. Considerable bird damage at the two Portageville sites contributed to significant variation across the tests, and that information was not published.

Climatological information for the growing season (May 1 – September 30) for the Southeast Region is summarized below and cultural practices for each site are listed in Table 7.

Average temperature = 73.4 degrees, 0.7 degrees below normal

Average precipitation = 22.6", 3.5" above normal

Table 8. Southeast Region Crop Management Summary

Location	Planting date	Harvest date	Fertilizer			Tillage	Herbicide	
			N	P ₂ O ₅	K ₂ O		Pre	Post
<i>Standard Grain Sorghum Tests</i>								
Charleston	05-22	11-09	140	0	0	Conventional	Dual II Mag, Atrazine	None
Portageville Loam	05-19	09-10	125	0	0	Conventional	Dual II Mag, Atrazine	None
Portageville Clay	05-19	09-10	125	0	0	Conventional	Dual II Mag, Atrazine	None

TABLE 9. Standard Grain Sorghum Test

Southeast Region: Charleston, MO (Mississippi County)

Soil Type: Sikeston Loam Soil Test: pH=7.3 , OM=1.9 % , P=174 , K=680

Rainfall: May=7.4, June=4.5, July=5.3, Aug.=3.0, Sept.=3.8 Total=24.0

Irrigation: 0 in.

Brand-Variety	Seed Treatment ⁺	2009			Yield		
		Moisture (%)	Plant Height (in)	Lodging	2009	2007	2 Yr. Mean
		-----bu/acre-----					
Garst 5556	5	12.8	60	1	150.9**	--	--
Dyna-Gro 771B	1	12.0	54	1	146.7*	141.7	144.2
Dyna-Gro 778B	1, 5	12.6	67	1	141.8*	140.6	141.2
Pioneer 83G66	2, 5, 6	11.8	57	1	140.9*	--	--
Golden World GW1445	1, 3, 7	11.2	52	1	139.8*	148.9	144.4
DEKALB DKS54-03	6, 7	11.0	60	1	138.4*	--	--
Dyna-Gro GXO8170	3, 7	12.4	60	1	138.1*	--	--
Garst 5308	5	11.6	57	1	138.0*	--	--
DEKALB DKS36-06	6, 7	11.4	60	1	137.4*	--	--
Garst 5464	5	12.0	60	1	136.7	154.7*	145.7
Dyna-Gro 751B	1	11.7	60	1	136.1	135.3	135.7
Dyna-Gro GXO7664	1	11.6	51	1	135.8	--	--
Dyna-Gro 772B	1, 5	12.2	58	1	134.8	145.1	140.0
DEKALB DKS53-67	6, 7	12.6	53	1	134.5	149.7	142.1
Crow's 56B88	7	11.0	60	1	134.2	--	--
Pioneer 84G62	2, 5, 6	11.8	52	1	132.1	159.7*	145.9
DEKALB DKS37-07	6, 7	11.6	57	1	130.8	157.9*	144.4
Golden World GW1488	1, 3, 7	11.0	54	1	130.0	140.4	135.2
DEKALB DKS44-20	6, 7	12.0	60	1	127.1	--	--
Garst 5613	5	10.8	60	1	123.4	--	--
DEKALB DKS54-00	6, 7	11.4	62	1	123.1	131.2	127.2
FFR X03-55	1, 3, 4, 9	11.1	54	1	121.8	--	--
Asgrow A571	6, 7	10.5	60	1	119.7	--	--
Dyna-Gro 780B	1	11.2	67	1	114.2	131.3	122.8
FFR 322	1, 3, 4, 9	12.0	58	1	113.4	151.9*	132.7
TEST AVERAGE		11.7	58	1	132.8	144.1	138.5
L.S.D. AT .10		0.8			13.9	11.6	
C.V. %		4.2			5.3	5.4	

-- Data not available.

** Highest yielding hybrid in the test.

* Hybrid which did not yield significantly less than the highest yielding hybrid in the test.

+ Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Captan; 4= Concep III (Fluxofenin)5= Cruiser (Thiamethoxam); 6= Gaucho (Imidacloprid); 7= Lorsban 30 (Chlorpyrifos); 8= Maxim (Fludioxonil); 9= Maxim XL (Fludioxonil); 10= Poncho 250 (Clothianidin)

Characteristics and Table Numbers for Grain Sorghum Hybrids

Brand Hybrid	Seed Trt	Mat Days	Gr Color	Special Traits	Gr Bug	Tables
Asgrow A571	6, 7	72	BZ	-	NONE	2, 3, 4, 5, 6, 7, 9
Crow's 56B88	7	70	BZ	-	NA	9
DEKALB DKS36-06	6, 7	61	BZ		NA	2, 3, 4, 5, 6, 7, 9
DEKALB DKS37-07	6, 7	62	BZ	-	C, E, I	2, 3, 4, 5, 6, 7, 9
DEKALB DKS44-20	6, 7	67	BZ	-	NA	2, 3, 4, 5, 6, 7, 9
DEKALB DKS53-67	6, 7	71	BZ	-	C, E, I	2, 3, 4, 5, 6, 7, 9
DEKALB DKS54-00	6, 7	74	BZ	-	E, I	2, 3, 4, 5, 6, 7, 9
DEKALB DKS54-03	6, 7	74	BZ	-	NA	2, 3, 4, 5, 6, 7, 9
Dyna-Gro 751B	1	69	BZ	-	C, E	9
Dyna-Gro 771B	1	68	BZ	-	-	9
Dyna-Gro 772B	1, 5	68	BZ	-	C, E	9
Dyna-Gro 778B	1, 5	74	BZ	-	C, E	9
Dyna-Gro 780B	1	70	BZ	-	C, E	9
Dyna-Gro GXO7664	1	64	BZ	-	-	9
Dyna-Gro GXO8170	3, 7	68	BZ	-	-	9
FFR 322	1, 3, 4, 9	64	R	-	E	9
FFR X03-55	1, 3, 4, 9	66	R		NA	9
Garst 5308	5	71	BZ		-	2, 3, 4, 5, 6, 7, 9
Garst 5464	5	69	BZ	-	C, E	2, 3, 4, 5, 6, 7, 9
Garst 5556	5	67	R		C	2, 3, 4, 5, 6, 7, 9
Garst 5613	5	65	BZ		C, D, E	2, 3, 4, 5, 6, 7, 9
Golden World GW1445	1, 3, 7	61	R	-	-	9
Golden World GW1488	1, 3, 7	63	BZ	Downy Mildew	-	9
Pioneer 83G66	2, 5, 6	72	R	-	-	9
Pioneer 84G62	2, 5, 6	72	BZ	-	-	9

Descriptions provided by companies submitting hybrids for evaluation

Seed Treatments: 1= Allegiance (Metalaxyl); 2= Apron XL (Mefenoxam); 3= Captan; 4= Concep III (Fluxofenin)5= Cruiser (Thiamethoxam); 6= Gaucho (Imidacloprid); 7= Lorsban 30 (Chlorpyrifos); 8= Maxim (Fludioxonil); 9= Maxim XL (Fludioxonil); 10= Poncho 250 (Clothianidin)

Maturity: Days to 50% bloom

Grain Color: BZ=bronse, R=red, W=white

Green Bug: Green bug biotype resist: C,D,E,I

Traits: Special Traits

Sources for Grain Sorghum Hybrids

Brand	Company and Address	Phone	Web Site
Asgrow	Monsanto, 7159 N 247th W, Mt. Hope, KS 67108	316-445-2290	monsanto.com
Crow's	Crows, PO Box 157, Kentland, IN 47951	800-331-7201	crowshybrid.com
Dekalb	Monsanto, 7159 N 247th St W, Mt. Hope, KS 67108	316-445-2290	monsanto.com
Dyna Gro	Crop Production Ser, 57 Germantown Ct, Ste 200, Cordova, TN 38018	901-755-7566	uap.com
FFR	FFR Seed, 969 Cloverleaf Dr, Southaven, MS 38671	901-652-0903	ourcoop.com
Garst	Syngenta Seeds, 7500 Olsen Memorial Hwy, Golden Valley, MN 55427	402-616-6534	syngenta.com
Golden World	Crosbyton Seed Co., 306 E Main, PO Box 429, Crosbyton, TX 79322	806-675-2308	crosbytonseed.com
Pioneer	Pioneer Hi-Bred International, 700 Blvd S, Ste 302, Huntsville, AL 35802	800-331-2475	pioneer.com