Tifton, Georgia: Early-Planted Grain Sorghum Hybrid Performance, 2010 Nonirrigated

			2-Year						
Company or			Average	Test	50%	Plant			Bird
Brand Name	Hybrid	Yield ¹	Yield	Wt.	Bloom ²	Ht.	Lodging	Disease ³	Damage ⁴
		bu/acre	bu/acre	lb/bu	days	in	%	rating	%
DeKalb	DKS53-67	94.8	95.3	55.6	75	40	18	2	26
DeKalb	DKS54-00	90.5	88.5	51.9	76	46	8	1.8	25
DeKalb	DKS54-03	89.3	77.7	51.1	79	43	0	2	25
Pioneer	83P17	88.4		52.5	77	45	8	2	24
SS	SS800	84.6	83.8	50.1	74	39	0	2	24
DeKalb	DKS44-20	82.8	84.3	53.8	72	41	18	2.3	37
Pioneer	83G66	76.5	76.5	54.4	72	43	21	2.3	27
Advanta	Ad 26056	72.9		55.1	72	40	0	2.3	30
SS	SS650	70.7	75.5	52.7	75	41	5	2.5	37
Advanta	GW 1489	68.4		53.9	73	42	20	2.3	29
Southern States	SS560	67.8	68.0	56.3	68	39	2	2	31
DeKalb	DKS49-45	67.2	00.0	50.7	75	41	23	2	35
Alta Seeds	AG3201	63.9		51.3	72	39	0	2.3	28
Asgrow	A571	62.5	65.3	51.6	70	39	15	2.3	25
Average		77.2 4	79.4	52.9	74	41	10	2.1	29
LSD at 10% Level		12.2	13.2	1.7	4	3	N.S. ⁵	N.S.	N.S.
Std. Err. of Entry M	lean	5.1	5.6	0.7	2	1	7	0.2	5

1. Yields calculated at 14% moisture.

2. Days from planting to 50% bloom.

- 3. Rated 1 = resistant to 5 = susceptible to foliar diseases.
- 4. Percent of grain head damaged.
- 5. CV = 13.3% and df for EMS = 39.
- 6. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	April 15, 2010.
Harvested:	August 5, 2010.
Seeding Rate:	140,000 seed/acre in 30" rows.
Soil Type:	Tifton loamy sand.
Soil Test:	P = Medium, K = Medium, and pH = 6.3.
Fertilization:	Preplant: 25 lb N, 50 lb P_2O_5 , and 75 lb K_2O /acre. Sidedress: 140 lb N/acre.
Previous Crop:	Peanuts.
Management:	Disked, subsoiled and bedded, rototilled; Atrazine and Basagran used for weed control; Lorsban used for insect control; Telone II used for nematode control.

Test conducted by A. Coy, R. Brooke and D. Dunn.

	Nonirrigated								
Company or Brand Name	Hybrid	Yield ¹	2-Year Average Yield	Test Wt.	50% Bloom ²	Plant Ht.	Lodging	Disease ³	Bird Damage ⁴
		bu/acre	bu/acre	lb/bu	days	in	%	rating	%
Pioneer DeKalb	83P17 DKS44-20	109.8 96.5	65.3	54.2 51.2	61 60	47 43	0 0	2.0 2.0	26 29
Pioneer DeKalb Advanta	83G66 DKS54-00 Ad 22612	92.9 85.7 83.9	70.0 66.4	45.2 48.6 43.4	57 66 58	46 51 45	0 0 8	2.0 2.0 2.5	44 21 45
DeKalb DeKalb Asgrow SS Advanta	DKS53-67 DKS49-45 A571 SS800 GW 1467	80.1 78.2 73.5 70.4 65.6	61.1 58.4 55.6	49.3 43.1 47.6 42.2 45.3	58 62 59 55 57	45 48 41 39 40	0 0 4 5	2.0 2.0 2.3 2.5	22 31 24 38 39
Alta Seeds DeKalb Southern States Advanta SS	AG3201 DKS54-03 SS560 Ad 26056 SS650	57.4 52.7 50.8 46.6 43.1	51.6 41.4 34.1	41.5 41.1 43.4 40.8 48.2	55 64 49 57 57	38 47 35 40 44	0 4 0 5 28	2.0 2.3 2.0 2.5 3.0	38 23 47 29 29
Advanta	GW 1489	32.3		46.5	63	44	16	3.0	20
Average LSD at 10% Level Std. Err. of Entry I	Mean	70.0 ⁵ 9.6 4.0	56.0 15.6 7.6	45.7 3.6 1.5	59 3 1	43 3 1	4 7 3	2.3 0.4 0.2	32 10 4

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1. Yields calculated at 14% moisture.

2. Days from planting to 50% bloom.

- 3. Rated 1 =resistant to 5 =susceptible to foliar diseases.
- 4. Percent of grain head damaged.
- 5. CV = 11.6% and df for EMS = 45.
- 6. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	June 15, 2010.
Harvested:	October 7, 2010.
Seeding Rate:	140,000 seed/acre in 30" rows.
Soil Type:	Tifton loamy sand.
Soil Test:	P = Medium, K = Medium, and pH = 6.3.
Fertilization:	Preplant: 25 lb N, 50 lb P ₂ O ₅ , and 75 lb K ₂ O/acre. Sidedress: 125 lb N/acre.
Previous Crop:	Peanuts.
Management:	Subsoiled, bedded, and rototilled; Basagran used for weed control;
	Lorsban used for insect control.

Test conducted by A. Coy, R. Brooke and D. Dunn.

Plains, Georgia: Early-Planted Grain Sorghum Hybrid Performance, 2010 Nonirrigated

			2-Year	-					
Company or			Average	Test	50%	Plant			Bird
Brand Name	Hybrid	Yield ¹	Yield	Wt.	Bloom ²	Ht.	Lodging	Disease ³	Damage ⁴
	•	bu/acre	bu/acre	lb/bu	days	in	%	rating	%
Asgrow	A571	103.6	63.9	58.7	62	50	0	1.0	0
DeKalb	DKS53-67	101.9	77.0	61.9	64	51	0	1.0	0
DeKalb	DKS44-20	99.3	66.1	60.3	61	53	0	1.0	0
DeKalb	DKS49-45	95.7		60.8	62	55	0	1.0	0
Alta Seeds	AG3201	95.3		59.4	60	51	0	1.0	0
SS	SS650	Q1 1	50.4	59.8	65	56	0	1.0	0
Advanta	Ad 26056	90.1	00.4	59.8	60	45	0	1.0	0
DeKalh	DKS54-03	87.9	56 9	58.6	67	56	0	1.0	0
Pioneer	83P17	87.4	00.0	58.2	69	56	0	1.0	0 0
Pioneer	83G66	86.8	51.1	60.0	65	57	0	1.0	0
Dellet		05.4	50.0	50 F	00	50	0	4.0	0
Dekalb	DKS54-00	85.1	59.2	58.5	68	56	0	1.0	0
Southern States	88560	81.4	46.9	61.4	58	41	0	1.0	0
SS	SS800	81.0	48.7	58.3	61	48	0	1.0	0
Advanta	GW 1489	78.3	•	59.6	64	54	0	1.0	0
Average		90.3 ⁴	57.8	59.7	63	52	0	1.0	0
LSD at 10% Level		8.1	19.0	0.7	2	3	-	-	-
Std. Err. of Entry N	lean	3.4	8.0	0.3	1	1	-	-	-

1. Yields calculated at 14% moisture.

2. Days from planting to 50% bloom.

3. Rated 1 =resistant to 5 =susceptible to foliar diseases.

4. Percent of grain head damaged.

5. CV = 7.5% and df for EMS = 39.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	April 20, 2010.
Harvested:	August 3, 2010.
Seeding Rate:	140,000 seed/acre in 30" rows.
Soil Type:	Greenville sandy loam.
Soil Test:	P = Medium, K = Medium, and pH = 5.5
Fertilization:	Preplant: 100 lb N, 25 lb P ₂ O ₅ , and 25 lb K ₂ O/acre. Sidedress: 50 lb N/acre.
Previous Crop:	Soybeans.
Management:	Disked, chisel plowed and rototilled; Atrazine used for weed control.

Test conducted by A. Coy, R. Brooke, D. Dunn and R. Pines.

The Georgia Agricultural Experiment Stations College of Agricultural and Environmental Sciences

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Grain sorghum varieties were planted at this location on June 15, 2010. However, extensive damage from high temperatures and drought caused very low yields and considerable variation in performance amoung plots within the test. After careful analysis and review of this data, it is the opinion of the editors that the results of this trial may not accurately reflect the performance potential of all test entries. Since this data could be misleading if used in making decisions concerning variety selection, we have chosen not to present them in this publication.

Griffin, Georgia: Early-Planted Grain Sorghum Hybrid Performance, 2010 Nonirrigated

			2-Year					
Company or			Average	Test	50%	Plant		Bird
Brand Name	Hybrid	Yield ¹	Yield	Wt.	Bloom ²	Ht.	Lodging	Damage ³
		bu/acre	bu/acre	lb/bu	days	in	%	%
DeKalb	DKS53-67	54.1	58.5	60.1	72	39	0	1
Pioneer	83G66	51.5	55.6	57.4	72	41	0	4
Pioneer	83P17	50.0		57.4	76	43	0	4
DeKalb	DKS44-20	46.6	51.6	56.9	71	39	0	3
DeKalb	DKS54-03	44.5	56.1	56.7	77	44	0	9
DeKalb	DKS49-45	43.7		58.1	73	43	0	1
Alta Seeds	AG3201	41.8		55.7	73	39	0	6
Advanta	Ad 26056	39.4		57.3	73	37	0	5
Asgrow	A571	38.4	57.1	52.0	74	36	0	3
SS	SS650	32.2	44.5	56.2	74	41	0	5
Advanta	GW 1489	32.0		56.6	72	38	0	8
DeKalb	DKS54-00	31.8	46.0	57.7	79	39	0	8
Southern States	SS560	31.3	40.9	54.0	67	29	0	24
SS	SS800	27.8	39.8	53.9	73	34	0	8
Average		40.4 ⁴	50	56.4	73	38	0	6
LSD at 10% Level		10.7	N.S. ⁵	1.0	2	3	-	7
Std. Err. of Entry Me	ean	4.5	5.8	0.4	1	1	-	3

1. Yields calculated at 14% moisture.

2. Days from planting to 50% bloom.

3. Percent of grain head damaged.

4. CV = 22.2% and df for EMS = 39.

5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

Planted:	May 13, 2010.
Harvested:	September 2, 2010.
Seeding Rate:	100,000 seed/acre in 30" rows.
Soil Type:	Cecil sandy loam.
Soil Test:	P = High, K = High, and pH = 6.8.
Fertilization:	Preplant: 28 lb N, 56 lb P ₂ O ₅ , and 84 lb K ₂ O/acre. Sidedress: 100 lb N/acre.
Previous Crop:	Soybeans.
Management:	Chisel plowed, disked, rototilled; two cultivations used for weed control.

Test conducted by J. Gassett and G. Ware.

Griffin, Georgia: Late-Planted Grain Sorghum Hybrid Performance, 2010 Nonirrigated

			2-Year					
Company or			Average	Test	50%	Plant		Bird
Brand Name	Hybrid	Yield ¹	Yield	Wt.	Bloom ²	Ht.	Lodging	Damage ³
		bu/acre	bu/acre	lb/bu	days	in	%	%
DeKalb	DKS44-20	95.4	66.9	58.4	65	52	0	8
DeKalb	DKS53-67	95.3	64.5	58.8	69	51	0	9
Pioneer	83P17	92.5		56.6	70	54	0	3
Advanta	Ad 26056	88.2		57.5	71	49	0	9
Advanta	Ad 22612	85.2	•	58.2	69	56	0	25
DeKalb	DKS54-03	83.1	58.7	56	73	56	0	14
Advanta	GW 1467	79.7		57.6	63	49	0	9
Asgrow	A571	79.7	65.8	56.1	66	54	0	8
SS	SS800	78.7	53.1	56.9	63	53	0	5
Advanta	GW 1489	77.9		59.2	64	59	0	10
Alta Seeds	AG3201	77.3		57.1	67	54	0	6
Pioneer	83G66	76.5	54.5	58.3	67	53	0	9
DeKalb	DKS49-45	75.2		57.6	68	56	0	14
SS	SS650	73.1	51.2	58.2	69	59	0	16
DeKalb	DKS54-00	58.2	44.1	53.2	77	49	0	6
Southern States	SS560	56.3	33.0	59	62	50	0	5
Average		79.5 ⁴	54.6	57.4	68	53	0	10
LSD at 10% Level		13.2	17.6	1.4	4	5	-	N.S. ⁵
Std. Err. of Entry Mean		6.6	7.4	0.6	2	2	-	5

1. Yields calculated at 14% moisture.

2. Days from planting to 50% bloom.

3. Percent of grain head damaged.

4. CV = 14.0% and df for EMS = 45.

5. The F-test indicated no statistical differences at the alpha = .10 probability level; therefore, a LSD value was not calculated.

Bolding indicates entries yielding equal to highest yielding entry within a column based on Fisher's protected LSD (P = 0.10).

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Planted:	May 13, 2010.
Harvested:	November 2, 2010.
Seeding Rate:	100,000 seed/acre in 30" rows.
Soil Type:	Cecil sandy loam.
Soil Test:	P = Medium, K = High, and pH = 6.7.
Fertilization:	Preplant: 28 lb N, 56 lb P ₂ O ₅ , and 84 lb K ₂ O/acre. Sidedress: 100 lb N/acre.
Previous Crop:	Wheat.
Management:	Chisel plowed, disked, and rototilled; two cultivations used for weed control.

Test conducted by J. Gassett and G. Ware.