

## GRAIN SORGHUM

### Tifton, Georgia: Early-Planted Grain Sorghum Hybrid Performance, 2009 Nonirrigated

Company or Brand Name	Hybrid	2-Year		Test Wt. lb/bu	50% Bloom <sup>2</sup> days	Plant Ht. in	Lodging %
		Yield <sup>1</sup> bu/acre	Average Yield bu/acre				
DeKalb	DKS53-67	<b>95.8</b>	<b>88.8</b>	55.2	63	44	.
DeKalb	DKS54-00	<b>86.4</b>	82.0	53.6	67	47	.
DeKalb	DKS44-20	<b>85.8</b>	.	50.7	65	46	.
DynaGro	730B	<b>85.1</b>	.	53.0	57	41	.
SS	SS800	<b>82.9</b>	<b>89.4</b>	48.7	66	41	.
SS	SS650	<b>80.3</b>	.	49.4	65	46	.
Pioneer	83G66	<b>76.5</b>	<b>81.7</b>	50.7	64	51	.
Sorghum Partners	NK8416	72.8	.	51.8	63	60	.
DynaGro	758B	69.5	.	49.7	63	46	.
Southern States	SS560	68.1	65.7	49.7	58	44	.
Asgrow	A571	68.0	<b>78.3</b>	48.6	62	45	.
DynaGro	720B	67.2	.	45.6	60	35	.
DeKalb	DKS54-03	66.0	70.7	51.9	68	46	.
DynaGro	778B	60.6	.	49.9	70	50	.
DynaGro	732B	58.7	.	52.6	60	42	.
DynaGro	771B	55.9	.	47.2	65	42	.
FL	FGS-06BK13	47.3	32.9	50.8	.	.	.
FL	FGS-0620	24.3	28.1	.	.	.	.
Average		69.5 <sup>3</sup>	68.6	50.5	63	45	.
LSD at 10% Level		19.7	15.3	2.9	3	4	
Std. Err. of Entry Mean		8.3	6.5	1.2	1	2	

1. Yields calculated at 14% moisture.

2. Days from planting to 50% bloom.

3. CV = 23.9% and df for EMS = 51.

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

Planted: April 24, 2009.

Harvested: September 2, 2009.

Seeding Rate: 140,000 seed/acre in 30" rows.

Soil Type: Tifton loamy sand.

Soil Test: P = Low, K = Medium, and pH = 6.3.

Fertilization: Preplant: 75 lb N, 75 lb P<sub>2</sub>O<sub>5</sub>, and 75 lb K<sub>2</sub>O/acre. Sidedress: 125 lb N/acre.

Previous Crop: Peanuts.

Management: Disked, subsoiled and bedded, rototilled; one cultivation used for weed control; Lorsban used for insect control.

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

## Tifton, Georgia: Late-Planted Grain Sorghum Hybrid Performance, 2009 Nonirrigated

Company or Brand Name	Hybrid	2-Year		Test Wt. lb/bu	50% Bloom <sup>2</sup> days	Plant Ht. in	Lodging %	Disease <sup>3</sup> rating	Bird Damage <sup>4</sup> %
		Yield <sup>1</sup> bu/acre	Average Yield bu/acre						
Sorghum Partners	NK8416	<b>58.3</b>	.	51.6	.	64	.	1.4	33
DeKalb	DKS54-03	<b>50.4</b>	<b>58.8</b>	37.1	.	47	.	2.3	50
Pioneer	83G66	<b>47.0</b>	<b>64.4</b>	35.7	.	53	.	2.3	35
DeKalb	DKS54-00	<b>47.0</b>	<b>68.9</b>	37.8	.	54	.	1.9	33
Asgrow	A571	43.3	<b>55.1</b>	41.1	.	53	.	2.5	35
DeKalb	DKS53-67	42.1	<b>56.3</b>	42.4	.	50	.	2.5	33
DynaGro	730B	42.0	.	36.7	.	48	.	2.8	65
SS	SS800	40.8	<b>66.0</b>	42.6	.	53	.	2.8	28
DeKalb	DKS44-20	34.2	.	44.5	.	47	.	2.0	25
DynaGro	758B	32.3	.	42.0	.	50	.	2.3	38
Southern States	SS560	32.1	42.6	36.4	.	47	.	2.5	48
DynaGro	771B	28.6	.	40.3	.	54	.	2.5	38
DynaGro	720B	25.0	.	31.6	.	44	.	2.3	53
SS	SS650	25.0	.	47.1	.	52	.	2.5	20
DynaGro	732B	20.5	.	41.7	.	48	.	3.8	63
DynaGro	778B	15.8	.	42.0	.	62	.	2.3	25
FL	FGS-06BK13	6.3	7.5	51.3	.	52	.	1.9	75
FL	FGS-0620	5.5	36.7	51.0	.	53	.	1.5	.
Average		33.1 <sup>5</sup>	50.7	41.8	.	52	.	2.3	41
LSD at 10% Level		13.2	15.1	3.2	.	4	.	0.5	20
Std. Err. of Entry Mean		5.6	6.4	1.4	.	2	.	0.2	8

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 = 33.7% and df for EMS = 51.

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

Planted: June 19, 2009.  
 Harvested: October 9, 2009.  
 Seeding Rate: 140,000 seed/acre in 30" rows.  
 Soil Type: Tifton loamy sand.  
 Soil Test: P = Low, K = Medium, and pH = 6.3.  
 Fertilization: Preplant: 75 lb N, 75 lb P<sub>2</sub>O<sub>5</sub>, and 75 lb K<sub>2</sub>O/acre. Sidedress: 125 lb N/acre.  
 Previous Crop: Peanuts.  
 Management: Disked, subsoiled and bedded, rototilled; one cultivation used for weed control; Lorsban used for insect control.

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

## Plains, Georgia: Early-Planted Grain Sorghum Hybrid Performance, 2009 Nonirrigated

Company or Brand Name	Hybrid	Yield <sup>1</sup> bu/acre	2-Year		50% Bloom <sup>2</sup> days	Plant Ht. in	Lodging %	Disease <sup>3</sup> rating	Bird Damage <sup>4</sup> %
			Average Yield bu/acre	Test Wt. lb/bu					
DeKalb	DKS53-67	<b>52.1</b>	<b>50.9</b>	.	.	42	2	.	38
DeKalb	DKS54-00	33.4	<b>37.9</b>	.	.	42	1	.	30
DeKalb	DKS44-20	32.8	.	.	.	40	5	.	20
DynaGro	720B	28.6	.	.	.	33	23	.	13
FL	FGS-06BK13	27.8	<b>18.8</b>	.	.	39	0	.	14
DeKalb	DKS54-03	26.0	<b>36.9</b>	.	.	39	0	.	29
DynaGro	758B	24.6	.	.	.	42	14	.	44
Asgrow	A571	24.2	<b>32.5</b>	.	.	37	12	.	17
Sorghum Partners	NK8416	19.5	.	.	.	41	45	.	29
SS	SS800	16.4	<b>29.3</b>	.	.	34	26	.	13
DynaGro	730B	15.6	.	.	.	42	58	.	20
Pioneer	83G66	15.5	<b>31.8</b>	.	.	39	38	.	50
DynaGro	771B	14.5	.	.	.	38	48	.	29
FL	FGS-0620	13.4	<b>15.8</b>	.	.	42	0	.	25
DynaGro	778B	13.0	.	.	.	40	0	.	22
Southern States	SS560	12.5	<b>25.2</b>	.	.	37	48	.	22
SS	SS650	9.7	.	.	.	38	53	.	29
DynaGro	732B	7.3	.	.	.	36	78	.	25
Average		21.5 <sup>5</sup>	31.0	.	.	39	25	.	26
LSD at 10% Level		6.0	N.S. <sup>6</sup>			3	15		-
Std. Err. of Entry Mean		2.5	3.2			1	6		-

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 = 23.5% and df for EMS = 51.
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 27, 2009.  
 Harvested: September 1, 2009.  
 Seeding Rate: 140,000 seed/acre in 30" rows.  
 Soil Type: Greenville sandy loam.  
 Soil Test: P = Medium, K = Medium, and pH = 6.1.  
 Fertilization: Preplant: 65 lb N, 66 lb P<sub>2</sub>O<sub>5</sub>, and 18 lb K<sub>2</sub>O/acre. Sidedress: 50 lb N/acre.  
 Previous Crop: Soybeans.  
 Management: Disked, chiseled and bedded; Atrazine and Permit used for weed control.

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

## Plains, Georgia: Late-Planted Grain Sorghum Hybrid Performance, 2009 Nonirrigated

Company or Brand Name	Hybrid	2-Year		Test Wt. lb/bu	50% Bloom <sup>2</sup> days	Plant Ht. in	Lodging %
		Yield <sup>1</sup> bu/acre	Average Yield bu/acre				
FL	FGS-0620	<b>88.6</b>	<b>66.8</b>	54.3	70	64	0
Sorghum Partners	NK8416	67.0	.	56.4	54	66	0
DeKalb	DKS54-00	50.2	<b>61.6</b>	44.7	53	59	0
FL	FGS-06BK13	43.6	<b>44.1</b>	51.9	59	55	0
DynaGro	730B	43.3	.	51.2	43	50	0
Southern States	SS560	38.4	<b>43.6</b>	51.1	43	46	0
Pioneer	83G66	35.5	<b>52.3</b>	42.3	43	56	0
DeKalb	DKS53-67	32.8	<b>45.5</b>	49.0	53	52	3
DynaGro	758B	28.7	.	45.7	46	51	9
Asgrow	A571	24.9	<b>40.4</b>	41.0	46	54	15
DynaGro	720B	22.3	.	45.1	42	39	0
SS	SS650	21.2	.	40.6	46	55	93
SS	SS800	21.1	<b>27.4</b>	43.6	43	51	93
DeKalb	DKS44-20	20.4	.	47.0	53	58	17
DynaGro	771B	19.3	.	39.4	43	50	86
DeKalb	DKS54-03	18.0	<b>30.0</b>	48.0	53	55	22
DynaGro	778B	14.9	.	35.9	52	63	3
DynaGro	732B	8.5	.	48.0	43	48	94
Average		33.3 <sup>3</sup>	45.7	46.4	49	54	24
LSD at 10% Level		9.3	N.S. <sup>4</sup>	2.2	-	3	12
Std. Err. of Entry Mean		3.9	4.7	0.9	-	1	5

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. CV = 23.6% and df for EMS = 51.
4. 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 17, 2009.  
 Harvested: October 21, 2009.  
 Seeding Rate: 140,000 seed/acre in 30" rows.  
 Soil Type: Greenville sandy loam.  
 Soil Test: P = Medium, K = Medium, and pH = 6.1.  
 Fertilization: Preplant: 65 lb N, 66 lb P<sub>2</sub>O<sub>5</sub>, and 18 lb K<sub>2</sub>O/acre. Sidedress: 100 lb N/acre.  
 Previous Crop: Cotton.  
 Management: Disked, chiseled and bedded; Atrazine used for weed control.

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

## Griffin, Georgia: Early-Planted Grain Sorghum Hybrid Performance, 2009 Nonirrigated

Company or Brand Name	Hybrid	2-Year Average		Test Wt. lb/bu	50% Bloom <sup>2</sup> days	Plant Ht. in	Lodging %	Bird Damage <sup>3</sup> rating
		Yield <sup>1</sup> bu/acre	Yield bu/acre					
Asgrow	A571	<b>75.9</b>	<b>59.1</b>	53.9	71	39	0	15
DynaGro	771B	<b>70.1</b>	.	55.9	67	37	0	26
DeKalb	DKS54-03	<b>67.7</b>	<b>57.6</b>	57.0	72	42	0	23
DeKalb	DKS53-67	<b>63.0</b>	<b>57.0</b>	58.2	70	43	0	23
DynaGro	758B	<b>60.4</b>	.	53.1	65	36	0	21
DynaGro	778B	<b>60.3</b>	.	54.9	73	47	0	26
DeKalb	DKS54-00	<b>60.2</b>	<b>57.2</b>	57.2	76	42	0	19
Pioneer	83G66	<b>59.6</b>	<b>63.0</b>	55.6	69	41	0	20
Sorghum Partners	NK8416	<b>59.6</b>	.	56.6	79	45	0	26
SS	SS650	56.7	.	58.0	69	40	0	23
DeKalb	DKS44-20	56.6	.	54.4	70	39	0	23
DynaGro	732B	55.6	.	55.9	59	32	0	24
DynaGro	730B	53.1	.	55.0	59	30	0	21
SS	SS800	51.8	<b>59.5</b>	52.1	66	37	0	16
Southern States	SS560	50.5	49.9	56.1	59	31	0	16
FL	FGS-06BK13	36.1	27.6	54.6	81	38	0	21
DynaGro	720B	33.9	.	49.8	57	29	0	29
Average		57.1 <sup>4</sup>	53.9	55.2	68	38	0	22
LSD at 10% Level		16.3	11.3	2.8	3	3	-	N.S. <sup>5</sup>
Std. Err. of Entry Mean		6.9	4.8	1.2	1	1	-	4

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. Percent of grain head damaged.
4. CV = 24.1% and df for EMS = 48.
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: June 2, 2009.  
 Harvested: October 2, 2009.  
 Seeding Rate: 100,000 seed/acre in 30" rows.  
 Soil Type: Cecil sandy loam.  
 Soil Test: P = Low, K = High, and pH = 6.5.  
 Fertilization: Preplant: 30 lb N, 60 lb P<sub>2</sub>O<sub>5</sub>, and 90 lb K<sub>2</sub>O/acre. Sidedress: 100 lb N/acre.  
 Previous Crop: Fallow.  
 Management: Chisel plowed, disked, and rototilled; Atrazine and two cultivations use for weed control.

Test conducted by J. Gassett and G. Ware.

## Griffin, Georgia: Late-Planted Grain Sorghum Hybrid Performance, 2009 Nonirrigated

Company or Brand Name	Hybrid	2-Year		Test Wt. lb/bu	50% Bloom <sup>2</sup> days	Plant Ht. in	Lodging %
		Yield <sup>1</sup> bu/acre	Average Yield bu/acre				
Asgrow	A571	<b>51.9</b>	<b>66.9</b>	53.2	69	47	0
DynaGro	771B	<b>40.8</b>	.	53.2	67	43	0
Sorghum Partners	NK8416	40.2	.	54.0	81	54	0
DeKalb	DKS44-20	38.5	.	53.5	67	43	0
DeKalb	DKS54-03	34.2	<b>62.1</b>	51.5	73	45	0
DeKalb	DKS53-67	33.6	<b>60.2</b>	55.3	72	46	0
Pioneer	83G66	32.5	<b>63.5</b>	52.3	70	49	0
DeKalb	DKS54-00	29.9	<b>59.2</b>	51.6	73	46	0
SS	SS650	29.3	.	54.5	76	43	0
SS	SS800	27.5	<b>47.8</b>	49.0	69	44	0
DynaGro	758B	27.1	.	53.5	71	40	0
DynaGro	732B	26.9	.	51.7	64	38	0
DynaGro	778B	17.0	.	50.0	81	51	0
FL	FGS-0620	16.6	34.2	44.4	89	54	0
FL	FGS-06BK13	16.4	15.9	57.6	83	51	0
DynaGro	730B	16.0	.	49.3	61	42	0
Southern States	SS560	9.7	25.6	47.8	59	37	0
DynaGro	720B	2.8	.	44.4	58	33	0
Average		27.3 <sup>3</sup>	48.4	51.5	71	45	0
LSD at 10% Level		11.4	20.5	2.4	4	3	-
Std. Err. of Entry Mean		5.0	8.6	1.0	2	1	-

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. CV = 35.3% and df for EMS = 51.

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

Planted: July 2, 2009.

Harvested: November 30, 2009.

Seeding Rate: 150,000 seed/acre in 30" rows.

Soil Type: Cecil sandy loam.

Soil Test: P = Very High, K = Very High, and pH = 6.3.

Fertilization: Preplant: 30 lb N, 60 lb P<sub>2</sub>O<sub>5</sub>, and 90 lb K<sub>2</sub>O/acre. Sidedress: 100 lb N/acre.

Previous Crop: Corn.

Management: Chisel plowed, disked, rototilled; Atrazine and one cultivation used for weed control.

Test conducted by J. Gassett and G. Ware.