

GRAIN SORGHUM

Tifton, Georgia: Early-Planted Grain Sorghum Hybrid Performance, 2006 Nonirrigated

Company or Brand Name	Hybrid	2-Year Average		Test Wt. lb/bu	50% Bloom ² days	Plant Ht. in	Lodging %	Disease ³ rating	Bird Damage ⁴ %
		Yield ¹ bu/acre	Yield bu/acre						
NC+	NC+7B51	134.8	.	54.4	64	49	5	2.0	20
Monsanto	MSD472	129.3	.	54.2	63	41	0	1.8	30
Pioneer	83G66	126.9	93.8	57.4	66	50	1	2.0	20
SS	SS-650	126.8	85.1	61.4	66	50	3	2.0	24
Asgrow	A571	126.7	82.1	55.9	65	52	1	1.5	23
SS	SS800	124.6	99.7	56.3	65	47	0	2.0	27
Monsanto	MSC432	122.8	.	56.2	64	56	1	2.0	30
Moss	M929MB	121.1	.	58.8	62	45	0	1.0	18
DeKalb	DKS54-00	115.6	81.4	56.5	66	54	1	1.5	26
Monsanto	MSD477	114.6	.	56.8	62	53	0	2.3	25
Moss	M927ER	111.5	.	54.4	64	45	1	1.8	29
Moss	M1024DPW	105.5	.	56.3	70	51	1	1.0	25
Pioneer	82G10	103.4	.	60.0	71	52	1	2.0	25
Plantation Seeds	GS 408	99.4	77.2	52.2	72	61	5	2.0	51
Plantation Seeds	GS 401	95.0	67.2	53.6	72	53	5	2.0	26
FL	FL 2816/R7	80.3	.	52.2	69	68	4	1.8	53
FL	FL 603/R4	76.1	.	56.5	72	62	9	2.5	39
Average		112.6 ⁵	83.8	56.0	66	52	2	1.8	29
LSD at 10% Level		14.8	N.S. ⁶	3.1	3	4	4	0.4	10
Std. Err. of Entry Mean		6.2	6.7	1.3	1	2	2	0.2	4

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 = 11.1% and df for EMS = 48.
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: May 14, 2006.
 Harvested: August 17, 2006.
 Seeding Rate: 140,000 seed/acre in 30" rows.
 Soil Type: Tifton loamy sand.
 Soil Test: P = Low, K = Medium, and pH = 5.2.
 Fertilization: Preplant: 24 lb N, 100 lb P₂O₅, and 100 lb K₂O/acre. Sidedress: 114 lb N/acre.
 Previous Crop: Peanuts.
 Management: Paratilled, subsoiled and bedded, and rototilled; Atrazine and three cultivations used for weed control; Lorsban, Karate, and Tracer used for insect control.

Test conducted by A. E. Coy, R. Brooke, and R. Jackson.

Tifton, Georgia: Late-Planted Grain Sorghum Hybrid Performance, 2006 Nonirrigated

Company or Brand Name	Hybrid	Yield ¹ bu/acre	2-Year Average Yield bu/acre	Test Wt. lb/bu	50% Bloom ² days	Plant Ht. in	Lodging %	Disease ³ rating	Bird Damage ⁴ %
Moss	M1024DPW	93.7	80.7	57.7	67	44	0	2.0	24
Moss	M929MB	92.4	55.2	57.0	63	38	0	2.0	26
FL	FL 2816/R7	85.6	.	57.1	72	62	0	2.5	34
Monsanto	MSC432	85.3	.	55.8	72	51	0	3.3	28
Pioneer	83G66	83.9	65.7	55.1	65	43	0	3.3	29
Plantation Seeds	GS 401	80.8	78.6	58.8	72	49	0	3.0	33
SS	SS800	78.6	64.7	53.9	65	43	0	3.0	36
Plantation Seeds	GS 408	75.7	76.3	54.9	73	57	0	2.5	39
SS	SS-650	73.9	56.4	59.3	67	47	0	3.0	32
NC+	NC+7B51	70.4	.	52.3	66	42	0	3.0	37
FL	FL 603/R4	69.2	.	53.7	72	55	0	3.0	33
Moss	M927ER	64.8	58.5	56.7	62	43	0	2.8	35
Average		79.5 ⁵	67.0	56.0	68	48	0	2.8	32
LSD at 10% Level		10.4	N.S. ⁶	3.1	1	4	-	0.4	N.S.
Std. Err. of Entry Mean		4.3	5.2	1.3	1	1	-	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 = 10.9% and df for EMS = 33.
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, 2006
Harvested: September 29, 2006.
Seeding Rate: 140,000 seed/acre in 30" rows.
Soil Type: Tifton loamy sand.
Soil Test: P = Low, K = Medium, and pH = 5.2.
Fertilization: Preplant: 24 lb N, 100 lb P₂O₅, and 100 lb K₂O/acre. Sidedress: 114 lb N/acre.
Previous Crop: Peanuts.
Management: Paratilled, subsoiled and bedded, and rototilled; Atrazine and three cultivations used for weed control; Lorsban, Karate, and Tracer used for insect control.

Test conducted by A. E. Coy, R. Brooke, and R. Jackson.

Plains, Georgia: Early-Planted Grain Sorghum Hybrid Performance, 2006 Nonirrigated*

Company or Brand Name	Hybrid	Yield ¹ bu/acre	2-Year	Test Wt. lb/bu	50% Bloom ² days	Plant Ht. in	Lodging %	Disease ³ rating	Bird Damage ⁴ %
			Average Yield bu/acre						
Plantation Seeds	GS 401	64.6	53.9	61.1	82	40	0	.	.
FL	FL 2816/R7	56.8	.	56.6	73	61	0	.	.
FL	FL 603/R4	51.1	.	58.5	75	44	0	.	.
Plantation Seeds	GS 408	48.7	72.9	65.0	82	47	0	.	.
Pioneer	82G10	48.0	.	56.7	82	48	0	.	.
Asgrow	A571	43.5	84.7	54.2	71	52	0	.	.
DeKalb	DKS54-00	43.2	90.6	54.2	71	55	0	.	.
Pioneer	83G66	39.7	87.7	55.3	69	51	0	.	.
Moss	M927ER	39.5	.	53.8	57	44	0	.	.
Monsanto	MSC432	38.7	.	57.0	72	55	0	.	.
Moss	M1024DPW	36.4	.	53.7	72	45	0	.	.
Monsanto	MSD477	36.1	.	57.2	67	51	0	.	.
NC+	NC+7B51	35.8	.	51.9	68	40	0	.	.
SS	SS800	33.9	81.2	50.7	68	46	0	.	.
Moss	M929MB	30.2	.	50.6	65	49	0	.	.
SS	SS-650	19.3	66.4	58.3	71	45	0	.	.
Monsanto	MSD472	17.7	.	.	66	39	0	.	.
Average		40.2 ⁵	76.8	55.9	71	48	0	.	.
LSD at 10% Level		15.3	N.S. ⁶	5.1	-	7	-		
Std. Err. of Entry Mean		6.4	9.4	2.1	-	3	-		

* NOTE: Severe drought during growing season negatively impacted this test.

Please use caution when interpreting the results.

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 = 32.0% and df for EMS = 48.
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: May 20, 2006.
 Harvested: October 4, 2006.
 Seeding Rate: 140,000 seed/acre in 30" rows.
 Soil Type: Faceville sandy loam.
 Soil Test: P = Low, K = High, and pH = 5.5.
 Fertilization: Preplant: 66 lb N, 88 lb P₂O₅, and 24 lb K₂O/acre. Sidedress: 50 lb N/acre.
 Previous Crop: Soybeans.
 Management: Subsoiled and rototilled; Atrazine and one cultivation used for weed control; Karate used for insect control.

Test conducted by A. E. Coy, R. Brooke, R. Jackson, and R. R. Pines.

Plains, Georgia: Late-Planted Grain Sorghum Hybrid Performance, 2006 Nonirrigated

Company or Brand Name	Hybrid	Yield ¹ bu/acre	2-Year		50% Bloom ² days	Plant Ht. in	Lodging %	Disease ³ rating	Bird Damage ⁴ %
			Average Yield bu/acre	Test Wt. lb/bu					
Pioneer	82G10	120.1	.	58.3	62	58	2	3.0	10
DeKalb	DKS54-00	119.2	113.5	58.0	68	66	0	1.8	7
Moss	M1024DPW	116.3	98.9	56.2	62	64	2	1.8	12
FL	FL 603/R4	112.5	.	59.2	64	68	1	2.0	12
Pioneer	83G66	112.0	104.2	56.2	61	56	0	2.8	13
Plantation Seeds	GS 401	109.6	82.0	58.3	66	61	1	2.0	10
SS	SS800	105.6	85.8	54.4	55	53	2	3.5	16
Asgrow	A571	103.2	96.3	52.0	57	55	1	3.0	19
NC+	NC+7B51	102.0	.	54.1	58	53	3	3.5	14
Monsanto	MSC432	100.6	.	56.5	68	68	0	2.0	12
Plantation Seeds	GS 408	100.3	94.2	57.3	63	63	0	2.0	14
Moss	M929MB	97.7	98.8	56.5	55	51	1	2.5	14
SS	SS-650	96.1	82.1	56.6	58	60	0	3.5	21
Monsanto	MSD477	88.0	.	55.5	55	62	3	2.8	18
Moss	M927ER	85.3	83.6	55.3	56	51	1	3.0	24
Monsanto	MSD472	83.4	.	52.0	56	50	0	2.8	19
FL	FL 2816/R7	83.0	.	55.8	67	77	3	1.8	29
Average		102.1 ⁵	93.9	56.0	60	60	1	2.6	15
LSD at 10% Level		12.5	N.S. ⁶	1.4	2	2	N.S.	0.4	7
Std. Err. of Entry Mean		5.3	6.2	0.6	1	1	1	0.2	3

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 = 10.4% and df for EMS = 48.
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, 2006.
 Harvested: October 4, 2006.
 Seeding Rate: 140,000 seed/acre in 30" rows.
 Soil Type: Faceville sandy loam.
 Soil Test: P = Low, K = High, and pH = 5.5.
 Fertilization: Preplant: 66 lb N, 88 lb P₂O₅, and 24 lb K₂O/acre. Sidedress: 50 lb N/acre.
 Previous Crop: Soybeans.
 Management: Subsoiled and rototilled; Atrazine and one cultivation used for weed control; Karate used for insect control.

Test conducted by A. E. Coy, R. Brooke, R. Jackson, and R. R. Pines.

Griffin, Georgia: Early-Planted Grain Sorghum Hybrid Performance, 2006 Nonirrigated*

Company or Brand Name	Hybrid	Yield ¹ bu/acre	2-Year Average Yield bu/acre	Test Wt. lb/bu	50% Bloom ² days	Plant Ht. in	Lodging %
Pioneer	83G66	80.6	92.8	53.4	68	44	0
Plantation Seeds	GS 408	77.3	.	53.4	68	49	0
Monsanto	MSC432	76.5	.	53.2	72	47	0
FL	FL 603/R4	71.9	.	55.4	71	51	0
FL	FL 2816/R7	64.3	.	53.8	75	54	0
Moss	M929MB	62.6	76.2	50.7	61	31	0
SS	SS800	62.5	78.4	41.3	65	36	0
SS	SS-650	62.5	84.1	51.7	69	43	0
NC+	NC+7B51	61.1	.	52.3	66	38	0
Plantation Seeds	GS 401	60.9	.	55.2	74	46	0
Moss	M927ER	53.4	67.7	50.7	59	33	0
Average		66.7 ³	79.8	51.9	68	43	0
LSD at 10% Level		10.1	11.2	6.5	2	2	-
Std. Err. of Entry Mean		4.2	4.6	2.7	1	1	-

* Intense heat and drought stress during growing season.

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. CV = 12.6% and df for EMS = 30.

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

Planted: May 26, 2006.
 Harvested: October 10, 2006.
 Seeding Rate: 140,000 seed/acre in 30" rows.
 Soil Type: Cecil clay loam.
 Soil Test: P = Medium, K = High, and pH = 6.3.
 Fertilization: Preplant: 28 lb N, 56 lb P₂O₅, and 84 lb K₂O/acre. Sidedress: 100 lb N/acre.
 Previous Crop: Wheat.
 Management: Chisel plowed, disked, and rototilled; Aatrex and one cultivation used for weed control.

Test conducted by P. A. Rose.

Griffin, Georgia: Late-Planted Grain Sorghum Hybrid Performance, 2006 Nonirrigated*

Company or Brand Name	Hybrid	2-Year		Test Wt. lb/bu	50% Bloom ² days	Plant Ht. in	Lodging %
		Yield ¹ bu/acre	Average Yield bu/acre				
Pioneer	83G66	93.2	73.3	60.7	.	41	0
SS	SS-650	89.6	71.9	62.2	.	49	0
Plantation Seeds	GS 408	82.2	.	61.2	.	46	0
SS	SS800	81.8	69.6	59.8	.	43	0
Moss	M927ER	73.4	70.3	60.4	.	41	0
Plantation Seeds	GS 401	70.1	.	61.5	.	44	0
Moss	M929MB	70.0	60.2	62.2	.	42	0
NC+	NC+7B51	58.5	.	60.3	.	42	0
Monsanto	MSC432	47.5	.	57.8	.	46	0
Average		74.0 ³	69.1	60.7	.	44	0
LSD at 10% Level		15.7	N.S. ⁴	1.4		N.S.	-
Std. Err. of Entry Mean		6.5	4.5	0.6		2	-

* Intense heat and drought stress during growing season.

1. Yields calculated at 14% moisture.
2. Days from planting to 50% bloom.
3. CV = 17.6% and df for EMS = 24.
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 30, 2006.
 Harvested: November 2, 2006.
 Seeding Rate: 140,000 seed/acre in 30" rows.
 Soil Type: Cecil clay loam.
 Soil Test: P = Medium, K = High, and pH = 6.3.
 Fertilization: Preplant: 28 lb N, 56 lb P₂O₅, and 84 lb K₂O/acre. Sidedress: 100 lb N/acre.
 Previous Crop: Soybean.
 Management: Chisel plowed, disked, and rototilled; Aatrex and one cultivation used for weed control.

Test conducted by P. A. Rose.

Marianna, Florida: Early-Planted Grain Sorghum Hybrid Performance, 2006 Irrigated

Company or Brand Name	Hybrid	Yield ¹ lb/acre	2-Year Average Yield		Test Wt. lb/bu	50% Bloom ² days	Plant Ht. in	Lodging %	Disease ³ rating
			lb/acre	lb/acre					
Monsanto	MSC432	5781	.	.	.	67	55	1.6	4.4
DeKalb	DKS54-00	5681	5971	.	.	68	54	1.5	3.1
Moss	M1024DPW	5581	4889	.	.	71	53	1.5	3.0
FL	FL 603/R4	5554	.	.	.	71	60	1.9	3.3
SS	SS800	5472	5141	.	.	66	46	1.8	3.8
Plantation Seeds	GS 401	5427	5050	.	.	72	51	1.6	3.1
SS	SS-650	5363	4826	.	.	67	49	1.9	4.5
Pioneer	83G66	5327	5000	.	.	67	53	1.5	3.5
FL	FL 2816/R7	5191	.	.	.	72	63	2.0	2.4
NC+	NC+7B51	5127	.	.	.	65	50	1.6	4.3
Moss	M927ER	4982	4669	.	.	59	44	1.9	6.6
Moss	M929MB	4873	4479	.	.	61	44	1.6	6.8
Monsanto	MSD472	4864	.	.	.	62	45	1.5	5.5
Monsanto	MSD477	4846	.	.	.	63	53	1.6	4.6
Plantation Seeds	GS 408	4719	5241	.	.	72	56	2.0	3.1
Asgrow	A571	4410	4395	.	.	65	53	1.8	4.1
Average		5200 ⁴	4966	.	.	67	52	1.7	4.1
LSD at 10% Level		N.S. ⁵	N.S.			2	3	0.2	0.8
Std. Err. of Entry Mean		427	272			1	1	0.1	0.3

1. Yields calculated at 14% moisture.

2. Days from planting to 50% bloom.

3. Rated 1 = resistant to 10 = susceptible to foliar diseases.

4. CV = 16.4% 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: April 7, 2006.

Harvested: July 30, 2006.

Seeding Rate: 130,000 seed/acre in 30" rows.

Soil Type: Chipola loamy sand.

Fertilization: Preplant: 129 lb N, 84 lb P₂O₅, and 129 lb K₂O/acre. Sidedress: 70 lb N/acre.

Management: Moldboard plowed and disked; Atrazine, Dual, and Prowl used for weed control; Tracer and Karate used for insect control; irrigated 5.25 inches.

Test conducted by M. Gomillion.

Marianna, Florida: Late-Planted Grain Sorghum Hybrid Performance, 2006 Irrigated

Company or Brand Name	Hybrid	Yield ¹ lb/acre	2-Year	Test Wt. lb/bu	50% Bloom ² days	Plant Ht. in	Lodging %	Disease ³ rating
			Average Yield lb/acre					
FL	FL 2816/R7	4041	.	.	64	72	1.7	3.0
Moss	M1024DPW	3836	.	.	66	62	1.5	4.2
Plantation Seeds	GS 408	3642	2831	.	68	65	1.7	4.3
FL	FL 603/R4	3219	.	.	66	67	1.7	6.0
Monsanto	MSC432	3158	.	.	62	63	1.5	4.2
Moss	M929MB	3122	.	.	71	50	1.5	7.3
Pioneer	83G66	3037	2226	.	70	58	1.8	8.7
Plantation Seeds	GS 401	2735	2395	.	68	61	1.8	6.0
Moss	M927ER	2493	.	.	71	53	2.0	9.2
SS	SS-650	2468	2003	.	69	57	3.7	10.0
SS	SS800	2360	1849	.	70	51	2.0	10.0
NC+	NC+7B51	2009	.	.	71	51	3.2	10.0
Average		3010 ⁴	2261	.	68	59	2.0	6.9
LSD at 10% Level		578	N.S. ⁵		2	3	0.7	0.5
Std. Err. of Entry Mean		206	237		1	1	0.3	0.2

1. Yields calculated at 14% moisture.

2. Days from planting to 50% bloom.

3. Rated 1 = resistant to 10 = susceptible to foliar diseases.

4. CV = 13.7% and df for EMS = 22.

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 27, 2006.

Harvested: October 16, 2006.

Seeding Rate: 130,000 seed/acre in 30" rows.

Soil Type: Chipola loamy sand.

Fertilization: Preplant: 129 lb N, 84 lb P₂O₅, and 129 lb K₂O/acre. Sidedress: 70 lb N/acre.

Management: Moldboard plowed and disked; Atrazine, Dual, and Prowl used for weed control; Tracer and Karate used for insect control; irrigated 5.25 inches.

Test conducted by M. Gomillion.