

North Georgia Region

Calhoun, Georgia:

Short-Season Corn Hybrid Performance, 2007, Nonirrigated

Company or Brand Name	Hybrid Name	Yield ¹		Ears/100 Plants	Ear Grain Weight	Grain Quality ²	Grain Moist. ³	Plant Pop.	Erect Plants	
		2007	2-Year Avg							3-Year Avg
		----- bu/acre	-----	no.	lb	rating	%	no.	%	
Pioneer	33M57(Hx1/LL/RR2)	100.5	.	.	95	0.26	1.5	14.6	22978	100
DeKalb	DKC63-46 RR2/YGCB	99.6	.	.	94	0.25	1.8	13.2	22682	100
Croplan Genetics	6831TS	99.4	.	.	96	0.26	1.5	13.5	22107	100
SS	731CL	91.1	.	.	96	0.28	1.5	14.9	18949	100
AgraTech	695RR	91.0	.	.	93	0.25	1.8	13.8	21671	100
DeKalb	DKC61-73 RR2/YGCG	86.5	.	.	94	0.24	1.3	13.8	20691	100
DeKalb	DK64-27RR2	84.0	.	.	93	0.23	1.5	15.0	22869	100
DeKalb	DK65-47RR2	77.7	.	.	92	0.22	1.3	16.2	21236	100
<i>Average</i>		91.2 ⁴	.	.	94	0.25	1.5	14.3	21648	100
<i>LSD at 10% Level</i>		N.S. ⁵			N.S.	N.S.	N.S.	0.7	N.S.	-
<i>Std. Err. of Entry Mean</i>		6.6			2	0.02	0.1	0.3	1024	-

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 14.4%, and df for EMS = 21.
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: April 19, 2007, replanted on May 11, 2007.

Harvested: August 18, 2007.

Seeding Rate: 23,500 seeds/acre in 30" rows.

Soil Type: Rome gravelly clay loam.

Soil Test: P = High, K = Very High, and pH = 6.0.

Fertilization: 15 lb N, 45 lb P₂O₅, and 120 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.

Previous Crop: Fallow.

Management: Moldboard plowed, disked, and rototilled; Atrazine, Lasso, and one cultivation used for weed control; Warrior used for insect control.

Test conducted by J. Gassett, G. Ware, and J. Stubbs.

Calhoun, Georgia: Mid-Season Corn Hybrid Performance, 2007, Nonirrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/100 Plants	Ear Grain Weight	Grain Quality ²	Grain Moist. ³	Plant Pop.	Erect Plants
		2007	2-Year Avg	3-Year Avg						
		-----	bu/acre	-----	no.	lb	rating	%	no.	%
DeKalb	DKC67-23(RR2/YGCB)	119.7	.	.	98	0.29	1.5	14.2	22978	100
AgraTech	7711RR	109.4	.	.	94	0.29	1.5	15.8	22651	100
DeKalb	DKC69-71(RR2/YGCB)	101.5	64.4	105.9	92	0.25	1.5	15.4	24821	100
DeKalb	DK67-87 RR2/YGCB	100.9	.	.	95	0.27	1.8	15.4	22107	100
DeKalb	DKC66-23 RR2/YGCB	99.0	.	.	93	0.27	1.5	13.3	21344	100
DynaGro	CX06517	92.1	.	.	93	0.24	1.3	15.3	23087	100
SS	SS783RR2YGCB	92.1	.	.	95	0.24	1.8	14.8	22760	100
Pioneer	31G65(RR2)	89.6	.	.	92	0.27	1.5	13.5	19929	100
Croplan Genetics	851TS	88.9	59.1	108.8	97	0.24	2.0	14.0	21344	100
Pioneer	31N28(YGCB)	81.0	.	.	95	0.25	1.5	14.2	20473	100
DeKalb	DK69-43RR2	80.2	.	.	92	0.25	1.8	15.9	20147	100
Pioneer	31P41	76.4	52.6	.	90	0.24	1.8	14.9	19820	100
Pioneer	31D58	70.6	54.8	.	87	0.23	1.3	14.6	19820	100
AgraTech	897RR	68.6	.	.	96	0.19	2.3	15.3	21127	100
<i>Average</i>		90.7 ⁴	57.7	107.4	93	0.25	1.6	14.7	21600	100
<i>LSD at 10% Level</i>		22.0	N.S. ⁵	N.S.	N.S.	N.S.	N.S.	0.2	N.S.	-
<i>Std. Err. of Entry Mean</i>		9.2	7.2	4.7	3	0.02	0.3	0.2	1352	-

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 20.4%, 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: April 19, 2007, replanted May 11, 2007.

Harvested: August 18, 2007.

Seeding Rate: 23,500 seeds/acre in 30" rows.

Soil Type: Rome gravelly clay loam.

Soil Test: P = High, K = Very High, and pH = 6.0.

Fertilization: 15 lb N, 45 lb P₂O₅, and 120 lb K₂O/acre as preplant; 150 lb N/acre as sidedress.

Previous Crop: Fallow.

Management: Moldboard plowed, disked, and rototilled; Atrazine, Lasso, and one cultivation used for weed control; Warrior used for insect control.

Test conducted by J. Gassett, G. Ware, and J. Stubbs.

Calhoun, Georgia: Short-Season Corn Hybrid Performance, 2007, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹		Ears/100 Plants	Ear Grain Weight	Grain Quality ²	Grain Moist. ³	Plant Pop.	Erect Plants	
		2007	2-Year Avg							3-Year Avg
		----- bu/acre -----		no.	lb	rating	%	no.	%	
DeKalb	DKC61-73 RR2/YGCG	154.2	.	.	103	0.33	1.5	15.2	25483	100
DeKalb	DKC63-46 RR2/YGCB	145.5	.	.	103	0.31	1.5	15.0	25374	100
Croplan Genetics	6831TS	142.1	.	.	104	0.31	2.0	14.2	24503	100
DeKalb	DK64-27RR2	140.2	.	.	108	0.32	1.8	16.1	23196	100
DeKalb	DK65-47RR2	131.1	.	.	103	0.30	1.8	17.2	24067	100
AgraTech	695RR	129.2	.	.	102	0.29	1.5	16.6	24918	100
SS	731CL	122.5	.	.	107	0.27	1.8	16.5	24067	100
Pioneer	33M57(Hx1/LL/RR2)	116.8	.	.	103	0.25	1.5	16.4	25701	100
<i>Average</i>		135.2 ⁴	.	.	104	0.30	1.7	15.9	24663	100
<i>LSD at 10% Level</i>		14.0			N.S. ⁵	0.04	0.2	1.1	N.S.	-
<i>Std. Err. of Entry Mean</i>		5.8			2	0.02	0.1	0.4	1018	-

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 8.5%, and df for EMS = 21.
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: April 19, 2007, replanted May 11, 2007.

Harvested: August 18, 2007.

Seeding Rate: 28,000 seeds/acre in 30" rows.

Soil Type: Waynesboro loam.

Soil Test: P = High, K = Very High, and pH = 6.0.

Fertilization: 24 lb N, 60 lb P₂O₅, and 160 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.

Previous Crop: Soybean.

Management: Moldboard plowed, disked, and rototilled; Atrazine, Lasso, and one cultivation used for weed control; Warrior used for insect control; irrigated 21.0 inches.

Test conducted by J. Gassett, G. Ware, and J. Stubbs.

Calhoun, Georgia: Mid-Season Corn Hybrid Performance, 2007, Irrigated

Company or Brand Name	Hybrid Name	Yield ¹			Ears/100 Plants	Ear Grain Weight	Grain Quality ²	Grain Moist. ³	Plant Pop.	Erect Plants
		2007	2-Year Avg	3-Year Avg						
Pioneer	31P41	147.3	186.5	.	99	0.37	1.8	17.0	23087	100
DeKalb	DKC66-23 RR2/YGBC	137.1	.	.	102	0.30	1.5	14.4	24611	100
Croplan Genetics	851TS	129.9	173.5	185.5	97	0.31	1.5	15.3	23958	100
AgraTech	7711RR	124.5	.	.	100	0.29	1.5	17.5	24285	100
DeKalb	DKC67-23(RR2/YGCB)	121.1	.	.	101	0.28	1.5	15.2	24067	100
AgraTech	897RR	120.3	.	.	96	0.30	2.5	16.7	24067	100
Pioneer	31D58	118.9	178.9	.	101	0.27	1.5	16.4	24938	100
Pioneer	31N28(YGCB)	114.2	.	.	102	0.26	1.5	15.2	23958	100
SS	SS783RR2YGCB	113.5	.	.	104	0.25	1.0	14.7	24393	100
DeKalb	DK67-87 RR2/YGCB	113.3	.	.	100	0.25	1.5	16.7	25483	100
DeKalb	DKC69-71(RR2/YGCB)	112.7	173.1	182.8	97	0.25	1.5	15.1	26463	100
Pioneer	31G65(RR2)	110.8	.	.	104	0.29	2.0	15.0	20473	100
DynaGro	CX06517	109.1	.	.	98	0.27	1.8	18.8	24067	100
DeKalb	DK69-43RR2	103.1	.	.	103	0.26	1.3	18.5	22760	100
<i>Average</i>		119.7 ⁴	178.0	184.2	100	0.28	1.6	16.2	24044	100
<i>LSD at 10% Level</i>		18.5	N.S. ⁵	N.S.	N.S.	0.04	0.2	1.1	2444	-
<i>Std. Err. of Entry Mean</i>		7.8	3.4	8.9	2	0.02	0.1	0.5	1026	-

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 12.9%, 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: April 19, 2007, replanted May 11, 2007.

Harvested: August 18, 2007.

Seeding Rate: 28,000 seeds/acre in 30" rows.

Soil Type: Waynesboro loam.

Soil Test: P = High, K = Very High, and pH = 5.4.

Fertilization: 24 lb N, 60 lb P₂O₅, and 160 lb K₂O/acre as preplant; 200 lb N/acre as sidedress.

Previous Crop: Soybean.

Management: Moldboard plowed, disked, and rototilled; Atrazine, Lasso, and one cultivation used for weed control; Warrior used for insect control; irrigated 21.0 inches.

Test conducted by J. Gassett, G. Ware, and J. Stubbs.

Blairsville, Georgia: Short-Season Corn Hybrid Performance, 2007, Nonirrigated

Company or Brand Name	Hybrid Name	Yield ¹		Ears/100 Plants	Ear Grain Weight	Grain Quality ²	Grain Moist. ³	Plant Pop.	Erect Plants	
		2007	2-Year Avg							3-Year Avg
		-----	bu/acre	-----	no.	lb	rating	%	no.	%
Pioneer	33M57(Hx1/LL/RR2)	241.6	.	.	117	0.63	1.3	20.2	23929	78
Pioneer	33V16(YGCB/RR2)	232.3	.	.	112	0.60	1.5	18.8	24453	100
DeKalb	DKC61-73 RR2/YGCG	227.2	.	.	113	0.53	1.5	17.7	26407	100
AgraTech	695RR	204.0	.	.	107	0.65	1.3	18.6	21054	88
Croplan Genetics	6831TS	188.9	.	.	101	0.55	1.0	19.1	24200	100
DeKalb	DK64-27RR2	178.8	.	.	115	0.46	1.5	18.0	23612	100
<i>Average</i>		212.1 ⁴	.	.	111	0.57	1.3	18.7	23942	94
<i>LSD at 10% Level</i>		21.9			8	0.07	N.S. ⁵	0.6	1254	N.S.
<i>Std. Err. of Entry Mean</i>		8.8			3	0.03	0.2	0.2	506	11

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 8.3%, and df for EMS = 15.
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 7, 2007.
 Harvested: October 3, 2007.
 Seeding Rate: 26,900 seeds/acre in 30" rows.
 Soil Type: Arkaqua loam.
 Soil Test: P = High, K = High, and pH = 6.3.
 Fertilization: 55 lb N, 110 lb P₂O₅, and 165 lb K₂O/acre as preplant; 153 lb N/acre as sidedress.
 Previous Crop: Soybeans.
 Management: Moldboard plowed and disked; Aatrex, Imazine, Banvil and two cultivations used for weed control.

Test conducted by J. Gassett, G. Ware, and H. Garrett.

Blairsville, Georgia: Mid-Season Corn Hybrid Performance, 2007, Nonirrigated

Company or Brand Name	Hybrid Name	Yield ¹		Ears/100 Plants	Ear Grain Weight	Grain Quality ²	Grain Moist. ³	Plant Pop.	Erect Plants	
		2007	2-Year Avg							3-Year Avg
		-----	bu/acre	-----	no.	lb	rating	%	no.	%
Pioneer	31P41	266.5	234.0	.	107	0.74	1.1	21.1	24684	100
Pioneer	31G65(RR2)	255.2	.	.	149	0.50	1.3	19.7	24596	100
Pioneer	31N28(YGCB)	252.7	.	.	110	0.67	1.4	21.0	25058	100
Pioneer	31D58	251.1	233.6	.	111	0.71	1.1	20.8	23413	98
AgraTech	897RR	244.6	.	.	113	0.68	1.1	24.7	24442	100
SS	SS783RR2YGCB	231.3	.	.	115	0.59	1.4	21.0	25168	100
Croplan Genetics	851TS	226.8	219.6	.	104	0.62	1.5	18.3	25027	100
DynaGro	58P60	221.5	.	.	128	0.57	1.4	20.5	22264	74
DeKalb	DKC66-23 RR2/YGCB	209.8	.	.	112	0.54	1.1	18.4	24684	98
AgraTech	7711RR	201.9	.	.	121	0.55	1.3	18.9	21692	100
<i>Average</i>		236.1 ⁴	229.1	.	117	0.62	1.3	20.4	24103	97
<i>LSD at 10% Level</i>		34.1	N.S. ⁵	.	8	0.08	N.S.	1.2	1914	N.S.
<i>Std. Err. of Entry Mean</i>		14.1	8.3	.	3	0.04	0.2	0.5	794	8

1. Yields calculated at 15.5% moisture.
2. Grain quality rating: 1 = excellent to 5 = poor.
3. Grain moisture at harvest.
4. CV = 12.0%, and df for EMS = 27.
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 7, 2007.
 Harvested: October 3, 2007.
 Seeding Rate: 25,500 seeds/acre in 30" rows.
 Soil Type: Arkaqua loam.
 Soil Test: P = High, K = High, and pH = 6.3.
 Fertilization: 55 lb N, 110 lb P₂O₅, and 165 lb K₂O/acre as preplant; 153 lb N/acre as sidedress.
 Previous Crop: Soybeans.
 Management: Moldboard plowed and disked; Aatrex, Imazine, Banvil and two cultivations used for weed control.

Test conducted by J. Gassett, G. Ware, and H. Garrett.